URBAN DESIGN COMMISSION APPLICATION

UDC

City of Madison
Planning Division
Madison Municipal Building, Suite 017
215 Martin Luther King, Jr. Blvd.
P.O. Box 2985
Madison, WI 53701-2985
(608) 266-4635

FOR OFFICE USE ONLY:

Date Received _____ ☐ Initial Submittal

Paid _____ ☐ Revised Submittal

Complete all sections of this application, including the desired meeting date and the action requested. If your project requires both UDC and Land Use application submittals, a completed Land Use Application and accompanying submittal materials are also required to be submitted.

If you need an interpreter, translator, materials in alternate formats or other accommodations to access these forms, please call the Planning Division at (608) 266-4635.

Si necesita interprete, traductor, materiales en diferentes formatos, u otro tipo de ayuda para acceder a estos formularios, por favor llame al (608) 266-4635.

Yog tias koj xav tau ib tug neeg txhais lus, tus neeg txhais ntawv, los sis xav tau cov ntaub ntawv ua lwm hom ntawv los sis lwm cov kev pab kom paub txog cov lus qhia no, thov hu rau Koog Npaj (Planning Division) (608) 266-4635.

1. Project Information

Address (list all addresses on the project site): 1904 Bartillon Drive (formerly 1902 Bartillon)

Title: City of Madison - Dane County - Men's Homeless Shelter

2. Application Type (check all that apply) and Requested Date

UDC meeting date requested 1/10/2024

☑ New development ☐ Alteration to an existing or previously-approved development

☐ Informational ☐ Initial Approval ☑ Final Approval

3. Project Type

☐ Project in an Urban Design District

☐ Project in the Downtown Core District (DC), Urban Mixed-Use District (UMX), or Mixed-Use Center District (MXC)

☐ Project in the Suburban Employment Center District (SEC), Campus Institutional District (CI), or Employment Campus District (EC)

☐ Planned Development (PD)

- ☐ General Development Plan (GDP)
- ☐ Specific Implementation Plan (SIP)

☐ Planned Multi-Use Site or Residential Building Complex

Signage

☐ Comprehensive Design Review (CDR)

☐ Modifications of Height, Area, and Setback

☐ Sign Exceptions as noted in Sec. 31.043(3), MGO

Other

☑ Please specify

Public Project

4. Applicant, Agent, and Property Owner Information

Applicant name Carl Miller — Company Dimension IV Madison Design Group

Street address 6515 Grand Teton Plaza; Suite 120 — City/State/Zip Madison, WI 53719

Telephone 608.829.4457 — Email cmiller@dimensionivmadison.com

Project contact person Jon Evans — Company City of Madison; Engineering Division

Street address 210 Martin Luther King Jr. Blvd, Room 115 — City/State/Zip Madison, WI 53703

Telephone 608.243.5893 — Email jevans@cityofmadison.com

Property owner (if not applicant) City of Madison

Street address 210 Martin Luther King Jr. Blvd — City/State/Zip Madison, WI 53703

Telephone _____ — Email _____

URBAN DESIGN COMMISSION APPROVAL PROCESS

UDC

Introduction

The City of Madison's Urban Design Commission (UDC) has been created to:

- Encourage and promote high quality in the design of new buildings, developments, remodeling, and additions so as to maintain and improve the established standards of property values within the City.
- Foster civic pride in the beauty and nobler assets of the City, and in all other ways possible assure a functionally efficient and visually attractive City in the future.

Types of Approvals

There are three types of requests considered by the UDC:

- Informational Presentation. A request for an Informational Presentation to the UDC may be requested prior to seeking any approvals to obtain early feedback and direction before undertaking detailed design efforts. Applicants should provide details on the context of the site, design concept, site and building plans, and other relevant information to help the UDC understand the proposal and provide feedback. (Does not apply to CDR's or Signage Modification requests)
- Initial Approval. Applicants may, at their discretion, request Initial Approval of a proposal by presenting preliminary design information. As part of their review, the Commission will provide feedback on the design information that should be addressed at Final Approval stage.
- Final Approval. Applicants may request Final Approval of a proposal by presenting all final project details. Recommendations or concerns expressed by the UDC in the Initial Approval must be addressed at this time.

Presentations to the Commission

The Urban Design Commission meets virtually via Zoom, typically on the second and fourth Wednesdays of each month at 4:30 p.m. Applicant presentations are strongly encouraged, although not required. Prior to the meeting, each individual speaker is required to complete an online registration form to speak at the meeting. A link to complete the online registration will be provided by staff prior to the meeting. Please note that individual presentations will be limited to a **maximum of three (3) minutes**. The pooling of time may be utilized to provide one speaker more time to present, however the additional time will be based on the number of registrants from the applicant team, i.e. two (2) applicant registrants = six (6) minutes for one (1) speaker.

Primarily, the UDC is interested in the appearance and design quality of projects. Emphasis should be given to the site plan, landscape plan, lighting plan, building elevations, exterior building materials, color scheme, and graphics. Please note that presentation slides, in a PDF file format, are required to be submitted **the Friday before** the UDC meeting.

URBAN DESIGN DEVELOPMENT PLANS CHECKLIST

UDC

The items listed below are minimum application requirements for the type of approval indicated. Please note that the UDC and/or staff may require additional information in order to have a complete understanding of the project.

1. Informational Presentation

- ☐ Locator Map
- ☐ Letter of Intent (If the project is within an Urban Design District, a summary of how the development proposal addresses the district criteria is required)
- ☐ Contextual site information, including photographs and layout of adjacent buildings/structures
- ☐ Site Plan
- ☐ Two-dimensional (2D) images of proposed buildings or structures.

Providing additional information beyond these minimums may generate a greater level of feedback from the Commission.

Requirements for All Plan Sheets

1. Title block
2. Sheet number
3. North arrow
4. Scale, both written and graphic
5. Date
6. Fully dimensioned plans, scaled at 1"= 40' or larger

*** All plans must be legible, including the full-sized landscape and lighting plans (if required)*

2. Initial Approval

- ☑ Locator Map
- ☑ Letter of Intent (If the project is within a Urban Design District, a summary of how the development proposal addresses the district criteria is required)
- ☑ Contextual site information, including photographs and layout of adjacent buildings/structures
- ☑ Site Plan showing location of existing and proposed buildings, walks, drives, bike lanes, bike parking, and existing trees over 18" diameter
- ☑ Landscape Plan and Plant List (*must be legible*)
- ☑ Building Elevations in **both** black & white and color for all building sides, including material and color callouts
- ☑ PD text and Letter of Intent (if applicable)

Providing additional information beyond these minimums may generate a greater level of feedback from the Commission.

3. Final Approval

All the requirements of the Initial Approval (see above), **plus**:

- ☑ Grading Plan
- ☑ Lighting Plan, including fixture cut sheets and photometrics plan (must be legible)
- ☑ Utility/HVAC equipment location and screening details (with a rooftop plan if roof-mounted)
- ☑ Site Plan showing site amenities, fencing, trash, bike parking, etc. (if applicable)
- ☑ PD text and Letter of Intent (if applicable)
- ☑ Samples of the exterior building materials
- ☑ Proposed sign areas and types (if applicable)

4. Signage Approval *(Comprehensive Design Review (CDR), Sign Modifications, and Sign Exceptions (per Sec. 31.043(3))*

- ☐ Locator Map
- ☐ Letter of Intent (a summary of how the proposed signage is consistent with the CDR or Signage Modifications criteria is required)
- ☐ Contextual site information, including photographs of existing signage both on site and within proximity to the project site
- ☐ Site Plan showing the location of existing signage and proposed signage, dimensioned signage setbacks, sidewalks, driveways, and right-of-ways
- ☐ Proposed signage graphics (fully dimensioned, scaled drawings, including materials and colors, and night view)
- ☐ Perspective renderings (emphasis on pedestrian/automobile scale viewsheds)
- ☐ Illustration of the proposed signage that meets Ch. 31, MGO compared to what is being requested
- ☐ Graphic of the proposed signage as it relates to what the Ch. 31, MGO would permit

5. Required Submittal Materials

☑ **Application Form**

- A completed application form is required for each UDC appearance. For projects also requiring Plan Commission approval, applicants must also have submitted an accepted application for Plan Commission consideration prior to obtaining any formal action (Initial or Final Approval) from the UDC.

☑ **Letter of Intent**

- If the project is within an Urban Design District, a summary of how the development proposal addresses the district criteria is required.
- For signage applications, a summary of how the proposed signage is consistent with the applicable Comprehensive Design Review (CDR) or Signage Modification review criteria is required.

☑ **Development Plans** (Refer to checklist on Page 4 for plan details)

N/A ☐ **Filing Fee** (Refer to Section 7 (below) for a list of application fees by request type)

☑ **Electronic Submittal**

- Complete electronic submittals must be received prior to the application deadline before an application will be scheduled for a UDC meeting. Late materials will not be accepted. All plans must be legible and scalable when reduced. Individual PDF files of each item submitted should be submitted via email to UDCapplications@cityofmadison.com. The email must include the project address, project name, and applicant name.
- Email Size Limits. Note that an individual email cannot exceed 20MB and it is the responsibility of the applicant to present files in a manner that can be accepted. Applicants who are unable to provide the materials electronically should contact the Planning Division at (608) 266-4635 for assistance.

☑ **Notification to the District Alder**

- Please provide an email to the District Alder notifying them that you are filing this UDC application. Please send this as early in the process as possible and provide a copy of that email with the submitted application.

6. Applicant Declarations

1. Prior to submitting this application, the applicant is required to discuss the proposed project with Urban Design Commission staff. This application was discussed with Jessica Vaughn,Lisa McNabola,Jenny Kirchgatter,Kevin Fircho on 6/1/2023.

2. The applicant attests that all required materials are included in this submittal and understands that if any required information is not provided by the application deadline, the application will not be placed on an Urban Design Commission agenda for consideration.

Name of applicant Carl Miller Relationship to property Architect

Authorizing signature of property owner Jonathan Evans Digitally signed by Jonathan Evans Date 12/11/2023

7. Application Filing Fees

Fee payments are due by the submittal date. Payments received after the submittal deadline may result in the submittal being scheduled for the next application review cycle. Fees may be paid in-person, via US Mail, or City drop box. If mailed, please mail to: *City of Madison Building Inspection, P.O. Box 2984, Madison, WI 53701-2984*. The City's drop box is located outside the Municipal Building at 215 Martin Luther King, Jr. Blvd. on the E Doty Street side of the building. Please make checks payable to *City Treasurer*, and include a completed application form or cover letter indicating the project location and applicant information with all checks mailed or submitted via the City's drop box.

Please consult the schedule below for the appropriate fee for your request:

☐ Urban Design Districts: $350 *(per §33.24(6) MGO)*.

☐ Minor Alteration in the Downtown Core District (DC) or Urban Mixed-Use District (UMX) : $150 *(per §33.24(6)(b) MGO)*

☐ Comprehensive Design Review: $500 *(per §31.041(3)(d)(1)(a) MGO)*

☐ Minor Alteration to a Comprehensive Sign Plan: $100 *(per §31.041(3)(d)(1)(c) MGO)*

☐ All other sign requests to the Urban Design Commission, including, but not limited to: appeals from the decisions of the Zoning Administrator, requests for Sign Modifications (of height, area, and setback), and additional sign code approvals: $300 *(per §31.041(3)(d)(2) MGO)*

A filing fee is not required for the following project applications if part of the combined application process involving both Urban Design Commission and Plan Commission:

— Project in the Downtown Core District (DC), Urban Mixed-Use District (UMX), or Mixed-Use Center District (MXC)

— Project in the Suburban Employment Center District (SEC), Campus Institutional District (CI), or Employment Campus District (EC)

— Planned Development (PD): General Development Plan (GDP) and/or Specific Implementation Plan (SIP)

— Planned Multi-Use Site or Residential Building Complex

DIMENSION IV
Madison Design Group
architecture · interior design · planning

December 11th, 2023

City of Madison - Planning Division
Madison Municipal Building, Suite 017
215 Martin Luther King Jr. Blvd.
P.O. Box 2985
Madison, WI 53701-2985

RE: City of Madison – Dane County – Men's Homeless Shelter
UDC Final Approval Letter of Intent – 1904 Bartillon Drive (formerly 1902 Bartillon Drive)

Dear Urban Design Commission:

Please see the attached initial approval submittal packet for the City of Madison and Dane County Men's Homeless Shelter. This packet outlines the design for the development of a new purpose-built homeless shelter located on Bartillon Drive.

Project & Site:
The proposed project consists of a single, two-story building with a 22,625 GSF footprint, totaling 43,605 sf. There is a 42' easement along Stoughton Road.

Zoning:
The proposed project is a permitted use as a mission house in Commercial Center District (CC) zoning. Additionally, the project is in a Transit Oriented Development Overlay (TOD) district.

Thank you for your time and consideration. We look forward to the opportunity to present our project on January 10th, 2024.

Regards,
-Carl Miller

6515 Grand Teton Plaza, Suite 120
Madison, Wisconsin 53719
p 608.829.4444
f 608.829.4445

dimensionivmadison.com

Project Team:

Owner:	City of Madison / Dane County partnership City of Madison Madison Municipal Building 215 Martin Luther King Jr. Blvd. Madison, WI 53703 Jon Evans (jevans@cityofmadison.com) Bryan Cooper (bcooper@cityofmadison.com) Dane County City-County Building, Room 426 210 Martin Luther King Jr. Blvd. Madison, WI 53703 Casey Becker (becker.casey@countyofdane.com)
Operator:	Porchlight 306 North Brooks St. Madison, WI 53715 Karla Thennes (kthennes@porchlight.org) Kim Sutter (ksutter@porchlight.org)
Architect:	Dimension IV Madison Design Group 6515 Grand Teton Plaza; Suite 120 Madison, WI 53719 Carl Miller (cmiller@dimensionivmadison.com) Jim Gersich (jgersich@dimensionivmadison.com)
Civil Engineer & Landscape Architecture:	Snyder and Associates 5010 Voges Road Madison, WI 53718 Scott Anderson (sanderson@snyder-associates.com) Andy Meessmann (ameessmann@snyder-associates.com)

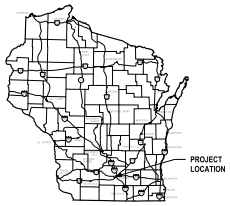
DIMENSION IV
Madison Design Group
architecture · interior design · planning
6515 Grand Teton Plaza, Suite 120, Madison, Wisconsin 53719
p608.829.4444 f608.829.4445 dimensionivmadison.com

CITY OF MADISON - DANE COUNTY - MEN'S HOMELESS SHELTER

1904 BARTILLON DRIVE,
MADISON, WI

NEIGHBORHOOD MAP

CITY MAP



STATE MAP

PROJECT/BUILDING DATA

NEW 2 STORY - HOMELESS SHELTER SERVING PRIMARILY MEN

	WITH PATIOS	WITHOUT PATIOS
BUILDING AREAS		
TOTAL BUILDING AREA	**= 51,095 GSF**	**= 43,605 GSF**
FIRST FLOOR AREA	= 22,625 GSF	= 22,625 GSF
FIRST FLOOR PATIO AREA	= 3,795 GSF	
FIRST FLOOR TOTAL AREA	**= 26,420 GSF**	**= 22,605 GSF**
SECOND FLOOR AREA	= 20,980 GSF	= 20,980 GSF
SECOND FLOOR PATIO AREA	= 3,695 GSF	
SECOND FLOOR TOTAL AREA	**= 24,675 GSF**	**= 20,980 GSF**

SHEET LIST

Architecture : **Dimension IV - Madison Design Group**
6515 Grand Teton Plaza, Suite 120, Madison, WI 53719
p: 608.829.4444 www.dimensionivmadison.com

Trauma Informed Design Consultant : **Shopworks Architecture**
301 West 45th Avenue, Denver, Colorado
p: 303.433.4094 www.shopworksarc.com

Civil Engineering & Landscape Architecture: **Snyder and Associates**
5010 Voges Rd, Madison, WI 53718
p: 608.838.0444 www.snyder-associates.com

Structural Engineering: **Oneida Total Integrated Enterprises**
5100 Eastpark Blvd Suite 300, Madison, WI 53718
p: 608.243.6470 www.otie.com

Mechanical, Electrical, Plumbing and Fire Protection: **IBC Engineering ATTN: Dennis Hess**
N8 W22195 Johnson Dr, Suite 180, Waukesha, WI 53186
p: 262.549.1190 www.ibcengineering.com

Technology, Security Design : **Convergent Technologies Design Group**
448 W 37th Street, 7D, New York NY 10018
p: 646.475.5116 www.ctdginc.com

Food and Laundry Design : **Stewart Design Associates**
5325 Wall Street, Suite 2600, Madison, WI 53718
p: 608.271.8554 www.stewdesign.com

LEED and Sustainability : **HabLab**
Madison, WI 53703
www.hablab.llc

Project Owner: **City of Madison & Dane County Partnership**
251 Martin Luther King Jr. Blvd. Madison, WI 53703
p: 608.266.4071 www.cityofmadison.com

Shelter Operator: **Porchlight**
306 North Brooks St., Madison, WI 53719
p: 608.257.2534 www.porchlightinc.org

12/11/2023

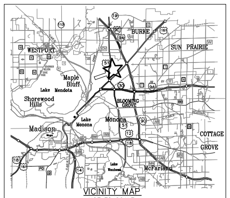
UDC FINAL APPROVAL
PROJECT # 22061

G1

ALTA/NSPS LAND TITLE SURVEY

PART OF LOTS 6, 7, AND 8, KINSMAN BUSINESS PARK, AS RECORDED IN VOLUME 56–74B OF PLATS, ON PAGE 218, AS DOCUMENT NUMBER 2166104, DANE COUNTY REGISTRY, LOCATED IN THE SOUTHWEST QUARTER AND THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 28, TOWNSHIP 08 NORTH, RANGE 10 EAST, CITY OF MADISON, DANE COUNTY, WISCONSIN

0 30 60 90
SCALE : ONE INCH = THIRTY FEET

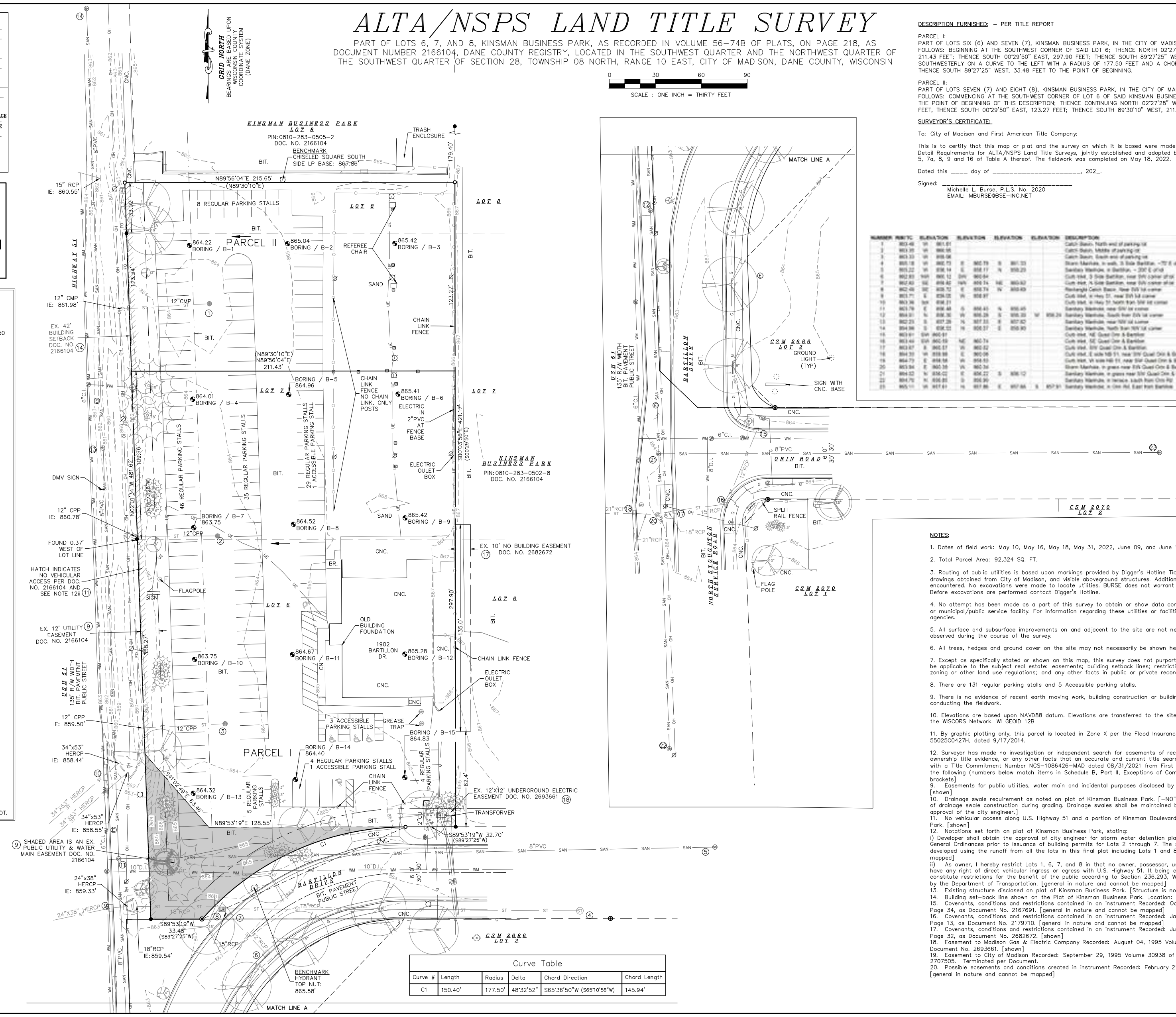


DIGGERS HOTLINE
Dial 811 or (800) 242-8511
www.DiggersHotline.com

LEGEND

- 1.25" IRON PIPE FOUND
- 3/4" SOLID IRON ROD FOUND
- 3/4" X 18" SOLID IRON RE-ROD SET, WT. 1.50 lbs./ft.
- ×851.2 SPOT ELEVATION
- OH — OVERHEAD UTILITY WIRE
- G — BURIED GAS LINE
- WM — WATER MAIN
- SAN — SANITARY SEWER
- ST — STORM SEWER
- UT — BURIED TELEPHONE
- UE — BURIED ELECTRIC
- UTV — BURIED CABLE ACCESS TELEVISION LINE
- FO — BURIED FIBER OPTIC
- WATER VALVE
- GAS VALVE
- GAS METER
- AC AIR CONDITIONER
- TV PEDESTAL
- ELECTRIC PEDESTAL
- UTILITY POLE
- LIGHT POLE
- GROUND LIGHT
- TELEPHONE PEDESTAL
- FIRE HYDRANT
- SIGN
- GUY WIRE
- MAILBOX
- BOLLARD
- STORM SEWER INLET
- ELECTRIC MANHOLE
- TELEPHONE MANHOLE
- STORM SEWER MANHOLE
- ROUND CATCH BASIN
- STORM SEWER STRUCTURE
- SANITARY SEWER MANHOLE
- DECIDUOUS TREE (DBH IN INCHES)
- CONIFEROUS TREE (DBH IN INCHES)
- ( ) INDICATES RECORDED AS

DISTANCES ARE MEASURED TO THE NEAREST HUNDREDTH OF A FOOT. BUILDINGS ARE MEASURED TO THE NEAREST TENTH OF A FOOT.



Curve Table

Curve #	Length	Radius	Delta	Chord Direction	Chord Length
C1	150.40'	177.50'	48°32'52"	S65°36'50"W (S65°10'56"W)	145.94'

DESCRIPTION FURNISHED: – PER TITLE REPORT

PARCEL I:
PART OF LOTS SIX (6) AND SEVEN (7), KINSMAN BUSINESS PARK, IN THE CITY OF MADISON, DANE COUNTY, WISCONSIN, MORE FULLY DESCRIBED AS FOLLOWS: BEGINNING AT THE SOUTHWEST CORNER OF SAID LOT 6; THENCE NORTH 02°27'28" WEST, 358.28 FEET; THENCE NORTH 89°30'10" EAST, 211.43 FEET; THENCE SOUTH 00°29'50" EAST, 297.90 FEET; THENCE SOUTH 89°27'25" WEST, 32.70 FEET TO A POINT OF CURVE; THENCE SOUTHWESTERLY ON A CURVE TO THE LEFT WITH A RADIUS OF 177.50 FEET AND A CHORD WHICH BEARS SOUTH 65°10'56" WEST, 145.94 FEET; THENCE SOUTH 89°27'25" WEST, 33.48 FEET TO THE POINT OF BEGINNING.

PARCEL II:
PART OF LOTS SEVEN (7) AND EIGHT (8), KINSMAN BUSINESS PARK, IN THE CITY OF MADISON, DANE COUNTY, WISCONSIN, MORE FULLY DESCRIBED AS FOLLOWS: COMMENCING AT THE SOUTHWEST CORNER OF LOT 6 OF SAID KINSMAN BUSINESS PARK; THENCE NORTH 02°27'28" WEST, 358.28 FEET TO THE POINT OF BEGINNING OF THIS DESCRIPTION; THENCE CONTINUING NORTH 02°27'28" WEST, 123.34 FEET; THENCE NORTH 89°30'10" EAST, 215.65 FEET, THENCE SOUTH 00°29'50" EAST, 123.27 FEET; THENCE SOUTH 89°30'10" WEST, 211.43 FEET TO THE POINT OF BEGINNING.

SURVEYOR'S CERTIFICATE:

To: City of Madison and First American Title Company:

This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2021 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes Items 1, 2, 3, 4, 5, 7a, 8, 9 and 16 of Table A thereof. The fieldwork was completed on May 18, 2022.

Dated this ____ day of ______________________, 202_.

Signed: ________________________________
Michelle L. Burse, P.L.S. No. 2020
EMAIL: MBURSE@BSE-INC.NET

WISCONSIN
MICHELLE L. BURSE
S-2020
Sun Prairie
WI
LAND SURVEYOR

NUMBER	RIM/TC	ELEVATION		ELEVATION		ELEVATION		ELEVATION	DESCRIPTION
1	[illegible]	[illegible]	[illegible]						Catch Basin, North end of parking lot
2	[illegible]	[illegible]	[illegible]						Catch Basin, Middle of parking lot
3	[illegible]	[illegible]	[illegible]						Catch Basin, South end of parking lot
4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				[illegible]
7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				[illegible]
10	[illegible]	[illegible]	[illegible]						[illegible]
11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible] [illegible]	[illegible]
13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
15	[illegible]	[illegible]	[illegible]						[illegible]
16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				[illegible]
17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				[illegible]
18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				[illegible]
19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				[illegible]
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				[illegible]
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible] [illegible]	[illegible]

NOTES:

1. Dates of field work: May 10, May 16, May 18, May 31, 2022, June 09, and June 17, 2022.

2. Total Parcel Area: 92,324 SQ. FT.

3. Routing of public utilities is based upon markings provided by Digger's Hotline Ticket Number 2022203424, 20222224529, drawings obtained from City of Madison, and visible aboveground structures. Additional buried utilities/structures may be encountered. No excavations were made to locate utilities. BURSE does not warrant the location of underground utilities. Before excavations are performed contact Digger's Hotline.

4. No attempt has been made as a part of this survey to obtain or show data concerning condition or capacity of any utility or municipal/public service facility. For information regarding these utilities or facilities, please contact the appropriate agencies.

5. All surface and subsurface improvements on and adjacent to the site are not necessarily shown hereon, as they were not observed during the course of the survey.

6. All trees, hedges and ground cover on the site may not necessarily be shown hereon.

7. Except as specifically stated or shown on this map, this survey does not purport to reflect any of the following which may be applicable to the subject real estate: easements; building setback lines; restrictive covenants; subdivision restrictions; zoning or other land use regulations; and any other facts in public or private records.

8. There are 131 regular parking stalls and 5 Accessible parking stalls.

9. There is no evidence of recent earth moving work, building construction or building additions observed in the process of conducting the fieldwork.

10. Elevations are based upon NAVD88 datum. Elevations are transferred to the site utilizing RTK GPS surveying while observing the WISCORS Network. WI GEOID 12B

11. By graphic plotting only, this parcel is located in Zone X per the Flood Insurance Rate Map Community Panel Number 55025C0427H, dated 9/17/2014.

12. Surveyor has made no investigation or independent search for easements of record, encumbrances, restrictive covenants, ownership title evidence, or any other facts that an accurate and current title search may disclose. Surveyor was provided with a Title Commitment Number NCS–1086426–MAD dated 08/31/2021 from First American Title Company, which references the following (numbers below match items in Schedule B, Part II, Exceptions of Commitment): [Surveyor's notes are in brackets]
9. Easements for public utilities, water main and incidental purposes disclosed by the plat of Kinsman Business Park. [shown]
10. Drainage swale requirement as noted on plat of Kinsman Business Park. [–NOTE FROM PLAT. Arrows indicate the direction of drainage swale construction during grading. Drainage swales shall be maintained by the lot owner unless modified with the approval of the city engineer.]
11. No vehicular access along U.S. Highway 51 and a portion of Kinsman Boulevard as disclosed by plat of Kinsman Business Park. [shown]
12. Notations set forth on plat of Kinsman Business Park, stating:
i) Developer shall obtain the approval of city engineer for storm water detention plan in accordance with Chap. 37 of Madison General Ordinances prior to issuance of building permits for Lots 2 through 7. The storm water detention plan shall be developed using the runoff from all the lots in this final plat including Lots 1 and 8. [general in nature and cannot be mapped]
ii) As owner, I hereby restrict Lots 1, 6, 7, and 8 in that no owner, possessor, user, nor licensee, nor other person shall have any right of direct vehicular ingress or egress with U.S. Highway 51. It being expressly intended that this restriction shall constitute restrictions for the benefit of the public according to Section 236.293, Wisconsin Statutes, and shall be enforceable by the Department of Transportation. [general in nature and cannot be mapped]
13. Existing structure disclosed on plat of Kinsman Business Park. [Structure is no longer on site]
14. Building set–back line shown on the Plat of Kinsman Business Park. Location: Westerly 42 feet. [shown]
15. Covenants, conditions and restrictions contained in an instrument Recorded: October 18, 1989 Volume 13440 of Records, Page 34, as Document No. 2167691. [general in nature and cannot be mapped]
16. Covenants, conditions and restrictions contained in an instrument Recorded: January 5, 1990 Volume 13728 of Records, Page 13, as Document No. 2179710. [general in nature and cannot be mapped]
17. Covenants, conditions and restrictions contained in an instrument Recorded: June 19, 1995 Volume 30088 of Records, Page 32, as Document No. 2682672. [shown]
18. Easement to Madison Gas & Electric Company Recorded: August 04, 1995 Volume 30465 of Records, Page 71, as Document No. 2693661. [shown]
19. Easement to City of Madison Recorded: September 29, 1995 Volume 30938 of Records, Page 25, as Document No. 2707505. Terminated per Document.
20. Possible easements and conditions created in instrument Recorded: February 21, 1997, as Document No. 2833760. [general in nature and cannot be mapped]

SURVEYED FOR :
City of Madison

SURVEYED BY :
Burse
surveying & engineering Inc.
2801 International Lane, Suite 101
Madison, WI 53704 608.250.9263
Fax: 608.250.9266
email: mburse@bse-inc.com
www.bursesurveyengr.com

Date: June 17, 2022
Plot View: ALTA
\BSE2586\dwg\Survey\BSE2586 v2018.dwg

View from Bartillon Dr. SE

View from N Stoughton Rd. SW

View down Bartillon Dr. SW

General View from Bartillon Dr. S

View from N Stoughton Rd. NW

View down Bartillon Dr. SE

Aerial view Looking East

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CITY CONTRACT # 9358
CITY PROJECT # 13346

CITY OF MADISON - DANE COUNTY - MEN'S HOMELESS SHELTER

1904 BARTILLON DRIVE,
MADISON, WI

UDC FINAL APPROVAL

DATE OF ISSUE: 12/11/2023

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PROJECT # 22061

SITE PHOTOS

G2

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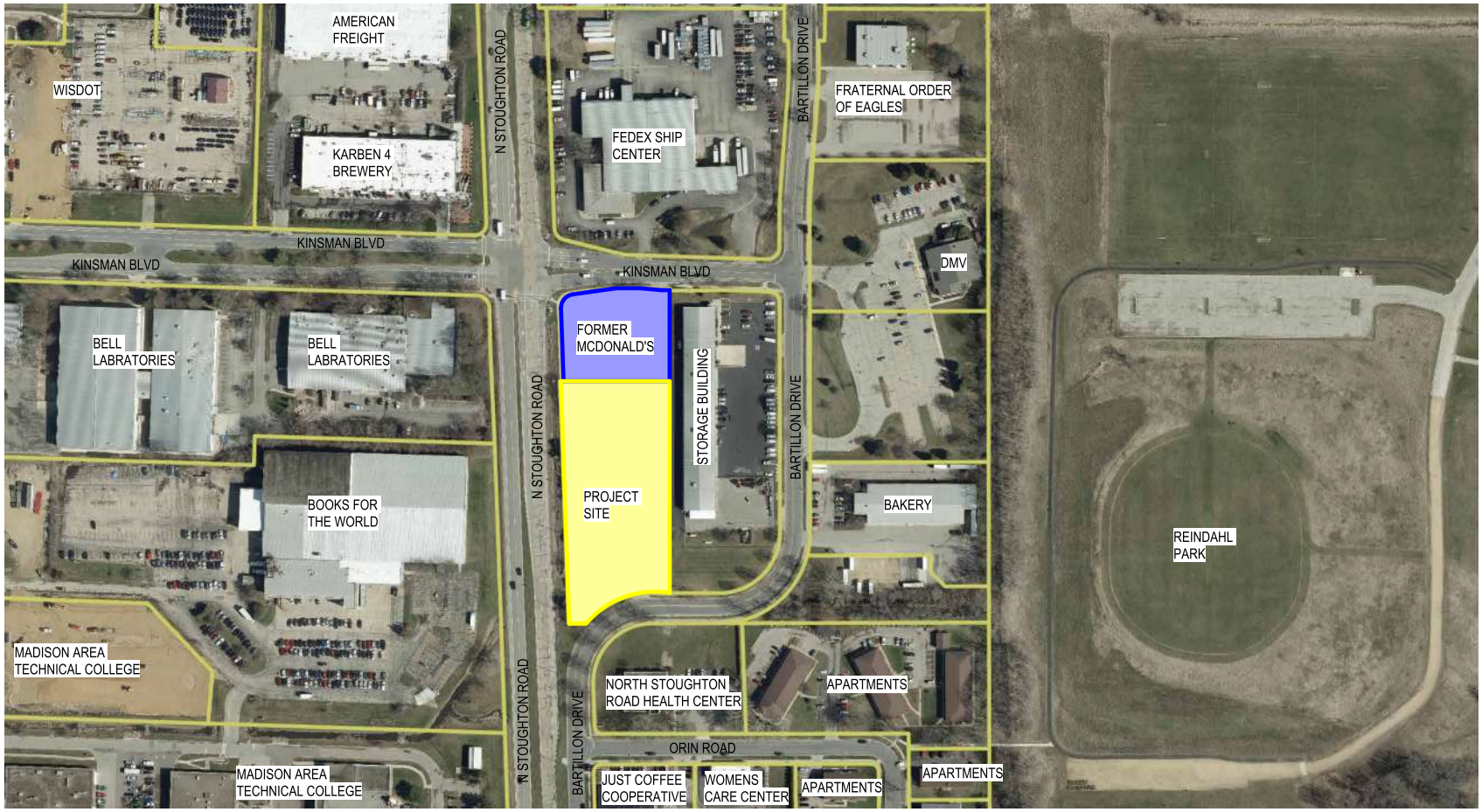

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SITE PLAN CONTEXT

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NORTH STOUGHTON HEALTH CENTER

APARTMENTS

BAKERY

STORAGE BUILDING

DMV

FRATERNAL ORDER OF EAGLES

FEDEX SHIP CENTER

FORMER MCDONALDS

KARBEN 4 BREWERY

BELL LABS

BOOKS FOR THE WORLD

MATC

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ADJACENT BUILDINGS

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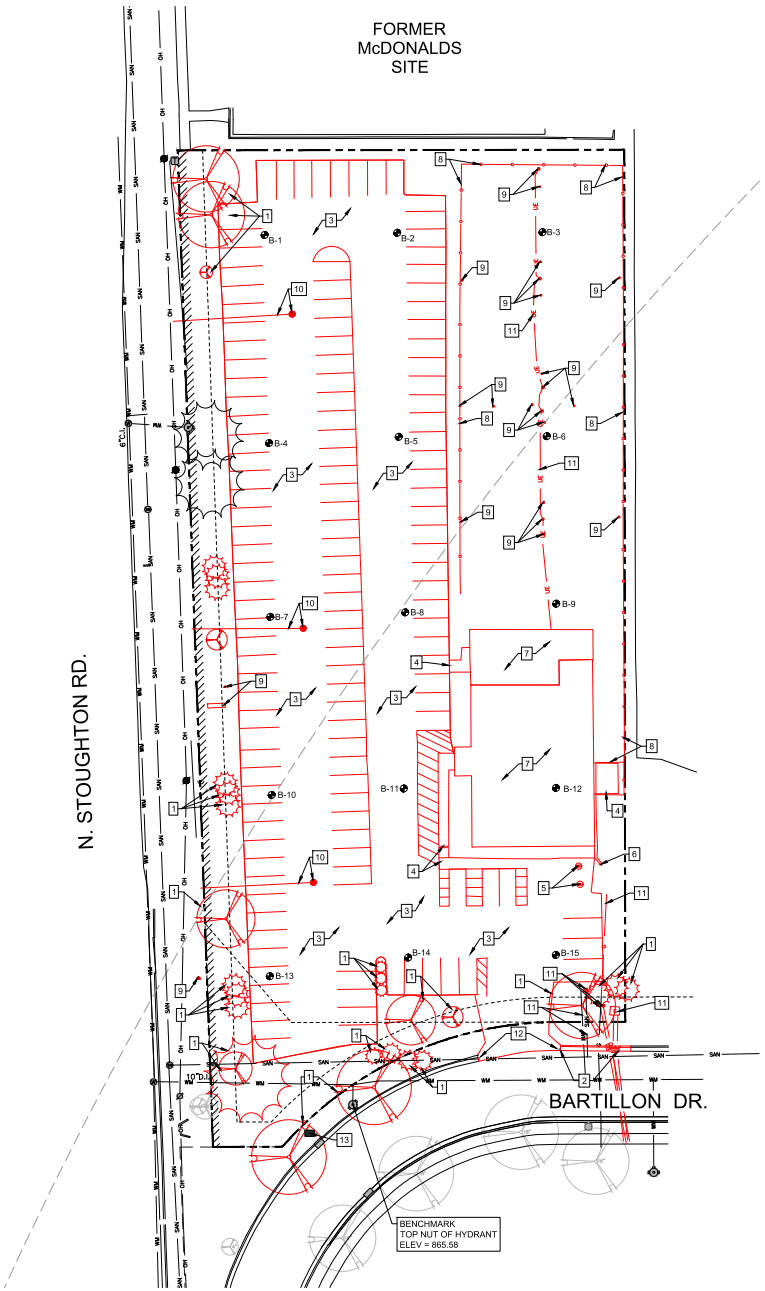

PLAN NOTES:

CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS PRIOR TO COMMENCING WORK ON SITE

CONTRACTOR SHALL CALL FOR UTILITY LOCATIONS PRIOR TO COMMENCING WORK ON SITE

EXISTING SITE CONDITIONS BASED ON ALTA SURVEY BY:
BURSE SURVEYING & ENGINEERING
PHONE: 608-250-9263
DATED: JUNE 17, 2022

CONTRACTOR SHALL PROVIDE ALL NECESSARY EROSION CONTROL MEASURES PER TOWN, VILLAGE , COUNTY AND STATE SPECIFICATIONS. ALL MEASURES ARE TO BE IN PLACE PRIOR TO COMMENCING WORK ON SITE. ALL MEASURES SHALL BE MAINTAINED UNTIL SITE SOILS ARE STABILIZED. SEE SHEET SWP1- SWP4 FOR MORE INFORMATION

CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS FOR DEMOLITION AND CONSTRUCTION PRIOR TO COMMENCING ANY WORK ON SITE.

ALL DAMAGED ASPHALT ON BARTILLON DRIVE SHALL BE PATCHED TO THE CENTERLINE OF THE ROAD WITH A MINIMUM 10' WIDTH.

ALL EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO DEMOLITION ACTIVITIES.

EXISTING ASPHALT REMOVAL SHALL BE COORDINATED WITH GEOTHERMAL CONTRACTOR.

SITE PLAN KEYNOTES

1. REMOVE EXISTING TREES AND SHRUBS IN THEIR ENTIRETY, CLEAR AND GRUB
2. EXISTING CURB HEADS TO BE REMOVED FOR NEW DRIVEWAY APPROACH
3. REMOVE EXISTING ASPHALT PAVEMENT - COORDINATE WITH GEOTHERMAL CONTRACTOR
4. REMOVE EXISTING CONCRETE SIDEWALKS
5. REMOVE EXISTING GREASE INTERCEPTOR
6. REMOVE EXISTING RETAINING WALL
7. REMOVE EXISTING BUILDING AND CONCRETE PATIO INCLUDING FOOTINGS / FOUNDATION
8. REMOVE EXISTING FENCE AND POSTS ENTIRELY
9. REMOVE MISC. SITE OBJECTS (LIGHT POLES, FLAG POLE, SIGN, ETC.)
10. REMOVE EXISTING STORM INLETS AND CONNECTED PIPES
11. ABANDON EXISTING UTILITIES PER CITY OF MADISON STANDARDS
12. REMOVE EXISTING DRIVEWAY APPROACH AND INFILL WITH NEW CONCRETE CURB & GUTTER
13. REMOVE CASTING AND REPLACE WITH SOLID CASTING PER CITY STANDARDS

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PROJECT # 122.1182.30

MENS HOMELESS SHELTER
1904 BARTILLON DR.
MADISON, WI 53704

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UDC	12/08/2023

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EX. SITE & DEMO. PLAN

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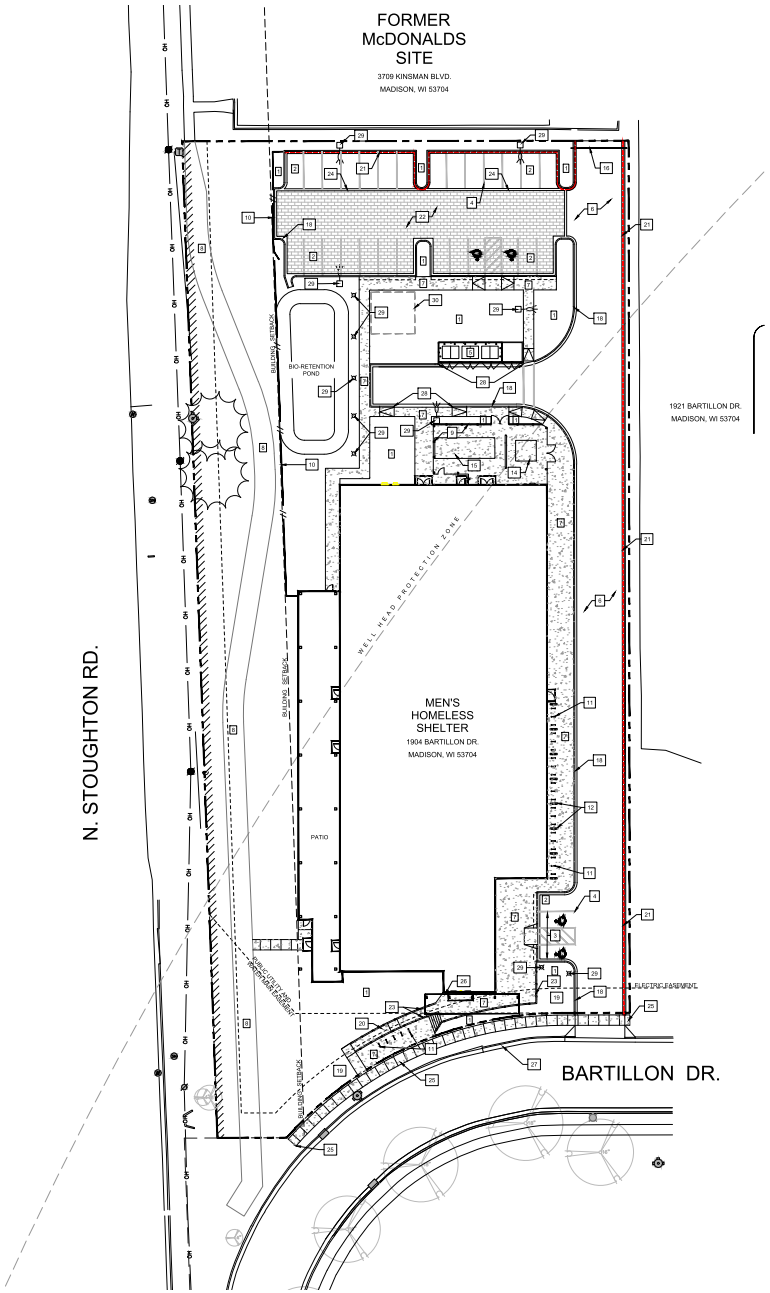

SITE PLAN KEYNOTES

1. LANDSCAPE AREA.
2. OFF-STREET PARKING STALLS
   STRIPING - 4" WIDE STALL LINES, USE HIGH VISIBILITY YELLOW PAINT.
   SPACES PROVIDED
   (25) 9'-0" X 18'-0" GENERAL PARKING
   (2) 9'-0" X 20'-0" ACCESSIBLE PARKING
   (1) 9'-0" X 20'-0" LOADING ZONE
3. A.D.A. ACCESSIBLE PARKING SPACE WITH LOADING ZONE. PROVIDE APPROPRIATE STRIPING AND PAVEMENT MARKINGS.
4. 4" WIDE, HIGH VISIBILITY, PAVEMENT STRIPING, LANE MARKINGS AND TEXT. COLOR: YELLOW
   PAINT SHALL MEET CITY OF MADISON SPECIFICATIONS
5. DUMPSTER ENCLOSURE AREA WITH 6" DEPTH CONCRETE PAD
6. 6" DEPTH (MIN.) CONCRETE PAVEMENT WITH #3 REBAR 3' O.C.
7. 5" DEPTH CONCRETE SIDEWALK / PATIO
8. 10' WIDE HARD SURFACE PEDESTRIAN / BIKE PATH - UNDER SEPARATE CONTRACT BY THE CITY OF MADISON (DESIGN BY OTHERS)
9. 6' HIGH TYPE 1 METAL FENCE WITH DOUBLE GATE
10. 6' HIGH TYPE 2 METAL FENCE
11. BIKE RACK LOCATIONS, SPACING PER CITY OF MADISON BIKE RACK REQUIREMENTS
12. COLUMNS FOR ROOF SUPPORT, SEE ARCHITECTURAL PLANS
13. CONCRETE PATIO AREA
14. TRANSFORMER LOCATION
15. BACKUP GENERATOR
16. GATE LOCATION
17. EMERGENCY SERVICE KNOX BOX
18. STANDARD 18" CONCRETE CURB
19. POTENTIAL ART LOCATION
20. PEDESTRIAN RAMP
21. 18" CONCRETE REJECT CURB
22. PERMEABLE PAVERS, SEE DETAIL 6 ON SHEET C 601
23. PROPOSED RAILING, BY OTHERS
24. CONCRETE RIBBON CURB, SEE DETAIL ON C 601
25. STANDARD CITY OF MADISON SIDEWALK
26. ENTRY CANOPY
27. ± 40 LF INFILL / MATCH INTO EXISTING CURB AND GUTTER
28. DRIVEWAY SECTION OF CURB AND GUTTER
29. SITE LIGHT POLES - BOLLARD STYLE AND STREET LIGHT STYLE
30. FUTURE PAVILLION

NOTE:

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES ON AND ADJACENT TO THE SITE PRIOR TO THE START OF THE PROJECT.

RADII ARE FROM FACE OF CURB

DIMENSIONS ARE FROM FACE OF CURB

SITE INFORMATION

ZONING DISTRICT: CC - COMMERCIAL CENTER

TOTAL SITE AREA: 92,324 SF / 2.12 ACRES

TOTAL DISTURBED AREA: 96,785 SF / 2.22 ACRES

PAVED AREA: 19,185 SF

BUILDING AREA: 26,402 SF

FUTURE PAVILION AREA: 420 SF

SIDEWALK / PICNIC AREA: 7,546 SF

PARKING STALL COUNT

STANDARD PARKING:	29 STALLS
ADA PARKING	2 STALLS WITH LOADING ZONE
TRUCK PARKING	1 UNLOADING STALL

ADA PARKING STALL REQUIREMENTS:
ADA STALLS REQUIRED ON SITE = 1
ADA STALLS SHOWN ON THE PLANS = 2 (1 VAN)

BIKE PARKING STALL COUNT

BIKE PARKING:	42 STALLS (COVERED)
BIKE PARKING:	10 STALLS (UNCOVERED)

BUILDING HEIGHTS - 5 STORIES / 78' MAXIMUM

OVERALL HEIGHT 28'-0" TOP OF SECOND FLOOR ROOF

BUILDING SETBACKS

SEE THE CITY OF MADISON CODE OF ORDINANCES
CHAPTER 28.068 - COMMERCIAL CENTER DISTRICT

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MENS HOMELESS SHELTER

1904 BARTILLON DR.
MADISON, WI 53704

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SITE PLAN

C 300

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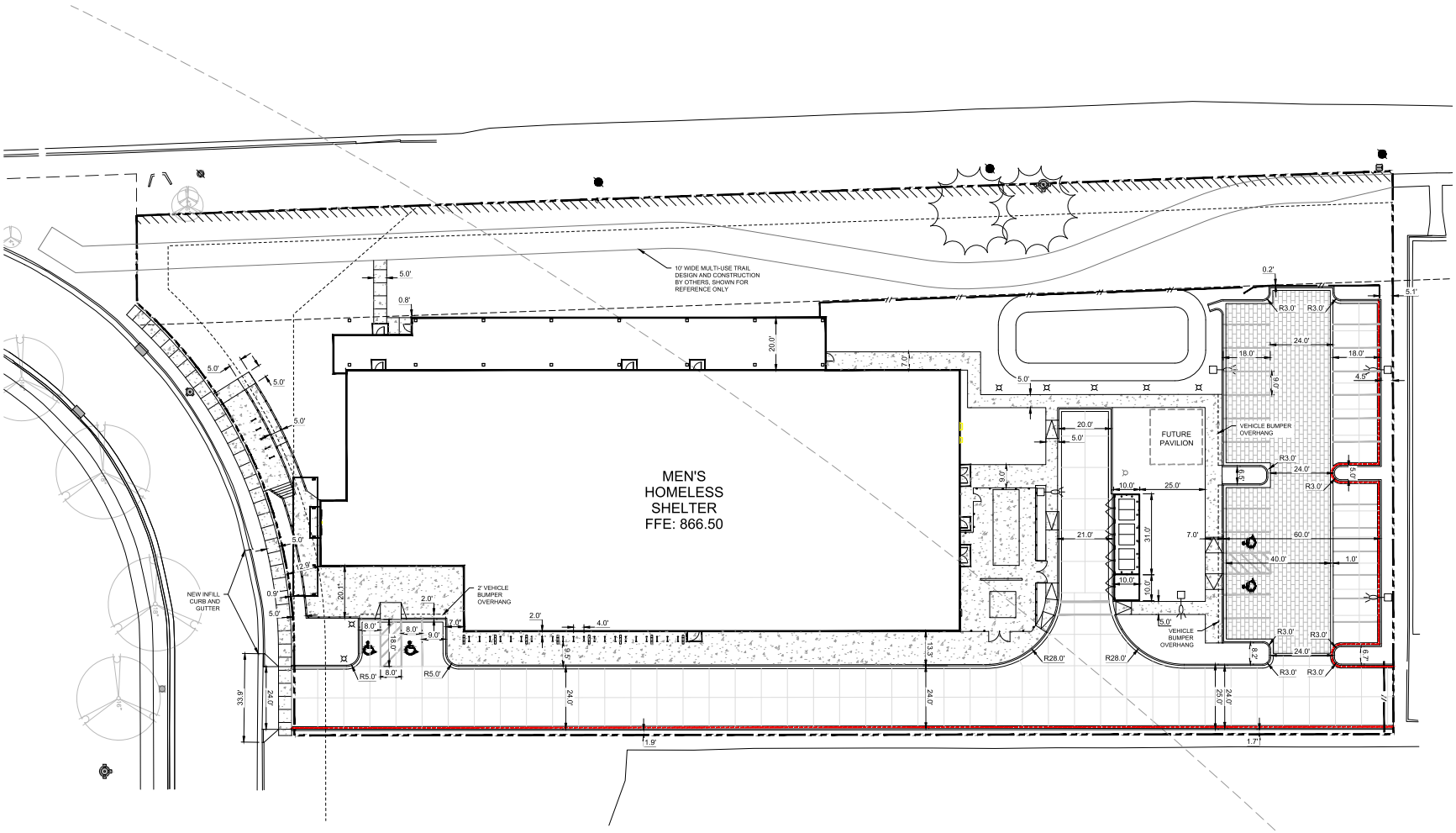

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DIMENSION SITE PLAN

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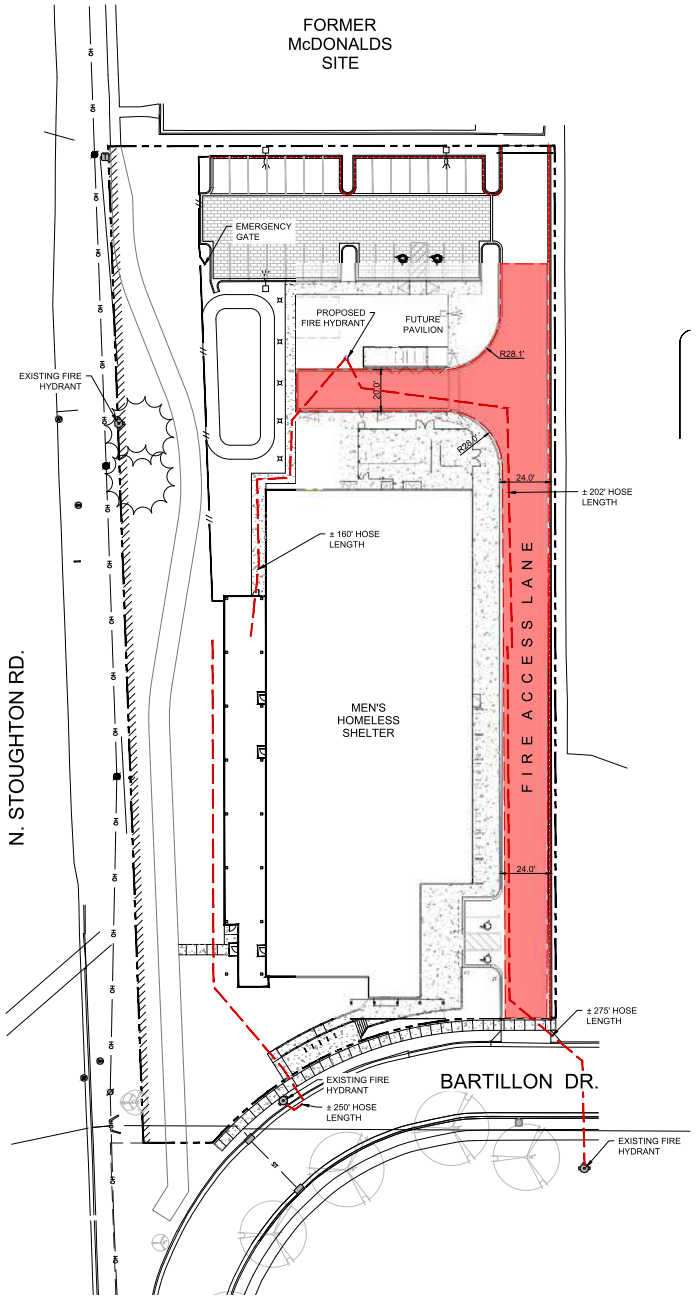

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FIRE ACCESS PLAN

C 310

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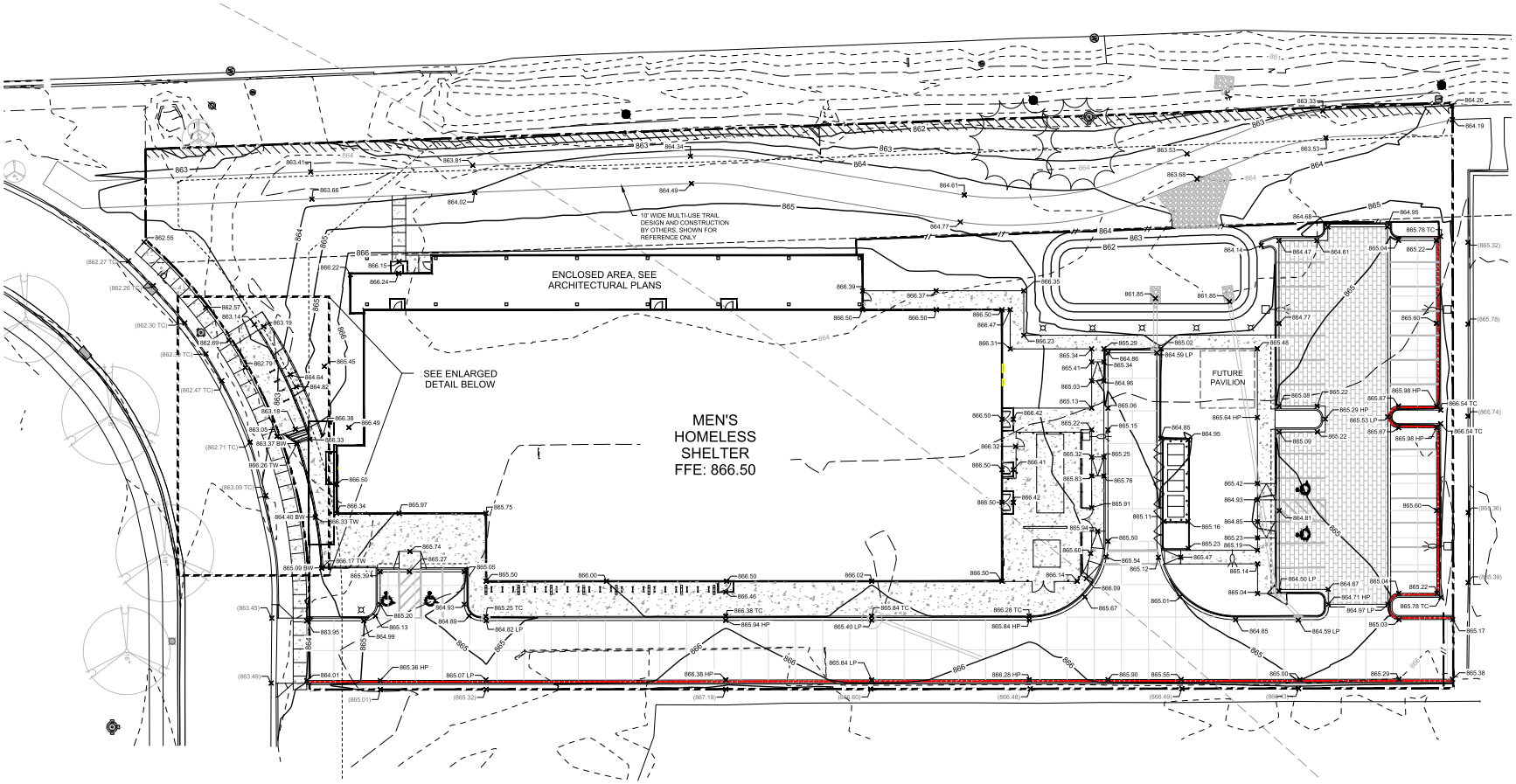

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GRADING NOTES:

870.50 = PROPOSED GRADE SPOT ELEVATION

(870.50) = EXISTING GRADE SPOT ELEVATION

HP = HIGH POINT FOR DRAINAGE

LP = LOW POINT FOR DRAINAGE

TW = TOP OF WALL

BW = BOTTOM OF WALL

BC = BACK OF CURB

ALL LANDSCAPE AND SOD AREAS SHALL HAVE POSITIVE DRAINAGE

NOTE FOR GRADING CONTRACTOR:

ANY PROPERTY IRONS THAT ARE DISTURBED IN THE GRADING PROCESS SHALL BE RESET BY A LICENSED LAND SURVEYOR AT NO ADDITIONAL COST TO THE OWNER.

NOTES:

ENGINEER TO OBTAIN RIGHT-OF-WAY EXCAVATION PERMIT PRIOR TO BEGINNING SITE WORK.

CONTRACTOR SHALL LOCATE ALL UTILITIES WHICH MAY AFFECT THIS WORK NOTIFY THE OWNER OF ANY POTENTIAL CONFLICTS.

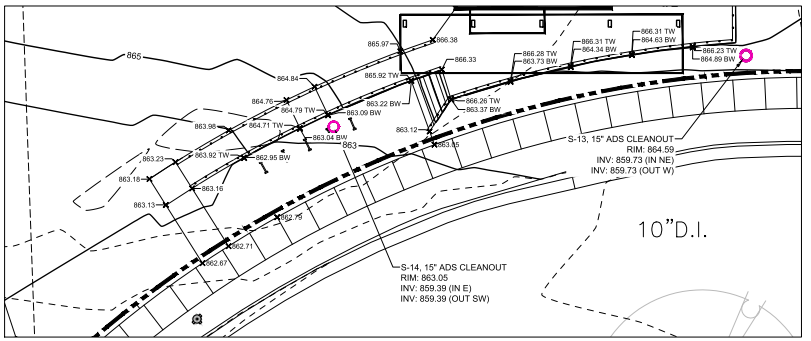
CONTRACTOR SHALL VERIFY ALL EXISTING AND PROPOSED ELEVATIONS PRIOR TO START OF CONSTRUCTION. VERIFY CRITICAL ELEVATIONS TO ENSURE CONFORMANCE WITH GRADING PLAN, PARTICULARLY WITH WALK, AND/OR PAVEMENTS TO REMAIN. MEET EXISTING GRADES ALONG STREETS, PROPERTY LINES, AND DRIVEWAY ENTRANCES. RESTORE ALL EXISTING PAVEMENTS THAT REMAIN TO THEIR ORIGINAL, IF NOT BETTER CONDITION. NOTIFY OWNER OF ANY CONFLICTS.

AREAS NOT PAVED AND TO BE LANDSCAPED SHALL RECEIVE MINIMUM OF 4" DEPTH COMPACTED TOPSOIL.

CONTRACTOR SHALL COORDINATE GRADING AND INSTALLATION OF DRIVES IN R.O.W. WITH APPROPRIATE GOVERNMENT AGENCIES. OBTAIN APPROPRIATE PERMITS FOR GRADING AND DRAINAGE IN ALL R.O.W.

REFER TO OWNERS SPECIFICATIONS FOR CURB, APPROACH, AND CONCRETE PROFILES AS WELL AS ADDITIONAL SITE STANDARDS RELATED TO THIS PROJECT.

EXCAVATOR IS RESPONSIBLE FOR ALL EROSION CONTROL INSPECTIONS



ENLARGED FRONT ENTRY DETAIL

SCALE : 1" = 10'

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GRADING PLAN

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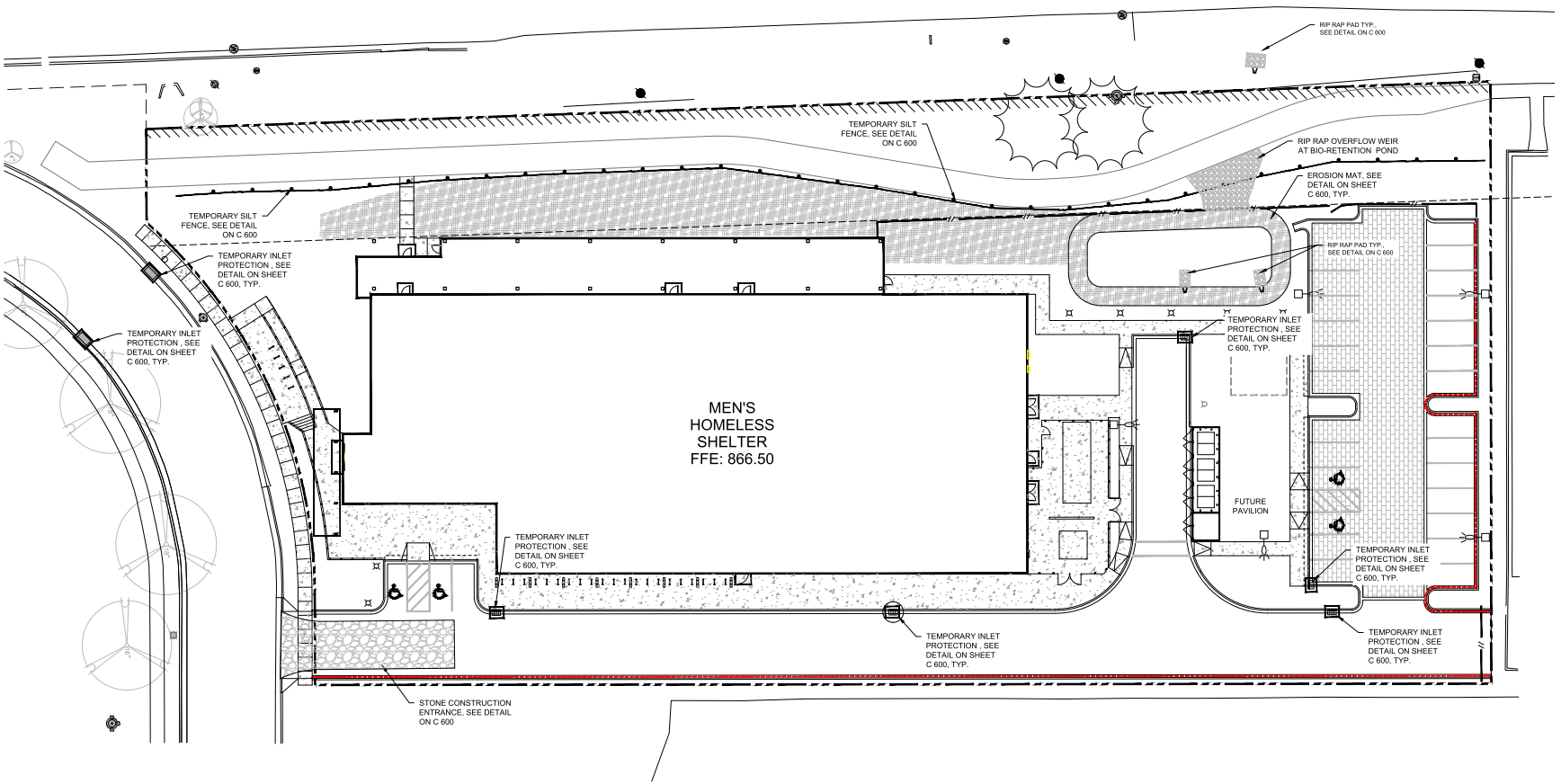

CONSTRUCTION SEQUENCE

*INSTALL EROSION/SEDIMENT CONTROL MEASURES

*INSTALL STORMWATER MANAGEMENT SEDIMENT BASINS

*INSTALL STORM SEWER

*INSTALL STRUCTURES

*INSTALL PAVEMENTS

*INSTALL LAWN/ LANDSCAPE

*FLUSH STORM SEWER

*REMOVE EROSION CONTROL MEASURES ONLY AFTER ALL PAVEMENTS HAVE BEEN INSTALLED AND ALL SOILS HAVE BEEN STABILIZED

EROSION CONTROL NOTES

ALL SILT FENCE MUST BE INSTALLED BY THE CONTRACTOR AND INSPECTED BY THE CITY OF MADISON PRIOR TO ANY SITE WORK.

SITE EROSION CONTROL MEASURES MUST BE IN PLACE AT ALL TIMES. SHOULD DEVICES BE REMOVED FOR WORK ACCESS, THEY SHALL BE REINSTALLED AT THE END OF EACH WORK DAY UNTIL PAVEMENTS HAVE BEEN INSTALLED AND ALL LANDSCAPE AREAS HAVE BEEN MULCHED AND SODDED. SEEDED AREAS MUST EXHIBIT MINIMUM OF 70% SOIL COVERAGE.

CONTRACTOR'S RESPONSIBILITY FOR EROSION CONTROL AND LEED SUBMITTALS

1. FOLLOW LEED INSTRUCTIONS IN LEED NCV4.0 REFERENCE GUIDE AND COMPLY WITH SECTION 31 25 00, EROSION CONTROL. COMPLY WITH EPA CONSTRUCTION GENERAL PERMIT (CGP) STANDARD 2012.
2. TRACK IMPLEMENTATION OF THE ESC PLAN BY KEEPING WRITTEN RECORDS AND DATE-STAMPED PHOTOGRAPHS. A NARRATIVE DESCRIPTION OF ESC PLAN IMPLEMENTATION SHOULD INCLUDE THE FOLLOWING:
   2.1. TIMING OF THE IMPLEMENTATION PLAN
   2.2. SPECIFIC CONTROL MEASURES APPLIED ON SITE
   2.3. MAINTENANCE PROTOCOLS USED TO ENSURE THE PROPER FUNCTION OF CONTROL MEASURES
3. CONTRACTOR IS RESPONSIBLE FOR COMPLETING THE LEED ONLINE CREDIT TEMPLATE AND ATTACHING THE NARRATIVE DESCRIBED ABOVE.
4. THE LEED PROJECT ADMINISTRATOR WILL DETERMINE IF THE INFORMATION PREPARED BY THE CONTRACTOR IS SATISFACTORY FOR GBCI SUBMISSION.

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EROSION CONTROL PLAN

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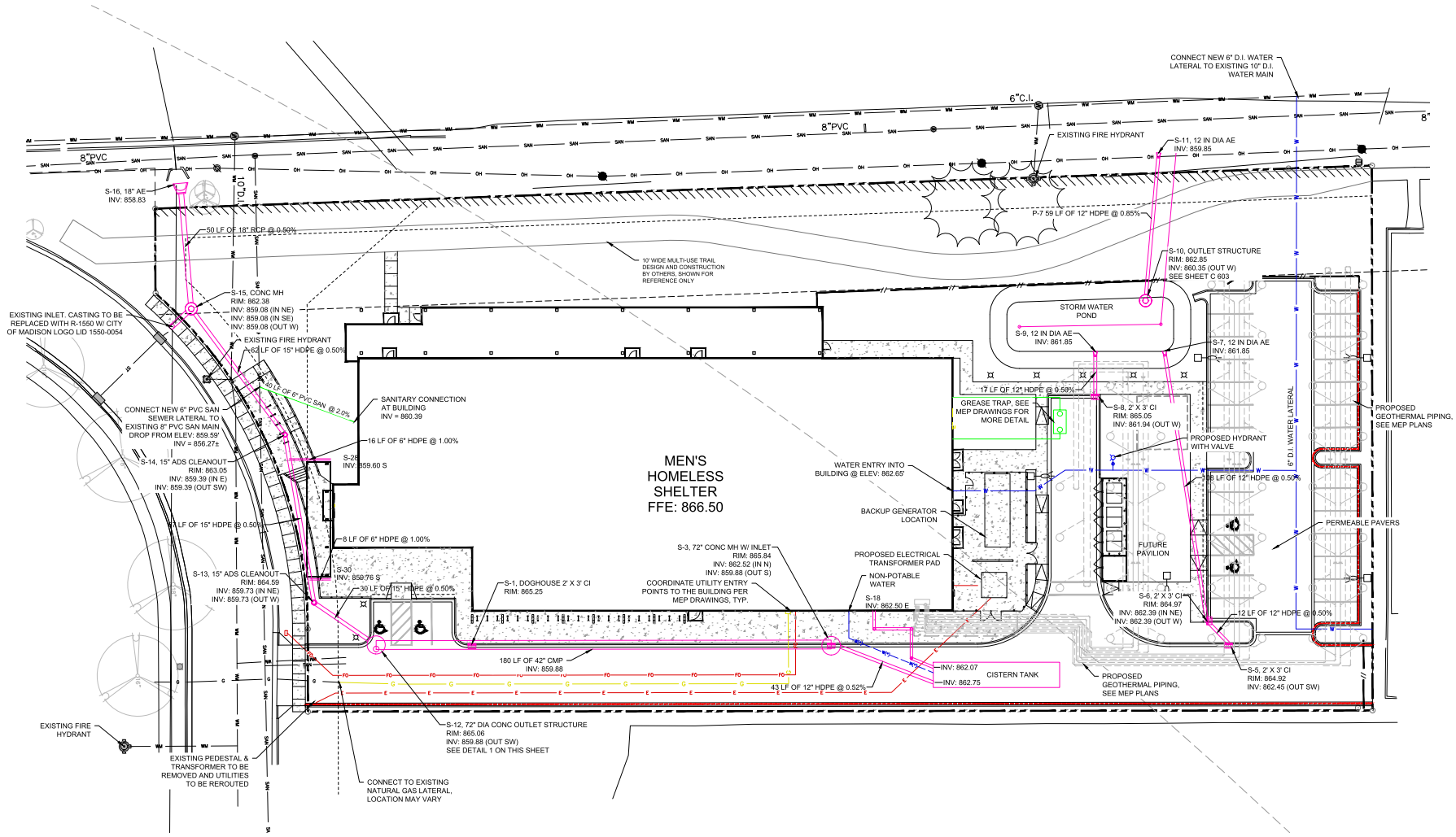

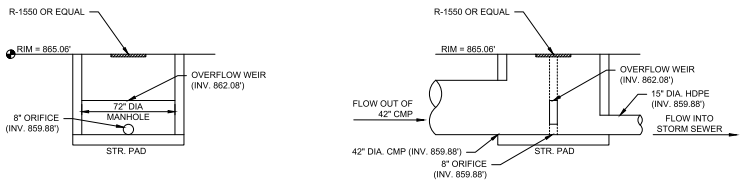

1 C500 OUTLET STRUCTURE S-12 DETAIL
SCALE: NTS

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UTILITY PLAN

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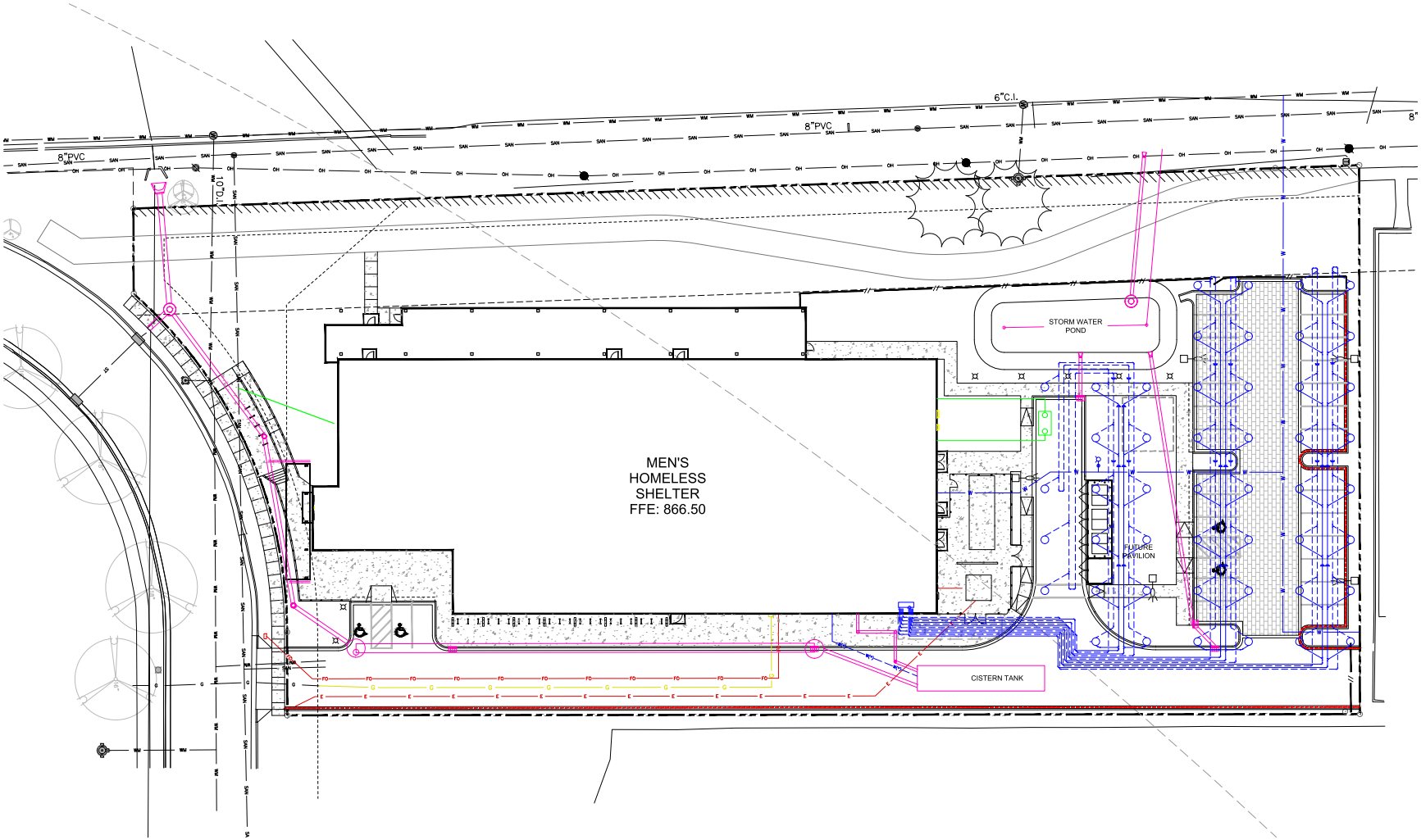

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PROJECT # 122.1182.30

MENS HOMELESS SHELTER

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MADISON, WI 53704

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PROJECT # 22061

GEOTHERMAL PLAN

C 501

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GENERAL LANDSCAPE NOTES

1. UTILITY WARNING: THE UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND/OR RECORDS OBTAINED. THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA. EITHER IN SERVICE OR ABANDONED. THE SURVEY FURTHER DOES NOT WARRANT THAT THE UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED.
2. NOTIFY UTILITY OWNERS PRIOR TO BEGINNING ANY CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR DETERMINING EXISTENCE, EXACT LOCATION AND DEPTH OF ALL UTILITIES. AVOID DAMAGE TO UTILITIES AND SERVICES DURING CONSTRUCTION. ANY DAMAGE DUE TO THE CONTRACTOR'S CARELESSNESS SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE. COORDINATE AND COOPERATE WITH UTILITY COMPANIES DURING CONSTRUCTION.
3. THE CONTRACTOR SHALL FOLLOW THE LANDSCAPE PLANS AS CLOSELY AS POSSIBLE. ANY SUBSTITUTION OR ALTERATION SHALL NOT BE ALLOWED WITHOUT APPROVAL OF THE OWNER'S REPRESENTATIVE. OVERALL PLANT QUANTITY AND QUALITY SHALL BE CONSISTENT WITH THE PLANS.
4. ALL PLANT MATERIAL SHALL AT LEAST MEET MINIMUM REQUIREMENTS SHOWN IN THE "AMERICAN STANDARDS FOR NURSERY STOCK" (ANSI Z60.1-LATEST EDITION).
5. MULCH SHALL NOT BE PLACED AROUND THE COLLAR OF SHRUB OR TREE. PROVIDE A MINIMUM OF 2" BETWEEN MULCH AND COLLAR OF SHRUB OR TREE.
6. ALL PLANT MATERIAL SHALL BE GROWN IN ZONE CAPABLE OF WITHSTANDING LOCAL CLIMATE AND GROWING CONDITIONS.
7. TREE OR SHRUB SHALL STAND PLUMB. DO NOT ALLOW AIR POCKETS TO FORM WHEN BACK FILLING.
8. LIVE PLANTS CAN BE PLANTED IN THE FIELD DURING THE GROWING SEASON FROM MAY 1 THROUGH OCTOBER 1. ANY SUGGESTED PLANTING TIMES NOT IN THIS WINDOW SHALL BE APPROVED BY LANDSCAPE ARCHITECT. IF PLANTING OCCURS OUTSIDE OF THIS WINDOW, ADDITIONAL MEASURES MAY NEED TO BE TAKEN (I.E. MULCH) TO ENSURE PLANT SURVIVAL. IN THESE INSTANCES, THE CONTRACT PRICE MAY NEED TO BE ADJUSTED ACCORDINGLY.
9. PLANTS SHOULD BE WATERED IN AFTER INSTALLATION TO ENSURE THEIR SURVIVAL. THIS TYPICALLY INVOLVES WATERING AT TIME OF INSTALLATION AND 2 TIMES WEEKLY FOR A ONE MONTH PERIOD OR UNTIL GROUND FREEZE UP IF NATURAL RAINFALLS ARE INSUFFICIENT. A SINGLE WATERING EVENT INVOLVES WATERING THE SOIL IN THE PLANTED AREAS TO THE POINT OF SATURATION BUT STOPPING SHORT OF SOIL DISPLACEMENT. SHOULD VERY DRY CONDITIONS DEVELOP WITHIN ONE YEAR OF PLANTING, ADDITIONAL WATERINGS MAY BE NECESSARY, CONSULTANT OR LANDSCAPE ARCHITECT WILL DETERMINE THIS AND CONTRACT PRICES MAY BE ADJUSTED TO ACCOMMODATE THIS ACTION.
10. ALL PLANT MATERIAL SHALL BE SPECIMEN QUALITY, HEALTHY, FREE OF DISEASE AND INSECTS AND SHALL HAVE HEALTHY, WELL-DEVELOPED ROOT SYSTEMS. PLANTS SHALL ALSO BE FREE FROM PHYSICAL DAMAGE OR OTHER CONDITIONS THAT WOULD PREVENT VIGOROUS GROWTH.
11. ALL PROPOSED PLANTS SHALL BE LOCATED AS SHOWN ON PLANS. ALL TREES TO BE PLANTED A MINIMUM DISTANCE OF 5 FEET FROM PAVEMENTS AND 6 FEET FROM ALL HYDRANTS.
12. CONTRACTOR IS RESPONSIBLE FOR PLANTS AWAITING INSTALLATION AND SHALL PROTECT THEM FROM INJURY AND THEFT.
13. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL PLANT QUANTITIES. GRAPHIC QUANTITIES TAKES PRECEDENCE OVER WRITTEN QUANTITIES.
14. THE OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO INSPECT AND TAG ALL PLANT MATERIAL PRIOR TO SHIPPING TO THE SITE. IN ALL CASES, THE OWNER'S REPRESENTATIVE MAY REJECT PLANT MATERIAL AT THE SITE IF MATERIAL IS DAMAGED, DISEASED, OR DECLINING IN HEALTH AT THE TIME OF ONSITE INSPECTIONS OR IF THE PLANT MATERIAL DOES NOT MEET THE MINIMUM SPECIFIED STANDARD IDENTIFIED ON THE PLANS. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE FOR INSPECTION AND APPROVAL OF ALL MATERIALS AND PRODUCTS PRIOR TO INSTALLATION.
15. THE OWNER'S REPRESENTATIVE MAY ELECT TO UPSIZE PLANT MATERIAL AT THEIR DISCRETION BASED ON SELECTION, AVAILABILITY, OR TO ENHANCE SPECIFIC AREAS OF THE PROJECT. THE CONTRACTOR SHALL VERIFY PLANT MATERIAL SIZES WITH OWNER'S REPRESENTATIVE PRIOR TO PURCHASING, SHIPPING OR STOCKING OF PLANT MATERIALS. SUBMIT CHANGE ORDER REQUEST TO OWNER'S REPRESENTATIVE FOR APPROVAL IF ADDITIONAL COST IS REQUESTED BY THE CONTRACTOR PRIOR TO INSTALLATION. RE-STOCKING CHARGES WILL NOT BE APPROVED IF THE CONTRACTOR FAILS TO SUBMIT A REQUEST FOR MATERIAL CHANGES.
16. THE CONTRACTOR SHALL WARRANTY ALL CONTRACTED WORK AND MATERIALS FOR A PERIOD OF ONE YEAR AFTER SUBSTANTIAL COMPLETION HAS BEEN ISSUED BY THE OWNER'S REPRESENTATIVE FOR THE ENTIRE PROJECT UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS.
17. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING POSITIVE DRAINAGE EXISTS IN ALL LANDSCAPE AREAS. SURFACE DRAINAGE ON LANDSCAPE AREAS SHALL NOT FLOW TOWARD STRUCTURES AND FOUNDATIONS. MAINTAIN SLOPE AWAY FROM FOUNDATIONS PER THE GEOTECHNICAL REPORT RECOMMENDATIONS. ALL LANDSCAPE AREAS BETWEEN WALKS AND CURBS SHALL DRAIN FREELY TO THE CURB UNLESS OTHERWISE IDENTIFIED ON THE GRADING PLAN. IN NO CASE SHALL THE GRADE, TURF THATCH, OR OTHER LANDSCAPE MATERIALS DAM WATER AGAINST WALKS. MINIMUM SLOPES ON LANDSCAPE AREAS SHALL BE 2%; MAXIMUM SLOPE SHALL BE 25% UNLESS SPECIFICALLY IDENTIFIED ON THE PLANS OR APPROVED BY THE OWNER'S REPRESENTATIVE.
18. PRIOR TO INSTALLATION OF PLANT MATERIALS, AREAS THAT HAVE BEEN COMPACTED OR DISTURBED BY CONSTRUCTION ACTIVITY SHALL BE THOROUGHLY LOOSENED TO A DEPTH OF 8" - 12".
19. ALL LANDSCAPED AREAS ARE TO RECEIVE ORGANIC SOIL PREPARATION PER RATE IDENTIFIED BY A SOIL TEST.
20. TREES SHALL NOT BE LOCATED IN DRAINAGE SWALES, DRAINAGE AREAS, OR UTILITY EASEMENTS. CONTACT OWNER'S REPRESENTATIVE FOR RELOCATION OF PLANTS IN QUESTIONABLE AREAS PRIOR TO INSTALLATION.
21. THE CENTER OF EVERGREEN TREES SHALL NOT BE PLACED CLOSER THAN 8' AND THE CENTER OF ORNAMENTAL TREES CLOSER THAN 6' FROM A SIDEWALK, STREET OR DRIVE LANE.
22. ALL EVERGREEN TREES SHALL BE FULLY BRANCHED TO THE GROUND AND SHALL NOT EXHIBIT SIGNS OF ACCELERATED GROWTH AS DETERMINED BY THE OWNER'S REPRESENTATIVE.
23. ALL TREES ARE TO BE STAKED AND GUYED PER DETAILS FOR A PERIOD OF 1 YEAR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING STAKES AT THE END OF 1 YEAR FROM ACCEPTANCE OF LANDSCAPE INSTALLATION BY THE OWNER'S REPRESENTATIVE. OBTAIN APPROVAL BY OWNER'S REPRESENTATIVE PRIOR TO REMOVAL.
24. ALL TREES INSTALLED ABOVE RETAINING WALLS UTILIZING GEO-GRID MUST BE HAND DUG TO PROTECT GEO-GRID. IF GEO-GRID MUST BE CUT TO INSTALL TREES, APPROVAL MUST BE GIVEN BY OWNER'S REPRESENTATIVE PRIOR TO DOING WORK.
25. ALL TREES IN SEED OR TURF AREAS SHALL RECEIVE MULCH RINGS. OBTAIN APPROVAL FROM OWNER'S REPRESENTATIVE FOR ANY TREES THAT WILL NOT BE MULCHED FOR EXCESSIVE MOISTURE REASONS.
26. EXISTING TURF AREAS THAT ARE DISTURBED DURING CONSTRUCTION, ESTABLISHMENT AND THE MAINTENANCE PERIOD SHALL BE RESTORED WITH NEW SOD TO MATCH EXISTING TURF SPECIES. DISTURBED NATIVE AREAS WHICH ARE TO REMAIN SHALL BE OVER SEEDED AND RESTORED WITH SPECIFIED SEED MIX.
27. WHEN COMPLETE, ALL GRADES SHALL BE WITHIN +/- 1/8" OF FINISHED GRADES AS SHOWN ON THE PLANS.
28. PRIOR TO THE PLACEMENT OF MULCH AND WEED FABRIC, A GRANULAR, PRE-EMERGENT, WEED CONTROL AGENT SHALL BE ADDED TO ALL PLANTING BEDS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTION, EXCEPT AROUND ORNAMENTAL GRASSES.
29. THE CONTRACTOR IS EXPECTED TO KNOW AND UNDERSTAND THE CITY AND COUNTY SPECIFICATIONS FOR LANDSCAPE. IN CASES OF DISCREPANCIES THE HIGHER OF THE TWO STANDARDS SHALL HAVE PRECEDENCE.
30. ALL TREES PLANTED WITHIN RIGHT-OF-WAY WILL INCLUDE CITY APPROVED ROOT BARRIERS.

CITY LANDSCAPE REGULATIONS

DEVELOPMENT REQUIREMENT:
REQUIRED LANDSCAPED AREAS SHALL BE CALCULATED BASED UPON THE TOTAL DEVELOPED AREA OF THE PROPERTY. DEVELOPED AREA IS DEFINED AS THAT AREA WITHIN A SINGLE CONTIGUOUS BOUNDARY WHICH IS MADE UP OF STRUCTURES, PARKING, DRIVEWAYS AND DOCKING/LOADING FACILITIES, BUT EXCLUDING THE AREA OF ANY BUILDING FOOTPRINT AT GRADE, LAND DESIGNATED FOR OPEN SPACE USES SUCH AS ATHLETIC FIELDS, AND UNDEVELOPED LAND AREA ON THE SAME ZONING LOT. THERE ARE THREE METHODS FOR CALCULATING LANDSCAPE POINTS DEPENDING ON THE SIZE OF THE LOT AND ZONING DISTRICT.

5 LANDSCAPE POINTS SHALL BE PROVIDED FOR EACH 300 SF OF DEVELOPED AREA.

TOTAL DEVELOPMENT AREA: 65,922 SF
TOTAL LANDSCAPE POINTS REQUIRED: 1,099

TOTAL POINTS PROVIDED: 1,153

DEVELOPMENT FRONTAGE:
REQUIREMENT:
1 OVERSTORY TREE AND 5 SHRUBS FOR EACH 30 LF OF LOT FRONTAGE

BARTILLON DRIVE:
125 LF / 30 = 5 TREES AND 21 SHRUBS

STOUGHTON ROAD (HWY 51)
482 LF / 30 = 17 TREES AND 80 SHRUBS

PROVIDED:
BARTILLON DRIVE:
1 OVERSTORY TREE
2 (4 ORNAMENTALS COUNTED AS 2 PER CODE)
3 TREES PROVIDED* AND 146 SHRUBS
*BUILDING FACADE'S ADJACENCY TO PUBLIC SIDEWALK AND MAXIMUM SETBACK OF 20' PER TOD ZONING CODE LIMIT PLANTING ANY ADDITIONAL TREES.

STOUGHTON ROAD (HWY 51):
1 (3 EVERGREENS COUNTED AS 1 PER CODE)
2 EXISTING EVERGREENS
9 CANOPY TREES
12 TREES* PROVIDED AND 0 SHRUBS**
*PROPOSED MULTI-USE TRAIL LIMITS TREE PLACEMENT
**PROJECT PROGRAM REQUIRES HIGH VISIBILITY TO BUILDING AND PATRONS - NO SHRUBS PROVIDED TO MAINTAIN UNOBSTRUCTED VISUAL SIGHTLINES.

INTERIOR PARKING LOT SCREENING:
REQUIREMENT:
1. 8% OF ASPHALT OR CONCRETE AREA OF THE PARKING LOT SHALL BE DEVOTED TO INTERIOR PLANTING ISLANDS, PENINSULAS, OR LANDSCAPE STRIPS.
   7,300 SF OF PARKING X 8% = 584 SF OF REQUIRED LANDSCAPE.
2. 1 CANOPY TREE FOR EVERY 160 SF OF REQUIRED LANDSCAPE AREA.
   584 / 160 = 3.65 TREES REQUIRED

PROVIDED: 2 TREES*
*GEOTHERMAL WELL FIELD LIMITS PLACEMENT OF CANOPY TREES AT PARKING LOT.

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN.
CALL DIGGERS HOTLINE
1-800-242-8511
TOLL FREE
WIS. STATUTE 182.0175 (1974)
REQUIRES MIN. OF 3 WORK DAYS
NOTICE BEFORE YOU EXCAVATE

PLANT SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	TYPE	POINTS	POINTS
TREES								
	CO2	3	Carya ovata	Shagbark Hickory	2.5" Cal.	B&B	35	105
	GD	2	Gymnocladus dioica 'Espresso'	Kentucky Coffeetree	2.5" Cal.	B&B	35	70
	QM	1	Quercus macrocarpa	Burr Oak	2.5" Cal.	B&B	35	35
	QV	3	Quercus velutina	Black Oak	2.5" Cal.	B&B	35	105
	SR	1	Syringa reticulata	Japanese Tree Lilac	2.5" Cal.	B&B	35	35
	UC	1	Ulmus x 'Cathedral'	Cathedral Elm	2.5" Cal.	B&B	35	35
EVERGREEN TREES								
	PB2	3	Picea mariana	Black Spruce	5` Ht.	B&B	35	105
	TB	12	Thuja occidentalis 'Brandon'	Brandon Arborvitae	4` Ht.	B&B	10	120
	TS2	9	Thuja occidentalis 'Skinner Dwarf'	Skinner Dwarf Arborvitae	4` Ht.	B&B	10	90
ORNAMENTAL TREES								
	AX	2	Amelanchier x grandiflora	Apple Serviceberry	1.5" Cal.	B&B	15	30
SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	POINTS	
SHRUBS								
	AR	9	Amelanchier alnifolia 'Regent'	Regent Serviceberry	3 gal.	Pot	3	27
	AM2	39	Arctostaphylos uva-ursi 'Massachusetts'	Massachusetts Kinnikinnick	3 gal.	Pot	3	117
	CF	6	Cornus sericea 'Farrow' TM	Arctic Fire Red Twig Dogwood	3 gal.	Pot	3	18
	DF	9	Dasiphora fruticosa	Bush Cinquefoil	3 gal.	Pot	3	27
	JB2	8	Juniperus horizontalis 'Blue Rug'	Blue Rug Juniper	3 gal.	Pot	4	32
GRASSES								
	BB	38	Bouteloua gracilis 'Blonde Ambition'	Blonde Ambition Blue Grama	1 gal.	Pot	2	76
	SP	26	Sporobolus heterolepis	Prairie Dropseed	1 gal.	Pot	2	52
SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS		
GREEN ROOF								
	GF2	1,664 sf	GREENROOF	GREENROOF	flat	SEE SPECFICATIONS		
GREEN WALL								
	PQ3	109 sf	Parthenocissus quinquefolia	Virgina Creeper	flat	Plug		
	PT3	110 sf	Parthenocissus tricuspidata	Boston Ivy	flat	Plug		
SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	TYPE		
GROUND COVERS								
	TB2	11,017 sf	50% FESCUE 50% BLUEGRASS BLEND	Sod	sod			
	NN2	14,173 sf	Native Seed	Native Seed	seed	Short Prairie for Medium Soils		
BIORETENTION PLUGS								
	BP	1,334	Bio Plugs	Bio Plugs	4"	Plug		

1,079 PROPOSED LANDSCAPE POINTS
70 EXISTING LANDSCAPE POINTS
1,149 TOTAL POINTS

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LANDSCAPE NOTES

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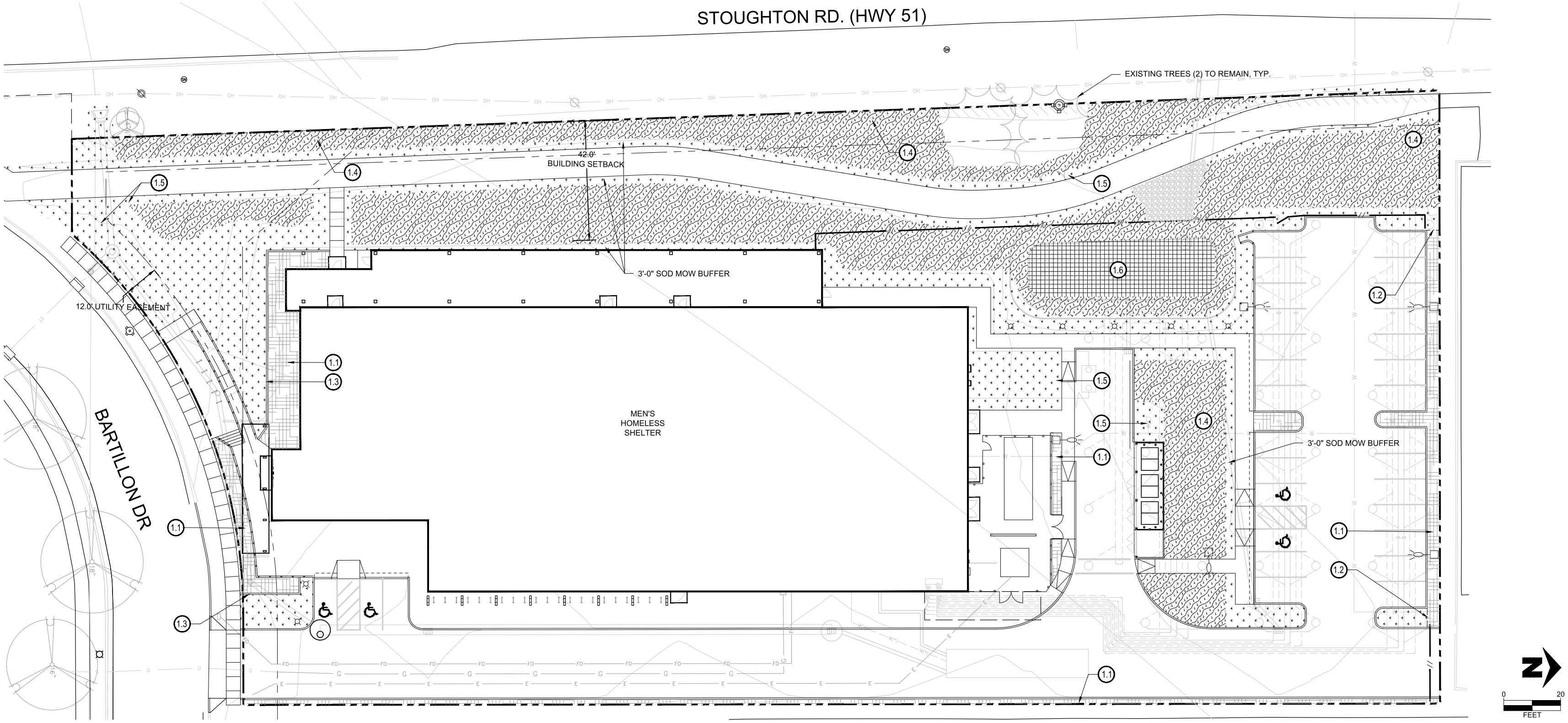

GROUND COVERS						
	TB2	11,017 sf	50% FESCUE 50% BLUEGRASS BLEND	Sod	sod	
	NN2	14,173 sf	Native Seed	Native Seed	seed	Short Prairie for Medium Soils
BIORETENTION PLUGS						
	BP	1,334	Bio Plugs	Bio Plugs	4"	Plug

LANDSCAPE LEGEND

HARDWOOD MULCH SHRUB BED

METAL EDGER

HARDSCAPE, MULCHING , & SEEDING CONSTRUCTION NOTES

1. LANDSCAPE MATERIAL
   - 1.1. PROVIDE 3" DEPTH SHREDDED HARDWOOD MULCH AROUND ALL STAND-ALONE TREES TO A MIN. 3-FOOT PERIMETER, AND IN ALL AREAS NOTED ON PLANS OVER GEOTEXTILE WEED CONTROL FABRIC. NO WEED CONTROL FABRIC IS REQUIRED IN GROUNDCOVER OR PERENNIAL AREAS. MULCHED LANDSCAPE BEDS SHALL HAVE AN EDGER WHEN PERIMETER IS NOT A CURB. SEE PLAN FOR EDGER TYPE.
   - 1.2. METAL EDGER
   - 1.3. 6" PLANTER CURB
   - 1.4. NATIVE SEED SHALL BE SHORT PRAIRIE FOR MEDIUM SOILS PROVIDED BY PRAIRIE NURSERY (www.prairienursery.com) OR APPROVED EQUAL.
   - 1.5. SOD
   - 1.6. BIORETENTION PLUG MIX, SEE NOTES AND PLUG LIST

BIORETENTION PLANTING NOTES

1. BIORETENTION SHALL CONFORM TO WIS. DNR TECH STANDARD 1004.
2. ENGINEERED SOIL SHALL CONSIST OF 70%-85% SILICA SAND AND 15%-30% COMPOST WITH A PH OF 5.5-6.5
3. BIORETENTION BASINS SHALL BE EXCAVATED AND USED AS SEDIMENT TRAPS DURING CONSTRUCTION. UPON COMPLETION OF CONSTRUCTION AND SITE STABILIZATION, THE BASINS SHALL BE OVER-EXCAVATED 3 FEET MINIMUM AND THEN THE SAND LAYER AND ENGINEERED SOIL SHALL BE PLACED TO WITHIN THREE INCHES OF FINAL GRADE. ONCE THE ENGINEERED SOIL IS PLACED, A COCONUT FIBER MAT SHALL BE ADDED ON TOP OF THE ENGINEERED SOIL.
4. FIELD INFILTRATION TESTING: IMMEDIATELY AFTER ROUGH GRADING OF STORMWATER BIOINFILTRATION AND INFILTRATION DEVICES, PROVIDE FIELD INFILTRATION TESTING CONDUCTED BY A THIRD-PARTY TESTING AGENCY TO VERIFY INFILTRATION RATES FOR ALL STORMWATER BIOINFILTRATION AND INFILTRATION DEVICES. DETERMINE INFILTRATION RATES IN ACCORDANCE WITH WISCONSIN DEPARTMENT OF NATURAL RESOURCES (WDNR) SITE EVALUATION FOR STORMWATER INFILTRATION, STANDARD 1002. FREQUENCY OF TESTING SHALL BE 1 TEST PER 5000 SQUARE FEET OF SURFACE AREA OF THE STORMWATER INFILTRATION DEVICE MEASURED AT THE DESIGN HIGH WATER LEVEL AND AT LEAST ONE TEST PER DEVICE. FURNISH A REPORT OF THE TEST RESULTS TO ARCHITECT/ENGINEER. TESTING SHALL BE COMPLETED AT THE EXPENSE OF THE CONTRACTOR.
5. SPECIFIC SPECIES OR CONTAINER SIZE SUGGESTED SUBSTITUTIONS SHALL BE PRESENTED TO CONSULTANT ALONG WITH THE REASONS FOR THE SUGGESTIONS. WITH CONSULTANT OR PROJECT ENGINEER'S APPROVAL, SUBSTITUTIONS MAY BE MADE.
6. LIVE PLANTS CAN BE PLANTED IN THE FIELD DURINGTHE GROWING SEASON FROM MAY 1 THROUGH OCTOBER 1. ANY SUGGESTED PLANTING TIMES NOT IN THIS WINDOW SHALL BE APPROVED BY CONSULTANT OR ENGINEER. IF PLANTING OCCURS OUTSIDE OF THIS WINDOW ADDITIONAL MEASURES MAY NEED TO BE TAKEN (I.E. MULCH) TO ENSURE PLANT SURVIVAL. IN THESE INSTANCES, THE CONTRACT PRICE MAY NEED TO BE ADJUSTED ACCORDINGLY.
7. ALL PLANTED MATERIALS WILL BE WARRANTED BY INSTALLATION CONTRACTOR TO BE IN HEALTHY CONDITION WITH A REPLACEMENT GUARANTEE FOR A PERIOD OF ONE YEAR FROM THE DATE OF PLANTING.
8. NATIVE PLANTS SHOULD BE WATERED IN AFTER INSTALLATION TO ENSURE THEIR SURVIVAL. THIS TYPICALLY INVOLVES WATERING AT TIME OF INSTALLATION AND 2 TIMES WEEKLY FOR A ONE MONTH PERIOD OR UNTIL GROUND FREEZE UP IF NATURAL RAINFALLS ARE INSUFFICIENT. A SINGLE WATERING EVENT INVOLVES WATERING THE SOIL IN THE PLANTED AREAS TO THE POINT OF SATURATION BUT STOPPING SHORT OF SOIL DISPLACEMENT. SHOULD VERY DRY CONDITIONS DEVELOP WITHIN ONE YEAR OF PLANTING, ADDITIONAL WATERINGS MAY BE NECESSARY, CONSULTANT OR PROJECT ENGINEER WILL DETERMINE THIS AND CONTRACT PRICES MAY BE ADJUSTED TO ACCOMMODATE THIS ACTION.
9. PLANTS SHALL BE PLANTED IN THE BIORETENTION AREA AT A MINIMUM OF ONE PLANT PER EVERY 12" ON CENTER.
10. UPON COMPLETION OF EXCAVATING & GRADING OPERATIONS, A LOOSE, FRIABLE PLANT BED SHALL BE PREPARED FOR INSTALLATION OF NATIVE PLANT PLUGS.
11. CARE SHALL BE TAKEN TO MINIMIZE SOIL COMPACTION DURING CONSTRUCTION ACTIVITY. BY EXAMPLE OF A STANDARD SOIL PENETROMETER (COMPACTION TESTER), THE TOPSOIL COMPACTION READINGS SHALL BE LESS THAN 200 PSI AT THE 0-6 INCH DEPTH AND LESS THAN 250 PSI AT THE 6-18 INCH DEPTHS IN ALL AREAS TO BE PLANTED.
12. UNDULATIONS OR IRREGULARITIES IN THE PLANT BED WHICH WOULD INTERFERE WITH A CONSISTENT SEEDING OPERATION SHALL BE LEVELED PRIOR TO FINAL SEEDING.
13. FINAL PLANTING AREA SHOULD BE GRADED SUCH THAT THE AREAS TO BE PLANTED SHALL CONSIST OF A SMOOTH, FREE DRAINING, EVEN SURFACE WITH A LOOSE POROUS TEXTURE.
14. PLANT DIVERSITY SHALL BE EQUALLY DISTRIBUTED THROUGHOUT THE BIORETENTION BASIN BASED ON THE PLANT LIST ON THIS SHEET.

BIORETENTION PLUG MIX			
WILDFLOWERS		GRASSES & SEDGES	
Common Name	Scientific Name	Common Name	Scientific Name
Nodding Pink Onion	Allium cernuum	Big Bluestem	Andropogon gerardii
Pale Indian Plantain	Arnoglossum atriplicifolium	Bottlebrush Sedge	Carex comosa
Red Milkweed	Asclepias incarnata	Porcupine Sedge	Carex hystericina
New England Aster	Aster novae-angliae	Awl Fruited Sedge	Carex stipata
White False Indigo	Baptisia alba	Fox Sedge	Carex vulpinoidea
Joe Pye Weed	Eupatorium maculatum	Canada Wild Rye	Elymus canadensis
Boneset	Eupatorium perfoliatum	Virginia Wild Rye	Elymus virginicus
Dogtooth Daisy	Helenium autumnale	Switchgrass	Panicum virgatum
Ox Eye Sunflower	Heliopsis helianthoides	Dark Green Bulrush	Scirpus atrovirens
Wild Iris	Iris shrevei	Indiangrass	Sorghastrum nutans
Blue Flag Iris	Iris versicolor	Prairie Cordgrass	Spartina pectinata
Prairie Blazing Star	Liatris pycnostachya		
Dense Blazing Star	Liatris spicata		
Great Blue Lobelia	Lobelia siphilitica		
Bergamot	Monarda fistulosa		
Yellow Coneflower	Ratibida pinnata		
Black Eyed Susan	Rudbeckia hirta		
Sweet Black Eyed Susan	Rudbeckia subtomentosa		
Brown Eyed Susan	Rudbeckia triloba		
Wild Senna	Senna hebecarpa		
Rosinweed	Silphium integrifolium		
Cupplant	Silphium perfoliatum		
Prairie Dock	Silphium terebinthinaceum		
Ohio Goldenrod	Solidago ohioensis		
Blue Vervain	Verbena hastata		
Ironweed	Vernonia fasciculata		
Golden Alexanders	Zizia aurea		

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MULCH, SEED, AND SOD PLAN

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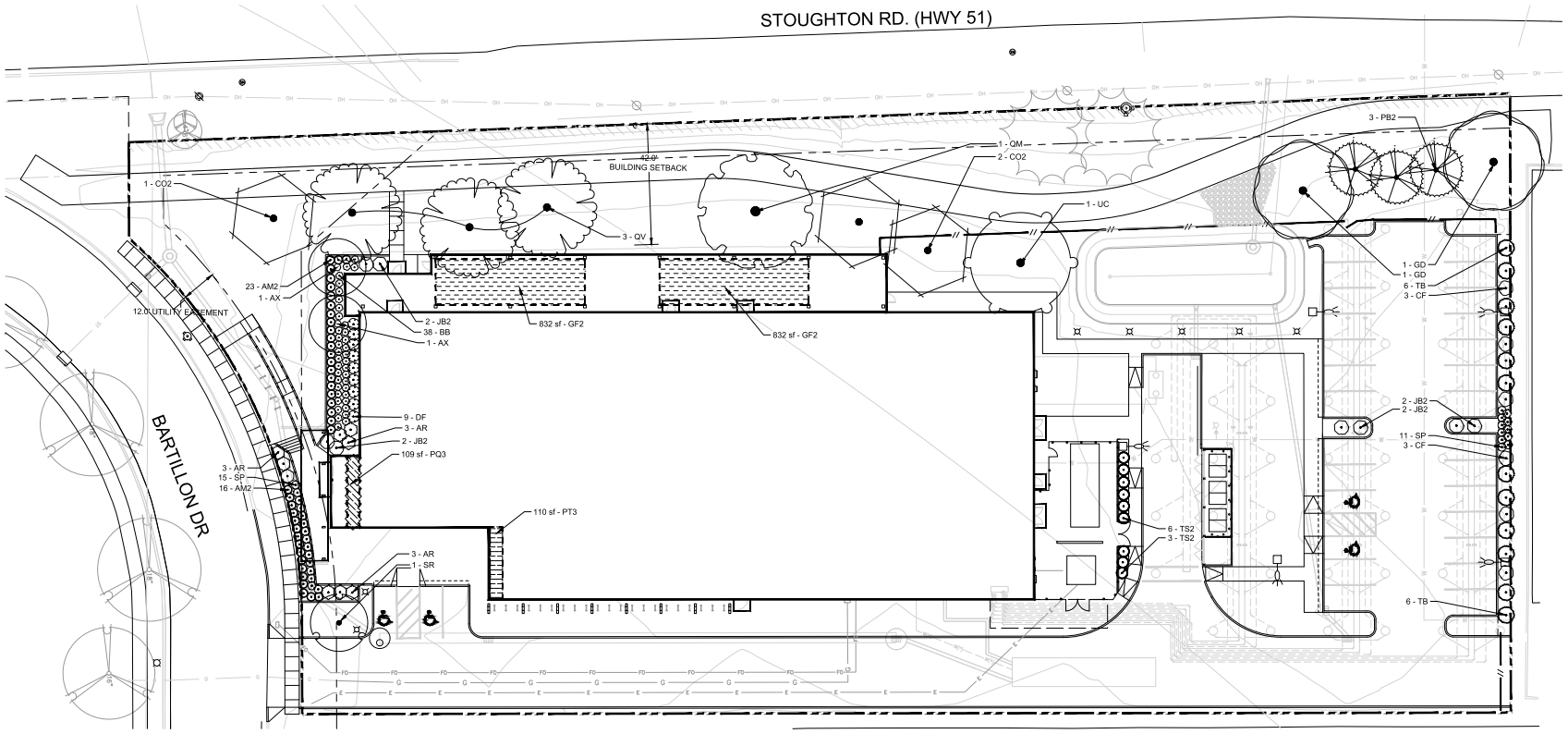

PLANT SCHEDULE	
CODE	COMMON NAME
TREES	
QV	Black Oak
QM	Burr Oak
UC	Cathedral Elm
SR	Japanese Tree Lilac
GD	Kentucky Coffeetree
CO2	Shagbark Hickory
EVERGREEN TREES	
PB2	Black Spruce
TB	Brandon Arborvitae
TS2	Skinner Dwarf Arborvitae
ORNAMENTAL TREES	
AX	Apple Serviceberry
SHRUBS	
CF	Arctic Fire Red Twig Dogwood
JB2	Blue Rug Juniper
DF	Bush Cinquefoil
AM2	Massachusetts Kinnikinnick
AR	Regent Serviceberry
GRASSES	
BB	Blonde Ambition Blue Grama
SP	Prairie Dropseed
GREEN ROOF	
GF2	GREENROOF
GREEN WALL	
PT3	Boston Ivy
PQ3	Virginia Creeper

GREEN ROOF					
GF2	1,664 sf	GREENROOF	GREENROOF	flat	SEE SPECFICATIONS
GREEN WALL					
PQ3	109 sf	Parthenocissus quinquefolia	Virgina Creeper	flat	Plug
PT3	110 sf	Parthenocissus tricuspidata	Boston Ivy	flat	Plug

Native Plants for Extensive Green Roofs

SCIENTIFIC NAME	COMMON NAME	Exposure	HEIGHT Min-Max (Typical)	COLOR	BLOOM TIME A	M	J	A	S	O
Allium cernuum	NODDING WILD ONION	Sun/Pt Shade	1-2' (1.5')	Pink						
Antennaria neglecta	PRAIRIE PUSSEYTOES	Sun/Pt Shade	4"	White						
Aquilegia canadensis	WILD COLUMBINE	Sun/Pt Shade	2-4' (3')	Red						
Bouteloua gracilis	BLUE GRAMA	Sun/Pt Shade	8-12" (1')	N/A						
Carex muhlenbergia	SAND BRACTED SEDGE	Sun/Pt Shade	1-2' (1.5')	N/A						
Coreopsis lanceolata	SAND COREOPSIS	Sun	1-3' (2')	Yellow						
Juncus tenuis	PATH RUSH	Sun/Pt Shade	12"	N/A						
Koeleria cristata	JUNE GRASS	Sun	1-2' (1.5')	N/A						
Opuntia humifusa	EASTERN PRICKLY PEAR	Sun	6-12" (8")	Yellow						
Penstemon digitalis	FOXGLOVE BEARD TONGUE	Sun	2.5-5' (3.5')	White						
Penstemon hirsutus	HAIRY BEARD TONGUE	Sun/Pt Shade	1-3' (1.5')	Purple						
Penstemon pallidus	PALE BEARD TONGUE	Sun	1-2' (1')	Cream						
Potentilla arguta	PRAIRIE CINQUEFOIL	Sun	1-3' (2')	Yellow						
Rudbeckia hirta	BLACK-EYED SUSAN	Sun	2-3' (2.5')	Yellow						
Ruellia humilis	HAIRY RUELLIA (3)	Sun	6-12" (9")	Purple						
Sedum ternatum	WILD STONECROP	Pt Shade - Shade	6"	White						

Once established these plant species will thrive in media profiles of 4-5". Will require irrigation during extended periods of drought.

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608-838-0444
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PROJECT # 122.1182.30

MENS HOMELESS SHELTER
1904 BARTILLON DR.
MADISON, WI 53704

DATE OF ISSUE:	12/29/2022
PRE-DESIGN	3/23/2023
INFORMATIONAL MEETING	6/12/2023
SCHEMATIC DESIGN	6/16/2023
DESIGN DEVELOPMENT	8/18/2023
UDC	12/08/2023
REVISIONS:	

~~PRELIMINARY~~
~~NOT FOR CONSTRUCTION~~

PROJECT # 22061

PLANTING PLAN

L 201

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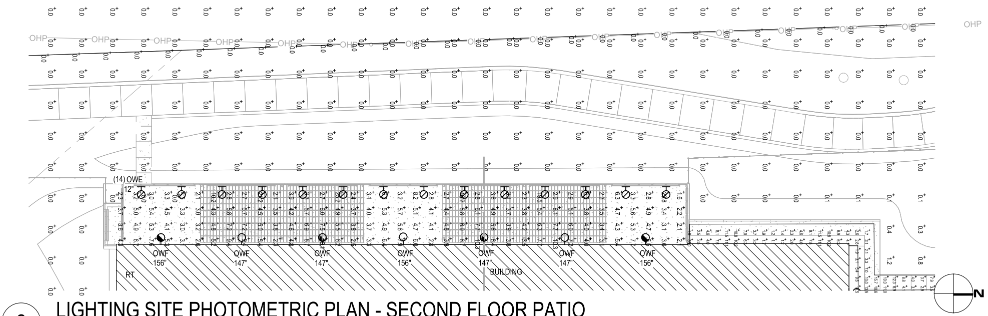


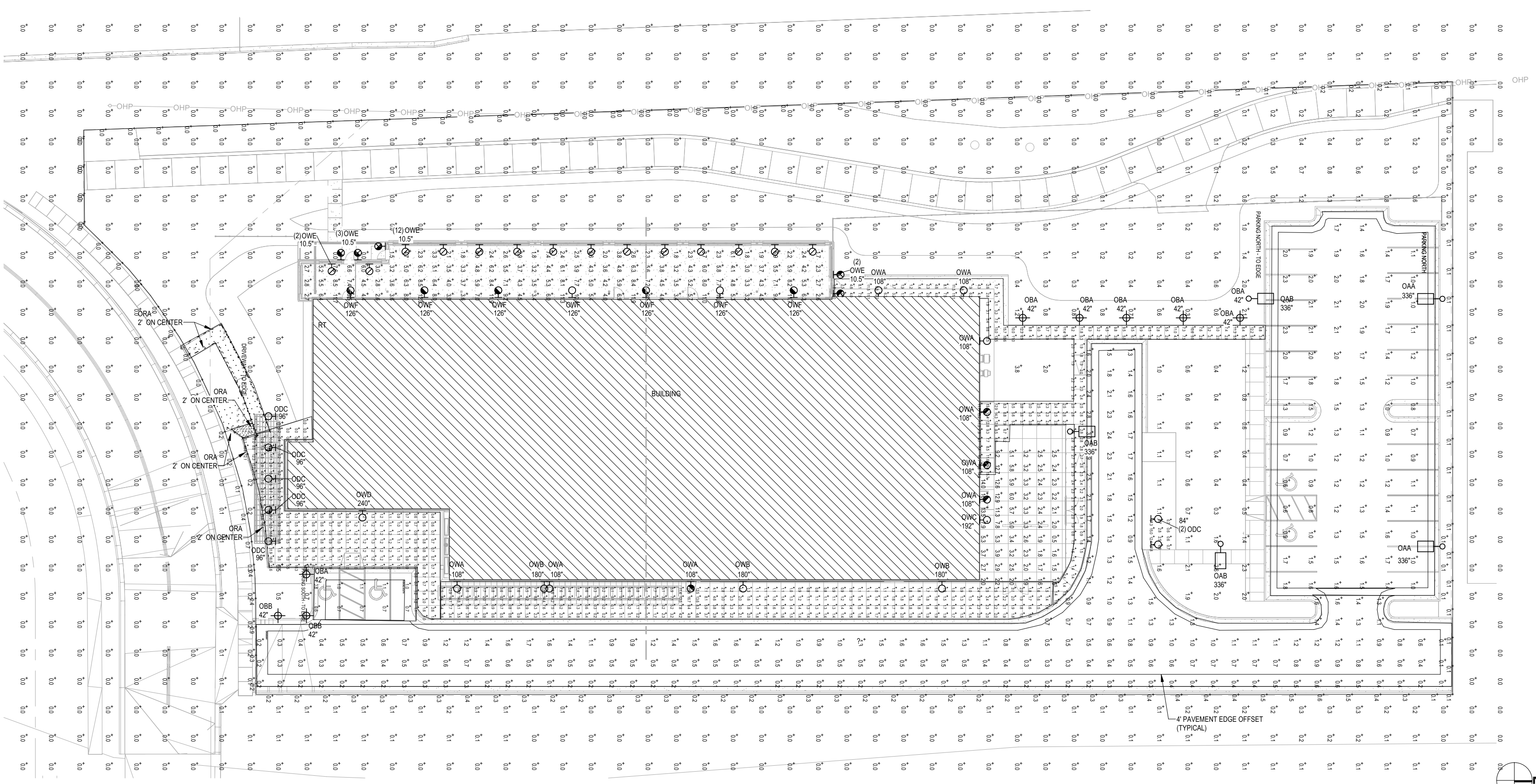
2 LIGHTING SITE PHOTOMETRIC PLAN - SECOND FLOOR PATIO

SCALE: 1" = 20'-0"

LIGHTING LEGEND

- POLE MOUNT LUMINAIRE
- BOLLARD
- WALL SCONCE
- RAIL LIGHTING
- SHADING INDICATES EMERGENCY FIXTURE (TYPICAL ALL FIXTURE TYPES)
- TYPE (SEE SCHEDULE)
- MOUNTING HEIGHT (IF INDICATED)
- X" on center
- RELATIVE LOCATION
- DISTANCE

ACTIVITY CATEGORY: LOW
PARKING W/SF:
NORTH LOT: 0.019 W/SF
SOUTH LOT: 0.05 W/SF



1 LIGHTING SITE PHOTOMETRIC PLAN

SCALE: 1" = 20'-0"

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1904 BARTILLON DRIVE
MADISON, WI

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LIGHTING SITE PHOTOMETRICS PLAN

EL001

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Luminaire Schedule

Tag	Label	Luminaire Lumens	LLF	Luminaire Watts
OAA	DSX1 LED P1 40K 70CRI BLC3	5522	0.900	50.9
OAB	DSX1 LED P1 40K 70CRI T3LG	6784	0.900	50.9
OBA	PA7R-NU3-12L-010-4K7	881	0.900	22
OBB	PA7R-NU4-12L-010-4K7	1063	0.900	22
ODC	DE-LED-TR-X100-FL-12439915-12	1129	0.900	12.7427
ORA	LPOD40-Dir-PCLens-AsymRefW-LP	158	0.900	2
OWA	WDGE2 LED P2SW 40K 80CRI VW	2074	0.900	15
OWB	DSX0 LED P1 40K 70CRI TFTM_1	4109	0.900	33
OWC	WDGE3 LED P1 70CRI RFT 40K (1	7592	0.900	52
OWD	DSX0 LED P1 40K 70CRI TFTM	4896	0.900	33.21
OWE	LE-40601-S-W40 Rev_2	155	0.900	13.5
OWF	WDGE2 LED P3 40K 80CRI VW	3214	0.900	22.55

Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
DRIVEWAY - TO EDGE	Illuminance	Fc	0.83	3.0	0.1	8.30	30.00
DUMPSTER ENCLOSURE	Illuminance	Fc	10.33	37.8	0.6	17.22	63.00
EQUIPMENT YARD	Illuminance	Fc	4.47	16.1	0.5	8.94	32.20
PARKING NORTH - TO EDGE	Illuminance	Fc	1.43	2.5	0.6	2.38	4.17
PARKING SOUTH - TO EDGE	Illuminance	Fc	0.84	1.1	0.6	1.40	1.83
PATIO FIRST FLOOR	Illuminance	Fc	5.24	12.0	1.5	3.49	8.00
PATIO SECOND FLOOR_Top_1	Illuminance	Fc	5.37	29.8	1.6	3.36	18.63
PROPERTY LINE	Illuminance	Fc	0.14	0.9	0.0	N.A.	N.A.
SIDEWALK BIKE PARKING	Illuminance	Fc	2.75	16.7	0.1	27.50	167.00
SIDEWALK NORTH	Illuminance	Fc	5.47	35.0	0.8	6.84	43.75
SIDEWALK PLAZA	Illuminance	Fc	3.55	39.7	0.0	N.A.	N.A.
SITE OVERALL 4' AFG	Illuminance	Fc	0.03	3.8	0.0	N.A.	N.A.
DRIVEWAY	Illuminance	Fc	0.95	2.4	0.3	3.17	8.00
PARKING NORTH	Illuminance	Fc	1.43	2.5	0.6	2.38	4.17
PARKING SOUTH	Illuminance	Fc	0.88	1.1	0.7	1.26	1.57
RAMP	Illuminance	Fc	19.11	28.3	0.0	N.A.	N.A.
STAIR	Illuminance	Fc	17.63	27.3	5.5	3.21	4.96

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LIGHTING SITE SCHEDULES

EL002

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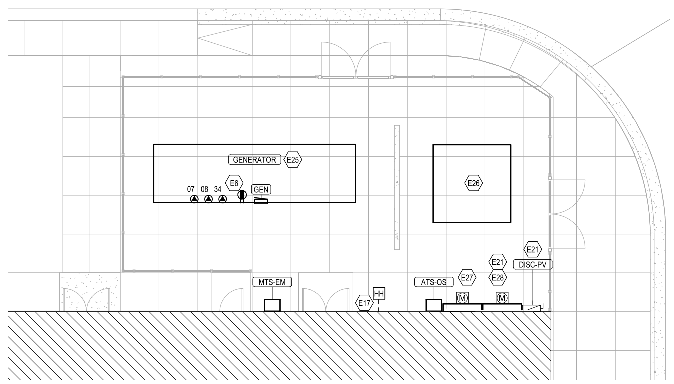


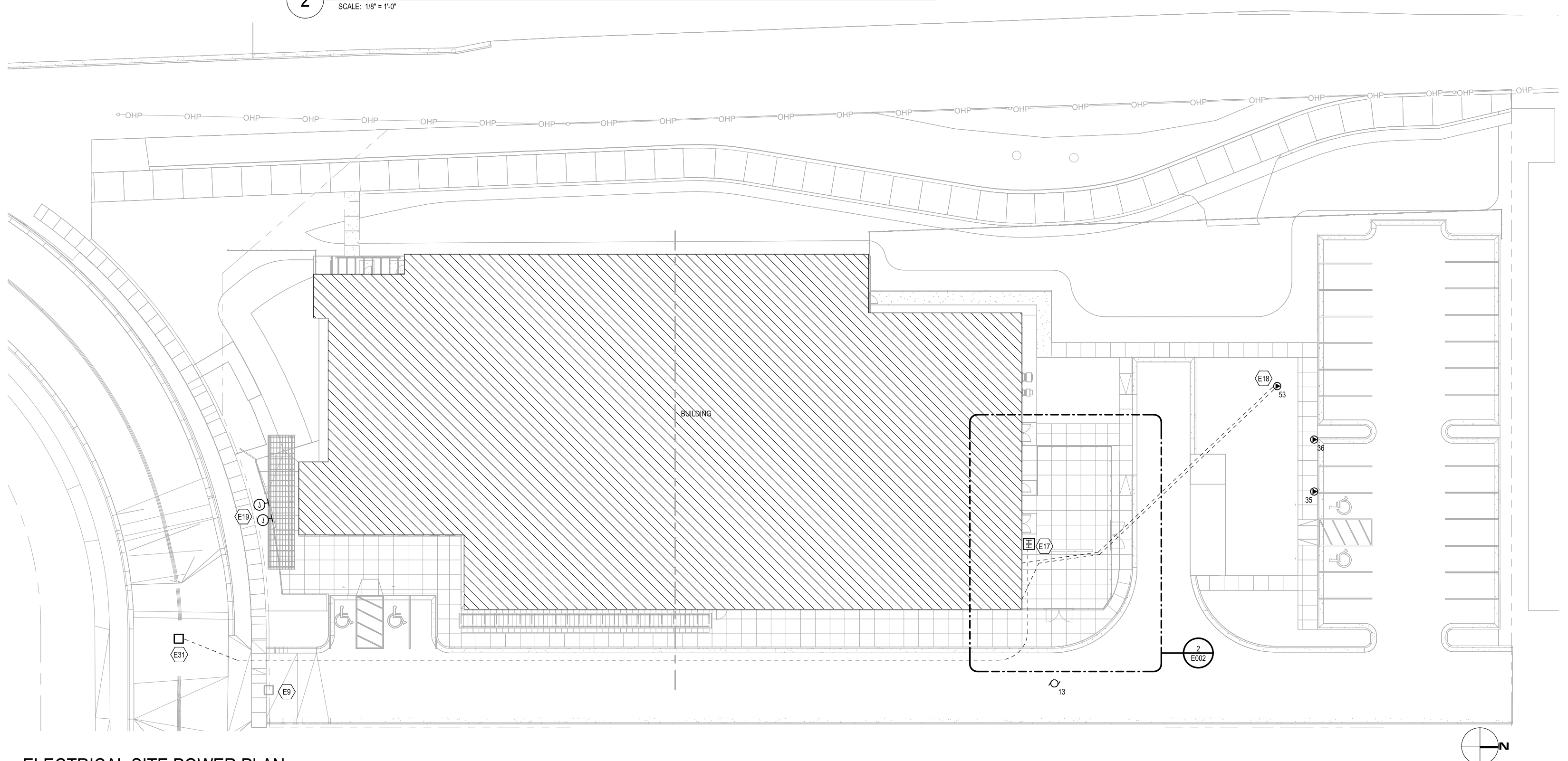
2 ENLARGED NORTH YARD SITE POWER PLAN
SCALE: 1/8" = 1'-0"

SITE POWER LEGEND

- DUPLEX RECEPTACLE
- GFI DUPLEX RECEPTACLE
- SPECIAL PURPOSE OUTLET
- WALL MOUNTED JUNCTION BOX
- TRANSOCKET
- METER
- SURFACE MOUNT PANEL
- RECESSED PANEL
- NON-FUSED DISCONNECT
- FUSED DISCONNECT
- MOTOR
- SPECIAL PURPOSE OUTLET NUMBER (SEE SCHEDULE)
- MOTOR NUMBER (SEE SCHEDULE)

KEY NOTES

E6	RECEPTACLE SHALL BE LOCATED INSIDE GENERATOR ENCLOSURE.
E9	COORDINATE WITH UTILITY TO HAVE EXISTING SERVICE TRANSFORMER RELOCATED.
E17	RUN 3" C INTO DEMARK ROOM.
E18	PROVIDE A 1" CONDUIT FOR PV CABLES GOING TO THE COMBINER PANEL AND A 3/4" CONDUIT TO PANEL A1/R FOR A RECEPTACLE AND POSSIBLE LIGHTING. MARK END OF CONDUIT WITH IRON PIPE.
E19	ILLUMINATED SIGNAGE TO BE CONTROLLED BY LIGHTING CONTROL SYSTEM.
E21	PV SYSTEM AND RELATED EQUIPMENT IS ALTERNATE BID ITEM 1.
E25	GENERATOR PAD SHALL BE A MINIMUM OF 6" AFG.
E26	PROPOSED LOCATION OF UTILITY SERVICE TRANSFORMER
E27	PROPOSED LOCATION OF METER TRANSOCKET.
E28	PROPOSED LOCATION OF UTILITY METER FOR PV SYSTEM.
E31	REFER TO CIVIL PLANS FOR LOCTION OF FIBER BOX.



1 ELECTRICAL SITE POWER PLAN
SCALE: 1" = 20'-0"

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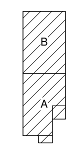
MADISON, WI



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ELECTRICAL SITE PLAN

EP001

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CITY PROJECT # 13346

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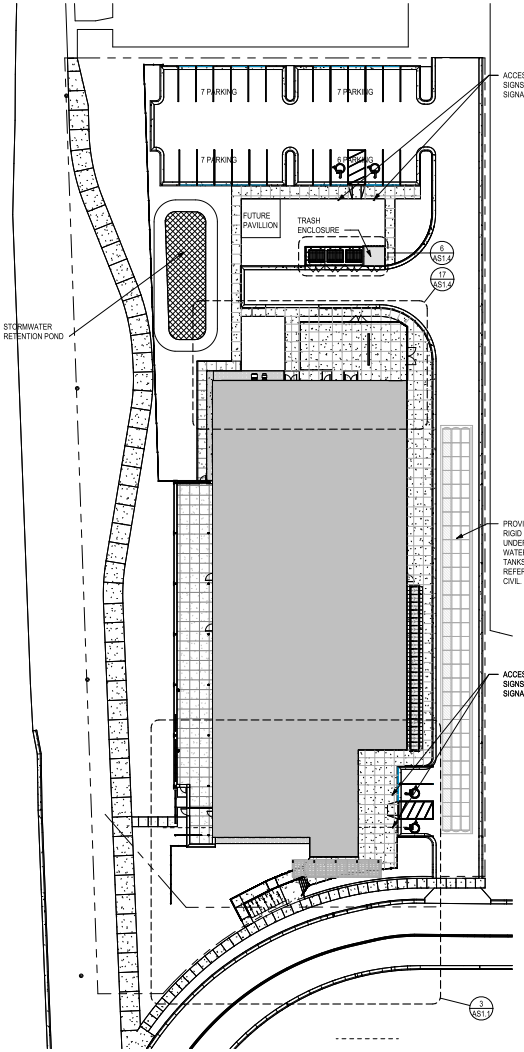
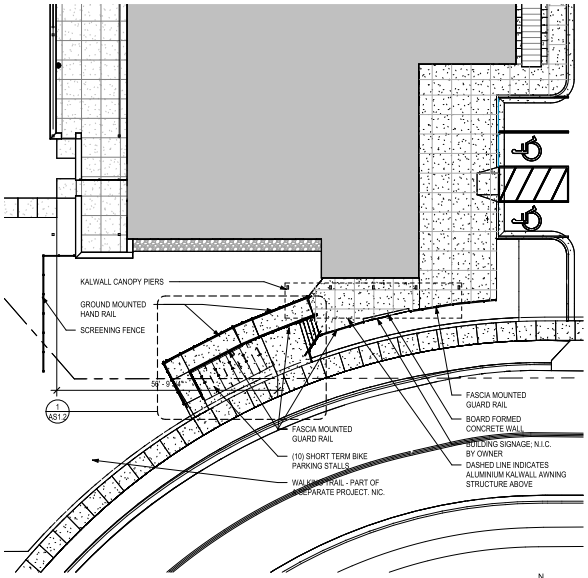
1904 BARTILLON DRIVE,
MADISON, WI



1 ARCH SITE PLAN
1/32" = 1'-0"
0' 8' 16' 32' N



3 ENLARGED ARCH SITE PLAN - SOUTH
1/16" = 1'-0"
0' 4' 8' 16' N

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ARCH SITE PLAN

AS1.1

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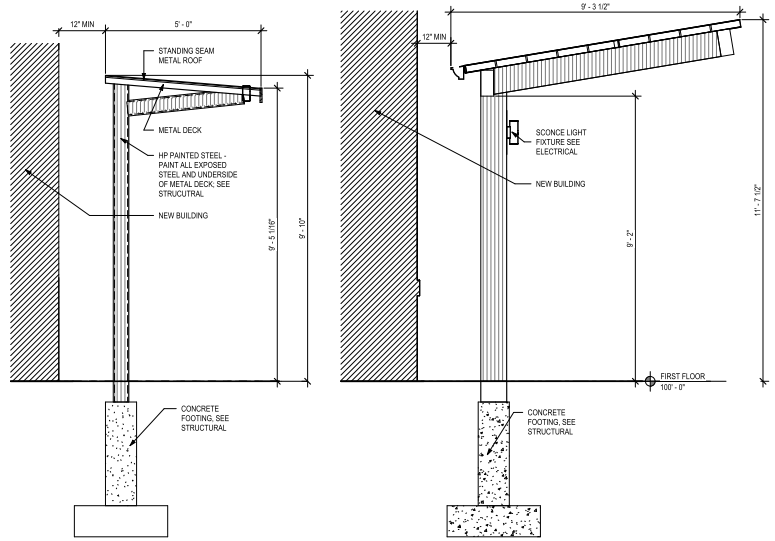

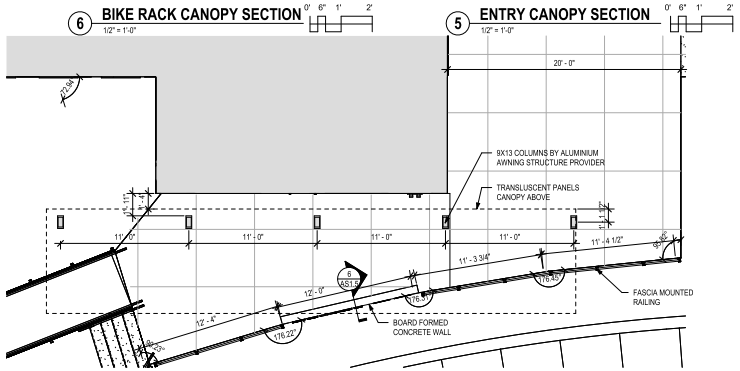

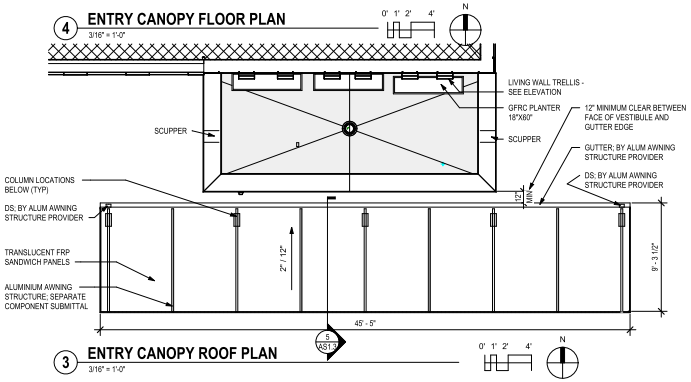

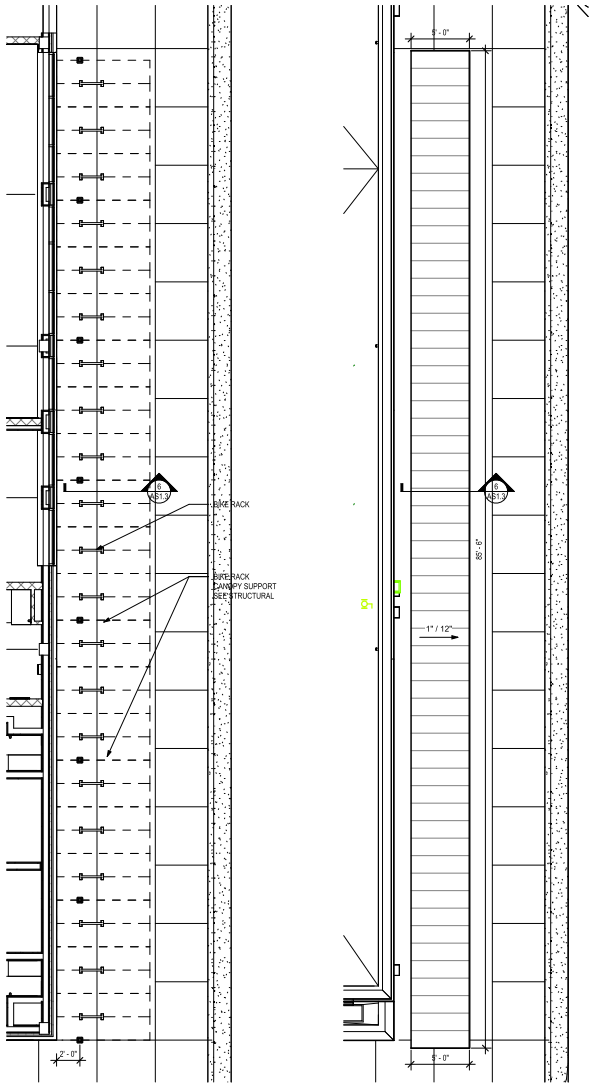

2 FIRST FLOOR PLAN 3/16" = 1'-0" 0' 1' 2' 4' N

1 ROOF PLAN 3/16" = 1'-0" 0' 1' 2' 4' N

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CITY PROJECT # 13346

CITY OF MADISON - DANE COUNTY - MEN'S HOMELESS SHELTER

1904 BARTILLON DRIVE,
MADISON, WI

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ARCH SITE PLAN - ENTRY CANOPY & SITE COMPONENTS

AS1.3

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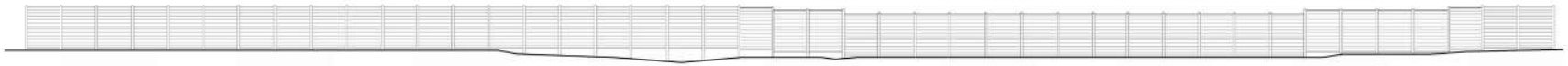
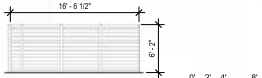


11 PRIVACY FENCE 1 WEST ELEV.
1/8" = 1'-0"

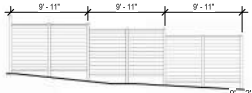
10 PRIVACY FENCE 1 SOUTH ELEV.
1/8" = 1'-0"

9 PRIVACY FANCE 1 NORTH ELEV.
1/8" = 1'-0"

15 MECH ENCLOSURE - NORTH
1/8" = 1'-0"



14 MECH ENCLOSURE - SOUTH
1/8" = 1'-0"

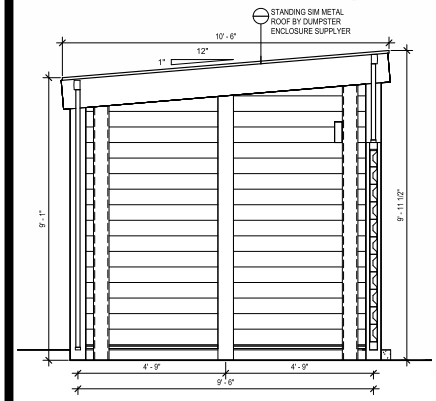


8 PRIVACY FENCE 2 WEST ELEV.
1/8" = 1'-0"

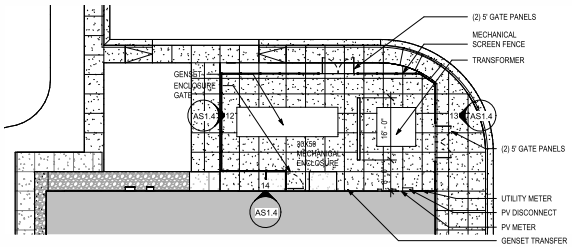
7 PRIVACY FENCE 2 SOUTH ELEV.
1/8" = 1'-0"

13 MECH ENCLOSURE - EAST
1/8" = 1'-0"

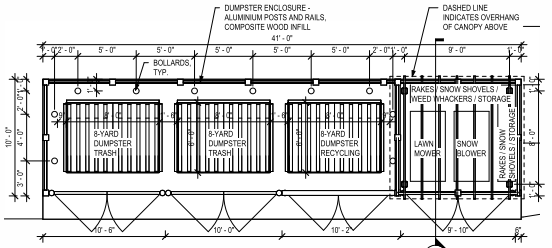
12 MECH ENCLOSURE - WEST
1/8" = 1'-0"



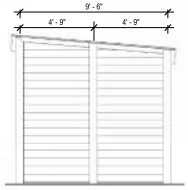
16 TRASH ENCLOSER SECTION
1/2" = 1'-0"



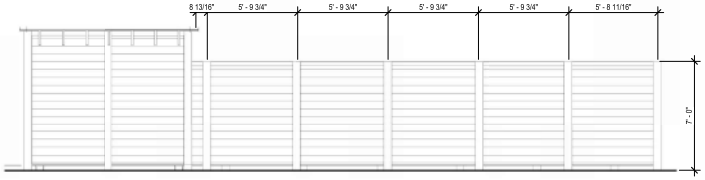
17 ENLARGED ARCH SITE PLAN - NORTH
1/16" = 1'-0"



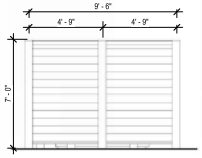
6 DUMPSTER ENCLOSURE PLAN
3/16" = 1'-0"



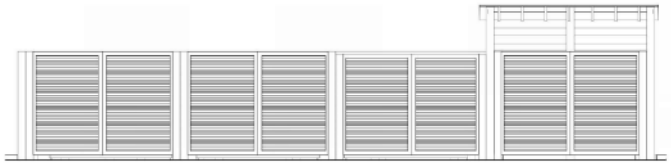
4 DUMPSTER ENCLOSER EAST ELEV.
1/4" = 1'-0"



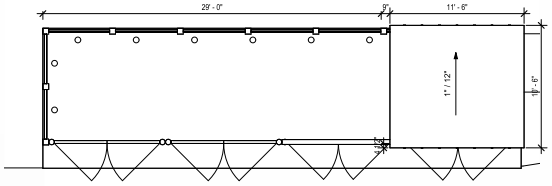
5 DUMPSTER ENCLOSER SOUTH ELEV.
1/4" = 1'-0"



3 DUMPSTER ENCLOSER WEST ELEV.
1/4" = 1'-0"



2 DUMPSTER ENCLOSER NORTH ELEV.
1/4" = 1'-0"



1 DUMPSTER ENCLOSURE ROOF PLAN
3/16" = 1'-0"

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CITY PROJECT # 13346

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1904 BARTILLON DRIVE,
MADISON, WI

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ARCH SITE PLAN - SITE COMPONENTS

AS1.4

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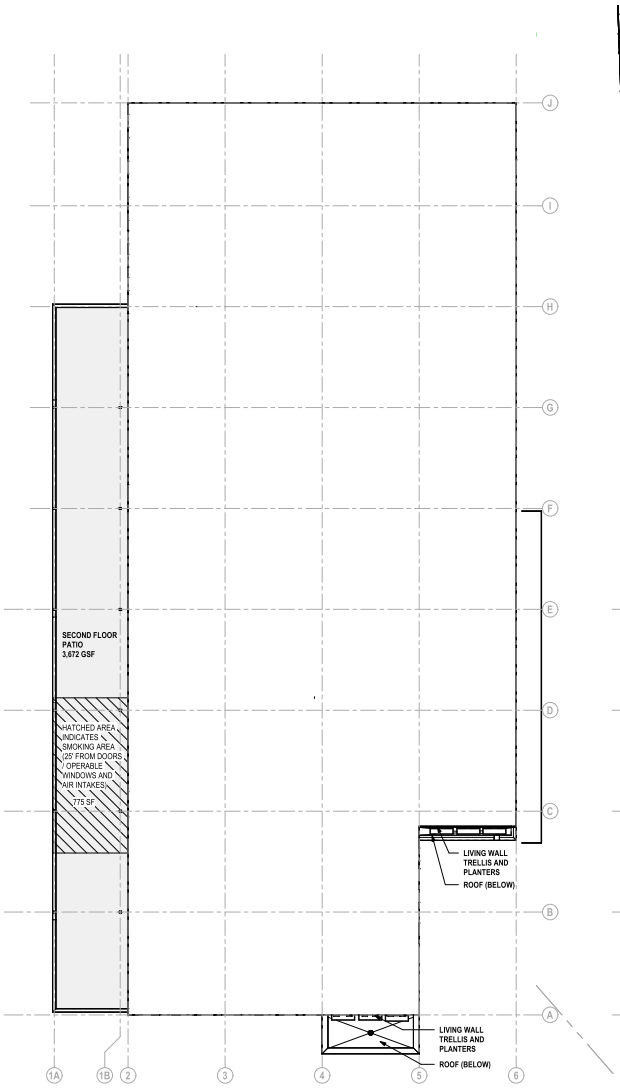
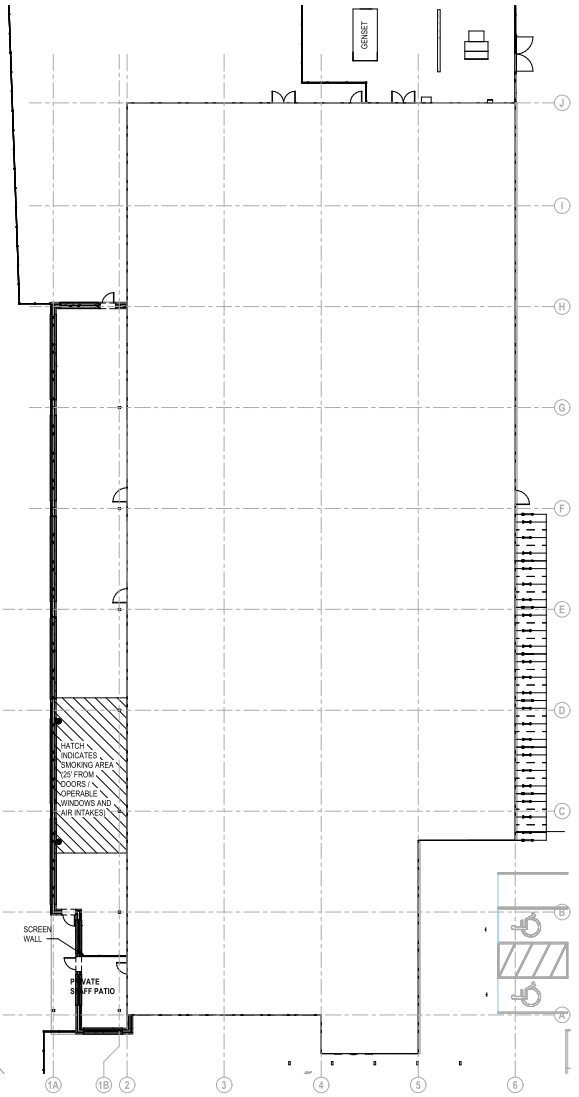


2 SECOND FLOOR PLAN
1/16" = 1'-0"



1 FIRST FLOOR PLAN
1/16" = 1'-0"

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PROPOSED BUILDING PLAN

A1

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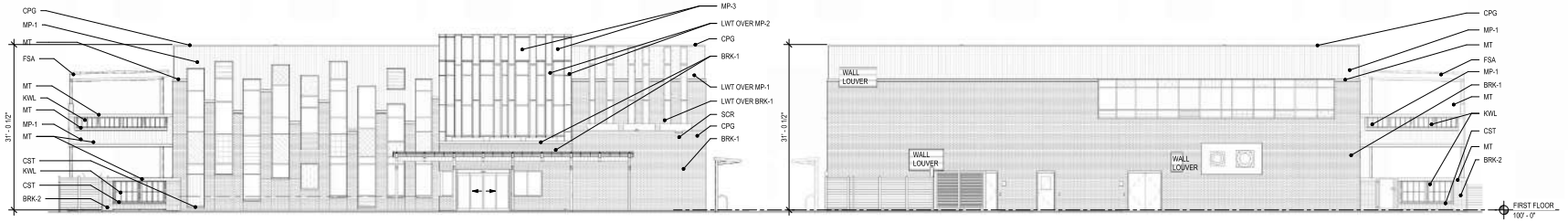


5 **SOUTH ELEVATION**
3/32" = 1'-0"

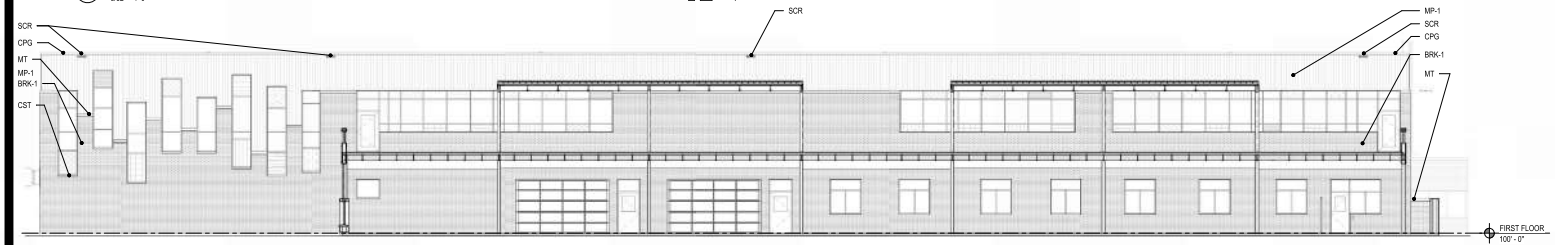
0' 2' 4' 8'

4 **NORTH ELEVATION**
3/32" = 1'-0"

0' 2' 4' 8'

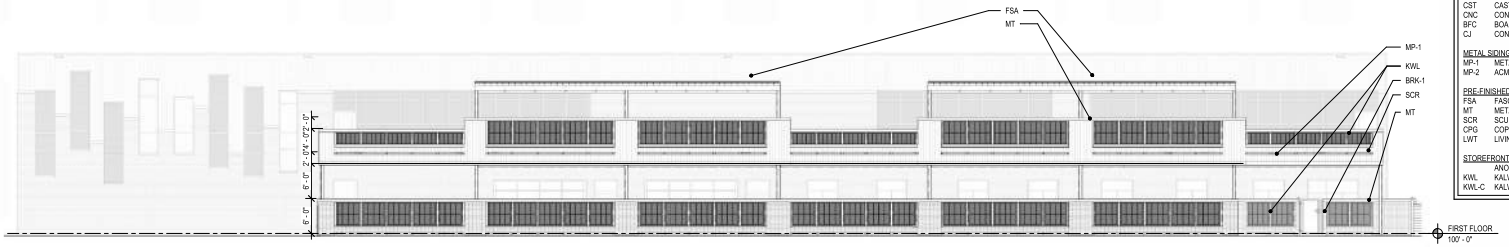
3 **EAST ELEVATION**
3/32" = 1'-0"

0' 2' 4' 8'



2 **HIDDEN WEST ELEVATION (SECTION THROUGH PATIO)**
3/32" = 1'-0"

0' 2' 4' 8'



1 **WEST ELEVATION**
3/32" = 1'-0"

0' 2' 4' 8'

ELEVATION LEGEND & NOTES

MASONRY		COLOR / MORTAR
BRK-1	BRICK VENEER	DARK IRONSPOT SMOOTH
		LIGHT FRENCH ROAST MORTAR
CST	CAST STONE	LIGHT GUNPOWDER
CNC	CONCRETE	
BFC	BOARD FORMED CONCRETE	
CJ	CONTROL JOINT	

METAL SIDING		COLOR
MP-1	METAL PANEL	WOOD LOOK - FAWN
MP-2	ACM PANEL	METALLIC SILVER

PRE-FINISHED METAL		COLOR
FSA	FASCIA	DARK BRONZE
MT	METAL TRIM	MATCH MP-1
SCR	SCUPPER	DARK BRONZE
CPG	COPING	DARK BRONZE
LWT	LIVING WALL TRELLIS	HARTFORD GREEN

STOREFRONT		COLOR
	ANODIZED ALUMINUM	CLEAR
KWL	KALWALL	DARK BRONZE (FRAME)
KWL-C	KALWALL CANOPY	HARTFORD GREEN (FRAME)

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CITY CONTRACT # 9358
CITY PROJECT # 13346

CITY OF MADISON - DANE COUNTY - MEN'S HOMELESS SHELTER

1904 BARTILLON DRIVE,
MADISON, WI

UDC FINAL APPROVAL

DATE OF ISSUE: 12/11/2023

PRELIMINARY

NOT FOR CONSTRUCTION

PROJECT # 22061

EXTERIOR ELEVATIONS

A2

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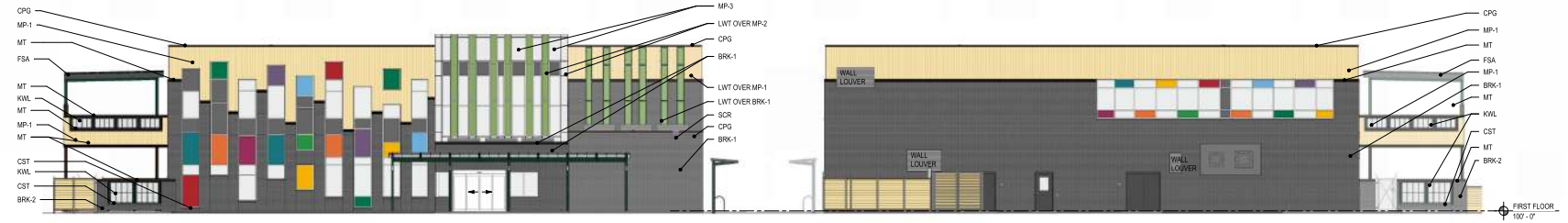


5 **SOUTH ELEVATION**
3/32" = 1'-0"

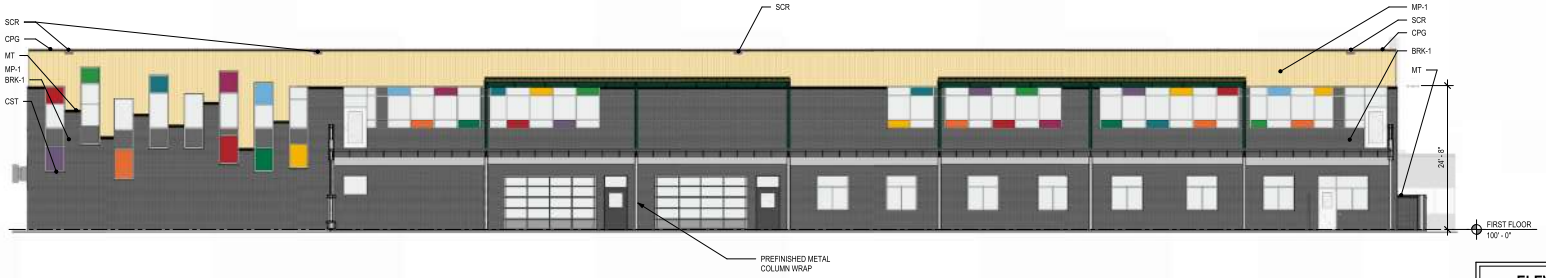
0' 2' 4' 8'

4 **NORTH ELEVATION**
3/32" = 1'-0"

0' 2' 4' 8'

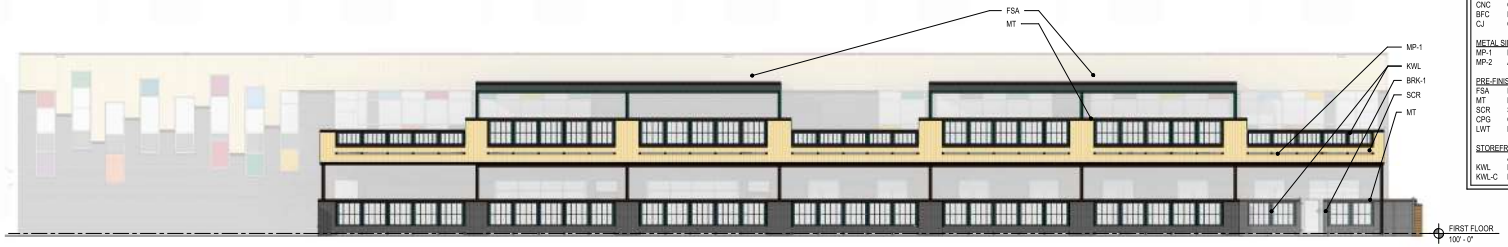
3 **EAST ELEVATION**
3/32" = 1'-0"

0' 2' 4' 8'



2 **HIDDEN WEST ELEVATION**
3/32" = 1'-0"

0' 2' 4' 8'



1 **WEST ELEVATION**
3/32" = 1'-0"

0' 2' 4' 8'

ELEVATION LEGEND & NOTES

MASONRY		COLOR / MORTAR
BRK-1	BRICK VENEER	DARK IRONSPOT SMOOTH LIGHT FRENCH ROAST MORTAR
CST	CAST STONE	LIGHT GUNPOWDER
CNC	CONCRETE	
BFC	BOARD FORMED CONCRETE	
CJ	CONTROL JOINT	
METAL SIDING		COLOR
MP-1	METAL PANEL	WOOD LOOK - FAWN
MP-2	ACM PANEL	METALLIC SILVER
PRE-FINISHED METAL		COLOR
FSA	FASCIA	DARK BRONZE
MT	METAL TRIM	MATCH MP-1
SCR	SCUPPER	DARK BRONZE
CPG	COPING	DARK BRONZE
LWT	LIVING WALL TRELLIS	HARTFORD GREEN
STOREFRONT		COLOR
	ANODIZED ALUMINUM	CLEAR
KWL	KALWALL	DARK BRONZE (FRAME)
KWL-C	KALWALL CANOPY	HARTFORD GREEN (FRAME)

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EXTERIOR ELEVATIONS - COLOR

A2C

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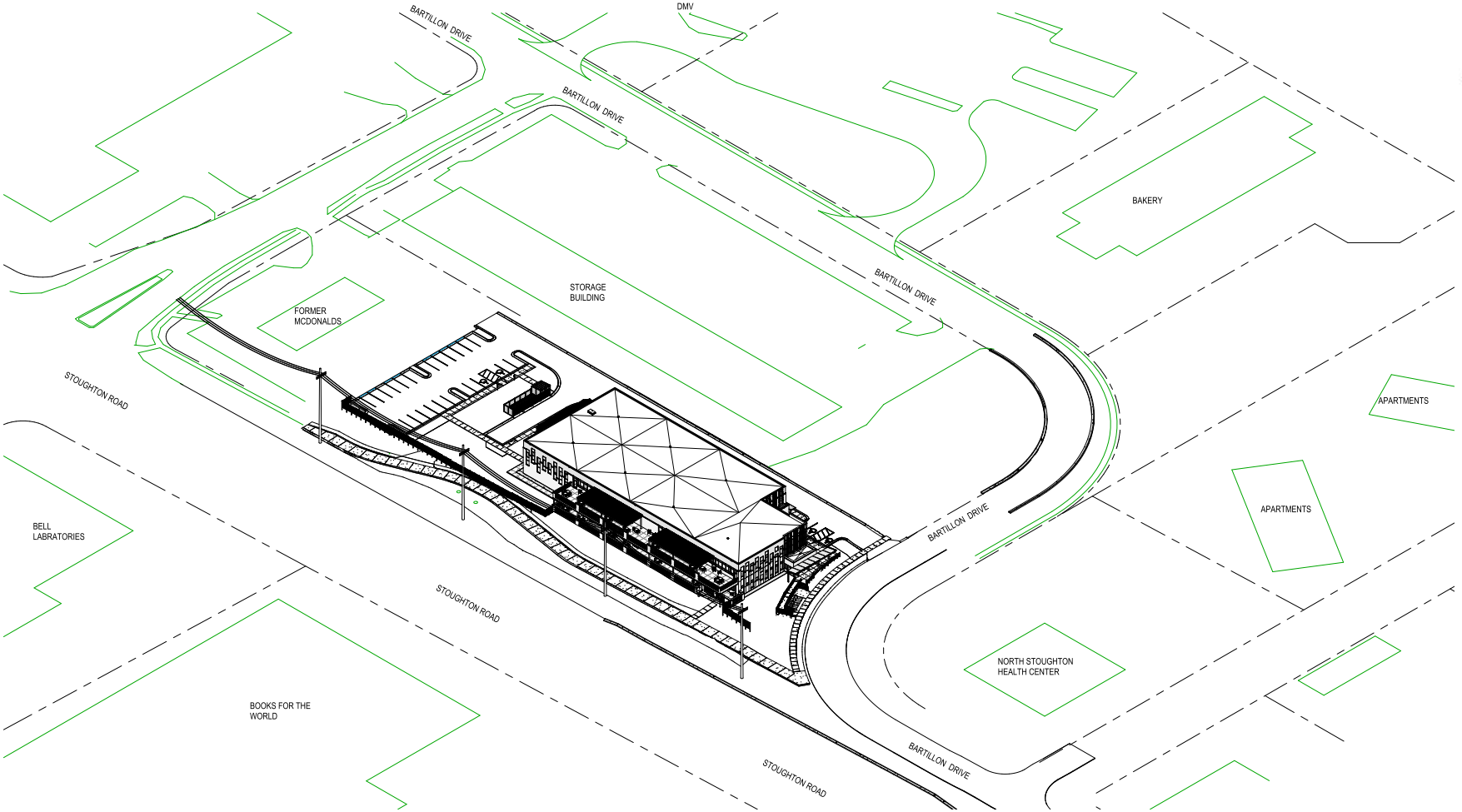

1 SITE AXONOMETRIC VIEW

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PROPOSED BUILDING MASSING 3D

A4

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VIEW FROM BARTILLON

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PROPOSED BUILDING MASSING 3D

A5

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VIEW FROM BARTILLON

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PROPOSED BUILDING MASSING 3D

A6

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VIEW FROM STOUGHTON

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PROPOSED BUILDING MASSING 3D

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BRICK - RAVENSWOOD IRONSPOT SMOOTH
LOWER WALLS

LUX METAL PANEL - FAWN
UPPER WALLS, UPPER PATIO, FENCE

ACM PANEL - SILVER METALIC
WALLS AT ENTRY

KALWALL TRANSLUCENT PANEL
PATIOS AND SELECT WINDOWS

HARTFORD GREEN
ENTRY CANOPY, CANOPY
STRUCTURES

STOREFRONT - KAWNEER 541UT
ANODIZED ALUMINUM

CAST STONE - LIGHT GUNPOWDER
STOREFRONT SILLS

DARK BRONZE
TRIM, NON-CANOPY
STRUCTURE

CARDINAL GLASS LAMINATED GLASS
GLAZING INFILL COLORS - AS NOTED ABOVE

DIMENSION IV
Madison Design Group

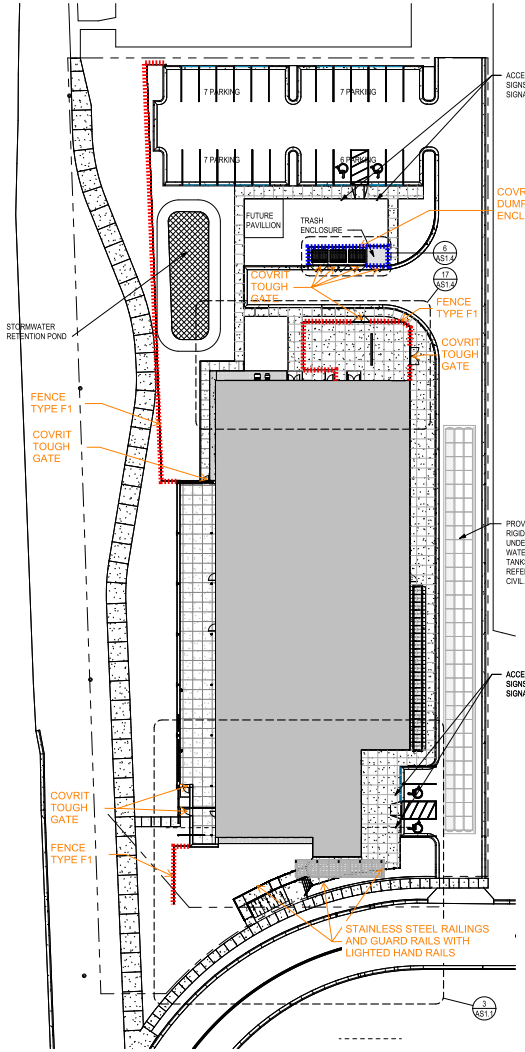
EXTERIOR FINISH BOARD

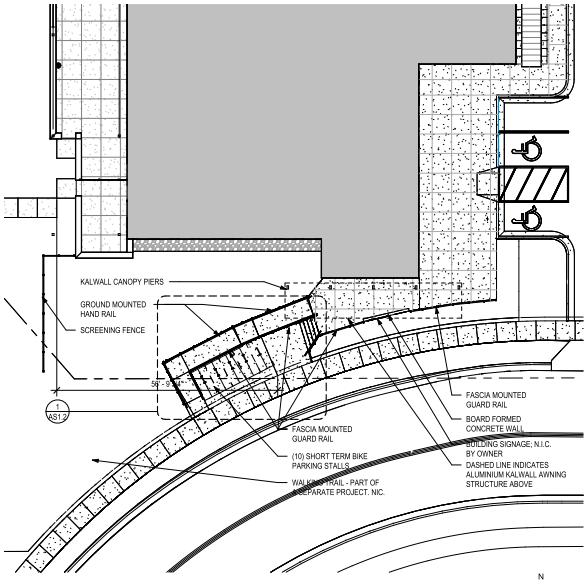
BARTILLON DRIVE HOMELESS SHELTER DESIGN PACKAGE

01

12/11/2023

FENCES, GATES, TRASH ENCLOSURES, SCREENING LOCATIONS AND TYPES





3 ENLARGED ARCH SITE PLAN - SOUTH
1/16" = 1'-0"

1 ARCH SITE PLAN
1/32" = 1'-0"

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ARCH SITE PLAN

AS1.1

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covrit®

SCREENING SYSTEMS

CityScapes®

ARCHITECTURAL INNOVATIONS

Pepper Construction HQ
Dublin, OH

COVRIT®

COVER ALL YOUR BASES

For any enclosure needs, Covrit® has your back, front, and sides. Covrit walls, gates, and dumpster enclosures redefine any space and are the go-to solution for hiding, protecting, or partitioning anything on your property.

HIGH-QUALITY CONSTRUCTION

Professional grade extruded aluminum frames with powder-coated finishes

TAILORED DIMENSIONS

Crafting Distinctive Spaces with Both Standard and Customized Designs

STREAMLINED INSTALLATION

Directly mounting to concrete slabs without the need for footings

TOUGHGATE™ INTEGRATION

ToughGate™ doors & gates used on every Covrit® enclosure

ENGINEERED WOOD INFILLS

- Frames are 6063 T6 extruded aluminum
- Woodgrain surface planks are 1” thick 100% cellular PVC or composite LLDPE
- 1/2” or 2 1/2” Extruded Aluminum Stiffeners
- Sherwin Williams 4000 Series Powder-Coated Components
- Optional digitally printed graphics with UV resistant Nazdar ink

Vertical Plank
(Standard Stiffener)

Vertical Plank
(Wide Stiffener)

DUMPSTER ENCLOSURE STYLE

Horizontal Plank
(Standard Stiffener)

Horizontal Plank
(Wide Stiffener)

THIS IMAGE SHOWS THE COLOR COMBINATION WITH THE PLANKS IN THE INCORRECT ORIENTATION

Ventilated PlankWall

PlankArt®

FRAME COLOR

BLACK TEXTURED

PANEL INFILL COLOR

DARK HICKORY

COLOR OPTIONS

WOODGRAIN SURFACE 1-SIDED

WOODGRAIN SURFACE 2-SIDED

Robbers Cave State Park
Wilburton, OK

ROOFTOP SOLUTIONS

Covrit® Roof Tops are engineered to excel in any weather. Its innovative design seamlessly allows rain, snow, and wind to pass through, ensuring the integrity of your rooftop and access to your dumpster enclosures. Crafted from robust ABS and extruded aluminum, it withstands the harshest weather elements while maintaining its visual allure.






ELEGANT. DURABLE. DISTINCTIVE.

ToughGate™ by CityScapes® offers expertly crafted gates and doors built to your specifications, budget and job site demands. We use only professional grade materials for years of maintenance free operation.

For stunning good looks, amazing longevity, and extraordinary first impressions, choose ToughGate™.

- **MAINTENANCE FREE MATERIALS**
- **SHIPPED PRE-ASSEMBLED FOR FAST INSTALLATION**
- **WIDE VARIETY OF DESIGN OPTIONS**

ToughGate™

ToughGate's™ innovative design makes field assembly fast and easy. All of our gates are shipped pre-assembled directly to your project site, accompanied by all required installation hardware. Our complete installation guides provide a clearly-defined process from start to finish.

Gates are available in heights of up to 14 ft* and widths of up to 20 ft** to accommodate almost any opening dimension.

* Maximum height determined by infill material and style selected.
** Contact a CityScapes® representative for details on our newest MegaGate options. Certain Height x Width limitations apply.

DOOR HANDLES

All ToughGate™ and Covrit® handles and hardware are powder coated and color-matched to the coordinating gate frame for superior aesthetics.

Bridge | Modern | Classic

MODERN LATCH

Our color matched, lockable latches are designed for years of maintenance free use.

Modern

CUSTOM DESIGNS

Don't see a style or color that fits our plan? No problem. We can color match many of our gate options or allow you to create a fully custom design. Print your image directly onto the gate or laser cut an intricate design into your gate. Have another idea? Let us know. We love a challenge.

PVC PLANK INFILL SERIES


Madison


Mission


Redondo


Augusta


Muir Woods


Sequoia


Ventilated Plankwall

PlankArt™

1-INCH PVC PLANK INFILL COLOR OPTIONS

Textured Woodgrain Surface On One Side Only


Brownstone


Kona


Slate Gray


Coastline


English Walnut


Dark Hickory


Weathered Teak


French White Oak

Textured Woodgrain Surface On Both Sides


Ashwood


Cedar


Sequoia


Slate

ENGINEERED WOOD INFILL SERIES SPECS

- Woodgrain surface 2 sided planks are 1” thick 100% cellular PVC
- Woodgrain surface 1 sided planks are 1” thick composite LLDPE

MILLED PVC INFILL SERIES


Potomac (PVC)


Flagstaff (PVC)

ACRYLICAP® ABS INFILL SERIES SPECS

- Acrylicap® uses a thermoformed .187 acrylic-capped ABS for UV protection

ALL GATES
- DUMPSTER ENCLOSURE GATES
- WEST PATIO FIRST FLOOR EGRESS GATES
- MECHANICAL ENCLOSURE GATES

METAL INFILL SERIES


7.2 Rib


Planar


Perforated


Perforated 7.2 Rib


Bahama Shutter


True Louver


Custom Graphic

METAL SERIES SPECS

- Structural material thickness varies depending on infill choice
- Typical 7.2 Rib Metal Panels - .040”, .050” Precoated aluminum
- Typical Perforated Metal Panels - .063” Aluminum, 1/8” holes, 1/4” staggered centers, 23% open area

For current color availability for metal wall styles, contact a CityScapes® representative.

SLAT WALL INFILL SERIES


4-Inch Slat Wall (Mission Style)


4-Inch Slat Wall (Madison Style)


6-Inch Slat Wall (Mission Style)


6-Inch Slat Wall (Madison Style)

SLAT SERIES SPECS

- Powder coated aluminum slats
- 1”x 4” - .080” Wall thickness
- 1”x 6” - .100” Wall thickness
- 6063 T6 Aluminum
- 4000 Series powder coated

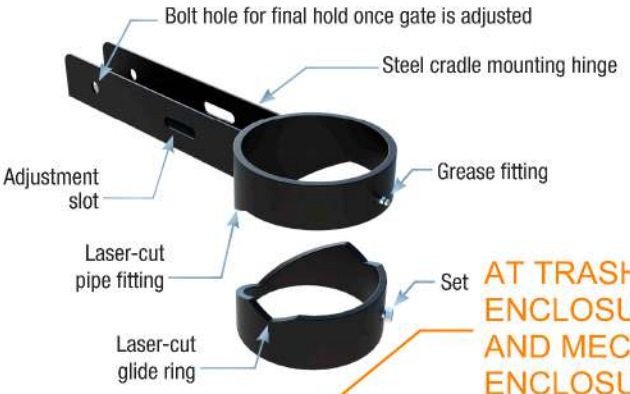
For current color availability for slat wall styles, contact a CityScapes® representative.

CRADLE HINGE OPTIONS - New and Retrofitted Installations

Choose from our fully adjustable hinge options. We recommend installation using our hold-open pipe hinge which offers a convenient and enhanced safety feature to "hold open" your gate; reducing injuries as well as damage to your property. Alternative hinge options to retrofit to your existing post or wall are shown below.

HOLD-OPEN PIPE HINGE

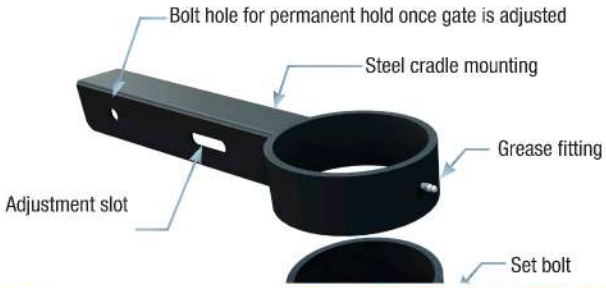
- Pre-welded steel construction
- Laser-cut rings nest and work together to provide a 100° hold-open gate position. Gate will automatically close prior to 100°.
- Adjustment slot in cradle to help level door on pipe.
- Grease fitting included
- Powder coated to match frame



AT TRASH ENCLOSURE GATES AND MECHANICAL ENCLOSURE GATES

ADJUSTABLE PIPE HINGE

- Pre-welded steel construction
- Adjustment slot in cradle to help level door on pipe.
- Grease fittings included
- Powder coated to match frame



Standard glide ring

AT WEST PATIO FIRST FLOOR GATES. PANIC BAR EGRESS HARDWARE (NOT SHOWN)

BARREL HINGE

(retrofit for square post or wall mount)

- Set bolts in post included for setting gate height off grade.
- Pre-welded steel gate frame saddle to barrel hinge. Barrel hinge leaf side requires field welding to structure or can be made to bolt onto structure after engineering review.
- Powder coated to match gate frame
- Steel or Aluminum construction available (Material used is determined by weight)

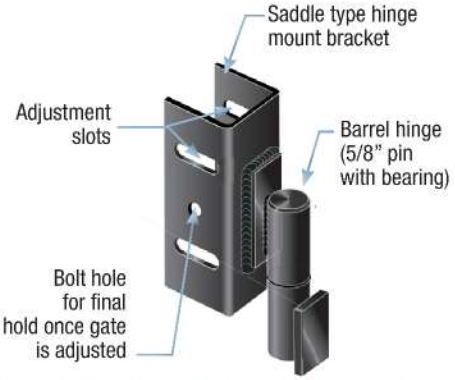
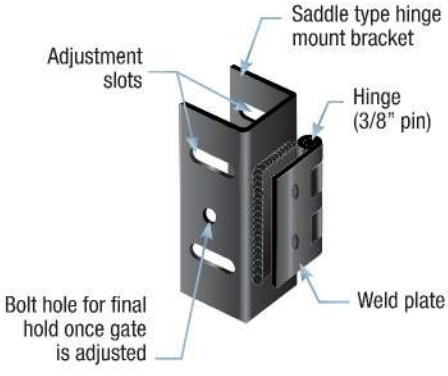


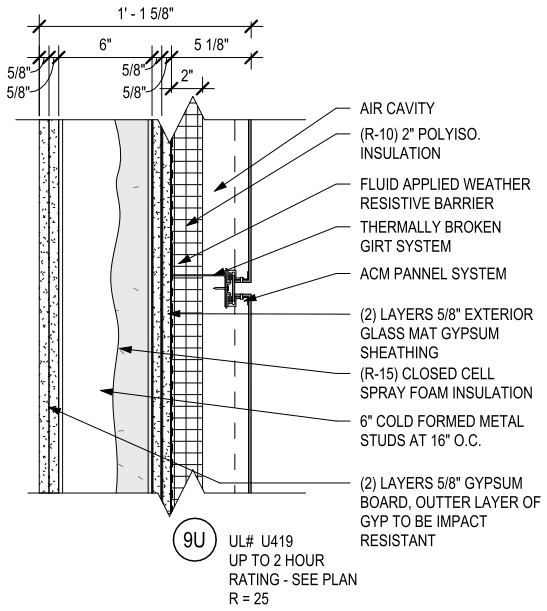
PLATE HINGE

(retrofit for square post or wall mount)

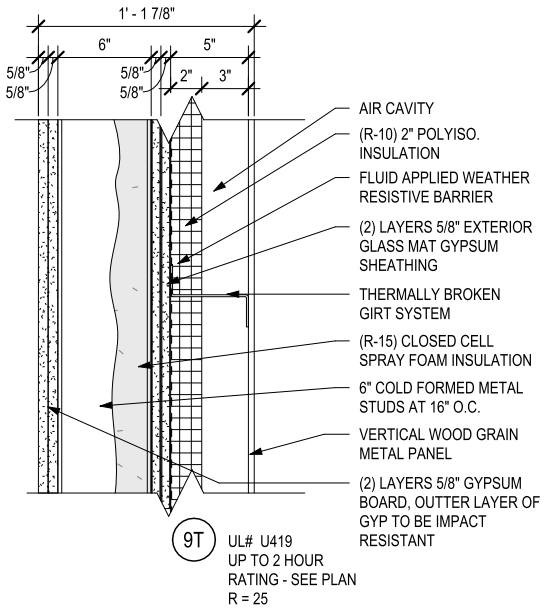
- Set bolts in post included for setting gate height off grade.
- Pre-welded steel gate frame saddle to barrel hinge. Barrel hinge leaf side requires field welding to structure or can be made to bolt onto structure after engineering review.
- Powder coated to match gate frame
- Steel or Aluminum construction available (Material used is determined by weight)



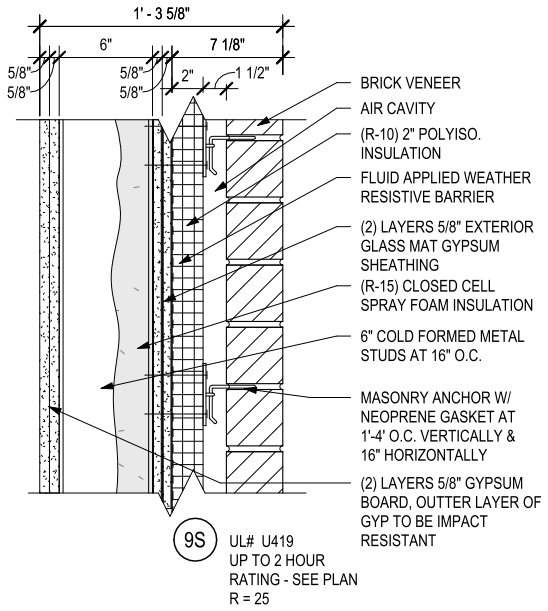
MATERIAL TRANSITIONS
WALL ASSEMBLIES



ACM WALL TYPE

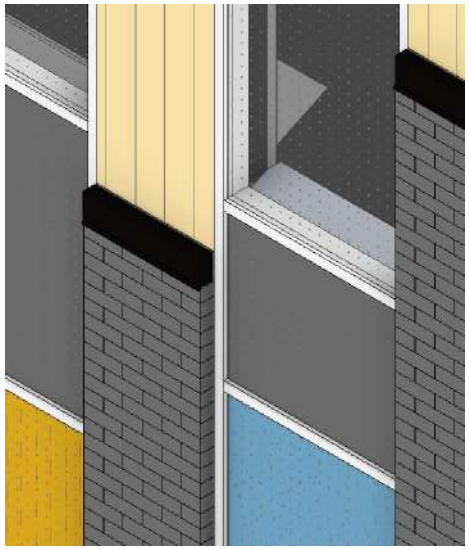


WOOD LOOK VERTICAL METAL PANEL WALL TYPE

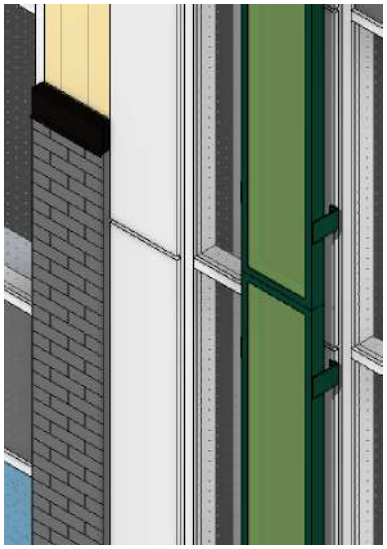


MASONRY VENEER WALL TYPE

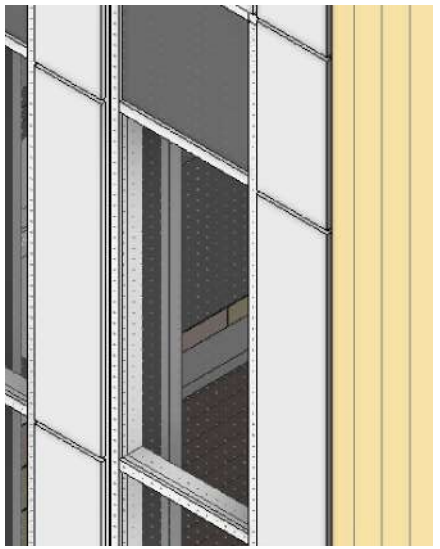
MATERIAL TRANSITIONS
3D VIEWS



MASONRY TO VERTICAL METAL PANEL, TRANSITION AT STOREFRONT GLAZING



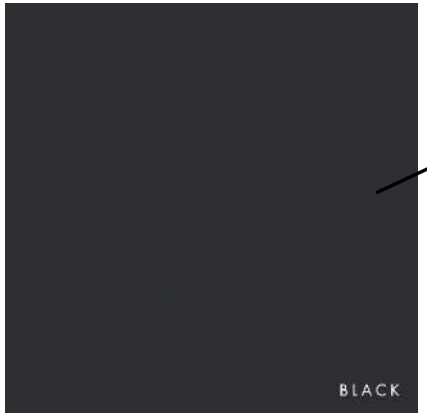
MASONRY TO VERTICAL METAL PANEL TO ACM AT STOREFRONT AND LIVING WALL TRELLIS



ACM TO VERTICAL METAL PANEL AT STOREFRONT

INFILL MATERIAL
LUX FAWN (MATCHES VERTICAL METAL PANELS AT BUILDING)

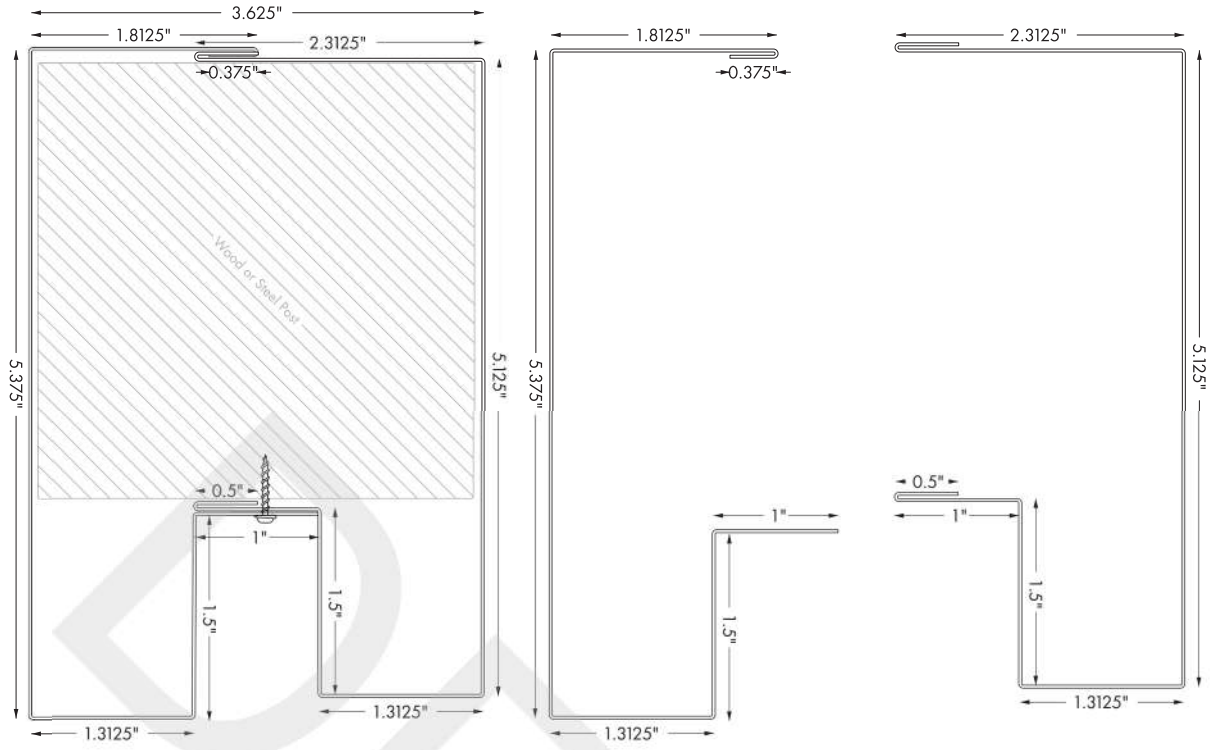
POSTS AND RAILS
LUX



SITE FENCE TYPE F1
MATERIALS

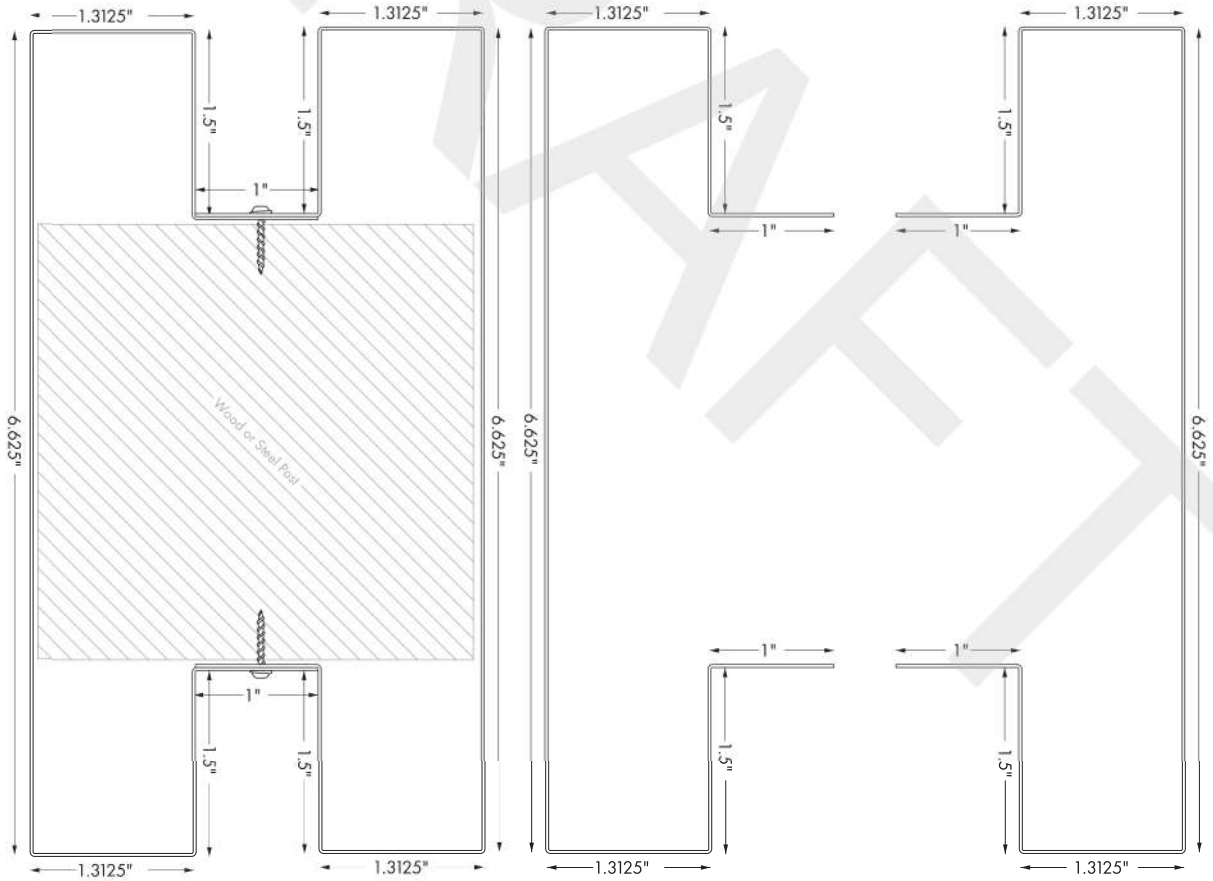
END POST

AVAILABLE IN 10' OR 13' LENGTHS



MIDDLE POST

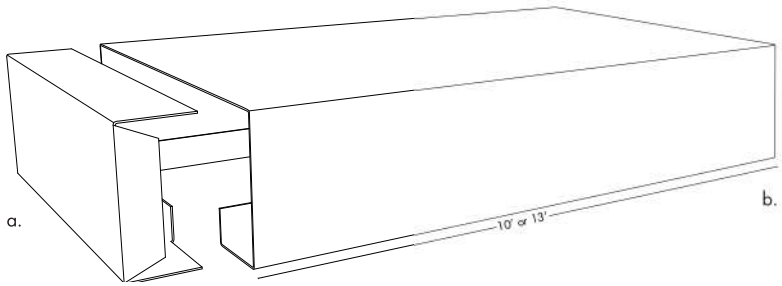
AVAILABLE IN 10' OR 13' LENGTHS

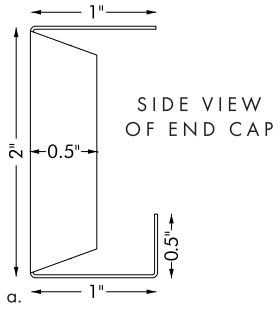


DRAFT

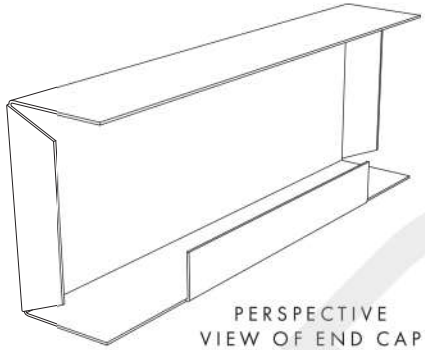
LUX ARCHITECTURAL PANEL **WARM TIMELESS DURABLE** luxpanel.ca	**PROJECT:** LUX Fence	**DESCRIPTION:** Privacy Fence, Version 1	**PAGE:** 1/5
	DRAWING: Concept	**DATE:** March 27, 2018	

DECORATIVE TOP CAP
AVAILABLE IN 10' OR 13' LENGTHS





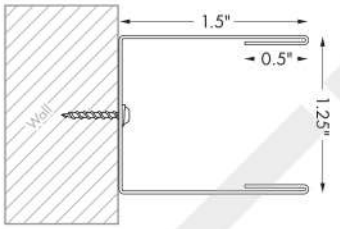
SIDE VIEW
OF END CAP



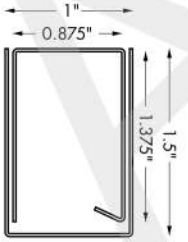
PERSPECTIVE
VIEW OF END CAP

FRONT VIEW OF
DECORATIVE CAP

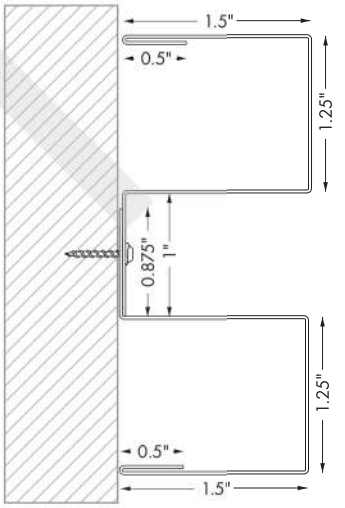
SIMPLE WALL MOUNT
AVAILABLE IN 10' OR 13' LENGTHS



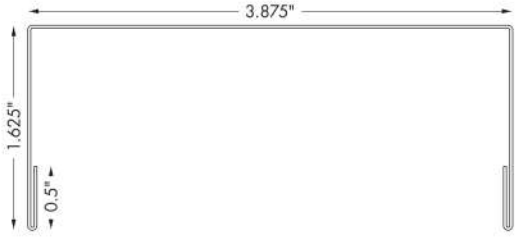
SPACER TRIM
AVAILABLE IN 10' LENGTHS ONLY



DELUXE WALL MOUNT
AVAILABLE IN 10' OR 13' LENGTHS



SMALL TOP CAP
AVAILABLE IN 10' OR 13' LENGTHS



DRAFT

PAGE: 2/5

DESCRIPTION: Privacy Fence, Version 1

DATE: March 27, 2018

PROJECT: LUX Fence

DRAWING: Concept

LUX ARCHITECTURAL PANEL

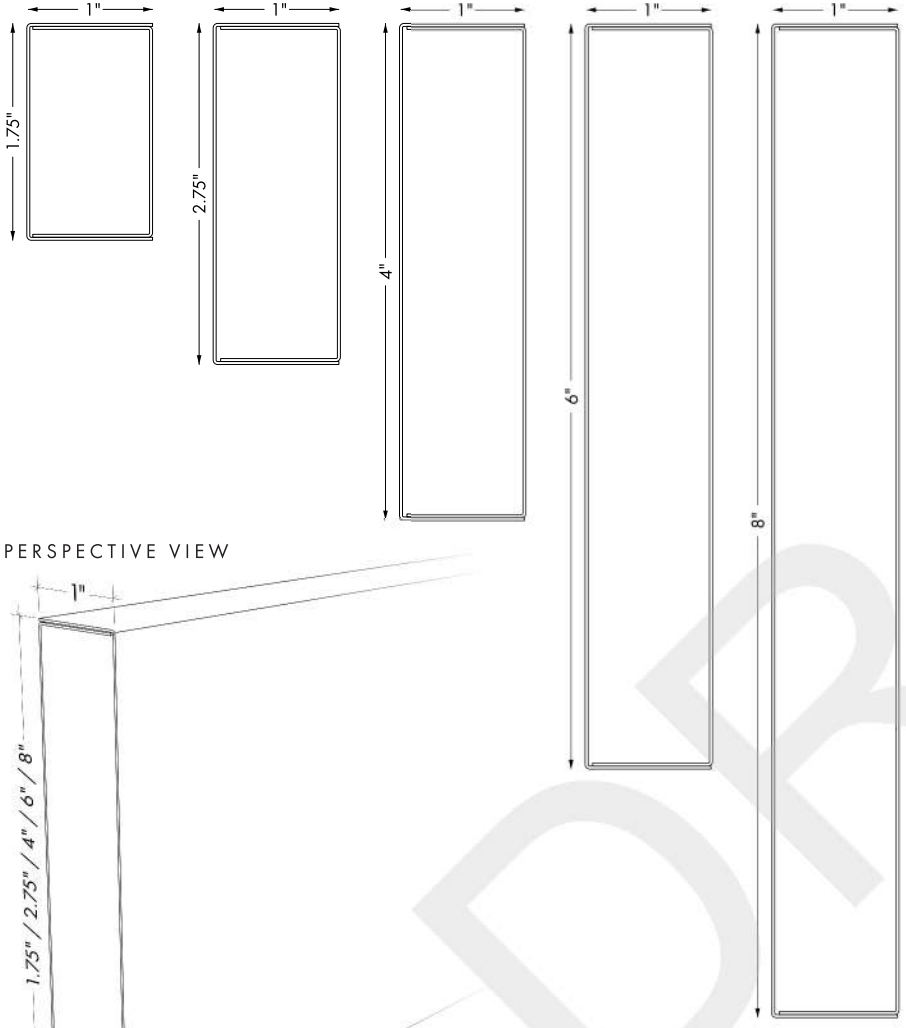
WARM
TIMELESS
DURABLE

luxpanel.ca

FENCE BOARDS

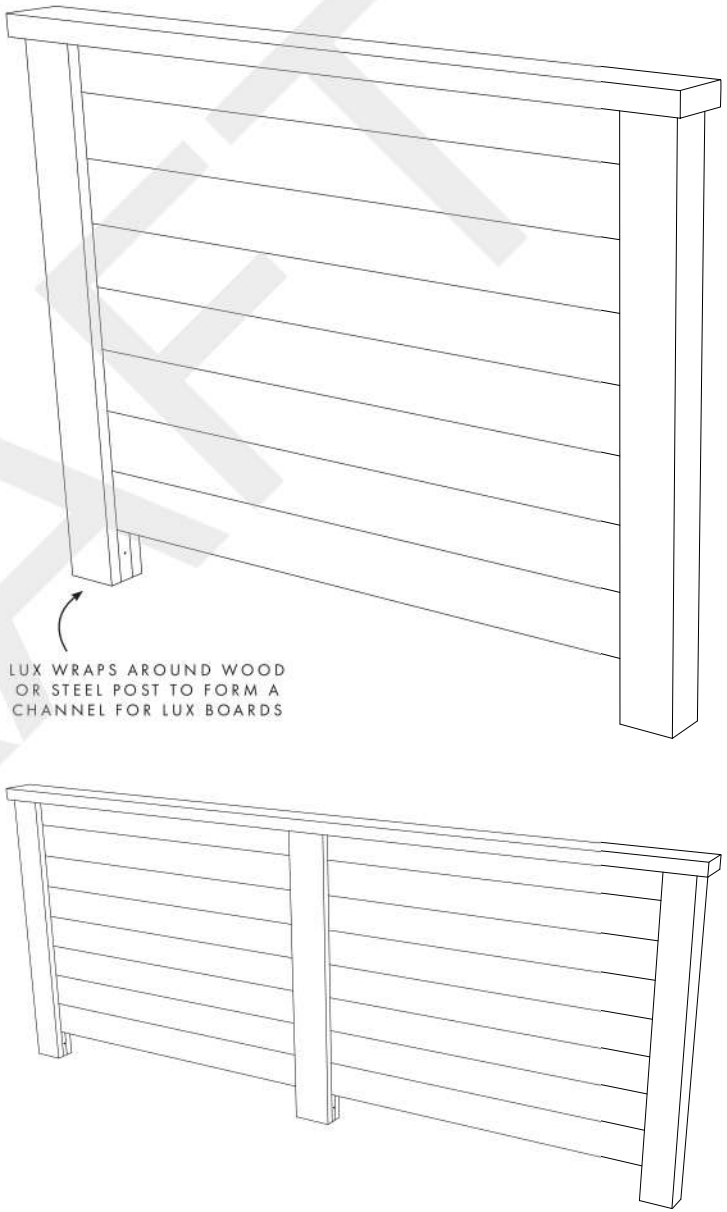
AVAILABLE IN 10' OR 13' LENGTHS

SIDE VIEW



PERSPECTIVE VIEW

FINAL PRODUCT



LUX WRAPS AROUND WOOD OR STEEL POST TO FORM A CHANNEL FOR LUX BOARDS

DRAFT

PAGE: 3 / 5

DESCRIPTION: Privacy Fence, Version 1

DATE: March 27, 2018

PROJECT: LUX Fence

DRAWING: Concept

LUX ARCHITECTURAL PANEL

WARM
TIMELESS
DURABLE

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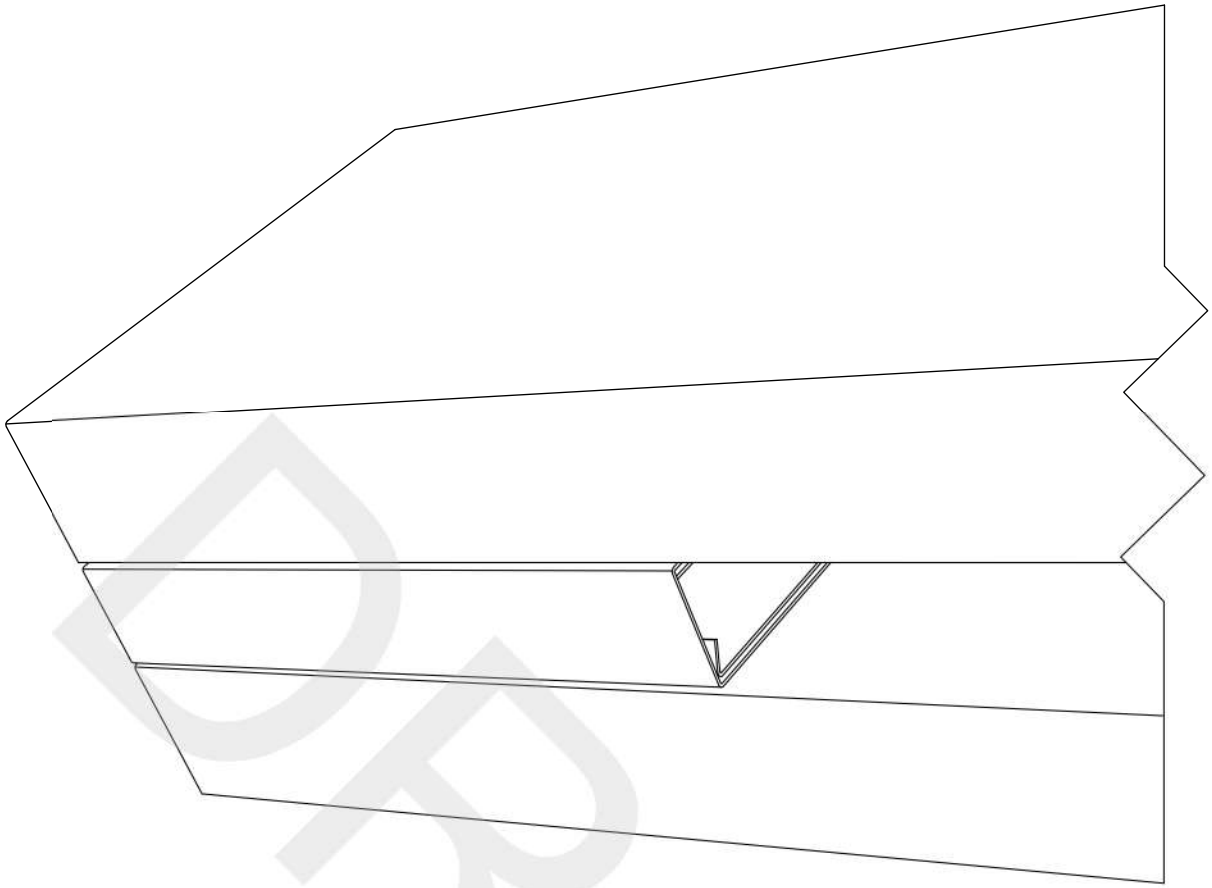
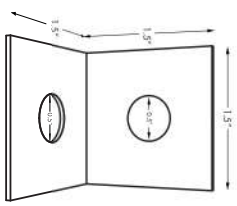
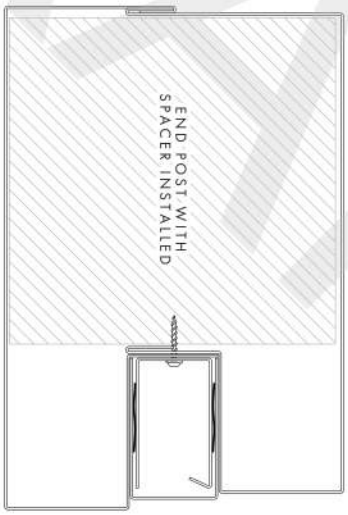
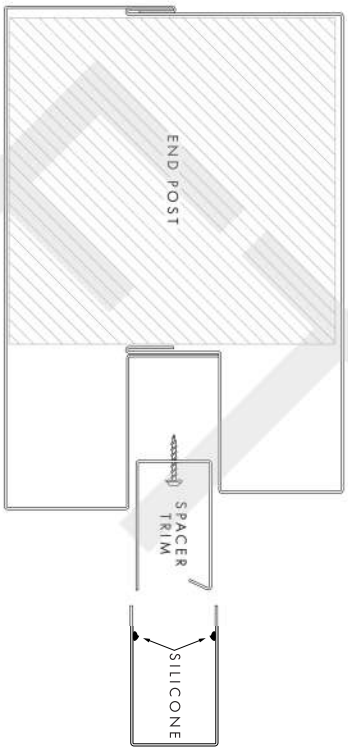
SPACER INSTALL





L-FASTENER

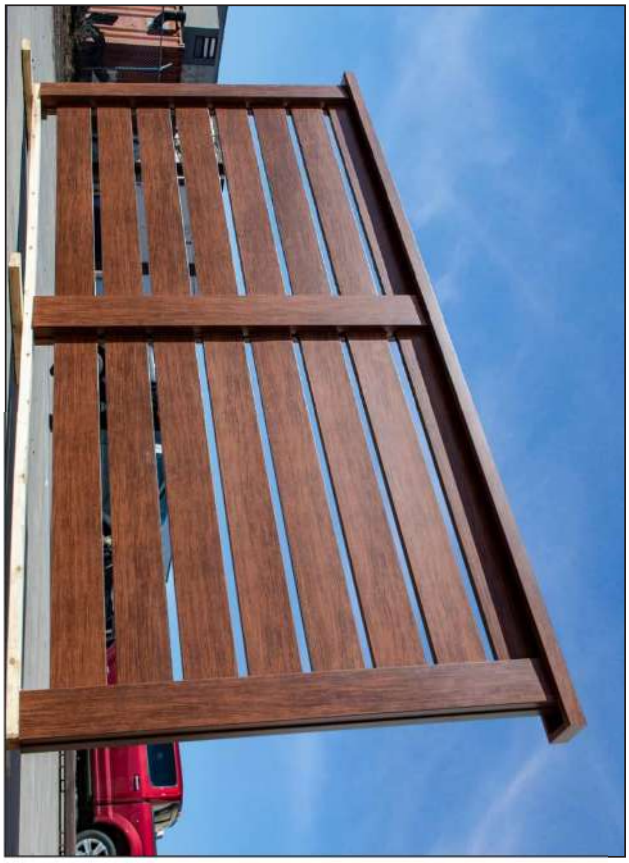




SPACER TRIM

DRAFT

LUX ARCHITECTURAL PANEL **WARM TIMELESS DURABLE** luxpanel.ca	**PROJECT:** LUX Fence	**DESCRIPTION:** Privacy Fence, Version 1	**PAGE:** 4/5
	DRAWING: Concept	**DATE:** March 27, 2018	



LUX
ARCHITECTURAL PANEL

WARM
TIMELESS
DURABLE

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PROJECT:
LUX Fence

DESCRIPTION:
Privacy Fence, Version 1

DRAWING:
Concept

DATE:
March 27, 2018

PAGE:
5/5

MGO 29.36 Feedback responses

(3) General Requirements .

(a) All outdoor lighting fixtures installed and thereafter maintained upon private or public residential, commercial, industrial and other nonresidential property shall comply with the following:

1. The maximum allowable light trespass shall be 0.5 horizontal footcandles four (4) feet above the ground. The point of measurement of this offending light shall be at any point at the outer wall of an adjacent building occupied for residential or public use, or at any point greater than 10 feet from the adjacent lot line. This measurement shall not include any ambient, natural light.

   IBC: Maximum design footcandles 10 ft from the property line is 0.25 fc. Plans will be modified to clearly identify the 10 ft line and the max footcandles at that boundary.

2. All fixtures greater than 500 initial lumens (equivalent to 40 watts incandescent or 8 watt LED) shall be full cutoff, or shall be shielded or installed so that there is not a direct line of sight between the light source or its reflection and a point five (5) feet or higher above the ground at the property boundary. The light source shall not be of such intensity so as to cause discomfort or annoyance.

   IBC: All fixtures are full cutoff except type OWE. Fixture schedule will be amended to clarify the fixtures that are full cutoff. With respect to fixture OWE, the delivered lumens are less than 500 (155 delivered lumens) and does not throw enough light to make a significant contribution at nearest property lines, as it is a steplight at a low mounting height (10.5”) and includes a louver.

3. Any outdoor lighting fixture installed on a parking lot, parking structure or outdoor merchandizing area shall use either high-pressure sodium, metal halide, fluorescent lamps, or any other lamps that produce thirty (30) or more lumens per watt. The lighting system shall be extinguished or reduced to fifty percent (50%) no later than thirty (30) minutes after the close of business for the day or after the end of normal office hours for the majority of employees.

   IBC: All fixtures produce more than 30 lumens per watt. Fixture schedule will be amended to clarify this.
   The controls will dim by 50% or more but this is a 24 hour facility that will see steady usage during the entire night. Motion sensors are used to reduce lighting for parking lot when not in use. Plans will be modified to clarify control intent.

4. All lamp types utilized for search lighting and/or spot lighting for advertising purposes shall not be operated past 11:00 p.m.

   IBC: There is no lighting for “advertising” purposes at this time. This requirement does not apply.

MGO 29.36 Feedback responses

(4) Specific Design Requirements

(a) Open Parking Facilities

(1) Low Activity

IBC: The lighting design is based on meeting the requirements for Open Parking Facilities with “Low” Level of Activity. The design lighting levels indicated in the table below are indicated in the Calculation Summary on Sheet EL002. The Calculation Summary will be adjusted to make compliance more clear.

(b) An outdoor lighting system for illuminating buildings and structures shall have a maximum connected lighting load of five (5) watts per lineal foot. Watts shall mean lamp wattage and ballast consumption. Such lighting shall be shielded or installed so as to illuminate the building, and not the sky.

All lights are intended to illuminate walkways, drives, and parking lot. There is no façade lighting. This requirement does not apply.

(e) The maximum initial illumination level under an outdoor canopy shall not exceed 50 footcandles at any point.

This requirement is being met. Exterior illumination level does not exceed 50 fc at any point.

D-Series Size 1
LED Area Luminaire

Catalog Number

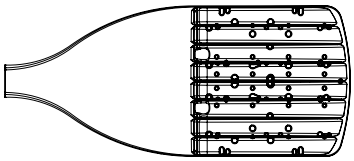
Notes

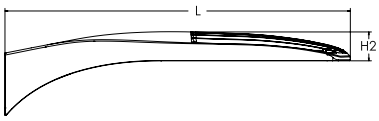
Type TYPE OAA, OAB

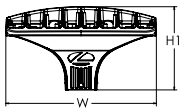
Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

EPA:	0.69 ft² (0.06 m²)
Length:	32.71" (83.1 cm)
Width:	14.26" (36.2 cm)
Height H1:	7.88" (20.0 cm)
Height H2:	2.73" (6.9 cm)
Weight:	34 lbs (15.4 kg)







Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: DSX1 LED P7 40K 70CRI T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX1 LED

Series	LEDs	Color temperature[2]	Color Rendering Index[2]	Distribution	Voltage	Mounting
DSX1 LED	**Forward optics** P1 P6 P2 P7 P3 P8 P4 P9 P5 **Rotated optics** P10[1] P12[1] P11[1] P13[1]	(this section 70CRI only) 30K 3000K 40K 4000K 50K 5000K (this section 80CRI only, extended lead times apply) 27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K 5000K	70CRI 70CRI 70CRI 80CRI 80CRI 80CRI 80CRI 80CRI	AFR Automotive front row T1S Type I short T2M Type II medium T3M Type III medium T3LG Type III low glare[3] T4M Type IV medium T4LG Type IV low glare[3] TFTM Forward throw medium T5M Type V medium T5LG Type V low glare T5W Type V wide BLC3 Type III backlight control[3] BLC4 Type IV backlight control[3] LCCO Left corner cutoff[3] RCCO Right corner cutoff[3]	MVOLT (120V-277V)[4] HVOLT (347V-480V)[5,6] XVOLT (277V - 480V)[7,8]	**Shipped included** SPA Square pole mounting (#8 drilling) RPA Round pole mounting (#8 drilling) SPA5 Square pole mounting #5 drilling[9] RPA5 Round pole mounting #5 drilling[9] SPA8N Square narrow pole mounting #8 drilling WBA Wall bracket[10]

OAB

OAA

Control options		Other options	Finish *(required)*
Shipped installed NLTAIR2 PIRHN nLight AIR gen 2 enabled with bi-level motion / ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc.[11,12,20,21] PIR High/low, motion/ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc[13,20,21] PER NEMA twist-lock receptacle only (controls ordered separate)[14] PER5 Five-pin receptacle only (controls ordered separate)[14,21] PER7 Seven-pin receptacle only (controls ordered separate)[14,21] FAO Field adjustable output[15,21] BL30 Bi-level switched dimming, 30%[16,21] BL50 Bi-level switched dimming, 50%[16,21] DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately)[17] DS Dual switching[18,19,21]		**Shipped installed** SPD20KV 20KV surge protection HS Houseside shield (black finish standard)[22] L90 Left rotated optics[1] R90 Right rotated optics[1] CCE Coastal Construction[23] **Shipped separately** EGSR External Glare Shield (reversible, field install required, matches housing finish) BSDB Bird Spikes (field install required)	DDBXD Dark Bronze DBLXD Black DNAXD Natural Aluminum DWHXD White DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white TBD

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Ordering Information

Accessories

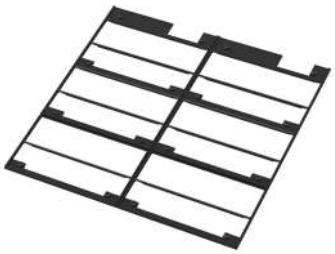
Ordered and shipped separately.

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) [24]
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) [24]
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) [24]
DSHORT SBK	Shorting cap [24]
DSX1HS P#	House-side shield (enter 1-13 in place of #)
DSXRPA (FINISH)	Round pole adapter (#8 drilling, specify finish)
DSXSPA5 (FINISH)	Square pole adapter #5 drilling (specify finish)
DSXRPA5 (FINISH)	Round pole adapter #5 drilling (specify finish)
DSX1EGS (FINISH)	External glare shield

NOTES
1 Rotated optics available with packages P10, P11, P12 and P13. Must be combined with option L90 or R90.
2 30K, 40K, and 50K available in 70CRI and 80CRI. 27K and 35K only available with 80CRI. Contact Technical Support for other possible combinations.
3 T3LG, T4LG, BLC3, BLC4, LCCO, RCCO not available with option HS.
4 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
5 HVOLT driver operates on any line voltage from 347-480V (50/60 Hz).
6 HVOLT not available with package P1 and P10 when combined with option NLTAIR2 PIRHN or option PIR.
7 XVOLT operates with any voltage between 277V and 480V (50/60 Hz).
8 XVOLT not available in packages P1 or P10.
9 SPA5 and RPA5 for use with #5 drilling only (Not for use with #8 drilling).
10 WBA cannot be combined with Type 5 distributions plus photocell (PER).
11 NLTAIR2 and PIRHN must be ordered together. For more information on nLight AIR2 visit this link
12 NLTAIR2 PIRHN not available with other controls including PIR, PER, PER5, PER7, FAO, BL30, BL50, DMG and DS. NLTAIR2 PIRHN not available with P1 and P10 using HVOLT. NLTAIR2 PIRHN not available with P1 and P10 using XVOLT.
13 PIR not available with NLTAIR2 PIRHN, PER, PER5, PER7, FAO BL30, BL50, DMG and DS. PIR not available with P1 and P10 using HVOLT. PIR not available with P1 and P10 using XVOLT.
14 PER/PER5/PER7 not available with NLTAIR2 PIRHN, PIR, BL30, BL50, FAO, DMG and DS. Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included.
15 FAO not available with other dimming control options NLTAIR2 PIRHN, PIR, PER5, PER7, BL30, BL50, DMG and DS.
16 BL30 and BL50 are not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, FAO, DMG and DS.
17 DMG not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50, FAO and DS.
18 DS not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50, FAO and DMG.
19 DS requires (2) separately switched circuits. DS provides 50/50 fixture operation via (2) different sets of leads using (2) drivers. DS only available with packages P8, P9, P10, P11, P12 and P13.
20 Reference Motion Sensor Default Settings table on page 4 to see functionality.
21 Reference Controls Options table on page 4.
22 HS not available with T3LG, T4LG, BLC3, BLC4, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
23 CCE option not available with option BS and EGS. Contact Technical Support for availability.
24 Requires luminaire to be specified with PER, PER5 or PER7 option. See Controls Table on page 4.

Shield Accessories

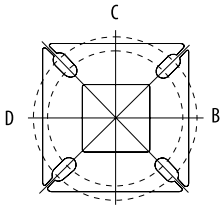
External Glare Shield (EGS)

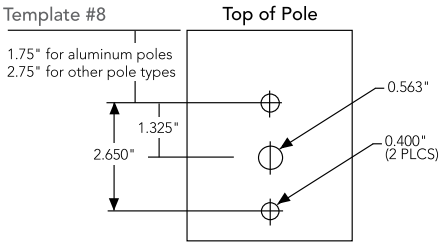


House Side Shield (HS)

Drilling

HANDHOLE ORIENTATION





Tenon Mounting Slipfitter

Tenon O.D.	Mounting	Single Unit	2 @ 180	2 @ 90	3 @ 90	3 @120	4 @ 90
2-3/8"	RPA	AS3-5 190	AS3-5 280	AS3-5 290	AS3-5 390	AS3-5 320	AS3-5 490
2-7/8"	RPA	AST25-190	AST25-280	AST25-290	AST25-390	AST25-320	AST25-490
4"	RPA	AST35-190	AST35-280	AST35-290	AST35-390	AST35-320	AST35-490

Mounting Option	Drilling Template	Single	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
Head Location		Side B	Side B & D	Side B & C	Side B, C & D	Round Pole Only	Side A, B, C & D
Drill Nomenclature	#8	DM19AS	DM28AS	DM29AS	DM39AS	DM32AS	DM49AS
		Minimum Acceptable Outside Pole Dimension					
SPA	#8	3.5"	3.5"	3.5"	3.5"		3.5"
RPA	#8	3"	3"	3"	3"	3"	3"
SPA5	#5	3"	3"	3"	3"		3"
RPA5	#5	3"	3"	3"	3"	3"	3"
SPA8N	#8	3"	3"	3"	3"		3"

DSX1 Area Luminaire - EPA

*Includes luminaire and integral mounting arm. Other tenons, arms, brackets or other accessories are not included in this EPA data.

Fixture Quantity & Mounting Configuration	Single DM19	2 @ 180 DM28	2 @ 90 DM29	3 @ 90 DM39	3 @ 120 DM32	4 @ 90 DM49
Mounting Type						
DSX1 with SPA	0.69	1.38	1.23	1.54	---	1.58
DSX1 with SPA5, SPA8N	0.70	1.40	1.30	1.66	---	1.68
DSX1 with RPA, RPA5	0.70	1.40	1.30	1.66	1.60	1.68
DSX1 with MA	0.83	1.66	1.50	2.09	2.09	2.09

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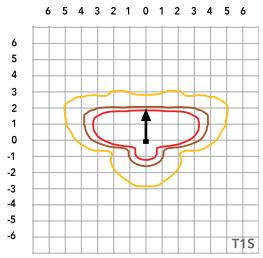
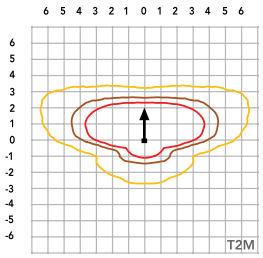
Photometric Diagrams

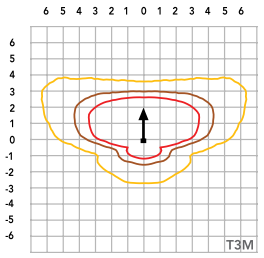
To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's homepage.

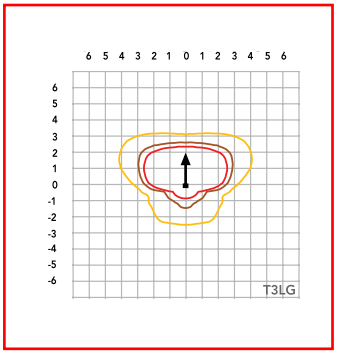
Isofootcandle plots for the DSX1 LED P9 40K 70CRI. Distances are in units of mounting height (25').

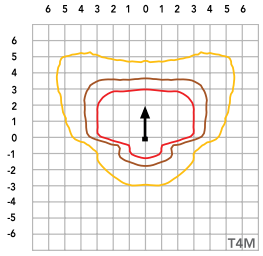
LEGEND
- 0.1 fc
- 0.5 fc
- 1.0 fc

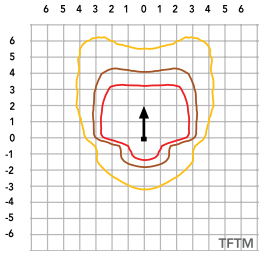


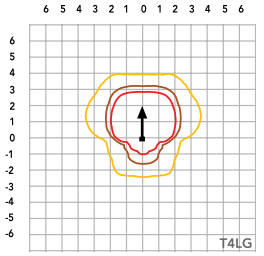


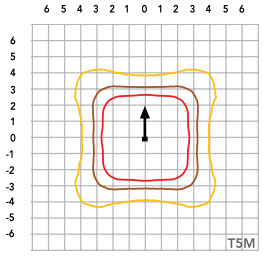


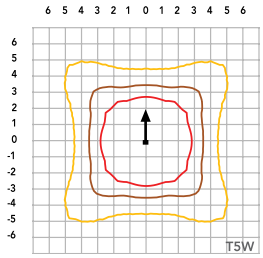


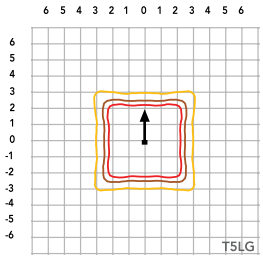


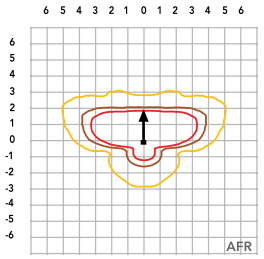


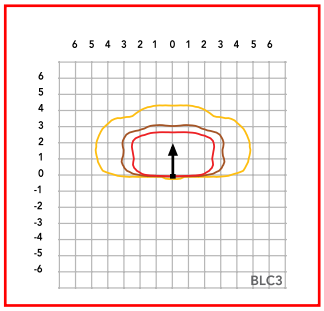


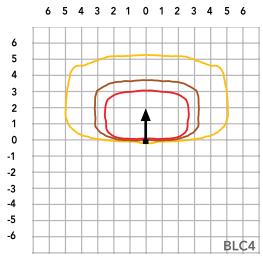


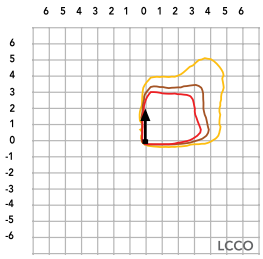


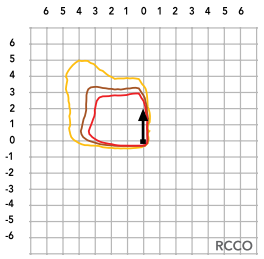












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Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.04
5°C	41°F	1.04
10°C	50°F	1.03
15°C	50°F	1.02
20°C	68°F	1.01
25°C	**77°C**	**1.00**
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	Lumen Maintenance Factor
0	1.00
25,000	0.95
50,000	0.90
100,000	0.81

FAO Dimming Settings

FAO Position	% Wattage	% Lumen Output
8	100%	100%
7	93%	95%
6	80%	85%
5	66%	73%
4	54%	61%
3	41%	49%
2	29%	36%
1	15%	20%

*Note: Calculated values are based on original performance package data. When calculating new values for given FAO position, use maximum published values by package listed on specification sheet (input watts and lumens by optic type).

Electrical Load

	Performance Package	LED Count	Drive Current (mA)	Wattage	Current (A) 120V	208V	240V	277V	347V	480V
Forward Optics (Non-Rotated)	P1	30	530	51	0.42	0.24	0.21	0.18	0.15	0.11
	P2	30	700	68	0.56	0.33	0.28	0.24	0.20	0.14
	P3	30	1050	104	0.85	0.49	0.43	0.37	0.29	0.21
	P4	30	1250	125	1.03	0.60	0.52	0.45	0.36	0.26
	P5	30	1400	142	1.15	0.66	0.58	0.50	0.40	0.29
	P6	40	1250	167	1.38	0.79	0.69	0.60	0.48	0.34
	P7	40	1400	188	1.54	0.89	0.77	0.67	0.53	0.38
	P8	60	1100	216	1.80	1.04	0.90	0.78	0.62	0.45
	P9	60	1400	279	2.31	1.33	1.15	1.00	0.80	0.58
Rotated Optics (Requires L90 or R90)	P10	60	530	101	0.84	0.49	0.42	0.37	0.29	0.21
	P11	60	700	135	1.12	0.65	0.56	0.49	0.39	0.28
	P12	60	1050	206	1.72	0.99	0.86	0.74	0.59	0.43
	P13	60	1400	279	2.30	1.33	1.15	1.00	0.79	0.57

LED Color Temperature / Color Rendering Multipliers

	70 CRI		80CRI		90CRI	
	Lumen Multiplier	Availability	Lumen Multiplier	Availability	Lumen Multiplier	Availability
5000K	102%	Standard	92%	Extended lead-time	71%	(see note)
4000K	100%	Standard	92%	Extended lead-time	67%	(see note)
3500K	100%	(see note)	90%	Extended lead-time	63%	(see note)
3000K	96%	Standard	87%	Extended lead-time	61%	(see note)
2700K	94%	(see note)	85%	Extended lead-time	57%	(see note)

Note: Some LED types are available as per special request. Contact Technical Support for more information.

Motion Sensor Default Settings

Option	Unoccupied Dimmed Level	High Level (when occupied)	Phototcell Operation	Dwell Time	Ramp-up Time	Dimming Fade Rate
PIR	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min
NLTAIR2 PIRHN	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min

Controls Options

Nomenclature	Description	Functionality	Primary control device	Notes
FAO	Field adjustable output device installed inside the luminaire; wired to the driver dimming leads.	Allows the luminaire to be manually dimmed, effectively trimming the light output.	FAO device	Cannot be used with other controls options that need the 0-10V leads
DS (not available on DSX0)	Drivers wired independently for 50/50 luminaire operation	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drivers	Requires two separately switched circuits. Consider nLight AIR as a more cost effective alternative.
PER5 or PER7	Twist-lock photocell receptacle	Compatible with standard twist-lock photocells for dusk to dawn operation, or advanced control nodes that provide 0-10V dimming signals.	Twist-lock photocells such as DLL Elite or advanced control nodes such as ROAM.	Pins 4 & 5 to dimming leads on driver, Pins 6 & 7 are capped inside luminaire. Cannot be used with other controls options that need the 0-10V leads.
PIR	Motion sensor with integral photocell. Sensor suitable for 8' to 40' mounting height.	Luminaires dim when no occupancy is detected.	Acuity Controls rSBG	Cannot be used with other controls options that need the 0-10V leads.
NLTAIR2 PIRHN	nLight AIR enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor over-ride when wirelessly connected to the nLight Eclypse.	nLight Air rSBG	nLight AIR sensors can be programmed and commissioned from the ground using the CIAIRity Pro app. Cannot be used with other controls options that need the 0-10V leads.
BL30 or BL50	Integrated bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output	BLC device provides input to 0-10V dimming leads on all drivers providing either 100% or dimmed (30% or 50%) control by a secondary circuit	BLC UVOLT1	BLC device is powered off the 0-10V dimming leads, thus can be used with any input voltage from 120 to 480V

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Performance Data

Lumen Output

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Forward Optics

LED Count	Drive Current (mA)	Performance Package	System Watts	Distribution Type	30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
30	530	P1	51W	T1S	7,776	1	0	2	153	8,104	1	0	2	159	8,262	1	0	2	162
				T2M	7,203	1	0	3	142	7,507	2	0	3	147	7,653	2	0	3	150
				T3M	7,287	1	0	3	143	7,594	1	0	3	149	7,742	1	0	3	152
				T3LG	6,509	1	0	1	128	6,783	1	0	1	133	6,916	1	0	1	136
				T4M	7,395	1	0	3	145	7,707	1	0	3	151	7,857	1	0	3	154
				T4LG	6,726	1	0	1	132	7,010	1	0	1	138	7,146	1	0	1	140
				TFTM	7,446	1	0	3	146	7,760	1	0	3	152	7,912	1	0	3	155
				T5M	7,609	3	0	2	149	7,930	3	0	2	156	8,084	3	0	2	159
				T5W	7,732	3	0	2	152	8,058	4	0	2	158	8,215	4	0	2	161
				T5LG	7,631	3	0	1	150	7,953	3	0	1	156	8,108	3	0	1	159
				BLC3	5,300	0	0	2	104	5,524	0	0	2	109	5,631	0	0	2	111
				BLC4	5,474	0	0	3	108	5,705	0	0	3	112	5,816	0	0	3	114
				RCCO	5,348	0	0	2	105	5,573	0	0	2	109	5,682	0	0	2	112
				LCCO	5,348	0	0	2	105	5,573	0	0	2	109	5,682	0	0	2	112
				AFR	7,776	1	0	2	153	8,104	1	0	2	159	8,262	1	0	2	162
30	700	P2	68W	T1S	9,997	1	0	2	147	10,418	1	0	2	154	10,621	1	0	2	157
				T2M	9,260	2	0	3	137	9,651	2	0	3	142	9,839	2	0	3	145
				T3M	9,368	2	0	3	138	9,763	2	0	3	144	9,953	2	0	3	147
				T3LG	8,368	1	0	2	123	8,721	1	0	2	129	8,891	1	0	2	131
				T4M	9,507	2	0	3	140	9,909	2	0	3	146	10,102	2	0	3	149
				T4LG	8,647	1	0	2	128	9,012	1	0	2	133	9,187	1	0	2	136
				TFTM	9,573	2	0	3	141	9,977	2	0	3	147	10,172	2	0	3	150
				T5M	9,782	4	0	2	144	10,195	4	0	2	150	10,393	4	0	2	153
				T5W	9,940	4	0	2	147	10,360	4	0	2	153	10,562	4	0	2	156
				T5LG	9,810	3	0	1	145	10,224	3	0	1	151	10,423	3	0	1	154
				BLC3	6,814	0	0	2	101	7,101	0	0	2	105	7,240	0	0	2	107
				BLC4	7,038	0	0	3	104	7,334	0	0	3	108	7,477	0	0	3	110
				RCCO	6,875	1	0	2	101	7,165	1	0	2	106	7,305	1	0	2	108
				LCCO	6,875	1	0	2	101	7,165	1	0	2	106	7,305	1	0	2	108
				AFR	9,997	1	0	2	147	10,418	1	0	2	154	10,621	1	0	2	157
30	1050	P3	102W	T1S	14,093	2	0	2	138	14,687	2	0	2	144	14,973	2	0	2	147
				T2M	13,055	2	0	3	128	13,605	2	0	3	133	13,871	2	0	3	136
				T3M	13,206	2	0	4	129	13,763	2	0	4	135	14,031	2	0	4	137
				T3LG	11,797	2	0	2	115	12,294	2	0	2	120	12,534	2	0	2	123
				T4M	13,403	2	0	4	131	13,968	2	0	4	137	14,241	2	0	4	139
				T4LG	12,190	2	0	2	119	12,704	2	0	2	124	12,952	2	0	2	127
				TFTM	13,496	2	0	4	132	14,065	2	0	4	138	14,339	2	0	4	140
				T5M	13,790	4	0	2	135	14,371	4	0	2	141	14,652	4	0	2	143
				T5W	14,013	4	0	3	137	14,605	4	0	3	143	14,889	4	0	3	146
				T5LG	13,830	3	0	2	135	14,413	3	0	2	141	14,694	3	0	2	144
				BLC3	9,606	0	0	2	94	10,011	0	0	2	98	10,206	0	0	2	100
				BLC4	9,921	0	0	3	97	10,340	0	0	3	101	10,541	0	0	3	103
				RCCO	9,692	1	0	2	95	10,101	1	0	2	99	10,298	1	0	2	101
				LCCO	9,692	1	0	2	95	10,101	1	0	2	99	10,298	1	0	2	101
				AFR	14,093	2	0	2	138	14,687	2	0	2	144	14,973	2	0	2	147

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Performance Data

Lumen Output

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Contact factory for performance data on any configurations not shown here.

Forward Optics

LED Count	Drive Current (mA)	Performance Package	System Watts	Distribution Type	30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
30	1250	**P4**	124W	T1S	16,416	2	0	3	132	17,109	2	0	3	138	17,442	2	0	3	141
				T2M	15,207	3	0	4	123	15,849	3	0	4	128	16,158	3	0	4	130
				T3M	15,383	2	0	4	124	16,032	2	0	4	129	16,345	2	0	4	132
				T3LG	13,742	2	0	2	111	14,321	2	0	2	116	14,600	2	0	2	118
				T4M	15,613	2	0	4	126	16,272	2	0	4	131	16,589	2	0	4	134
				T4LG	14,200	2	0	2	115	14,799	2	0	2	119	15,087	2	0	2	122
				TFTM	15,721	2	0	4	127	16,384	2	0	4	132	16,703	2	0	4	135
				T5M	16,063	4	0	2	130	16,741	4	0	2	135	17,067	4	0	2	138
				T5W	16,324	5	0	3	132	17,013	5	0	3	137	17,344	5	0	3	140
				T5LG	16,110	3	0	2	130	16,790	4	0	2	135	17,117	4	0	2	138
				BLC3	11,190	0	0	3	90	11,662	0	0	3	94	11,889	0	0	3	96
				BLC4	11,557	0	0	3	93	12,044	0	0	3	97	12,279	0	0	4	99
				RCCO	11,291	1	0	3	91	11,767	1	0	3	95	11,996	1	0	3	97
				LCCO	11,291	1	0	3	91	11,767	1	0	3	95	11,996	1	0	3	97
				AFR	16,416	2	0	3	132	17,109	2	0	3	138	17,442	2	0	3	141
30	1400	**P5**	138W	T1S	18,052	2	0	3	131	18,814	2	0	3	136	19,180	2	0	3	139
				T2M	16,723	3	0	4	121	17,428	3	0	4	126	17,768	3	0	4	129
				T3M	16,917	3	0	4	122	17,630	3	0	4	128	17,974	3	0	4	130
				T3LG	15,111	2	0	2	109	15,749	2	0	2	114	16,055	2	0	2	116
				T4M	17,169	3	0	5	124	17,893	3	0	5	130	18,242	3	0	5	132
				T4LG	15,615	2	0	2	113	16,274	2	0	2	118	16,591	2	0	2	120
				TFTM	17,288	2	0	4	125	18,017	2	0	5	130	18,368	3	0	5	133
				T5M	17,664	5	0	3	128	18,410	5	0	3	133	18,768	5	0	3	136
				T5W	17,951	5	0	3	130	18,708	5	0	3	135	19,073	5	0	3	138
				T5LG	17,716	4	0	2	128	18,463	4	0	2	134	18,823	4	0	2	136
				BLC3	12,305	0	0	3	89	12,824	0	0	3	93	13,074	0	0	3	95
				BLC4	12,709	0	0	4	92	13,245	0	0	4	96	13,503	0	0	4	98
				RCCO	12,416	1	0	3	90	12,940	1	0	3	94	13,192	1	0	3	95
				LCCO	12,416	1	0	3	90	12,940	1	0	3	94	13,192	1	0	3	95
				AFR	18,052	2	0	3	131	18,814	2	0	3	136	19,180	2	0	3	139
40	1250	**P6**	165W	T1S	21,031	2	0	3	127	21,918	2	0	3	133	22,345	2	0	3	135
				T2M	19,482	3	0	4	118	20,303	3	0	4	123	20,699	3	0	4	125
				T3M	19,708	3	0	5	119	20,539	3	0	5	124	20,939	3	0	5	127
				T3LG	17,604	2	0	2	107	18,347	2	0	2	111	18,704	2	0	2	113
				T4M	20,001	3	0	5	121	20,845	3	0	5	126	21,251	3	0	5	129
				T4LG	18,191	2	0	2	110	18,959	2	0	2	115	19,328	2	0	2	117
				TFTM	20,140	3	0	5	122	20,989	3	0	5	127	21,398	3	0	5	129
				T5M	20,579	5	0	3	125	21,447	5	0	3	130	21,865	5	0	3	132
				T5W	20,912	5	0	3	127	21,795	5	0	3	132	22,219	5	0	3	134
				T5LG	20,638	4	0	2	125	21,509	4	0	2	130	21,928	4	0	2	133
				BLC3	14,335	0	0	3	87	14,940	0	0	3	90	15,231	0	0	3	92
				BLC4	14,805	0	0	4	90	15,430	0	0	4	93	15,731	0	0	4	95
				RCCO	14,464	1	0	3	88	15,074	1	0	3	91	15,368	1	0	3	93
				LCCO	14,464	1	0	3	88	15,074	1	0	3	91	15,368	1	0	3	93
				AFR	21,031	2	0	3	127	21,918	2	0	3	133	22,345	2	0	3	135

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Lumen Output

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Forward Optics

LED Count	Drive Current (mA)	Performance Package	System Watts	Distribution Type	30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
40	1400	**P7**	184W	T1S	22,741	2	0	3	123	23,700	2	0	3	129	24,162	3	0	3	131
				T2M	21,066	3	0	4	114	21,955	3	0	4	119	22,383	3	0	4	121
				T3M	21,311	3	0	5	116	22,210	3	0	5	120	22,642	3	0	5	123
				T3LG	19,036	2	0	2	103	19,839	2	0	3	108	20,226	2	0	3	110
				T4M	21,628	3	0	5	117	22,541	3	0	5	122	22,980	3	0	5	125
				T4LG	19,671	2	0	2	107	20,501	2	0	3	111	20,900	2	0	3	113
				TFTM	21,778	3	0	5	118	22,697	3	0	5	123	23,139	3	0	5	125
				T5M	22,252	5	0	3	121	23,191	5	0	3	126	23,643	5	0	3	128
				T5W	22,613	5	0	3	123	23,567	5	0	4	128	24,027	5	0	4	130
				T5LG	22,317	4	0	2	121	23,258	4	0	2	126	23,712	4	0	2	129
				BLC3	15,501	0	0	3	84	16,155	0	0	4	88	16,470	0	0	4	89
				BLC4	16,010	0	0	4	87	16,685	0	0	4	90	17,010	0	0	4	92
				RCCO	15,631	5	0	5	85	---	---	---	---	---	---	---	---	---	---
				LCCO	15,641	1	0	3	85	---	---	---	---	---	---	---	---	---	---
				AFR	22,741	2	0	3	123	23,700	2	0	3	129	24,162	3	0	3	131
60	1100	**P8**	216W	T1S	28,701	3	0	3	133	29,912	3	0	4	139	30,495	3	0	4	141
				T2M	26,587	3	0	5	123	27,709	3	0	5	128	28,249	3	0	5	131
				T3M	26,895	3	0	5	125	28,030	3	0	5	130	28,576	3	0	5	132
				T3LG	24,025	3	0	3	111	25,038	3	0	3	116	25,526	3	0	3	118
				T4M	27,296	3	0	5	127	28,448	3	0	5	132	29,002	3	0	5	134
				T4LG	24,826	3	0	3	115	25,873	3	0	3	120	26,378	3	0	3	122
				TFTM	27,485	3	0	5	127	28,645	3	0	5	133	29,203	3	0	5	135
				T5M	28,084	5	0	4	130	29,269	5	0	4	136	29,839	5	0	4	138
				T5W	28,539	5	0	4	132	29,743	5	0	4	138	30,323	5	0	4	141
				T5LG	28,165	4	0	2	131	29,354	4	0	2	136	29,926	4	0	2	139
				BLC3	19,563	0	0	4	91	20,388	0	0	4	94	20,786	0	0	4	96
				BLC4	20,205	0	0	5	94	21,057	0	0	5	98	21,468	0	0	5	99
				RCCO	19,740	1	0	4	91	20,572	1	0	4	95	20,973	1	0	4	97
				LCCO	19,740	1	0	4	91	20,572	1	0	4	95	20,973	1	0	4	97
				AFR	28,701	3	0	3	133	29,912	3	0	4	139	30,495	3	0	4	141
60	1400	**P9**	277W	T1S	34,819	3	0	4	126	36,288	3	0	4	131	36,996	3	0	4	134
				T2M	32,255	3	0	5	116	33,616	3	0	5	121	34,271	3	0	5	124
				T3M	32,629	3	0	5	118	34,006	3	0	5	123	34,668	3	0	5	125
				T3LG	29,146	3	0	3	105	30,376	3	0	4	110	30,968	3	0	4	112
				T4M	33,116	3	0	5	120	34,513	3	0	5	125	35,185	3	0	5	127
				T4LG	30,119	3	0	3	109	31,389	3	0	4	113	32,001	3	0	4	116
				TFTM	33,345	3	0	5	120	34,751	3	0	5	125	35,429	3	0	5	128
				T5M	34,071	5	0	4	123	35,509	5	0	4	128	36,201	5	0	4	131
				T5W	34,624	5	0	4	125	36,084	5	0	4	130	36,788	5	0	4	133
				T5LG	34,170	5	0	3	123	35,612	5	0	3	129	36,306	5	0	3	131
				BLC3	23,734	0	0	4	86	24,735	0	0	4	89	25,217	0	0	4	91
				BLC4	24,513	0	0	5	88	25,547	0	0	5	92	26,045	0	0	5	94
				RCCO	23,948	1	0	4	86	24,958	1	0	4	90	25,445	1	0	4	92
				LCCO	23,948	1	0	4	86	24,958	1	0	4	90	25,445	1	0	4	92
				AFR	34,819	3	0	4	126	36,288	3	0	4	131	36,996	3	0	4	134

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Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of configurations shown within the tolerances described within LM-79.
Contact factory for performance data on any configurations not shown here.

Rotated Optics

LED Count	Drive Current (mA)	Performance Package	System Watts	Distribution Type	30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
60	530	**P10**	101W	T1S	15,164	3	0	3	150	15,803	3	0	3	156	16,112	3	0	3	159
				T2M	14,047	4	0	4	139	14,640	4	0	4	145	14,925	4	0	4	147
				T3M	14,208	4	0	4	140	14,807	4	0	4	146	15,096	4	0	4	149
				T3LG	12,693	3	0	3	125	13,229	3	0	3	131	13,487	3	0	3	133
				T4M	14,420	4	0	4	142	15,028	4	0	4	148	15,321	4	0	4	151
				T4LG	13,115	3	0	3	129	13,668	3	0	3	135	13,934	3	0	3	138
				TFTM	14,522	4	0	4	143	15,134	4	0	4	149	15,429	4	0	4	152
				T5M	14,836	4	0	2	146	15,462	4	0	2	153	15,763	4	0	2	156
				T5W	15,076	4	0	3	149	15,712	5	0	3	155	16,019	5	0	3	158
				T5LG	14,879	3	0	2	147	15,507	3	0	2	153	15,809	3	0	2	156
				BLC3	10,335	3	0	3	102	10,771	4	0	4	106	10,981	4	0	4	108
				BLC4	10,674	4	0	4	105	11,124	4	0	4	110	11,341	4	0	4	112
				RCCO	10,429	1	0	2	103	10,869	1	0	2	107	11,080	1	0	2	109
				LCCO	10,429	1	0	2	103	10,869	1	0	2	107	11,080	1	0	2	109
				AFR	15,164	3	0	3	150	15,803	3	0	3	156	16,112	3	0	3	159
60	700	**P11**	135W	T1S	19,437	4	0	4	144	20,257	4	0	4	150	20,651	4	0	4	153
				T2M	18,005	4	0	4	133	18,765	4	0	4	139	19,131	4	0	4	142
				T3M	18,211	4	0	4	135	18,980	4	0	4	141	19,350	4	0	4	143
				T3LG	16,270	3	0	3	121	16,957	3	0	3	126	17,287	4	0	4	128
				T4M	18,483	4	0	4	137	19,263	5	0	5	143	19,638	5	0	5	146
				T4LG	16,810	3	0	3	125	17,519	3	0	3	130	17,861	3	0	3	132
				TFTM	18,614	4	0	4	138	19,399	4	0	4	144	19,777	5	0	5	147
				T5M	19,017	5	0	3	141	19,819	5	0	3	147	20,205	5	0	3	150
				T5W	19,325	5	0	3	143	20,140	5	0	3	149	20,533	5	0	3	152
				T5LG	19,072	4	0	2	141	19,876	4	0	2	147	20,264	4	0	2	150
				BLC3	13,247	4	0	4	98	13,806	4	0	4	102	14,075	4	0	4	104
				BLC4	13,682	4	0	4	101	14,259	4	0	4	106	14,537	4	0	4	108
				RCCO	13,367	1	0	3	99	13,931	1	0	3	103	14,203	1	0	3	105
				LCCO	13,367	1	0	3	99	13,931	1	0	3	103	14,203	1	0	3	105
				AFR	19,437	4	0	4	144	20,257	4	0	4	150	20,651	4	0	4	153
60	1050	**P12**	206W	T1S	27,457	4	0	4	133	28,616	4	0	4	139	29,174	4	0	4	142
				T2M	25,436	5	0	5	124	26,509	5	0	5	129	27,025	5	0	5	131
				T3M	25,727	5	0	5	125	26,812	5	0	5	130	27,335	5	0	5	133
				T3LG	22,984	4	0	4	112	23,954	4	0	4	116	24,421	4	0	4	119
				T4M	26,110	5	0	5	127	27,212	5	0	5	132	27,742	5	0	5	135
				T4LG	23,747	4	0	4	115	24,749	4	0	4	120	25,231	4	0	4	123
				TFTM	26,295	5	0	5	128	27,404	5	0	5	133	27,938	5	0	5	136
				T5M	26,864	5	0	4	130	27,997	5	0	4	136	28,543	5	0	4	139
				T5W	27,299	5	0	4	133	28,451	5	0	4	138	29,006	5	0	4	141
				T5LG	26,942	4	0	2	131	28,078	4	0	2	136	28,626	4	0	2	139
				BLC3	18,714	4	0	4	91	19,504	4	0	4	95	19,884	4	0	4	97
				BLC4	19,327	5	0	5	94	20,143	5	0	5	98	20,535	5	0	5	100
				RCCO	18,883	1	0	4	92	19,680	1	0	4	96	20,064	1	0	4	97
				LCCO	18,883	1	0	4	92	19,680	1	0	4	96	20,064	1	0	4	97
				AFR	27,457	4	0	4	133	28,616	4	0	4	139	29,174	4	0	4	142
60	1400	**P13**	276W	T1S	34,436	5	0	5	125	35,889	5	0	5	130	36,588	5	0	5	133
				T2M	31,900	5	0	5	116	33,246	5	0	5	121	33,894	5	0	5	123
				T3M	32,265	5	0	5	117	33,626	5	0	5	122	34,282	5	0	5	124
				T3LG	28,826	4	0	4	105	30,042	4	0	4	109	30,628	4	0	4	111
				T4M	32,746	5	0	5	119	34,128	5	0	5	124	34,793	5	0	5	126
				T4LG	29,782	4	0	4	108	31,039	4	0	4	113	31,644	5	0	4	115
				TFTM	32,978	5	0	5	120	34,369	5	0	5	125	35,039	5	0	5	127
				T5M	33,692	5	0	4	122	35,113	5	0	4	127	35,797	5	0	4	130
				T5W	34,238	5	0	4	124	35,682	5	0	4	129	36,378	5	0	4	132
				T5LG	33,789	5	0	3	122	35,215	5	0	3	128	35,901	5	0	3	130
				BLC3	23,471	5	0	5	85	24,461	5	0	5	89	24,937	5	0	5	90
				BLC4	24,240	5	0	5	88	25,262	5	0	5	92	25,755	5	0	5	93
				RCCO	23,683	1	0	4	86	24,682	1	0	4	89	25,163	1	0	4	91
				LCCO	23,683	1	0	4	86	24,682	1	0	4	89	25,163	1	0	4	91
				AFR	34,436	5	0	5	125	35,889	5	0	5	130	36,588	5	0	5	133

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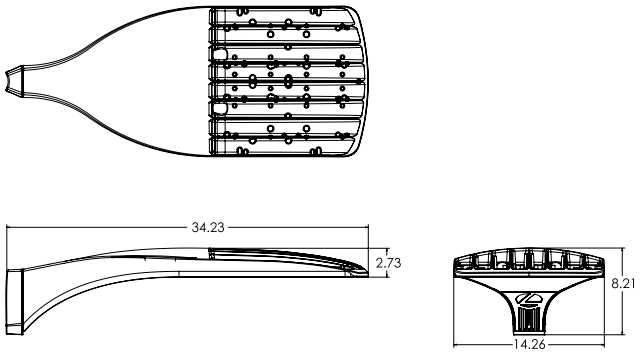
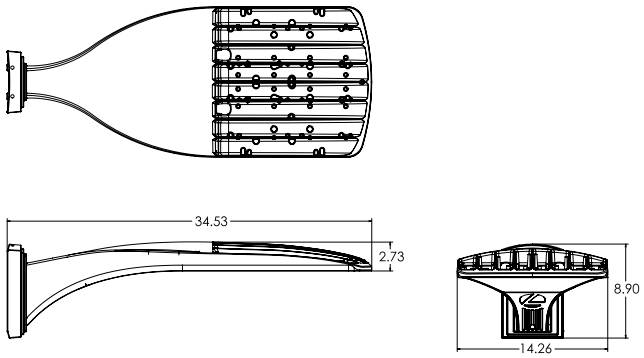
Dimensions

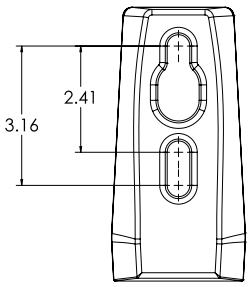


DSX1 with RPA, RPA5, SPA5, SPA8N

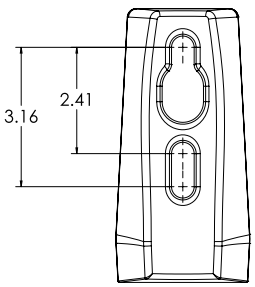


DSX1 with WBA

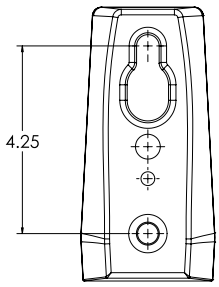
SPA8N



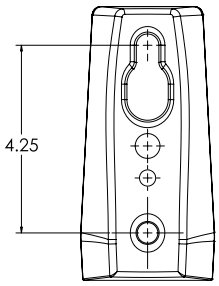
RPA



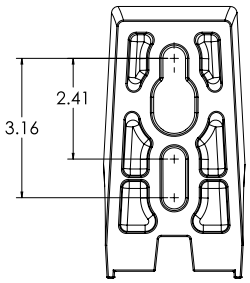
SPA5



RPA5



BASE FIXURE



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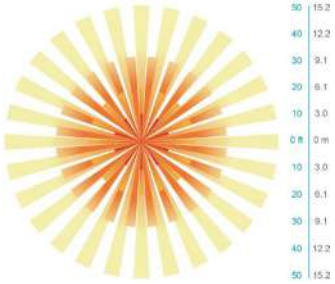
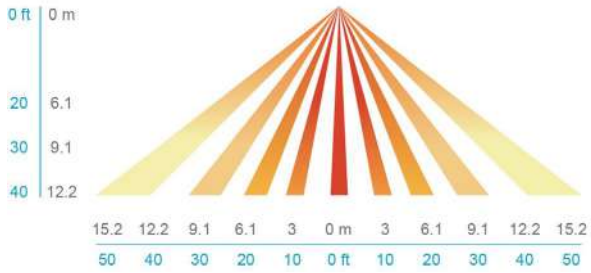
nLight Control - Sensor Coverage and Settings

nLight Sensor Coverage Pattern
NLTAIR2 PIRHN



Top



Side

FEATURES & SPECIFICATIONS

INTENDED USE
The sleek design of the D-Series Size 1 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and streetscapes.

CONSTRUCTION
Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing driver compartment is completely sealed against moisture and environmental contaminants (IP66). Vibration rated per ANSI C136.31 for 1.5G. Low EPA (0.69 ft^2) for optimized pole wind loading.

FINISH
Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

Coastal Construction (CCE)
Optional corrosion resistant construction is engineered with added corrosion protection in materials and/or pre-treatment of base material under super durable paint. Provides additional corrosion protection for applications near coastal areas. Finish is salt spray tested to over 5,000 hours per ASTM B117 with scribe rating of 10. Additional lead-times may apply.

OPTICS
Precision-molded proprietary silicone lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in standard 3000 K, 4000 K and 5000 K (70 CRI) configurations. 80CRI configurations are also available. The D-Series Size 1 has zero uplight and qualifies as a Night-time Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL
Light engine configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L81/100,000 hours at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

STANDARD CONTROLS
The DSX1 LED area luminaire has a number of control options. DSX Size 1, comes standard with 0-10V dimming drivers. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. Integrated motion sensor with on-board photocells feature field-adjustable programing and are suitable for mounting heights up to 40 feet. Control option BL features a bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output.

nLIGHT AIR CONTROLS
The DSX1 LED area luminaire is also available with nLight® AIR for the ultimate in wireless control. This powerful controls platform provides out-of-the-box basic motion sensing and photocontrol functionality and is suitable for mounting heights up to 40 feet. Once commissioned using a smartphone and the easy-to-use CLAIRITY app, nLight AIR equipped luminaries can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclypse. Additional information about nLight Air can be found here.

INSTALLATION
Integral mounting arm allows for fast mounting using Lithonia standard #8 drilling and accommodates pole drilling's from 2.41 to 3.12" on center. The standard “SPA” option for square poles and the “RPA” option for round poles use the #8 drilling. For #5 pole drillings, use SPA5 or RPA5. Additional mountings are available including a wall bracket (WBA) and mast arm (MA) option that allows luminaire attachment to a 2 3/8” horizontal mast arm.

LISTINGS
UL listed to meet U.S. and Canadian standards. UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP66 rated. Rated for -40°C minimum ambient.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

WARRANTY
5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

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IES ROAD REPORT
PHOTOMETRIC FILENAME : DSX1 LED P1 40K 70CRI BLC3.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] ISF 222045P61
[ISSUEDATE] 11/10/2022
[TESTLAB] SCALED PHOTOMETRY
[MANUFAC] Lithonia Lighting
[LUMCAT] DSX1 LED P1 40K 70CRI BLC3
[LUMINAIRE] D-Series Size 1 Area Luminaire P1 Performance Package 4000K CCT 70 CRI Type 3 Extreme Backlight Control
[DISTRIBUTION] TYPE III, SHORT, BUG RATING: B0 - U0 - G2
[_TOTALLUMINAIRELUMENS] 5524
[_INPUTWATTAGE] 50.9
[_LAMPTYPE] LED
[_MOUNTING] OUTDOOR
[_PHYSICALDIMENSIONS] 1.08, 1.14, 0
[_PRODUCTID] a858b133-31c8-4f99-b1cf-5bfde9e80b80
[_SERIES] DSX1
[_SERIESID] 596135

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5522
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	50.9
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	5672.312
Maximum Candela Angle	45H 65V
Maximum Candela (<90 Degrees Vertical)	5672.312
Maximum Candela Angle (<90 Degrees Vertical)	45H 65V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1019.045 (18.5% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : DSX1 LED P1 40K 70CRI BLC3.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	288.9	N.A.	5.2
FM - Front-Medium (30-60)	2541.6	N.A.	46.0
FH - Front-High (60-80)	2592.3	N.A.	46.9
FVH - Front-Very High (80-90)	56.5	N.A.	1.0
BL - Back-Low (0-30)	8.8	N.A.	0.2
BM - Back-Medium (30-60)	14.9	N.A.	0.3
BH - Back-High (60-80)	17.5	N.A.	0.3
BVH - Back-Very High (80-90)	1.9	N.A.	0.0
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	5522.4	N.A.	100.0
BUG Rating	B0-U0-G2		

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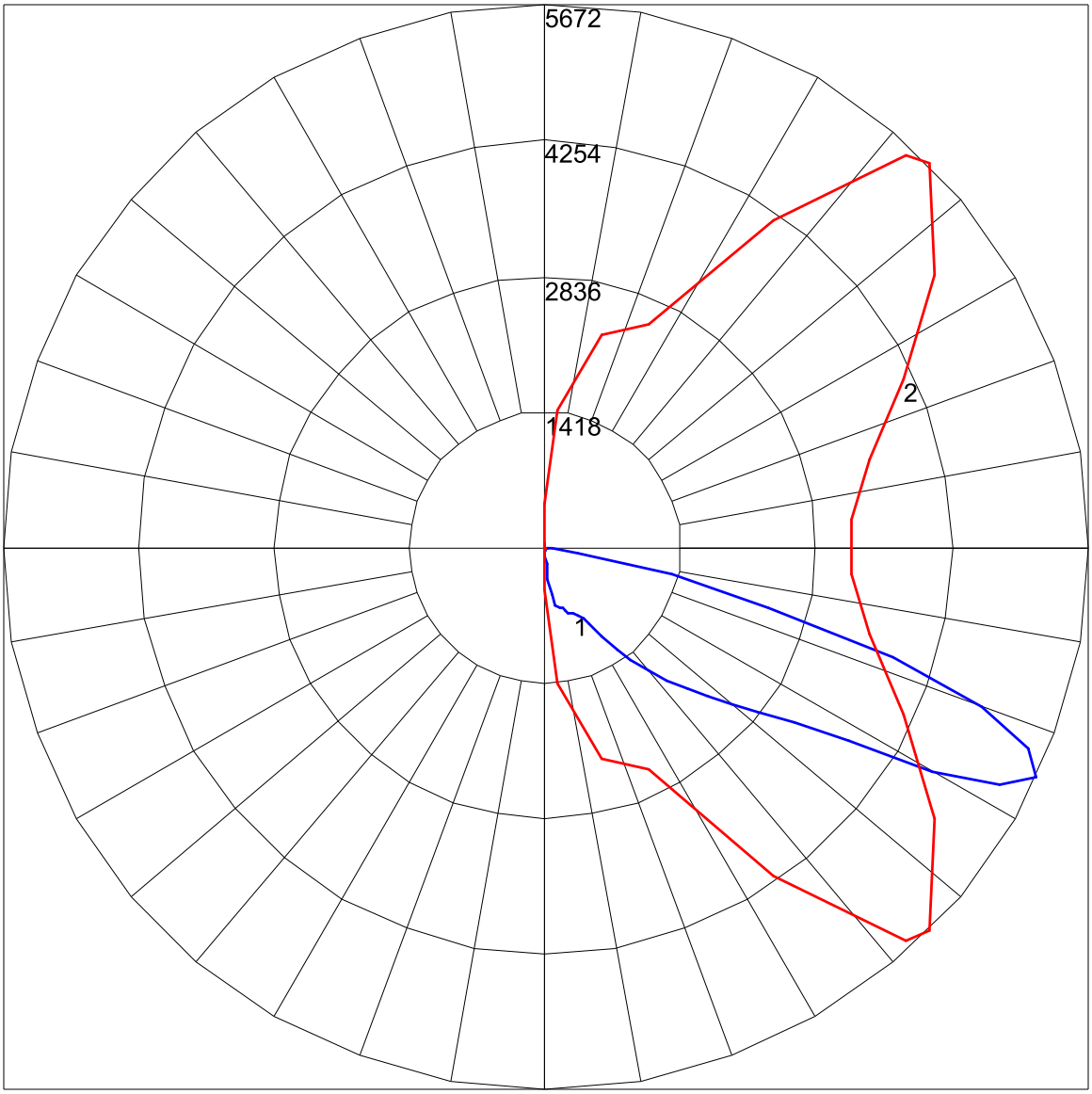
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : DSX1 LED P1 40K 70CRI BLC3.IES

POLAR GRAPH



Maximum Candela = 5672.312 Located At Horizontal Angle = 45, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

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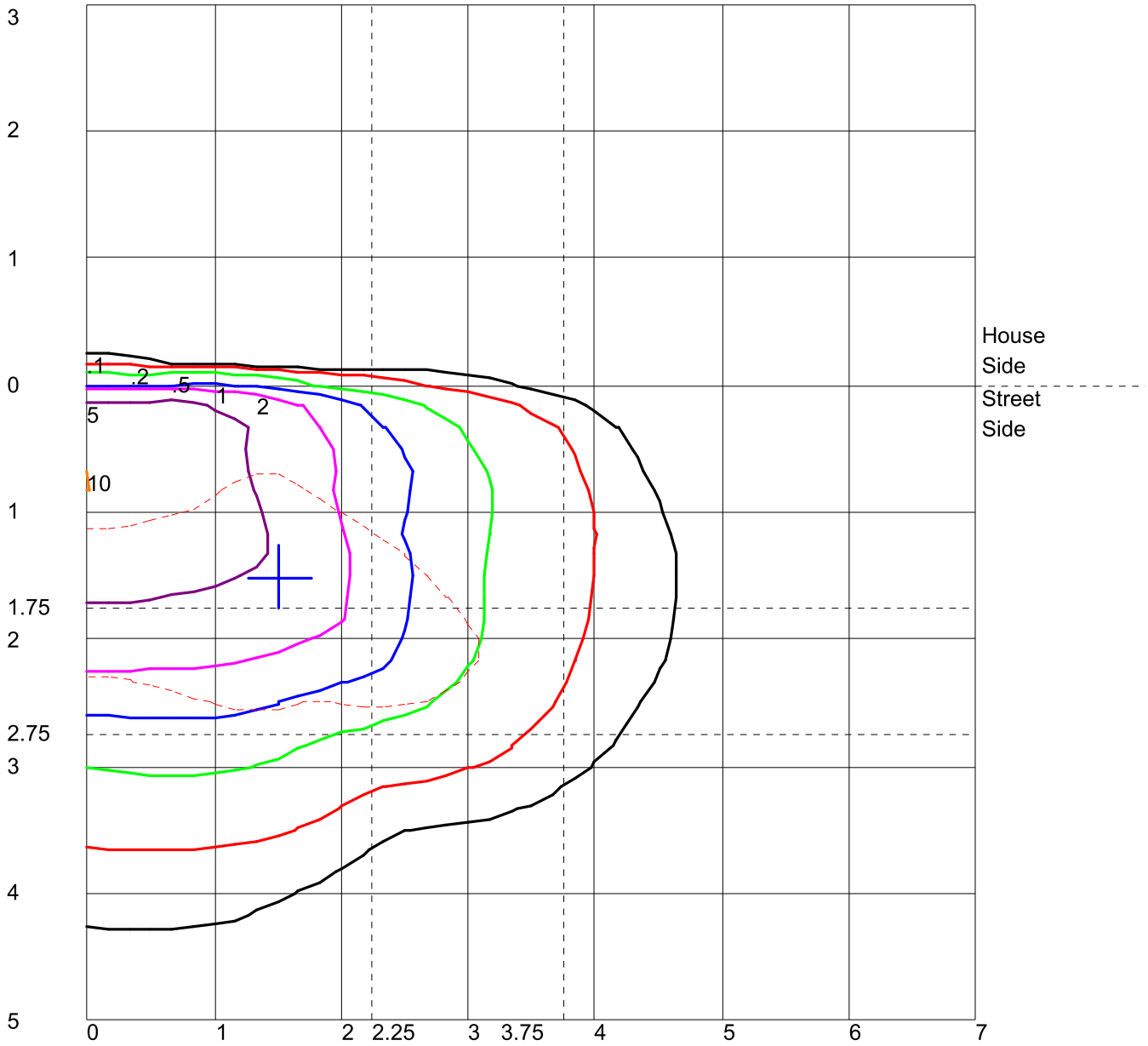
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : DSX1 LED P1 40K 70CRI BLC3.IES

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



Distance In Units Of Mounting Height
Values Based On 10 Foot Mounting Height
1/2 Maximum Candela Trace Shown As Dashed Curve
(+) = Maximum Candela Point

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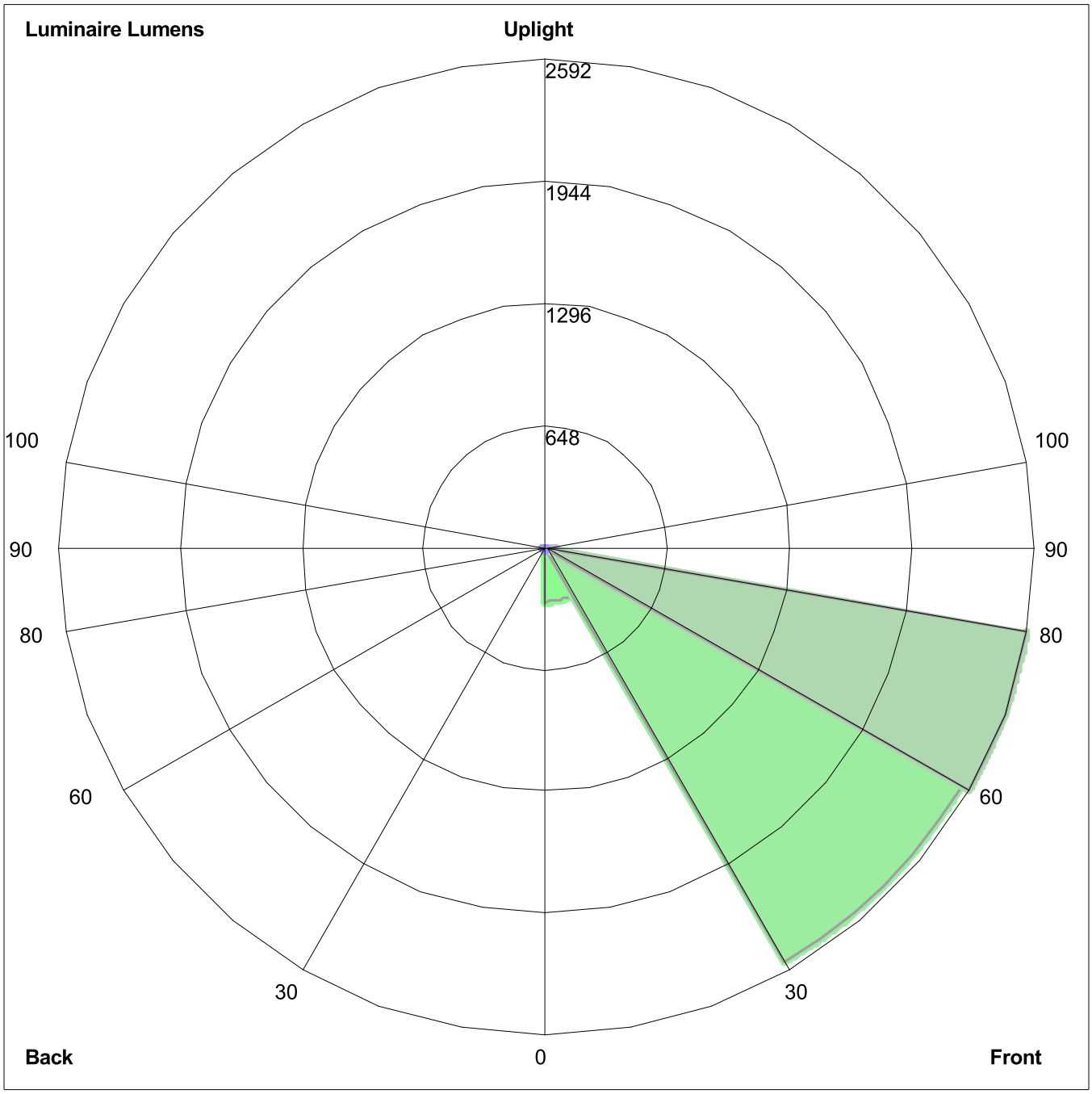
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : DSX1 LED P1 40K 70CRI BLC3.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=288.9, Medium=2541.6, High=2592.3, Very High=56.5
Back: Low=8.8, Medium=14.9, High=17.5, Very High=1.9
Uplight: Low=0.0, High=0.0

BUG Rating : B0-U0-G2

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Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : DSX1 LED P1 40K 70CRI T3LG.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] ISF 221262BP61
[ISSUEDATE] 11/10/2022
[TESTLAB] SCALED PHOTOMETRY
[MANUFAC] Lithonia Lighting
[LUMCAT] DSX1 LED P1 40K 70CRI T3LG
[LUMINAIRE] D-Series Size 1 Area Luminaire P1 Performance Package 4000K CCT 70 CRI Type 3 Low G Rating
[DISTRIBUTION] TYPE III, SHORT, BUG RATING: B1 - U0 - G1
[_TOTALLUMINAIRELUMENS] 6783
[_INPUTWATTAGE] 50.9
[_LAMPTYPE] LED
[_MOUNTING] OUTDOOR
[_PHYSICALDIMENSIONS] 1.08, 1.14, 0
[_PRODUCTID] 4f1bb518-c327-436c-af75-ddda3acc8f8c
[_SERIES] DSX1
[_SERIESID] 596135
[_INPUTWATTAGE] 51
[_TOTALLUMINAIRELUMENS] 6364
[TESTMETHOD] IES LM-79-08

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6784
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	50.9
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4474.571
Maximum Candela Angle	47.5H 60V
Maximum Candela (<90 Degrees Vertical)	4474.571
Maximum Candela Angle (<90 Degrees Vertical)	47.5H 60V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	666.221 (9.8% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : DSX1 LED P1 40K 70CRI T3LG.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	715.6	N.A.	10.5
FM - Front-Medium (30-60)	3127.9	N.A.	46.1
FH - Front-High (60-80)	1743.0	N.A.	25.7
FVH - Front-Very High (80-90)	71.2	N.A.	1.0
BL - Back-Low (0-30)	331.2	N.A.	4.9
BM - Back-Medium (30-60)	548.8	N.A.	8.1
BH - Back-High (60-80)	229.9	N.A.	3.4
BVH - Back-Very High (80-90)	16.3	N.A.	0.2
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	6783.9	N.A.	100.0
BUG Rating	B1-U0-G1		

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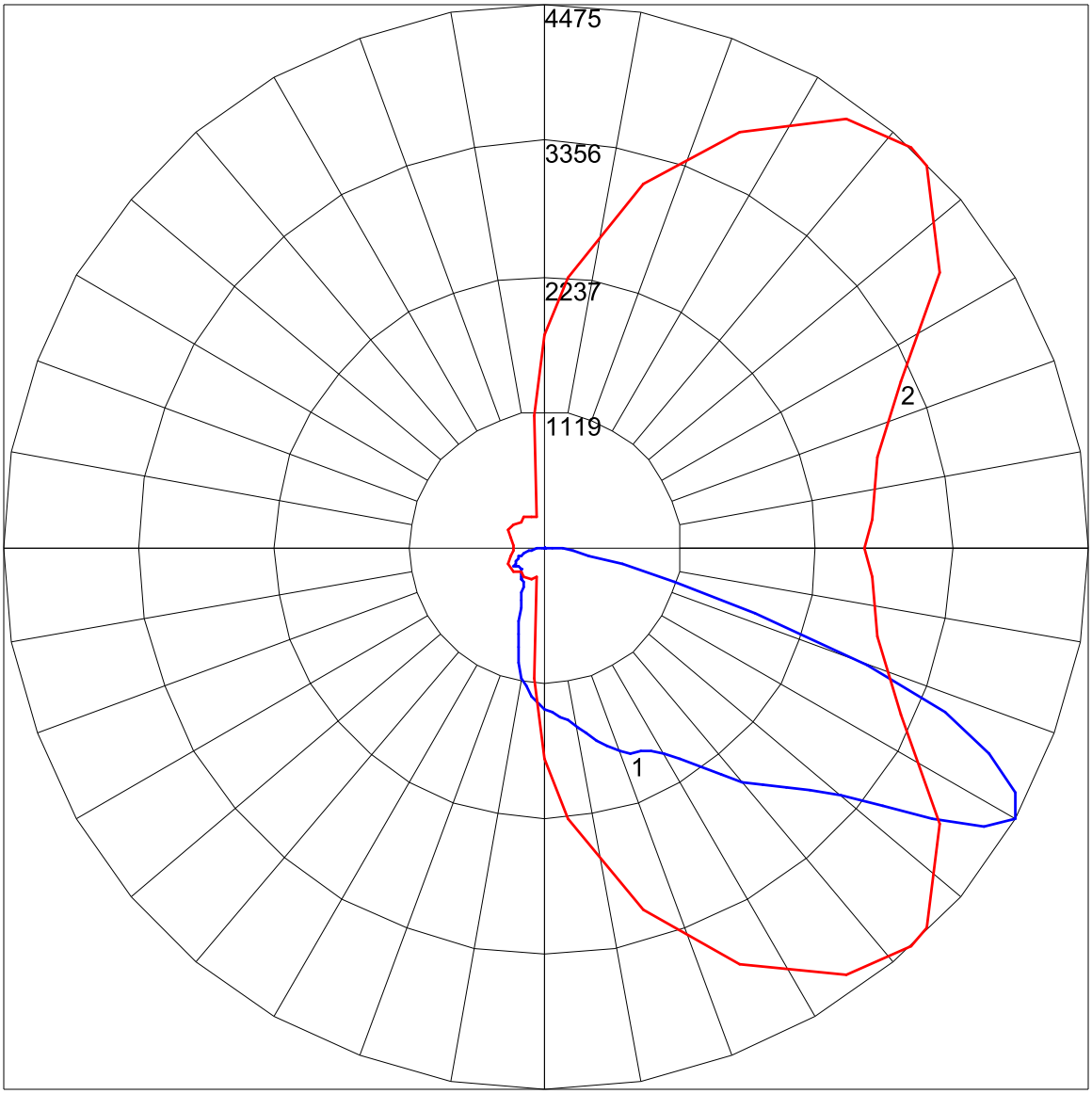
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : DSX1 LED P1 40K 70CRI T3LG.IES

POLAR GRAPH



Maximum Candela = 4474.571 Located At Horizontal Angle = 47.5, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (47.5 - 227.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

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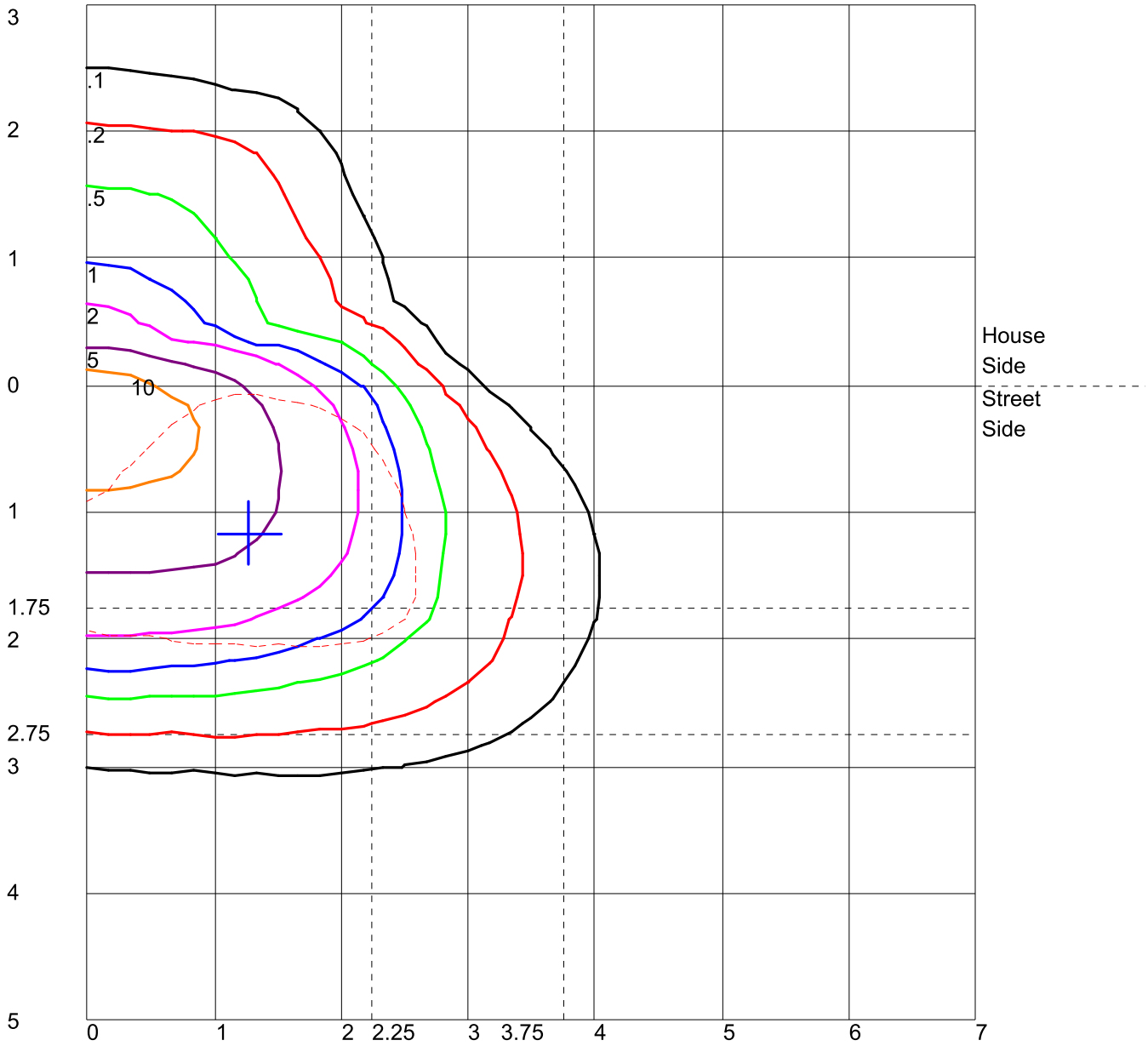
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : DSX1 LED P1 40K 70CRI T3LG.IES

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



Distance In Units Of Mounting Height
Values Based On 10 Foot Mounting Height
1/2 Maximum Candela Trace Shown As Dashed Curve
(+) = Maximum Candela Point

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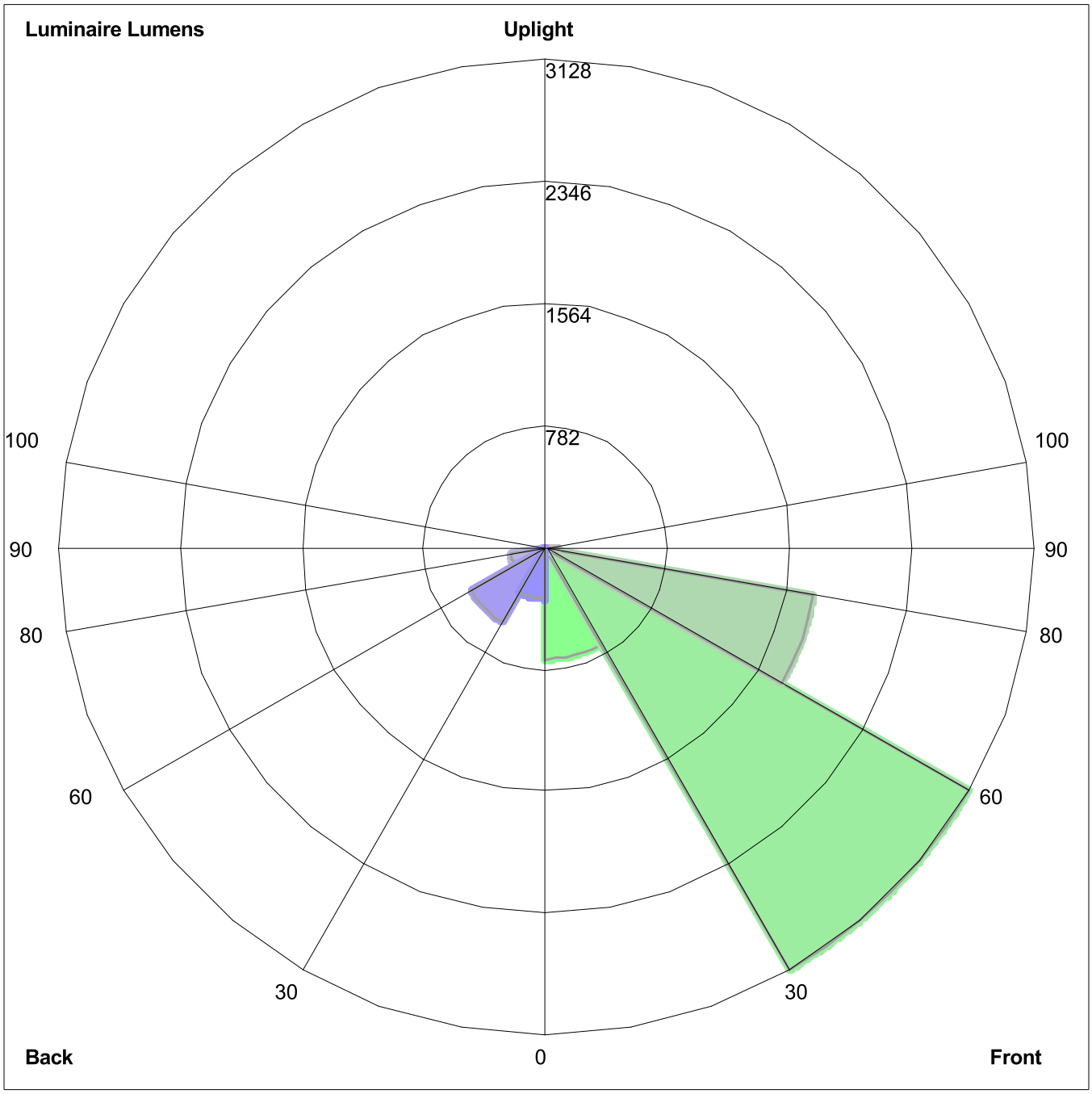
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : DSX1 LED P1 40K 70CRI T3LG.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=715.6, Medium=3127.9, High= 1743.0, Very High=71.2
Back: Low=331.2, Medium=548.8, High=229.9, Very High=16.3
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G1

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Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #: TYPES OBA,OBB

PA7R
BOLLARD

Pavilion™

FEATURES

- IDA Dark Sky Compliant, No Up-light configuration
- Elegant form factor blended with Performance Optics
- Integral NEMA 3R Enclosure
- Dual receptacle power panel
- PA System capability
- Bluetooth® enabled RGBW accent

c UL us LISTED

ida DARK SKY APPROVED 2016

IK10

NU configurations in 3000K and warmer CCTs only


Pavilion

RELATED PRODUCTS

Pavilion Square

Pavilion Round Impact Rated

CONTROL TECHNOLOGY

Bluetooth® DMX

pharos

NX LIGHTING CONTROLS

SPECIFICATIONS

CONSTRUCTION

HOUSING:

- Castings are low copper aluminum alloy die-cast
- Gaskets are molded silicone to prevent harmful ingress to the lamp and driver compartments
- IP65 rated

SHAFT:

- Aluminum shaft(s) is .125” thick extruded aluminum 6061 alloy
- Concrete shaft(s) conforms to current specifications for “Portland Cement.” ASTM C150, Type I or II. Aggregates shall meet current requirements of “Specifications for Concrete Aggregates,” ASTM C33. Water shall be clean and free from deleterious amounts of silt, oil, acids, alkalies or organic materials. Wire for reinforcement shall conform to ASTM A185. Steel for lugs and plates shall conform to ASTM A36, or A283 grade D
- Concrete shaft(s) is medium sand-blasted with anti-graffiti sealer and material color shall be integral to the concrete mix
- Concrete shaft(s) is cured to allow for completion of the hydration process, and result in a 28 day compressive strength of not less than 4,500 psi
- Concrete shaft(s) is cast from fiberglass molds used to insure uniform parts. Mold parting lines maybe slightly visible in finished parts

OPTICS

- LEDs mount to a metal printed circuit board assembly (MCPCB)
- Optical lenses are clear injection molded PMMA acrylic
- U0 configurations have an optically clear flat tempered glass lens, all other configurations have either an optically clear or high transmission diffused acrylic lens

INSTALLATION

- Aluminum shaft configurations will have four 3/8” x 10” x 2” zinc plated L-hook anchor bolts shall to be installed with an included template. Nuts and washers are provided to level and secure the mounting plate to the anchor bolts
- Aluminum shaft configurations will have a mounting plate and be able to be rotated 20° in either direction during installation for aiming adjustment
- Concrete shaft configurations will have four steel mounting tabs for installation on four 1/2" x 10" + 2" zinc electroplated L-hook anchor bolts. Each anchor bolt is supplied with two nuts, two washers, and a rigid pressed board template
- Concrete shaft configurations are palletized with adequate hold-downs to prevent load movement in transit
- Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury

ELECTRICAL

- Universal voltage, 120 through 277V with a ±10% tolerance. Driver is Underwriters Laboratories listed
- High voltage configurations, 208-277, 347/480. Driver is Underwriters Laboratories listed
- "Thermal Shield”, secondary side, thermistor provides protection for the sustainable life of LED module and electronic components
- Drivers are greater than a 0.9 power factor, less than 20% harmonic distortion, and be suitable for operation in -40°C to 40°C ambient environments
- Luminaire is capable of operating at 100% brightness in a 40°C environment. Both driver and optical array have integral thermal protection that will dim the luminaire upon detection of temperatures in excess of 85°C

(Specifications continued on page 3)

KEY DATA	
Lumen Range	397–2350
Wattage Range	14–22
Efficacy Range (LPW)	29–108
Reported Life (Hours)	L70/60,000

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KIM LIGHTING®

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

PA7R
BOLLARD

ORDERING GUIDE

Example: PA7R-FT-NU-1-12L-010-5K7-24A-BLS-UNV-EM

CATALOG #

HOUSING

PA7R

Model	Top	Optics	Distribution	Light Engine [13]
PA7R Pavilion 7" Ø Round	**FT** Flat Top	**NU** No Up-light	**1** Type I	**12L-010-AMB** [11] 14W, Monochromatic Amber
	CT [1] Crowned Top	**CH** Clear Horizontal Lens	**2** Type II	**12L-010-3K7** 14W (1000 nominal lm), 3000K, 70 CRI
		CL [2] Clear Vertical Lens	**3** Type III OBA	**12L-010-4K7** 14W (1000 nominal lm), 4000K, 70 CRI
		DL [2,3] Diffuse Vertical Lens	**3HS** Type III + House side shield	**12L-010-5K7** 14W (1000 nominal lm), 5000K, 70 CRI
		LV Louvers	**4** Type IV OBB	**12L-020-AMB** [11] 22W, Monochromatic Amber
		GC Grille with clear vertical lens	**5** Type V	**12L-020-3K7** 22W (2000 nominal lm), 3000K, 70 CRI
		GD [3] Grille with diffuse vertical lens		**12L-020-4K7** 22W (2000 nominal lm), 4000K, 70 CRI
				12L-020-5K7 22W (2000 nominal lm), 5000K, 70 CRI
				Consult factory for other CCTs (2700K - 6500K) and CRIs (80, 90 CRI)

Body	Fixture Finish	Control Options	Voltage	Options
24A 24" OAH, Aluminum	**BLS** Black Gloss Smooth	**MW** [6] Motion sensing (50% dim, 100% output upon detection)	**UNV** 120-277V	**EM** [8] Battery Backup
42A 42" OAH, Aluminum	**BLT** Black Matte Textured	**NXW** NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor	**120** [7] 120V	**LR** [9] Luminous Accent
42BR-C 42" OAH, Brown Concrete	**DBS** Dark Bronze Gloss Smooth		**277** [7] 208-277V	**SF** [10] Single Fuse
42CH-C 42" OAH, Charcoal Concrete	**DBT** Dark Bronze Matte Textured		**347** [7] 347V	**DF** [10] Double Fuse
42NG-C 42" OAH, Natural Gray Concrete	**GTT** Graphite Matte Textured TBD		**480** [7] 480V	
42WH-C 42" OAH, White Concrete	**LGS** Light Grey Gloss Smooth			
42A-ROP [4] 42" OAH, Aluminum + Dual Receptacle Outlet Panel and Cover	**LGT** Light Grey Matte Textured			
42A-ROP-L [4] 42" OAH, Aluminum + Dual Receptacle Outlet Panel and Locking Cover	**PSS** Platinum Silver Gloss Smooth			
42A-2GEB 42" OAH, Aluminum + Integral Recessed 2 Gang Electrical Box	**VGT** Verde Green Matte Textured			
42A-SG3 42" OAH, Aluminum + Speaker Grille Enclosure for 3" Ø speaker	**WHS** White Gloss Smooth			
44A 44" Non-Impact Resistant OAH, Aluminum	**WHT** White Matte Textured			
44A-ROP 44" Non-Impact Resistant OAH, Aluminum + Dual Receptacle Outlet Panel and Cover	**Color Option**			
44A-ROP-L 44" Non-Impact Resistant OAH, Aluminum + Dual Receptacle Outlet Panel and Locking Cover	**CC** [12] Custom Color			
44A-2GEB 44" Non-Impact Resistant OAH, Aluminum + Integral Recessed 2 Gang Electrical Box				
44A-SG3 44" Non-Impact Resistant OAH, Aluminum + Speaker Grille Enclosure for 3" Ø speaker				
For Impact Rated 44" OAH Round Pavilion				

1 Adds .6 / 15mm to OAH (over all height).
2 CL and DL configurations shall be IK04
3 Only Available with 1 Type I or 5 Type V distributions only.
4 For GFCI/USB limited voltage to 120VAC only.
6 24'Ø typical coverage area, not available with CH.
7 Dedicated input voltage, required for MW Motions sensing.
8 0°C min starting temperature, 90+ minute run time, output equivalent to 12L-010-#K7
9 Adds +5 watts and 1" / 254mm to overall height.
10 SF for 120, 277 and 347 input voltage, DF for 208, 240 and 480 input voltage.
11 Turtle friendly
12 Consult factory for custom color, marine and corrosive finish options
13 5-step MacAdam Ellipse Binning standard. Consult factory for 3-step MacAdam Ellipse Binning.

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DATE: LOCATION:

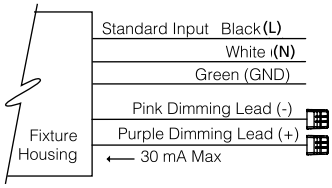
TYPE: PROJECT:

PA7R
BOLLARD

CATALOG #:

SPECIFICATIONS CONT'D

CONTROLS
- Standard fixtures dimming range shall be from 10% to 100% and be compatible with 0-10V, user-defined, control devices



- Optional motion sensor shall be capable of detecting motion 360° around the bollard. When no motion is detected for the specified time, the sensor wattage to factory preset level, reducing the light level accordingly. When motion is detected by the sensor, the bollard shall return to full wattage and full light output. Please contact KIM Lighting if project requirements vary from standard configuration

WIRELESS CONTROLS
BLUETOOTH®:
- The Integral module shall enable the adjustment of the Luminous Accent to dim or change color to the desired setting when paired with RGBW Remote App via celluar/tablet device
- The integral module shall be compatible with Bluetood Low Energy (BLE) or Bluetooth® Smart mobile devices operating on iOS8 or Android Gingerbread operating systems or newer
- Mobile App. dimming range from 0% to 100% through the use of RGBW app (available on IOS and Android)
- Color selection and adjustment
- Camera function for color matching
- Intensity slider for dimming/ramping up
- Save and rename up to 10 presets
- Group and rename fixtures
- Fixture is password protected, refer to instructions to set unique password

DMX:
- 6 wires: Red (DMX+), Brown (DMX-), Yellow (DMX Ground), Black (Line Voltage), White (common), and Green (Ground)
- Single DMX universe with six slots/addresses of virtual control which are pre-programmed at the factory:
- DMX slot/address 1 = red
- DMX slot/address 2 = green
- DMX slot/address 3 = blue
- DMX slot/address 4 = white
- Fully DMX RDM compatible
- Mobile App specification in additional information section

NX
- Luminaires enabled with NX Lighting Controls wireless radios create an intelligent mesh networkwith the interior controls. Groups are dimmed via an astronomical time clock and schedules can be updated at any time with the Bluetooth® commissioning app. Contact factory for more information

OPTIONAL BACKUP BATTERY
- Integral battery backup provides emergency path of egress lighting for the required 90 minutes for 0°C ambient environments

CAUTION:
- Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury

CERTIFICATIONS AND LISTINGS
- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40°C ambient temperatures
- IP65 rated
- IEC 66262 Mechanical Impact Code IK10
- IDA approved, 3000K and warmer CCTs only
- RoHS compliant

WARRANTY
- 5 year warranty
- See HLI Standard Warranty for additional information

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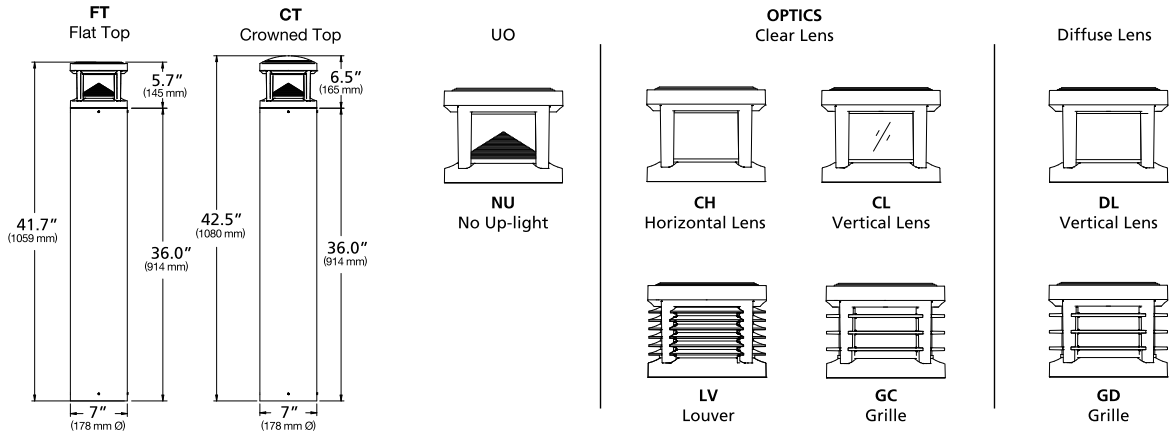
DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

PA7R
BOLLARD

DIMENSIONS



DELIVERED LUMENS

Drive Current	LEDs #	Nominal Watts	Nominal Lumens	Lens Options	Distribution	3000K 70CRI					4000K 70CRI					5000K 70CRI				
						Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
							B	U	G			B	U	G			B	U	G	
550mA	12L	22	2,000	NU U0 Optics	1	1044	0	0	0	48	1136	0	0	0	52	1164	0	0	0	54
					2	1199	0	0	0	55	1305	0	0	0	60	1336	0	0	0	62
					3	1128	0	0	1	52	1228	0	0	1	57	1257	0	0	1	58
					3HS	953	0	0	0	44	1037	0	0	0	48	1062	0	0	1	49
					4	1362	0	0	0	63	1482	0	0	1	68	1518	0	0	1	70
					5	1265	1	0	0	58	1377	1	0	0	63	1410	1	0	0	65
				CH Clear Horizontal Lens	1	1778	0	3	1	82	1935	0	3	1	89	1981	0	3	1	91
					2	1711	1	3	1	79	1862	1	3	1	86	1906	1	3	1	88
					3	1643	1	3	1	76	1788	1	3	1	82	1831	1	3	1	84
					3HS	1443	0	3	1	66	1570	0	3	1	72	1608	0	3	1	74
					4	1731	0	3	1	80	1884	0	3	1	87	1929	0	3	1	89
					5	1841	1	3	1	85	2003	1	3	1	92	2051	1	3	1	95
				CL Clear Vertical Lens	1	1852	0	4	1	85	2016	1	4	1	93	2064	1	4	1	95
					2	1984	1	3	1	91	2159	1	3	1	99	2211	1	3	1	102
					3	2062	1	3	1	95	2244	1	3	1	103	2298	1	3	1	106
					3HS	1665	0	3	1	77	1811	0	3	1	83	1855	0	3	1	85
					4	2055	0	3	1	95	2236	1	3	1	103	2290	1	3	1	106
					5	2109	1	3	1	97	2295	1	3	1	106	2350	1	3	1	108

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DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

PA7R
BOLLARD

DELIVERED LUMENS (CONTINUED)

Drive Current	LEDs #	Nominal Watts	Nominal Lumens	Lens Options	Distribution	3000K 70CRI					4000K 70CRI					5000K 70CRI				
						Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
							B	U	G			B	U	G			B	U	G	
550mA	12L	22	2,000	DL Diffused Vertical Lens	1	1639	1	3	2	76	1783	1	3	2	82	1826	1	3	2	84
					5	1721	1	3	2	79	1873	1	3	2	86	1918	1	3	2	88
				LV External Louvers	1	746	0	3	1	34	811	1	3	1	37	831	1	3	1	38
					2	814	1	3	1	37	885	1	3	1	41	907	1	3	1	42
					3	838	1	3	1	39	912	1	3	1	42	934	1	3	1	43
					3HS	605	0	3	1	28	658	0	3	1	30	674	0	3	1	31
					4	879	0	3	1	41	956	1	3	1	44	979	1	3	1	45
					5	888	1	3	1	41	966	1	3	1	45	989	1	3	1	46
				GC Grill with Clear Lens	1	1038	0	3	1	48	1130	0	3	1	52	1157	0	3	1	53
					2	1021	0	3	1	47	1111	1	3	1	51	1138	1	3	1	52
					3	1024	0	3	1	47	1114	1	3	1	51	1141	1	3	1	53
					3HS	854	0	3	1	39	930	0	3	1	43	952	0	3	1	44
					4	1109	0	3	1	51	1207	0	3	1	56	1236	0	3	1	57
					5	1037	1	3	1	48	1128	1	3	1	52	1155	1	3	1	53
				GD Grill with Diffused Lens	1	1036	0	3	1	48	1127	1	3	2	52	1154	1	3	2	53
					5	953	1	3	1	44	1037	1	3	1	48	1062	1	3	1	49

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DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

PA7R
BOLLARD

DELIVERED LUMENS (CONTINUED)

Drive Current	LEDs #	Nominal Watts	Nominal Lumens	Lens Options	Distribution	3000K 70CRI					4000K 70CRI					5000K 70CRI				
						Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
							B	U	G			B	U	G			B	U	G	
350mA	12L	14	1,000	NU U0 Optics	1	749	0	0	0	54	815	0	0	0	59	835	0	0	0	60
					2	860	0	0	0	62	936	0	0	0	67	958	0	0	0	69
					3	809	0	0	0	58	881	0	0	0	63	902	0	0	0	65
					3HS	684	0	0	0	49	744	0	0	0	53	762	0	0	0	55
					4	977	0	0	0	70	1063	0	0	0	76	1089	0	0	0	78
					5	908	1	0	0	65	988	1	0	0	71	1011	1	0	0	73
				CH Clear Horizontal Lens	1	1184	0	3	1	85	1288	0	3	1	92	1319	0	3	1	95
					2	1139	0	3	1	82	1239	0	3	1	89	1269	0	3	1	91
					3	1094	0	3	1	79	1190	0	3	1	85	1219	0	3	1	87
					3HS	960	0	3	1	69	1045	0	3	1	75	1070	0	3	1	77
					4	1152	0	3	1	83	1254	0	3	1	90	1284	0	3	1	92
					5	1225	1	3	1	88	1333	1	3	1	96	1365	1	3	1	98
				CL Clear Vertical Lens	1	1146	0	3	1	82	1247	0	3	1	90	1277	0	3	1	92
					2	1228	0	3	1	88	1336	1	3	1	96	1368	1	3	1	98
					3	1276	0	3	1	92	1389	1	3	1	100	1422	1	3	1	102
					3HS	1030	0	3	1	74	1121	0	3	1	80	1148	0	3	1	82
					4	1272	0	3	1	91	1384	0	3	1	99	1417	0	3	1	102
					5	1305	1	3	1	94	1420	1	3	1	102	1454	1	3	1	104
				DL Diffused Vertical Lens	1	1086	0	3	1	78	1182	0	3	1	85	1210	0	3	1	87
					5	1141	1	3	1	82	1241	1	3	1	89	1271	1	3	1	91

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DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

PA7R
BOLLARD

DELIVERED LUMENS (CONTINUED)

Drive Current	LEDs #	Nominal Watts	Nominal Lumens	Lens Options	Distribution	3000K 70CRI					4000K 70CRI					5000K 70CRI				
						Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
							B	U	G			B	U	G			B	U	G	
350mA	12L	14	1,000	LV External Louvers	1	489	0	3	1	35	533	0	3	1	38	545	0	3	1	39
					2	534	0	3	1	38	581	0	3	1	42	595	0	3	1	43
					3	550	0	3	1	40	599	0	3	1	43	613	0	3	1	44
					3HS	397	0	3	1	29	432	0	3	1	31	442	0	3	1	32
					4	577	0	3	1	41	628	0	3	1	45	643	0	3	1	46
					5	583	1	3	1	42	634	1	3	1	46	649	1	3	1	47
				GC Grill with Clear Lens	1	843	0	3	1	61	917	0	3	1	66	939	0	3	1	67
					2	829	0	3	1	60	903	0	3	1	65	924	0	3	1	66
					3	831	0	3	1	60	905	0	3	1	65	926	0	3	1	67
					3HS	694	0	3	1	50	755	0	3	1	54	773	0	3	1	56
					4	901	0	3	1	65	980	0	3	1	70	1004	0	3	1	72
					5	842	1	3	1	60	916	1	3	1	66	938	1	3	1	67
				GD Grill with Diffused Lens	1	728	0	3	1	52	792	0	3	1	57	811	0	3	1	58
					5	782	1	3	1	56	851	1	3	1	61	872	1	3	1	63

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DATE: LOCATION:

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PA7R
BOLLARD

PHOTOMETRY

PA7R-CH1-12L-020-4K7

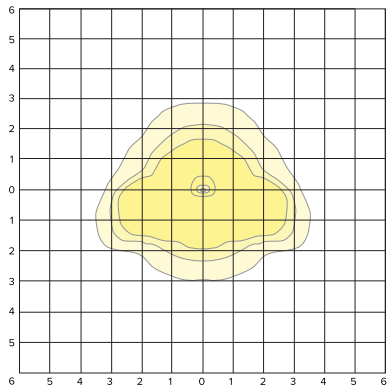
LUMINAIRE DATA

Description	**4000K, 70CRI**
Delivered Lumens	**1935**
Watts	**22**
Efficacy	**88.0**
IES Type	**II**
BUG Rating	**B0-U3-G1**
Mounting Height	**3.5 ft**
Grid Scale	**6 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	1132	81.8%
Downward House Side	251	18.1%
Downward Total	1384	71%
Upward Street Side	348	63%
Upward House Side	205	37%
Upward Total	553	29%
Total Flux	1937	100%

ISOFOOT CANDLE PLOT



PA7R-CH2-12L-020-4K7

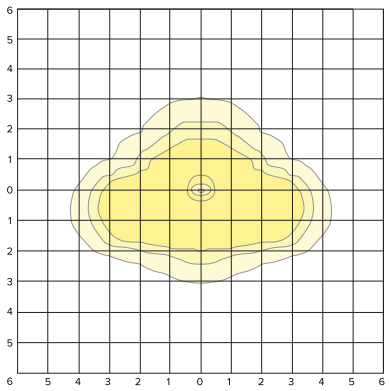
LUMINAIRE DATA

Description	**4000K, 70CRI**
Delivered Lumens	**1862**
Watts	**22**
Efficacy	**85.0**
IES Type	**II**
BUG Rating	**B1-U3-G1**
Mounting Height	**3.5 ft**
Grid Scale	**6 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	1176	78.7%
Downward House Side	319	21.3%
Downward Total	1494	80%
Upward Street Side	220	60%
Upward House Side	149	40%
Upward Total	369	20%
Total Flux	1863	100%

ISOFOOT CANDLE PLOT



PA7R-CH3-12L-020-4K7

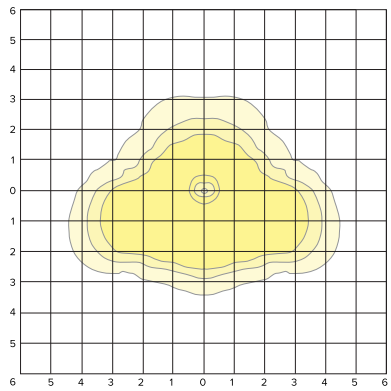
LUMINAIRE DATA

Description	**4000K, 70CRI**
Delivered Lumens	**1788**
Watts	**21.76**
Efficacy	**82.0**
IES Type	**III**
BUG Rating	**B1-U3-G1**
Mounting Height	**3.5 ft**
Grid Scale	**6 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	1184	80.3%
Downward House Side	290	19.7%
Downward Total	1474	82%
Upward Street Side	185	59%
Upward House Side	130	41%
Upward Total	315	18%
Total Flux	1789	100%

ISOFOOT CANDLE PLOT



TYPE OBA

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PA7R
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PHOTOMETRY

PA7R-CH3HS-12L-020-4K7

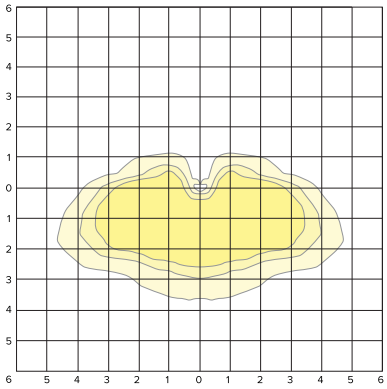
LUMINAIRE DATA

Description	**4000K, 70CRI**
Delivered Lumens	**1570**
Watts	**21.64**
Efficacy	**73.0**
IES Type	**III**
BUG Rating	**B0-U3-G1**
Mounting Height	**3.5 ft**
Grid Scale	**6 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	1187	92.0%
Downward House Side	103	8.0%
Downward Total	1290	82%
Upward Street Side	230	82%
Upward House Side	51	18%
Upward Total	282	18%
Total Flux	1571	100%

ISOFOOT CANDLE PLOT



PA7R-CH4-12L-020-4K7

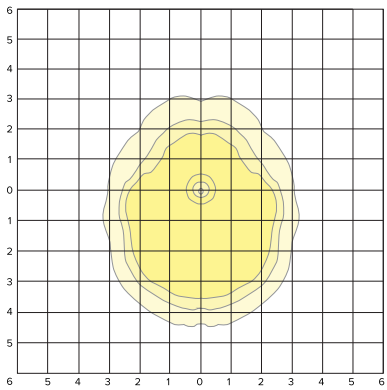
LUMINAIRE DATA

Description	**4000K, 70CRI**
Delivered Lumens	**1884**
Watts	**21.73**
Efficacy	**87.0**
IES Type	**IV**
BUG Rating	**B0-U3-G1**
Mounting Height	**3.5 ft**
Grid Scale	**6 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	1316	84.0%
Downward House Side	250	16.0%
Downward Total	1566	83%
Upward Street Side	184	58%
Upward House Side	136	42%
Upward Total	319	17%
Total Flux	1885	100%

ISOFOOT CANDLE PLOT



TYPE OBB

PA7R-CH5-12L-020-4K7

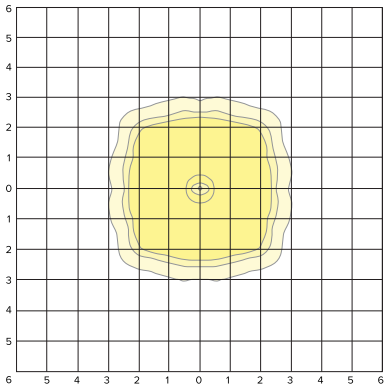
LUMINAIRE DATA

Description	**4000K, 70CRI**
Delivered Lumens	**2003**
Watts	**21.73**
Efficacy	**92.0**
IES Type	**VS**
BUG Rating	**B1-U3-G1**
Mounting Height	**3.5 ft**
Grid Scale	**6 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	825	50.0%
Downward House Side	825	50.0%
Downward Total	1650	82%
Upward Street Side	177	50%
Upward House Side	177	50%
Upward Total	354	18%
Total Flux	2004	100%

ISOFOOT CANDLE PLOT



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PA7R
BOLLARD

PHOTOMETRY

PA7R-CL1-12L-020-4K7

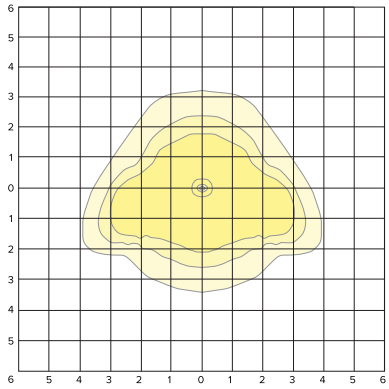
LUMINAIRE DATA

Description	**4000K, 70CRI**
Delivered Lumens	**2016**
Watts	**21.7**
Efficacy	**93.0**
IES Type	**II**
BUG Rating	**B1-U4-G1**
Mounting Height	**3.5 ft**
Grid Scale	**6 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	1078	77.5%
Downward House Side	312	22.5%
Downward Total	1390	69%
Upward Street Side	373	59%
Upward House Side	254	41%
Upward Total	627	31%
Total Flux	2017	100%

ISOFOOT CANDLE PLOT



PA7R-CL2-12L-020-4K7

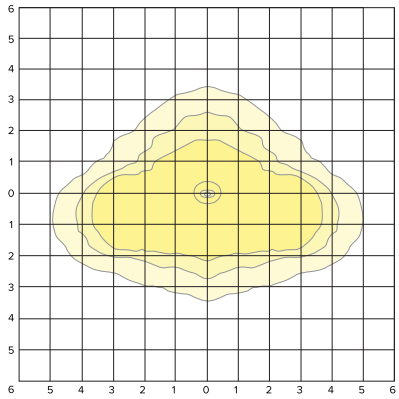
LUMINAIRE DATA

Description	**4000K, 70CRI**
Delivered Lumens	**2159**
Watts	**21.69**
Efficacy	**100.0**
IES Type	**II**
BUG Rating	**B1-U3-G1**
Mounting Height	**3.5 ft**
Grid Scale	**6 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	1325	77.5%
Downward House Side	384	22.5%
Downward Total	1709	79%
Upward Street Side	258	57%
Upward House Side	193	43%
Upward Total	451	21%
Total Flux	2160	100%

ISOFOOT CANDLE PLOT



PA7R-CL3-12L-020-4K7

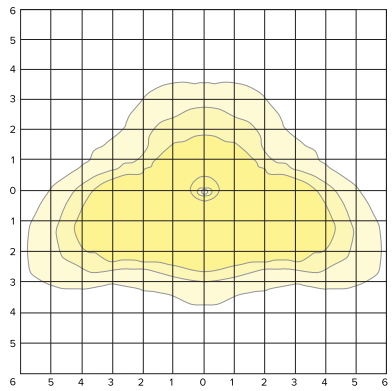
LUMINAIRE DATA

Description	**4000K, 70CRI**
Delivered Lumens	**2244**
Watts	**21.72**
Efficacy	**103.0**
IES Type	**III**
BUG Rating	**B1-U3-G1**
Mounting Height	**3.5 ft**
Grid Scale	**6 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	1472	80.0%
Downward House Side	367	20.0%
Downward Total	1839	82%
Upward Street Side	231	57%
Upward House Side	175	43%
Upward Total	406	18%
Total Flux	2245	100%

ISOFOOT CANDLE PLOT



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PHOTOMETRY

PA7R-CL3HS-12L-020-4K7

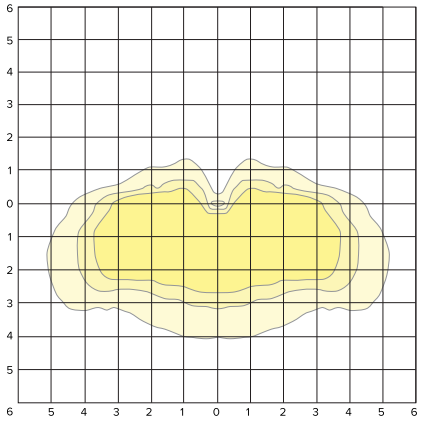
LUMINAIRE DATA

Description	**4000K, 70CRI**
Delivered Lumens	**1811**
Watts	**21.7**
Efficacy	**83.0**
IES Type	**III**
BUG Rating	**B0-U3-G1**
Mounting Height	**3.5 ft**
Grid Scale	**6 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	1361	92.0%
Downward House Side	118	8.0%
Downward Total	1479	82%
Upward Street Side	277	83%
Upward House Side	56	17%
Upward Total	334	18%
Total Flux	1812	100%

ISOFOOT CANDLE PLOT



PA7R-CL4-12L-020-4K7

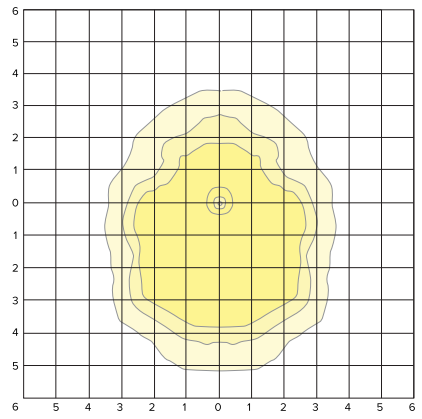
LUMINAIRE DATA

Description	**4000K, 70CRI**
Delivered Lumens	**2236**
Watts	**21.71**
Efficacy	**103.0**
IES Type	**IV**
BUG Rating	**B1-U3-G1**
Mounting Height	**3.5 ft**
Grid Scale	**6 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	1552	84.9%
Downward House Side	275	15.0%
Downward Total	1827	82%
Upward Street Side	230	56%
Upward House Side	180	44%
Upward Total	410	18%
Total Flux	2237	100%

ISOFOOT CANDLE PLOT



PA7R-CL5-12L-020-4K7

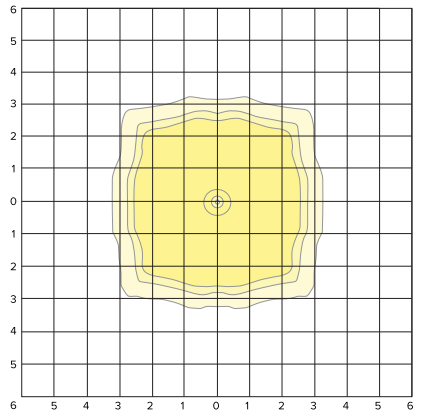
LUMINAIRE DATA

Description	**4000K, 70CRI**
Delivered Lumens	**2296**
Watts	**21.75**
Efficacy	**106.0**
IES Type	**VS**
BUG Rating	**B1-U3-G1**
Mounting Height	**3.5 ft**
Grid Scale	**6 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	937	50.0%
Downward House Side	937	50.0%
Downward Total	1874	82%
Upward Street Side	211	50%
Upward House Side	211	50%
Upward Total	422	18%
Total Flux	2296	100%

ISOFOOT CANDLE PLOT



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PA7R
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PHOTOMETRY

PA7R-DL1-12L-020-4K7

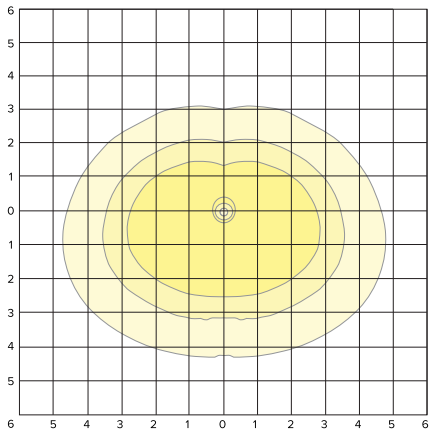
LUMINAIRE DATA

Description	**4000K, 70CRI**
Delivered Lumens	**1783**
Watts	**21.74**
Efficacy	**82.0**
IES Type	**IV**
BUG Rating	**B1-U3-G2**
Mounting Height	**3.5 ft**
Grid Scale	**6 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	746	66.2%
Downward House Side	381	33.8%
Downward Total	1127	63%
Upward Street Side	408	62%
Upward House Side	248	38%
Upward Total	657	37%
Total Flux	1784	100%

ISOFOOT CANDLE PLOT



PA7R-DL5-12L-020-4K7

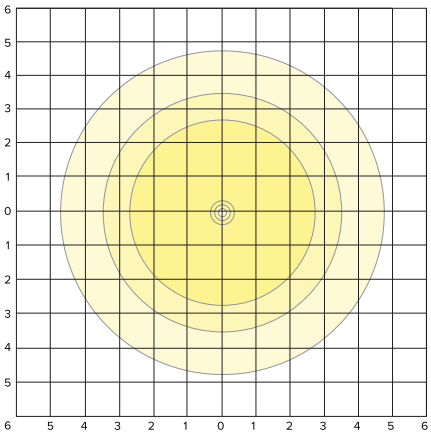
LUMINAIRE DATA

Description	**4000K, 70CRI**
Delivered Lumens	**1873**
Watts	**21.75**
Efficacy	**86.0**
IES Type	**VS**
BUG Rating	**B1-U3-G2**
Mounting Height	**3.5 ft**
Grid Scale	**6 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	656	50.0%
Downward House Side	656	50.0%
Downward Total	1313	70%
Upward Street Side	281	50%
Upward House Side	281	50%
Upward Total	561	30%
Total Flux	1874	100%

ISOFOOT CANDLE PLOT



PA7R-GC1-12L-020-4K7

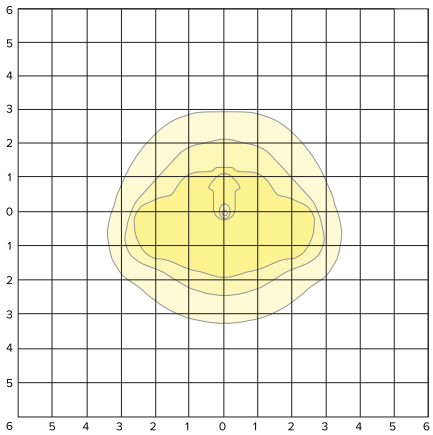
LUMINAIRE DATA

Description	**4000K, 70CRI**
Delivered Lumens	**1130**
Watts	**21.73**
Efficacy	**52.0**
IES Type	**II**
BUG Rating	**B0-U3-G1**
Mounting Height	**3.5 ft**
Grid Scale	**6 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	434	67.6%
Downward House Side	208	32.4%
Downward Total	642	57%
Upward Street Side	298	61%
Upward House Side	191	39%
Upward Total	489	43%
Total Flux	1131	100%

ISOFOOT CANDLE PLOT



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PHOTOMETRY

PA7R-GC2-12L-020-4K7

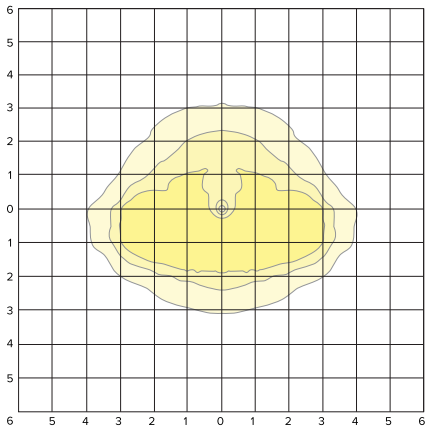
LUMINAIRE DATA

Description	**4000K, 70CRI**
Delivered Lumens	**1111**
Watts	**21.59**
Efficacy	**51.0**
IES Type	**II**
BUG Rating	**B1-U3-G1**
Mounting Height	**3.5 ft**
Grid Scale	**6 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	488	68.3%
Downward House Side	227	31.7%
Downward Total	715	64%
Upward Street Side	238	60%
Upward House Side	159	40%
Upward Total	397	36%
Total Flux	1112	100%

ISOFOOT CANDLE PLOT



PA7R-GC3-12L-020-4K7

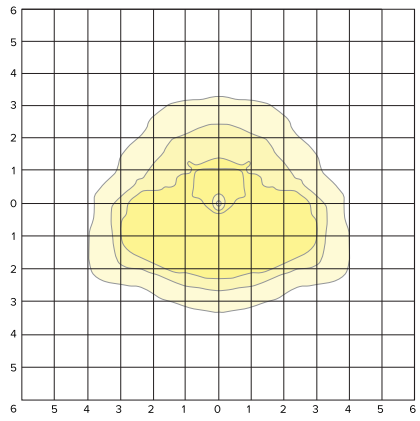
LUMINAIRE DATA

Description	**4000K, 70CRI**
Delivered Lumens	**1114**
Watts	**21.7**
Efficacy	**51.0**
IES Type	**II**
BUG Rating	**B1-U3-G1**
Mounting Height	**3.5 ft**
Grid Scale	**6 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	513	69.8%
Downward House Side	221	30.1%
Downward Total	735	66%
Upward Street Side	234	62%
Upward House Side	146	38%
Upward Total	380	34%
Total Flux	1114	100%

ISOFOOT CANDLE PLOT



PA7R-GC3HS-12L-020-4K7

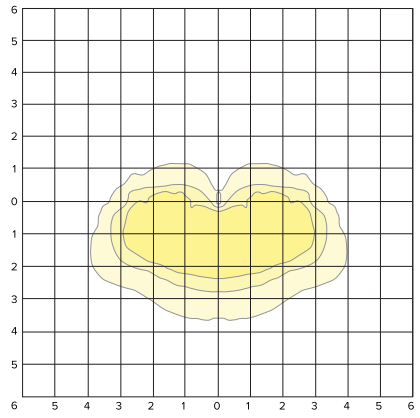
LUMINAIRE DATA

Description	**4000K, 70CRI**
Delivered Lumens	**930**
Watts	**21.59**
Efficacy	**43.0**
IES Type	**III**
BUG Rating	**B0-U3-G1**
Mounting Height	**3.5 ft**
Grid Scale	**6 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	533	87.1%
Downward House Side	79	12.8%
Downward Total	612	66%
Upward Street Side	265	83%
Upward House Side	54	17%
Upward Total	319	34%
Total Flux	931	100%

ISOFOOT CANDLE PLOT



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PHOTOMETRY

PA7R-GC4-12L-020-4K7

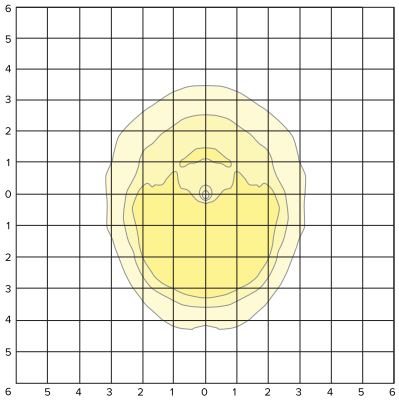
LUMINAIRE DATA

Description	**4000K, 70CRI**
Delivered Lumens	**1207**
Watts	**21.59**
Efficacy	**56.0**
IES Type	**IV**
BUG Rating	**B0-U3-G1**
Mounting Height	**3.5 ft**
Grid Scale	**6 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	591	74.2%
Downward House Side	205	25.8%
Downward Total	796	66%
Upward Street Side	267	65%
Upward House Side	146	35%
Upward Total	412	34%
Total Flux	1208	100%

ISOFOOT CANDLE PLOT



PA7R-GC5-12L-020-4K7

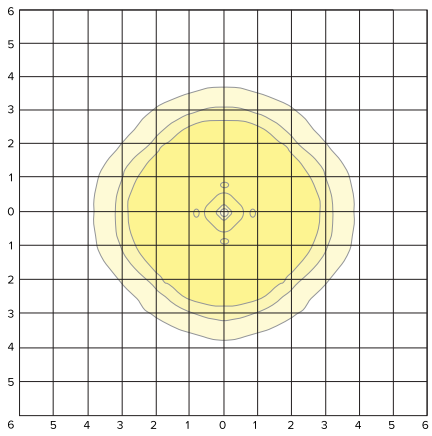
LUMINAIRE DATA

Description	**4000K, 70CRI**
Delivered Lumens	**1128**
Watts	**21.59**
Efficacy	**52.0**
IES Type	**VS**
BUG Rating	**B1-U3-G1**
Mounting Height	**3.5 ft**
Grid Scale	**6 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	382	50.0%
Downward House Side	382	50.0%
Downward Total	764	68%
Upward Street Side	183	50%
Upward House Side	183	50%
Upward Total	365	32%
Total Flux	1129	100%

ISOFOOT CANDLE PLOT



PA7R-GD1-12L-020-4K7

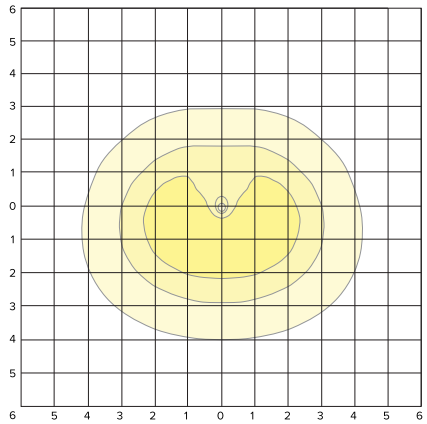
LUMINAIRE DATA

Description	**4000K, 70CRI**
Delivered Lumens	**1127**
Watts	**21.71**
Efficacy	**51.9**
IES Type	**IV**
BUG Rating	**B1-U3-G2**
Mounting Height	**3.5 ft**
Grid Scale	**6 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	407	62.8%
Downward House Side	241	37.2%
Downward Total	648	57%
Upward Street Side	287	60%
Upward House Side	193	40%
Upward Total	479	43%
Total Flux	1127	100%

ISOFOOT CANDLE PLOT



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DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

PA7R
BOLLARD

PHOTOMETRY

PA7R-GD5-12L-020-4K7

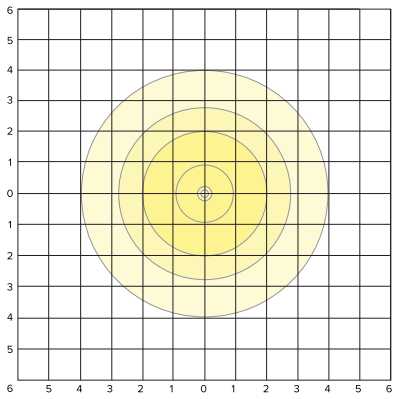
LUMINAIRE DATA

Description	**4000K, 70CRI**
Delivered Lumens	**1037**
Watts	**21.6**
Efficacy	**48.0**
IES Type	**VS**
BUG Rating	**B1-U3-G1**
Mounting Height	**3.5 ft**
Grid Scale	**6 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	309	50.0%
Downward House Side	309	50.0%
Downward Total	618	60%
Upward Street Side	210	50%
Upward House Side	210	50%
Upward Total	420	40%
Total Flux	1038	100%

ISOFOOT CANDLE PLOT



PA7R-LV1-12L-020-4K7

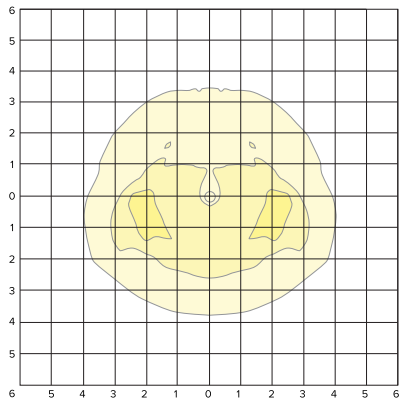
LUMINAIRE DATA

Description	**4000K, 70CRI**
Delivered Lumens	**811**
Watts	**21.73**
Efficacy	**37.0**
IES Type	**II**
BUG Rating	**B1-U3-G1**
Mounting Height	**3.5 ft**
Grid Scale	**6 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	303	57.7%
Downward House Side	222	42.2%
Downward Total	526	65%
Upward Street Side	160	56%
Upward House Side	126	44%
Upward Total	286	35%
Total Flux	812	100%

ISOFOOT CANDLE PLOT



PA7R-LV2-12L-020-4K7

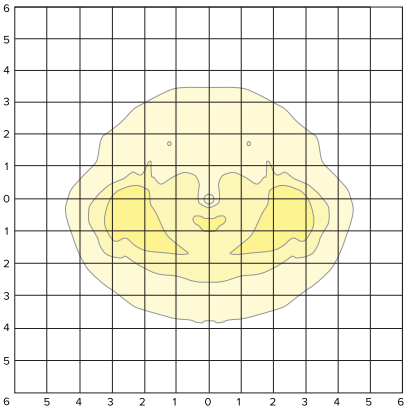
LUMINAIRE DATA

Description	**4000K, 70CRI**
Delivered Lumens	**885**
Watts	**21.68**
Efficacy	**41.0**
IES Type	**II**
BUG Rating	**B1-U3-G1**
Mounting Height	**3.5 ft**
Grid Scale	**6 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	378	61.9%
Downward House Side	233	38.1%
Downward Total	611	69%
Upward Street Side	158	58%
Upward House Side	116	42%
Upward Total	274	31%
Total Flux	885	100%

ISOFOOT CANDLE PLOT



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DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

PA7R
BOLLARD

PHOTOMETRY

PA7R-LV3-12L-020-4K7

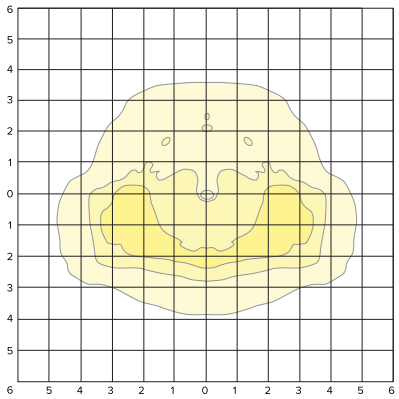
LUMINAIRE DATA

Description	**4000K, 70CRI**
Delivered Lumens	**912**
Watts	**21.69**
Efficacy	**42.0**
IES Type	**III**
BUG Rating	**B1-U3-G1**
Mounting Height	**3.5 ft**
Grid Scale	**6 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	414	63.7%
Downward House Side	233	35.8%
Downward Total	650	71%
Upward Street Side	154	59%
Upward House Side	109	41%
Upward Total	263	29%
Total Flux	913	100%

ISOFOOT CANDLE PLOT



PA7R-LV3HS-12L-020-4K7

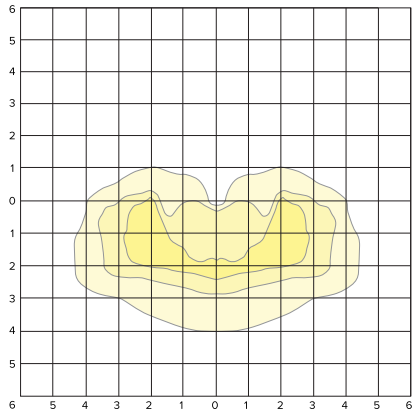
LUMINAIRE DATA

Description	**4000K, 70CRI**
Delivered Lumens	**658**
Watts	**21.69**
Efficacy	**30.0**
IES Type	**III**
BUG Rating	**B0-U3-G1**
Mounting Height	**3.5 ft**
Grid Scale	**6 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	383	82.5%
Downward House Side	81	17.5%
Downward Total	464	71%
Upward Street Side	155	80%
Upward House Side	39	20%
Upward Total	194	29%
Total Flux	658	100%

ISOFOOT CANDLE PLOT



PA7R-LV4-12L-020-4K7

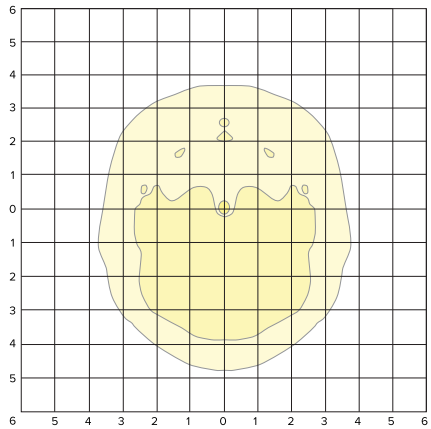
LUMINAIRE DATA

Description	**4000K, 70CRI**
Delivered Lumens	**956**
Watts	**21.69**
Efficacy	**44.0**
IES Type	**IV**
BUG Rating	**B1-U3-G1**
Mounting Height	**3.5 ft**
Grid Scale	**6 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	454	67.5%
Downward House Side	219	32.5%
Downward Total	673	70%
Upward Street Side	176	62%
Upward House Side	107	38%
Upward Total	283	30%
Total Flux	956	100%

ISOFOOT CANDLE PLOT



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CATALOG #:

PA7R
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PHOTOMETRY

PA7R-LV5-12L-020-4K7

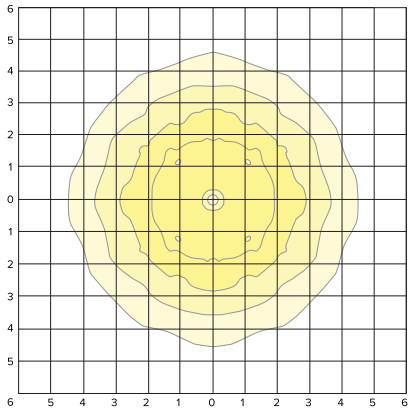
LUMINAIRE DATA

Description	**4000K, 70CRI**
Delivered Lumens	**966**
Watts	**21.7**
Efficacy	**45.0**
IES Type	**VS**
BUG Rating	**B1-U3-G1**
Mounting Height	**3.5 ft**
Grid Scale	**6 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	354	50.0%
Downward House Side	354	50.0%
Downward Total	708	73%
Upward Street Side	129	50%
Upward House Side	129	50%
Upward Total	259	27%
Total Flux	967	100%

ISOFOOT CANDLE PLOT



PA7R-NU1-12L-020-4K7

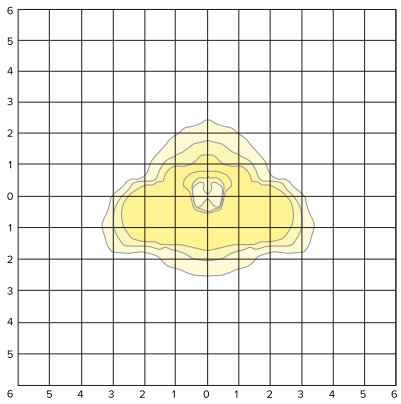
LUMINAIRE DATA

Description	**4000K, 70CRI**
Delivered Lumens	**1136**
Watts	**21.75**
Efficacy	**52.0**
IES Type	**I**
BUG Rating	**B0-U0-G0**
Mounting Height	**3.5 ft**
Grid Scale	**6 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	986	86.7%
Downward House Side	151	13.3%
Downward Total	1137	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	1137	100%

ISOFOOT CANDLE PLOT



PA7R-NU2-12L-020-4K7

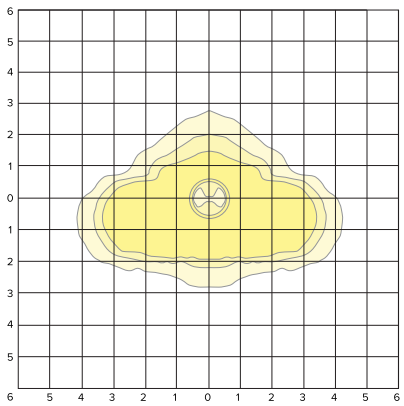
LUMINAIRE DATA

Description	**4000K, 70CRI**
Delivered Lumens	**1305**
Watts	**21.74**
Efficacy	**60.0**
IES Type	**II**
BUG Rating	**B0-U0-G0**
Mounting Height	**3.5 ft**
Grid Scale	**6 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	1073	82.2%
Downward House Side	233	17.8%
Downward Total	1306	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	1306	100%

ISOFOOT CANDLE PLOT



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PHOTOMETRY

PA7R-NU3-12L-020-4K7

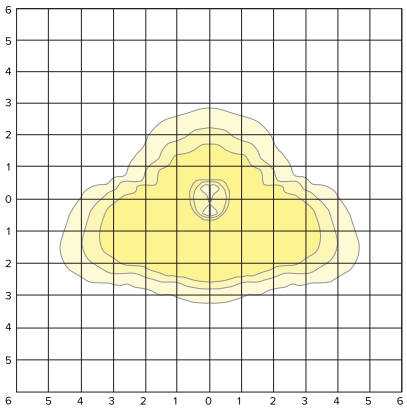
LUMINAIRE DATA

Description	**4000K, 70CRI**
Delivered Lumens	**1228**
Watts	**21.76**
Efficacy	**56.0**
IES Type	**III**
BUG Rating	**B0-U0-G1**
Mounting Height	**3.5 ft**
Grid Scale	**6 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	1035	84.3%
Downward House Side	194	15.8%
Downward Total	1228	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	1228	100%

ISOFOOT CANDLE PLOT



PA7R-NU3HS-12L-020-4K7

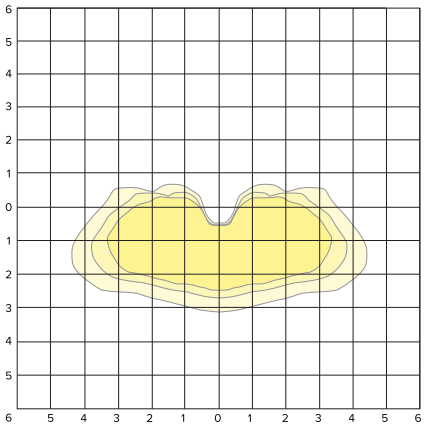
LUMINAIRE DATA

Description	**4000K, 70CRI**
Delivered Lumens	**1037**
Watts	**21.74**
Efficacy	**48.0**
IES Type	**III**
BUG Rating	**B0-U0-G0**
Mounting Height	**3.5 ft**
Grid Scale	**6 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	987	95.1%
Downward House Side	51	4.9%
Downward Total	1038	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	1038	100%

ISOFOOT CANDLE PLOT



PA7R-NU4-12L-020-4K7

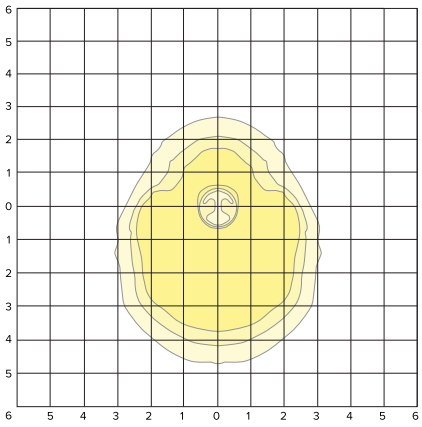
LUMINAIRE DATA

Description	**4000K, 70CRI**
Delivered Lumens	**1482**
Watts	**21.67**
Efficacy	**68.0**
IES Type	**IV**
BUG Rating	**B0-U0-G1**
Mounting Height	**3.5 ft**
Grid Scale	**6 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	1318	88.9%
Downward House Side	164	11.1%
Downward Total	1483	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	1483	100%

ISOFOOT CANDLE PLOT



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PHOTOMETRY(CONTINUED)

PA7R-NU5-12L-020-4K7

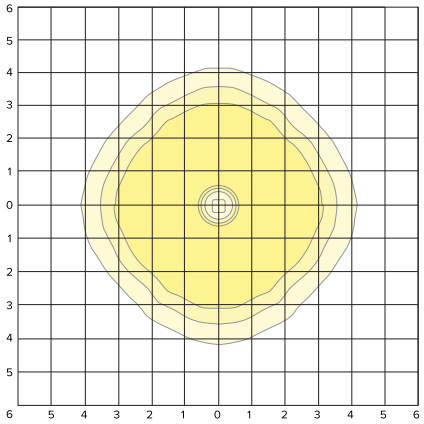
LUMINAIRE DATA

Description	**4000K, 70CRI**
Delivered Lumens	**1377**
Watts	**21.68**
Efficacy	**63.0**
IES Type	**VS**
BUG Rating	**B1-U0-G0**
Mounting Height	**3.5 ft**
Grid Scale	**6 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	689	50.0%
Downward House Side	689	50.0%
Downward Total	1377	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	1377	100%

ISOFOOT CANDLE PLOT



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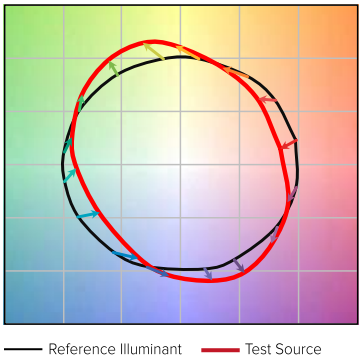
TM-30 DATA

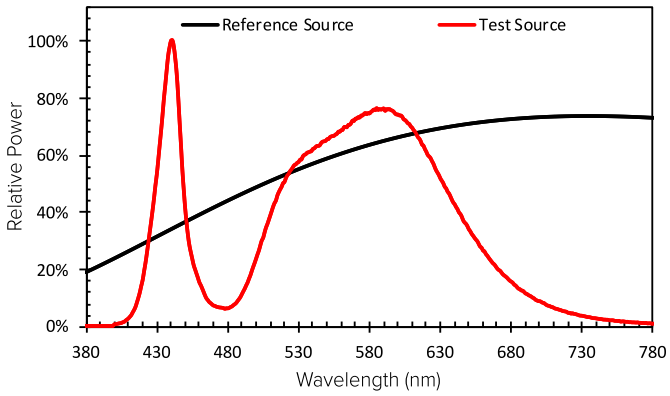
COLOR VECTOR GRAPHIC



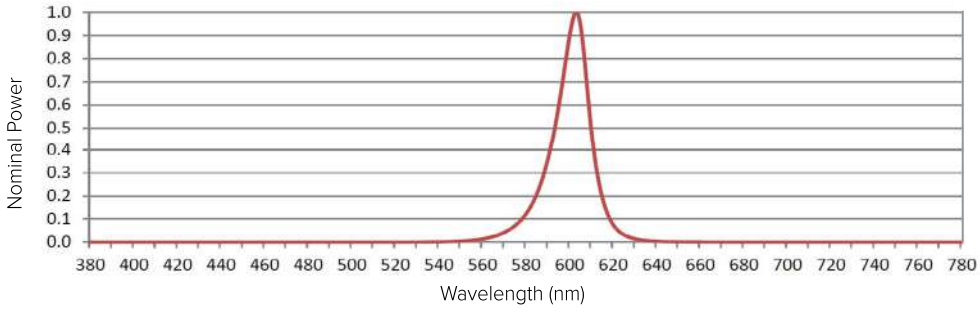
TEST SOURCE

R_f	68
R_g	99
CCT(K)	3947
D_{UV}	0.0004
x	0.3831
y	0.3793
CIE R_a	72

SPECTRAL POWER DISTRIBUTION COMPARISON



AMBER SPECTRAL POWER DISTRIBUTION



ELECTRICAL DATA

Electrical													Dimming				
# LED	System Watts	Drive Current	Line Voltage		Amps AC						Min. Power Factor	Max THD (%)	Dimming Range	Source current out of 0-10V		Absolute voltage range on 0-10V (+)	
			VAC	Hz	120	208	240	277	347	480				Min	Max	Min	Max
12	22	550mA	120-480	50/60	0.18	0.11	0.09	0.08	0.06	0.05	>0.9	20	10% to 100%	0mA	1mA	0V	10V
	14	350mA			0.12	0.07	0.06	0.05	0.04	0.03							

TM-21 Lifetime Calculation - Projected Lumen Maintenance (25°C / 77°C) & (40°C / 104°C)						
Hours	0	25,000	36,000	50,000	100,000	Reported L70
Projected Lumen Maintenance	100%	98%	97%	95%	90%	60khrs

CRI Lumen Multiplier 80 and 90 CRI		
CCT	80 CRI	90 CRI
2700K	0.859	0.655
3000K	0.9119	0.7033
3500K	0.906	0.732
4000K	0.8941	0.734
5000K	0.879	0.7712
Scailing factor of 5000K 70CRI lumen packages		

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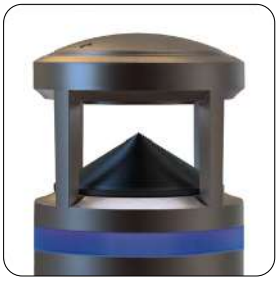
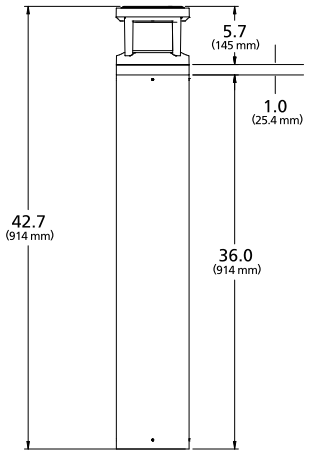
ADDITIONAL INFORMATION

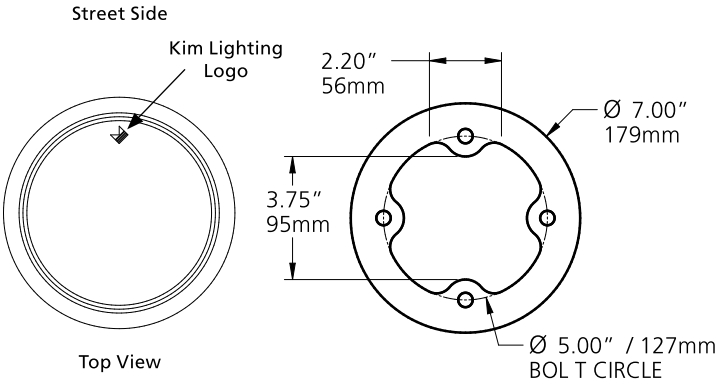
LUMINOUS ACCENT:
- The Luminous Accent option adds an additional 1" / 25.4mm to the overall fixture height and may be controlled via wired DMX RDM or Bluetooth® wireless. The Luminous Accent shall be IK08.



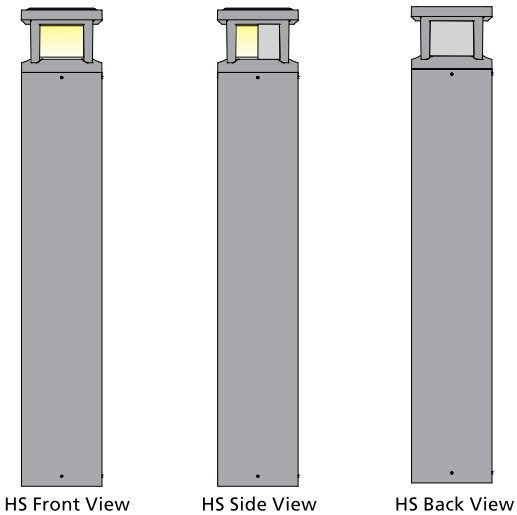


RGBW REMOTE APP
- The RGBW Remote application may be downloaded free of charge from the Apple App Store or Google Play.
- Color selection and adjustment.
- Camera function for color matching.
- Intensity slider for dimming/ramping up.
- Save and rename up to 10 presets.
- Group and rename fixtures.
- Fixture is password protected, refer to instructions to set unique password.

MOUNTING
ALUMINUM BODY
- Once attached to base mounting plate, fixture may be rotated 20° in either direction and secured with set screws at base of the bollard body. KIM Lighting logo indicates 'street side' output.



SHIELDING
- HS configurations feature factory installed 180° shield(s) that may also be installed in the field for any Optic configuration.



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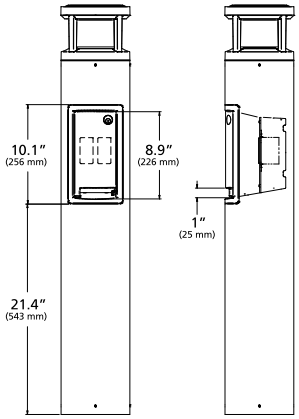
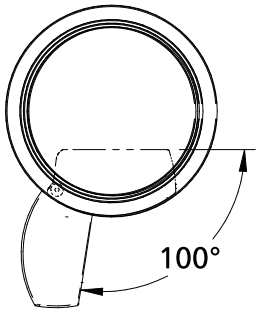
ADDITIONAL INFORMATION (CONTINUED)

RECEPTACLE OUTLET PANEL

- The Receptacle outlet panel shall be NEMA 3R rated for wet location(s) while in use and shall be compatible with any single receptacle outlet device with standard mounting holes. Door shall be self-closing. Tamper resistant lock must be specified at time of order. Devices and device wiring by others.

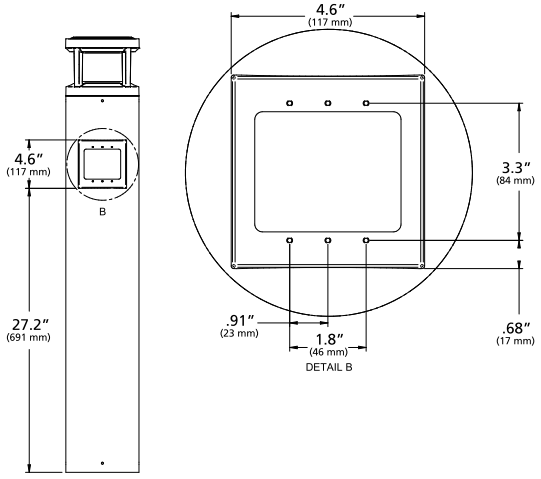




Range of Motion for access door

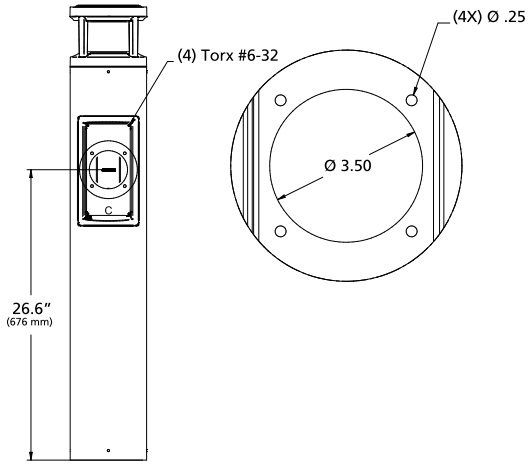
INTEGRAL ELECTRICAL BOX

- The integral 2 Gang electrical box shall be 3” deep and have standard mounting holes for installing either a single receptacle outlet device or a pair of single receptacle outlet device. Devices, device wiring, device hardware and bezel by others.



SPEAKER GRILLE ENCLOSURE

- The speaker grille enclosure shall accommodate a 3”Ø marine grade speaker rated for outdoor use. Grille shall be secured with (4) Torx # screws for accessibility. Mounting provisions as shown. Speaker, mounting bracket/hardware and wiring by others.



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IES ROAD REPORT
PHOTOMETRIC FILENAME : PA7R-NU3-12L-010-4K7.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]
[TESTLAB] CURRENT
[ISSUEDATE] 10/6/2017
[MANUFAC] KIM LIGHTING
[LUMCAT] PA7R-NU3-12L-010-4K7
[LUMINAIRE] PA7R
[LAMP] C-70-CRI
[MORE] DATA SHOWN IS ABSOLUTE.
[MORE] PRORATED FROM 5000K.
[_SEARCH_SOURCETYPE] LED
[_SEARCH_CRI] 70
[_SEARCH_COLORTEMP] 4000k
[_SEARCH_APPLICATION] Outdoor, Bollard, Amusement, Automotive, Commercial, Dock, Educational, Government,
[_SEARCH_MOUNTING] Bollard
[_ABSOLUTELUMENS] 881

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	881
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	63
Total Luminaire Watts	14.08
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	786
Maximum Candela Angle	60H 65V
Maximum Candela (<90 Degrees Vertical)	786
Maximum Candela Angle (<90 Degrees Vertical)	60H 65V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	96 (10.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : PA7R-NU3-12L-010-4K7.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1.4	N.A.	0.2
FM - Front-Medium (30-60)	383.0	N.A.	43.5
FH - Front-High (60-80)	341.0	N.A.	38.7
FVH - Front-Very High (80-90)	7.2	N.A.	0.8
BL - Back-Low (0-30)	1.1	N.A.	0.1
BM - Back-Medium (30-60)	78.0	N.A.	8.9
BH - Back-High (60-80)	64.8	N.A.	7.4
BVH - Back-Very High (80-90)	4.4	N.A.	0.5
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	880.9	N.A.	100.0
BUG Rating	B0-U0-G0		

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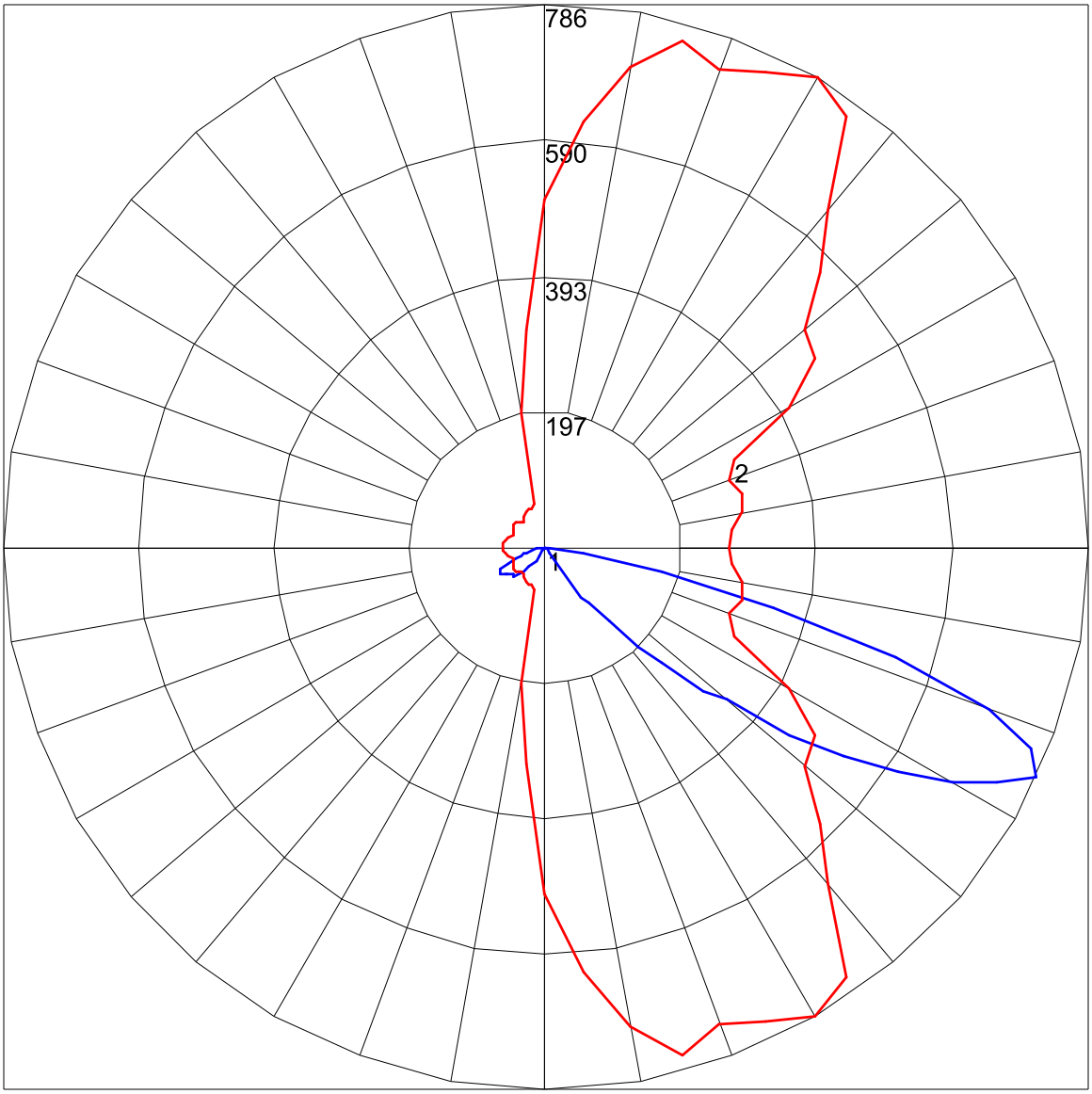
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : PA7R-NU3-12L-010-4K7.IES

POLAR GRAPH



Maximum Candela = 786 Located At Horizontal Angle = 60, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (60 - 240) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

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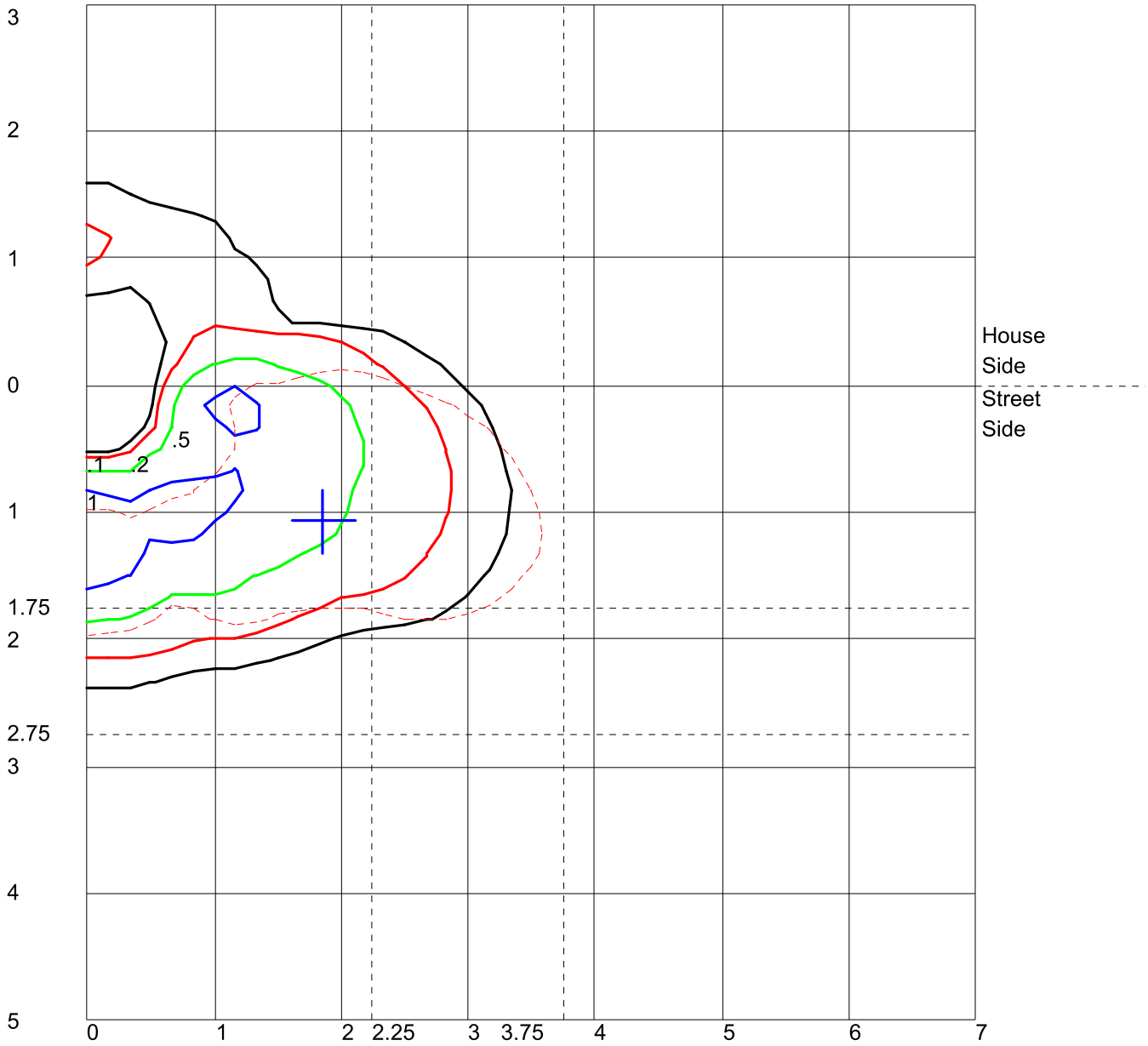
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : PA7R-NU3-12L-010-4K7.IES

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



Distance In Units Of Mounting Height
Values Based On 10 Foot Mounting Height
1/2 Maximum Candela Trace Shown As Dashed Curve
(+) = Maximum Candela Point

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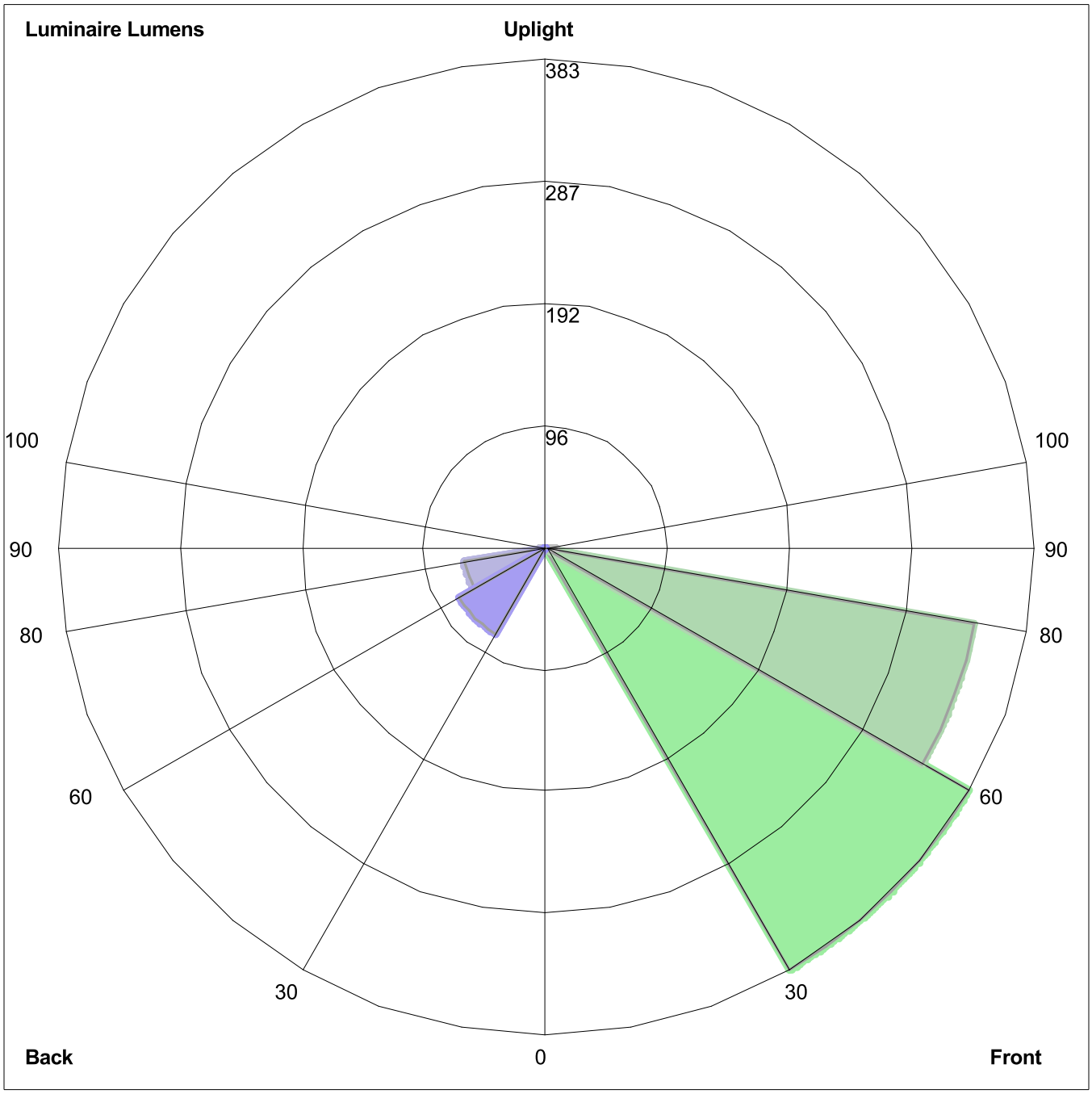
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : PA7R-NU3-12L-010-4K7.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1.4, Medium=383.0, High=341.0, Very High=7.2
Back: Low=1.1, Medium=78.0, High=64.8, Very High=4.4
Uplight: Low=0.0, High=0.0

BUG Rating : B0-U0-G0

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Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : PA7R-NU4-12L-010-4K7.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]
[TESTLAB] CURRENT
[ISSUEDATE] 10/6/2017
[MANUFAC] KIM LIGHTING
[LUMCAT] PA7R-NU4-12L-010-4K7
[LUMINAIRE] PA7R
[LAMP] C-70-CRI
[MORE] DATA SHOWN IS ABSOLUTE.
[_SEARCH_SOURCETYPE] LED
[_SEARCH_CRI] 70
[_SEARCH_COLORTEMP] 4000k
[_SEARCH_APPLICATION] Outdoor, Bollard, Amusement, Automotive, Commercial, Dock, Educational, Government,
[_SEARCH_MOUNTING] Bollard
[_ABSOLUTELUMENS] 1063

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1063
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	76
Total Luminaire Watts	14
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1489
Maximum Candela Angle	0H 65V
Maximum Candela (<90 Degrees Vertical)	1489
Maximum Candela Angle (<90 Degrees Vertical)	0H 65V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	95 (8.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : PA7R-NU4-12L-010-4K7.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1.3	N.A.	0.1
FM - Front-Medium (30-60)	434.8	N.A.	40.9
FH - Front-High (60-80)	501.8	N.A.	47.2
FVH - Front-Very High (80-90)	7.6	N.A.	0.7
BL - Back-Low (0-30)	1.3	N.A.	0.1
BM - Back-Medium (30-60)	71.2	N.A.	6.7
BH - Back-High (60-80)	41.7	N.A.	3.9
BVH - Back-Very High (80-90)	3.5	N.A.	0.3
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	1063.2	N.A.	100.0
BUG Rating	B0-U0-G0		

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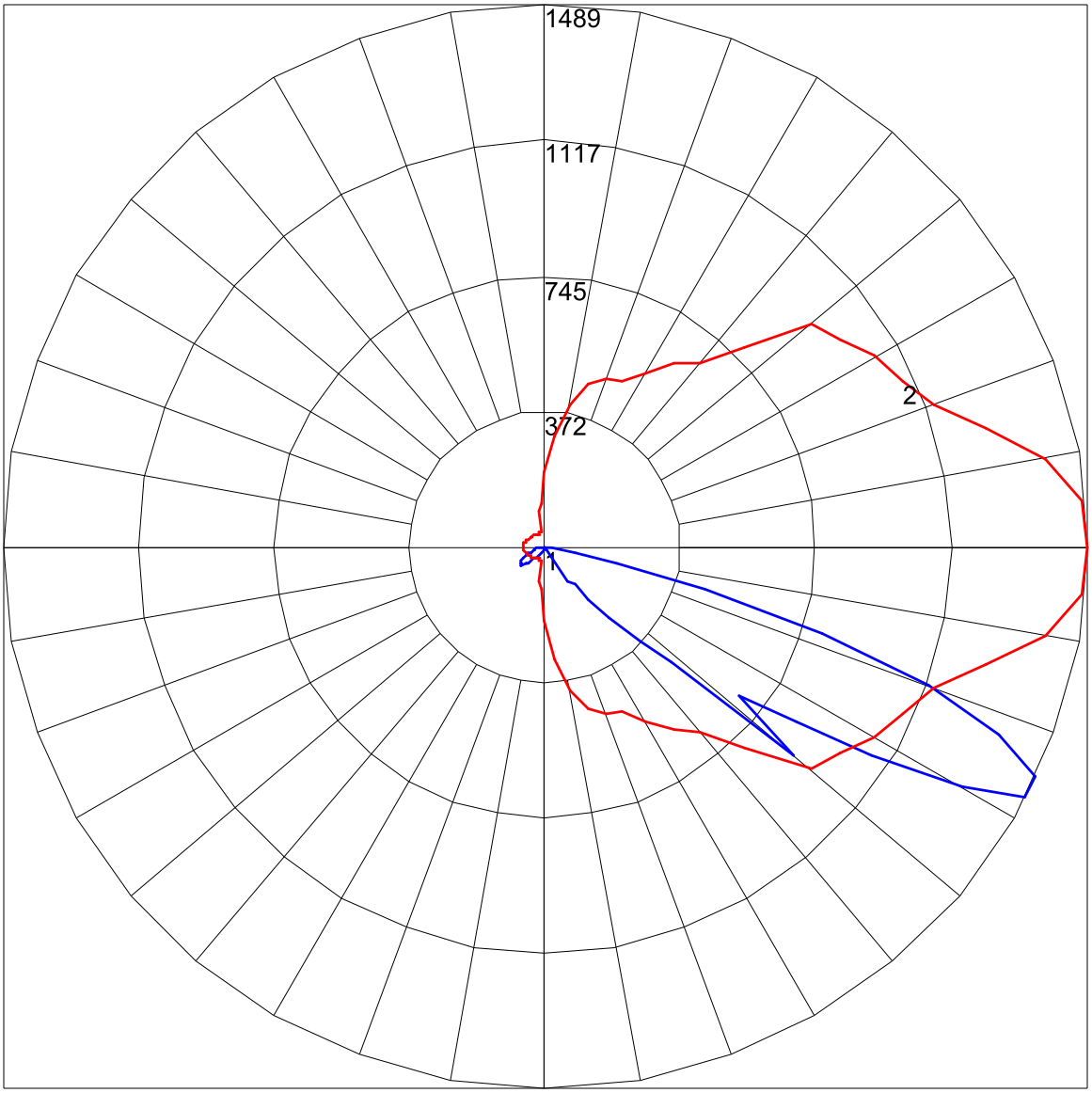
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : PA7R-NU4-12L-010-4K7.IES

POLAR GRAPH



Maximum Candela = 1489 Located At Horizontal Angle = 0, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

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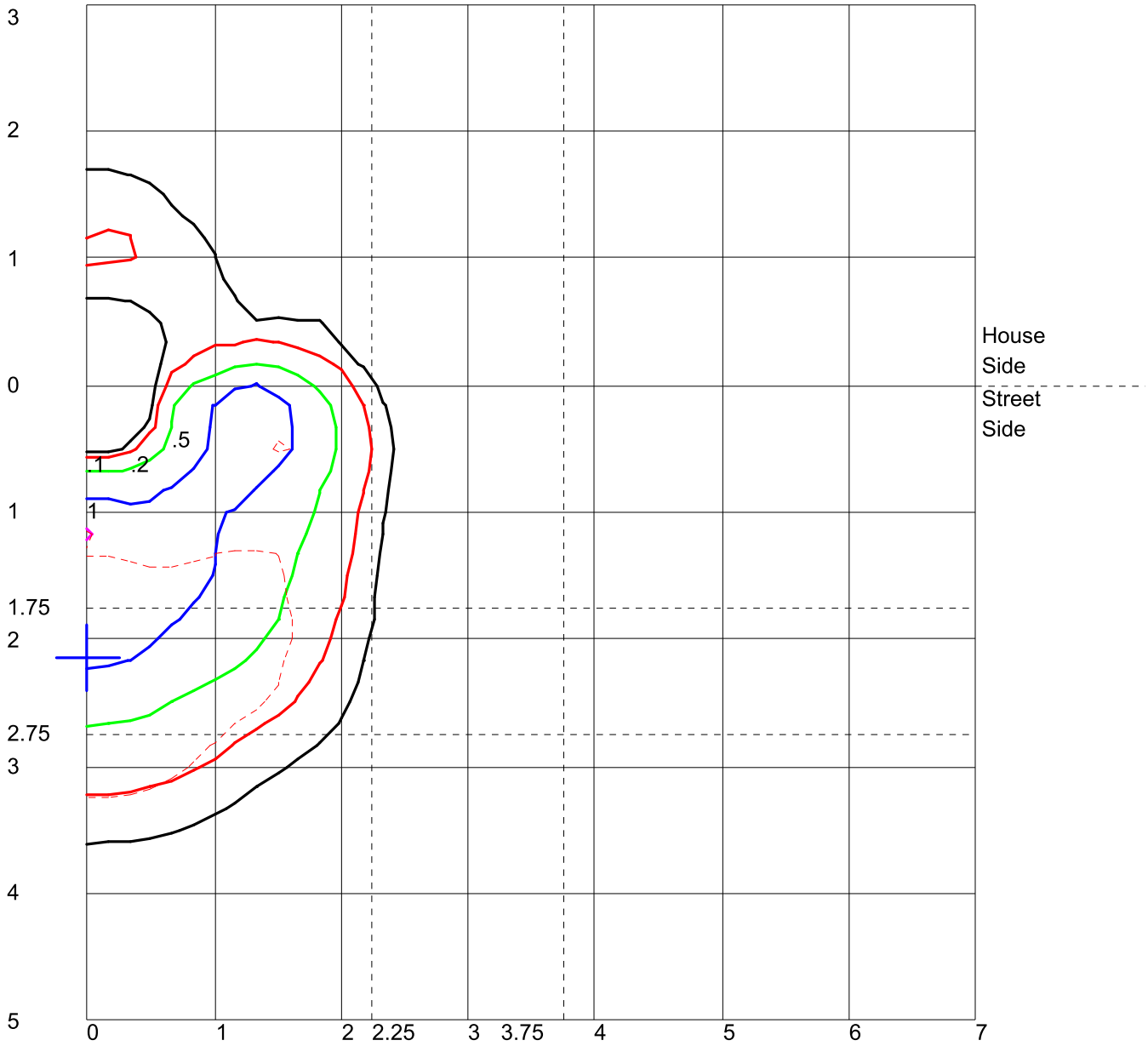
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : PA7R-NU4-12L-010-4K7.IES

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



Distance In Units Of Mounting Height
Values Based On 10 Foot Mounting Height
1/2 Maximum Candela Trace Shown As Dashed Curve
(+) = Maximum Candela Point

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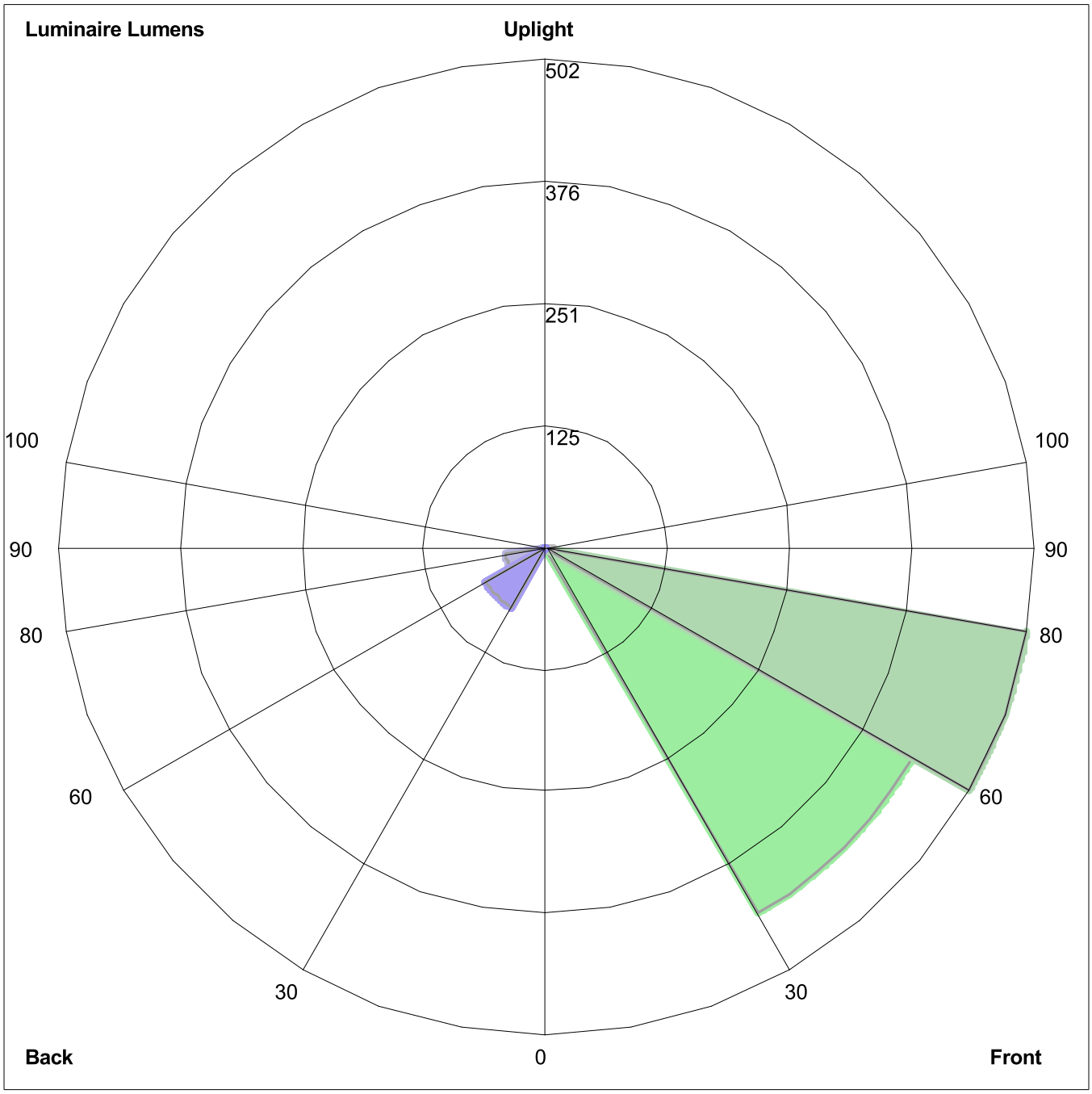
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : PA7R-NU4-12L-010-4K7.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1.3, Medium=434.8, High=501.8, Very High=7.6
Back: Low=1.3, Medium=71.2, High=41.7, Very High=3.5
Uplight: Low=0.0, High=0.0

BUG Rating : B0-U0-G0

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : PA7R-NU5-12L-010-4K7.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]
[TESTLAB] LIGHT LABORATORY, INC. (FOR CURRENT)
[ISSUEDATE] 10/6/2017
[MANUFAC] KIM LIGHTING
[LUMCAT] PA7R-NU5-12L-010-4K7
[LUMINAIRE] PA7R
[LAMP] C-70-CRI
[MORE] DATA SHOWN IS ABSOLUTE.
[_SEARCH_SOURCETYPE] LED
[_SEARCH_CRI] 70
[_SEARCH_COLORTEMP] 4000k
[_SEARCH_APPLICATION] Outdoor, Bollard, Amusement, Automotive, Commercial, Dock, Educational, Government,
[_SEARCH_MOUNTING] Bollard
[_ABSOLUTELUMENS] 988

CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	988
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	71
Total Luminaire Watts	14
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	427
Maximum Candela Angle	5H 60V
Maximum Candela (<90 Degrees Vertical)	427
Maximum Candela Angle (<90 Degrees Vertical)	5H 60V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	28 (2.8% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : PA7R-NU5-12L-010-4K7.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1.4	N.A.	0.1
FM - Front-Medium (30-60)	225.2	N.A.	22.8
FH - Front-High (60-80)	261.5	N.A.	26.5
FVH - Front-Very High (80-90)	5.8	N.A.	0.6
BL - Back-Low (0-30)	1.4	N.A.	0.1
BM - Back-Medium (30-60)	225.2	N.A.	22.8
BH - Back-High (60-80)	261.5	N.A.	26.5
BVH - Back-Very High (80-90)	5.8	N.A.	0.6
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	987.8	N.A.	100.0
BUG Rating	B1-U0-G0		

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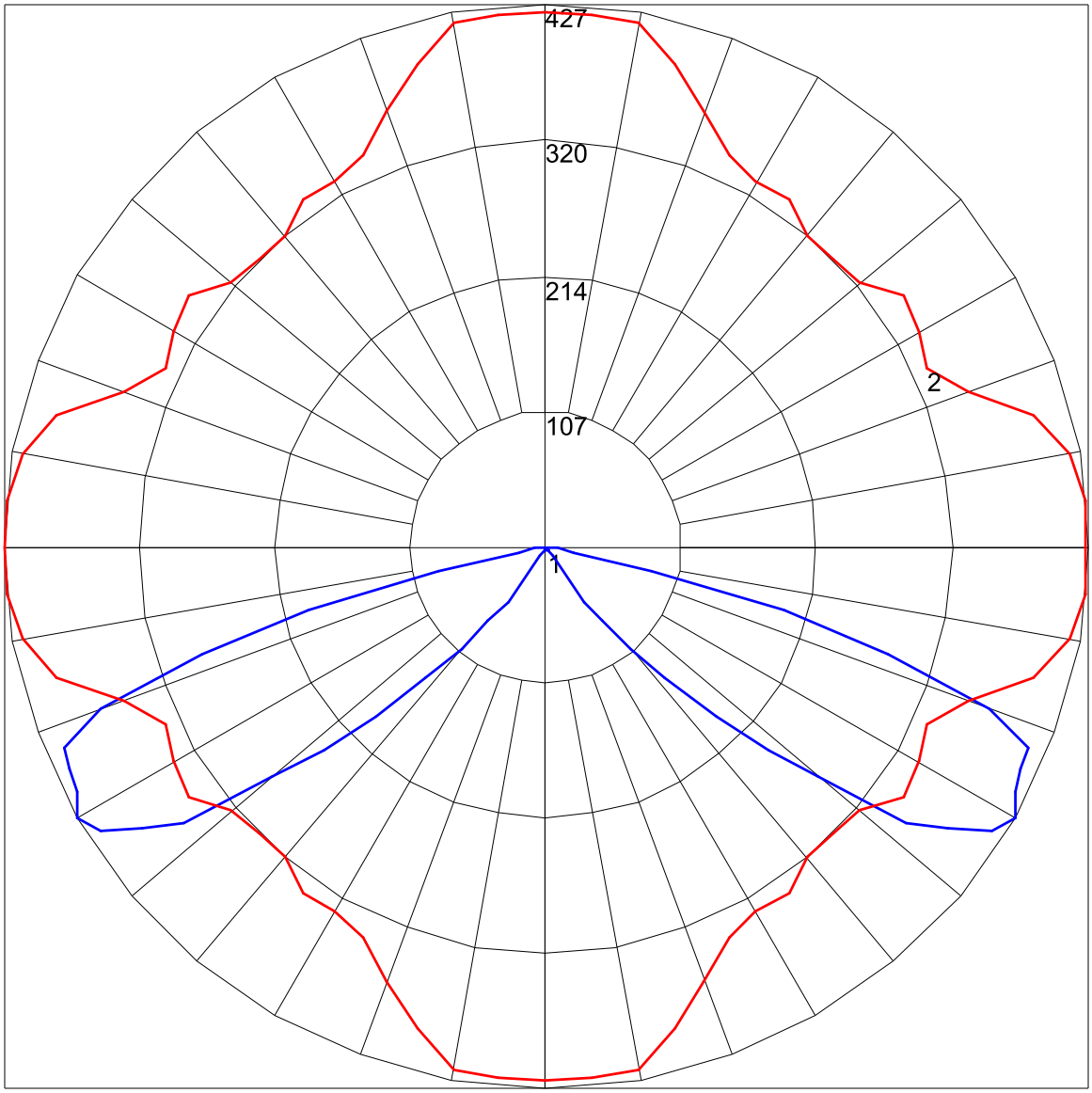
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : PA7R-NU5-12L-010-4K7.IES

POLAR GRAPH



Maximum Candela = 427 Located At Horizontal Angle = 5, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (5 - 185) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

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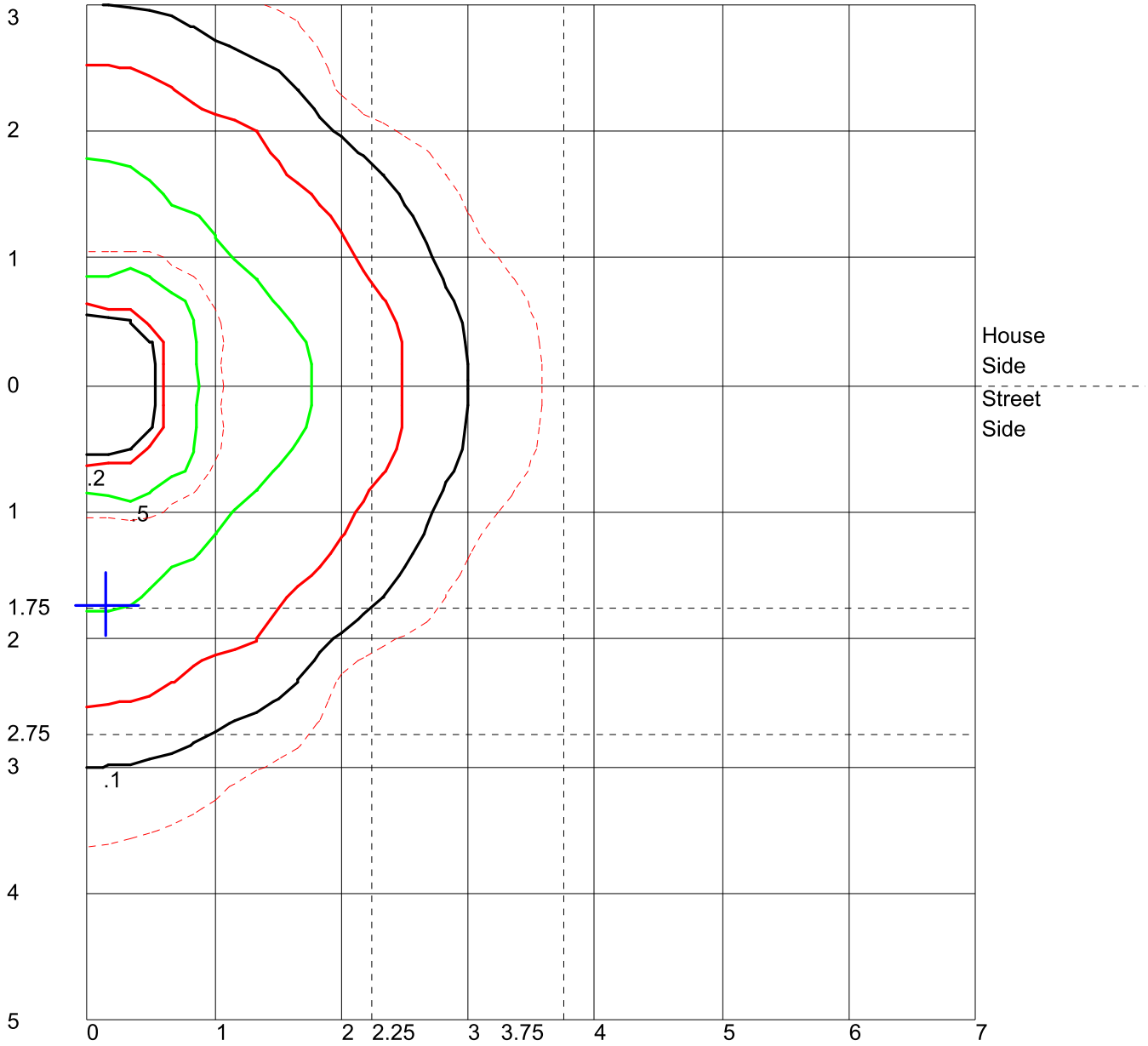
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : PA7R-NU5-12L-010-4K7.IES

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



Distance In Units Of Mounting Height
Values Based On 10 Foot Mounting Height
1/2 Maximum Candela Trace Shown As Dashed Curve
(+) = Maximum Candela Point

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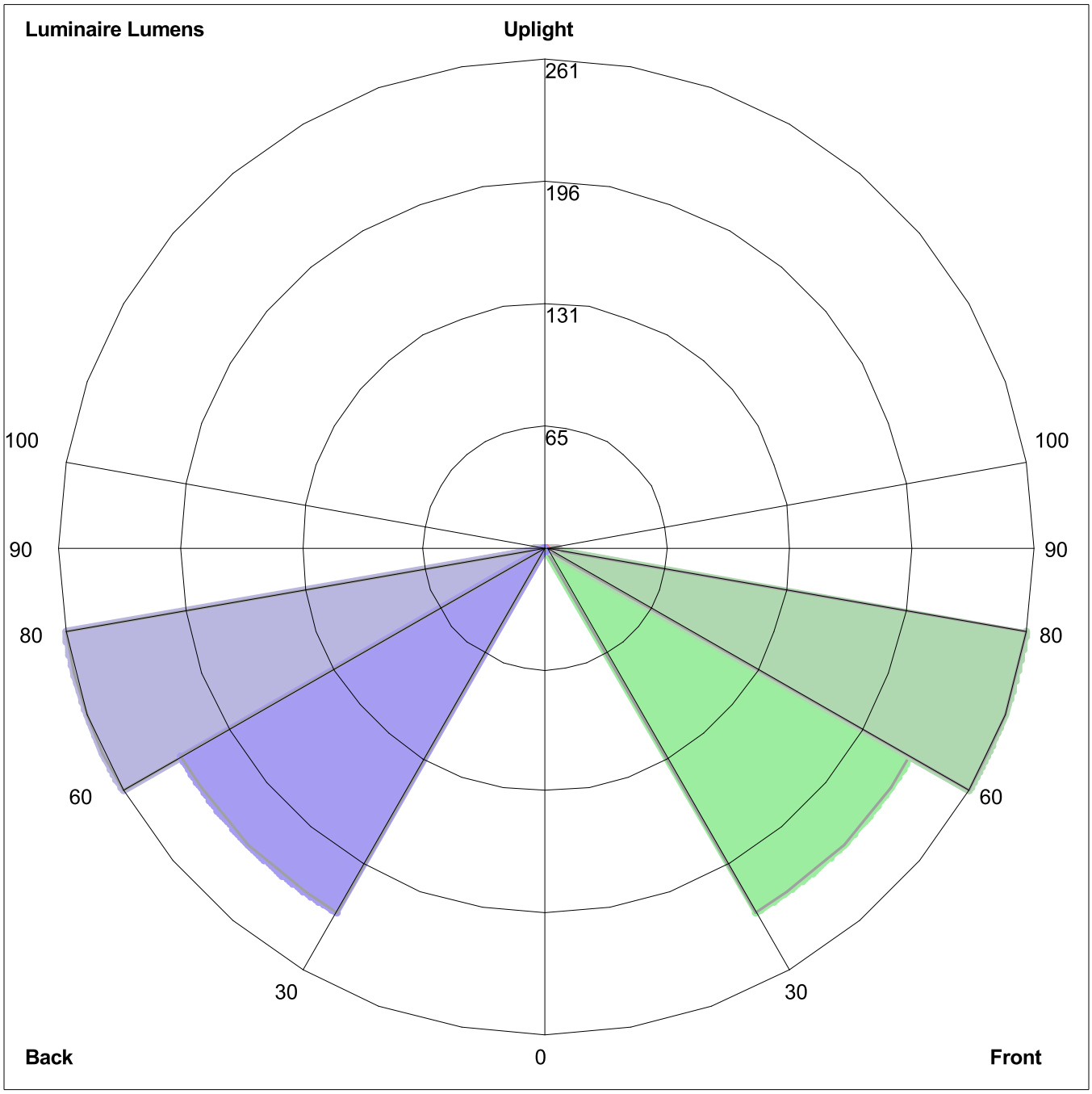
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : PA7R-NU5-12L-010-4K7.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1.4, Medium=225.2, High=261.5, Very High=5.8
Back: Low=1.4, Medium=225.2, High=261.5, Very High=5.8
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G0

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Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CATSKILL LED (INTEGRAL)

IP66 RATED

DATE: | PROJECT: | TYPE: TYPE ODC

CATALOG NUMBER LOGIC:

*Accommodates up to 2 lens/shielding media.

**120V only.

CATALOG NUMBER LOGIC		
Example: CK - LED - TR - x98 - SP - BZW - 9 - 11 - A - INC - 120		
MATERIAL		
Aluminum		
SERIES		
CK - Catskill		
SOURCE		
LED - Chip on Board (COB) Technology		
HOUSING		
TR - Integral Driver		
LED TYPE		
x98 - 13W/2700K/80CRI	x101 - 13W/2700K/90CRI	✓
x99 - 13W/3000K/80CRI	x102 - 13W/3000K/90CRI	✓
x103 - 13W/3500K/80CRI	x104 - 13W/3500K/90CRI	✓
x100 - 13W/4000K/80CRI	x121 - 13W/4000K/90CRI	✓
x122 - 21W/2700K/80CRI	x126 - 21W/2700K/90CRI	✓
x123 - 21W/3000K/80CRI	x127 - 21W/3000K/90CRI	✓
x124 - 21W/3500K/80CRI	x128 - 21W/3500K/90CRI	✓
x125 - 21W/4000K/80CRI	x129 - 21W/4000K/90CRI	✓
OPTICS		
SP - Spot (17°)	FL - Flood (45°)	WFL - Wide Flood (55°)
FINISH (See page 2 for full-color swatches)		
Standard Finishes (BZP, BZW, BLP, BLW, WHP, WHW, SAP, VER)		
Premium Finish (ABP, AMG, AQW, BCM, BGE, BPP, CAP, CMG, CRM, HUG, NBP, OCP, RMG, SDS, SMG, TXF, WCP, WIR) *		
Also available in RAL Finishes		
LENS TYPE*		
9 - Clear (Standard)		
12 - Soft Focus	13 - Rectilinear	
SHIELDING*		
11 - Honeycomb Baffle		
CAP STYLE		
A - 45°		
B - 90°		
C - Flush		
D - 45° Less Weephole (Downward Aiming Only)		
E - 90° Less Weephole (Downward Aiming Only)		
CONTROL		
NON - Non Dimming		
ELV - Dimming Driver (For use with Electronic Low Voltage Dimmer)**		
INC - Dimming Driver (For use with Incandescent Dimmer)**		
010 - 0-10V Dimming Driver (Dimming ≤3-100%)		
INPUT VOLTAGE		
120 - 120 VAC		
277 - 277 VAC		

✓ TITLE 24, JA8 COMPLIANT

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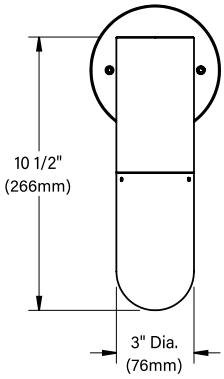
10/27/2023 SKU-1371
SUB-2822-00

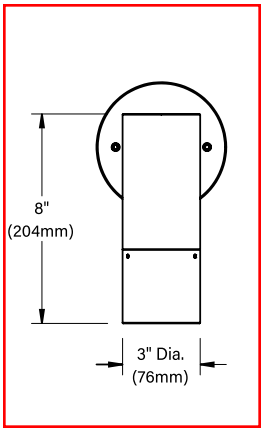
CATSKILL LED (INTEGRAL)

IP66 RATED

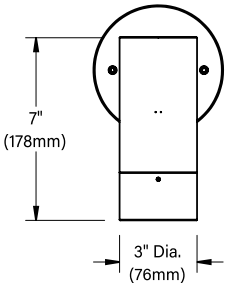
DATE:	PROJECT:	TYPE:



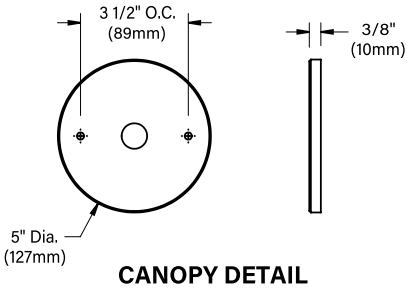
"A/D" CAP



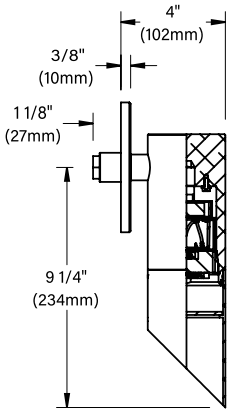
"B/E" CAP

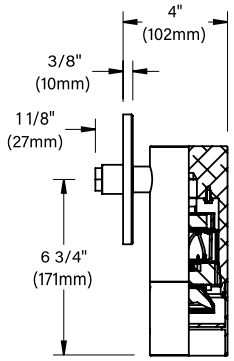


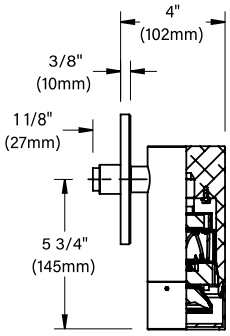
"C" CAP



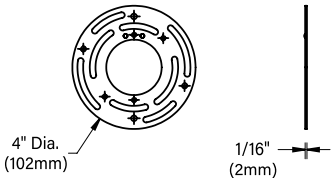
CANOPY DETAIL







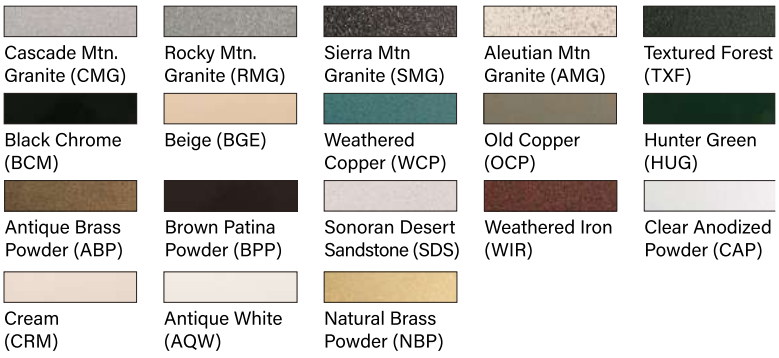
UNIVERSAL RING



STANDARD FINISHES

Click Here to view larger, full-color swatches of all available finishes on our website.

PREMIUM FINISHES



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10/27/2023 SKU-1371
SUB-2822-00

CATSKILL LED (INTEGRAL)

IP66 RATED

DATE:	PROJECT:	TYPE:

Accessories (Configure separately)

Drivers (Configure separately)

SPECIFICATIONS

ELECTRICAL	WATTAGE	13W or 21W LED
	LED	COB technology and modular design with electrical quick disconnects allow for easy field upgrade and maintenance. LM-80 certified. Title 24, JA8 compliant options available. Minimum 50,000 hour rated life at 70% of initial lumens (L70).
	COLOR MANAGEMENT	COB technology delivers natural white light. Exact color point conformity exceeds ANSI C78.377 standard. Module exceeds 80 CRI (RA>80, R9.16). Color point uniformity 2 SDCM color control for 2700K-4000K CCT.
	WIRING	INC/ELV Wiring: 3 Wire,18GA, Stranded, XLPE, 125°C, 300V, UL3265 rated wire 0-10 Wiring: 5 Wire, 16GA, Stranded, TPE, 105°C, 300V, SJTOW, Cable Master, SJTOW-165-BLK-GVCC
	DRIVER	Incandescent/ELV Control Option Driver: Dimming driver for use with standard incandescent or electronic low voltage dimmers (10-100% range), 120VAC only. 0-10 Control Option Driver: Dimming driver for use with standard 0-10V dimmers (≤3-100% dim. range), 120-277VAC. With [1] 440mA (13W) / 700mA (21W). 50/60Hz. >0.9 Power Factor, (INC/ELV)10.0A/(0-10) <250mA in-rush current , .20%THD (nominal at 120VAC full load). Output over-voltage, overcurrent, and short circuit protection with auto recovery. Class 2 power supply; FCC47CFR Part 15 Compliant Class B (120VAC)/Class A (277VAC).
PHYSICAL	MATERIALS	Furnished in copper-free aluminum (6061-T6).
	BODY	Unibody design with enclosed, water-proof wireway and integral heat sink is fully machined from solid billet. Anti-condensation and corrosion vent equalizes fixture pressure and eliminates potential for damage to internal components.
	CAP	Fully machined and accommodates two (2) lens or louver media.
	LENS	Shock-resistant, tempered, 1/8" thick soda lime glass lens is factory adhered to fixture cap and provides hermetically sealed optical compartment.
	INSTALLATION	5" dia., machined canopy with stainless steel universal mounting ring permits mounting to 4" octagonal junction box (by others).
	OPTICS	Interchangeable optics permit changes in the field.
	HARDWARE	Tamper-resistant, stainless steel hardware. 360HD hardware is additionally black oxide treated for corrosion resistance.
	FINISH	StarGuard, our 15-stage chromate-free process, cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating, and is RoHS compliant.
	WARRANTY	5-year limited warranty.
	CERTIFICATION & LISTING	UL tested to IESNA LM-79. UL Listed. Certified to CAN/CSA/ANSI Standards. RoHS compliant components. Suitable for indoor or outdoor use. IP66 Rated. Made in the USA with sustainable processes.

TITLE 24, JA8

c UL us LISTED

RoHS

MADE IN THE USA

B-K LIGHTING | **MADE IN THE USA** | **559.438.5800 | INFO@BKLIGHTING.COM | BKLIGHTING.COM**

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10/27/2023 SKU-1371
SUB-2822-00

LAMP & DRIVER DATA (page 1 of 2)

DATE:	PROJECT:	TYPE:

DRIVER ELECTRICAL DATA

Type	AC Input Range	Frequency Hz	Power Factor At Full Load (Efficiency)	THD	InRush Current	Operating Current	Operation Ambient Temperature	Dimmer Type	Dimmer Range
Integral	120VAC	50/60	> 0.9	20%	10A	440mA (13W)/700mA (21W)	-30° C ~ 70°C	TRIAC/ELV	1-100%
Integral	105-300VAC	50/60	> 0.9	20%	<250mA	440mA (13W)/700mA (21W)	-30° C ~ 90°C	0-10	≤3-100%

LM79 DATA					OPTICAL DATA			
BK No.	CCT (Typ.)	CRI (Typ.)	Input Watts (Typ.)	L70 Data	Angle	CBCP	Total Del. Lumens	Muliplier
x98	2700	80	13	50,000	17	6480	829	0.92
	2700	**80**	**13**	**50,000**	**45**	**1773**	**1041**	**0.92**
	2700	80	13	50,000	55	1478	1180	0.92
x99	3000	80	13	50,000	17	6796	869	0.96
	3000	**80**	**13**	**50,000**	**45**	**1860**	**1091**	**0.96**
	3000	80	13	50,000	55	1550	1237	0.96
x103	3500	80	13	50,000	17	6685	855	0.95
	3500	**80**	**13**	**50,000**	**45**	**1829**	**1074**	**0.95**
	3500	80	13	50,000	55	1525	1217	0.95
x100	4000	80	13	50,000	17	7059	903	1.00
	4000	**80**	**13**	**50,000**	**45**	**1931**	**1134**	**1.00**
	4000	80	13	50,000	55	1610	1285	1.00
x101	2700	90	13	50,000	17	4486	574	0.69
	2700	**90**	**13**	**50,000**	**45**	**1228**	**720**	**0.69**
	2700	90	13	50,000	53	1023	817	0.69
x102	3000	90	13	50,000	17	4936	631	0.73
	3000	**90**	**13**	**50,000**	**45**	**1350**	**793**	**0.73**
	3000	90	13	50,000	55	1126	899	0.73
x104	3500	90	13	50,000	17	4775	611	0.71
	3500	**90**	**13**	**50,000**	**45**	**1307**	**767**	**0.71**
	3500	90	13	50,000	55	1089	869	0.71
x121	4000	90	13	50,000	17	5324	681	0.75
	4000	**90**	**13**	**50,000**	**45**	**1457**	**855**	**0.75**
	4000	90	13	50,000	55	1214	969	0.75
x122	2700	80	21	50,000	17	9040	1208	0.87
	2700	**80**	**21**	**50,000**	**47**	**2437**	**1359**	**0.87**
	2700	80	21	50,000	55	1876	1416	0.87
x123	3000	80	21	50,000	17	10030	1341	0.96
	3000	**80**	**21**	**50,000**	**45**	**2704**	**1508**	**0.96**
	3000	80	21	50,000	55	2082	1571	0.96
x124	3500	80	21	50,000	17	8496	1136	0.81
	3500	**80**	**21**	**50,000**	**45**	**2290**	**1277**	**0.81**
	3500	80	21	50,000	55	1763	1331	0.81
x125	4000	80	21	50,000	17	10431	1394	1.00
	4000	**80**	**21**	**50,000**	**45**	**2812**	**1568**	**1.00**
	4000	80	21	50,000	55	2165	1634	1.00

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LAMP & DRIVER DATA (page 2 of 2)

DATE:	PROJECT:	TYPE:

LM79 DATA					OPTICAL DATA			
BK No.	**CCT (Typ.)**	**CRI (Typ.)**	**Input Watts (Typ.)**	**L70 Data**	**Angle**	**CBCP**	**Total Del. Lumens**	**Muliplier**
x126	2700	90	21	50,000	17	6120	818	0.68
	2700	**90**	**21**	**50,000**	**45**	**1650**	**920**	**0.68**
	2700	90	21	50,000	55	1270	959	0.68
x127	3000	90	21	50,000	17	7535	1007	0.75
	3000	**90**	**21**	**50,000**	**45**	**2031**	**1133**	**0.75**
	3000	90	21	50,000	55	1564	1180	0.75
x128	3500	90	21	50,000	17	5406	723	0.64
	3500	**90**	**21**	**50,000**	**45**	**1457**	**813**	**0.64**
	3500	90	21	50,000	55	1225	847	0.64
x129	4000	90	21	50,000	17	8148	1089	0.78
	4000	**90**	**21**	**50,000**	**45**	**2196**	**1225**	**0.78**
	4000	90	21	50,000	55	1691	1277	0.78

OPTICS

Optic	Angle
Spot w/ 13 Accy	16 x 55
Spot	17°
Flood	45°
Wide Flood	55°

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IES ROAD REPORT
PHOTOMETRIC FILENAME : DE-LED-TR-X100-FL-12439915-12439915.04.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 12439915.04
[TESTLAB] UL Verification Services Inc.
[ISSUEDATE] 9/13/2018
[MANUFAC] B-K Lighting Inc
[LUMCAT] DE-LED-TR-X100-FL-9-4000K
[LUMINAIRE] White cylindrical metal housing with plastic prismatic ref
[MORE] lector and clear glass lens
[LAMP] One (1) LED with optics below
[BALLAST] ERP EBR015U-0440-36
[OTHER] 24.5 C, 120.004 V, 0.107876 A, 12.7427 W, 0.984331 PF, 59.9982
[MORE] Hz
[OTHER] This test was performed using the calibrated photodetector met
[MORE] hod of absolute photometry.

CHARACTERISTICS

IES Classification	Type V
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1129
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	12.7427
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1931.3
Maximum Candela Angle	0H 0V
Maximum Candela (<90 Degrees Vertical)	1931.3
Maximum Candela Angle (<90 Degrees Vertical)	0H 0V
Maximum Candela At 90 Degrees Vertical	.1 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1.6 (0.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : DE-LED-TR-X100-FL-12439915-12439915.04.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	471.4	N.A.	41.8
FM - Front-Medium (30-60)	89.4	N.A.	7.9
FH - Front-High (60-80)	3.0	N.A.	0.3
FVH - Front-Very High (80-90)	0.6	N.A.	0.0
BL - Back-Low (0-30)	471.4	N.A.	41.8
BM - Back-Medium (30-60)	89.4	N.A.	7.9
BH - Back-High (60-80)	3.0	N.A.	0.3
BVH - Back-Very High (80-90)	0.6	N.A.	0.0
UL - Uplight-Low (90-100)	< 0.05	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	1128.8	N.A.	100.0
BUG Rating	B1-U1-G0		

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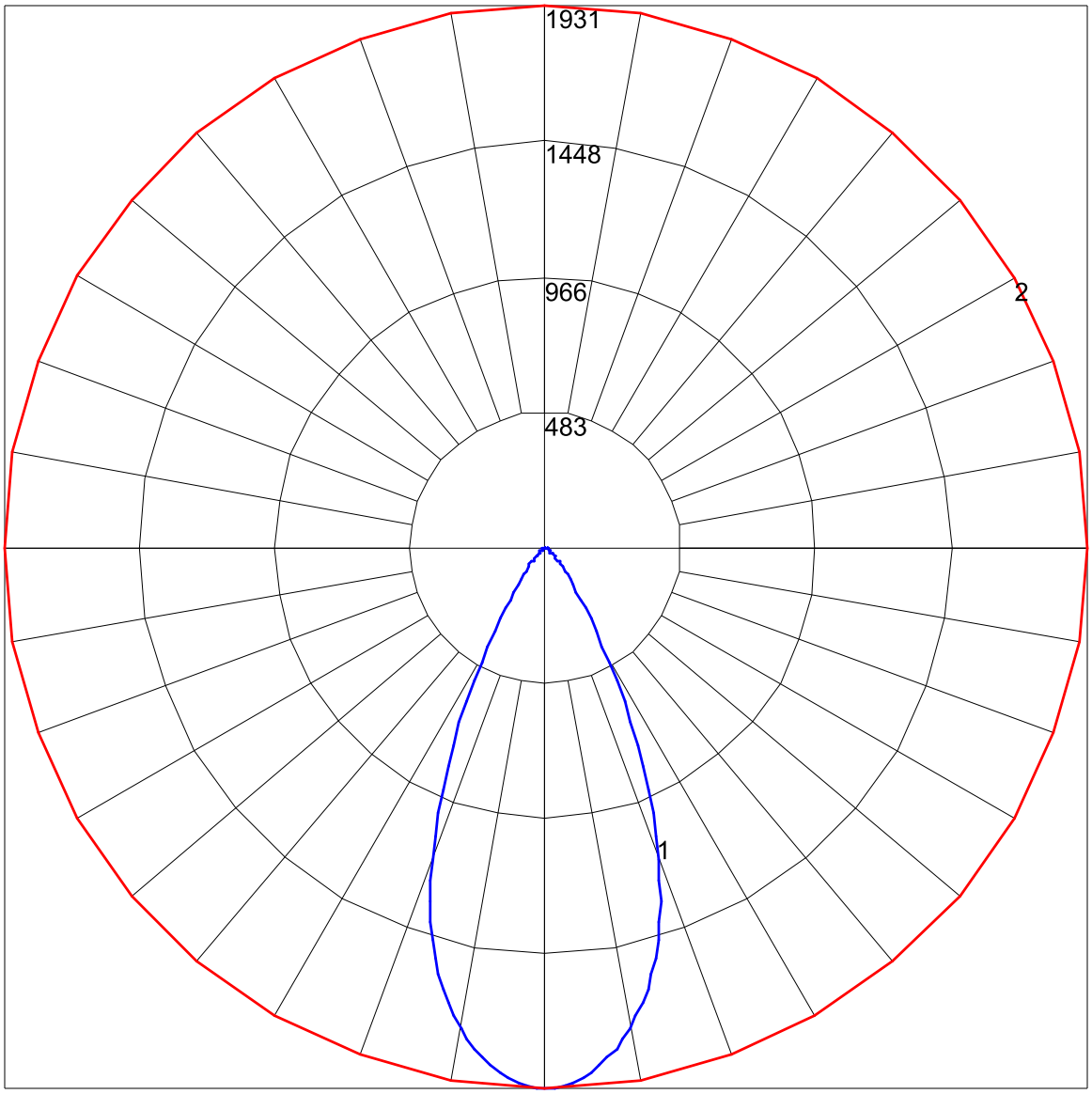
IES ROAD REPORT
PHOTOMETRIC FILENAME : DE-LED-TR-X100-FL-12439915-12439915.04.IES

POLAR GRAPH



Maximum Candela = 1931.3 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

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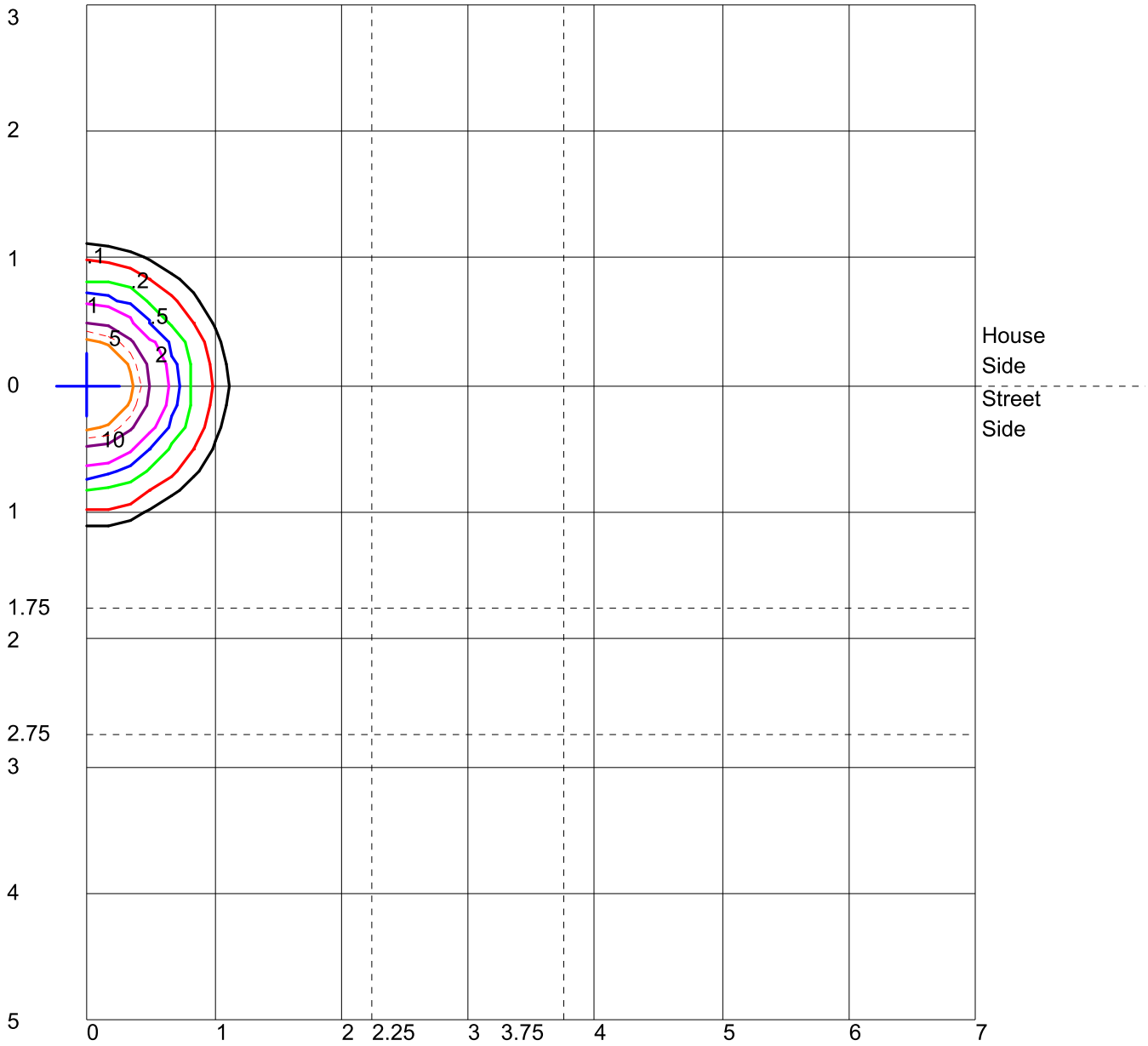
IES ROAD REPORT
PHOTOMETRIC FILENAME : DE-LED-TR-X100-FL-12439915-12439915.04.IES

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



Distance In Units Of Mounting Height
Values Based On 10 Foot Mounting Height
1/2 Maximum Candela Trace Shown As Dashed Curve
(+) = Maximum Candela Point

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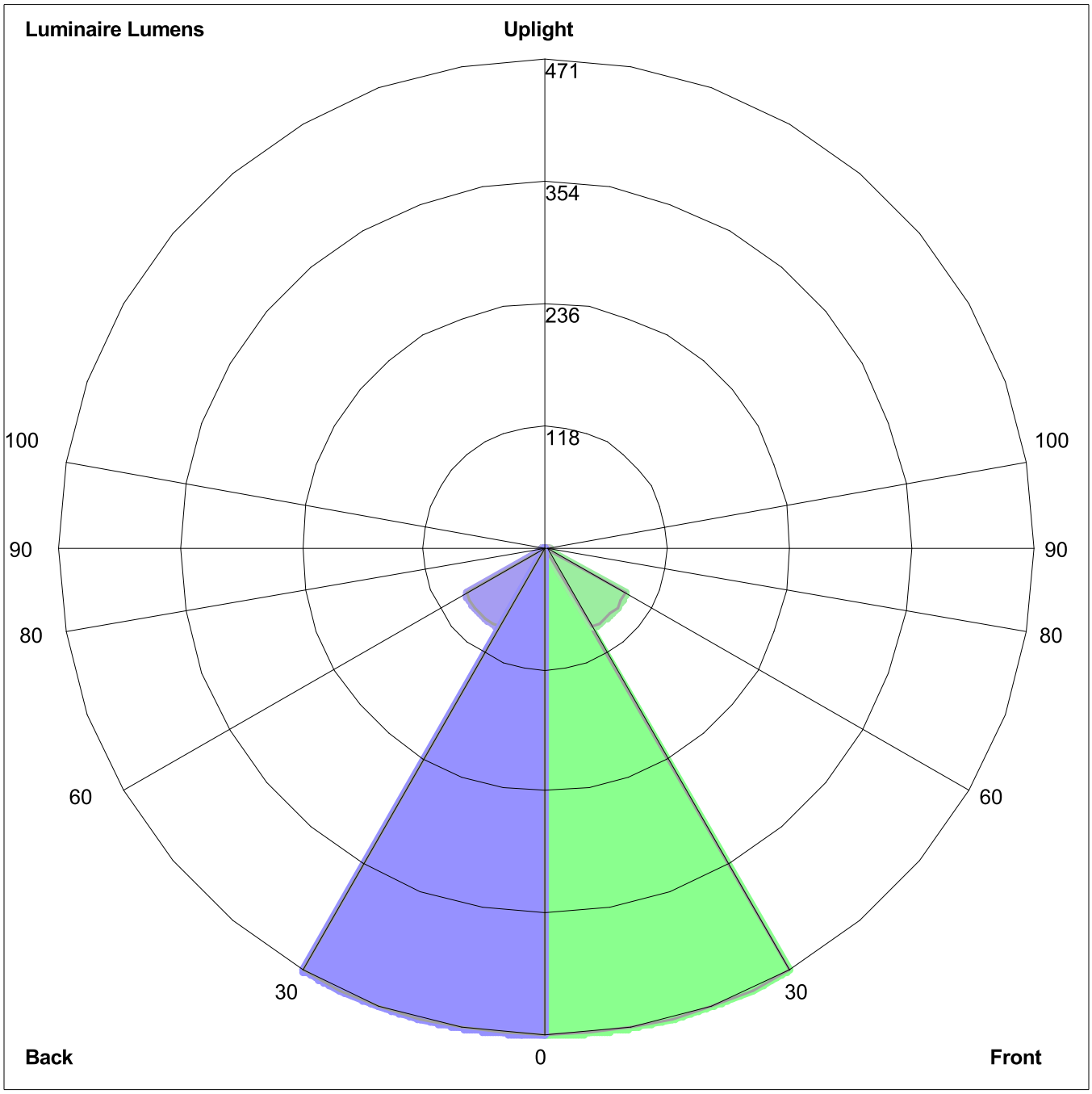
IES ROAD REPORT
PHOTOMETRIC FILENAME : DE-LED-TR-X100-FL-12439915-12439915.04.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=471.4, Medium=89.4, High=3.0, Very High=0.6
Back: Low=471.4, Medium=89.4, High=3.0, Very High=0.6
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U1-G0

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Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

2840 N Brookfield Rd, Suite 3
Brookfield, WI 53045

PH: 262.505.5124
FX: 262.753.6582

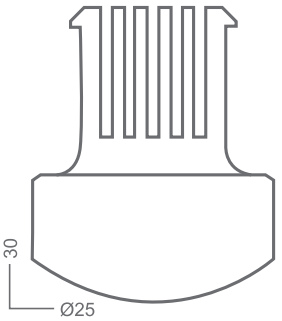
www.klikusa.com
sales@klikusa.com

Project Name:	Location:
Specifier:	Rep Agency:
Fixture Type:	Product Code: TYPE ORA

KLIK LEDpod™ 40 Patented

Description

Discrete, seamless point source LED fixture for use in all code-compliant handrail, especially curving ramps and helical stairs as well as long runs on bridges and pedestrian paths. Asymmetric optic allows mounting at rail nadir, eliminating uncomfortable glare issues.



Housing

Clear anodized aluminum body as standard. Color-match anodized or bronze body as options, consult factory.

Aluminum body has a fine 25-micron finish and is then hard-coat anodized, thus preventing galvanic corrosion. Silicone gasket seals the installation from water ingress and provides added means of electrical isolation to minimize potential for galvanic reaction.

Mounting

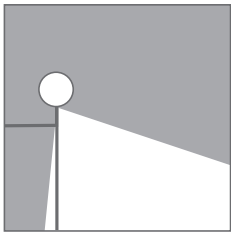
Patented attachment method offers unparalleled security and ease of mounting. Requires only a simple drilled hole in railing material, eliminates threading, gluing or exposed fasteners common among other handrail fixtures. All conductors remain internal to railing to provide secure and safe wiring. IK10 Impact rating ensures vandal resistance. Tamperproof anti-theft option available for extreme environments; consult factory.

- Tube Size: Ø 1.5" - 1.75", Max. wall .2" *Other sizes available upon request*
- Cut Out: 25mm
- Weight: 0.16 LBS

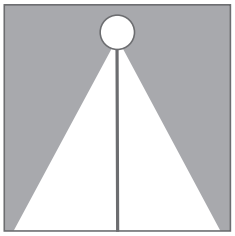
Electrical/LED Driver

- Input Voltage: 24 VDC
- Operating Temp: -40 to 120° F
- Efficiency: 88 lm/W
- Driver: Must use class 2 driver
  - Primary Driver: 110 - 277 VAC UL Listed Constant Voltage
  - Secondary Driver: 350 - 700mA Constant Current (provided with fixture)
- Control: DALI, 0-10V, DMX
  - DMX control for dimming only, not for individually addressed LEDpod
- Enclosure: Minimum NEMA2 for indoor, NEMA 3R for outdoor
- Wire connectors provided; factory pre-wire available, consult factory

*Please note, all KLIK fixtures are now dimmable as standard
*Must purchase Driver and Enclosure through KLIK to hold warranty



Asymmetric



Symmetric

Listings

- ETL listed, UL 1598/CSA 22.2; CE
- cETL
- IP65 rated *All IP rated luminaires tested to AS60529-2004 Degrees of protection provided by enclosures (IP Code)*
- IK10 Impact Resistance
- Wet location rated
- International Dark Sky Association Certified *(Color temperature must be Amber or less than 3000K)*

Product Codes

Follow the steps to specify your fixture. Enter Product Code in field at top of page. Example: **LP4030KA40**

Fixture Type	Rail Size[1,2]	Color[3]	Distribution	Rail Wall Thickness[4]	Lens Option	Custom Bezel[5]
LP LEDpod	**40** 1.50" Tube -or- 1.66" Pipe	**27K** 2700K **30K** 3000K **35K** 3500K **40K** 4000K **AMB** Amber	**A** Asymmetric **S** Symmetric	**1512** 1.5" x 11ga Tube (.12 wall) **1513** 1.5" x 1/8 Wall Tube **05** Sch 5 Pipe **10** Sch 10 Pipe **40** Sch 40 Pipe **80** Sch 80 Pipe **CUST** Non-stock	Clear lens standard Add **FRS** for frosted diffused lens Add **OTK** for Optek-film diffused lens	**ANO** Rose Gold, Antique Brass, Dark Antique Bronze, Black Anodized

1. Additional sizes are available as special order, contact factory for rail dimensions other than those shown on this sheet.
2. Bronze material requires a special clip, contact factory for more information.
3. Also available in blue (BLU), green (GRN), red (RED), and custom color temperature (as special order).
4. Wall thickness of 0.120" is common to steel & stainless; wall of 0.125" common to aluminum
5. *Additional charges and lead time apply for this feature.*
6. Tamper proof option offers additional protection in extreme environments. *Additional charges and lead time apply for this feature.* To specify; add "TP" to product code.
7. **To Specify 1.5 Watt; add "0350" to product code; to Specify 2.5 Watt; add "0700" to product code. EX: LP4030KA40.0700**

2840 N Brookfield Rd, Suite 3
Brookfield, WI 53045

PH: 262.505.5124
FX: 262.753.6582

www.klikusa.com
sales@klikusa.com

Project Name:	Location:
Specifier:	Rep Agency:
Fixture Type:	Product Code:

LED Performance

LED: Cree XT-E
CCT: 2700, 3000, 4000 *(others available)*
CRI: 80-85
Life: 80% at 50k hrs and 85° C
Binning: 3 MacAdam Steps
Warranty: 5 Year Warranty

Lumens/Fixture or Pod

STANDARD 2W/POD Transparent		SPECIAL ORDER 1.5W/POD Transparent*		2.5W/POD Transparent*	
3000K	145	3000K	107	3000K	181
4000K	154	4000K	114	4000K	193
5000K	176	5000K	130	5000K	220

**Contact factory for 1.5W and 2.5W*

Optics				Reflector	
Beam Angle				Symmetrical	Asymmetrical
LOR defined by optics				76	74
lm	W	mA	V	Lumens output @ 4000K	
120	1.4	350	3	92	89
162	1.9	500	3	124	120
193	2.5	700	3	147	143

Remote Mounting Distance Chart

24 VDC 100W Driver	*Approximate Distance From Driver to First LED at 32 Fixtures*			
Wire Size	10 AWG	12 AWG	14 AWG	16 AWG
Distance	525’	328’	213’	131’

Calculations based on 2’ centers between pods.
Increased spacing reduces number of pods per circuit.

Primary Driver

Primary Driver	*Secondary LED Driver*	*Spacing*	*Maximum KLIK LEDpods™**
110 - 277 Primary Voltage Remotely Mounted Dimming Control 10” x 1.5” x 2”	700mA	24”	30
	500mA	24”	37
	350mA	24”	50

**Based on 16 AWG between LEDpods*

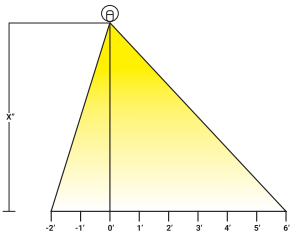
Required Accessories

LP096WPRITRNDIM Class 2 IP67 driver, 110-277VAC to 24VDC constant voltage, 0-10 Dim
LP100WPRITRNDIM Class 2 Driver, Dimming, Input voltage = 120-277 VAC, Output voltage = 24 VDC, 5 year warranty

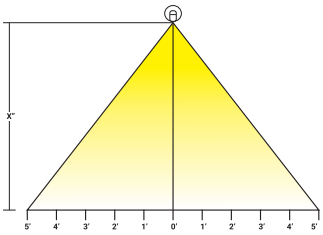
LPNEMA2ENCL NEMA2 INDOOR enclosure for LP100WPRITRNDIM, 12” x 3.3” x 2”
LPNEMA3RENCLJR NEMA 3R Drip Proof Enclosure, 4 x 4 x 12 (IP32 Equivalent)
LPNEMA4ENCLJR NEMA4 Watertight Enclosure, 6 x 4 x 12 (IP66 Equivalent); NEMA4X
LPNEMA6PENCL Available NEMA 6P Submersible Enclosure 15” x 8” x 6” (IP67 Equivalent)

Additional driver & enclosure con igurations available. Please note the KLIK UL Listing requires purchase of a remote driver and enclosure.

KLIK LEDpod™ Footcandle Chart (Represents output of ONE LEDpod)



Asymmetric



Symmetric

X = Rail Height (34” Tall Handrail or 42” Tall Guardrail

Optic Height: 34” - 2” (Handrail Diameter) = 32” (2.66’)
42” - 2” (Handrail Diameter) = 40” (3.33’)

			2’	1’	0	1’	2’	3’	4’	5’	6’	7’
1.5 Watt	KLIK LEDpod™ 50 350mA Asymmetric	34” Tall Handrail	0.39	0.97	4.22	5.22	3.68	2.64	1.25	0.56	0.23	0.07
		42” Tall Handrail	0.36	0.86	2.69	3.36	2.78	2.06	1.47	0.80	0.42	0.22
	KLIK LEDpod™ 50 350mA Symmetric	34” Tall Handrail	2.79	5.32	6.18	5.32	2.79	0.86	0.15	0.05	0.02	0.01
		42” Tall Handrail	2.19	3.70	3.95	3.70	2.19	1.34	0.37	0.09	0.04	0.02
2 Watt	KLIK LEDpod™ 50 500mA Asymmetric	34” Tall Handrail	0.53	1.31	5.70	7.06	4.97	3.56	1.68	0.76	0.31	0.09
		42” Tall Handrail	0.48	1.17	3.64	4.54	3.75	2.79	1.99	1.08	0.57	0.29
	KLIK LEDpod™ 50 500mA Symmetric	34” Tall Handrail	3.77	7.19	8.35	7.19	3.77	1.16	0.20	0.06	0.02	0.01
		42” Tall Handrail	2.96	5.00	5.33	5.00	2.96	1.81	0.49	0.13	0.05	0.02
2.5 Watt	KLIK LEDpod™ 50 700mA Asymmetric	34” Tall Handrail	0.66	1.64	7.13	8.83	6.21	4.45	2.10	0.95	0.39	0.12
		42” Tall Handrail	0.60	1.47	4.55	5.69	4.69	3.45	2.48	1.50	0.71	0.36
	KLIK LEDpod™ 50 700mA Symmetric	34” Tall Handrail	4.71	8.99	10.4	8.99	4.71	1.45	0.25	0.13	0.06	0.03
		42” Tall Handrail	3.70	6.25	6.66	6.25	3.70	2.26	0.61	0.16	0.06	0.02

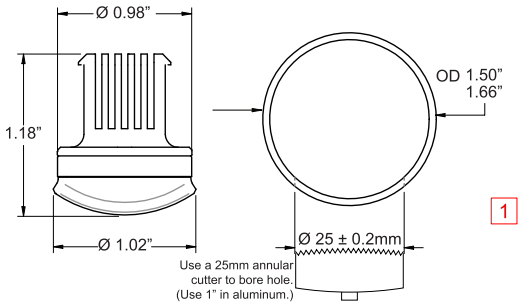
2840 N Brookfield Rd, Suite 3
Brookfield, WI 53045

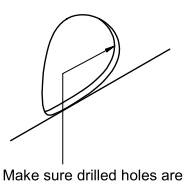
PH: 262.505.5124
FX: 262.753.6582

www.klikusa.com
sales@klikusa.com

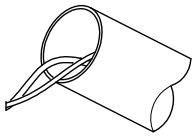
Project Name:	Location:
Specifier:	Rep Agency:
Fixture Type:	Product Code:

Installation Instructions *Additional instructions may apply, consult factory.*

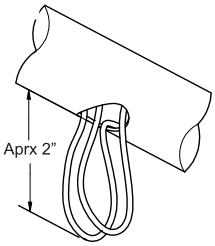




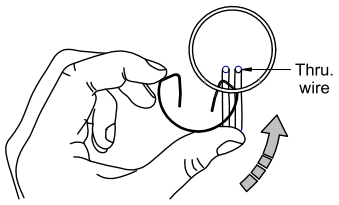
1 Make sure drilled holes are deburred and excess swarf is removed from railing.



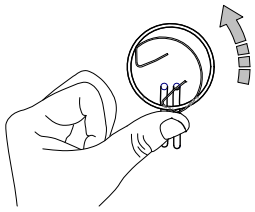
2 Feed through appropriate wires (14ga - 18ga).



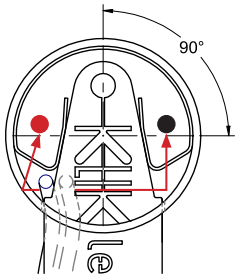
3 Pull a loop of wire through hole.



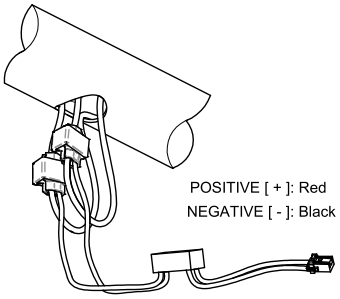
4 Rotate retaining clips in as shown. Avoid tangling or severing through wire.



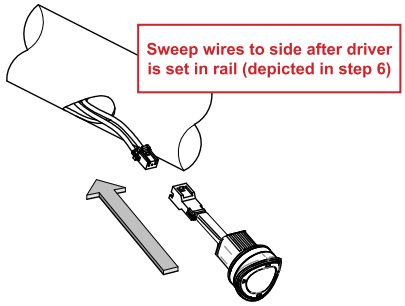
5 Apply pressure as shown to deform clip into place in a circular motion. Avoid damaging the surface of tube and tangling or severing through wire.



6 Fit clip into place until the clamping ends are equally centered over the hole. Use the tool to center the clip until equal pressure can be felt and inspect by eye.

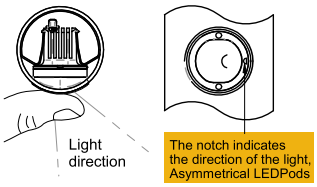


7 Install Scotchlok connectors to the red and black wires. Connect the corresponding color wires of the driver to the Scotchloks and assure the clip is secured.



8 CAREFULLY feed the Scotchloks to the left of the clip and the driver to the right with the driver connector hanging out. Ensure wires are clear from where the LEDPOD is to fit.

Proceed to connect the LEDPOD.



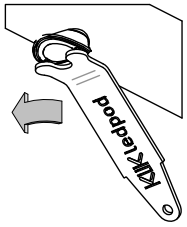
9 Push LEDPOD in until it snaps into place and the outer surface is flush with the outer surface of the tube.

Prod the rim of the clear silicone IP Seal to provide a tighter fit.

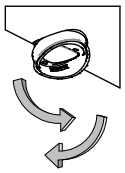
LEDPOD Removal Steps

1 Insert removal tool into the 2mm holes in the LEDPOD.

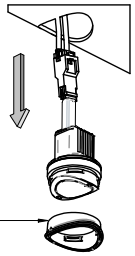
With firm pressure, rotate the LEDPod 90°.



2 Carefully peel back the IP silicone seal one side at a time.



3 Carefully remove the LEDPOD from the clip, ensuring not to damage or disconnect wires in the process.



Be sure to re-attach the silicone seal ready for reinsertion.

32863-C.4

2840 N Brookfield Rd, Suite 3
Brookfield, WI 53045

PH: 262.505.5124
FX: 262.753.6582

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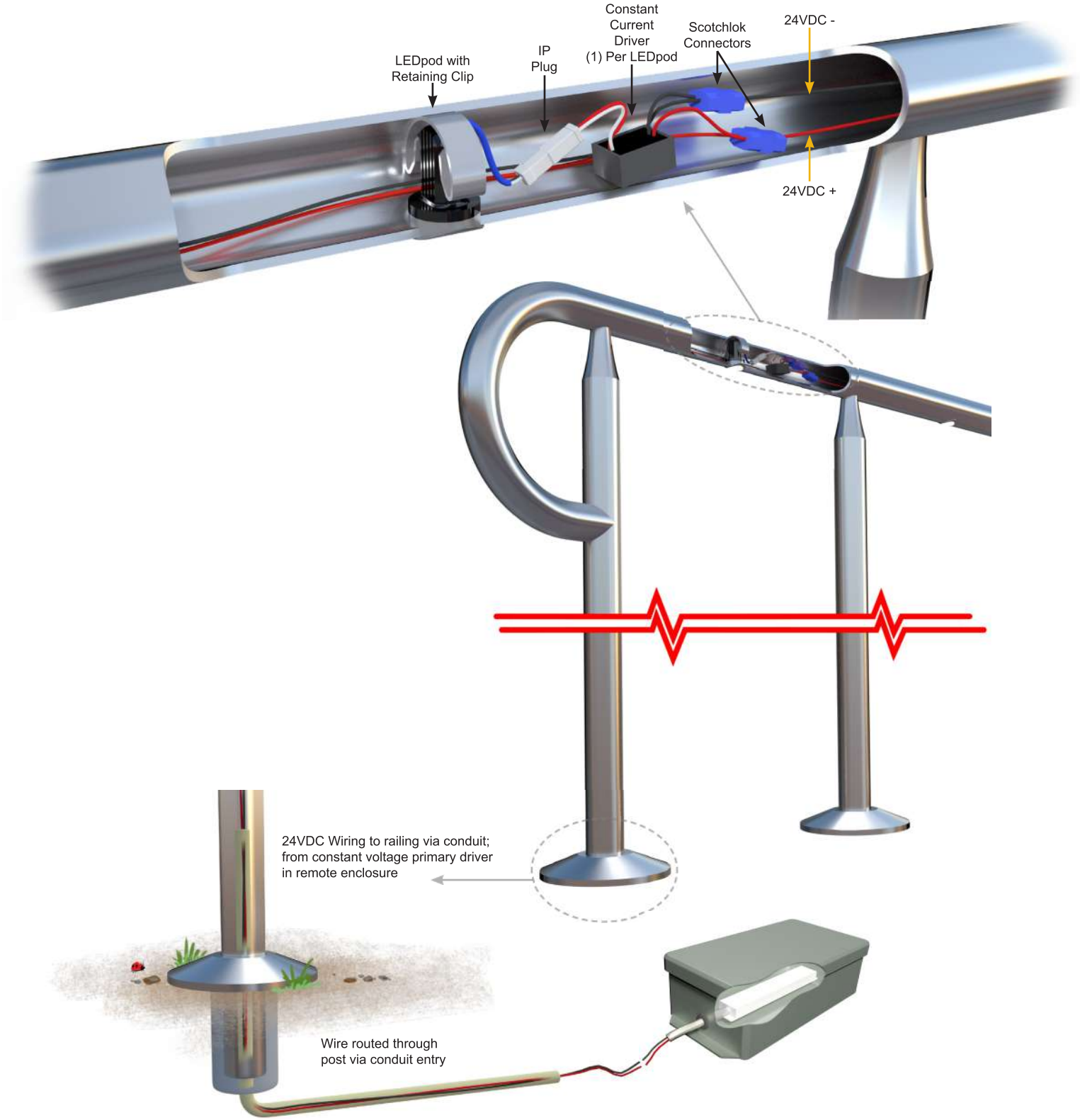
sales@klikusa.com

Project Name:	Location:
Specifier:	Rep Agency:
Fixture Type:	Product Code:

Wiring Diagram - Post Mounted



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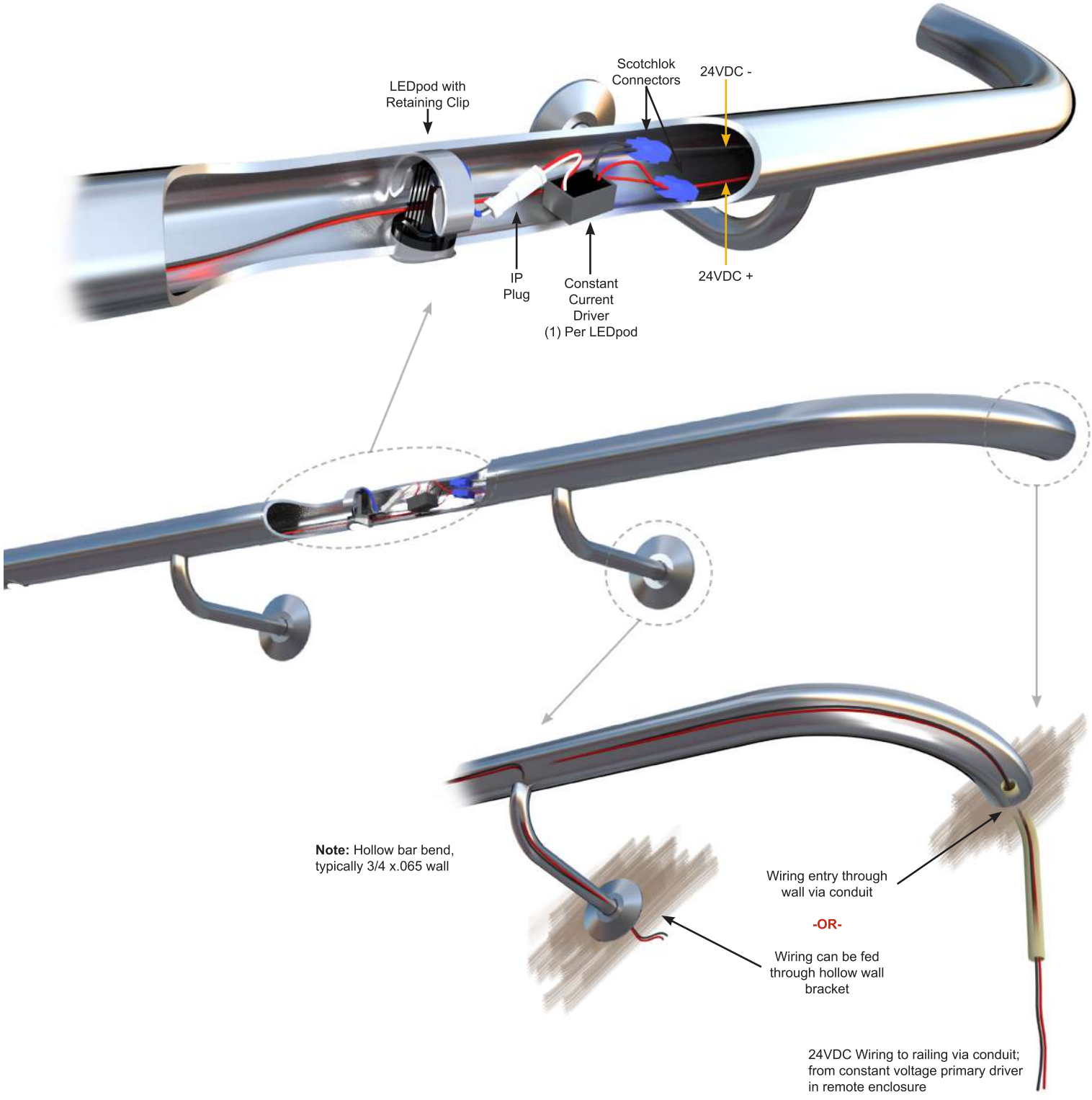
Specifier:	Rep Agency:
Fixture Type:	Product Code:

Wiring Diagram - Wall Mounted



IES ROAD REPORT
PHOTOMETRIC FILENAME : LPOD40-DIR-PCLENS-ASYMREFW-LPOD-500MA-4000K-0.025M-451795-A.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GO-00102
[TESTLAB] KLIKTEK Laboratory
[TESTDATE] 2019-11-26
[ISSUEDATE] 2019-11-26
[MANUFAC] KLIKSYSTEMS
[LUMCAT] LPOD40
[LUMINAIRE] LPOD40-Dir-PCLens-AsymRefW-LPOD-500mA-4000K-0.025m-451795-A
[LAMPCAT] LED Cree XP-L
[LAMP] LPOD-500mA-4000K
[BALLAST] 500mA Constant Current
[BALLASTCAT] Constant Current
[DISTRIBUTION] Asymmetrical
[MORE] Unspecified
[OTHER] Unspecified
[_FILE NO] 451795
[_revision] A
[_direction] Direct
[_direct_diffuser] Polycarbonate Lens
[_indirect_diffuser] N/A
[_reflector] White Asym Reflector
[_tested system] LEDpod 40
[_photometric rotated from original] 0
[_LOR_Up] 0
[_LOR_Down] 68
[_LOR_Total] 68
[_SYSTEM] LEDpod 40
[_luminaire_width_(m)] 0.025
[_luminaire_height_(m)] 0.029
[_diffuser_width_(m)] 0.02
[_luminaire_weight_(kg)] 0.074
[_SEARCH_APPLICATION] OUTDOOR, ARCHITECTURAL, COMMERCIAL, AREA, ATRIUM, CANOPY, FACADE, GOVERNME
[_SEARCH_MOUNTING] HANDRAIL, TUBE, PIPE, STAIR, PLATFORM, STRUCTURE
[_SEARCH_SOURCETYPE] LEDPOD
[_SEARCH_CRI] 80
[_TOLERANCE] LED Lumens and System Watts can vary by plus or minus 10 percent due to Industry standard LED binning vari

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : LPOD40-DIR-PCLENS-ASYMREFW-LPOD-500MA-4000K-0.025M-451795-A.IES

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Very Short
Lumens Per Lamp	234 (1 lamp)
Total Lamp Lumens	234
Luminaire Lumens	158
Downward Total Efficiency	68 %
Total Luminaire Efficiency	68 %
Luminaire Efficacy Rating (LER)	79
Total Luminaire Watts	2
Ballast Factor	1.00
Maximum Candela	120.095
Maximum Candela Angle	10H 45V
Maximum Candela (<90 Degrees Vertical)	120.095
Maximum Candela Angle (<90 Degrees Vertical)	10H 45V
Maximum Candela At 90 Degrees Vertical	.025 (0.0% Lamp Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	.879 (0.4% Lamp Lumens)
Cutoff Classification (deprecated)	Cutoff

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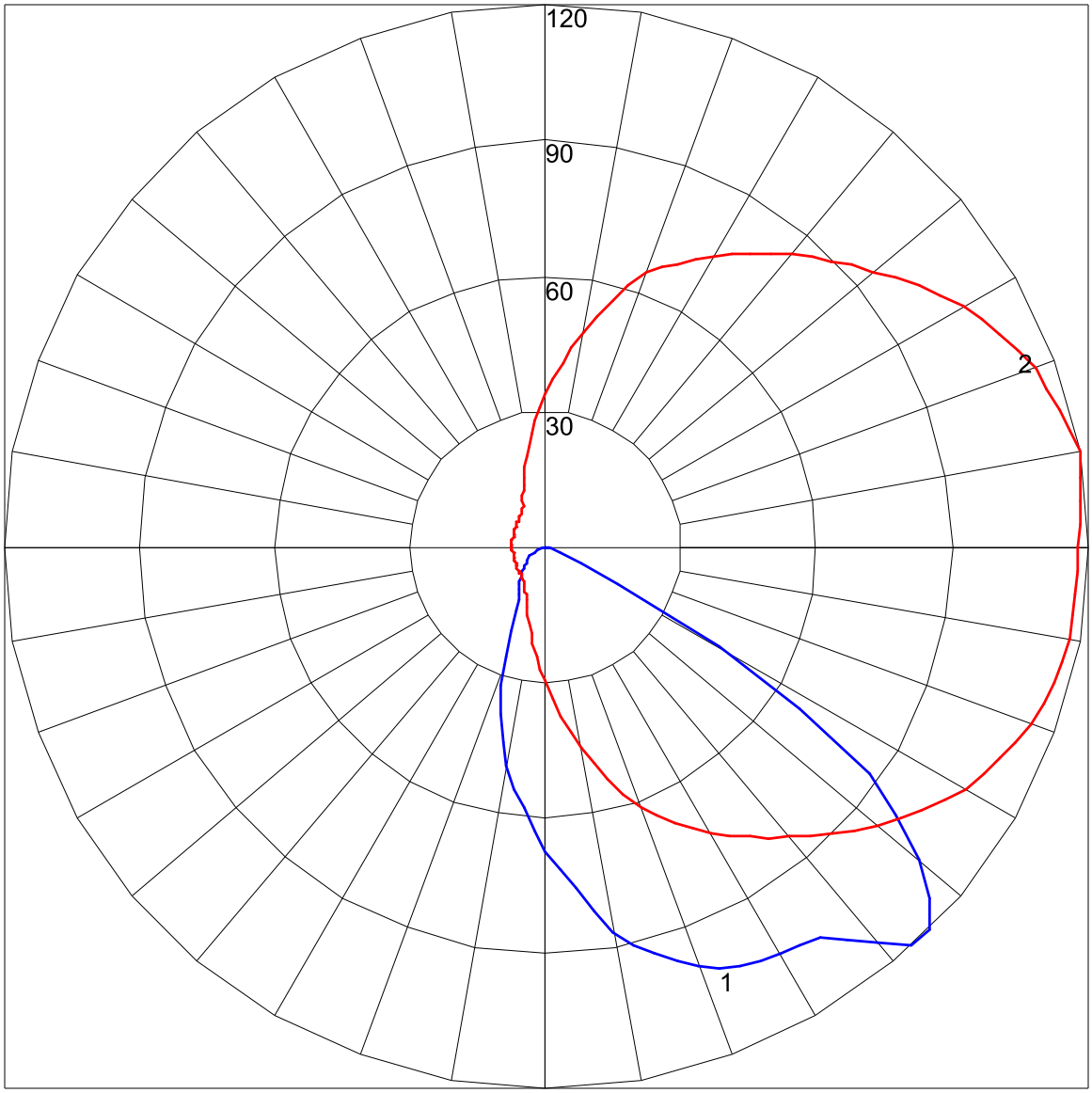
IES ROAD REPORT
PHOTOMETRIC FILENAME : LPOD40-DIR-PCLENS-ASYMREFW-LPOD-500MA-4000K-0.025M-451795-A.IES

POLAR GRAPH



Maximum Candela = 120.095 Located At Horizontal Angle = 10, Vertical Angle = 45
1 - Vertical Plane Through Horizontal Angles (10 - 190) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (45) (Through Max. Cd.)

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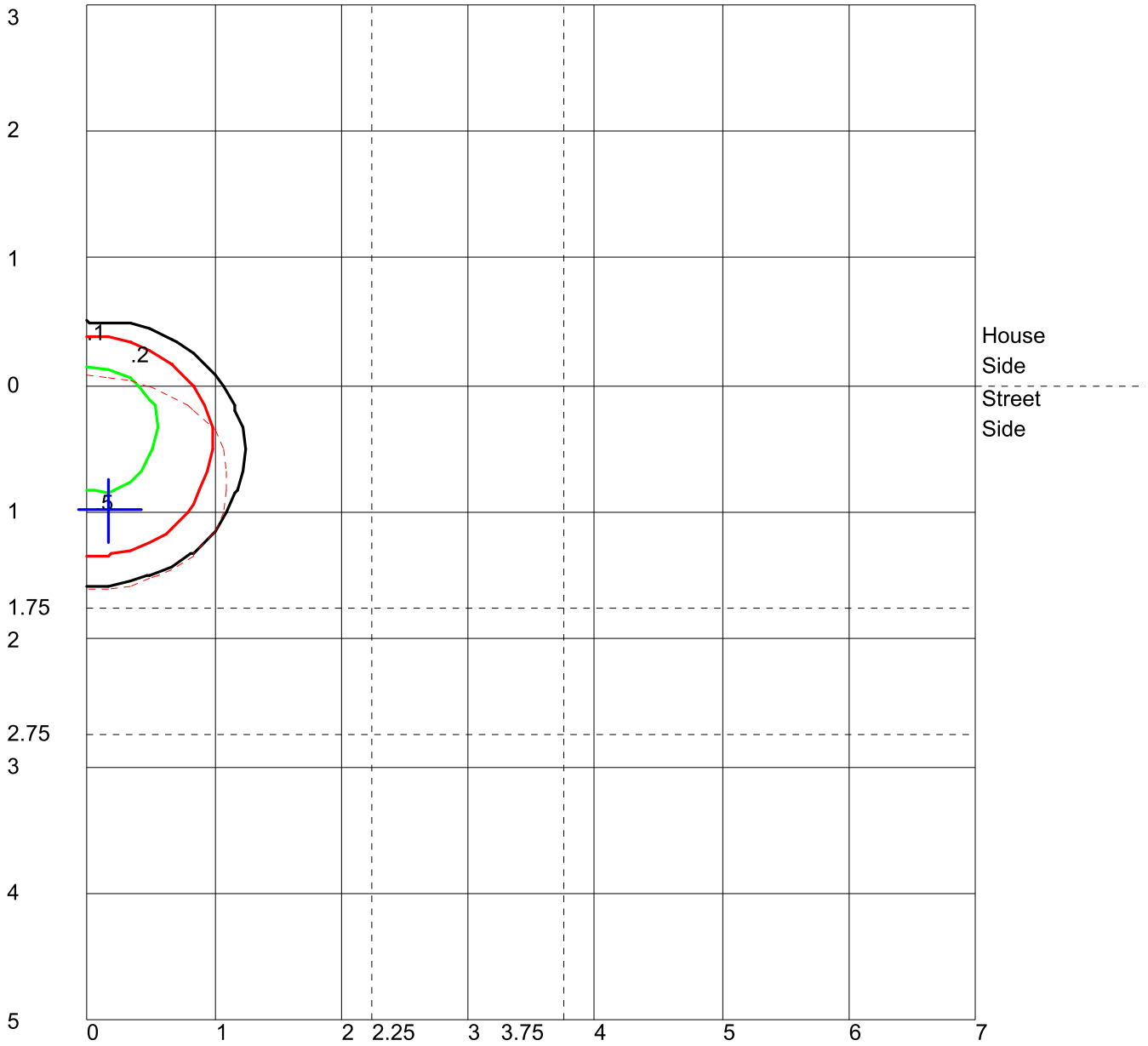
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : LPOD40-DIR-PCLENS-ASYMREFW-LPOD-500MA-4000K-0.025M-451795-A.IES

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



Distance In Units Of Mounting Height
Values Based On 10 Foot Mounting Height
1/2 Maximum Candela Trace Shown As Dashed Curve
(+) = Maximum Candela Point

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Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

WDGE2 LED

Architectural Wall Sconce
Visual Comfort Optic

Buy American

Catalog Number

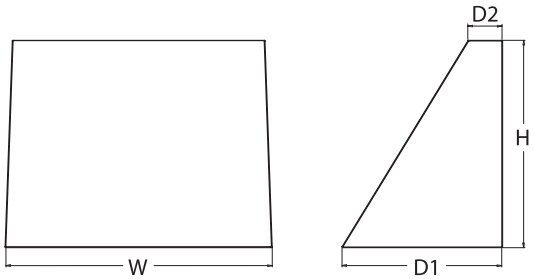
Notes

Type TYPE OWA

Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

Depth (D1): 7"
Depth (D2): 1.5"
Height: 9"
Width: 11.5"
Weight: (without options) 13.5 lbs



Introduction

The WDGE LED family is designed to meet specifier's every wall-mounted lighting need in a widely accepted shape that blends with any architecture. The clean rectilinear design comes in four sizes with lumen packages ranging from 1,200 to 25,000 lumens, providing a true site-wide solution. Embedded with nLight® AIR wireless controls, the WDGE family provides additional energy savings and code compliance.

WDGE2 delivers up to 6,000 lumens with a soft, non-pixelated light source, creating a visually comfortable environment. When combined with multiple integrated emergency battery backup options, including an 18W cold temperature option, the WDGE2 becomes the ideal wall-mounted lighting solution for pedestrian scale applications in any environment.

WDGE LED Family Overview

Luminaire	Optics	Standard EM, 0°C	Cold EM, -20°C	Sensor	Approximate Lumens (4000K, 80CRI)						
					P0	P1	P2	P3	P4	P5	P6
WDGE1 LED	Visual Comfort	4W		--	750	1,200	2,000	--	--	--	--
WDGE2 LED	Visual Comfort	10W	18W	Standalone / nLight	--	1,200	2,000	3,000	4,500	6,000	--
WDGE2 LED	Precision Refractive	10W	18W	Standalone / nLight	700	1,200	2,000	3,200	4,200	--	--
WDGE3 LED	Precision Refractive	15W	18W	Standalone / nLight	--	7,500	8,500	10,000	12,000	--	--
WDGE4 LED	Precision Refractive			Standalone / nLight	--	12,000	16,000	18,000	20,000	22,000	25,000

Ordering Information

EXAMPLE: WDGE2 LED P3 40K 80CRI VF MVOLT SRM DDBXD

Series	Package	Color Temperature	CRI	Distribution	Voltage	Mounting
WDGE2 LED	P1[1] P1SW P2[1] P2SW P3[1] P3SW P4[1] P5[1] Door with small window (SW) is required to accommodate sensors. See page 2 for more details.	27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K[2] 5000K	80CRI 90CRI	VF Visual comfort forward throw VW Visual comfort wide	MVOLT 347[3] 480[3]	**Shipped included** SRM Surface mounting bracket ICW Indirect Canopy/Ceiling Washer bracket (dry/damp locations only)[7] **Shipped separately** AWS 3/8inch Architectural wall spacer PBBW Surface-mounted back box (top, left, right conduit entry). Use when there is no junction box available.

Options

- E4WH Emergency battery backup, Certified in CA Title 20 MAEDBS (4W, 0°C min)
- E10WH Emergency battery backup, Certified in CA Title 20 MAEDBS (10W, 5°C min)
- E20WC Emergency battery backup, Certified in CA Title 20 MAEDBS (18W, -20°C min)
- PE[4] Photocell, Button Type
- DS[5] Dual switching (comes with 2 drivers and 2 light engines; see page 3 for details)
- DMG[6] 0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately)
- BCE Bottom conduit entry for back box (PBBW). Total of 4 entry points.
- BAA Buy America(n) Act Compliant

Standalone Sensors/Controls (only available with P1SW, P2SW & P3SW)

- PIR Bi-level (100/35%) motion sensor for 8-15' mounting heights. Intended for use on switched circuits with external dusk to dawn switching.
- PIRH Bi-level (100/35%) motion sensor for 15-30' mounting heights. Intended for use on switched circuits with external dusk to dawn switching
- PIR1FC3V Bi-level (100/35%) motion sensor for 8-15' mounting heights with photocell pre-programmed for dusk to dawn operation.
- PIRH1FC3V Bi-level (100/35%) motion sensor for 15-30' mounting heights with photocell pre-programmed for dusk to dawn operation.

Networked Sensors/Controls (only available with P1SW, P2SW & P3SW)

- NLTAIR2 PIR nLightAIR Wireless enabled bi-level motion/ambient sensor for 8-15' mounting heights.
- NLTAIR2 PIRH nLightAIR Wireless enabled bi-level motion/ambient sensor for 15-30' mounting heights.

See page 4 for out of box functionality

Finish

DDBXD	Dark bronze
DBLXD	Black
DNAXD	Natural aluminum
DWHXD	White
DSSXD	Sandstone
DDBTXD	Textured dark bronze
DBLBXD	Textured black
DNATXD	Textured natural aluminum
DWHGXD	Textured white
DSSTXD	Textured sandstone

TBD

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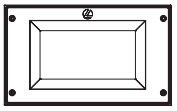
Accessories

Ordered and shipped separately.

WDGEAWS DDBXD	WDGE 3/8inch Architectural Wall Spacer (specify finish)
WDGE2PBBW DDBXD U	WDGE2 surface-mounted back box (specify finish)

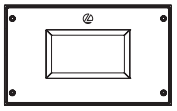
NOTES

1 P1-P5 not available with sensors/controls. Sensors/controls only available with P1SW, P2SW and P3SW.
2 50K not available in 90CRI
3 347V and 480V not available with E4WH, E10WH, E20WC or DS.
4 PE not available in 480V or with sensors/controls
5 DS option not available with E4WH, E10WH, E20WC or sensors/controls.
6 DMG option not available with sensors/controls
7 Not qualified for DLC. Not available with emergency battery backup or sensors/controls



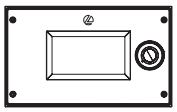
Default configuration with no sensors/controls.

Power Packages: P1, P2, P3, P4, P5



Small Window (SW) configuration

Power Packages: P1SW, P2SW, P3SW



Configuration with sensors/controls

Power Packages: P1SW, P2SW, P3SW

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Performance Package	System Watts	Dist. Type	27K (2700K, 80 CRI)					30K (3000K, 80 CRI)					35K (3500K, 80 CRI)					40K (4000K, 80 CRI)					50K (5000K, 80 CRI)				
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
P1 / P1SW	10W	VF	1,166	119	0	0	0	1,209	123	0	0	0	1,251	128	0	0	0	1,256	128	0	0	0	1,254	128	0	0	0
		VW	1,197	122	0	0	0	1,241	126	0	0	0	1,284	131	0	0	0	1,289	131	0	0	0	1,286	131	0	0	0
P2 / P2SW	15W	VF	1,878	129	1	0	0	1,947	134	1	0	0	2,015	139	1	0	0	2,023	139	1	0	0	2,019	139	1	0	0
		VW	1,927	133	1	0	0	1,997	137	1	0	0	2,067	142	1	0	0	2,075	143	1	0	0	2,071	143	1	0	0
P3 / P3SW	23W	VF	2,908	129	1	0	0	3,015	134	1	0	0	3,119	138	1	0	0	3,132	139	1	0	0	3,126	139	1	0	0
		VW	2,983	132	1	0	0	3,093	137	1	0	0	3,200	142	1	0	0	3,213	143	1	0	0	3,206	142	1	0	0
P4	35W	VF	4,096	117	1	0	1	4,247	121	1	0	1	4,394	126	1	0	1	4,412	126	1	0	1	4,403	126	1	0	1
		VW	4,202	120	1	0	0	4,357	125	1	0	1	4,508	129	1	0	1	4,526	129	1	0	1	4,517	129	1	0	1
P5	48W	VF	5,567	115	1	0	1	5,772	119	1	0	1	5,972	123	1	0	1	5,996	124	1	0	1	5,984	124	1	0	1
		VW	5,711	118	1	0	1	5,921	122	1	0	1	6,127	126	1	0	1	6,151	127	1	0	1	6,139	127	1	0	1

Electrical Load

Performance Package	System Watts	Current (A)					
		120V	208V	240V	277V	347V	480V
P1 / P1SW	10W	0.082	0.049	0.043	0.038	--	--
	13W	--	--	--	--	0.046	0.033
P2 / P2SW	15W	0.132	0.081	0.072	0.064	--	--
	18W	--	--	--	--	0.056	0.041
P3 / P3SW	23W	0.195	0.114	0.100	0.088	--	--
	26W	--	--	--	--	0.079	0.058
P4	35W	0.302	0.175	0.152	0.134	--	--
	38W	--	--	--	--	0.115	0.086
P5	48W	0.434	0.241	0.211	0.184	--	--
	52W	--	--	--	--	0.157	0.119

Lumen Multiplier for 90CRI

CCT	Multiplier
27K	0.845
30K	0.867
35K	0.845
40K	0.885
50K	0.898

Lumen Output in Emergency Mode (4000K, 80 CRI)

Option	Dist. Type	Lumens
E4WH	VF	646
	VW	647
E10WH	VF	1,658
	VW	1,701
E20WC	VF	2,840
	VW	2,913

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.03
10°C	50°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.98

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	>0.96	>0.95	>0.91

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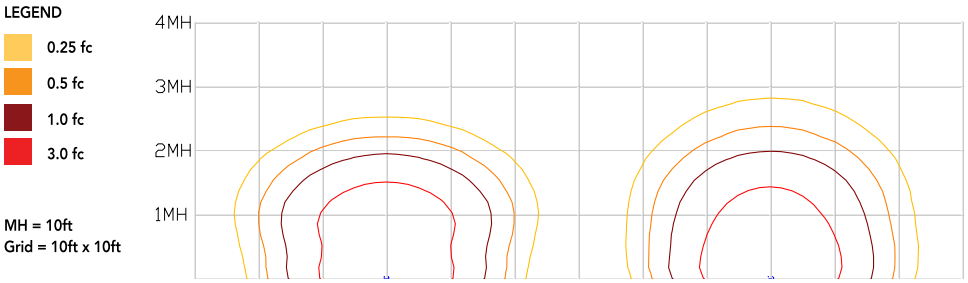
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit the Lithonia Lighting WDGE LED homepage. Tested in accordance with IESNA LM-79 and LM-80 standards.



WDGE2 LED P3 40K 80CRI VW

WDGE2 LED P3 40K 80CRI VF

Emergency Egress Options

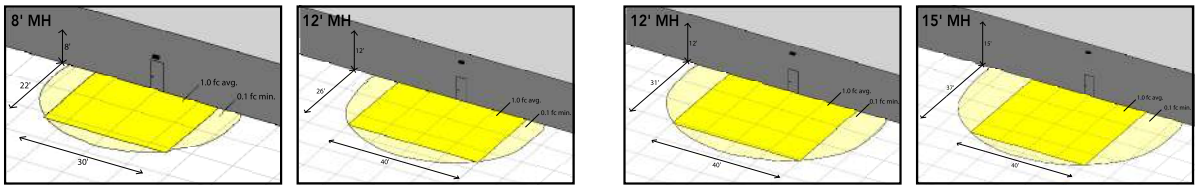
Emergency Battery Backup

The emergency battery backup is integral to the luminaire — no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product. All emergency battery backup configurations include an independent secondary driver with an integral relay to immediately detect loss of normal power and automatically energize the luminaire. The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time normal power is lost and maintain a minimum of 60% of the light output at the end of 90minutes.

Applicable codes: NFPA 70/NEC – section 700.16, NFPA 101 Life Safety Code Section 7.9

The examples below show illuminance of 1 fc average and 0.1 fc minimum in emergency mode with E10WH or E20WC and VF distribution.

Grid = 10ft x 10ft



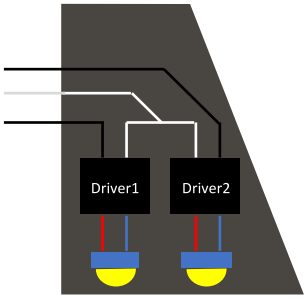
WDGE2 LED xx 40K 80CRI VF MVOLT E10WH

WDGE2 LED xx 40K 80CRI VF MVOLT E20WC

Dual Switching (DS) Option

The dual switching option offers operational redundancy that certain codes require. With this option the luminaire comes integrated with two drivers and two light engines. These work completely independent to each other so that a failure of any individual component does not cause the whole luminaire to go dark. This option is typically used with a back generator or inverter providing emergency power.

Applicable codes: NFPA 70/NEC – section 700.16, NFPA 101 Life Safety Code Section 7.9



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Control / Sensor Options

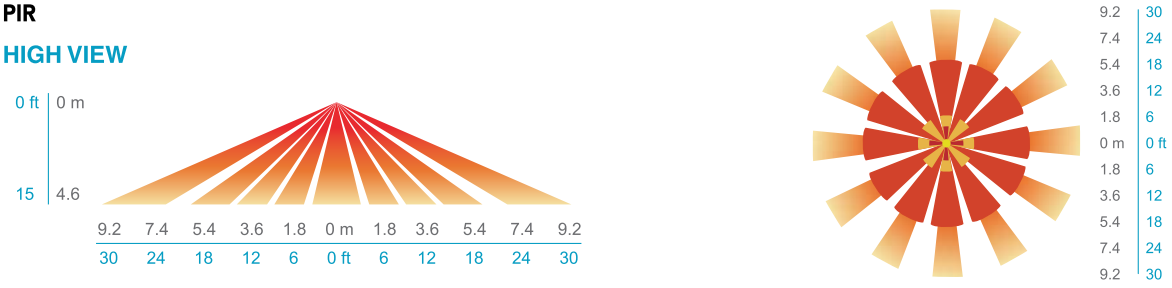
Motion/Ambient Sensor (PIR_, PIRH_)

Motion/Ambeint sensor (Sensor Switch MSOD) is integrated into the the luminaire. The sensor provides both Motion and Daylight based dimming of the luminaire. For motion detection, the sensor utilizes 100% Digital Passive Infrared (PIR) technology that is tuned for walking size motion while preventing false tripping from the environment. The integrated photocell enables additional energy savings during daytime periods when there is sufficient daylight. Optimize sensor coverage by either selecting PIR or PIRH option. PIR option comes with a sensor lens that is optimized to provide maximum coverage for mounting heights between 8-15ft, while PIRH is optimized for 15-40ft mounting height.

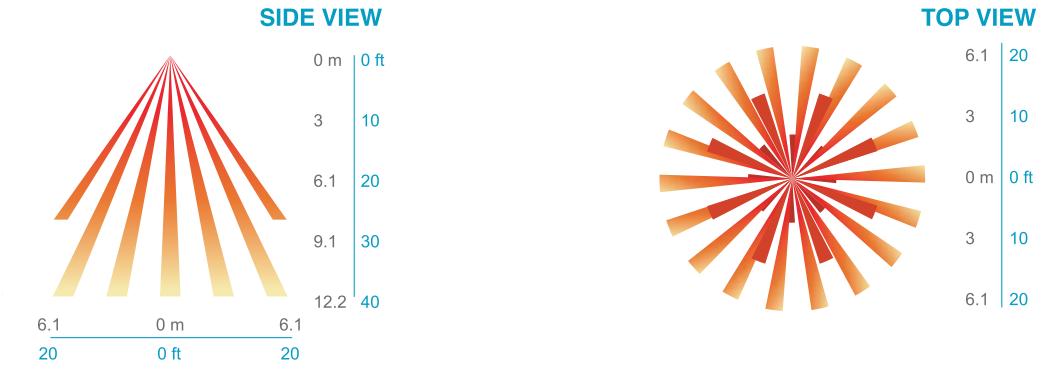
Networked Control (NLTAIR2)

nLight® AIR is a wireless lighting controls platform that allows for seamless integration of both indoor and outdoor luminaires. Five-tier security architecture, 900 MHz wireless communication and app (CLAIRITY™ Pro) based configurability combined together make nLight® AIR a secure, reliable and easy to use platform.

PIR



PIRH



Option	Dim Level	High Level (when triggered	Photocell Operation	Motion Time Delay	Ramp-down Time	Ramp-up Time
PIR or PIRH	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 5fc	5 min	5 min	Motion - 3 sec Photocell - 45 sec
PIR1FC3V, PIRH1FC3V	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 1fc	5 min	5 min	Motion - 3 sec Photocell - 45 sec
NLTAIR2 PIR, NLTAIR2 PIRH (out of box)	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 5fc	7.5 min	5 min	Motion - 3 sec Photocell - 45 sec

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Mounting, Options & Accessories

NLTAIR2 PIR – nLight AIR Motion/Ambient Sensor

D = 7"

H = 11"

W = 11.5"

PBBW – Surface-Mounted Back Box
Use when there is no junction box available.

D = 1.75"

H = 9"

W = 11.5"

AWS – 3/8inch Architectural Wall Spacer

D = 0.38"

H = 4.4"

W = 7.5"

FEATURES & SPECIFICATIONS

INTENDED USE
Common architectural look, with clean rectilinear shape, of the WDGE LED was designed to blend with any type of construction, whether it be tilt-up, frame or brick. Applications include commercial offices, warehouses, hospitals, schools, malls, restaurants, and other commercial buildings.

CONSTRUCTION
The single-piece die-cast aluminum housing integrates secondary heat sinks to optimize thermal transfer from the internal light engine heat sinks and promote long life. The driver is mounted in direct contact with the casting for a low operating temperature and long life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP66 rating for the luminaire.

FINISH
Exterior painted parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Standard Super Durable colors include dark bronze, black, natural aluminum, sandstone and white. Available in textured and non-textured finishes.

OPTICS
Well crafted reflector optics allow the light engine to be recessed within the luminaire, providing visual comfort, superior distribution, uniformity, and spacing in wall-mount applications. The WDGE LED has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL
Light engine consists of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L91/100,000 hours at 25°C). The electronic driver has a power factor of >90%, THD <20%. Luminaire comes with built in 6kV surge protection, which meets a minimum Category C low exposure (per ANSI/IEEE C62.41.2). Fixture ships standard with 0-10v dimmable driver.

INSTALLATION
A universal mounting plate with integral mounting support arms allows the fixture to hinge down for easy access while making wiring connections. The 3/8" Architectural Wall Spacer (AWS) can be used to create a floating appearance or to accommodate small imperfections in the wall surface. The ICW option can be used to mount the luminaire inverted for indirect lighting in dry and damp locations. Design can withstand up to a 1.5 G vibration load rating per ANSI C136.31.

LISTINGS
CSA certified to U.S. and Canadian standards. Luminaire is IP66 rated. PIR options are rated for wet location. Rated for -40°C minimum ambient. DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified. International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 2700K and 3000K color temperature only and SRM mounting only.

BUY AMERICAN
Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY
5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

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IES ROAD REPORT
PHOTOMETRIC FILENAME : WDGE2 LED P2SW 40K 80CRI VW.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] ISF 20152P16
[ISSUEDATE] 11/5/2019
[TESTLAB] ACUITY BRANDS LIGHTING, DECATUR LAB
[MANUFAC] Lithonia Lighting
[LUMCAT] WDGE2 LED P2SW 40K 80CRI VW
[LUMINAIRE] WDGE2 LED WITH P2SW - PERFORMANCE PACKAGE, 4000K, 80CRI, VISUAL COMFORT WIDE OPTIC
[DISTRIBUTION] TYPE II, VERY SHORT, BUG RATING: B1 - U0 - G0
[_TOTALLUMINAIRELUMENS] 2073
[_INPUTWATTAGE] 14.78
[_MOUNTING] WALL MOUNT
[_PHYSICALDIMENSIONS] 0.95833, 0.5833, 0.75
[_PRODUCTID] adf3b178-15e1-471e-bce0-7b95a82f5026
[_SERIES] WDGE2
[_SERIESID] 993532

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2074
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	140
Total Luminaire Watts	14.78
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1530.377
Maximum Candela Angle	2.5H 35V
Maximum Candela (<90 Degrees Vertical)	1530.377
Maximum Candela Angle (<90 Degrees Vertical)	2.5H 35V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	57.896 (2.8% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : WDGE2 LED P2SW 40K 80CRI VW.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	388.1	N.A.	18.7
FM - Front-Medium (30-60)	1093.0	N.A.	52.7
FH - Front-High (60-80)	239.4	N.A.	11.5
FVH - Front-Very High (80-90)	4.6	N.A.	0.2
BL - Back-Low (0-30)	145.7	N.A.	7.0
BM - Back-Medium (30-60)	148.4	N.A.	7.2
BH - Back-High (60-80)	49.2	N.A.	2.4
BVH - Back-Very High (80-90)	5.8	N.A.	0.3
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	2074.2	N.A.	100.0
BUG Rating	B1-U0-G0		

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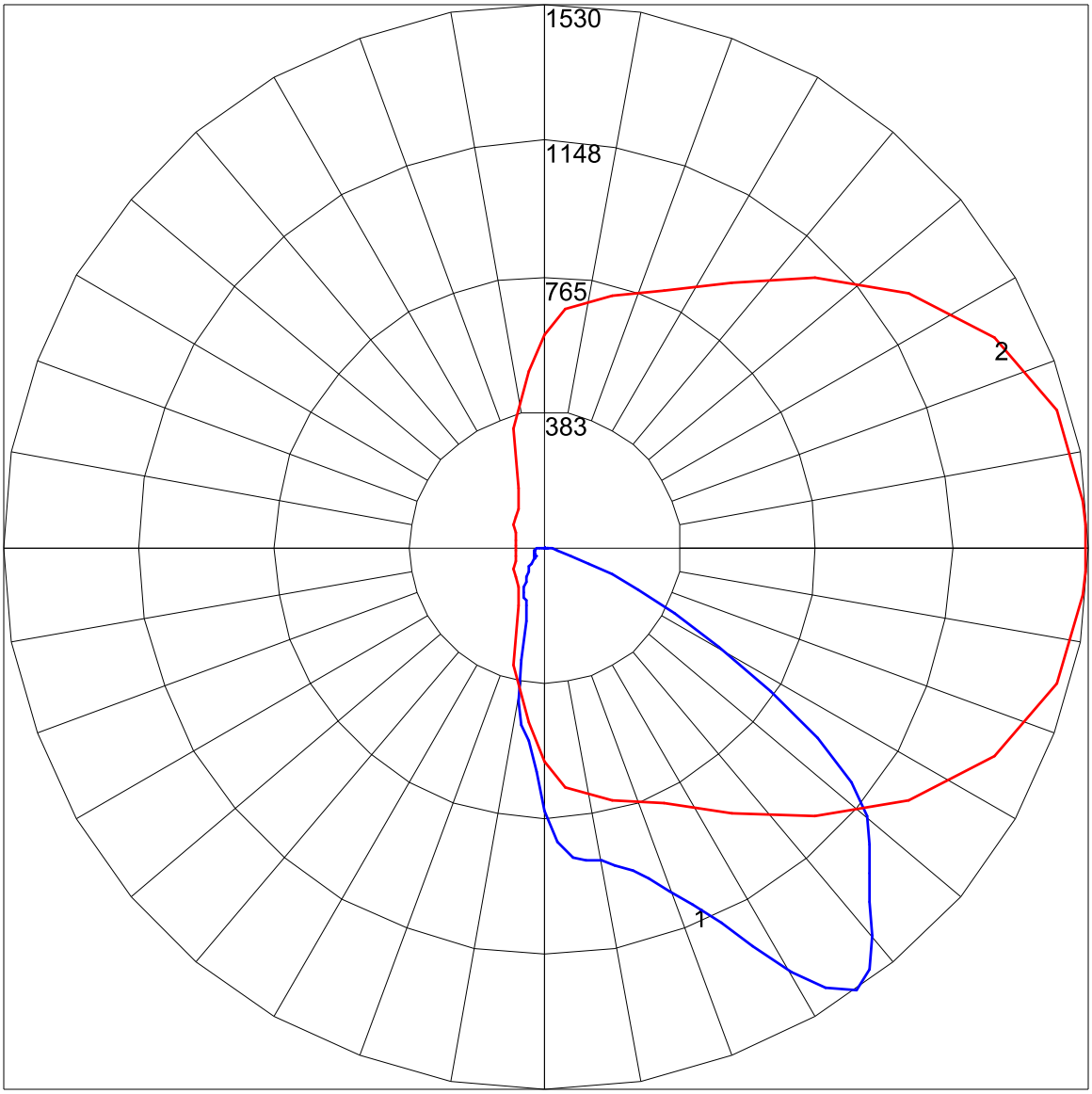
IES ROAD REPORT
PHOTOMETRIC FILENAME : WDGE2 LED P2SW 40K 80CRI VW.IES

POLAR GRAPH



Maximum Candela = 1530.377 Located At Horizontal Angle = 2.5, Vertical Angle = 35
1 - Vertical Plane Through Horizontal Angles (2.5 - 182.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (35) (Through Max. Cd.)

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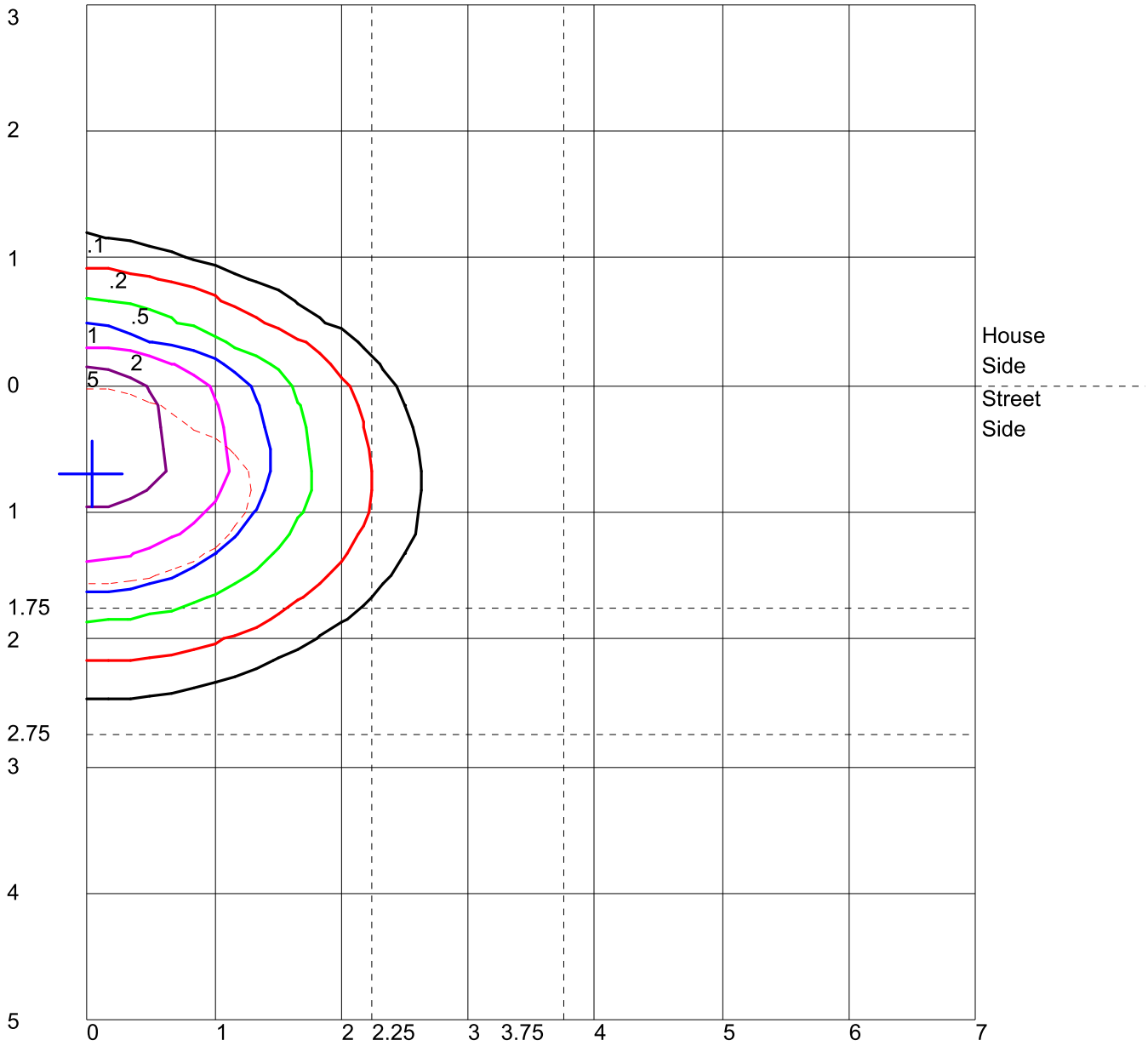
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : WDGE2 LED P2SW 40K 80CRI VW.IES

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



Distance In Units Of Mounting Height
Values Based On 10 Foot Mounting Height
1/2 Maximum Candela Trace Shown As Dashed Curve
(+) = Maximum Candela Point

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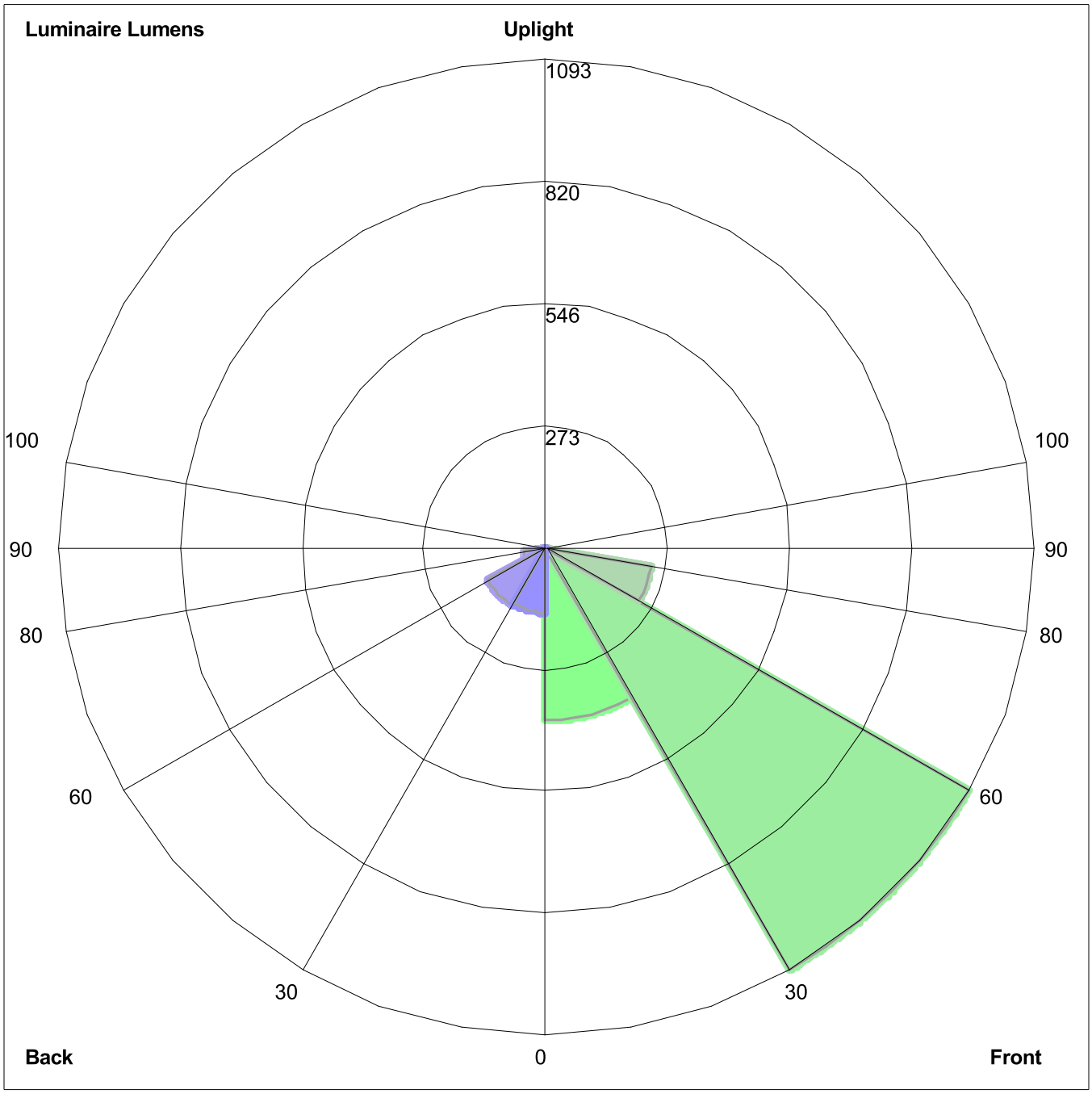
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : WDGE2 LED P2SW 40K 80CRI VW.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=388.1, Medium= 1093.0, High=239.4, Very High=4.6
Back: Low=145.7, Medium=148.4, High=49.2, Very High=5.8
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G0

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

D-Series Size 0
LED Area Luminaire

Catalog Number

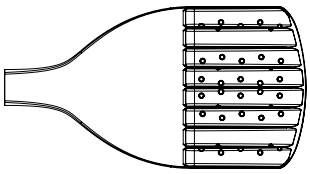
Notes

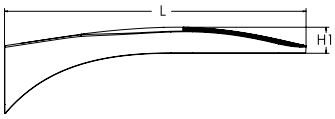
Type TYPE OWB

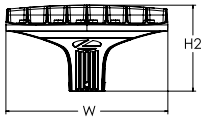
Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

EPA:	0.44 ft² (0.04 m²)
Length:	26.18" (66.5 cm)
Width:	14.06" (35.7 cm)
Height H1:	2.26" (5.7 cm)
Height H2:	7.46" (18.9 cm)
Weight:	23 lbs (10.4 kg)







Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications, with typical energy savings of 70% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: DSX0 LED P6 40K 70CRI T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX0 LED

Series	LEDs	Color temperature[2]	Color Rendering Index[2]	Distribution	Voltage	Mounting
DSX0 LED	**Forward optics** P1 P5 P2 P6 P3 P7 P4 **Rotated optics** P10[1] P12[1] P11[1] P13[1]	(this section 70CRI only) 30K 3000K 40K 4000K 50K 5000K (this section 80CRI only, extended lead times apply) 27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K 5000K	70CRI 70CRI 70CRI 80CRI 80CRI 80CRI 80CRI 80CRI	AFR Automotive front row T1S Type I short T2M Type II medium T3M Type III medium T3LG Type III low glare[3] T4M Type IV medium T4LG Type IV low glare[3] TFTM Forward throw medium T5M Type V medium T5LG Type V low glare T5W Type V wide BLC3 Type III backlight control[3] BLC4 Type IV backlight control[3] LCCO Left corner cutoff[3] RCCO Right corner cutoff[3]	MVOLT (120V-277V)[4] HVOLT (347V-480V)[5,6] XVOLT (277V-480V)[7,8]	**Shipped included** SPA Square pole mounting (#8 drilling, 3.5" min. SQ pole) RPA Round pole mounting (#8 drilling, 3" min. RND pole) SPA5 Square pole mounting (#5 drilling. 3" min. SQ pole)[9] RPA5 Round pole mounting (#5 drilling, 3" min. RND pole)[9] SPA8N Square narrow pole mounting (#8 drilling, 3" min. SQ pole) WBA Wall bracket[10] MA Mast arm adapter (mounts on 2 3/8" OD horizontal tenon)

Control options

Shipped installed

NLTAIR2 PIRHN	nLight AIR gen 2 enabled with bi-level motion / ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc.[11,12,18,19]
PIR	High/low, motion/ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc[13,18,19]
PER	NEMA twist-lock receptacle only (controls ordered separate)[14]
PER5	Five-pin receptacle only (controls ordered separate)[14,19]
PER7	Seven-pin receptacle only (controls ordered separate)[14,19]
FAO	Field adjustable output[15,19]
BL30	Bi-level switched dimming, 30%[16,19]
BL50	Bi-level switched dimming, 50%[16,19]
DMG	0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately)[17]

Other options

Shipped installed

HS	Houseside shield (black finish standard)[20]
L90	Left rotated optics[1]
R90	Right rotated optics[1]
CCE	Coastal Construction[21]
HA	50°C ambient operation[22]

Shipped separately

EGSR	External Glare Shield (reversible, field install required, matches housing finish)
BSDB	Bird Spikes (field install required)

Finish *(required)*

DDBXD	Dark Bronze
DBLXD	Black
DNAXD	Natural Aluminum
DWHXD	White
DDBTXD	Textured dark bronze
DBLBXD	Textured black
DNATXD	Textured natural aluminum
DWHGXD	Textured white

TBD

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Ordering Information

Accessories

Ordered and shipped separately.

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) [23]
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) [23]
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) [23]
DSHORT SBK	Shorting cap [23]
DSX0HS P#	House-side shield (enter package number P1-7, P10-13 in place of #)
DSXRPA (FINISH)	Round pole adapter (#8 drilling, specify finish)
DSXRPA5 (FINISH)	Round pole adapter #5 drilling (specify finish)
DSXSPA5 (FINISH)	Square pole adapter #5 drilling (specify finish)
DSX0EGSR (FINISH)	External glare shield (specify finish)
DSX0BSDB (FINISH)	Bird spike deterrent bracket (specify finish)

NOTES
1 Rotated optics available with packages P10, P11, P12 and P13. Must be combined with option L90 or R90.
2 30K, 40K, and 50K available in 70CRI and 80CRI. 27K and 35K only available with 80CRI. Contact Technical Support for other possible combinations.
3 T3LG, T4LG, BLC3, BLC4, LCCO, RCCO not available with option HS.
4 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
5 HVOLT driver operates on any line voltage from 347-480V (50/60 Hz).
6 HVOLT not available with package P1, P2 and P10 when combined with option NLTAIR2 PIRHN or option PIR.
7 XVOLT operates with any voltage between 277V and 480V (50/60 Hz).
8 XVOLT not available in packages P1, P2 or P10.
9 SPA5 and RPA5 for use with #5 drilling only (Not for use with #8 drilling).
10 WBA cannot be combined with Type 5 distributions plus photocell (PER).
11 NLTAIR2 and PIRHN must be ordered together. For more information on nLight Air 2.
12 NLTAIR2 PIRHN not available with other controls including PIR, PER, PER5, PER7, FAO, BL30, BL50 and DMG. NLTAIR2 PIRHN not available with P1, P2 and P10 using HVOLT. NLTAIR2 PIRHN not available with P1, P2 and P10 using XVOLT.
13 PIR not available with NLTAIR2, PER, PER5, PER7, FAO BL30, BL50 and DMG. PIR not available with P1, P2 and P10 using HVOLT. PIR not available with P1, P2 and P10 using XVOLT.
14 PER/PER5/PER7 not available with NLTAIR2, PIR, BL30, BL50. Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included.
15 FAO not available with other dimming control options NLTAIR2 PIRHN, PIR, PER5, PER7, BL30, BL50, or DMG.
16 BL30 and BL50 are not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, FAO and DMG.
17 DMG not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50 and FAO.
18 Reference Motion Sensor Default Settings table on page 4 to see functionality.
19 Reference Controls Options table on page 4.
20 Option HS not available with T3LG, T4LG, BLC3, BLC4, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
21 CCE option not available with option BS and EGSR. Contact Technical Support for availability.
22 Option HA not available with performance packages P6, P7, P12 and P13.
23 Requires luminaire to be specified with PER, PER5 or PER7 option. See Controls Table on page 4.

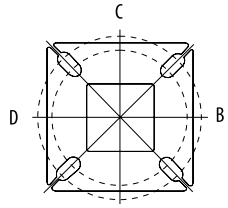
Shield Accessories

External Glare Shield (EGSR)

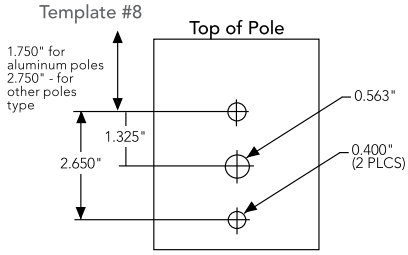
House Side Shield (HS)

Drilling

HANDHOLE ORIENTATION
(from top of pole)



Template #8



Tenon Mounting Slipfitter

Tenon O.D.	Mounting	Single Unit	2 @ 180	2 @ 90	3 @ 90	3 @120	4 @ 90
2-3/8"	RPA	AS3-5 190	AS3-5 280	AS3-5 290	AS3-5 390	AS3-5 320	AS3-5 490
2-7/8"	RPA	AST25-190	AST25-280	AST25-290	AST25-390	AST25-320	AST25-490
4"	RPA	AST35-190	AST35-280	AST35-290	AST35-390	AST35-320	AST35-490

Mounting Option	Drilling Template	Single	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
Head Location		Side B	Side B & D	Side B & C	Side B, C & D	Round Pole Only	Side A, B, C & D
Drill Nomenclature	#8	DM19AS	DM28AS	DM29AS	DM39AS	DM32AS	DM49AS
		Minimum Acceptable Outside Pole Dimension					
SPA	#8	3.5"	3.5"	3.5"	3.5"		3.5"
RPA	#8	3"	3"	3"	3"	3"	3"
SPA5	#5	3"	3"	3"	3"		3"
RPA5	#5	3"	3"	3"	3"	3"	3"
SPA8N	#8	3"	3"	3"	3"		3"

DSX0 Area Luminaire - EPA

*Includes luminaire and integral mounting arm. Other tenons, arms, brackets or other accessories are not included in this EPA data.

Fixture Quantity & Mounting Configuration	Single DM19	2 @ 180 DM28	2 @ 90 DM29	3 @ 90 DM39	3 @ 120 DM32	4 @ 90 DM49
Mounting Type						
DSX0 with SPA	0.44	0.88	0.96	1.18	---	1.16
DSX0 with SPA5, SPA8N	0.51	1.02	1.06	1.26	---	1.29
DSX0 with RPA, RPA5	0.51	1.02	1.06	1.26	1.24	1.29
DSX0 with MA	0.64	1.28	1.24	1.67	1.70	1.93

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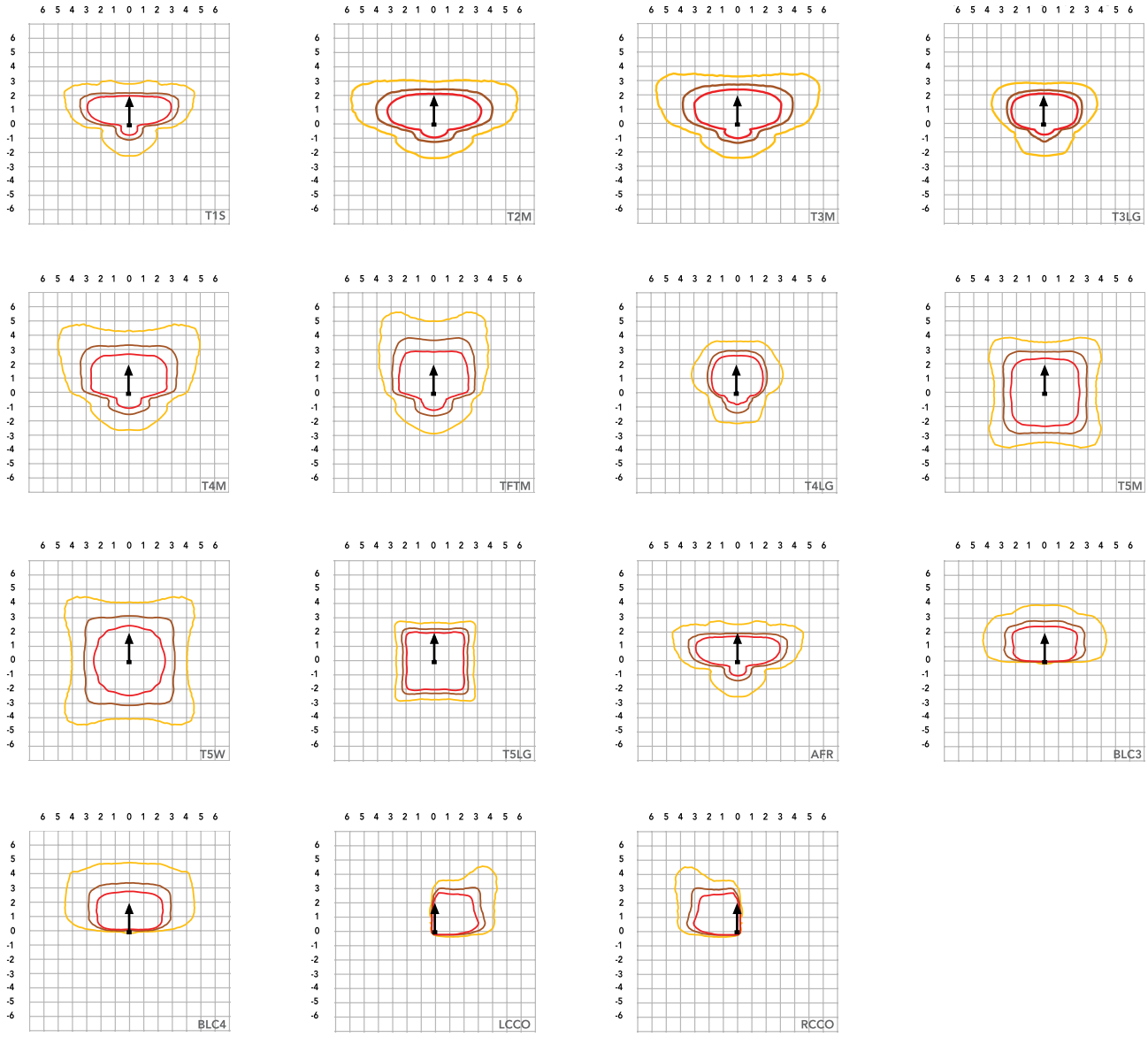
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's homepage.

Isofootcandle plots for the DSX0 LED P7 40K 70CRI. Distances are in units of mounting height (20').

LEGEND
- 0.1 fc
- 0.5 fc
- 1.0 fc



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Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.04
5°C	41°F	1.04
10°C	50°F	1.03
15°C	50°F	1.02
20°C	68°F	1.01
25°C	**77°C**	**1.00**
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	Lumen Maintenance Factor
0	1.00
25,000	0.94
50,000	0.89
100,000	0.80

FAO Dimming Settings

FAO Position	% Wattage	% Lumen Output
8	100%	100%
7	93%	95%
6	80%	85%
5	66%	73%
4	54%	61%
3	41%	49%
2	29%	36%
1	15%	20%

*Note: Calculated values are based on original performance package data. When calculating new values for given FAO position, use published values for each package based on input watts and lumens by optic type.

Electrical Load

					Current (A)					
	Performance Package	LED Count	Drive Current (mA)	Wattage	120V	208V	240V	277V	347V	480V
Forward Optics (Non-Rotated)	P1	20	530	34	0.28	0.16	0.14	0.12	0.10	0.07
	P2	20	700	45	0.38	0.22	0.19	0.16	0.13	0.09
	P3	20	1050	69	0.57	0.33	0.29	0.25	0.20	0.14
	P4	20	1400	94	0.78	0.45	0.39	0.34	0.27	0.19
	P5	40	700	89	0.75	0.43	0.38	0.33	0.26	0.19
	P6	40	1050	136	1.14	0.66	0.57	0.49	0.39	0.29
	P7	40	1300	170	1.42	0.82	0.71	0.62	0.49	0.36
Rotated Optics (Requires L90 or R90)	P10	30	530	51	0.42	0.24	0.21	0.18	0.15	0.11
	P11	30	700	67	0.57	0.33	0.28	0.25	0.20	0.14
	P12	30	1050	103	0.86	0.50	0.43	0.37	0.30	0.22
	P13	30	1300	129	1.07	0.62	0.54	0.46	0.37	0.27

LED Color Temperature / Color Rendering Multipliers

	70 CRI		80CRI		90CRI	
	Lumen Multiplier	Availability	Lumen Multiplier	Availability	Lumen Multiplier	Availability
5000K	102%	Standard	92%	Extended lead-time	71%	(see note)
4000K	100%	Standard	92%	Extended lead-time	67%	(see note)
3500K	100%	(see note)	90%	Extended lead-time	63%	(see note)
3000K	96%	Standard	87%	Extended lead-time	61%	(see note)
2700K	94%	(see note)	85%	Extended lead-time	57%	(see note)

Note: Some LED types are available as per special request. Contact Technical Support for more information.

Motion Sensor Default Settings

Option	Unoccupied Dimmed Level	High Level (when occupied)	Photocell Operation	Dwell Time	Ramp-up Time	Dimming Fade Rate
PIR	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min
NLTAIR2 PIRHN	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min

Controls Options

Nomenclature	Description	Functionality	Primary control device	Notes
FAO	Field adjustable output device installed inside the luminaire; wired to the driver dimming leads.	Allows the luminaire to be manually dimmed, effectively trimming the light output.	FAO device	Cannot be used with other controls options that need the 0-10V leads
DS (not available on DSX0)	Drivers wired independently for 50/50 luminaire operation	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drivers	Requires two separately switched circuits. Consider nLight AIR as a more cost effective alternative.
PER5 or PER7	Twist-lock photocell receptacle	Compatible with standard twist-lock photocells for dusk to dawn operation, or advanced control nodes that provide 0-10V dimming signals.	Twist-lock photocells such as DLL Elite or advanced control nodes such as ROAM.	Pins 4 & 5 to dimming leads on driver, Pins 6 & 7 are capped inside luminaire. Cannot be used with other controls options that need the 0-10V leads.
PIR	Motion sensor with integral photocell. Sensor suitable for 8' to 40' mounting height.	Luminaires dim when no occupancy is detected.	Acuity Controls rSBG	Cannot be used with other controls options that need the 0-10V leads.
NLTAIR2 PIRHN	nLight AIR enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor over-ride when wirelessly connected to the nLight Eclypse.	nLight Air rSBG	nLight AIR sensors can be programmed and commissioned from the ground using the CIAIRity Pro app. Cannot be used with other controls options that need the 0-10V leads.
BL30 or BL50	Integrated bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output	BLC device provides input to 0-10V dimming leads on all drivers providing either 100% or dimmed (30% or 50%) control by a secondary circuit	BLC UVOLT1	BLC device is powered off the 0-10V dimming leads, thus can be used with any input voltage from 120 to 480V

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Performance Data

Lumen Output

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Forward Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P1	33W	20	530	T1S	4,906	1	0	1	148	5,113	1	0	1	154	5,213	1	0	1	157
				T2M	4,545	1	0	2	137	4,736	1	0	2	143	4,829	1	0	2	145
				T3M	4,597	1	0	2	138	4,791	1	0	2	144	4,885	1	0	2	147
				T3LG	4,107	1	0	1	124	4,280	1	0	1	129	4,363	1	0	1	131
				T4M	4,666	1	0	2	141	4,863	1	0	2	146	4,957	1	0	2	149
				T4LG	4,244	1	0	1	128	4,423	1	0	1	133	4,509	1	0	1	136
				TFTM	4,698	1	0	2	141	4,896	1	0	2	147	4,992	1	0	2	150
				T5M	4,801	3	0	1	145	5,003	3	0	1	151	5,101	3	0	1	154
				T5W	4,878	3	0	1	147	5,084	3	0	2	153	5,183	3	0	2	156
				T5LG	4,814	2	0	1	145	5,018	2	0	1	151	5,115	2	0	1	154
				BLC3	3,344	0	0	1	101	3,485	0	0	1	105	3,553	0	0	1	107
				BLC4	3,454	0	0	2	104	3,599	0	0	2	108	3,670	0	0	2	111
				RCCO	3,374	0	0	1	102	3,517	0	0	1	106	3,585	0	0	1	108
				LCCO	3,374	0	0	1	102	3,517	0	0	1	106	3,585	0	0	1	108
				AFR	4,906	1	0	1	148	5,113	1	0	1	154	5,213	1	0	1	157
P2	45W	20	700	T1S	6,328	1	0	1	140	6,595	1	0	1	146	6,724	1	0	1	149
				T2M	5,862	1	0	2	130	6,109	1	0	2	135	6,228	1	0	2	138
				T3M	5,930	1	0	3	131	6,180	1	0	3	137	6,301	1	0	3	140
				T3LG	5,297	1	0	1	117	5,521	1	0	1	122	5,628	1	0	1	125
				T4M	6,018	1	0	3	133	6,272	1	0	3	139	6,395	1	0	3	142
				T4LG	5,474	1	0	1	121	5,705	1	0	1	126	5,816	1	0	1	129
				TFTM	6,060	1	0	3	134	6,316	1	0	3	140	6,439	1	0	3	143
				T5M	6,192	3	0	1	137	6,453	3	0	2	143	6,579	3	0	2	146
				T5W	6,293	3	0	2	139	6,558	3	0	2	145	6,686	3	0	2	148
				T5LG	6,210	2	0	1	138	6,472	3	0	1	143	6,598	3	0	1	146
				BLC3	4,313	0	0	2	96	4,495	0	0	2	100	4,583	0	0	2	102
				BLC4	4,455	0	0	2	99	4,643	0	0	2	103	4,733	0	0	2	105
				RCCO	4,352	0	0	2	96	4,536	0	0	2	100	4,624	0	0	2	102
				LCCO	4,352	0	0	2	96	4,536	0	0	2	100	4,624	0	0	2	102
				AFR	6,328	1	0	1	140	6,595	1	0	1	146	6,724	1	0	1	149
P3	69W	20	1050	T1S	9,006	1	0	2	131	9,386	1	0	2	136	9,569	1	0	2	139
				T2M	8,343	2	0	3	121	8,694	2	0	3	126	8,864	2	0	3	129
				T3M	8,439	2	0	3	122	8,795	2	0	3	128	8,967	2	0	3	130
				T3LG	7,539	1	0	2	109	7,857	1	0	2	114	8,010	1	0	2	116
				T4M	8,565	2	0	3	124	8,926	2	0	3	129	9,100	2	0	3	132
				T4LG	7,790	1	0	2	113	8,119	1	0	2	118	8,277	1	0	2	120
				TFTM	8,624	1	0	3	125	8,988	1	0	3	130	9,163	2	0	3	133
				T5M	8,812	3	0	2	128	9,184	4	0	2	133	9,363	4	0	2	136
				T5W	8,955	4	0	2	130	9,333	4	0	2	135	9,515	4	0	2	138
				T5LG	8,838	3	0	1	128	9,211	3	0	1	134	9,390	3	0	1	136
				BLC3	6,139	0	0	2	89	6,398	0	0	2	93	6,522	0	0	2	95
				BLC4	6,340	0	0	3	92	6,607	0	0	3	96	6,736	0	0	3	98
				RCCO	6,194	1	0	2	90	6,455	1	0	2	94	6,581	1	0	2	95
				LCCO	6,194	1	0	2	90	6,455	1	0	2	94	6,581	1	0	2	95
				AFR	9,006	1	0	2	131	9,386	1	0	2	136	9,569	1	0	2	139
P4	93W	20	1400	T1S	11,396	1	0	2	122	11,877	1	0	2	128	12,109	2	0	2	130
				T2M	10,557	2	0	3	113	11,003	2	0	3	118	11,217	2	0	3	121
				T3M	10,680	2	0	3	115	11,130	2	0	3	120	11,347	2	0	3	122
				T3LG	9,540	1	0	2	103	9,942	1	0	2	107	10,136	1	0	2	109
				T4M	10,839	2	0	3	117	11,296	2	0	3	121	11,516	2	0	4	124
				T4LG	9,858	1	0	2	106	10,274	1	0	2	110	10,474	1	0	2	113
				TFTM	10,914	2	0	3	117	11,374	2	0	3	122	11,596	2	0	3	125
				T5M	11,152	4	0	2	120	11,622	4	0	2	125	11,849	4	0	2	127
				T5W	11,332	4	0	3	122	11,811	4	0	3	127	12,041	4	0	3	129
				T5LG	11,184	3	0	1	120	11,656	3	0	2	125	11,883	3	0	2	128
				BLC3	7,768	0	0	2	83	8,096	0	0	2	87	8,254	0	0	2	89
				BLC4	8,023	0	0	3	86	8,362	0	0	3	90	8,524	0	0	3	92
				RCCO	7,838	1	0	2	84	8,169	1	0	2	88	8,328	1	0	2	90
				LCCO	7,838	1	0	2	84	8,169	1	0	2	88	8,328	1	0	2	90
				AFR	11,396	1	0	2	122	11,877	1	0	2	128	12,109	2	0	2	130

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Performance Data

Lumen Output

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Forward Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P5	90W	40	700	T1S	12,380	2	0	2	137	12,902	2	0	2	143	13,154	2	0	2	146
				T2M	11,468	2	0	3	127	11,952	2	0	3	133	12,185	2	0	3	135
				T3M	11,601	2	0	3	129	12,091	2	0	3	134	12,326	2	0	4	137
				T3LG	10,363	2	0	2	115	10,800	2	0	2	120	11,011	2	0	2	122
				T4M	11,774	2	0	4	131	12,271	2	0	4	136	12,510	2	0	4	139
				T4LG	10,709	1	0	2	119	11,160	2	0	2	124	11,378	2	0	2	126
				TFTM	11,856	2	0	3	132	12,356	2	0	4	137	12,596	2	0	4	140
				T5M	12,114	4	0	2	134	12,625	4	0	2	140	12,871	4	0	2	143
				T5W	12,310	4	0	3	137	12,830	4	0	3	142	13,080	4	0	3	145
				T5LG	12,149	3	0	2	135	12,662	3	0	2	141	12,908	3	0	2	143
				BLC3	8,438	0	0	2	94	8,794	0	0	2	98	8,966	0	0	2	99
				BLC4	8,715	0	0	3	97	9,083	0	0	3	101	9,260	0	0	3	103
				RCCO	8,515	1	0	2	94	8,874	1	0	2	98	9,047	1	0	2	100
				LCCO	8,515	1	0	2	94	8,874	1	0	2	98	9,047	1	0	2	100
				AFR	12,380	2	0	2	137	12,902	2	0	2	143	13,154	2	0	2	146
P6	137W	40	1050	T1S	17,545	2	0	3	128	18,285	2	0	3	133	18,642	2	0	3	136
				T2M	16,253	3	0	4	119	16,939	3	0	4	124	17,269	3	0	4	126
				T3M	16,442	2	0	4	120	17,135	3	0	4	125	17,469	3	0	4	128
				T3LG	14,687	2	0	2	107	15,306	2	0	2	112	15,605	2	0	2	114
				T4M	16,687	2	0	4	122	17,391	3	0	5	127	17,730	3	0	5	129
				T4LG	15,177	2	0	2	111	15,817	2	0	2	115	16,125	2	0	2	118
				TFTM	16,802	2	0	4	123	17,511	2	0	4	128	17,852	2	0	5	130
				T5M	17,168	4	0	2	125	17,893	5	0	3	131	18,241	5	0	3	133
				T5W	17,447	5	0	3	127	18,183	5	0	3	133	18,537	5	0	3	135
				T5LG	17,218	4	0	2	126	17,944	4	0	2	131	18,294	4	0	2	134
				BLC3	11,959	0	0	3	87	12,464	0	0	3	91	12,707	0	0	3	93
				BLC4	12,352	0	0	4	90	12,873	0	0	4	94	13,124	0	0	4	96
				RCCO	12,067	1	0	3	88	12,576	1	0	3	92	12,821	1	0	3	94
				LCCO	12,067	1	0	3	88	12,576	1	0	3	92	12,821	1	0	3	94
				AFR	17,545	2	0	3	128	18,285	2	0	3	133	18,642	2	0	3	136
P7	171W	40	1300	T1S	20,806	2	0	3	122	21,683	2	0	3	127	22,106	2	0	3	129
				T2M	19,273	3	0	4	113	20,086	3	0	4	118	20,478	3	0	4	120
				T3M	19,497	3	0	5	114	20,319	3	0	5	119	20,715	3	0	5	121
				T3LG	17,416	2	0	2	102	18,151	2	0	2	106	18,504	2	0	2	108
				T4M	19,787	3	0	5	116	20,622	3	0	5	121	21,024	3	0	5	123
				T4LG	17,997	2	0	2	105	18,756	2	0	2	110	19,121	2	0	2	112
				TFTM	19,924	3	0	5	117	20,765	3	0	5	122	21,170	3	0	5	124
				T5M	20,359	5	0	3	119	21,217	5	0	3	124	21,631	5	0	3	127
				T5W	20,689	5	0	3	121	21,561	5	0	3	126	21,982	5	0	3	129
				T5LG	20,418	4	0	2	120	21,279	4	0	2	125	21,694	4	0	2	127
				BLC3	14,182	0	0	3	83	14,780	0	0	3	87	15,068	0	0	3	88
				BLC4	14,647	0	0	4	86	15,265	0	0	4	89	15,562	0	0	4	91
				RCCO	14,309	1	0	3	84	14,913	1	0	3	87	15,204	1	0	3	89
				LCCO	14,309	1	0	3	84	14,913	1	0	3	87	15,204	1	0	3	89
				AFR	20,806	2	0	3	122	21,683	2	0	3	127	22,106	2	0	3	129

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Performance Data

Lumen Output

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Rotated Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P10	51W	30	530	T1S	7,399	3	0	3	145	7,711	3	0	3	151	7,862	3	0	3	154
				T2M	6,854	3	0	3	135	7,144	3	0	3	140	7,283	3	0	3	143
				T3M	6,933	3	0	3	136	7,225	3	0	3	142	7,366	3	0	3	145
				T3LG	6,194	2	0	2	122	6,455	2	0	2	127	6,581	2	0	2	129
				T4M	7,036	3	0	3	138	7,333	3	0	3	144	7,476	3	0	3	147
				T4LG	6,399	2	0	2	126	6,669	2	0	2	131	6,799	2	0	2	134
				TFTM	7,086	3	0	3	139	7,385	3	0	3	145	7,529	3	0	3	148
				T5M	7,239	3	0	2	142	7,545	3	0	2	148	7,692	3	0	2	151
				T5W	7,357	3	0	2	145	7,667	3	0	2	151	7,816	4	0	2	154
				T5LG	7,260	3	0	1	143	7,567	3	0	1	149	7,714	3	0	1	152
				BLC3	5,043	3	0	3	99	5,256	3	0	3	103	5,358	3	0	3	105
				BLC4	5,208	3	0	3	102	5,428	3	0	3	107	5,534	3	0	3	109
				RCCO	5,089	0	0	2	100	5,303	0	0	2	104	5,407	0	0	2	106
				LCCO	5,089	0	0	2	100	5,303	0	0	2	104	5,407	0	0	2	106
				AFR	7,399	3	0	3	145	7,711	3	0	3	151	7,862	3	0	3	154
P11	68W	30	700	T1S	9,358	3	0	3	138	9,753	3	0	3	143	9,943	3	0	3	146
				T2M	8,669	3	0	3	127	9,034	3	0	3	133	9,211	3	0	3	135
				T3M	8,768	3	0	3	129	9,138	3	0	3	134	9,316	3	0	3	137
				T3LG	7,833	3	0	3	115	8,164	3	0	3	120	8,323	3	0	3	122
				T4M	8,899	3	0	3	131	9,274	3	0	3	136	9,455	3	0	3	139
				T4LG	8,093	3	0	3	119	8,435	3	0	3	124	8,599	3	0	3	126
				TFTM	8,962	3	0	3	132	9,340	3	0	3	137	9,522	3	0	3	140
				T5M	9,156	4	0	2	135	9,542	4	0	2	140	9,728	4	0	2	143
				T5W	9,304	4	0	2	137	9,696	4	0	2	143	9,885	4	0	2	145
				T5LG	9,182	3	0	1	135	9,569	3	0	1	141	9,756	3	0	1	143
				BLC3	6,378	3	0	3	94	6,647	3	0	3	98	6,777	3	0	3	100
				BLC4	6,587	3	0	3	97	6,865	3	0	3	101	6,999	3	0	3	103
				RCCO	6,436	0	0	2	95	6,707	0	0	2	99	6,838	0	0	2	101
				LCCO	6,436	0	0	2	95	6,707	0	0	2	99	6,838	0	0	2	101
				AFR	9,358	3	0	3	138	9,753	3	0	3	143	9,943	3	0	3	146
P12	103W	30	1050	T1S	13,247	3	0	3	128	13,806	3	0	3	134	14,075	3	0	3	136
				T2M	12,271	4	0	4	119	12,789	4	0	4	124	13,038	4	0	4	126
				T3M	12,412	4	0	4	120	12,935	4	0	4	125	13,187	4	0	4	128
				T3LG	11,089	3	0	3	107	11,556	3	0	3	112	11,782	3	0	3	114
				T4M	12,597	4	0	4	122	13,128	4	0	4	127	13,384	4	0	4	129
				T4LG	11,457	3	0	3	111	11,940	3	0	3	116	12,173	3	0	3	118
				TFTM	12,686	4	0	4	123	13,221	4	0	4	128	13,479	4	0	4	130
				T5M	12,960	4	0	2	125	13,507	4	0	2	131	13,770	4	0	2	133
				T5W	13,170	4	0	3	127	13,726	4	0	3	133	13,994	4	0	3	135
				T5LG	12,998	3	0	2	126	13,546	3	0	2	131	13,810	3	0	2	134
				BLC3	9,029	3	0	3	87	9,409	3	0	3	91	9,593	3	0	3	93
				BLC4	9,324	4	0	4	90	9,718	4	0	4	94	9,907	4	0	4	96
				RCCO	9,110	1	0	2	88	9,495	1	0	2	92	9,680	1	0	2	94
				LCCO	9,110	1	0	2	88	9,494	1	0	2	92	9,680	1	0	2	94
				AFR	13,247	3	0	3	128	13,806	3	0	3	134	14,075	3	0	3	136
P13	129W	30	1300	T1S	15,704	3	0	3	122	16,366	3	0	3	127	16,685	4	0	4	130
				T2M	14,547	4	0	4	113	15,161	4	0	4	118	15,457	4	0	4	120
				T3M	14,714	4	0	4	114	15,335	4	0	4	119	15,634	4	0	4	121
				T3LG	13,145	3	0	3	102	13,700	3	0	3	106	13,967	3	0	3	108
				T4M	14,933	4	0	4	116	15,563	4	0	4	121	15,867	4	0	4	123
				T4LG	13,582	3	0	3	105	14,155	3	0	3	110	14,431	3	0	3	112
				TFTM	15,039	4	0	4	117	15,673	4	0	4	122	15,979	4	0	4	124
				T5M	15,364	4	0	2	119	16,013	4	0	2	124	16,325	4	0	2	127
				T5W	15,613	5	0	3	121	16,272	5	0	3	126	16,589	5	0	3	129
				T5LG	15,409	3	0	2	120	16,059	3	0	2	125	16,372	4	0	2	127
				BLC3	10,703	4	0	4	83	11,155	4	0	4	87	11,372	4	0	4	88
				BLC4	11,054	4	0	4	86	11,520	4	0	4	89	11,745	4	0	4	91
				RCCO	10,800	1	0	2	84	11,256	1	0	2	87	11,475	1	0	3	89
				LCCO	10,800	1	0	2	84	11,255	1	0	2	87	11,475	1	0	3	89
				AFR	15,704	3	0	3	122	16,366	3	0	3	127	16,685	4	0	4	130

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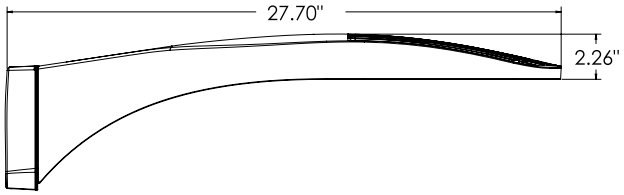
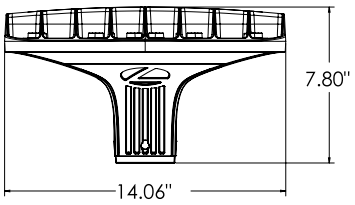
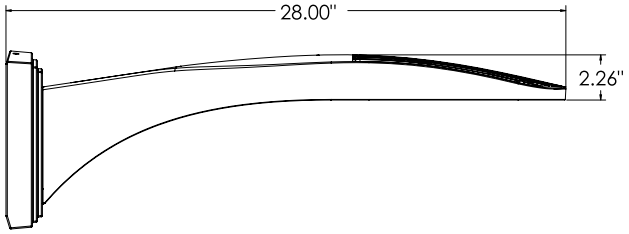
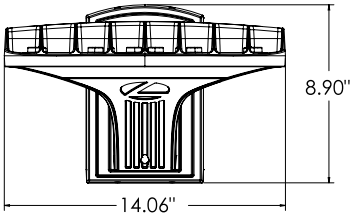
Dimensions



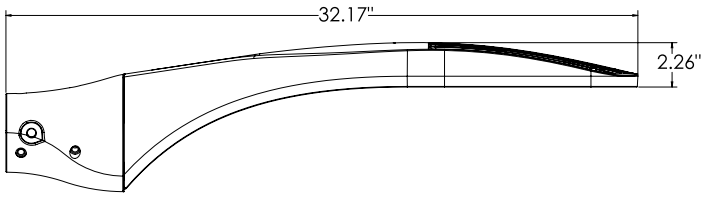


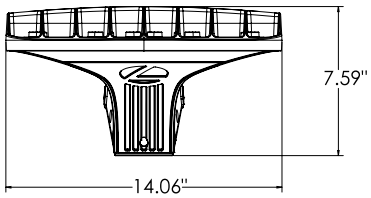
DSX0 with RPA, RPA5, SPA5, SPA8N mount
Weight: 25 lbs





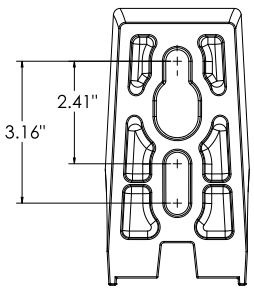
DSX0 with WBA mount
Weight: 27 lb



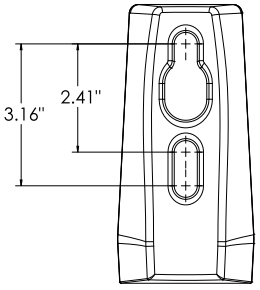


DSX0 with MA mount
Weight: 28 lbs

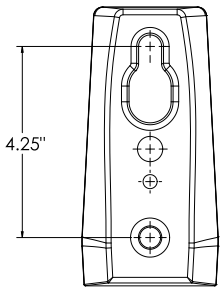
SPA (STANDARD ARM)



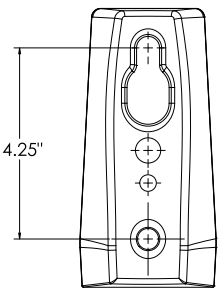
RPA



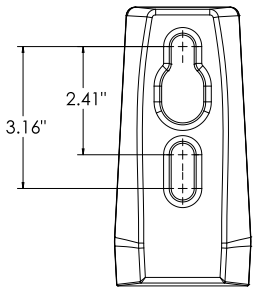
SPA5



RPA5



SPA8N



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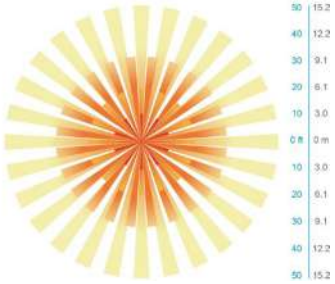
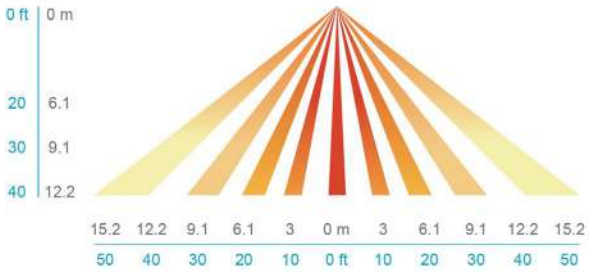
nLight Control - Sensor Coverage and Settings

nLight Sensor Coverage Pattern

NLTAIR2 PIRHN



Top



Side

FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Size 0 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and pedestrian areas.

CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED driver is mounted in direct contact with the casting to promote low operating temperature and long life. Housing driver compartment is completely sealed against moisture and environmental contaminants (IP66). Vibration rated per ANSI C136.31 for 3G. Low EPA (0.44 ft^2) for optimized pole wind loading.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

COASTAL CONSTRUCTION (CCE)

Optional corrosion resistant construction is engineered with added corrosion protection in materials and/or pre-treatment of base material under super durable paint. Provides additional corrosion protection for applications near coastal areas. Finish is salt spray tested to over 5,000 hours per ASTM B117 with scribe rating of 10. Additional lead-times may apply.

OPTICS

Precision-molded proprietary silicone lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in 3000 K, 4000 K or 5000 K (70 CRI) configurations. 80CRI configurations are also available. The D-Series Size 0 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine(s) configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L80/100,000 hours at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

STANDARD CONTROLS

The DSX0 LED area luminaire has a number of control options. DSX Size 0, comes standard with 0-10V dimming driver. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. PIR integrated motion sensor with on-board photocell feature field-adjustable programing and are suitable for mounting heights up to 40 feet. Control option BL features a bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output.

nLIGHT AIR CONTROLS

The DSX0 LED area luminaire is also available with nLight® AIR for the ultimate in wireless control. This powerful controls platform provides out-of-the-box basic motion sensing and photocontrol functionality and is suitable for mounting heights up to 40 feet. Once commissioned using a smartphone and the easy-to-use CLAIRITY app, nLight AIR equipped luminaries can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclypse. Additional information about nLight Air can be found here.

INSTALLATION

Integral mounting arm allows for fast mounting using Lithonia standard #8 drilling and accommodates pole drilling's from 2.41 to 3.12" on center. The standard "SPA" option for square poles and the "RPA" option for round poles use the #8 drilling. For #5 pole drillings, use SPA5 or RPA5. Additional mountings are available including a wall bracket (WBA) and mast arm (MA) option that allows luminaire attachment to a 2 3/8" horizontal mast arm.

LISTINGS

UL listed to meet U.S. and Canadian standards. UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP66 rated. Rated for -40°C minimum ambient.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

WARRANTY

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

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IES ROAD REPORT
PHOTOMETRIC FILENAME : DSX0 LED P1 40K 70CRI T2M HS.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] ISF 222160P5
[ISSUEDATE] 11/10/2022
[TESTLAB] SCALED PHOTOMETRY
[MANUFAC] Lithonia Lighting
[LUMCAT] DSX0 LED P1 40K 70CRI T2M HS
[LUMINAIRE] D-Series Size 0 Area Luminaire P1 Performance Package 4000K CCT 70 CRI Type 2 Medium Houseside Shield
[DISTRIBUTION] TYPE III, MEDIUM, BUG RATING: B1 - U0 - G2
[_TOTALLUMINAIRELUMENS] 4110
[_INPUTWATTAGE] 33.21
[_LAMPTYPE] LED
[_MOUNTING] OUTDOOR
[_PHYSICALDIMENSIONS] 0.79, 1.14, 0
[_PRODUCTID] 27890dd3-482f-452e-a8f7-67a77ad901aa
[_SERIES] DSX0
[_SERIESID] 596134

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Medium
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4109
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	33.21
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3618.681
Maximum Candela Angle	70H 72.5V
Maximum Candela (<90 Degrees Vertical)	3618.681
Maximum Candela Angle (<90 Degrees Vertical)	70H 72.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	2206.582 (53.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : DSX0 LED P1 40K 70CRI T2M HS.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	212.7	N.A.	5.2
FM - Front-Medium (30-60)	1380.9	N.A.	33.6
FH - Front-High (60-80)	1840.9	N.A.	44.8
FVH - Front-Very High (80-90)	122.9	N.A.	3.0
BL - Back-Low (0-30)	123.5	N.A.	3.0
BM - Back-Medium (30-60)	255.6	N.A.	6.2
BH - Back-High (60-80)	166.8	N.A.	4.1
BVH - Back-Very High (80-90)	5.8	N.A.	0.1
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	4109.1	N.A.	100.0
BUG Rating	B1-U0-G2		

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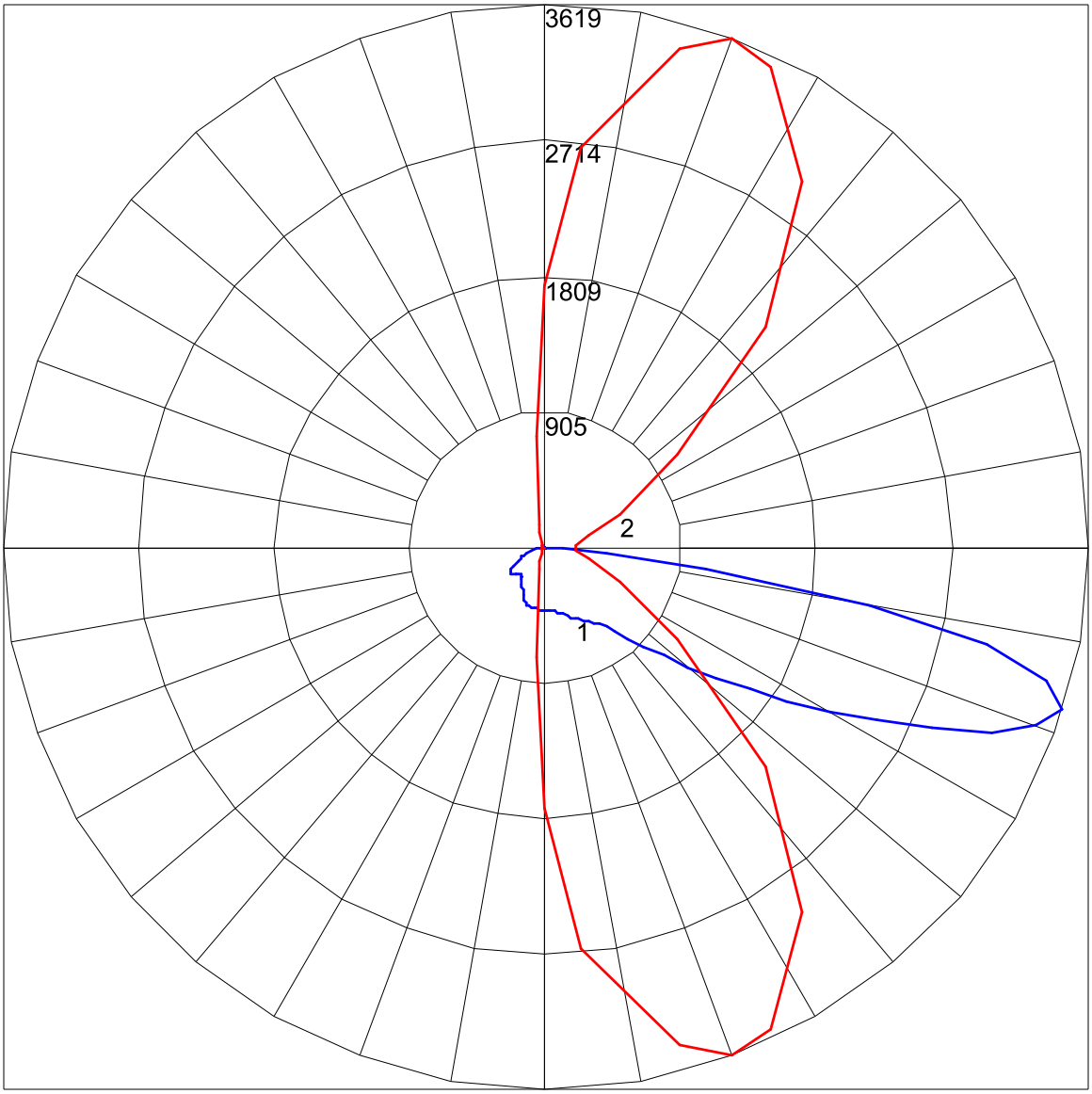
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : DSX0 LED P1 40K 70CRI T2M HS.IES

POLAR GRAPH



Maximum Candela = 3618.681 Located At Horizontal Angle = 70, Vertical Angle = 72.5
1 - Vertical Plane Through Horizontal Angles (70 - 250) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

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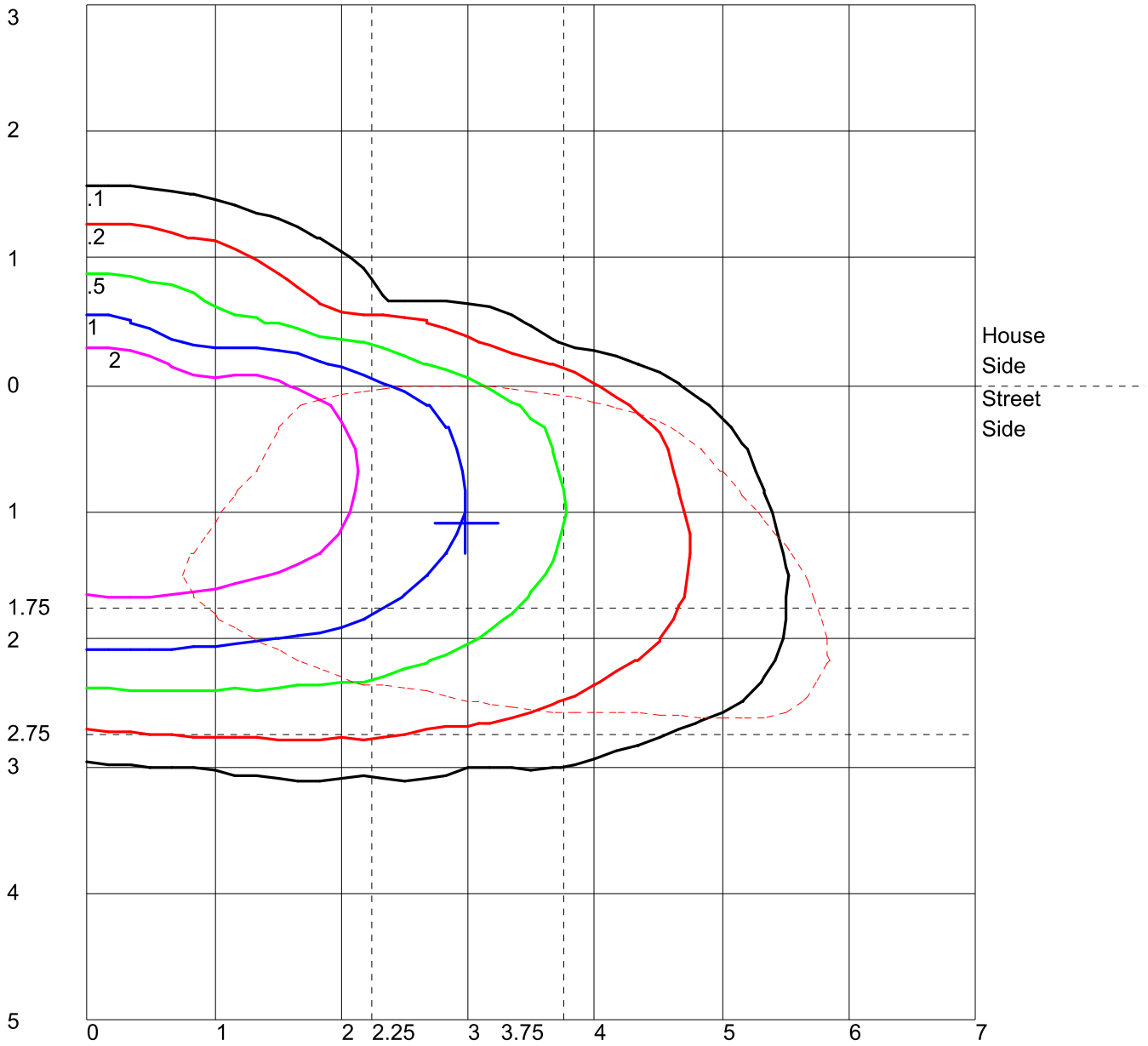
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : DSX0 LED P1 40K 70CRI T2M HS.IES

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



Distance In Units Of Mounting Height
Values Based On 10 Foot Mounting Height
1/2 Maximum Candela Trace Shown As Dashed Curve
(+) = Maximum Candela Point

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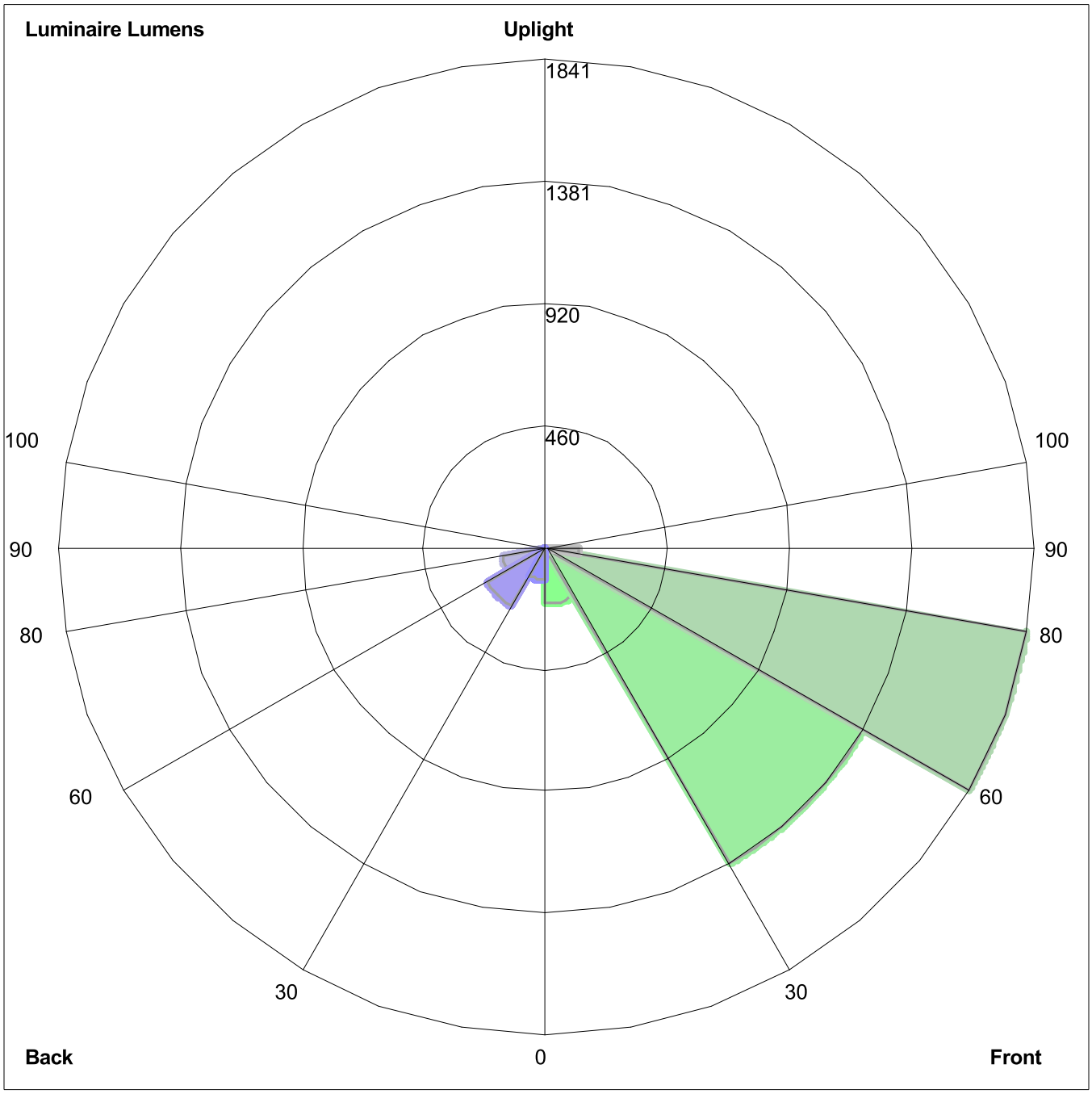
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : DSX0 LED P1 40K 70CRI T2M HS.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=212.7, Medium=1380.9, High=1840.9, Very High=122.9
Back: Low=123.5, Medium=255.6, High=166.8, Very High=5.8
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G2

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

WDGE3 LED
Architectural Wall Sconce

Buy American

Catalog Number

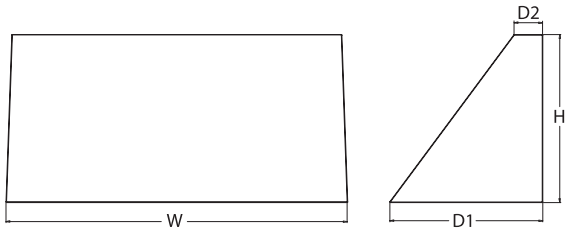
Notes

Type TYPE OWC

Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

Depth (D1): 8"
Depth (D2): 1.5"
Height: 9"
Width: 18"
Weight: (without options) 19.5 lbs



Introduction

The WDGE LED family is designed to meet specifier's every wall-mounted lighting need in a widely accepted shape that blends with any architecture. The clean rectilinear design comes in four sizes with lumen packages ranging from 1,200 to 25,000 lumens, providing a true site-wide solution. Embedded with nLight® AIR wireless controls, the WDGE family provides additional energy savings and code compliance.

WDGE3 has been designed to deliver up to 12,000 lumens through a precision refractive lens with wide distribution, perfect for augmenting the lighting from pole mounted luminaires.

WDGE LED Family Overview

Luminaire	Standard EM, 0°C	Cold EM, -20°C	Sensor	Lumens (4000K)					
				P1	P2	P3	P4	P5	P6
WDGE1 LED	4W	--	--	1,200	2,000	--	--	--	--
WDGE2 LED	10W	18W	Standalone / nLight	1,200	2,000	3,000	4,500	6,000	--
WDGE3 LED	15W	18W	Standalone / nLight	7,500	8,500	10,000	12,000	--	--
WDGE4 LED	--	--	Standalone / nLight	12,000	16,000	18,000	20,000	22,000	25,000

Ordering Information

EXAMPLE: WDGE3 LED P3 40K 70CRI R3 MVOLT SRM DDBXD

Series	Package	Color Temperature	CRI	Distribution	Voltage	Mounting
WDGE3 LED	P1	30K 3000K	70CRI	R2 Type 2	MVOLT	**Shipped included**
	P2	40K 4000K	80CRI	R3 Type 3	347[1]	SRM Surface mounting bracket
	P3	50K 5000K		R4 Type 4	480[1]	ICW Indirect Canopy/Ceiling Washer bracket (dry/damp locations only)[4]
	P4			RFT Forward Throw		**Shipped separately**
						AWS 3/8inch Architectural wall spacer
						PBBW Surface-mounted back box (top, left, right conduit entry). Use when there is no junction box available.

Options

E15WH	Emergency battery backup, Certified in CA Title 20 MAEDBS (15W, 5°C min)
E20WC	Emergency battery backup, Certified in CA Title 20 MAEDBS (18W, -20°C min)
PE[2]	Photocell, Button Type
DMG[3]	0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately)
BCE	Bottom conduit entry for back box (PBBW). Total of 4 entry points.
SPD10KV	10kV Surge pack
BAA	Buy America(n) Act Compliant

Standalone Sensors/Controls

PIR	Bi-level (100/35%) motion sensor for 8-15' mounting heights. Intended for use on switched circuits with external dusk to dawn switching.
PIRH	Bi-level (100/35%) motion sensor for 15-30' mounting heights. Intended for use on switched circuits with external dusk to dawn switching
PIR1FC3V	Bi-level (100/35%) motion sensor for 8-15' mounting heights with photocell pre-programmed for dusk to dawn operation.
PIRH1FC3V	Bi-level (100/35%) motion sensor for 15-30' mounting heights with photocell pre-programmed for dusk to dawn operation.

Networked Sensors/Controls

NLTAIR2 PIR	nLightAIR Wireless enabled bi-level motion/ambient sensor for 8-15' mounting heights.
NLTAIR2 PIRH	nLightAIR Wireless enabled bi-level motion/ambient sensor for 15-30' mounting heights.

See page 4 for out of box functionality

Finish

DDBXD	Dark bronze
DBLXD	Black
DNAXD	Natural aluminum
DWHXD	White
DSSXD	Sandstone
DDBTXD	Textured dark bronze
DBLBXD	Textured black
DNATXD	Textured natural aluminum
DWHGXD	Textured white
DSSTXD	Textured sandstone

TBD

Accessories

Ordered and shipped separately.

WDGEAWS DDBXD	WDGE 3/8inch Architectural Wall Spacer (specify finish)
WDGE3PBBW DDBXD U	WDGE3 surface-mounted back box (specify finish)

NOTES

1. 347V and 480V not available with E15WH and E20WC.
2. PE not available in 480V and with sensors/controls.
3. DMG option not available with sensors/controls.
4. Not qualified for DLC. Not available with emergency battery backup or sensors/controls

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Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Performance Package	System Watts	Dist. Type	30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
P1	52W	R2	7,037	136	1	0	1	7,649	148	2	0	1	7,649	148	2	0	1
		R3	6,922	134	1	0	2	7,524	145	1	0	2	7,524	145	1	0	2
		R4	7,133	138	1	0	2	7,753	150	1	0	2	7,753	150	1	0	2
		RFT	6,985	135	1	0	2	7,592	147	1	0	2	7,592	147	1	0	2
P2	59W	R2	7,968	135	2	0	1	8,661	147	2	0	1	8,661	147	2	0	1
		R3	7,838	133	1	0	2	8,519	144	1	0	2	8,519	144	1	0	2
		R4	8,077	137	1	0	2	8,779	149	1	0	2	8,779	149	1	0	2
		RFT	7,909	134	1	0	2	8,597	146	2	0	2	8,597	146	2	0	2
P3	71W	R2	9,404	132	2	0	1	10,221	143	2	0	1	10,221	143	2	0	1
		R3	9,250	130	2	0	2	10,054	141	2	0	2	10,054	141	2	0	2
		R4	9,532	134	2	0	2	10,361	145	2	0	2	10,361	145	2	0	2
		RFT	9,334	131	2	0	2	10,146	142	2	0	2	10,146	142	2	0	2
P4	88W	R2	11,380	129	2	0	1	12,369	140	2	0	1	12,369	140	2	0	1
		R3	11,194	127	2	0	2	12,167	138	2	0	2	12,167	138	2	0	2
		R4	11,535	131	2	0	2	12,538	142	2	0	2	12,538	142	2	0	2
		RFT	11,295	128	2	0	2	12,277	139	2	0	2	12,277	139	2	0	2

Electrical Load

Performance Package	System Watts	Current (A)					
		120V	208V	240V	277V	347V	480V
P1	52W	0.437	0.246	0.213	0.186	0.150	0.110
P2	59W	0.498	0.287	0.251	0.220	0.175	0.126
P3	71W	0.598	0.344	0.300	0.262	0.210	0.152
P4	88W	0.727	0.424	0.373	0.333	0.260	0.190

Lumen Output in Emergency Mode (4000K, 70 CRI)

Option	Dist. Type	Lumens
E15WH	R2	3,185
	R3	3,133
	R4	3,229
	RFT	3,162
E20WC	R2	3,669
	R3	3,609
	R4	3,719
	RFT	3,642

Lumen Multiplier for 80CRI

CCT	Multiplier
30K	0.891
40K	0.906
50K	0.906

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.05
10°C	50°F	1.03
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.97

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	>0.98	>0.97	>0.92

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Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit the Lithonia Lighting WDGE LED homepage. Tested in accordance with IESNA LM-79 and LM-80 standards.

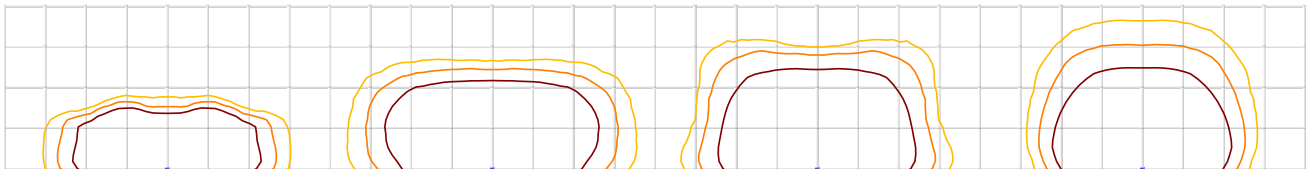
LEGEND

0.25 fc

0.5 fc

1.0 fc

MH = 15ft
Grid = 15ft x 15ft



WDGE3 LED P3 40K 70CRI R2 | WDGE3 LED P3 40K 70CRI R3 | WDGE3 LED P3 40K 70CRI R4 | WDGE3 LED P3 40K 70CRI RFT

Emergency Egress Options

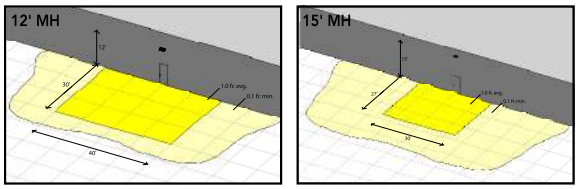
Emergency Battery Backup

The emergency battery backup is integral to the luminaire — no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product. All emergency battery backup configurations include an independent secondary driver with an integral relay to immediately detect loss of normal power and automatically energize the luminaire. The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time normal power is lost and maintain, minimum of 60% of the light output at the end of 90minutes.

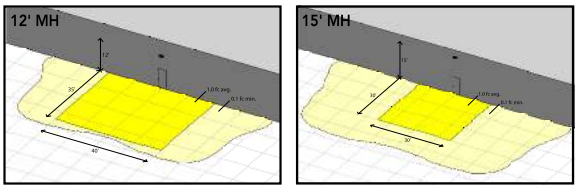
Applicable codes: NFPA 70/NEC – section 700.16, NFPA 101 Life Safety Code Section 7.9

The examples below show illuminance of 1 fc average and 0.1 fc minimum in emergency mode with E15WH or E20WC and R4 distribution.

Grid = 10ft x 10ft



WDGE3 LED xx 40K 70CRI R4 MVOLT E15WH



WDGE3 LED xx 40K 70CRI R4 MVOLT E20WC

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Control / Sensor Options

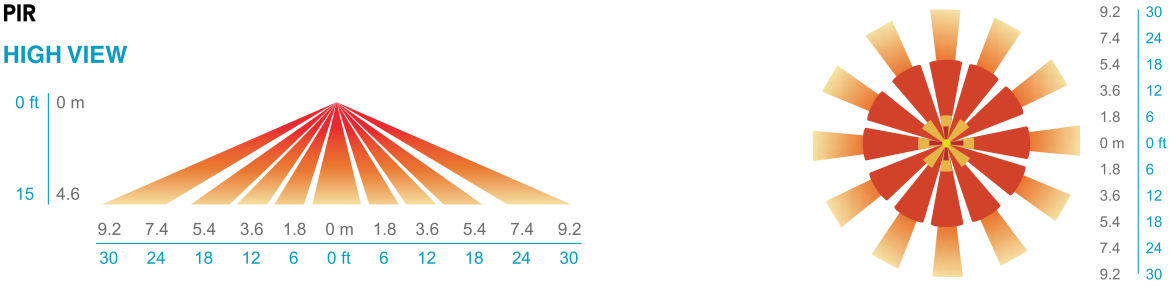
Motion/Ambient Sensor (PIR_, PIRH_)

Motion/Ambeint sensor (Sensor Switch MSOD) is integrated into the the luminaire. The sensor provides both Motion and Daylight based dimming of the luminaire. For motion detection, the sensor utilizes 100% Digital Passive Infrared (PIR) technology that is tuned for walking size motion while preventing false tripping from the environment. The integrated photocell enables additional energy savings during daytime periods when there is sufficient daylight. Optimize sensor coverage by either selecting PIR or PIRH option. PIR option comes with a sensor lens that is optimized to provide maximum coverage for mounting heights between 8-15ft, while PIRH is optimized for 15-40ft mounting height.

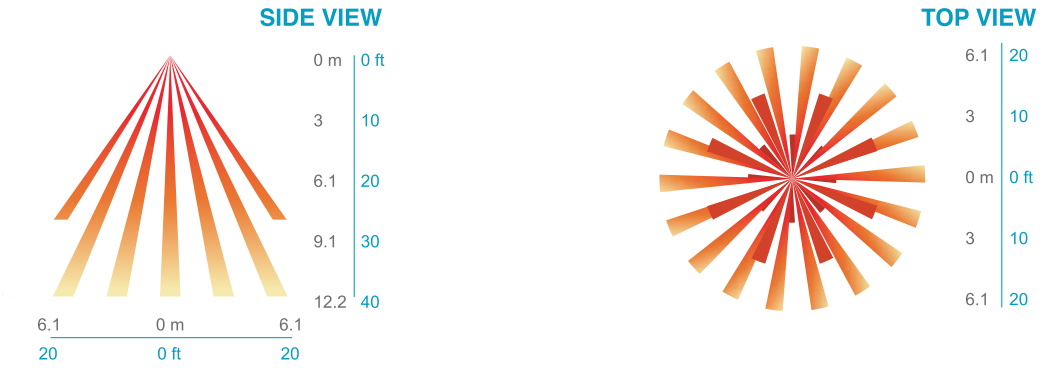
Networked Control (NLTAIR2)

nLight® AIR is a wireless lighting controls platform that allows for seamless integration of both indoor and outdoor luminaires. Five-tier security architecture, 900 MHz wireless communication and app (CLAIRITY™ Pro) based configurability combined together make nLight® AIR a secure, reliable and easy to use platform.

PIR



PIRH



Motion/Ambient Sensor Default Settings

Option	Dim Level	High Level (when triggered	Photocell Operation	Motion Time Delay	Ramp-down Time	Ramp-up Time
PIR or PIRH	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 5fc	5 min	5 min	Motion - 3 sec Photocell - 45 sec
PIR1FC3V, PIRH1FC3V	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 1fc	5 min	5 min	Motion - 3 sec Photocell - 45 sec
NLTAIR2 PIR, NLTAIR2 PIRH (out of box)	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 5fc	7.5 min	5 min	Motion - 3 sec Photocell - 45 sec

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Mounting, Options & Accessories

NLTAIR2 PIR – nLight AIR Motion/Ambient Sensor

D = 8"

H = 11"

W = 18"

PBBW – Surface-Mounted Back Box
Use when there is no junction box available.

D = 1.75"

H = 9"

W = 18"

AWS – 3/8inch Architectural Wall Spacer

D = 0.38"

H = 4.4"

W = 7.5"

FEATURES & SPECIFICATIONS

INTENDED USE
Common architectural look, with clean rectilinear shape, of the WDGE LED was designed to blend with any type of construction, whether it be tilt-up, frame or brick. Applications include commercial offices, warehouses, hospitals, schools, malls, restaurants, and other commercial buildings.

CONSTRUCTION
The single-piece die-cast aluminum housing to optimize thermal transfer from the light engine and promote long life. The driver is mounted in direct contact with the casting for a low operating temperature and long life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP65 rating for the luminaire.

FINISH
Exterior painted parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Standard Super Durable colors include dark bronze, black, natural aluminum, sandstone and white. Available in textured and non-textured finishes.

OPTICS
Individually formed acrylic lenses are engineered for superior application efficiency which maximizes the light in the areas where it is most needed. Light engines are available in 3000 K, 4000 K or 5000 K configurations. The WDGE LED has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL
Light engine consists of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L92/100,000 hours at 25°C). The electronic driver has a power factor of >90%, THD <20%. Luminaire comes with built in 6kV surge protection, which meets a minimum Category C low exposure (per ANSI/IEEE C62.41.2). Fixture ships standard with 0-10v dimmable driver.

INSTALLATION
A universal mounting plate with integral mounting support arms allows the fixture to hinge down for easy access while making wiring connections. The 3/8" Architectural Wall Spacer (AWS) can be used to create a floating appearance or to accommodate small imperfections in the wall surface. The ICW option can be used to mount the luminaire inverted for indirect lighting in dry and damp locations. Design can withstand up to a 1.5 G vibration load rating per ANSI C136.31.

LISTINGS
CSA certified to U.S. and Canadian standards. Light engines are IP66 rated; luminaire is IP65 rated. PIR options are rated for wet location. Rated for -40°C minimum ambient. DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified. International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature and SRM mounting only.

BUY AMERICAN
Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY
5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

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IES ROAD REPORT
PHOTOMETRIC FILENAME : WDGE3 LED P1 70CRI RFT 40K (1).IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] ISF 193586P2
[ISSUEDATE] 11/5/2019
[TESTLAB] ACUITY BRANDS LIGHTING, DECATUR LAB
[MANUFAC] Lithonia Lighting
[LUMCAT] WDGE3 LED P1 70CRI RFT 40K
[LUMINAIRE] WDGE3 LED WITH P1 - PERFORMANCE PACKAGE, 4000K, 70CRI, FORWARD THROW OPTIC
[DISTRIBUTION] TYPE IV, SHORT, BUG RATING: B1 - U0 - G2
[_TOTALLUMINAIRELUMENS] 7592
[_INPUTWATTAGE] 51.1717
[_MOUNTING] WALL MOUNT
[_PHYSICALDIMENSIONS] 1.5, 0.667, 0.75
[_PRODUCTID] aa2e93a0-9b33-4a0a-81c5-a052bc0b7aba
[_SERIES] WDGE3
[_SERIESID] 993533

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7592
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	148
Total Luminaire Watts	51.1717
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3659.3
Maximum Candela Angle	27.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	3659.3
Maximum Candela Angle (<90 Degrees Vertical)	27.5H 67.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	812.512 (10.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : WDGE3 LED P1 70CRI RFT 40K (1).IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	751.9	N.A.	9.9
FM - Front-Medium (30-60)	2838.4	N.A.	37.4
FH - Front-High (60-80)	2279.1	N.A.	30.0
FVH - Front-Very High (80-90)	46.1	N.A.	0.6
BL - Back-Low (0-30)	380.2	N.A.	5.0
BM - Back-Medium (30-60)	904.9	N.A.	11.9
BH - Back-High (60-80)	365.9	N.A.	4.8
BVH - Back-Very High (80-90)	25.4	N.A.	0.3
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	7591.9	N.A.	100.0
BUG Rating	B1-U0-G2		

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Calculations based on published IES Methods and recommendations, values rounded for display purposes.
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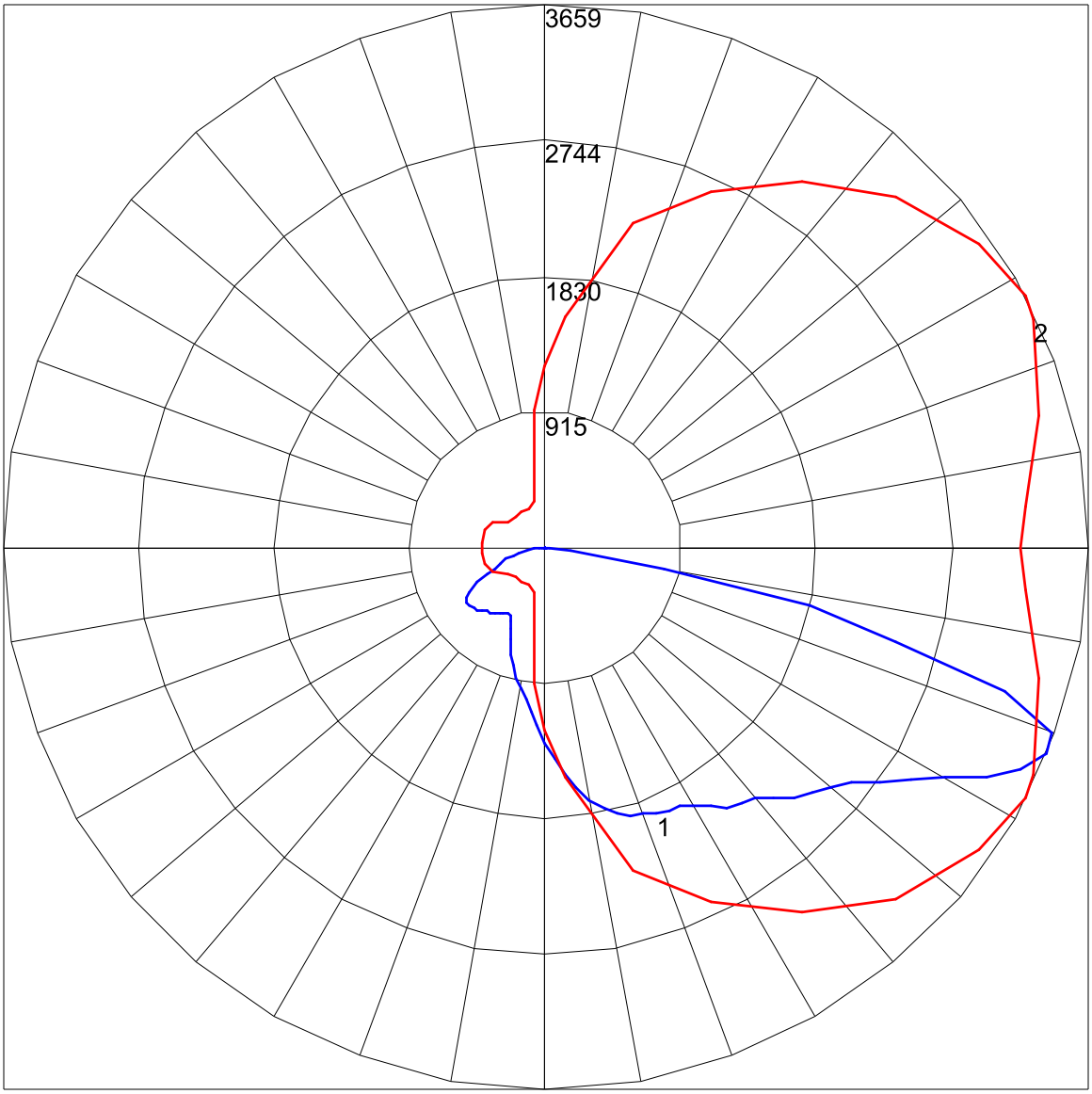
IES ROAD REPORT
PHOTOMETRIC FILENAME : WDGE3 LED P1 70CRI RFT 40K (1).IES

POLAR GRAPH



Maximum Candela = 3659.3 Located At Horizontal Angle = 27.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (27.5 - 207.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

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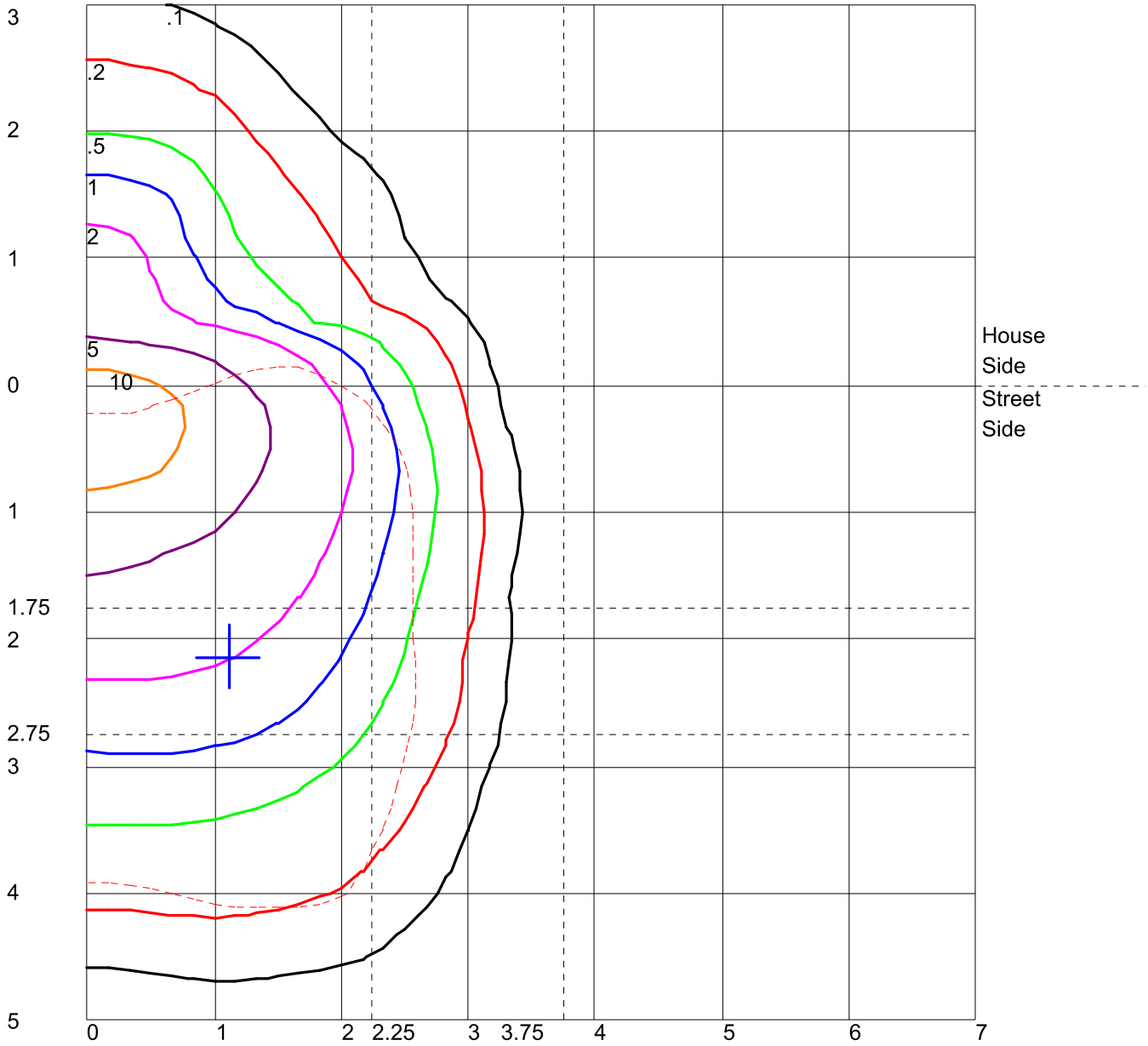
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : WDGE3 LED P1 70CRI RFT 40K (1).IES

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



Distance In Units Of Mounting Height
Values Based On 10 Foot Mounting Height
1/2 Maximum Candela Trace Shown As Dashed Curve
(+) = Maximum Candela Point

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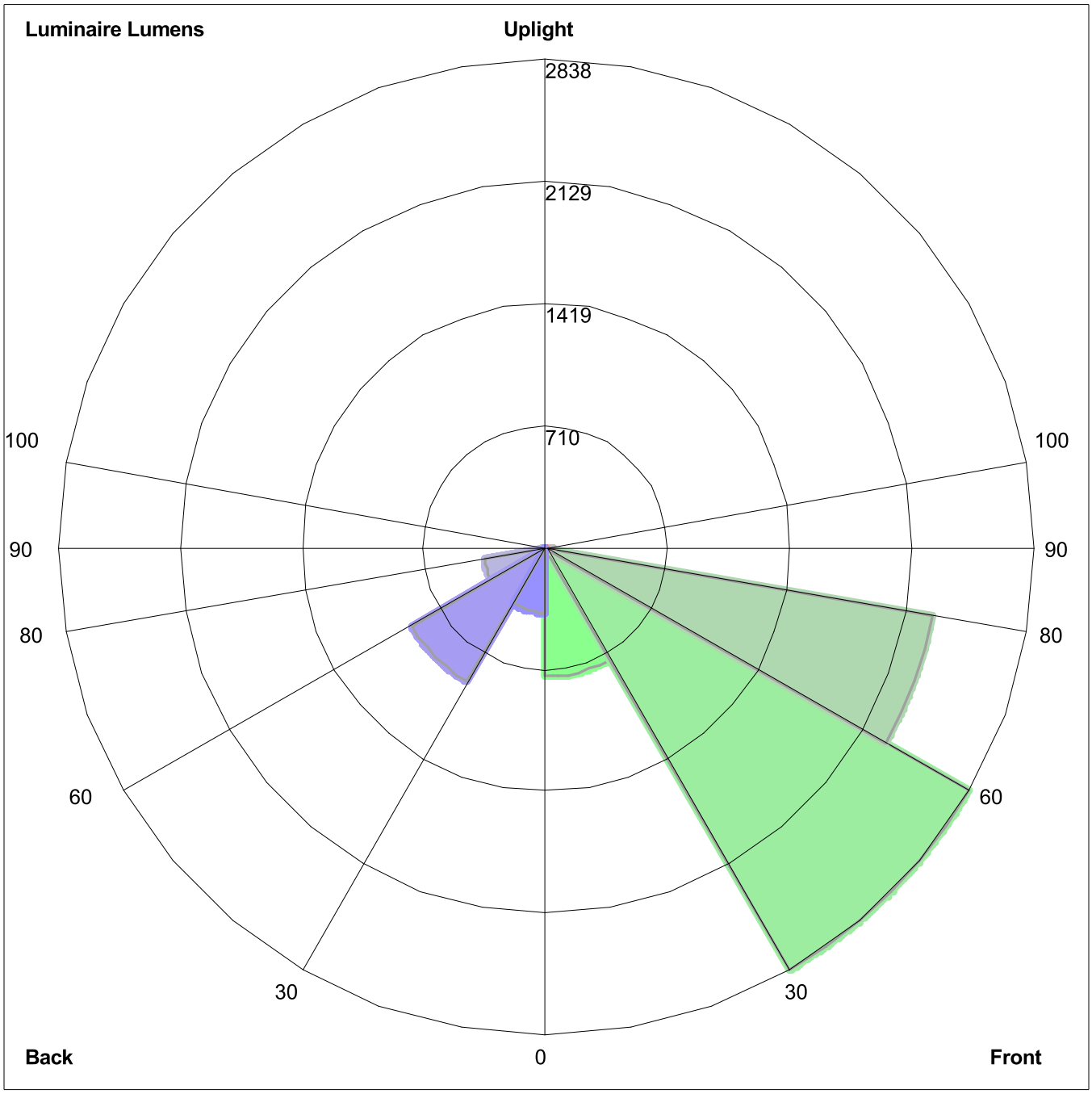
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : WDGE3 LED P1 70CRI RFT 40K (1).IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=751.9, Medium=2838.4, High=2279.1, Very High=46.1
Back: Low=380.2, Medium=904.9, High=365.9, Very High=25.4
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G2

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

D-Series Size 0
LED Area Luminaire

Catalog Number

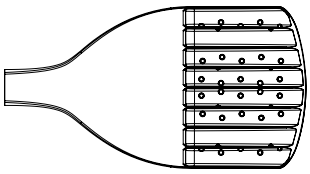
Notes

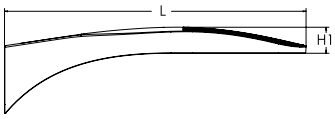
Type TYPE OWD

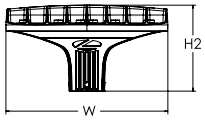
Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

EPA:	0.44 ft² (0.04 m²)
Length:	26.18" (66.5 cm)
Width:	14.06" (35.7 cm)
Height H1:	2.26" (5.7 cm)
Height H2:	7.46" (18.9 cm)
Weight:	23 lbs (10.4 kg)







Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications, with typical energy savings of 70% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: DSX0 LED P6 40K 70CRI T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX0 LED

Series	LEDs	Color temperature[2]	Color Rendering Index[2]	Distribution	Voltage	Mounting
DSX0 LED	**Forward optics** P1 P5 P2 P6 P3 P7 P4 **Rotated optics** P10[1] P12[1] P11[1] P13[1]	(this section 70CRI only) 30K 3000K 40K 4000K 50K 5000K (this section 80CRI only, extended lead times apply) 27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K 5000K	70CRI 70CRI 70CRI 80CRI 80CRI 80CRI 80CRI 80CRI	AFR Automotive front row T1S Type I short T2M Type II medium T3M Type III medium T3LG Type III low glare[3] T4M Type IV medium T4LG Type IV low glare[3] TFTM Forward throw medium T5M Type V medium T5LG Type V low glare T5W Type V wide BLC3 Type III backlight control[3] BLC4 Type IV backlight control[3] LCCO Left corner cutoff[3] RCCO Right corner cutoff[3]	MVOLT (120V-277V)[4] HVOLT (347V-480V)[5,6] XVOLT (277V-480V)[7,8]	**Shipped included** SPA Square pole mounting (#8 drilling, 3.5" min. SQ pole) RPA Round pole mounting (#8 drilling, 3" min. RND pole) SPA5 Square pole mounting (#5 drilling. 3" min. SQ pole)[9] RPA5 Round pole mounting (#5 drilling, 3" min. RND pole)[9] SPA8N Square narrow pole mounting (#8 drilling, 3" min. SQ pole) WBA Wall bracket[10] MA Mast arm adapter (mounts on 2 3/8" OD horizontal tenon)

Control options

Shipped installed

NLTAIR2 PIRHN nLight AIR gen 2 enabled with bi-level motion / ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc.[11,12,18,19]

PIR High/low, motion/ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc[13,18,19]

PER NEMA twist-lock receptacle only (controls ordered separate)[14]

PER5 Five-pin receptacle only (controls ordered separate)[14,19]

PER7 Seven-pin receptacle only (controls ordered separate)[14,19]

FAO Field adjustable output[15,19]

BL30 Bi-level switched dimming, 30%[16,19]

BL50 Bi-level switched dimming, 50%[16,19]

DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately)[17]

Other options

Shipped installed

HS Houseside shield (black finish standard)[20]

L90 Left rotated optics[1]

R90 Right rotated optics[1]

CCE Coastal Construction[21]

HA 50°C ambient operation[22]

Shipped separately

EGSR External Glare Shield (reversible, field install required, matches housing finish)

BSDB Bird Spikes (field install required)

Finish *(required)*

DDBXD Dark Bronze
DBLXD Black
DNAXD Natural Aluminum
DWHXD White
DDBTXD Textured dark bronze
DBLBXD Textured black
DNATXD Textured natural aluminum
DWHGXD Textured white

TBD

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Ordering Information

Accessories

Ordered and shipped separately.

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) [23]
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) [23]
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) [23]
DSHORT SBK	Shorting cap [23]
DSX0HS P#	House-side shield (enter package number P1-7, P10-13 in place of #)
DSXRPA (FINISH)	Round pole adapter (#8 drilling, specify finish)
DSXRPA5 (FINISH)	Round pole adapter #5 drilling (specify finish)
DSXSPA5 (FINISH)	Square pole adapter #5 drilling (specify finish)
DSX0EGSR (FINISH)	External glare shield (specify finish)
DSX0BSDB (FINISH)	Bird spike deterrent bracket (specify finish)

NOTES
1 Rotated optics available with packages P10, P11, P12 and P13. Must be combined with option L90 or R90.
2 30K, 40K, and 50K available in 70CRI and 80CRI. 27K and 35K only available with 80CRI. Contact Technical Support for other possible combinations.
3 T3LG, T4LG, BLC3, BLC4, LCCO, RCCO not available with option HS.
4 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
5 HVOLT driver operates on any line voltage from 347-480V (50/60 Hz).
6 HVOLT not available with package P1, P2 and P10 when combined with option NLTAIR2 PIRHN or option PIR.
7 XVOLT operates with any voltage between 277V and 480V (50/60 Hz).
8 XVOLT not available in packages P1, P2 or P10.
9 SPA5 and RPA5 for use with #5 drilling only (Not for use with #8 drilling).
10 WBA cannot be combined with Type 5 distributions plus photocell (PER).
11 NLTAIR2 and PIRHN must be ordered together. For more information on nLight Air 2.
12 NLTAIR2 PIRHN not available with other controls including PIR, PER, PER5, PER7, FAO, BL30, BL50 and DMG. NLTAIR2 PIRHN not available with P1, P2 and P10 using HVOLT. NLTAIR2 PIRHN not available with P1, P2 and P10 using XVOLT.
13 PIR not available with NLTAIR2, PER, PER5, PER7, FAO BL30, BL50 and DMG. PIR not available with P1, P2 and P10 using HVOLT. PIR not available with P1, P2 and P10 using XVOLT.
14 PER/PER5/PER7 not available with NLTAIR2, PIR, BL30, BL50. Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included.
15 FAO not available with other dimming control options NLTAIR2 PIRHN, PIR, PER5, PER7, BL30, BL50, or DMG.
16 BL30 and BL50 are not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, FAO and DMG.
17 DMG not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50 and FAO.
18 Reference Motion Sensor Default Settings table on page 4 to see functionality.
19 Reference Controls Options table on page 4.
20 Option HS not available with T3LG, T4LG, BLC3, BLC4, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
21 CCE option not available with option BS and EGSR. Contact Technical Support for availability.
22 Option HA not available with performance packages P6, P7, P12 and P13.
23 Requires luminaire to be specified with PER, PER5 or PER7 option. See Controls Table on page 4.

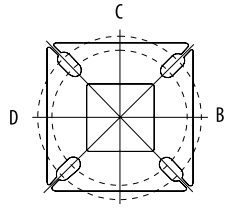
Shield Accessories

External Glare Shield (EGSR)

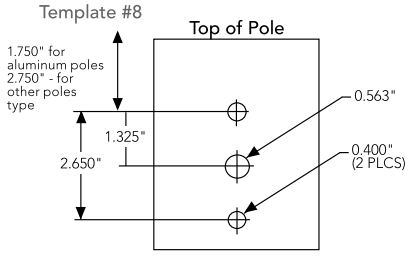
House Side Shield (HS)

Drilling

HANDHOLE ORIENTATION
(from top of pole)



Template #8



Tenon Mounting Slipfitter

Tenon O.D.	Mounting	Single Unit	2 @ 180	2 @ 90	3 @ 90	3 @120	4 @ 90
2-3/8"	RPA	AS3-5 190	AS3-5 280	AS3-5 290	AS3-5 390	AS3-5 320	AS3-5 490
2-7/8"	RPA	AST25-190	AST25-280	AST25-290	AST25-390	AST25-320	AST25-490
4"	RPA	AST35-190	AST35-280	AST35-290	AST35-390	AST35-320	AST35-490

Mounting Option	Drilling Template	Single	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
Head Location		Side B	Side B & D	Side B & C	Side B, C & D	Round Pole Only	Side A, B, C & D
Drill Nomenclature	#8	DM19AS	DM28AS	DM29AS	DM39AS	DM32AS	DM49AS
		Minimum Acceptable Outside Pole Dimension					
SPA	#8	3.5"	3.5"	3.5"	3.5"		3.5"
RPA	#8	3"	3"	3"	3"	3"	3"
SPA5	#5	3"	3"	3"	3"		3"
RPA5	#5	3"	3"	3"	3"	3"	3"
SPA8N	#8	3"	3"	3"	3"		3"

DSX0 Area Luminaire - EPA

*Includes luminaire and integral mounting arm. Other tenons, arms, brackets or other accessories are not included in this EPA data.

Fixture Quantity & Mounting Configuration	Single DM19	2 @ 180 DM28	2 @ 90 DM29	3 @ 90 DM39	3 @ 120 DM32	4 @ 90 DM49
Mounting Type						
DSX0 with SPA	0.44	0.88	0.96	1.18	---	1.16
DSX0 with SPA5, SPA8N	0.51	1.02	1.06	1.26	---	1.29
DSX0 with RPA, RPA5	0.51	1.02	1.06	1.26	1.24	1.29
DSX0 with MA	0.64	1.28	1.24	1.67	1.70	1.93

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Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's homepage.

Isofootcandle plots for the DSX0 LED P7 40K 70CRI. Distances are in units of mounting height (20').

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Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.04
5°C	41°F	1.04
10°C	50°F	1.03
15°C	50°F	1.02
20°C	68°F	1.01
25°C	**77°C**	**1.00**
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	Lumen Maintenance Factor
0	1.00
25,000	0.94
50,000	0.89
100,000	0.80

FAO Dimming Settings

FAO Position	% Wattage	% Lumen Output
8	100%	100%
7	93%	95%
6	80%	85%
5	66%	73%
4	54%	61%
3	41%	49%
2	29%	36%
1	15%	20%

*Note: Calculated values are based on original performance package data. When calculating new values for given FAO position, use published values for each package based on input watts and lumens by optic type.

Electrical Load

					Current (A)					
	Performance Package	LED Count	Drive Current (mA)	Wattage	120V	208V	240V	277V	347V	480V
Forward Optics (Non-Rotated)	P1	20	530	34	0.28	0.16	0.14	0.12	0.10	0.07
	P2	20	700	45	0.38	0.22	0.19	0.16	0.13	0.09
	P3	20	1050	69	0.57	0.33	0.29	0.25	0.20	0.14
	P4	20	1400	94	0.78	0.45	0.39	0.34	0.27	0.19
	P5	40	700	89	0.75	0.43	0.38	0.33	0.26	0.19
	P6	40	1050	136	1.14	0.66	0.57	0.49	0.39	0.29
	P7	40	1300	170	1.42	0.82	0.71	0.62	0.49	0.36
Rotated Optics (Requires L90 or R90)	P10	30	530	51	0.42	0.24	0.21	0.18	0.15	0.11
	P11	30	700	67	0.57	0.33	0.28	0.25	0.20	0.14
	P12	30	1050	103	0.86	0.50	0.43	0.37	0.30	0.22
	P13	30	1300	129	1.07	0.62	0.54	0.46	0.37	0.27

LED Color Temperature / Color Rendering Multipliers

	70 CRI		80CRI		90CRI	
	Lumen Multiplier	Availability	Lumen Multiplier	Availability	Lumen Multiplier	Availability
5000K	102%	Standard	92%	Extended lead-time	71%	(see note)
4000K	100%	Standard	92%	Extended lead-time	67%	(see note)
3500K	100%	(see note)	90%	Extended lead-time	63%	(see note)
3000K	96%	Standard	87%	Extended lead-time	61%	(see note)
2700K	94%	(see note)	85%	Extended lead-time	57%	(see note)

Note: Some LED types are available as per special request. Contact Technical Support for more information.

Motion Sensor Default Settings

Option	Unoccupied Dimmed Level	High Level (when occupied)	Photocell Operation	Dwell Time	Ramp-up Time	Dimming Fade Rate
PIR	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min
NLTAIR2 PIRHN	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min

Controls Options

Nomenclature	Description	Functionality	Primary control device	Notes
FAO	Field adjustable output device installed inside the luminaire; wired to the driver dimming leads.	Allows the luminaire to be manually dimmed, effectively trimming the light output.	FAO device	Cannot be used with other controls options that need the 0-10V leads
DS (not available on DSX0)	Drivers wired independently for 50/50 luminaire operation	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drivers	Requires two separately switched circuits. Consider nLight AIR as a more cost effective alternative.
PER5 or PER7	Twist-lock photocell receptacle	Compatible with standard twist-lock photocells for dusk to dawn operation, or advanced control nodes that provide 0-10V dimming signals.	Twist-lock photocells such as DLL Elite or advanced control nodes such as ROAM.	Pins 4 & 5 to dimming leads on driver, Pins 6 & 7 are capped inside luminaire. Cannot be used with other controls options that need the 0-10V leads.
PIR	Motion sensor with integral photocell. Sensor suitable for 8' to 40' mounting height.	Luminaires dim when no occupancy is detected.	Acuity Controls rSBG	Cannot be used with other controls options that need the 0-10V leads.
NLTAIR2 PIRHN	nLight AIR enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor over-ride when wirelessly connected to the nLight Eclypse.	nLight Air rSBG	nLight AIR sensors can be programmed and commissioned from the ground using the CIAIRity Pro app. Cannot be used with other controls options that need the 0-10V leads.
BL30 or BL50	Integrated bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output	BLC device provides input to 0-10V dimming leads on all drivers providing either 100% or dimmed (30% or 50%) control by a secondary circuit	BLC UVOLT1	BLC device is powered off the 0-10V dimming leads, thus can be used with any input voltage from 120 to 480V

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Performance Data

Lumen Output

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Forward Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P1	33W	20	530	T1S	4,906	1	0	1	148	5,113	1	0	1	154	5,213	1	0	1	157
				T2M	4,545	1	0	2	137	4,736	1	0	2	143	4,829	1	0	2	145
				T3M	4,597	1	0	2	138	4,791	1	0	2	144	4,885	1	0	2	147
				T3LG	4,107	1	0	1	124	4,280	1	0	1	129	4,363	1	0	1	131
				T4M	4,666	1	0	2	141	4,863	1	0	2	146	4,957	1	0	2	149
				T4LG	4,244	1	0	1	128	4,423	1	0	1	133	4,509	1	0	1	136
				TFTM	4,698	1	0	2	141	4,896	1	0	2	147	4,992	1	0	2	150
				T5M	4,801	3	0	1	145	5,003	3	0	1	151	5,101	3	0	1	154
				T5W	4,878	3	0	1	147	5,084	3	0	2	153	5,183	3	0	2	156
				T5LG	4,814	2	0	1	145	5,018	2	0	1	151	5,115	2	0	1	154
				BLC3	3,344	0	0	1	101	3,485	0	0	1	105	3,553	0	0	1	107
				BLC4	3,454	0	0	2	104	3,599	0	0	2	108	3,670	0	0	2	111
				RCCO	3,374	0	0	1	102	3,517	0	0	1	106	3,585	0	0	1	108
				LCCO	3,374	0	0	1	102	3,517	0	0	1	106	3,585	0	0	1	108
				AFR	4,906	1	0	1	148	5,113	1	0	1	154	5,213	1	0	1	157
P2	45W	20	700	T1S	6,328	1	0	1	140	6,595	1	0	1	146	6,724	1	0	1	149
				T2M	5,862	1	0	2	130	6,109	1	0	2	135	6,228	1	0	2	138
				T3M	5,930	1	0	3	131	6,180	1	0	3	137	6,301	1	0	3	140
				T3LG	5,297	1	0	1	117	5,521	1	0	1	122	5,628	1	0	1	125
				T4M	6,018	1	0	3	133	6,272	1	0	3	139	6,395	1	0	3	142
				T4LG	5,474	1	0	1	121	5,705	1	0	1	126	5,816	1	0	1	129
				TFTM	6,060	1	0	3	134	6,316	1	0	3	140	6,439	1	0	3	143
				T5M	6,192	3	0	1	137	6,453	3	0	2	143	6,579	3	0	2	146
				T5W	6,293	3	0	2	139	6,558	3	0	2	145	6,686	3	0	2	148
				T5LG	6,210	2	0	1	138	6,472	3	0	1	143	6,598	3	0	1	146
				BLC3	4,313	0	0	2	96	4,495	0	0	2	100	4,583	0	0	2	102
				BLC4	4,455	0	0	2	99	4,643	0	0	2	103	4,733	0	0	2	105
				RCCO	4,352	0	0	2	96	4,536	0	0	2	100	4,624	0	0	2	102
				LCCO	4,352	0	0	2	96	4,536	0	0	2	100	4,624	0	0	2	102
				AFR	6,328	1	0	1	140	6,595	1	0	1	146	6,724	1	0	1	149
P3	69W	20	1050	T1S	9,006	1	0	2	131	9,386	1	0	2	136	9,569	1	0	2	139
				T2M	8,343	2	0	3	121	8,694	2	0	3	126	8,864	2	0	3	129
				T3M	8,439	2	0	3	122	8,795	2	0	3	128	8,967	2	0	3	130
				T3LG	7,539	1	0	2	109	7,857	1	0	2	114	8,010	1	0	2	116
				T4M	8,565	2	0	3	124	8,926	2	0	3	129	9,100	2	0	3	132
				T4LG	7,790	1	0	2	113	8,119	1	0	2	118	8,277	1	0	2	120
				TFTM	8,624	1	0	3	125	8,988	1	0	3	130	9,163	2	0	3	133
				T5M	8,812	3	0	2	128	9,184	4	0	2	133	9,363	4	0	2	136
				T5W	8,955	4	0	2	130	9,333	4	0	2	135	9,515	4	0	2	138
				T5LG	8,838	3	0	1	128	9,211	3	0	1	134	9,390	3	0	1	136
				BLC3	6,139	0	0	2	89	6,398	0	0	2	93	6,522	0	0	2	95
				BLC4	6,340	0	0	3	92	6,607	0	0	3	96	6,736	0	0	3	98
				RCCO	6,194	1	0	2	90	6,455	1	0	2	94	6,581	1	0	2	95
				LCCO	6,194	1	0	2	90	6,455	1	0	2	94	6,581	1	0	2	95
				AFR	9,006	1	0	2	131	9,386	1	0	2	136	9,569	1	0	2	139
P4	93W	20	1400	T1S	11,396	1	0	2	122	11,877	1	0	2	128	12,109	2	0	2	130
				T2M	10,557	2	0	3	113	11,003	2	0	3	118	11,217	2	0	3	121
				T3M	10,680	2	0	3	115	11,130	2	0	3	120	11,347	2	0	3	122
				T3LG	9,540	1	0	2	103	9,942	1	0	2	107	10,136	1	0	2	109
				T4M	10,839	2	0	3	117	11,296	2	0	3	121	11,516	2	0	4	124
				T4LG	9,858	1	0	2	106	10,274	1	0	2	110	10,474	1	0	2	113
				TFTM	10,914	2	0	3	117	11,374	2	0	3	122	11,596	2	0	3	125
				T5M	11,152	4	0	2	120	11,622	4	0	2	125	11,849	4	0	2	127
				T5W	11,332	4	0	3	122	11,811	4	0	3	127	12,041	4	0	3	129
				T5LG	11,184	3	0	1	120	11,656	3	0	2	125	11,883	3	0	2	128
				BLC3	7,768	0	0	2	83	8,096	0	0	2	87	8,254	0	0	2	89
				BLC4	8,023	0	0	3	86	8,362	0	0	3	90	8,524	0	0	3	92
				RCCO	7,838	1	0	2	84	8,169	1	0	2	88	8,328	1	0	2	90
				LCCO	7,838	1	0	2	84	8,169	1	0	2	88	8,328	1	0	2	90
				AFR	11,396	1	0	2	122	11,877	1	0	2	128	12,109	2	0	2	130

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Performance Data

Lumen Output

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Forward Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P5	90W	40	700	T1S	12,380	2	0	2	137	12,902	2	0	2	143	13,154	2	0	2	146
				T2M	11,468	2	0	3	127	11,952	2	0	3	133	12,185	2	0	3	135
				T3M	11,601	2	0	3	129	12,091	2	0	3	134	12,326	2	0	4	137
				T3LG	10,363	2	0	2	115	10,800	2	0	2	120	11,011	2	0	2	122
				T4M	11,774	2	0	4	131	12,271	2	0	4	136	12,510	2	0	4	139
				T4LG	10,709	1	0	2	119	11,160	2	0	2	124	11,378	2	0	2	126
				TFTM	11,856	2	0	3	132	12,356	2	0	4	137	12,596	2	0	4	140
				T5M	12,114	4	0	2	134	12,625	4	0	2	140	12,871	4	0	2	143
				T5W	12,310	4	0	3	137	12,830	4	0	3	142	13,080	4	0	3	145
				T5LG	12,149	3	0	2	135	12,662	3	0	2	141	12,908	3	0	2	143
				BLC3	8,438	0	0	2	94	8,794	0	0	2	98	8,966	0	0	2	99
				BLC4	8,715	0	0	3	97	9,083	0	0	3	101	9,260	0	0	3	103
				RCCO	8,515	1	0	2	94	8,874	1	0	2	98	9,047	1	0	2	100
				LCCO	8,515	1	0	2	94	8,874	1	0	2	98	9,047	1	0	2	100
				AFR	12,380	2	0	2	137	12,902	2	0	2	143	13,154	2	0	2	146
P6	137W	40	1050	T1S	17,545	2	0	3	128	18,285	2	0	3	133	18,642	2	0	3	136
				T2M	16,253	3	0	4	119	16,939	3	0	4	124	17,269	3	0	4	126
				T3M	16,442	2	0	4	120	17,135	3	0	4	125	17,469	3	0	4	128
				T3LG	14,687	2	0	2	107	15,306	2	0	2	112	15,605	2	0	2	114
				T4M	16,687	2	0	4	122	17,391	3	0	5	127	17,730	3	0	5	129
				T4LG	15,177	2	0	2	111	15,817	2	0	2	115	16,125	2	0	2	118
				TFTM	16,802	2	0	4	123	17,511	2	0	4	128	17,852	2	0	5	130
				T5M	17,168	4	0	2	125	17,893	5	0	3	131	18,241	5	0	3	133
				T5W	17,447	5	0	3	127	18,183	5	0	3	133	18,537	5	0	3	135
				T5LG	17,218	4	0	2	126	17,944	4	0	2	131	18,294	4	0	2	134
				BLC3	11,959	0	0	3	87	12,464	0	0	3	91	12,707	0	0	3	93
				BLC4	12,352	0	0	4	90	12,873	0	0	4	94	13,124	0	0	4	96
				RCCO	12,067	1	0	3	88	12,576	1	0	3	92	12,821	1	0	3	94
				LCCO	12,067	1	0	3	88	12,576	1	0	3	92	12,821	1	0	3	94
				AFR	17,545	2	0	3	128	18,285	2	0	3	133	18,642	2	0	3	136
P7	171W	40	1300	T1S	20,806	2	0	3	122	21,683	2	0	3	127	22,106	2	0	3	129
				T2M	19,273	3	0	4	113	20,086	3	0	4	118	20,478	3	0	4	120
				T3M	19,497	3	0	5	114	20,319	3	0	5	119	20,715	3	0	5	121
				T3LG	17,416	2	0	2	102	18,151	2	0	2	106	18,504	2	0	2	108
				T4M	19,787	3	0	5	116	20,622	3	0	5	121	21,024	3	0	5	123
				T4LG	17,997	2	0	2	105	18,756	2	0	2	110	19,121	2	0	2	112
				TFTM	19,924	3	0	5	117	20,765	3	0	5	122	21,170	3	0	5	124
				T5M	20,359	5	0	3	119	21,217	5	0	3	124	21,631	5	0	3	127
				T5W	20,689	5	0	3	121	21,561	5	0	3	126	21,982	5	0	3	129
				T5LG	20,418	4	0	2	120	21,279	4	0	2	125	21,694	4	0	2	127
				BLC3	14,182	0	0	3	83	14,780	0	0	3	87	15,068	0	0	3	88
				BLC4	14,647	0	0	4	86	15,265	0	0	4	89	15,562	0	0	4	91
				RCCO	14,309	1	0	3	84	14,913	1	0	3	87	15,204	1	0	3	89
				LCCO	14,309	1	0	3	84	14,913	1	0	3	87	15,204	1	0	3	89
				AFR	20,806	2	0	3	122	21,683	2	0	3	127	22,106	2	0	3	129

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Performance Data

Lumen Output

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Rotated Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P10	51W	30	530	T1S	7,399	3	0	3	145	7,711	3	0	3	151	7,862	3	0	3	154
				T2M	6,854	3	0	3	135	7,144	3	0	3	140	7,283	3	0	3	143
				T3M	6,933	3	0	3	136	7,225	3	0	3	142	7,366	3	0	3	145
				T3LG	6,194	2	0	2	122	6,455	2	0	2	127	6,581	2	0	2	129
				T4M	7,036	3	0	3	138	7,333	3	0	3	144	7,476	3	0	3	147
				T4LG	6,399	2	0	2	126	6,669	2	0	2	131	6,799	2	0	2	134
				TFTM	7,086	3	0	3	139	7,385	3	0	3	145	7,529	3	0	3	148
				T5M	7,239	3	0	2	142	7,545	3	0	2	148	7,692	3	0	2	151
				T5W	7,357	3	0	2	145	7,667	3	0	2	151	7,816	4	0	2	154
				T5LG	7,260	3	0	1	143	7,567	3	0	1	149	7,714	3	0	1	152
				BLC3	5,043	3	0	3	99	5,256	3	0	3	103	5,358	3	0	3	105
				BLC4	5,208	3	0	3	102	5,428	3	0	3	107	5,534	3	0	3	109
				RCCO	5,089	0	0	2	100	5,303	0	0	2	104	5,407	0	0	2	106
				LCCO	5,089	0	0	2	100	5,303	0	0	2	104	5,407	0	0	2	106
				AFR	7,399	3	0	3	145	7,711	3	0	3	151	7,862	3	0	3	154
P11	68W	30	700	T1S	9,358	3	0	3	138	9,753	3	0	3	143	9,943	3	0	3	146
				T2M	8,669	3	0	3	127	9,034	3	0	3	133	9,211	3	0	3	135
				T3M	8,768	3	0	3	129	9,138	3	0	3	134	9,316	3	0	3	137
				T3LG	7,833	3	0	3	115	8,164	3	0	3	120	8,323	3	0	3	122
				T4M	8,899	3	0	3	131	9,274	3	0	3	136	9,455	3	0	3	139
				T4LG	8,093	3	0	3	119	8,435	3	0	3	124	8,599	3	0	3	126
				TFTM	8,962	3	0	3	132	9,340	3	0	3	137	9,522	3	0	3	140
				T5M	9,156	4	0	2	135	9,542	4	0	2	140	9,728	4	0	2	143
				T5W	9,304	4	0	2	137	9,696	4	0	2	143	9,885	4	0	2	145
				T5LG	9,182	3	0	1	135	9,569	3	0	1	141	9,756	3	0	1	143
				BLC3	6,378	3	0	3	94	6,647	3	0	3	98	6,777	3	0	3	100
				BLC4	6,587	3	0	3	97	6,865	3	0	3	101	6,999	3	0	3	103
				RCCO	6,436	0	0	2	95	6,707	0	0	2	99	6,838	0	0	2	101
				LCCO	6,436	0	0	2	95	6,707	0	0	2	99	6,838	0	0	2	101
				AFR	9,358	3	0	3	138	9,753	3	0	3	143	9,943	3	0	3	146
P12	103W	30	1050	T1S	13,247	3	0	3	128	13,806	3	0	3	134	14,075	3	0	3	136
				T2M	12,271	4	0	4	119	12,789	4	0	4	124	13,038	4	0	4	126
				T3M	12,412	4	0	4	120	12,935	4	0	4	125	13,187	4	0	4	128
				T3LG	11,089	3	0	3	107	11,556	3	0	3	112	11,782	3	0	3	114
				T4M	12,597	4	0	4	122	13,128	4	0	4	127	13,384	4	0	4	129
				T4LG	11,457	3	0	3	111	11,940	3	0	3	116	12,173	3	0	3	118
				TFTM	12,686	4	0	4	123	13,221	4	0	4	128	13,479	4	0	4	130
				T5M	12,960	4	0	2	125	13,507	4	0	2	131	13,770	4	0	2	133
				T5W	13,170	4	0	3	127	13,726	4	0	3	133	13,994	4	0	3	135
				T5LG	12,998	3	0	2	126	13,546	3	0	2	131	13,810	3	0	2	134
				BLC3	9,029	3	0	3	87	9,409	3	0	3	91	9,593	3	0	3	93
				BLC4	9,324	4	0	4	90	9,718	4	0	4	94	9,907	4	0	4	96
				RCCO	9,110	1	0	2	88	9,495	1	0	2	92	9,680	1	0	2	94
				LCCO	9,110	1	0	2	88	9,494	1	0	2	92	9,680	1	0	2	94
				AFR	13,247	3	0	3	128	13,806	3	0	3	134	14,075	3	0	3	136
P13	129W	30	1300	T1S	15,704	3	0	3	122	16,366	3	0	3	127	16,685	4	0	4	130
				T2M	14,547	4	0	4	113	15,161	4	0	4	118	15,457	4	0	4	120
				T3M	14,714	4	0	4	114	15,335	4	0	4	119	15,634	4	0	4	121
				T3LG	13,145	3	0	3	102	13,700	3	0	3	106	13,967	3	0	3	108
				T4M	14,933	4	0	4	116	15,563	4	0	4	121	15,867	4	0	4	123
				T4LG	13,582	3	0	3	105	14,155	3	0	3	110	14,431	3	0	3	112
				TFTM	15,039	4	0	4	117	15,673	4	0	4	122	15,979	4	0	4	124
				T5M	15,364	4	0	2	119	16,013	4	0	2	124	16,325	4	0	2	127
				T5W	15,613	5	0	3	121	16,272	5	0	3	126	16,589	5	0	3	129
				T5LG	15,409	3	0	2	120	16,059	3	0	2	125	16,372	4	0	2	127
				BLC3	10,703	4	0	4	83	11,155	4	0	4	87	11,372	4	0	4	88
				BLC4	11,054	4	0	4	86	11,520	4	0	4	89	11,745	4	0	4	91
				RCCO	10,800	1	0	2	84	11,256	1	0	2	87	11,475	1	0	3	89
				LCCO	10,800	1	0	2	84	11,255	1	0	2	87	11,475	1	0	3	89
				AFR	15,704	3	0	3	122	16,366	3	0	3	127	16,685	4	0	4	130

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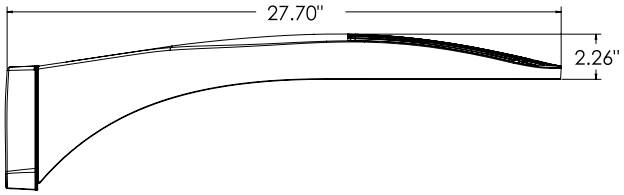
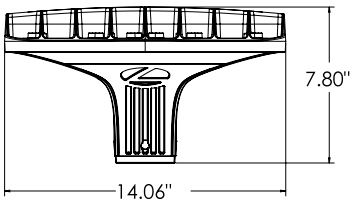
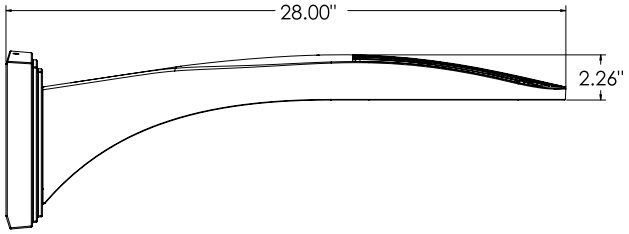
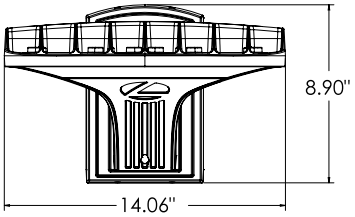
Dimensions



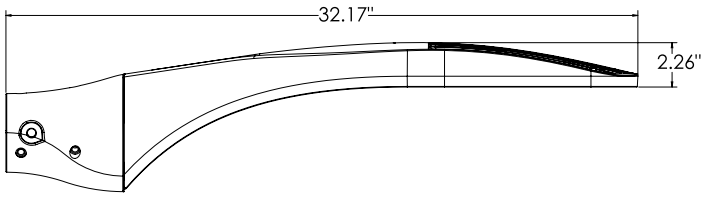


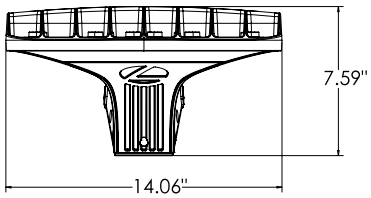
DSX0 with RPA, RPA5, SPA5, SPA8N mount
Weight: 25 lbs





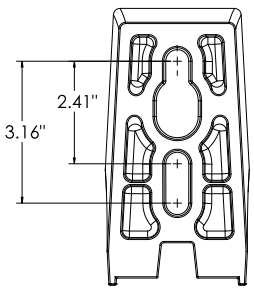
DSX0 with WBA mount
Weight: 27 lb



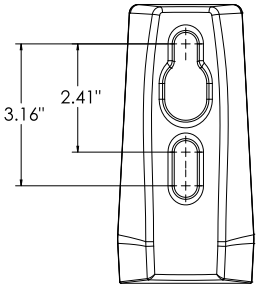


DSX0 with MA mount
Weight: 28 lbs

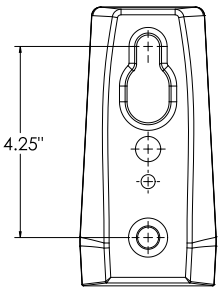
SPA (STANDARD ARM)



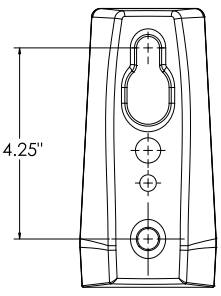
RPA



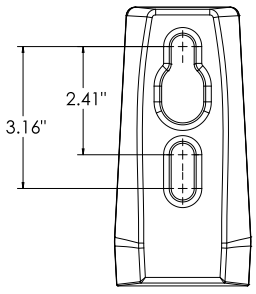
SPA5



RPA5



SPA8N



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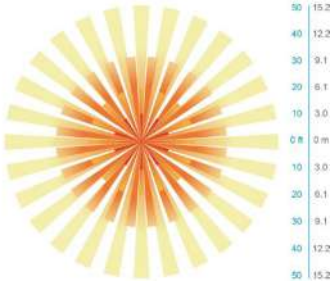
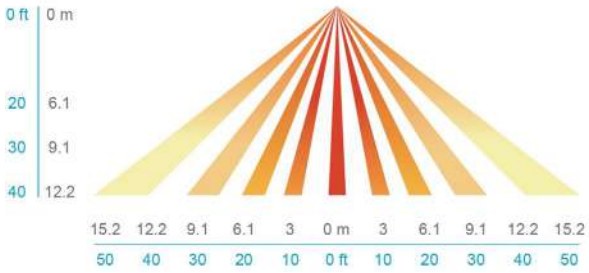
nLight Control - Sensor Coverage and Settings

nLight Sensor Coverage Pattern

NLTAIR2 PIRHN



Top



Side

FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Size 0 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and pedestrian areas.

CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED driver is mounted in direct contact with the casting to promote low operating temperature and long life. Housing driver compartment is completely sealed against moisture and environmental contaminants (IP66). Vibration rated per ANSI C136.31 for 3G. Low EPA (0.44 ft^2) for optimized pole wind loading.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

COASTAL CONSTRUCTION (CCE)

Optional corrosion resistant construction is engineered with added corrosion protection in materials and/or pre-treatment of base material under super durable paint. Provides additional corrosion protection for applications near coastal areas. Finish is salt spray tested to over 5,000 hours per ASTM B117 with scribe rating of 10. Additional lead-times may apply.

OPTICS

Precision-molded proprietary silicone lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in 3000 K, 4000 K or 5000 K (70 CRI) configurations. 80CRI configurations are also available. The D-Series Size 0 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine(s) configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L80/100,000 hours at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

STANDARD CONTROLS

The DSX0 LED area luminaire has a number of control options. DSX Size 0, comes standard with 0-10V dimming driver. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. PIR integrated motion sensor with on-board photocell feature field-adjustable programing and are suitable for mounting heights up to 40 feet. Control option BL features a bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output.

nLIGHT AIR CONTROLS

The DSX0 LED area luminaire is also available with nLight® AIR for the ultimate in wireless control. This powerful controls platform provides out-of-the-box basic motion sensing and photocontrol functionality and is suitable for mounting heights up to 40 feet. Once commissioned using a smartphone and the easy-to-use CLAIRITY app, nLight AIR equipped luminaries can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclypse. Additional information about nLight Air can be found here.

INSTALLATION

Integral mounting arm allows for fast mounting using Lithonia standard #8 drilling and accommodates pole drilling's from 2.41 to 3.12" on center. The standard "SPA" option for square poles and the "RPA" option for round poles use the #8 drilling. For #5 pole drillings, use SPA5 or RPA5. Additional mountings are available including a wall bracket (WBA) and mast arm (MA) option that allows luminaire attachment to a 2 3/8" horizontal mast arm.

LISTINGS

UL listed to meet U.S. and Canadian standards. UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP66 rated. Rated for -40°C minimum ambient.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

WARRANTY

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

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IES ROAD REPORT
PHOTOMETRIC FILENAME : DSX0 LED P1 40K 70CRI TFTM.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] ISF 221269AP5
[ISSUEDATE] 11/10/2022
[TESTLAB] SCALED PHOTOMETRY
[MANUFAC] Lithonia Lighting
[LUMCAT] DSX0 LED P1 40K 70CRI TFTM
[LUMINAIRE] D-Series Size 0 Area Luminaire P1 Performance Package 4000K CCT 70 CRI Forward Throw
[DISTRIBUTION] TYPE IV, SHORT, BUG RATING: B1 - U0 - G2
[_TOTALLUMINAIRELUMENS] 4896
[_INPUTWATTAGE] 33.21
[_LAMPTYPE] LED
[_MOUNTING] OUTDOOR
[_PHYSICALDIMENSIONS] 0.79, 1.14, 0
[_PRODUCTID] 27409f60-042d-413d-9108-2b4c7b4cea1c
[_SERIES] DSX0
[_SERIESID] 596134
[_NOTE] LM-80 DATA AVAILABLE FROM MANUFACTURER FOR SOLID STATE SOURCE

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4896
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	147
Total Luminaire Watts	33.21
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4411.407
Maximum Candela Angle	32.5H 75V
Maximum Candela (<90 Degrees Vertical)	4411.407
Maximum Candela Angle (<90 Degrees Vertical)	32.5H 75V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	2917.769 (59.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : DSX0 LED P1 40K 70CRI TFTM.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	256.4	N.A.	5.2
FM - Front-Medium (30-60)	1276.0	N.A.	26.1
FH - Front-High (60-80)	2220.7	N.A.	45.4
FVH - Front-Very High (80-90)	207.3	N.A.	4.2
BL - Back-Low (0-30)	202.3	N.A.	4.1
BM - Back-Medium (30-60)	431.0	N.A.	8.8
BH - Back-High (60-80)	267.7	N.A.	5.5
BVH - Back-Very High (80-90)	34.5	N.A.	0.7
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	4895.9	N.A.	100.0
BUG Rating	B1-U0-G2		

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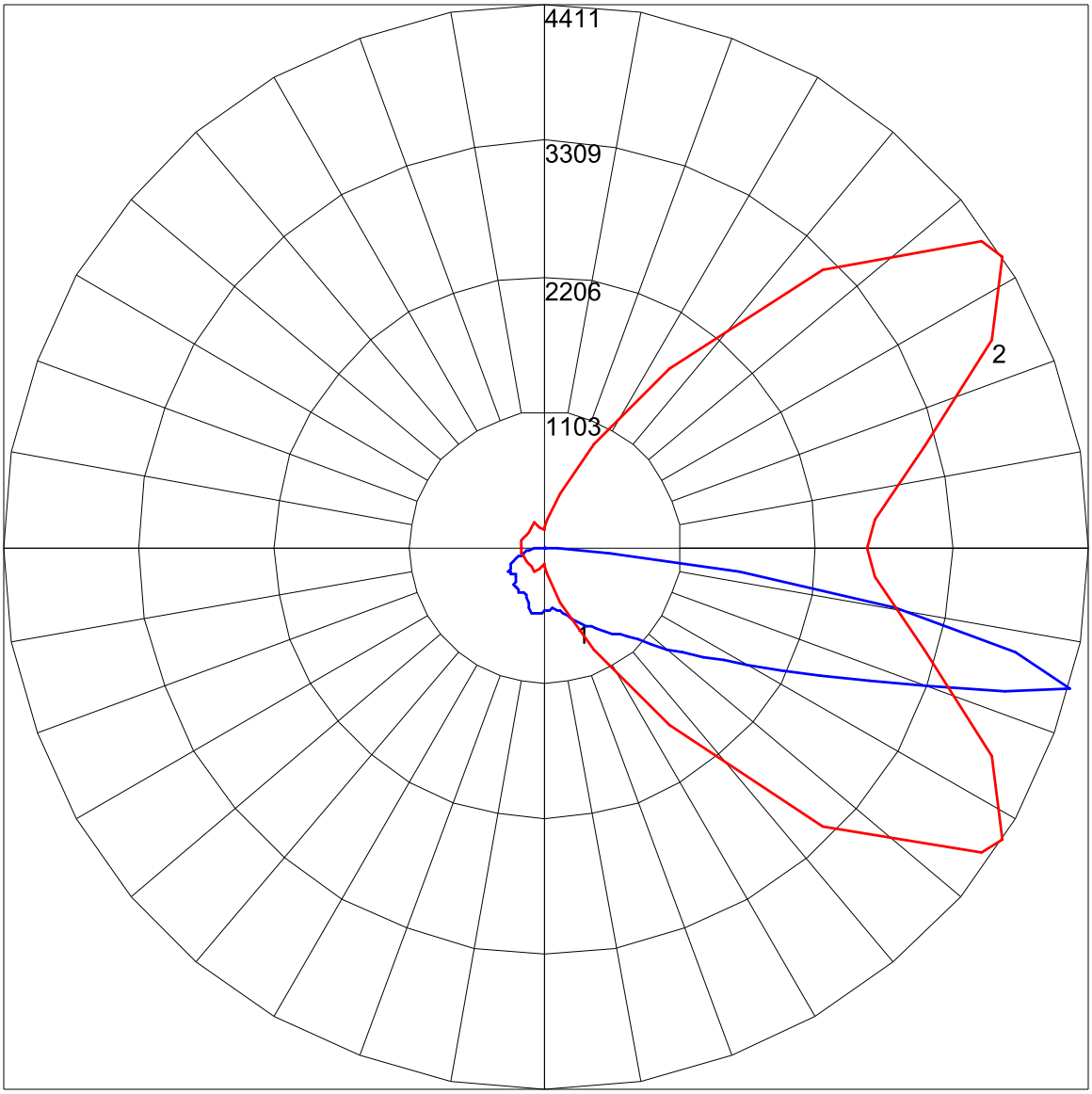
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : DSX0 LED P1 40K 70CRI TFTM.IES

POLAR GRAPH



Maximum Candela = 4411.407 Located At Horizontal Angle = 32.5, Vertical Angle = 75
1 - Vertical Plane Through Horizontal Angles (32.5 - 212.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (75) (Through Max. Cd.)

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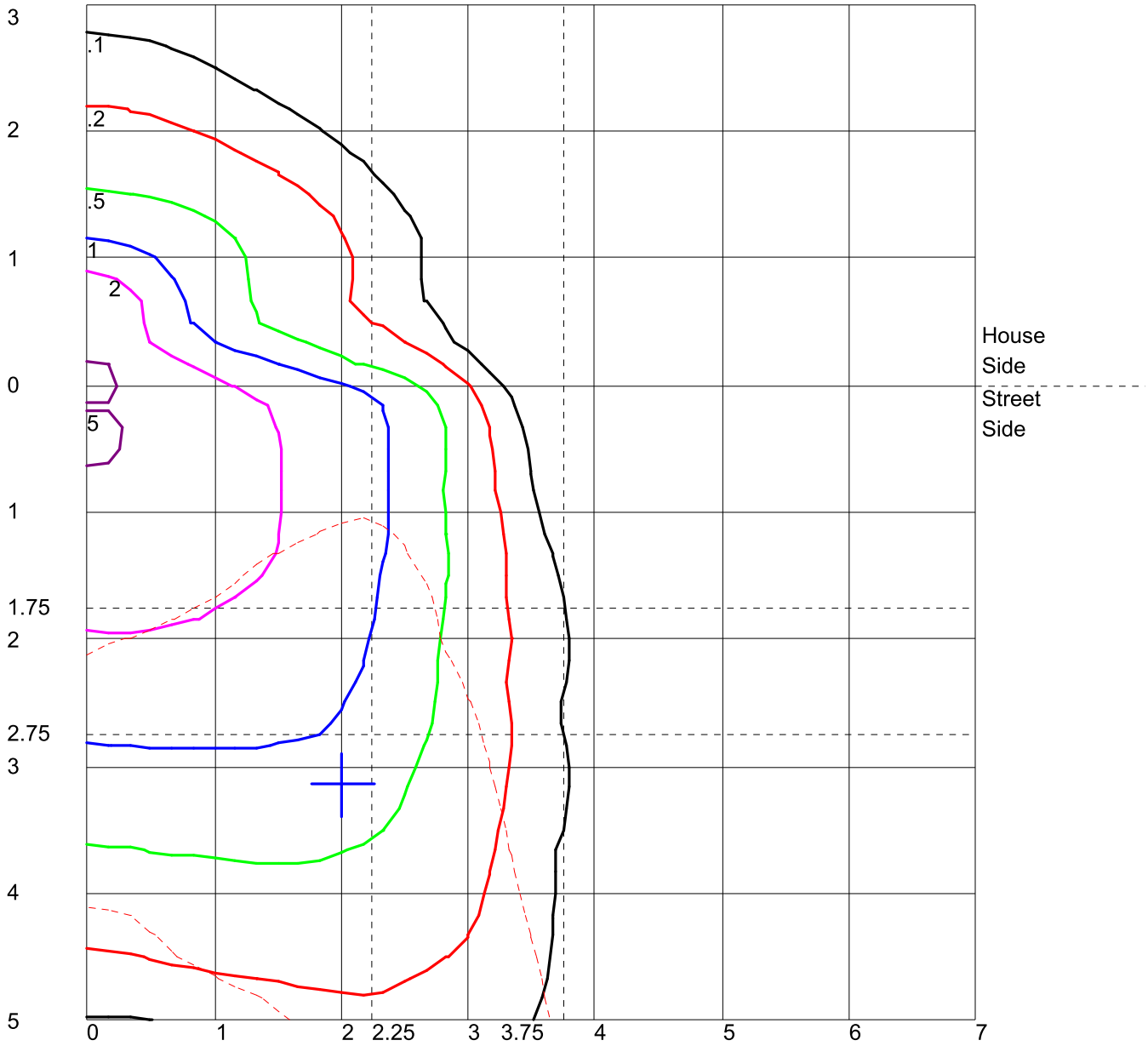
IES ROAD REPORT
PHOTOMETRIC FILENAME : DSX0 LED P1 40K 70CRI TFTM.IES

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



Distance In Units Of Mounting Height
Values Based On 10 Foot Mounting Height
1/2 Maximum Candela Trace Shown As Dashed Curve
(+) = Maximum Candela Point

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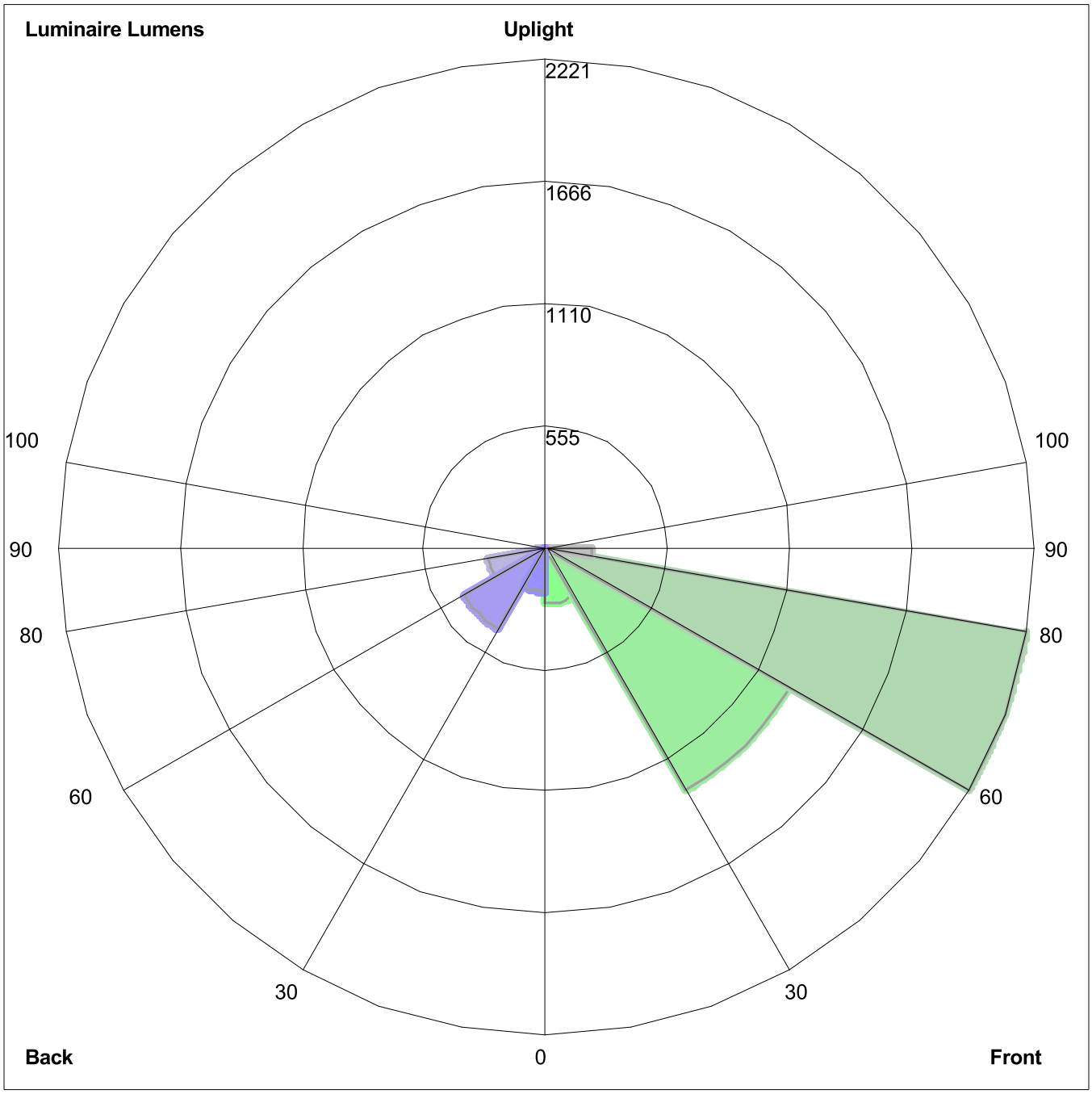
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : DSX0 LED P1 40K 70CRI TFTM.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=256.4, Medium= 1276.0, High=2220.7, Very High=207.3
Back: Low=202.3, Medium=431.0, High=267.7, Very High=34.5
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G2

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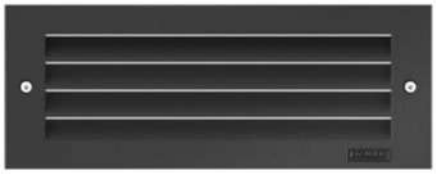
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

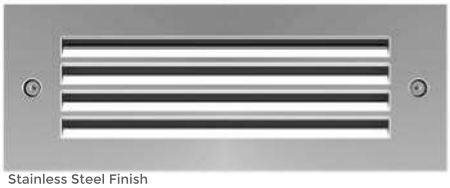
ULE40601
Legend 2 Recessed

TYPE OWE

LIGMAN LIGHTING USA

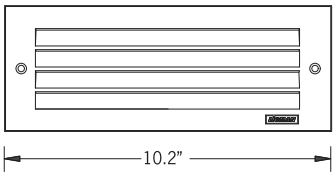


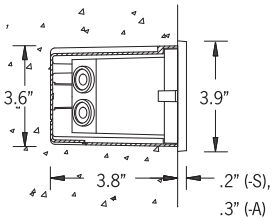
Aluminum Finish



Stainless Steel Finish

13.5w LED 247/517 Lumens
IP65 • Suitable For Wet Locations
IK07 • Impact Resistant (Vandal Resistant)
Weight 4.1 lbs





Construction

Aluminum Casting
Less than 0.1% copper content – Marine Grade 6060 extruded & LM6 Aluminum High Pressure die casting provides excellent mechanical strength , clean detailed product lines and excellent heat dissipation.

Pre paint
8 step degrease and phosphate process that includes deoxidizing and etching as well as a zinc and nickel phosphate process before product painting.

Memory Retentive -Silicon Gasket
Provided with special injection molded “fit for purpose” long life high temperature memory retentive silicon gaskets. Maintains the gaskets exact profile and seal over years of use and compression.

Thermal management
LM6 Aluminum is used for its excellent mechanical strength and thermal dissipation properties in low and high ambient temperatures. The superior thermal heat sink design by Ligman used in conjunction with the driver, controls thermals below critical temperature range to ensure maximum luminous flux output, as well as providing long LED service life and ensuring less than 10% lumen depreciation at 50,000 hours.

BUG Rating
B0 - U1 - G0

Surge Suppression
Standard 10kv surge suppressor provided with all fixtures.

Finishing
All Ligman products go through an extensive finishing process that includes fettling to improve paint adherence.

Paint
UV Stabilized 4.9Mil thick powder coat paint and baked at 200 Deg C. This process ensures that Ligman products can withstand harsh environments. Rated for use in natatoriums.

Inspired by Nature Finishes
The Inspired by nature Finishing is a unique system of decorative powder coating. Our metal decoration process can easily transform the appearance of metal or aluminum product into a wood grain finish.

This patented technology enables the simulation of wood grain, and even marble or granite finish through the use of decorative powder coating.

The wood grain finish is so realistic that it’s almost undistinguishable from real wood, even from a close visual inspection. The system of coating permeates the entire thickness of the coat and as a result, the coating cannot be removed by normal rubbing, chipping, or scratching.

The Coating Process
After pre-treatment the prepared parts are powder coated with a specially formulated polyurethane powder. This powder provides protection against wear, abrasion, impact and corrosion and acts as the relief base color for the finalized metal decoration.

The component is then wrapped with a sheet of non-porous film with the selected decoration pattern printed on it using special high temperature inks.

This printed film transfer is vacuum-sealed to the surface for a complete thermo print and then transferred into a customized oven. The oven transforms the ink into different forms within the paint layer before it becomes solid. Finally, the film is removed, and a vivid timber look on aluminum remains.

Wood grain coating can create beautiful wood-looking products of any sort. There are over 300 combinations of designs currently in use. Wood grains can be made with different colors, designs, etc.

Our powder coatings are certified for indoor and outdoor applications and are backed by a comprehensive warranty. These coatings rise to the highest conceivable standard of performance excellence and design innovation.

Added Benefits
• Resistance to salt-acid room, accelerated aging
• Boiling water, lime and condensed water resistant
• Anti-Graffiti, Anti-Slip, Anti-Microbial, Anti-Scratch
• Super durable (UV restant)
• TGIC free (non-toxic)

Hardware
Provided Hardware is Marine grade 316 Stainless steel.

Anti Seize Screw Holes
Tapped holes are infused with a special anti seize compound designed to prevent seizure of threaded connections, due to electrolysis from heat, corrosive atmospheres and moisture.

High Impact Acrylic Lens
Manufactured with Ultra High Impact, Naturally UV Stabilized Injection Molded Acrylic.

Optics & LED
Precise optic design provides exceptional light control and precise distribution of light.
LED CRI > 80

Lumen - Maintenance Life
L80 /B10 at 50,000 hours (This means that at least 90% of the LED still achieve 80% of their original flux)

Rectangular time-honoured wall recessed accent range. Efficient, flexible and tough family in the classic brick-light proportions.

A range of vandal resistant rectangular wall recessed luminaires. Suitable for indoor or outdoor applications in residential, shopping and pedestrian areas as a decorative guide light. Available in a variety of frame and LED light source options, including turtle friendly amber LED.

The Legend 1 and 2 is available with powdercoated aluminum or stainless steel frames. This luminaire is provided with a powdercoated high pressure die-cast aluminum back box and can be pre shipped to the jobsite for concrete pour or masonry applications.

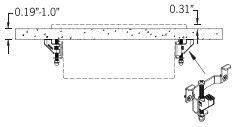
As an option, this luminaire can be provided with a special wall clamp bracket that provides a clamping option when installing in drywall or wood panel walls.

Available in amber and white 2700K, 3000K, 3500K and 4000K. Consult factory for additional colors. The Legend steplight range can be provided with colored lenses to provide a decorative architectural touch to the building, please see options.

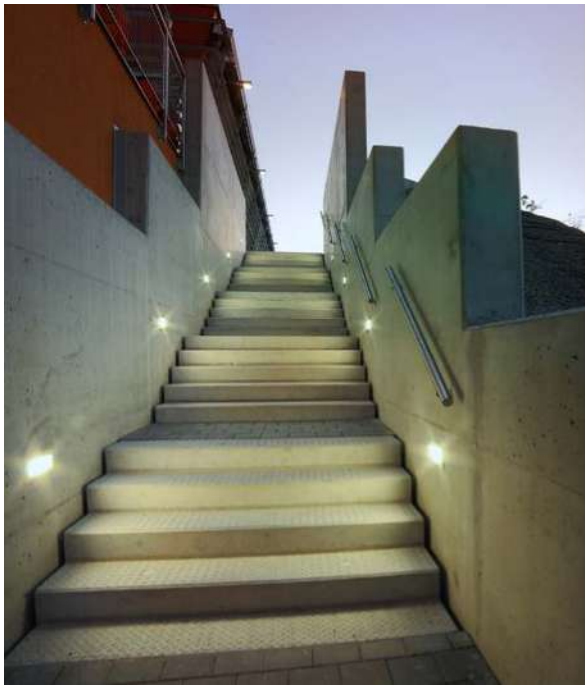
All Ligman fixtures can be manufactured using a special pre-treatment and coating process that ensures the fixture can be installed in natatoriums as well as environments with high concentrations of chlorine or salt and still maintain the 5 year warranty. For this natatorium rated process please specify NAT in options. fixture can be installed in natatoriums as well as environments with high concentrations of chlorine or salt and still maintain the 5 year warranty. For this natatorium rated process please specify NAT in options.

Additional Options (Consult Factory For Pricing)

SMB
Surface Mount Box



DWC
Dry Wall Clamp



Ligman Lighting Canada Inc. reserves the right to change specifications without prior notice, please contact factory for latest information. Due to the continual improvements in LED technology data and components may change without notice.

ULE-40601
Legend 2 Recessed

LIGMAN LIGHTING USA

PROJECT		DATE	
QUANTITY		TYPE		NOTE	

ORDERING EXAMPLE || ULE-40601 - 13.5w - A - W30 - 02 - 120/277V

ULE-40601	LAMP	FRAME	LED COLOR	FINISH COLOR	VOLTAGE
	13.5w LED	A - Aluminum - CHOOSE FINISH COLOR	W27 - 2700K	01 - BLACK RAL 9011	120/277v
	247 Lumens [A]		W30 - 3000K	02 - DARK GREY RAL 7043	Other - Specify
	517 Lumens [S]		W35 - 3500K	03 - WHITE RAL 9003	
		S - Stainless Steel	W40 - 4000K	04 - METALLIC SILVER RAL 9006	
		NO FINISH COLOR		05 - MATTE SILVER RAL 9006	
				06 - LIGMAN BRONZE	TBD
				07 - CUSTOM RAL	

ADDITIONAL OPTIONS

DIM - 0-10v Dimming
NAT - Natatorium Rated
AM - Turtle Friendly Amber LED
SMB - Surface Mount Box
C - Clear Lens
DWC - Dry Wall Clamp

COLOR FILTERS
RD - Red Lens
BL - Blue Lens
AM - Amber Lens
GR - Green Lens

INSPIRED BY NATURE FINISHES

SW01 - OAK FINISH
SW02 - WALNUT FINISH
SW03- PINE FINISH
DF - DOUGLAS FIR FINISH
CW - CHERRY WOOD FINISH
NW - NATIONAL WALNUT FINISH
SU01 - CONCRETE FINISH
SU02 - SOFTSCAPE FINISH
SU03 - STONE FINISH
SU04 - CORTEN FINISH

More Custom Finishes Available Upon Request

Consult factory for pricing and lead times

Oak
Cherry
Beech
Carbon
Walnut
Chestnut
Bamboo
Galvanized
Pine
Mahogany
Birch
Steel


Example: Inspired by Nature Finish

Lightman Lighting reserves the right to change specifications without prior notice, please contact factory for latest information. Due to the continual improvements in LED technology data and components may change without notice.

Legend Product Family

Legend 1

- ULE-40591-13.5w-1401lm
- ULE-40721-11.5w-405lm

Legend 2

- ULE-40601-13.5w-247lm [Aluminum]
- ULE-40601-13.5w-517lm [Stainless Steel]
- ULE-40722-11.5w-60lm

Legend 3

- ULE-40611-13.5w-420lm [Aluminum]
- ULE-40611-13.5w-957lm [Stainless Steel]

Legend 4

- ULE-40621-13.5w-1151lm

Legend 9

- ULE-40671-13.5w-380lm

IES ROAD REPORT
PHOTOMETRIC FILENAME : LE-40601-S-W40 REV.2.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LIGMAN
[TESTLAB] Ligman Lighting Photometric Laboratory
[ISSUEDATE] 13/08/2015 10:49:17
[MANUFAC] LIGMAN
[LUMCAT] LE-40601-S-W40 Rev.2
[LUMINAIRE] Legend 2 recessed step light LED
[LAMP] 3x1 COB LED 4000K
[_ABSOLUTELUMENS] 155
[MORE] 0.3781,0.3747 4051K Ra84
[_EEC] A++

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	155
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	14
Total Luminaire Watts	11.5
Ballast Factor	1.00
Upward Waste Light Ratio	0.15
Maximum Candela	88.7
Maximum Candela Angle	360H 57.5V
Maximum Candela (<90 Degrees Vertical)	88.7
Maximum Candela Angle (<90 Degrees Vertical)	360H 57.5V
Maximum Candela At 90 Degrees Vertical	51.2 (33.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	66.2 (42.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : LE-40601-S-W40 REV.2.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	5.0	N.A.	3.2
FM - Front-Medium (30-60)	54.3	N.A.	35.0
FH - Front-High (60-80)	53.0	N.A.	34.2
FVH - Front-Very High (80-90)	19.8	N.A.	12.8
BL - Back-Low (0-30)	< 0.05	N.A.	0.0
BM - Back-Medium (30-60)	0.1	N.A.	0.1
BH - Back-High (60-80)	0.1	N.A.	0.1
BVH - Back-Very High (80-90)	0.1	N.A.	0.0
UL - Uplight-Low (90-100)	12.2	N.A.	7.9
UH - Uplight-High (100-180)	10.7	N.A.	6.9
Total	155.3	N.A.	100.0
BUG Rating	B0-U2-G1		

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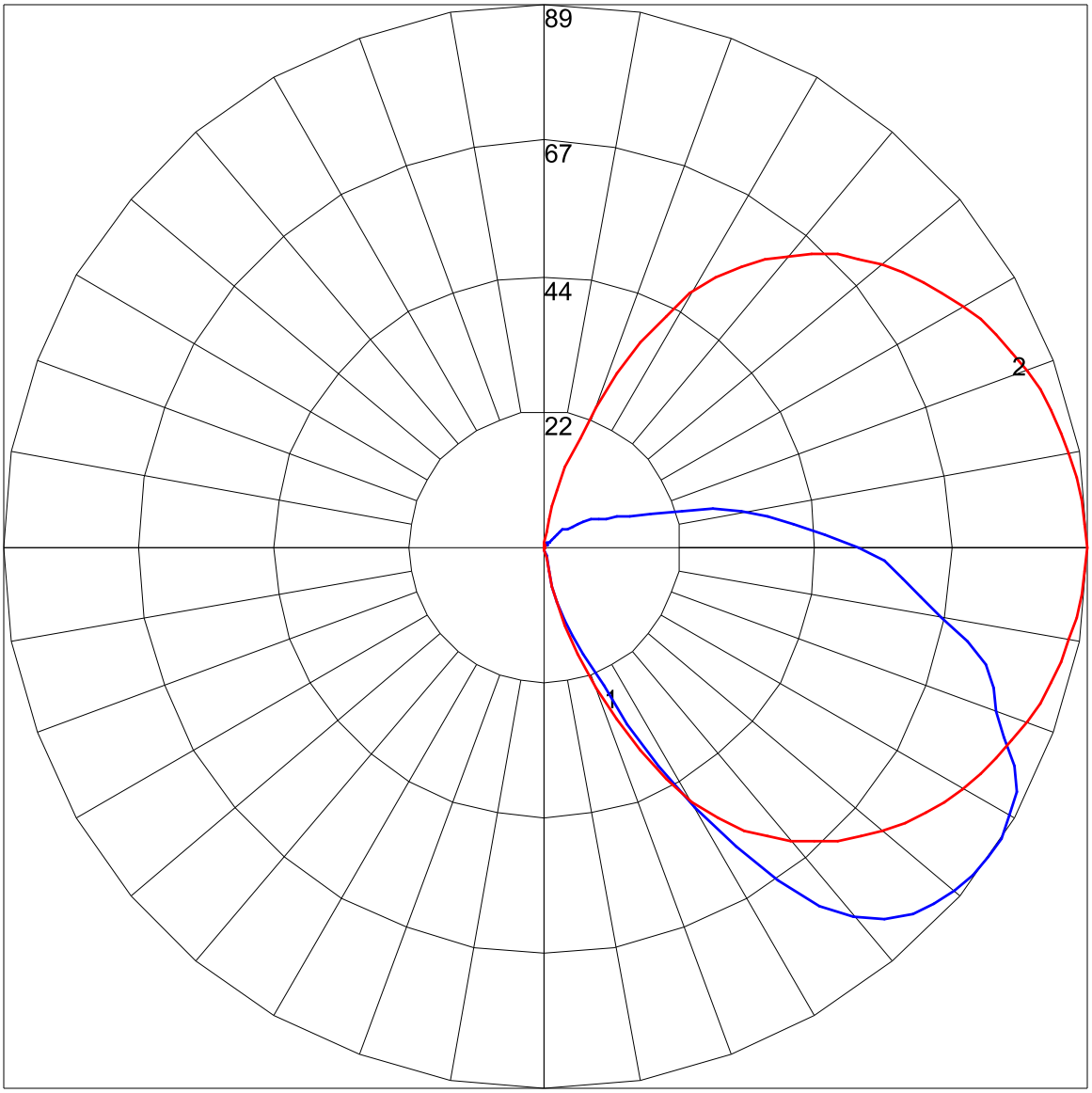
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : LE-40601-S-W40 REV.2.IES

POLAR GRAPH



Maximum Candela = 88.7 Located At Horizontal Angle = 360, Vertical Angle = 57.5
1 - Vertical Plane Through Horizontal Angles (360 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (57.5) (Through Max. Cd.)

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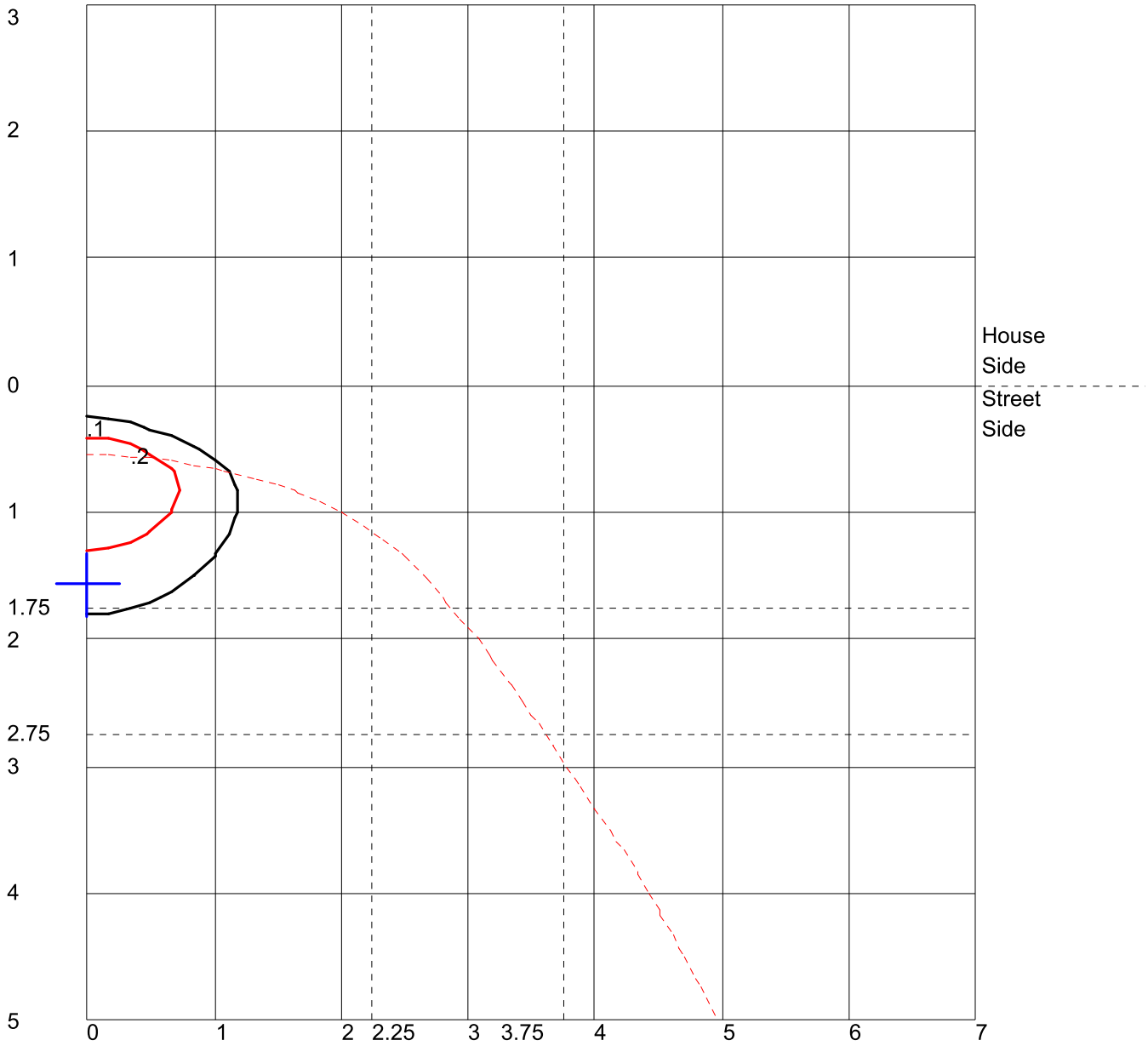
IES ROAD REPORT
PHOTOMETRIC FILENAME : LE-40601-S-W40 REV.2.IES

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



Distance In Units Of Mounting Height
Values Based On 10 Foot Mounting Height
1/2 Maximum Candela Trace Shown As Dashed Curve
(+) = Maximum Candela Point

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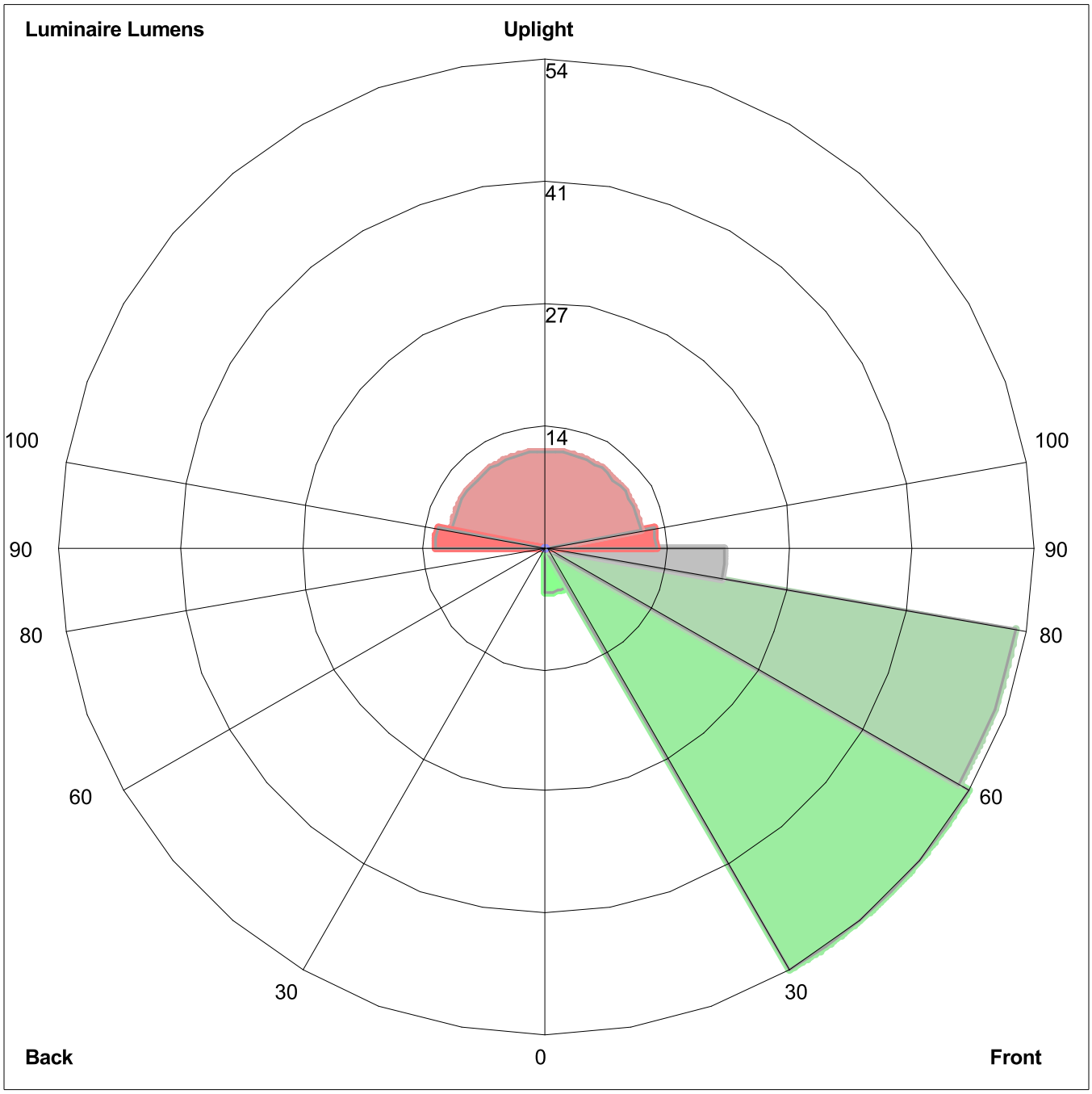
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : LE-40601-S-W40 REV.2.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=5.0, Medium=54.3, High=53.0, Very High=19.8
Back: Low=0.0, Medium=0.1, High=0.1, Very High=0.1
Uplight: Low=12.2, High=10.7

BUG Rating : B0-U2-G1

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Results derived from content of manufacturers photometric file.

WDGE2 LED

Architectural Wall Sconce
Visual Comfort Optic

Buy American

Catalog Number

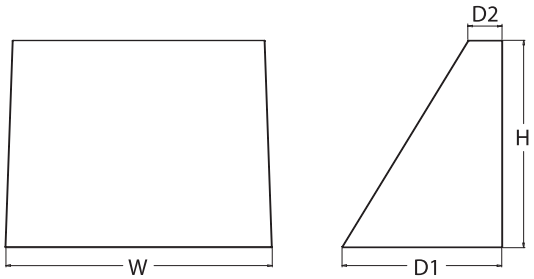
Notes

Type TYPE OWF

Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

Depth (D1): 7"
Depth (D2): 1.5"
Height: 9"
Width: 11.5"
Weight: (without options) 13.5 lbs



Introduction

The WDGE LED family is designed to meet specifier's every wall-mounted lighting need in a widely accepted shape that blends with any architecture. The clean rectilinear design comes in four sizes with lumen packages ranging from 1,200 to 25,000 lumens, providing a true site-wide solution. Embedded with nLight® AIR wireless controls, the WDGE family provides additional energy savings and code compliance.

WDGE2 delivers up to 6,000 lumens with a soft, non-pixelated light source, creating a visually comfortable environment. When combined with multiple integrated emergency battery backup options, including an 18W cold temperature option, the WDGE2 becomes the ideal wall-mounted lighting solution for pedestrian scale applications in any environment.

WDGE LED Family Overview

Luminaire	Optics	Standard EM, 0°C	Cold EM, -20°C	Sensor	Approximate Lumens (4000K, 80CRI)						
					P0	P1	P2	P3	P4	P5	P6
WDGE1 LED	Visual Comfort	4W		--	750	1,200	2,000	--	--	--	--
WDGE2 LED	Visual Comfort	10W	18W	Standalone / nLight	--	1,200	2,000	3,000	4,500	6,000	--
WDGE2 LED	Precision Refractive	10W	18W	Standalone / nLight	700	1,200	2,000	3,200	4,200	--	--
WDGE3 LED	Precision Refractive	15W	18W	Standalone / nLight	--	7,500	8,500	10,000	12,000	--	--
WDGE4 LED	Precision Refractive			Standalone / nLight	--	12,000	16,000	18,000	20,000	22,000	25,000

Ordering Information

EXAMPLE: WDGE2 LED P3 40K 80CRI VF MVOLT SRM DDBXD

Series	Package	Color Temperature	CRI	Distribution	Voltage	Mounting
WDGE2 LED	P1[1] P1SW P2[1] P2SW P3[1] P3SW P4[1] P5[1] Door with small window (SW) is required to accommodate sensors. See page 2 for more details.	27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K[2] 5000K	80CRI 90CRI	VF Visual comfort forward throw VW Visual comfort wide	MVOLT 347[3] 480[3]	**Shipped included** SRM Surface mounting bracket ICW Indirect Canopy/Ceiling Washer bracket (dry/damp locations only)[7] **Shipped separately** AWS 3/8inch Architectural wall spacer PBBW Surface-mounted back box (top, left, right conduit entry). Use when there is no junction box available.

Options

E4WH Emergency battery backup, Certified in CA Title 20 MAEDBS (4W, 0°C min)
E10WH Emergency battery backup, Certified in CA Title 20 MAEDBS (10W, 5°C min)
E20WC Emergency battery backup, Certified in CA Title 20 MAEDBS (18W, -20°C min)
PE[4] Photocell, Button Type
DS[5] Dual switching (comes with 2 drivers and 2 light engines; see page 3 for details)
DMG[6] 0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately)
BCE Bottom conduit entry for back box (PBBW). Total of 4 entry points.
BAA Buy America(n) Act Compliant

Standalone Sensors/Controls (only available with P1SW, P2SW & P3SW)
PIR Bi-level (100/35%) motion sensor for 8-15' mounting heights. Intended for use on switched circuits with external dusk to dawn switching.
PIRH Bi-level (100/35%) motion sensor for 15-30' mounting heights. Intended for use on switched circuits with external dusk to dawn switching
PIR1FC3V Bi-level (100/35%) motion sensor for 8-15' mounting heights with photocell pre-programmed for dusk to dawn operation.
PIRH1FC3V Bi-level (100/35%) motion sensor for 15-30' mounting heights with photocell pre-programmed for dusk to dawn operation.

Networked Sensors/Controls (only available with P1SW, P2SW & P3SW)
NLTAIR2 PIR nLightAIR Wireless enabled bi-level motion/ambient sensor for 8-15' mounting heights.
NLTAIR2 PIRH nLightAIR Wireless enabled bi-level motion/ambient sensor for 15-30' mounting heights.
See page 4 for out of box functionality

Finish

DDBXD	Dark bronze
DBLXD	Black
DNAXD	Natural aluminum
DWHXD	White
DSSXD	Sandstone
DDBTXD	Textured dark bronze
DBLBXD	Textured black
DNATXD	Textured natural aluminum
DWHGXD	Textured white
DSSTXD	Textured sandstone

TBD

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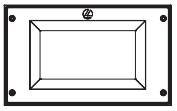
Accessories

Ordered and shipped separately.

WDGEAWS DDBXD	WDGE 3/8inch Architectural Wall Spacer (specify finish)
WDGE2PBBW DDBXD U	WDGE2 surface-mounted back box (specify finish)

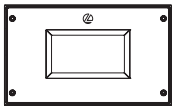
NOTES

1 P1-P5 not available with sensors/controls. Sensors/controls only available with P1SW, P2SW and P3SW.
2 50K not available in 90CRI
3 347V and 480V not available with E4WH, E10WH, E20WC or DS.
4 PE not available in 480V or with sensors/controls
5 DS option not available with E4WH, E10WH, E20WC or sensors/controls.
6 DMG option not available with sensors/controls
7 Not qualified for DLC. Not available with emergency battery backup or sensors/controls



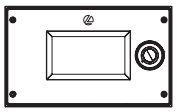
Default configuration with no sensors/controls.

Power Packages: P1, P2, P3, P4, P5



Small Window (SW) configuration

Power Packages: P1SW, P2SW, P3SW



Configuration with sensors/controls

Power Packages: P1SW, P2SW, P3SW

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Performance Package	System Watts	Dist. Type	27K (2700K, 80 CRI)					30K (3000K, 80 CRI)					35K (3500K, 80 CRI)					40K (4000K, 80 CRI)					50K (5000K, 80 CRI)				
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
P1 / P1SW	10W	VF	1,166	119	0	0	0	1,209	123	0	0	0	1,251	128	0	0	0	1,256	128	0	0	0	1,254	128	0	0	0
		VW	1,197	122	0	0	0	1,241	126	0	0	0	1,284	131	0	0	0	1,289	131	0	0	0	1,286	131	0	0	0
P2 / P2SW	15W	VF	1,878	129	1	0	0	1,947	134	1	0	0	2,015	139	1	0	0	2,023	139	1	0	0	2,019	139	1	0	0
		VW	1,927	133	1	0	0	1,997	137	1	0	0	2,067	142	1	0	0	2,075	143	1	0	0	2,071	143	1	0	0
P3 / P3SW	23W	VF	2,908	129	1	0	0	3,015	134	1	0	0	3,119	138	1	0	0	3,132	139	1	0	0	3,126	139	1	0	0
		VW	2,983	132	1	0	0	3,093	137	1	0	0	3,200	142	1	0	0	3,213	143	1	0	0	3,206	142	1	0	0
P4	35W	VF	4,096	117	1	0	1	4,247	121	1	0	1	4,394	126	1	0	1	4,412	126	1	0	1	4,403	126	1	0	1
		VW	4,202	120	1	0	0	4,357	125	1	0	1	4,508	129	1	0	1	4,526	129	1	0	1	4,517	129	1	0	1
P5	48W	VF	5,567	115	1	0	1	5,772	119	1	0	1	5,972	123	1	0	1	5,996	124	1	0	1	5,984	124	1	0	1
		VW	5,711	118	1	0	1	5,921	122	1	0	1	6,127	126	1	0	1	6,151	127	1	0	1	6,139	127	1	0	1

Electrical Load

Performance Package	System Watts	Current (A)					
		120V	208V	240V	277V	347V	480V
P1 / P1SW	10W	0.082	0.049	0.043	0.038	--	--
	13W	--	--	--	--	0.046	0.033
P2 / P2SW	15W	0.132	0.081	0.072	0.064	--	--
	18W	--	--	--	--	0.056	0.041
P3 / P3SW	23W	0.195	0.114	0.100	0.088	--	--
	26W	--	--	--	--	0.079	0.058
P4	35W	0.302	0.175	0.152	0.134	--	--
	38W	--	--	--	--	0.115	0.086
P5	48W	0.434	0.241	0.211	0.184	--	--
	52W	--	--	--	--	0.157	0.119

Lumen Multiplier for 90CRI

CCT	Multiplier
27K	0.845
30K	0.867
35K	0.845
40K	0.885
50K	0.898

Lumen Output in Emergency Mode (4000K, 80 CRI)

Option	Dist. Type	Lumens
E4WH	VF	646
	VW	647
E10WH	VF	1,658
	VW	1,701
E20WC	VF	2,840
	VW	2,913

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.03
10°C	50°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.98

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	>0.96	>0.95	>0.91

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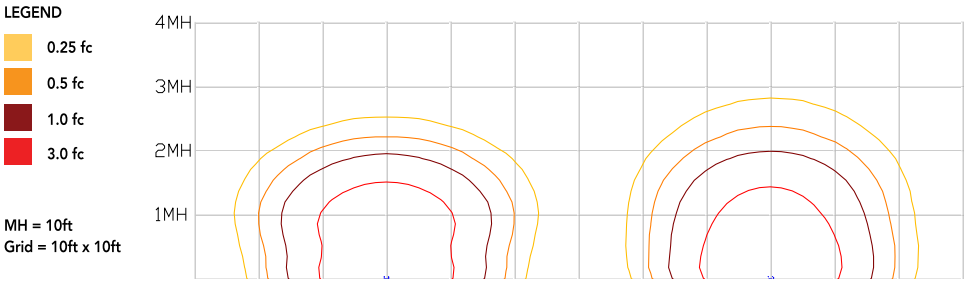
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit the Lithonia Lighting WDGE LED homepage. Tested in accordance with IESNA LM-79 and LM-80 standards.



WDGE2 LED P3 40K 80CRI VW

WDGE2 LED P3 40K 80CRI VF

Emergency Egress Options

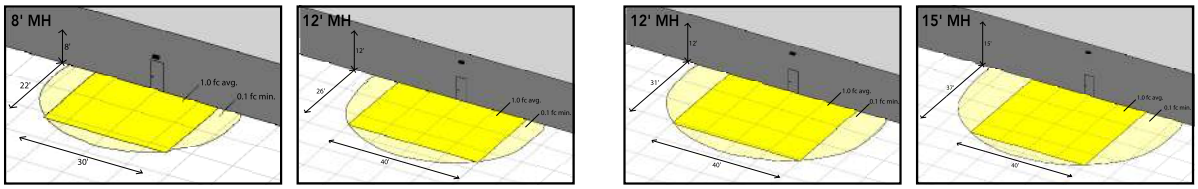
Emergency Battery Backup

The emergency battery backup is integral to the luminaire — no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product. All emergency battery backup configurations include an independent secondary driver with an integral relay to immediately detect loss of normal power and automatically energize the luminaire. The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time normal power is lost and maintain a minimum of 60% of the light output at the end of 90minutes.

Applicable codes: NFPA 70/NEC – section 700.16, NFPA 101 Life Safety Code Section 7.9

The examples below show illuminance of 1 fc average and 0.1 fc minimum in emergency mode with E10WH or E20WC and VF distribution.

Grid = 10ft x 10ft



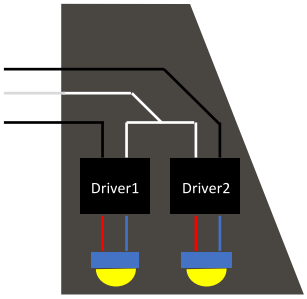
WDGE2 LED xx 40K 80CRI VF MVOLT E10WH

WDGE2 LED xx 40K 80CRI VF MVOLT E20WC

Dual Switching (DS) Option

The dual switching option offers operational redundancy that certain codes require. With this option the luminaire comes integrated with two drivers and two light engines. These work completely independent to each other so that a failure of any individual component does not cause the whole luminaire to go dark. This option is typically used with a back generator or inverter providing emergency power.

Applicable codes: NFPA 70/NEC – section 700.16, NFPA 101 Life Safety Code Section 7.9



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Control / Sensor Options

Motion/Ambient Sensor (PIR_, PIRH_)

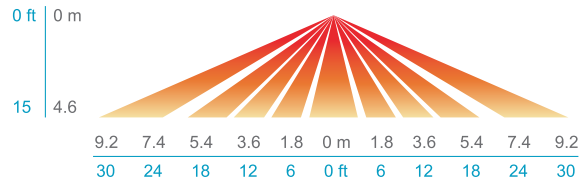
Motion/Ambeint sensor (Sensor Switch MSOD) is integrated into the the luminaire. The sensor provides both Motion and Daylight based dimming of the luminaire. For motion detection, the sensor utilizes 100% Digital Passive Infrared (PIR) technology that is tuned for walking size motion while preventing false tripping from the environment. The integrated photocell enables additional energy savings during daytime periods when there is sufficient daylight. Optimize sensor coverage by either selecting PIR or PIRH option. PIR option comes with a sensor lens that is optimized to provide maximum coverage for mounting heights between 8-15ft, while PIRH is optimized for 15-40ft mounting height.

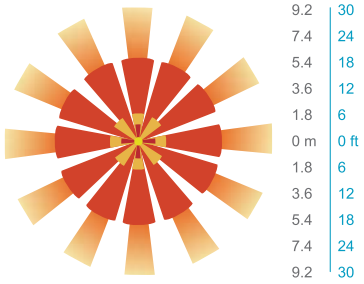
Networked Control (NLTAIR2)

nLight® AIR is a wireless lighting controls platform that allows for seamless integration of both indoor and outdoor luminaires. Five-tier security architecture, 900 MHz wireless communication and app (CLAIRITY™ Pro) based configurability combined together make nLight® AIR a secure, reliable and easy to use platform.

PIR

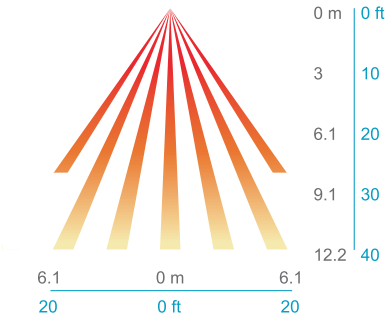
HIGH VIEW



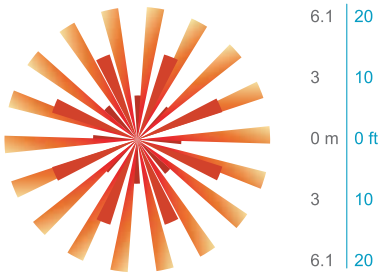


PIRH

SIDE VIEW



TOP VIEW



Option	Dim Level	High Level (when triggered	Photocell Operation	Motion Time Delay	Ramp-down Time	Ramp-up Time
PIR or PIRH	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 5fc	5 min	5 min	Motion - 3 sec Photocell - 45 sec
PIR1FC3V, PIRH1FC3V	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 1fc	5 min	5 min	Motion - 3 sec Photocell - 45 sec
NLTAIR2 PIR, NLTAIR2 PIRH (out of box)	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 5fc	7.5 min	5 min	Motion - 3 sec Photocell - 45 sec

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Mounting, Options & Accessories

NLTAIR2 PIR – nLight AIR Motion/Ambient Sensor

D = 7"

H = 11"

W = 11.5"

PBBW – Surface-Mounted Back Box
Use when there is no junction box available.

D = 1.75"

H = 9"

W = 11.5"

AWS – 3/8inch Architectural Wall Spacer

D = 0.38"

H = 4.4"

W = 7.5"

FEATURES & SPECIFICATIONS

INTENDED USE
Common architectural look, with clean rectilinear shape, of the WDGE LED was designed to blend with any type of construction, whether it be tilt-up, frame or brick. Applications include commercial offices, warehouses, hospitals, schools, malls, restaurants, and other commercial buildings.

CONSTRUCTION
The single-piece die-cast aluminum housing integrates secondary heat sinks to optimize thermal transfer from the internal light engine heat sinks and promote long life. The driver is mounted in direct contact with the casting for a low operating temperature and long life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP66 rating for the luminaire.

FINISH
Exterior painted parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Standard Super Durable colors include dark bronze, black, natural aluminum, sandstone and white. Available in textured and non-textured finishes.

OPTICS
Well crafted reflector optics allow the light engine to be recessed within the luminaire, providing visual comfort, superior distribution, uniformity, and spacing in wall-mount applications. The WDGE LED has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL
Light engine consists of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L91/100,000 hours at 25°C). The electronic driver has a power factor of >90%, THD <20%. Luminaire comes with built in 6kV surge protection, which meets a minimum Category C low exposure (per ANSI/IEEE C62.41.2). Fixture ships standard with 0-10v dimmable driver.

INSTALLATION
A universal mounting plate with integral mounting support arms allows the fixture to hinge down for easy access while making wiring connections. The 3/8" Architectural Wall Spacer (AWS) can be used to create a floating appearance or to accommodate small imperfections in the wall surface. The ICW option can be used to mount the luminaire inverted for indirect lighting in dry and damp locations. Design can withstand up to a 1.5 G vibration load rating per ANSI C136.31.

LISTINGS
CSA certified to U.S. and Canadian standards. Luminaire is IP66 rated. PIR options are rated for wet location. Rated for -40°C minimum ambient. DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified. International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 2700K and 3000K color temperature only and SRM mounting only.

BUY AMERICAN
Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY
5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

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IES ROAD REPORT
PHOTOMETRIC FILENAME : WDGE2 LED P3 40K 80CRI VW.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] ISF 20154P25
[ISSUEDATE] 11/5/2019
[TESTLAB] ACUITY BRANDS LIGHTING, DECATUR LAB
[MANUFAC] Lithonia Lighting
[LUMCAT] WDGE2 LED P3 40K 80CRI VW
[LUMINAIRE] WDGE2 LED WITH P3 - PERFORMANCE PACKAGE, 4000K, 80CRI, VISUAL COMFORT WIDE OPTIC
[DISTRIBUTION] TYPE III, VERY SHORT, BUG RATING: B1 - U0 - G0
[_TOTALLUMINAIRELUMENS] 3213
[_INPUTWATTAGE] 22.55
[_MOUNTING] WALL MOUNT
[_PHYSICALDIMENSIONS] 0.95833, 0.5833, 0.75
[_PRODUCTID] 59428784-cd5e-4b28-a855-8f72f9163b66
[_SERIES] WDGE2
[_SERIESID] 993532

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3214
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	22.55
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2449.088
Maximum Candela Angle	2.5H 45V
Maximum Candela (<90 Degrees Vertical)	2449.088
Maximum Candela Angle (<90 Degrees Vertical)	2.5H 45V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	96.932 (3.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : WDGE2 LED P3 40K 80CRI VW.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	548.7	N.A.	17.1
FM - Front-Medium (30-60)	1648.0	N.A.	51.3
FH - Front-High (60-80)	488.9	N.A.	15.2
FVH - Front-Very High (80-90)	6.8	N.A.	0.2
BL - Back-Low (0-30)	253.1	N.A.	7.9
BM - Back-Medium (30-60)	218.0	N.A.	6.8
BH - Back-High (60-80)	47.8	N.A.	1.5
BVH - Back-Very High (80-90)	2.6	N.A.	0.1
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	3213.9	N.A.	100.0
BUG Rating	B1-U0-G0		

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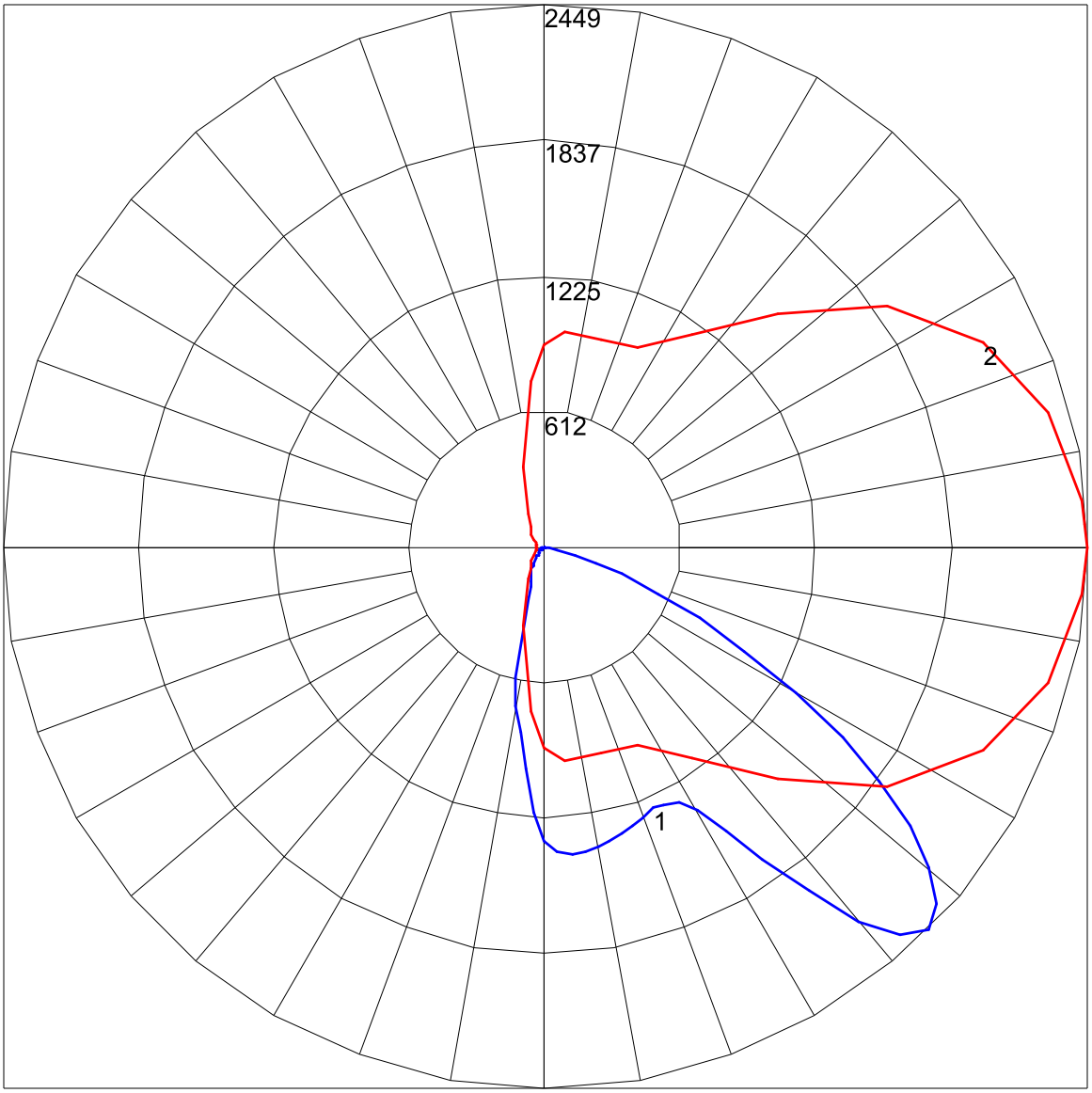
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : WDGE2 LED P3 40K 80CRI VW.IES

POLAR GRAPH



Maximum Candela = 2449.088 Located At Horizontal Angle = 2.5, Vertical Angle = 45
1 - Vertical Plane Through Horizontal Angles (2.5 - 182.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (45) (Through Max. Cd.)

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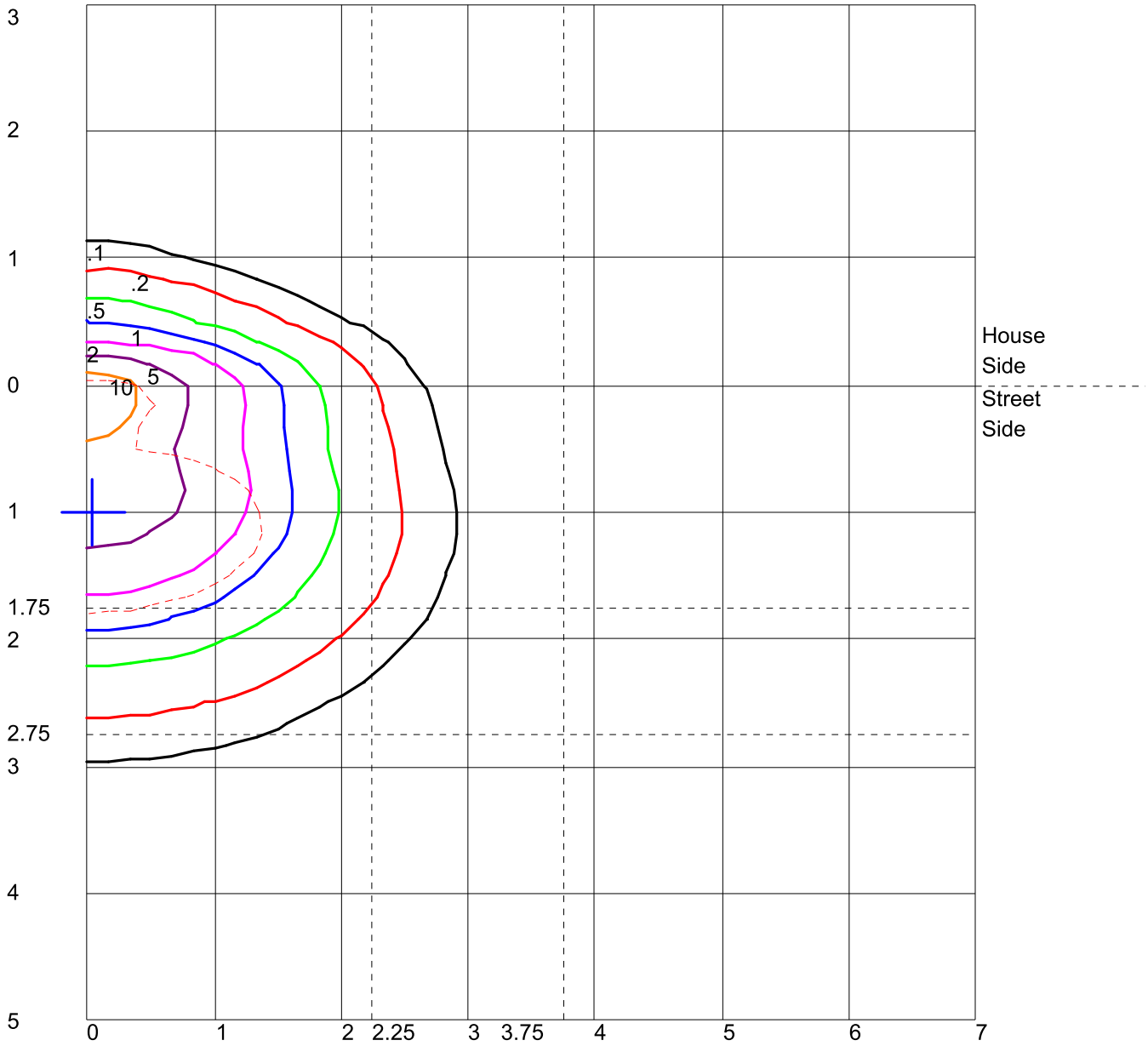
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : WDGE2 LED P3 40K 80CRI VW.IES

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



Distance In Units Of Mounting Height
Values Based On 10 Foot Mounting Height
1/2 Maximum Candela Trace Shown As Dashed Curve
(+) = Maximum Candela Point

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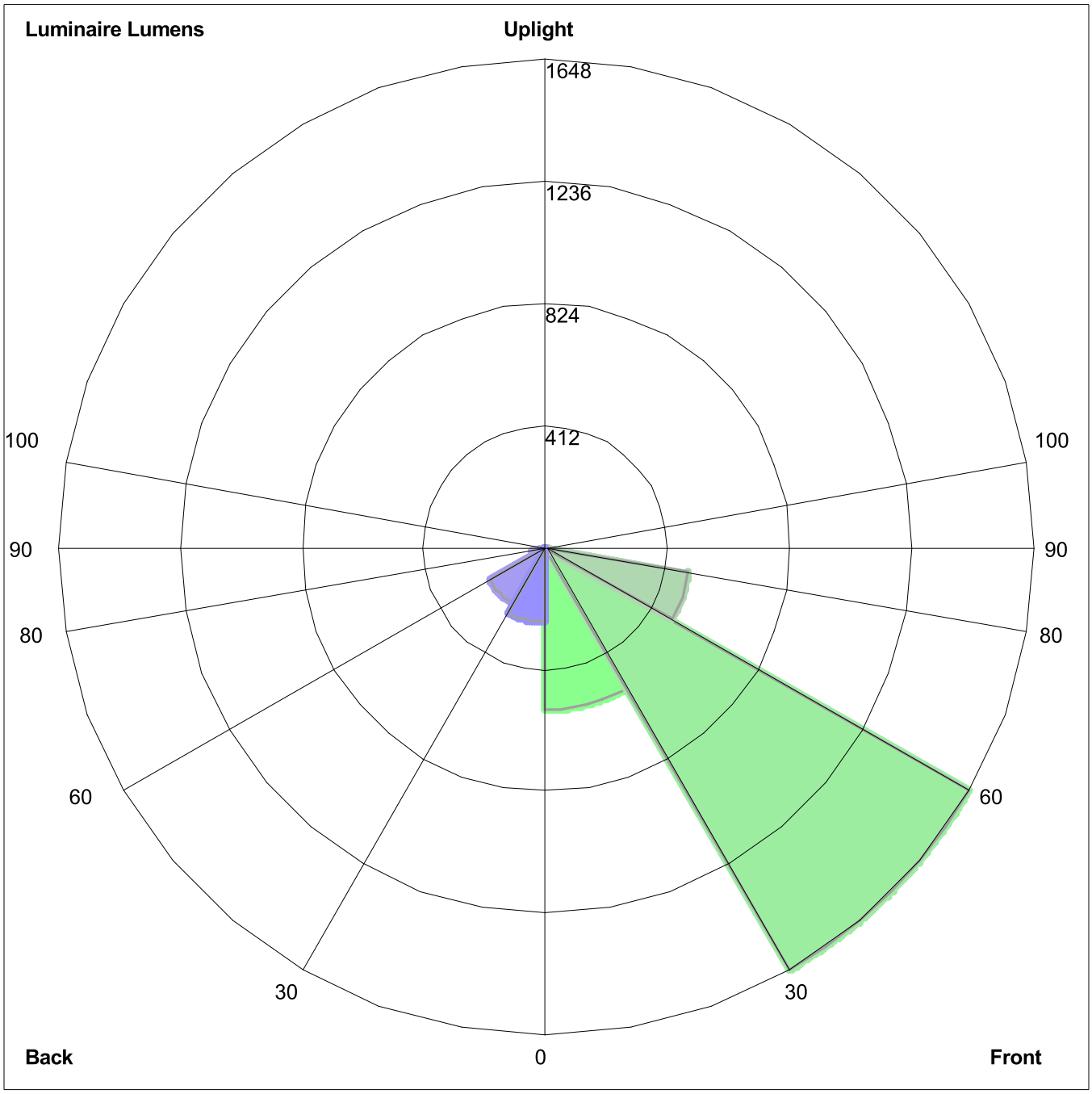
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : WDGE2 LED P3 40K 80CRI VW.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=548.7, Medium= 1648.0, High=488.9, Very High=6.8
Back: Low=253.1, Medium=218.0, High=47.8, Very High=2.6
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G0

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

WDGE2 LED

Architectural Wall Sconce
Precision Refractive Optic

Catalog Number

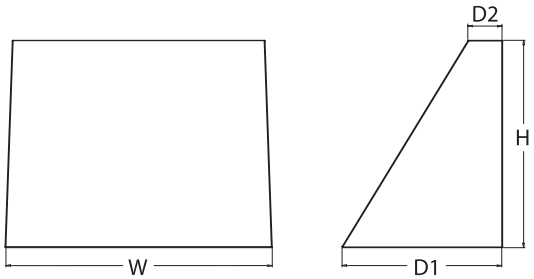
Notes

Type TYPE OWG

Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

Depth (D1): 7"
Depth (D2): 1.5"
Height: 9"
Width: 11.5"
Weight: (without options) 13.5 lbs



Introduction

The WDGE LED family is designed to meet specifier's every wall-mounted lighting need in a widely accepted shape that blends with any architecture. The clean rectilinear design comes in four sizes with lumen packages ranging from 1,200 to 25,000 lumens, providing a true site-wide solution. Embedded with nLight® AIR wireless controls, the WDGE family provides additional energy savings and code compliance.

WDGE2 with industry leading precision refractive optics provides great uniform distribution and optical control. When combined with multiple integrated emergency battery backup options, including an 18W cold temperature option, the WDGE2 becomes the ideal wall-mounted lighting solution for pedestrian scale applications in any environment.

WDGE LED Family Overview

Luminaire	Optics	Standard EM, 0°C	Cold EM, -20°C	Sensor	Approximate Lumens (4000K, 80CRI)						
					P0	P1	P2	P3	P4	P5	P6
WDGE1 LED	Visual Comfort	4W		--	750	1,200	2,000	--	--	--	--
WDGE2 LED	Visual Comfort	10W	18W	Standalone / nLight	--	1,200	2,000	3,000	4,500	6,000	--
WDGE2 LED	Precision Refractive	10W	18W	Standalone / nLight	700	1,200	2,000	3,200	4,200	--	--
WDGE3 LED	Precision Refractive	15W	18W	Standalone / nLight	--	7,500	8,500	10,000	12,000	--	--
WDGE4 LED	Precision Refractive			Standalone / nLight	--	12,000	16,000	18,000	20,000	22,000	25,000

Ordering Information

EXAMPLE: WDGE2 LED P3 40K 80CRI VF MVOLT SRM DDBXD

Series	Package	Color Temperature	CRI	Distribution	Voltage	Mounting
WDGE2 LED	P0[1] P1[2] P2[2] P3[2] P4[2]	27K 2700K 30K 3000K 40K 4000K 50K 5000K AMB[3] Amber	70CRI[4] 80CRI LW[3] Limited Wavelength	T1S Type I Short T2M Type II Medium T3M Type III Medium T4M Type IV Medium TFTM Forward Throw Medium	MVOLT 347[5] 480[5]	**Shipped included** SRM Surface mounting bracket ICW Indirect Canopy/Ceiling Washer bracket (dry/damp locations only)[6] **Shipped separately** AWS 3/8inch Architectural wall spacer PBBW Surface-mounted back box (top, left, right conduit entry). Use when there is no junction box available.

Options

E10WH	Emergency battery backup, Certified in CA Title 20 MAEDBS (10W, 5°C min)
E20WC	Emergency battery backup, Certified in CA Title 20 MAEDBS (18W, -20°C min)
PE[7]	Photocell, Button Type
DMG[8]	0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately)
BCE	Bottom conduit entry for back box (PBBW). Total of 4 entry points.
BAA	Buy America(n) Act Compliant

Standalone Sensors/Controls

PIR	Bi-level (100/35%) motion sensor for 8-15' mounting heights. Intended for use on switched circuits with external dusk to dawn switching.
PIRH	Bi-level (100/35%) motion sensor for 15-30' mounting heights. Intended for use on switched circuits with external dusk to dawn switching
PIR1FC3V	Bi-level (100/35%) motion sensor for 8-15' mounting heights with photocell pre-programmed for dusk to dawn operation.
PIRH1FC3V	Bi-level (100/35%) motion sensor for 15-30' mounting heights with photocell pre-programmed for dusk to dawn operation.

Networked Sensors/Controls

NLTAIR2 PIR	nLightAIR Wireless enabled bi-level motion/ambient sensor for 8-15' mounting heights.
NLTAIR2 PIRH	nLightAIR Wireless enabled bi-level motion/ambient sensor for 15-30' mounting heights.

See page 4 for out of box functionality

Finish

DDBXD	Dark bronze
DBLXD	Black
DNAXD	Natural aluminum
DWHXD	White
DSSXD	Sandstone
DDBTXD	Textured dark bronze
DBLBXD	Textured black
DNATXD	Textured natural aluminum
DWHGXD	Textured white
DSSTXD	Textured sandstone

TBD

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Accessories

Ordered and shipped separately.

WDGEAWS DDBXD	WDGE 3/8inch Architectural Wall Spacer (specify finish)
WDGE2PBBW DDBXD U	WDGE2 surface-mounted back box (specify finish)

NOTES

1 P0 option not available with sensors/controls.
2 P1-P4 not available with AMB and LW.
3 AMB and LW always go together.
4 70CRI only available with T3M and T4M.
5 347V and 480V not available with E10WH or E20WC.
6 Not qualified for DLC. Not available with emergency battery backup or sensors/controls.
7 PE not available in 480V or with sensors/controls.
8 DMG option not available with sensors/controls.

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Performance Package	System Watts	Dist. Type	27K (2700K, 80 CRI)					30K (3000K, 80 CRI)					40K (4000K, 80 CRI)					50K (5000K, 80 CRI)					Amber (Limited Wavelength)				
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
P0	7W	T1S	636	92	0	0	0	666	97	0	0	0	699	101	0	0	1	691	100	0	0	1	712	47	0	0	1
		T2M	662	96	0	0	0	693	101	0	0	0	728	106	0	0	0	719	104	0	0	0	741	48	0	0	0
		T3M	662	96	0	0	0	693	101	0	0	0	728	106	0	0	0	719	104	0	0	0	741	48	0	0	0
		T4M	648	94	0	0	0	679	98	0	0	0	712	103	0	0	0	704	102	0	0	0	726	47	0	0	0
		TFTM	652	95	0	0	0	683	99	0	0	0	717	104	0	0	0	708	103	0	0	0	730	48	0	0	1
P1	11W	T1S	1,105	99	0	0	1	1,157	104	0	0	1	1,215	109	0	0	1	1,200	107	0	0	1					
		T2M	1,150	103	0	0	1	1,204	108	0	0	1	1,264	113	0	0	1	1,249	112	0	0	1					
		T3M	1,150	103	0	0	1	1,205	108	0	0	1	1,265	113	0	0	1	1,250	112	0	0	1					
		T4M	1,126	101	0	0	1	1,179	106	0	0	1	1,238	111	0	0	1	1,223	110	0	0	1					
		TFTM	1,133	101	0	0	1	1,186	106	0	0	1	1,245	112	0	0	1	1,230	110	0	0	1					
P2	19W	T1S	1,801	95	1	0	1	1,886	99	1	0	1	1,981	104	1	0	1	1,957	103	1	0	1					
		T2M	1,875	99	1	0	1	1,963	103	1	0	1	2,061	109	1	0	1	2,037	107	1	0	1					
		T3M	1,876	99	1	0	1	1,964	103	1	0	1	2,062	109	1	0	1	2,038	107	1	0	1					
		T4M	1,836	97	1	0	1	1,922	101	1	0	1	2,018	106	1	0	1	1,994	105	1	0	1					
		TFTM	1,847	97	1	0	1	1,934	102	1	0	1	2,030	107	1	0	1	2,006	106	1	0	1					
P3	32W	T1S	2,809	87	1	0	1	2,942	92	1	0	1	3,089	96	1	0	1	3,052	95	1	0	1					
		T2M	2,924	91	1	0	1	3,062	95	1	0	1	3,215	100	1	0	1	3,176	99	1	0	1					
		T3M	2,925	91	1	0	1	3,063	95	1	0	1	3,216	100	1	0	1	3,177	99	1	0	1					
		T4M	2,862	89	1	0	1	2,997	93	1	0	1	3,147	98	1	0	1	3,110	97	1	0	1					
		TFTM	2,880	90	1	0	1	3,015	94	1	0	1	3,166	99	1	0	1	3,128	97	1	0	1					
P4	47W	T1S	3,729	80	1	0	1	3,904	84	1	0	1	4,099	88	1	0	1	4,051	87	1	0	1					
		T2M	3,881	83	1	0	1	4,063	87	1	0	1	4,267	91	1	0	1	4,216	90	1	0	1					
		T3M	3,882	83	1	0	1	4,065	87	1	0	1	4,268	91	1	0	1	4,217	90	1	0	1					
		T4M	3,799	81	1	0	1	3,978	85	1	0	1	4,177	90	1	0	1	4,127	88	1	0	1					
		TFTM	3,822	82	1	0	1	4,002	86	1	0	1	4,202	90	1	0	1	4,152	89	1	0	1					

Performance Package	System Watts	Dist. Type	27K (2700K, 70 CRI)					30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
P0	7W	T3M	737	107	0	0	0	763	111	0	0	0	822	119	0	0	0	832	121	0	0	1
		T4M	721	105	0	0	0	746	108	0	0	0	804	117	0	0	1	814	118	0	0	1
P1	11W	T3M	1,280	115	0	0	1	1,325	119	0	0	1	1,427	128	1	0	1	1,445	129	1	0	1
		T4M	1,253	112	0	0	1	1,297	116	0	0	1	1,397	125	0	0	1	1,415	127	0	0	1
P2	19W	T3M	2,087	110	1	0	1	2,160	114	1	0	1	2,327	123	1	0	1	2,357	124	1	0	1
		T4M	2,042	108	1	0	1	2,114	111	1	0	1	2,278	120	1	0	1	2,306	121	1	0	1
P3	32W	T3M	3,254	101	1	0	1	3,369	105	1	0	1	3,629	113	1	0	1	3,675	114	1	0	1
		T4M	3,185	99	1	0	1	3,297	103	1	0	1	3,552	111	1	0	1	3,597	112	1	0	1
P4	47W	T3M	4,319	93	1	0	1	4,471	96	1	0	1	4,817	103	1	0	2	4,878	105	1	0	2
		T4M	4,227	91	1	0	1	4,376	94	1	0	2	4,714	101	1	0	2	4,774	102	1	0	2

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Electrical Load

Performance Package	System Watts	Current (A)					
		120Vac	208Vac	240Vac	277Vac	347Vac	480Vac
P0	7.0	0.061	0.042	0.04	0.039	--	--
	9.0	--	--	--	--	0.031	0.021
P1	11.0	0.100	0.064	0.059	0.054	--	--
	14.1	--	--	--	--	0.046	0.031
P2	19.0	0.168	0.106	0.095	0.083	--	--
	22.8	--	--	--	--	0.067	0.050
P3	32.0	0.284	0.163	0.144	0.131	--	--
	37.1	--	--	--	--	0.107	0.079
P4	47.0	0.412	0.234	0.207	0.185	--	--
	53.5	--	--	--	--	0.153	0.112

Lumen Output in Emergency Mode (4000K, 80 CRI, T3M)

Option	Lumens
E10WH	1,358
E20WC	2,230

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.03
10°C	50°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.97

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	>0.96	>0.93	>0.87

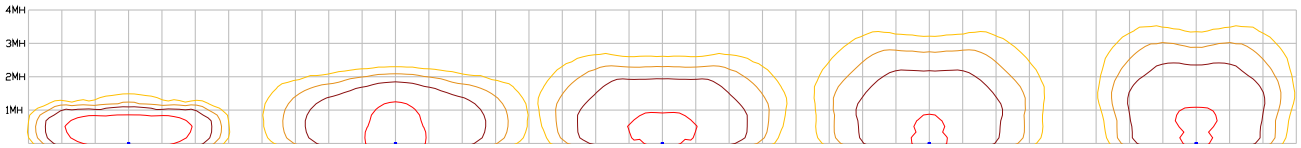
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit the Lithonia Lighting WDGE LED homepage. Tested in accordance with IESNA LM-79 and LM-80 standards.

LEGEND

0.25 fc
0.5 fc
1.0 fc
3.0 fc

MH = 10ft
Grid = 10ft x 10ft



"P3 40K 80CRI T1S" "P3 40K 80CRI T2M" "P3 40K 80CRI T3M" "P3 40K 80CRI T4M" "P3 40K 80CRI TFTM"

Emergency Egress Options

Emergency Battery Backup

The emergency battery backup is integral to the luminaire — no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product. All emergency battery backup configurations include an independent secondary driver with an integral relay to immediately detect loss of normal power and automatically energize the luminaire. The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time normal power is lost and maintain a minimum of 60% of the light output at the end of 90minutes.

Applicable codes: NFPA 70/NEC – section 700.16, NFPA 101 Life Safety Code Section 7.9

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Control / Sensor Options

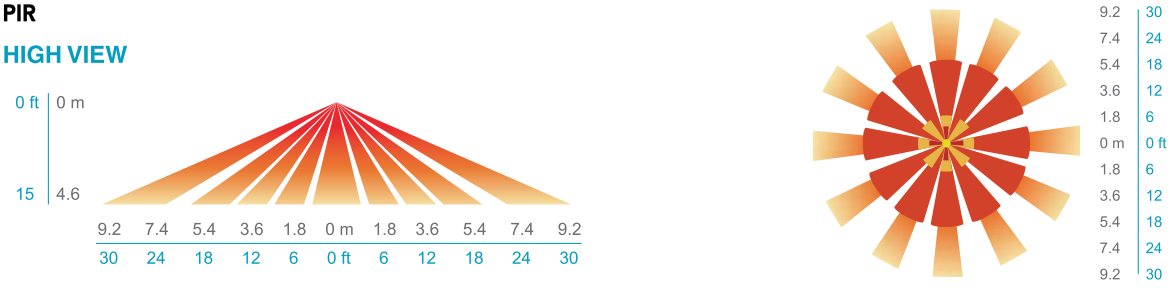
Motion/Ambient Sensor (PIR_, PIRH_)

Motion/Ambeint sensor (Sensor Switch MSOD) is integrated into the the luminaire. The sensor provides both Motion and Daylight based dimming of the luminaire. For motion detection, the sensor utilizes 100% Digital Passive Infrared (PIR) technology that is tuned for walking size motion while preventing false tripping from the environment. The integrated photocell enables additional energy savings during daytime periods when there is sufficient daylight. Optimize sensor coverage by either selecting PIR or PIRH option. PIR option comes with a sensor lens that is optimized to provide maximum coverage for mounting heights between 8-15ft, while PIRH is optimized for 15-40ft mounting height.

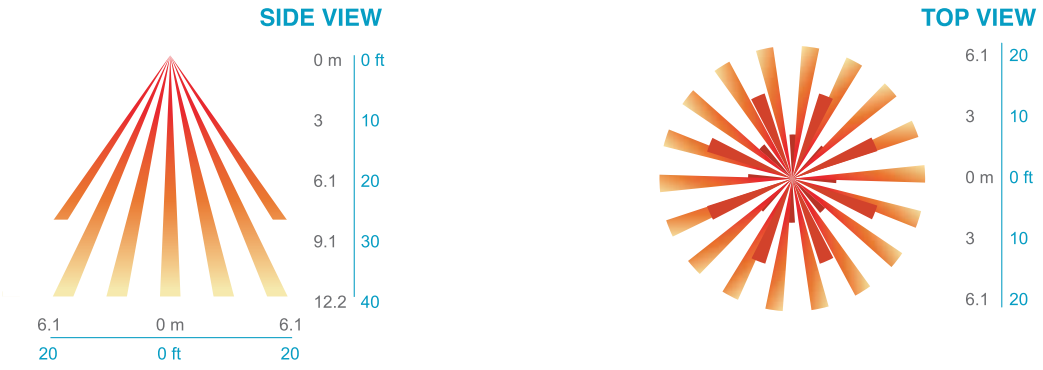
Networked Control (NLTAIR2)

nLight® AIR is a wireless lighting controls platform that allows for seamless integration of both indoor and outdoor luminaires. Five-tier security architecture, 900 MHz wireless communication and app (CLAIRITY™ Pro) based configurability combined together make nLight® AIR a secure, reliable and easy to use platform.

PIR



PIRH



Option	Dim Level	High Level (when triggered	Photocell Operation	Motion Time Delay	Ramp-down Time	Ramp-up Time
PIR or PIRH	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 5fc	5 min	5 min	Motion - 3 sec Photocell - 45 sec
PIR1FC3V, PIRH1FC3V	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 1fc	5 min	5 min	Motion - 3 sec Photocell - 45 sec
NLTAIR2 PIR, NLTAIR2 PIRH (out of box)	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 5fc	7.5 min	5 min	Motion - 3 sec Photocell - 45 sec

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Mounting, Options & Accessories

Motion/Ambient Sensor

D = 7"
H = 9" (Standalone controls)
11" (nLight AIR controls, 2" antenna will be pointing down behind the sensor)
W = 11.5"

PBBW – Surface-Mounted Back Box
Use when there is no junction box available.

D = 1.75"
H = 9"
W = 11.5"

AWS – 3/8inch Architectural Wall Spacer

D = 0.38"
H = 4.4"
W = 7.5"

FEATURES & SPECIFICATIONS

INTENDED USE
Common architectural look, with clean rectilinear shape, of the WDGE LED was designed to blend with any type of construction, whether it be tilt-up, frame or brick. Applications include commercial offices, warehouses, hospitals, schools, malls, restaurants, and other commercial buildings.

CONSTRUCTION
The single-piece die-cast aluminum housing integrates secondary heat sinks to optimize thermal transfer from the internal light engine heat sinks and promote long life. The driver is mounted in direct contact with the casting for a low operating temperature and long life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP66 rating for the luminaire.

FINISH
Exterior painted parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Standard Super Durable colors include dark bronze, black, natural aluminum, sandstone and white. Available in textured and non-textured finishes.

OPTICS
Individually formed acrylic lenses are engineered for superior application efficiency which maximizes the light in the areas where it is most needed. The WDGE LED has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL
Light engine consists of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L91/100,000 hours at 25°C). The electronic driver has a power factor of >90%, THD <20%. Luminaire comes with built in 6kV surge protection, which meets a minimum Category C low exposure (per ANSI/IEEE C62.41.2). Fixture ships standard with 0-10v dimmable driver.

INSTALLATION
A universal mounting plate with integral mounting support arms allows the fixture to hinge down for easy access while making wiring connections. The 3/8" Architectural Wall Spacer (AWS) can be used to create a floating appearance or to accommodate small imperfections in the wall surface. The ICW option can be used to mount the luminaire inverted for indirect lighting in dry and damp locations. Design can withstand up to a 1.5 G vibration load rating per ANSI C136.31.

LISTINGS
CSA certified to U.S. and Canadian standards. Luminaire is IP66 rated. PIR options are rated for wet location. Rated for -40°C minimum ambient. DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified. International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 2700K and 3000K color temperature only and SRM mounting only.

BUY AMERICAN ACT
Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations.
Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY
5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at:
www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

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IES ROAD REPORT
PHOTOMETRIC FILENAME : WDGE2 LED P2 40K 70CRI T2M.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] ISF 21566P22
[ISSUEDATE] 7/14/2021
[TESTLAB] ACUITY BRANDS LIGHTING, DECATUR LAB
[MANUFAC] Lithonia Lighting
[LUMCAT] WDGE2 LED P2 40K 70CRI T2M
[LUMINAIRE] WDGE2 LED WITH P2 - PERFORMANCE PACKAGE, 4000K, 70CRI, TYPE 2 MEDIUM OPTIC
[DISTRIBUTION] TYPE III, MEDIUM, BUG RATING: B1 - U0 - G1
[_TOTALLUMINAIRELUMENS] 2326
[_INPUTWATTAGE] 18.9815
[_LAMPTYPE] LED
[_MOUNTING] WALL MOUNT
[_PHYSICALDIMENSIONS] 0.41, 0.62, 0
[_PRODUCTID] bf36d8d8-511e-42d3-96f9-d87162a5d4aa
[_SERIES] WDGE2
[_SERIESID] 993532

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Medium
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2326
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	18.9815
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1879.621
Maximum Candela Angle	75H 70V
Maximum Candela (<90 Degrees Vertical)	1879.621
Maximum Candela Angle (<90 Degrees Vertical)	75H 70V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	425.469 (18.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	150.6	N.A.	6.5
FM - Front-Medium (30-60)	833.8	N.A.	35.8
FH - Front-High (60-80)	791.0	N.A.	34.0
FVH - Front-Very High (80-90)	26.9	N.A.	1.2
BL - Back-Low (0-30)	100.0	N.A.	4.3
BM - Back-Medium (30-60)	232.8	N.A.	10.0
BH - Back-High (60-80)	174.4	N.A.	7.5
BVH - Back-Very High (80-90)	16.9	N.A.	0.7
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	2326.4	N.A.	100.0
BUG Rating	B1-U0-G1		

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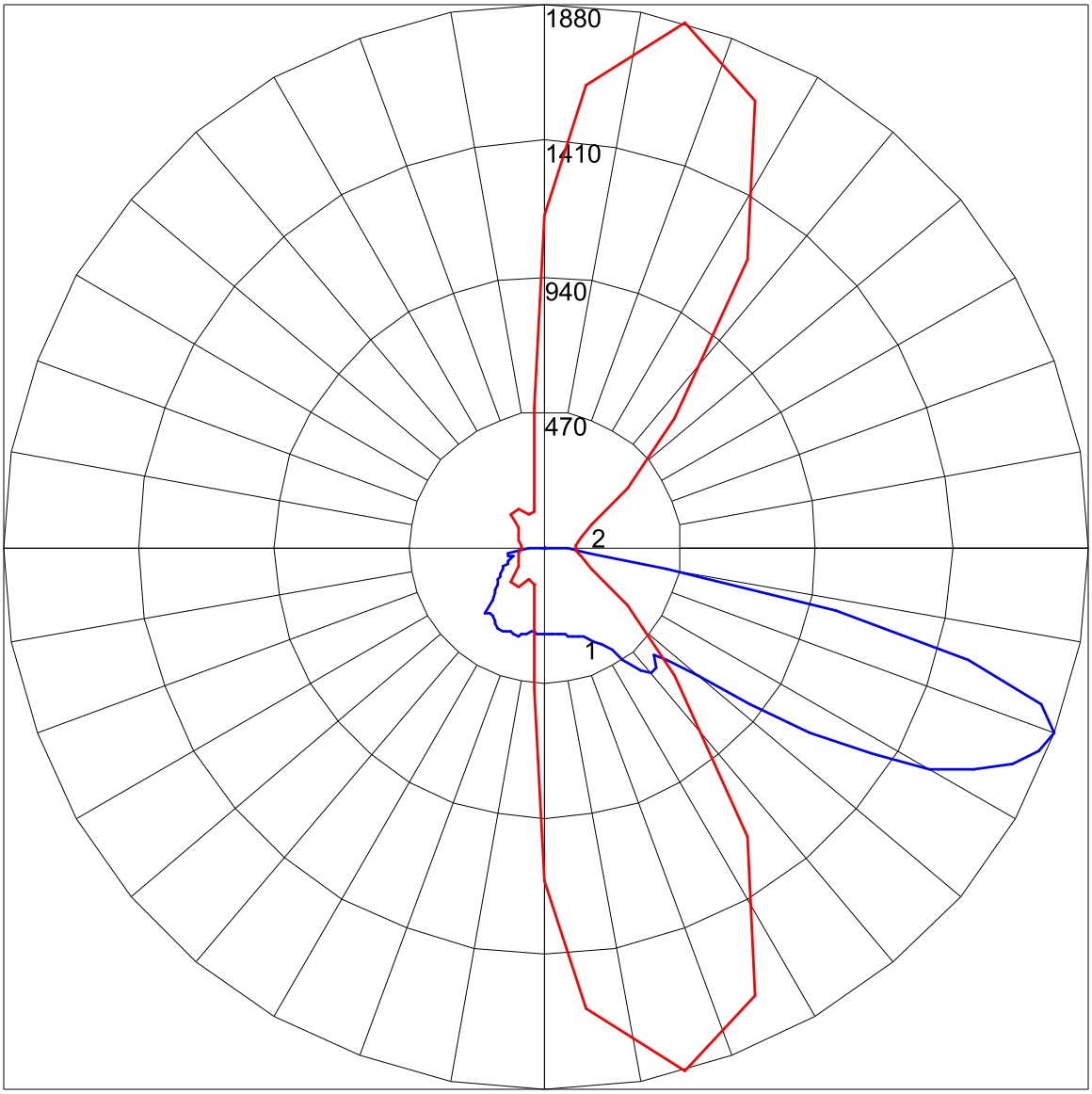
POLAR GRAPH



Maximum Candela = 1879.621 Located At Horizontal Angle = 75, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (75 - 255) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

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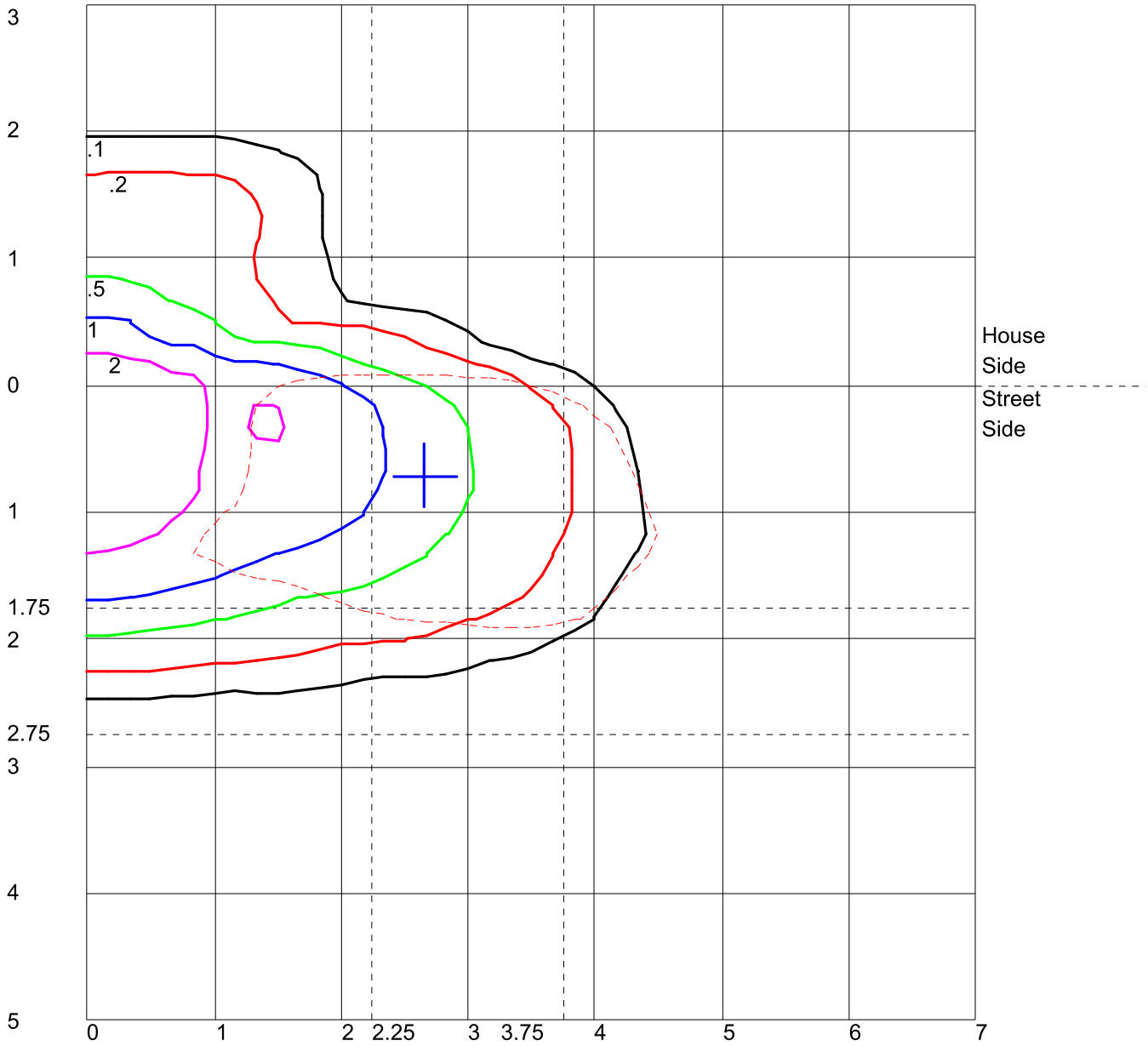
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



Distance In Units Of Mounting Height
Values Based On 10 Foot Mounting Height
1/2 Maximum Candela Trace Shown As Dashed Curve
(+) = Maximum Candela Point

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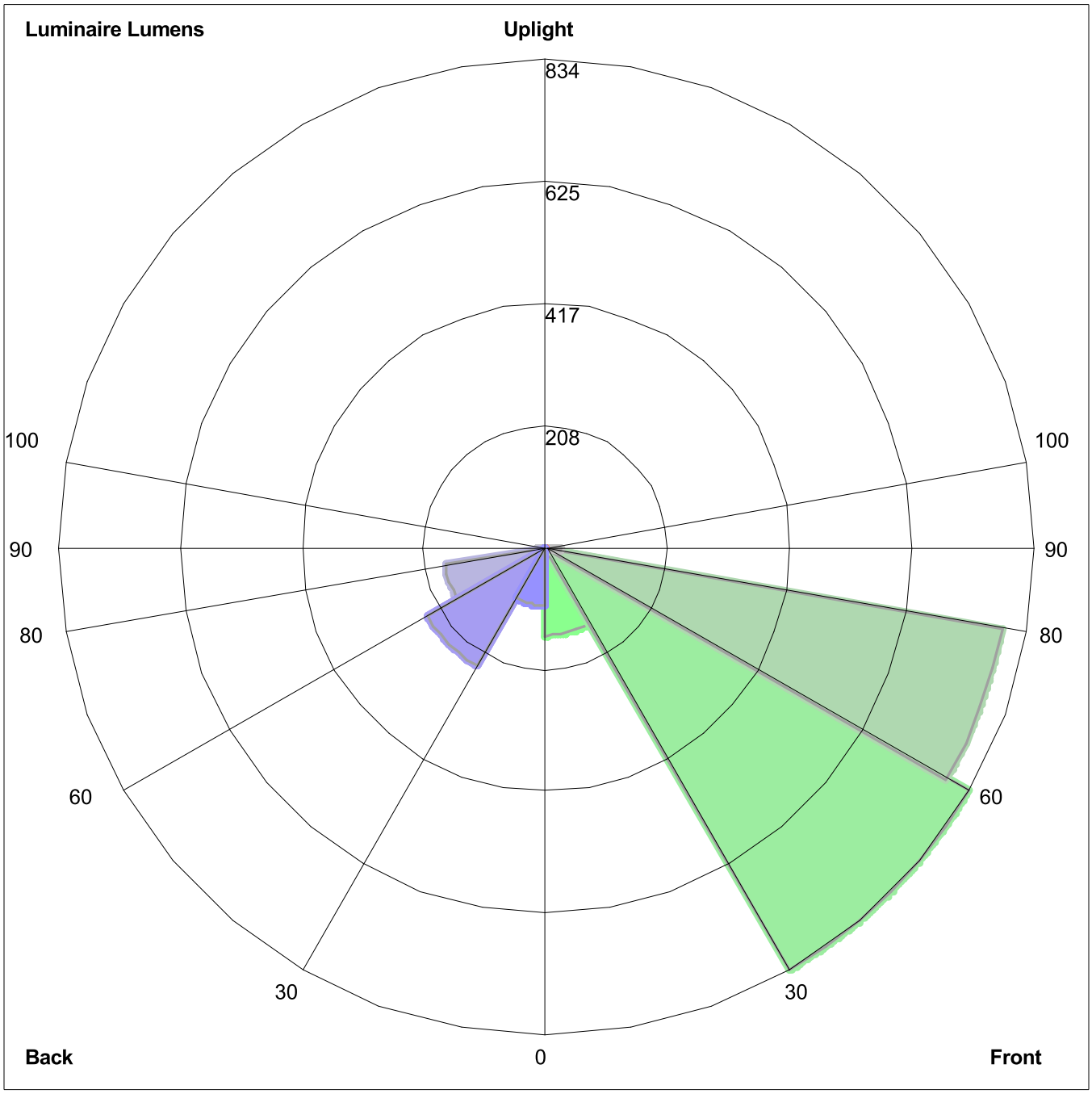
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=150.6, Medium=833.8, High=791.0, Very High=26.9
Back: Low=100.0, Medium=232.8, High=174.4, Very High=16.9
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G1

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