

# URBAN DESIGN COMMISSION APPLICATION

# UDC

City of Madison  
Planning Division  
126 S. Hamilton St.  
P.O. Box 2985  
Madison, WI 53701-2985  
(608) 266-4635



Complete all sections of this application, including the desired meeting date and the action requested.

*If you need an interpreter, translator, materials in alternate formats or other accommodations to access these forms, please call the phone number above immediately.*

## FOR OFFICE USE ONLY:

Paid \_\_\_\_\_ Receipt # \_\_\_\_\_

Date received \_\_\_\_\_

Received by \_\_\_\_\_

Aldermanic District \_\_\_\_\_

Zoning District \_\_\_\_\_

Urban Design District \_\_\_\_\_

Submittal reviewed by \_\_\_\_\_

## 1. Project Information

Address: 650 Forward Drive, Madison WI

Title: Exact Sciences Production Lab - Phase 2

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

UDC meeting date requested January 24, 2017

- ☐ 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)  
☐ Signage Variance (i.e. modification of signage height, area, and setback)

### Other

- ☐ Please specify \_\_\_\_\_

## 4. Applicant, Agent, and Property Owner Information

**Applicant name** Jody Shaw **Company** Potter Lawson  
**Street address** 749 University Row Suite 300 **City/State/Zip** Madison, WI 53705  
**Telephone** 608 274-2741 **Email** jodys@potterlawson.com

**Project contact person** Joel Schriever **Company** Exact Sciences  
**Street address** 441 Charmany Drive **City/State/Zip** Madison, WI 53719  
**Telephone** 608 284-5700 **Email** jschriever@exactsciences.com

**Property owner (if not applicant)** CG Growth  
**Street address** 441 Charmany Drive **City/State/Zip** Madison, WI 53719  
**Telephone** 608 284-5700 **Email** scoward@exactsciences.com

## 5. Required Submittal Materials

- ☒ **Application Form**
- ☒ **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 CDR or Signage Variance review criteria is required.
- ☒ **Development plans** (Refer to checklist provided below for plan details)
- ☒ **Filing fee**
- ☒ **Electronic Submittal\***

Each submittal must include fourteen (14) 11" x 17" collated paper copies. Landscape and Lighting plans (if required) must be full-sized. Please refrain from using plastic covers or spiral binding.

Both the paper copies and electronic copies must be submitted prior to the application deadline before an application will be scheduled for a UDC meeting. Late materials will not be accepted. 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. All plans must be legible when reduced.

*\*Electronic copies of all items submitted in hard copy are required. Individual PDF files of each item submitted should be compiled on a CD or flash drive, or submitted via email to [udcapplications@cityofmadison.com](mailto:udcapplications@cityofmadison.com). The email must include the project address, project name, and applicant name. Electronic submittals via file hosting services (such as Dropbox.com) are not allowed. Applicants who are unable to provide the materials electronically should contact the Planning Division at (608) 266-4635 for assistance.*

## 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 UDC - Informational Presentation on 12/06/2017.
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.

Applicant name Jody Shaw Relationship to property Architect  
 Authorized signature of Property Owner [Signature] Date 12/20/2017

## 7. Application Filing Fees

Fees are required to be paid with the first application for either initial or final approval of a project, unless the project is part of the combined application process involving the Urban Design Commission in conjunction with Plan Commission and/or Common Council consideration. Make checks payable to City Treasurer. Credit cards may be used for application fees of less than \$1,000.

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

- ☒ Urban Design Districts: \$350 (per §35.24(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 signage variances (i.e. modifications of signage 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

## 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. Applicants may, at their discretion, request to make an Informational Presentation to the UDC prior to seeking any approvals to obtain early feedback and direction before undertaking detailed design. 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 Variance 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 what 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

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.

When presenting projects to the UDC, applicants must fill out a registration slip provided in the meeting room and present it to the Secretary. Presentations should generally be limited to 5 minutes or as extended by motion by consent of the Commission. The Commission will withhold questions until the end of the presentation.

Applicants are encouraged to consider the use of various graphic presentation material including a locator map, photographs, renderings/model, scale drawings of the proposal in context with adjacent buildings/uses/signs, etc., as may be deemed appropriate to describe the project and its surroundings. Graphics should be mounted on rigid boards so that they may be easily displayed. **Applicants/presenters are responsible for all presentation materials, AV equipment and easels.**

# URBAN DESIGN DEVELOPMENT PLANS CHECKLIST

The items listed below are minimal 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 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
- ☐ 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 (include material 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
- ☒ Proposed Signage (if applicable)
- ☒ 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)
- ☐ PD text and Letter of Intent (if applicable)
- ☒ Samples of the exterior building materials (presented at the UDC meeting)

## 4. Comprehensive Design Review (CDR) and Variance Requests (Signage applications only)

- ☐ Locator Map
- ☐ Letter of Intent (a summary of how the proposed signage is consistent with the CDR or Signage Variance 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)
- ☐ Graphic of the proposed signage as it relates to what the Ch. 31, MGO would permit





December 20, 2017

City of Madison  
Urban Design Commission  
126 South Hamilton Street  
Madison, WI 53703

Re: 650 Forward Drive, Madison WI 53711  
Exact Sciences Production Lab - Phase 2

Dear Commission Members:

Please accept this Letter of Intent, Application and attachments as our submittal for an initial and final approval presentation/ request on the Phase 2 of the Clinical Lab Facility, the Production Lab for Exact Sciences.

**Project Team**

Owner:

Exact Sciences  
441 Charmany Drive  
Madison, WI 53719  
(608) 284-5700

Owner's Representative:

General Capital Group  
Steve Sirkis  
6938 N Santa Monica Blvd.  
Fox Point, WI 53217  
(414) 228-3509  
[ssirkis@generalcapitalgroup.com](mailto:ssirkis@generalcapitalgroup.com)

Architect:

Jody Shaw  
Potter Lawson, Inc.  
749 University Avenue, Suite 300  
Madison, Wisconsin 53705  
(608) 274-2741  
[Jodys@Potterlawson.com](mailto:Jodys@Potterlawson.com)

Civil Engineer:

Joseph Doyle  
Vierbicher Associates Inc.  
999 Fourier Dr # 201,  
Madison, WI 53717  
(608) 826-0532  
[jdoyle@vierbicher.com](mailto:jdoyle@vierbicher.com)

Landscape Architect:

Suzanne Vincent  
Vierbicher Associates Inc.  
999 Fourier Dr # 201,  
Madison, WI 53717  
(608) 826-0532  
[svin@vierbicher.com](mailto:svin@vierbicher.com)

Contractor:

Bob Hougard  
J.H. Findorff & Son  
300 S. Bedford St.  
Madison, WI 53703  
(608) 257-5321  
[bhougard@findorff.com](mailto:bhougard@findorff.com)

### **The Existing Conditions**

The Production Lab is an addition to the Phase 1 Clinical Lab building. It is located on the Northeast corner of the Clinical Lab, completing the Clinical Lab geometry by infilling the area north of the Lab Support function, and east of the Clinical Lab. The Production Lab extends north of the Clinical Lab and creates an employee entrance on the north side of the Facility that is directly adjacent to the surface parking lot approved in a previous submittal.

### **Staff and Neighborhood Input**

The Development Team has met with the City Staff on October 31, 2017 to review the project and schedule. The Development Team is also meeting with the DAT on November 16, 2017 to discuss the site plan. The Development Team has also notified Alder Clear with an email on October 26, 2017 of our intention to begin the approval process for the Production Lab. On December 06, 2017 the Development Team met with the Urban Design Commission for an informational presentation.

### **Project Overview**

Exact Sciences Corporation is a molecular diagnostics company focused on the early detection and prevention of the deadliest forms of cancer. The company has exclusive intellectual property protecting Cologuard, its non-invasive, molecular screening technology for the detection of colorectal cancer.

As described in previous submittals, the first phase of the Clinical Processing Center creates the Specimen Processing lab for the Cologuard test, and creates the shell space for potential future tests that are currently under research. This project, the Phase 2 Production Lab creates the lab space used to produce the materials and solutions required in the Clinical Lab to perform the Cologuard test.

The site is listed as an "SE" zoning district and the proposed uses are allowed, so no zoning conditional uses or variances are being requested.

The Production Lab is a two story Facility that matches the height of the Phase 1 Facility and continues the material language using precast concrete, translucent and transparent glazing and metal panel.

The Phase 2 Production Lab includes 71,500 GSF of production laboratory and office space. This includes:

|                            |           |
|----------------------------|-----------|
| Office/entry               | 21,000 SF |
| Production Lab and support | 46,500 SF |
| Mechanical Penthouse       | 4,000 SF  |

As described above, this facility is an addition to the Clinical Lab and shares the same address and the main public entry on Forward Drive as created with Phase 1. A new employee entry is being constructed as part of the Production Lab that provides entrance to the entire Clinical Lab facility. This project also includes a terraced patio that functions as an employee amenity which provides direct access to the outdoors for the Clinical and Production Lab employees. The terraced patio also serves as a venue for outdoor meetings, larger group discussions, outdoor lunch seating and becomes a link to the future amenity building being planned just north of the Clinical Lab. Located in the heart of the Campus, this outdoor space is planned to become a central part of the employee amenities.

There is no new parking associated with this addition, and loading is accounted for with the Phase 1 Clinical Lab.

## **Working within the Urban Design District Number 2**

**Grading:** The UDD2 requires positive drainage that allows for natural vegetation growth and appears natural. Due to the length of the building, and the necessity to have a continuous floor level, the building will be set into the grade of the site. The north side of the Production Lab is set into the grades approximately 10', matching the Clinical Lab. The new grades will be sloped to the existing grades where ever possible to reduce the potential for site retaining walls, and maintain a natural appearance.

**Landscape:** Shall be used to frame attractive views from roadways and to screen different uses from each other and to complement the architectural massing of the building. Species will be as prescribed by the Urban Design District Number 2. There are a number of existing walking paths through the southern portion of the site. The proposed Terrace patio will provide a link to those paths so that employees can use the pathways for "walking meetings" or lunch time exercise.

**Structures:** Buildings will be placed on the site to reinforce the natural contours of the site with the natural slope of the site towards the south. Buildings will be within scale of the existing neighborhood development, staying within one story height of the existing Rayovac building, and matching the height of the Phase 1 Clinical Lab. This is consistent with the low profile nature of the community.

**Lighting:** Building lighting will meet City of Madison ordinances and the Urban Design District Number 2 guidelines by providing glare free lighting in a minimal and attractive manner.

**Screening:** Parking and loading have been approved in previous projects. Mechanical units are being placed within the mass of the building, in a mechanical penthouse. Some of the lab functions will require exhaust stacks that will extend 10' above the roof any screening. These stacks will be groups as much as possible to provide an orderly image in keeping with the aesthetics of the building.

**Building Design:** Exterior building materials will use natural concrete and metal panels to create a façade that works within the context of the existing community, and set the tone for future additions to the campus. The building itself will be set into the slope of the site, reducing the overall mass of the building and keeping in context with the low profile character of the existing development

**Sustainability:** The project is seeking LEED Certification with a goal of a LEED v4 Certification.

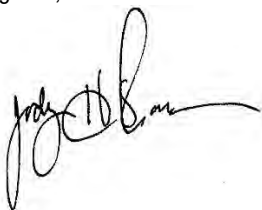
The building has extensive use of natural light throughout the warehouse area to reduce electric power needs. However, due to the nature of the laboratory building, the ventilation demands require the most Focus on Energy saving strategies. Variable flow fans throughout, energy recovery and variable flow exhaust stacks are some of the strategies being pursued. The facility will be built to high energy efficiency standards, including insulation, HVAC, and LED lighting. The Development Team will consult with Focus on Energy to ensure the project capitalizes on any other available technologies.

An extensive wet pond and infiltration pond was designed as part of the Phase 1 Clinical Lab and it accounts for all of the stormwater collection for this facility.

### **Requested Approval**

With your review on our building and site design, we are looking for initial and final approval. We look forward to providing Exact Sciences with the Second Phase of their Clinical Laboratory Facility.

Regards,

A handwritten signature in black ink, appearing to read "Jody Shaw", with a stylized flourish at the end.

Jody Shaw, AIA LEED AP  
Potter Lawson, Inc.



Manufacturing and Clinical Lab Facility - Madison  
2017.01.04  
December 20, 2017

## Production Lab Facility at 650 Forward Drive

UDC Initial / Final Approval Submittal  
12.20.2017



Sustainable by Design





Aerial View  
Manufacturing and Clinical Lab Facility - Madison  
2017.01.04  
December 20, 2017





Aerial View  
Manufacturing and Clinical Lab Facility - Madison  
2017.01.04  
December 20, 2017



Aerial Context Views  
 Manufacturing and Clinical Lab Facility - Madison  
 2017.01.04  
 December 20, 2017



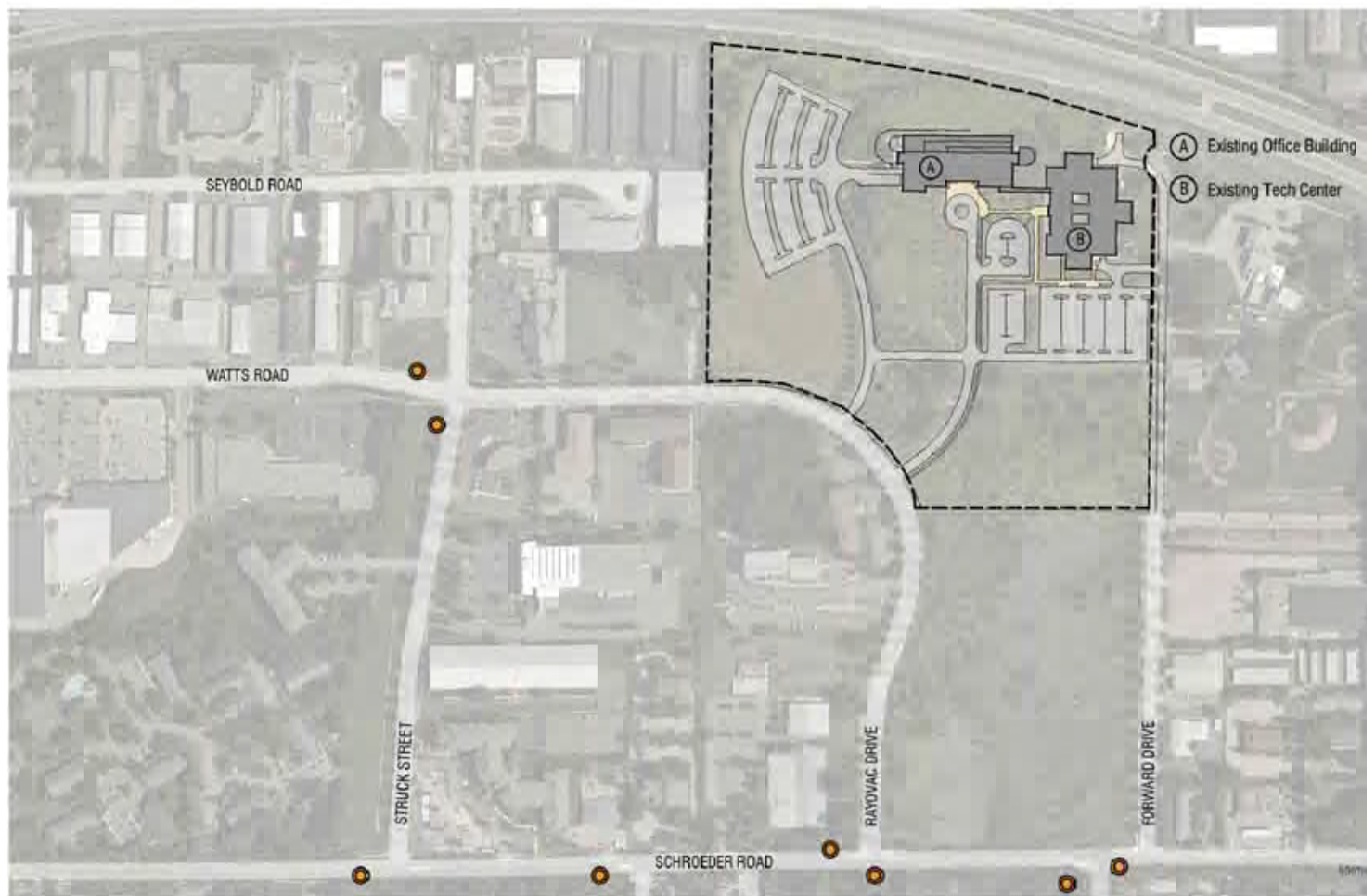


Context Views  
 Manufacturing and Clinical Lab Facility - Milford  
 2017.01.04  
 December 20, 2017



Context Views  
 Manufacturing and Clinical Lab Facility - Madison  
 2017.01.04  
 December 20, 2017





## EXISTING INFORMATION

Manufacturing and Clinical Lab Facility - Madison  
 2017.01.04  
 December 20, 2017

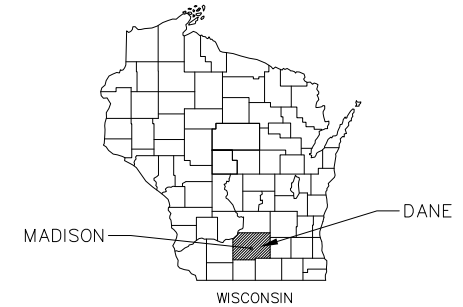
# Exact Sciences Production Lab

## 650 Forward Drive

MADISON, DANE COUNTY, WISCONSIN



PROJECT LOCATION



### Drawing Index

| Sheet Title         | Sheet Number |
|---------------------|--------------|
| Title Sheet         | 1            |
| Existing Conditions | 2            |
| Demolition Plan     | 3            |
| Site Plan           | 4            |
| Grading Plan        | 5            |
| Utility Plan        | 6            |
| Landscape Plan      | 7            |

### SITE BENCHMARKS

1. TOP NUT OF EX. HYDRANT LOCATED AT NE CORNER OF NW PARKING LOT  
ELEV = 1054.047
2. PK NAIL LOCATED ON CENTERLINE OF WESTERN PRIVATE DRIVE, APPROX 412' FROM WATTS RD CENTERLINE  
ELEV = 1057.697
3. PK NAIL LOCATED ON WEST SIDE OF ENTRANCE DRIVE APPROX 36' FROM WATTS RD CENTERLINE  
ELEV = 1045.067



THE LOCATION OF EXISTING UTILITIES, BOTH UNDERGROUND AND OVERHEAD ARE APPROXIMATE ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT, BEFORE COMMENCING WORK, AND SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES.

CALL DIGGER'S HOTLINE  
1-800-242-8011



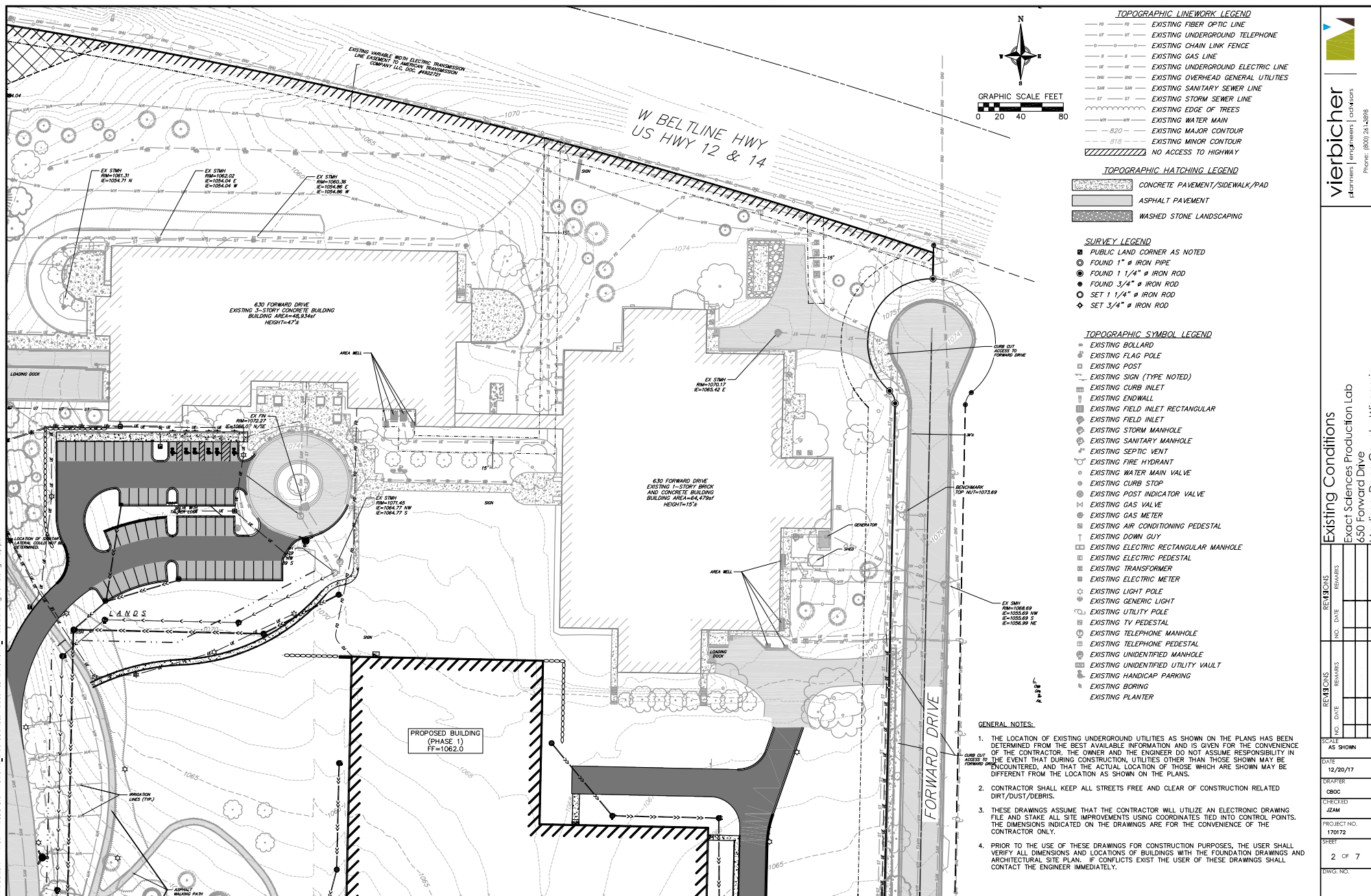
**vierbicher**  
planners | engineers | architects  
Phone: (800) 242-8088

### Title Sheet

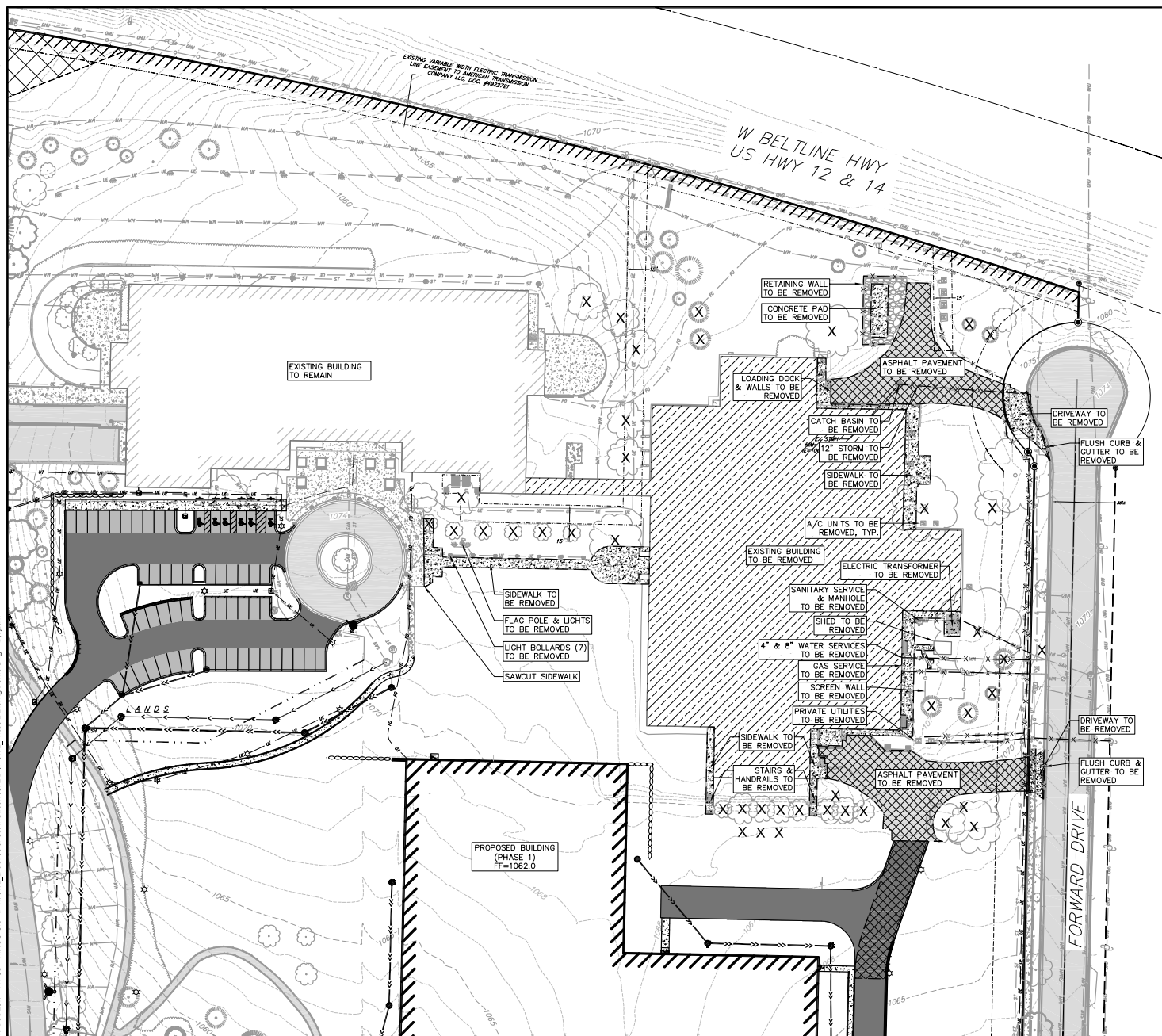
Exact Sciences Production Lab  
650 Forward Drive  
Madison, Dane County, Wisconsin

| REVISIONS |      | REVISIONS |      |
|-----------|------|-----------|------|
| NO.       | DATE | NO.       | DATE |
|           |      |           |      |
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|             |
|-------------|
| SCAFFOLDING |
| AS SHOWN    |
| DATE        |
| 12/20/17    |
| DRAWN       |
| CBG         |
| CHECKED     |
| JAM         |
| PROJECT NO. |
| 170172      |
| SHEET       |
| 1 OF 7      |
| DWG. NO.    |

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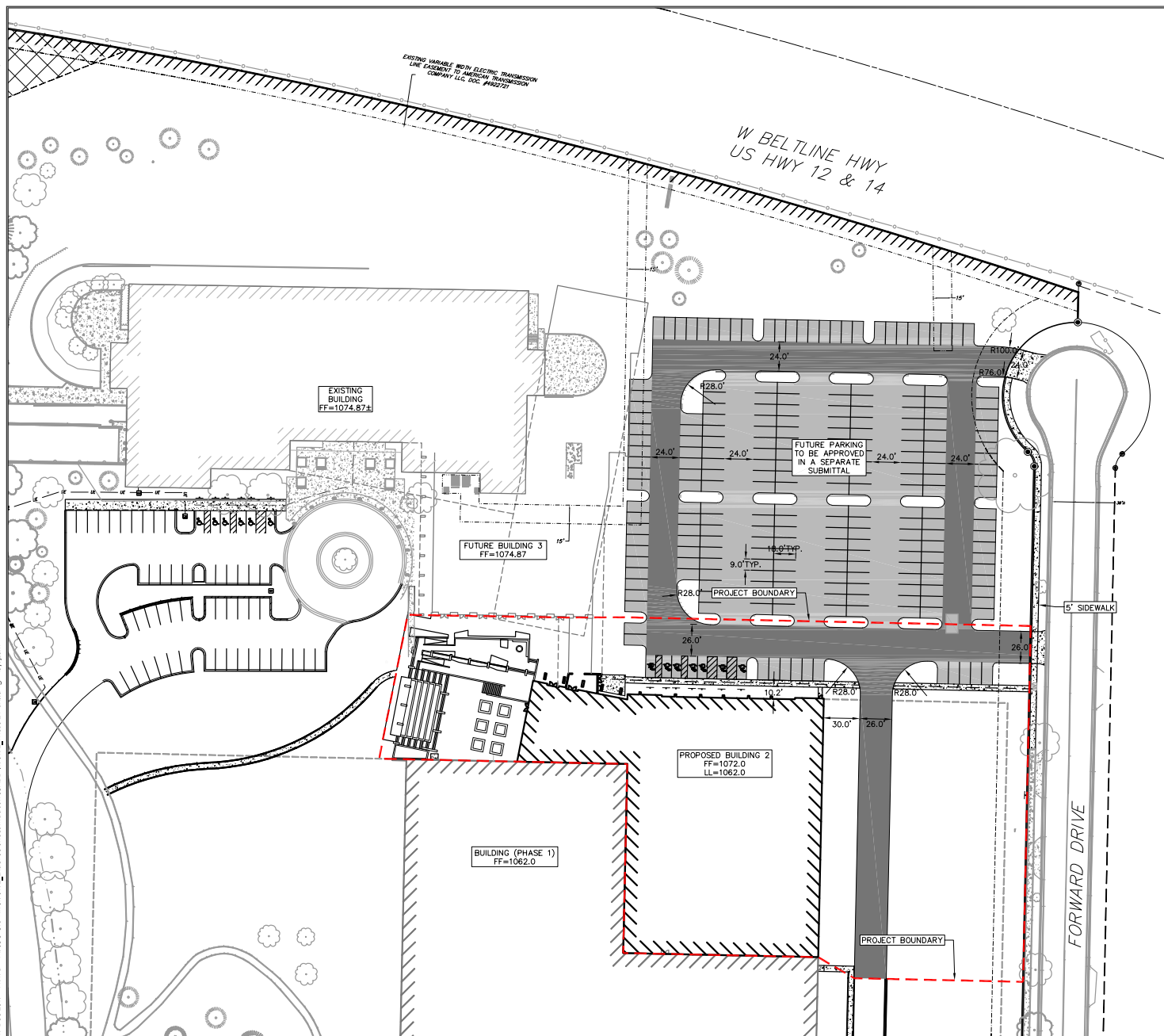
DEMOLITION PLAN LEGEND

- |                                                                                     |                           |
|-------------------------------------------------------------------------------------|---------------------------|
|  | CURB AND GUTTER REMOVAL   |
|  | BUILDING REMOVAL          |
|  | ASPHALT REMOVAL           |
|  | CONCRETE REMOVAL          |
|  | TREE REMOVAL              |
|  | SAWCUT                    |
|  | UTILITY STRUCTURE REMOVAL |
|  | UTILITY LINE REMOVAL      |

GENERAL NOTES:

1. THE LOCATION OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THE PLANS HAS BEEN DETERMINED FROM THE BEST AVAILABLE INFORMATION AND THE USER ACCEPTS THE CONVENIENCE OF THE CONTRACTOR. THE OWNER AND THE ENGINEER DO NOT ASSUME RESPONSIBILITY IN THE EVENT THAT OTHER UNDISCOVERED UTILITIES OTHER THAN THOSE SHOWN MAY BE ENCOUNTERED, AND THAT THE ACTUAL LOCATION OF UTILITIES WHICH ARE SHOWN MAY BE DIFFERENT FROM THE LOCATION AS SHOWN ON THE PLANS.
2. CONTRACTOR SHALL KEEP ALL STREETS FREE AND CLEAR OF CONSTRUCTION RELATED DIRT/DUST/DEBRIS.
3. THESE DRAWINGS ASSUME THAT THE CONTRACTOR SHALL UTILIZE AN ELECTRONIC DRAWING FILE AND STAKE ALL SITE IMPROVEMENTS USING COORDINATES TIED INTO CONTROL POINTS. THE CONTRACTOR SHALL INDICATE THE LOCATION OF ALL STAKES FOR THE CONVENIENCE OF THE CONTRACTOR ONLY.
4. PRIOR TO THE USE OF THESE DRAWINGS FOR CONSTRUCTION PURPOSES, THE USER SHALL VERIFY ALL DIMENSIONS AND LOCATIONS OF BUILDINGS WITH THE RECORD PLANS, SURVEYING AND ARCHITECTURAL SITE PLAN. IF CONFLICTS EXIST, THE USER OF THESE DRAWINGS SHALL CONTACT THE ENGINEER IMMEDIATELY.

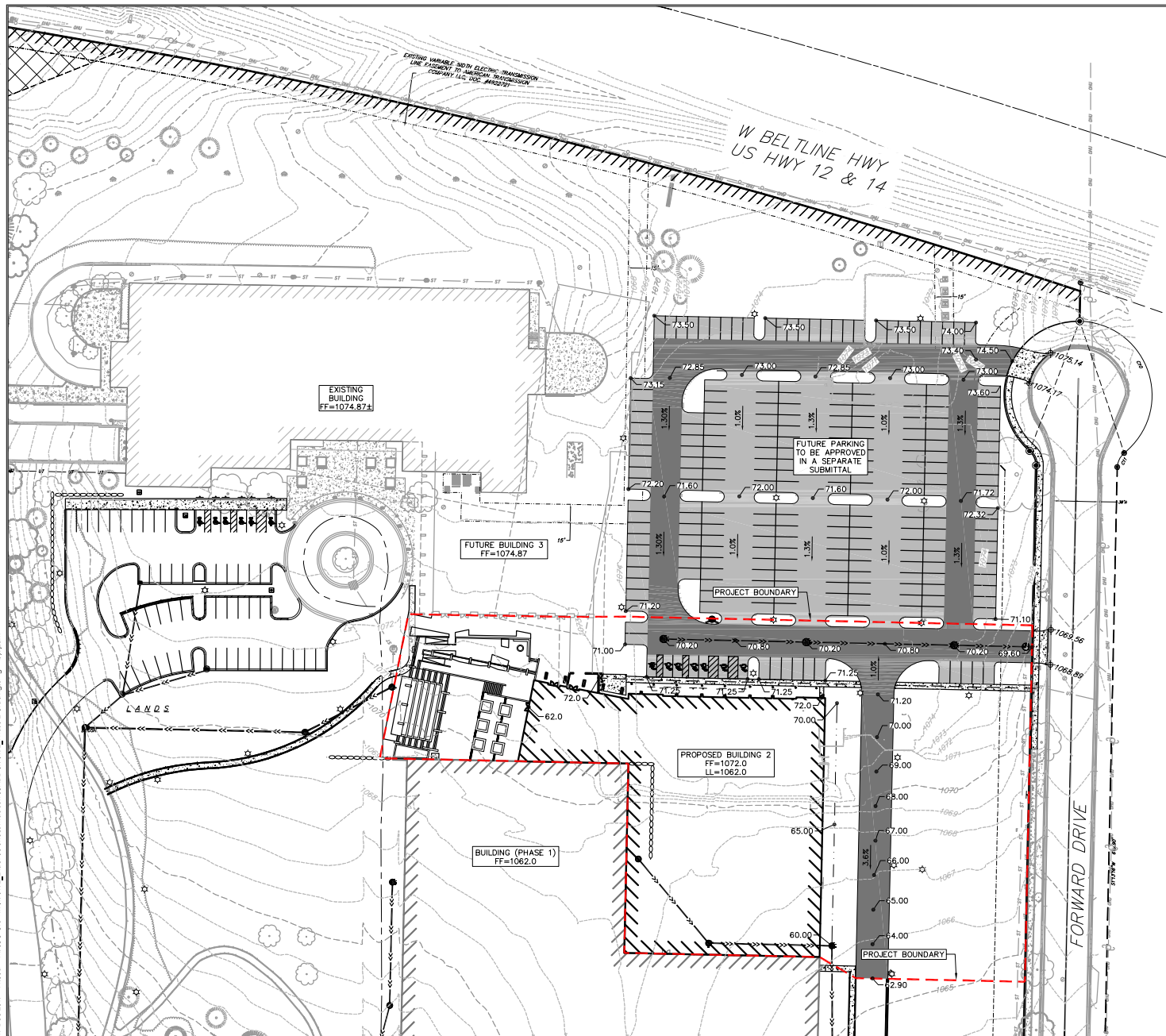
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| SCALE       |  | AS SHOWN |  |
| DATE        |  | 12/20/17 |  |
| DRAFTER     |  | CBOC     |  |
| CHECKED     |  | JZAM     |  |
| PROJECT NO. |  | 170172   |  |
| SHEET       |  | 3 OF 7   |  |
| DWGS. NO.   |  |          |  |



SITE PLAN LEGEND

- |                                                                                     |                                                             |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------|
|  | PROPERTY BOUNDARY<br>CURB AND GUTTER (REVERSE CURB HATCHED) |
|  | RETAINING WALL                                              |
|  | PROJECT BOUNDARY                                            |
|  | ACCESSIBLE ROUTE                                            |
|  | PROPOSED CONCRETE                                           |
|  | PROPOSED LIGHT-DUTY ASPHALT                                 |
|  | PROPOSED HEAVY-DUTY ASPHALT                                 |
|  | PROPOSED LIGHT POLE                                         |
|  | PROPOSED BOLLARD                                            |
|  | PROPOSED ADA DETECTABLE WARNING FIELD                       |
|  | PROPOSED HANDICAP PARKING                                   |

|             |  |           |      |           |      |
|-------------|--|-----------|------|-----------|------|
| SCALE       |  | REVISIONS |      | REVISIONS |      |
| AS SHOWN    |  | NO.       | DATE | NO.       | DATE |
| DATE        |  |           |      |           |      |
| 12/20/17    |  |           |      |           |      |
| DRAWN BY    |  |           |      |           |      |
| CBOC        |  |           |      |           |      |
| CHECKED     |  |           |      |           |      |
| JZAM        |  |           |      |           |      |
| PROJECT NO. |  |           |      |           |      |
| 170172      |  |           |      |           |      |
| SHEET       |  |           |      |           |      |
| 4 OF 7      |  |           |      |           |      |
| DWGS. NO.   |  |           |      |           |      |



### GRADING LEGEND

- 820--- EXISTING MAJOR CONTOURS  
 ---818--- EXISTING MINOR CONTOURS  
 (520) PROPOSED MAJOR CONTOURS  
 (818) PROPOSED MINOR CONTOURS  
 . . . . . DITCH CENTERLINE  
 — ■ — ■ — SILT FENCE  
 - - - - - PROJECT BOUNDARY

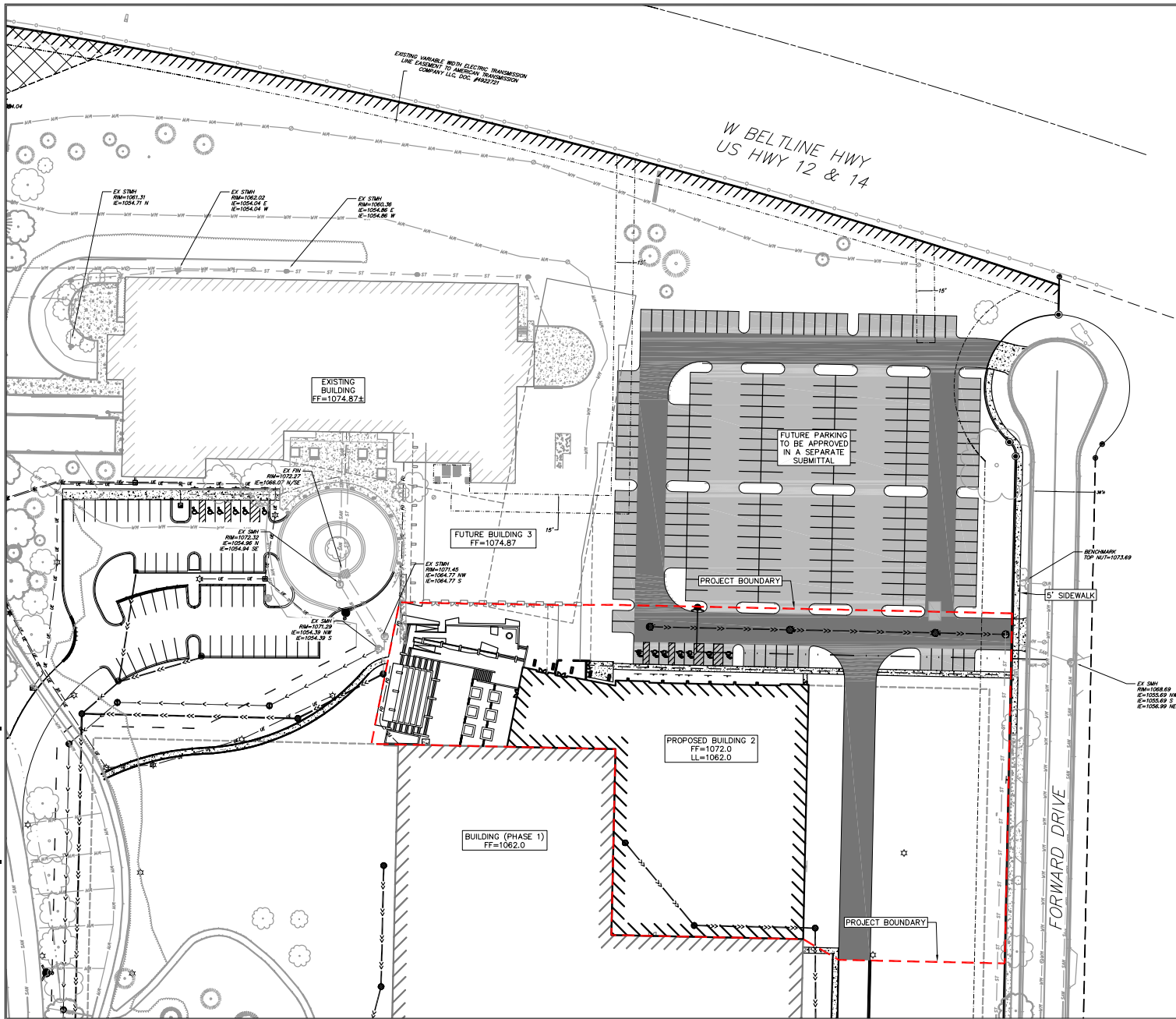
- |                                                                                             |                          |
|---------------------------------------------------------------------------------------------|--------------------------|
|          | DRAINAGE DIRECTION       |
| <u>2.92%</u>                                                                                | PROPOSED SLOPE ARROWS    |
|  1048.61 | EXISTING SPOT ELEVATIONS |
|  1048.61 | PROPOSED SPOT ELEVATIONS |

## ABBREVIATIONS

- TC - TOP OF CURB  
FF - FINISHED FLOOR  
FL - FLOW LINE  
SW - TOP OF WALK  
TW - TOP OF WALL  
BW - BOTTOM OF WALL

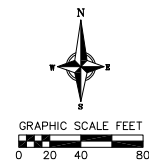
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|-------------|--|-----------|------|-----------|-----|
| SCALE       |  | REVISIONS |      | REVISIONS |     |
| AS SHOWN    |  | NO.       | DATE | REMARKS   | NO. |
| DATE        |  |           |      |           |     |
| 12/20/17    |  |           |      |           |     |
| DRAFTER     |  |           |      |           |     |
| OBCC        |  |           |      |           |     |
| CHECKED     |  |           |      |           |     |
| JZAM        |  |           |      |           |     |
| PROJECT NO. |  |           |      |           |     |
| 170172      |  |           |      |           |     |
| SHEET       |  |           |      |           |     |
| 5 OF 7      |  |           |      |           |     |
| DWG. NO.    |  |           |      |           |     |





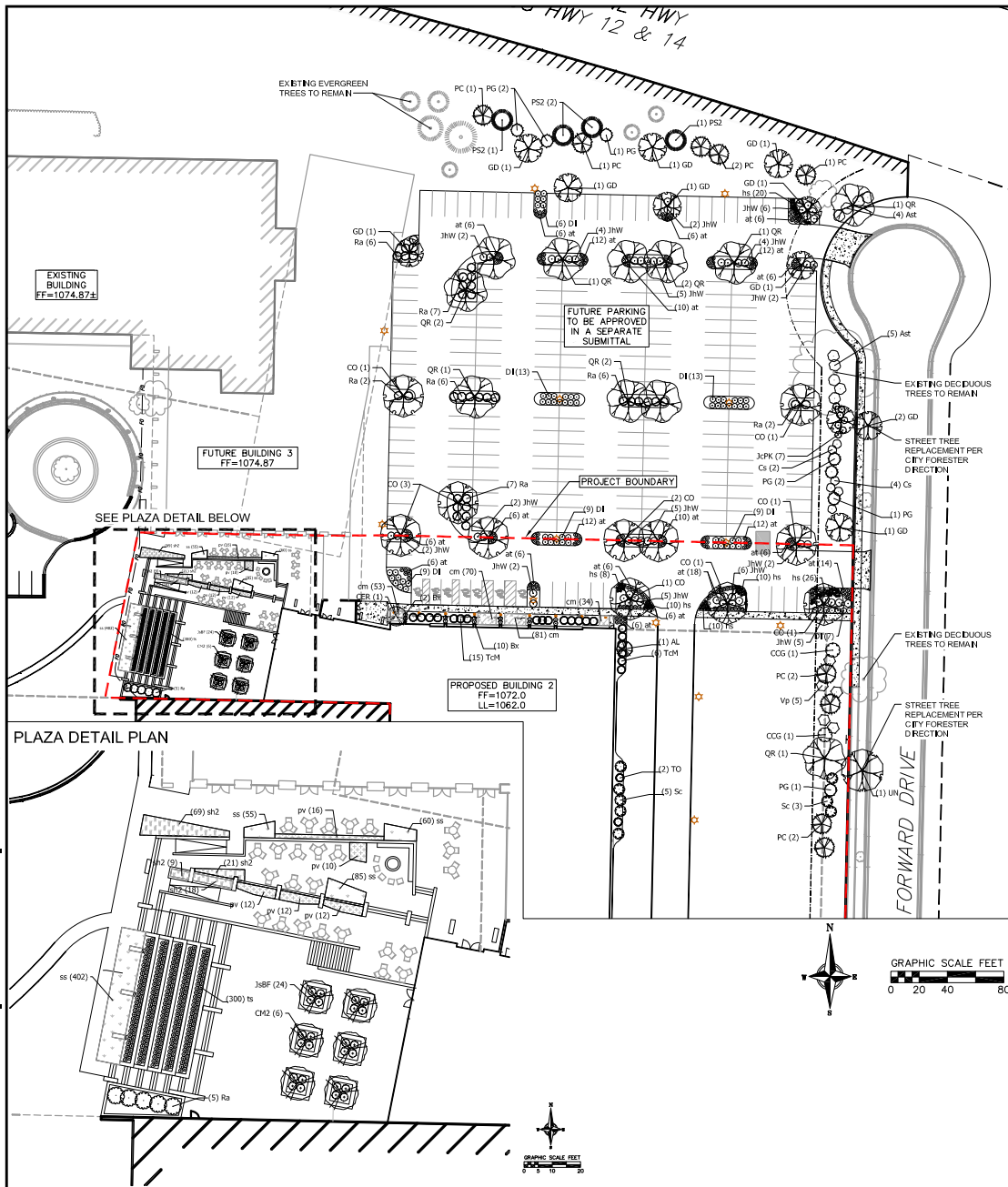
- PROPOSED UTILITY LEGEND**
- PROJECT BOUNDARY
  - STORM SEWER PIPE
  - STORM SEWER MANHOLE
  - STORM SEWER FIELD INLET
  - ROOF DRAIN CLEANOUT
  - SANITARY SEWER PIPE (GRAVITY)
  - SANITARY SEWER LATERAL PIPE
  - SANITARY SEWER MANHOLE
  - SANITARY SEWER CLEANOUT
  - WATER MAIN
  - WATER SERVICE LATERAL PIPE
  - FIRE HYDRANT
  - WATER VALVE
  - CURB STOP
  - WATER VALVE MANHOLE
  - GAS MAIN
  - ELECTRIC SERVICE

- ABBREVIATIONS**
- STMH - STORM MANHOLE
  - FI - FIELD INLET
  - CI - CURB INLET
  - CB - CATCH BASIN
  - EW - ENDWALL
  - SMH - SANITARY MANHOLE



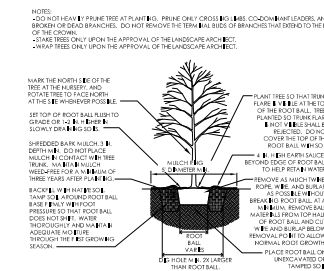
| REVISIONS |  | NO. | DATE | REMARKS |
|-----------|--|-----|------|---------|
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|           |  |     |      |         |
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|           |  |     |      |         |

|                       |
|-----------------------|
| SCALE<br>AS SHOWN     |
| DATE<br>12/20/17      |
| DRAWN<br>CBOC         |
| CHECKED<br>JZAM       |
| PROJECT NO.<br>170172 |
| SHEET<br>6 OF 7       |
| DWG. NO.              |

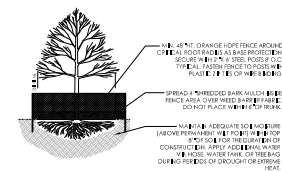


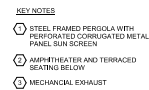
| DECIDUOUS TREES    |  | BOTANICAL NAME / COMMON NAME                                                             | CONT    | CAL               | SIZE   | QTY      |     |
|--------------------|--|------------------------------------------------------------------------------------------|---------|-------------------|--------|----------|-----|
| CO                 |  | <i>Celtis occidentalis</i> / Common Hackberry                                            | 8 & B   | 2.5" Cal          |        | 11       |     |
| QR                 |  | <i>Gymnocladus dioica</i> 'Espresso' / Kentucky Coffeetree                               | 8 & B   | 2.5" Cal          |        | 11       |     |
| QR                 |  | <i>Quercus rubra</i> / Red Oak                                                           | 8 & B   | 2.5" Cal          |        | 11       |     |
| UN                 |  | <i>Ulmus x 'New Horizon'</i> / New Horizon Elm                                           | 8 & B   | 2" Cal            |        | 1        |     |
| EVERGREEN TREES    |  | BOTANICAL NAME / COMMON NAME                                                             | CONT    | CAL               | SIZE   | QTY      |     |
| PG                 |  | <i>Picea glauca</i> / White Spruce                                                       | 8 & B   | 6" Ht.            |        | 7        |     |
| PC                 |  | <i>Picea pungens</i> / Colorado Spruce                                                   | 8 & B   | 6" Ht.            |        | 9        |     |
| PSJ                |  | <i>Pinus strobus</i> / White Pine                                                        | 8 & B   | 7" Ht.            |        | 4        |     |
| TO                 |  | <i>Thuja occidentalis</i> 'Wintergreen' / Wintergreen Arborvitae                         | 8 & B   | 7" Ht.            |        | 2        |     |
| FLOWERING TREES    |  | BOTANICAL NAME / COMMON NAME                                                             | CONT    | CAL               | SIZE   | QTY      |     |
| A                  |  | <i>Amelanchier canadensis</i> / Allegheny Serviceberry                                   | 8 & B   | 6" Ht. multi stem |        | 1        |     |
| CER                |  | <i>Cercis canadensis</i> / Eastern Redbud Mt. Rushmore                                   | 8 & B   | 6" Ht. multi stem |        | 1        |     |
| CCG                |  | <i>Cornus mas</i> / Cornelian Cherry Dogwood                                             | 8 & B   | 1.5" Cal          |        | 6        |     |
| CM2                |  | <i>Crataegus crus-galli</i> 'Inermis' / Thornless Hawthorn                               | 8 & B   | 2" Cal            |        | 2        |     |
| SHRUBS             |  | BOTANICAL NAME / COMMON NAME                                                             | SIZE    | FIELD2            | FIELD3 | QTY      |     |
| Ast                |  | <i>Amelanchier stolonifera</i> / Running Serviceberry                                    | 3 gal   | Cont.             |        | 9        |     |
| Cs                 |  | <i>Cornus sericea</i> / Red Twig Dogwood                                                 | 5 gal   |                   |        | 6        |     |
| JcPK               |  | <i>Juniperus chinensis</i> 'Pfitzerana Kalluys Compacta' / Kallu Pfitzer Compact Juniper | 3 gal   | Cont              |        | 7        |     |
| Sc                 |  | <i>Sambucus canadensis</i> / Elderberry                                                  | 5 gal   |                   |        | 8        |     |
| Vp                 |  | <i>Viburnum prunifolium</i> / Blackhaw Viburnum                                          | 5 gal   | Cont              |        | 5        |     |
| ANNUALS/PERENNIALS |  | BOTANICAL NAME / COMMON NAME                                                             | SIZE    | FIELD2            | FIELD3 | QTY      |     |
| at                 |  | <i>Amsonia tabernaemontana</i> 'Blue Ice' / Blue Ice Star Flower                         | 1 gal   | Cont              |        | 178      |     |
| ts                 |  | <i>Hemerocallis x 'Stella de Oro'</i> / Stella de Oro Daylily                            | 4" pot  | Cont              |        | 84       |     |
| ht                 |  | <i>Thymus speciosus</i> / Creeping Thyme                                                 | 1" flat | 2" pot            |        | 300      |     |
| DECIDUOUS SHRUBS   |  | BOTANICAL NAME / COMMON NAME                                                             | SIZE    | FIELD2            | FIELD3 | QTY      |     |
| DI                 |  | <i>Diervilla lonicera</i> / Dwarf Bush Honeysuckle                                       | 3 gal   | Cont              |        | 66       |     |
| Ra                 |  | <i>Rhus aromatica</i> 'Gro-Low' / Gro-Low Fragrant Sumac                                 | 3 gal   | Cont              |        | 41       |     |
| EVERGREEN SHRUBS   |  | BOTANICAL NAME / COMMON NAME                                                             | SIZE    | FIELD2            | FIELD3 | QTY      |     |
| Bx                 |  | <i>Buxus x 'Green Mountain'</i> / Boxwood                                                | 3 gal   | Cont              |        | 12       |     |
| JW                 |  | <i>Juniperus horizontalis</i> 'Wilcoxon' / Creeping Juniper                              | 3 gal   | Cont              |        | 54       |     |
| JSF                |  | <i>Juniperus sabbiana</i> 'Blue Forest' / Blue Forest Juniper                            | 3 gal   | Cont              |        | 8        |     |
| TGM                |  | <i>Taxus cuspidata</i> 'Monbo' / Emerald Spreader Japanese Yew                           | 5 gal   | Cont              |        | 21       |     |
| GROUND COVERS      |  | BOTANICAL NAME / COMMON NAME                                                             | CONT    | FIELD2            | FIELD3 | SPACING  | QTY |
| cm                 |  | <i>Carex morrowii</i> 'Ice Dance' / Ice Dance Japanese Sedge                             | 1" flat | 2" pot            |        | 15" o.c. | 238 |
| py                 |  | <i>Panicum virgatum</i> 'Shenandoah' / Switch Grass                                      | 1" flat | 2" pot            |        | 24" o.c. | 62  |
| ss                 |  | <i>Schizachyrium scoparium</i> / Little Bluestem Grass                                   | 1" flat | 2" pot            |        | 12" o.c. | 602 |
| sh2                |  | <i>Sporobolus heterolepis</i> / Prairie Dropseed                                         | 1" flat | 2" pot            |        | 18" o.c. | 117 |

2. All plantings shall conform to quality requirements as per ANSI Z601.
2. All plant material shall be true to the species, variety and size specified, nursery grown in accordance with good horticultural practices, and under electric lighting similar to that used in the greenhouse.
3. Contact Landscape Architect, in writing, to request and plant material substitutions due to availability issues.
4. All disturbed areas, unless otherwise noted, to be seeded with Mackdon Parks Mix (a blend of temporary or permanent grass, per manufacturer's specified application rate). All seeded areas to be watered daily to maintain adequate soil moisture for proper germination. After vigorous growth is established, apply 1/2" water twice weekly until final acceptance.
5. All plants shall be guaranteed to be in healthy and thriving condition during the first year after installation (shrubs and perennials) or the second growing season following installation (trees). All plant material shall be guaranteed for one year (shrubs and perennials) or two years (trees) from the time of installation.
6. Contractors shall provide a suitable amended topsoil blend for all planting areas where these conditions are unsuitable for plant growth. Topsoil shall conform to quality requirements as per Section 625.21(1) of the Standard Specifications for Highway Construction. Provide a minimum of 12" of topsoil in all planting areas and 6" of topsoil in areas to be seeded/sodded.
7. Local topsoil needs to be mulched with unweaved shredded hardwood bark mulch to 3" depth min.



- NOTES:
- CRITICAL ROOT RADIS (CRR) IS 1'x DBH  
EXAMPLE: 1'x DBH TREE IS CRR
  - ONLY HANDWORK ALLOWED WITHIN CRR. NO TRAFFIC OR STORAGE OF MATERIALS ALLOWED. NO EQUIPMENT SHALL BE OPERATED WITHIN CRR.
  - CRITICAL ROOT RADIS INCLUDING DURING FENCE INSTALLATION AND REMOVAL.
  - NO PRUNING SHALL BE PERFORMED EXCEPT BY APPROVED ARBORIST.





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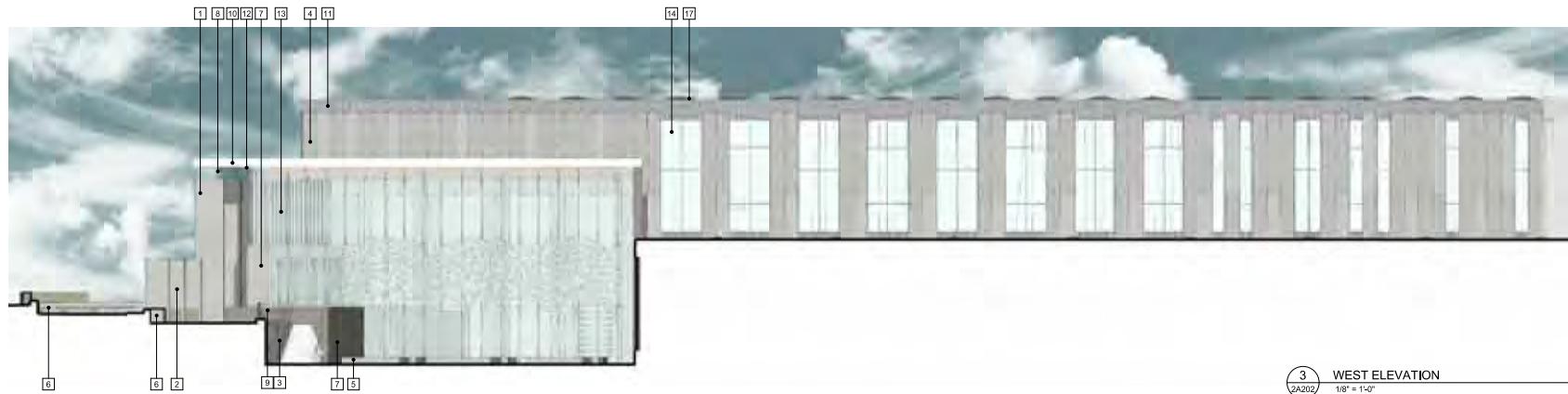
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## ROOF PLAN

2A130.

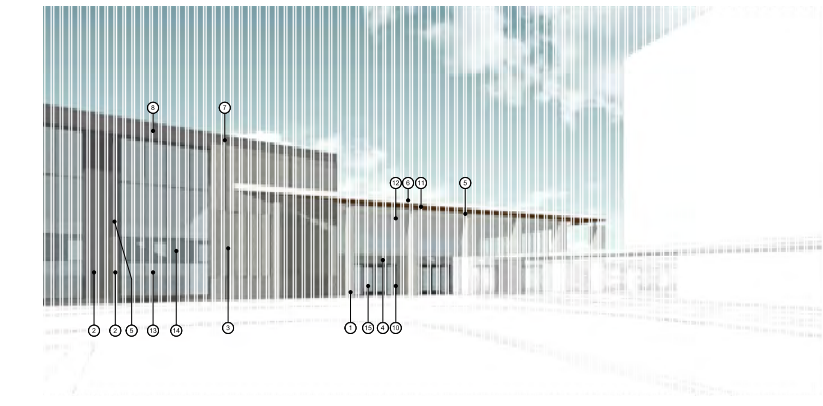




This architectural elevation drawing shows the facade of a long, low building. The structure features a series of vertical concrete columns supporting a flat roof. Large glass windows are integrated between the columns. The drawing is annotated with numbers 1 through 17, indicating specific architectural details and materials. The sky is depicted with a blue and white cloud pattern.

This perspective view shows the side elevation of the building. It features a long, low profile with a series of windows and vertical panels. Numbered callouts 1 through 19 point to various architectural features, including roof elements, window frames, and wall panels.

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PERSPECTIVE KEYNOTES:

- PRECAST CONC. PIER, W/ TYP. CASTED FINIS
- PRECAST CONC. PIER, W/ TYP. CASTED FINIS W/
- PRECAST CONC. PIER, W/ AS 45 DEGREE PROFILE
- PRECAST ELEVATIONS FOR FINISH LOCATIONS
- GRANITE VENEER WALL ASSEMBLY
- STEEL TUBE COLUMN - GALVANIZED, PRIMED AND PAINTED
- METAL FASCIA
- CORRUGATED METAL PANEL, PARAPET
- CORRUGATED METAL WALL PANEL
- REINFORCATED - FLATED METAL WALL PANEL, HUNG FROM PRECAST CONC. WALL
- STEEL ACCENT FRAME
- WOOD VENEER METAL SOFFIT
- TYP. SUPPORTED UGL GLAZING SYSTEM (SPRINTER SUPPORTED) - FLATED, SUPPORT FRAME, AT WEST FACING WALL, 20' OF WALL, WILL HAVE A CHROMIUM FINISH TO THE 20' OF WALL
- WINDOW WALL GLAZING SYSTEM
- SPANDREL GLAZING
- STONEFRONT ENTRY SYSTEM
- STEPPED TERRACE
- STEEL PERGOLA
- AMPHITHEATRE

**PRELIMINARY**  
NOT FOR CONSTRUCTION

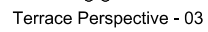
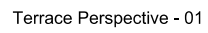
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Madison, WI 53711

2017.01.04

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## BUILDING PERSPECTIVES

2A203



- ③ SITE CAST CONCRETE PLANTER W/ WOOD BENCH TOP
- ④ SITE CAST CONCRETE RETAINING WALL W/ INTEGRAL PLANTER
- ⑤ SITE CAST CONCRETE WALL W/ STAIRS
- ⑥ SITE CAST CONCRETE AMPHITHEATER SEAT W/ UNDERSIDE LIGHTING
- ⑦ PLANTED LANDING W/ CRUSHED GRAVEL WALKWAY
- ⑧ PRECAST CONCRETE PIER
- ⑨ PRECAST CAST CONCRETE RETAINING WALL W/ PLEATED FORM
- ⑩ GRANITE VENEER WALL ASSEMBLY
- ⑪ STEEL PERGOLA FRAMING - GALVANIZED, PRIMED AND PAINTED
- ⑫ PERFORATED, CORRUGATED METAL PANEL, SUN SCREEN - GALVANIZED, PRIMED AND PAINTED
- ⑬ STEEL BAR QUADRANT W/ STEEL ROD RAIL
- ⑭ STEEL BAR HANDRAIL

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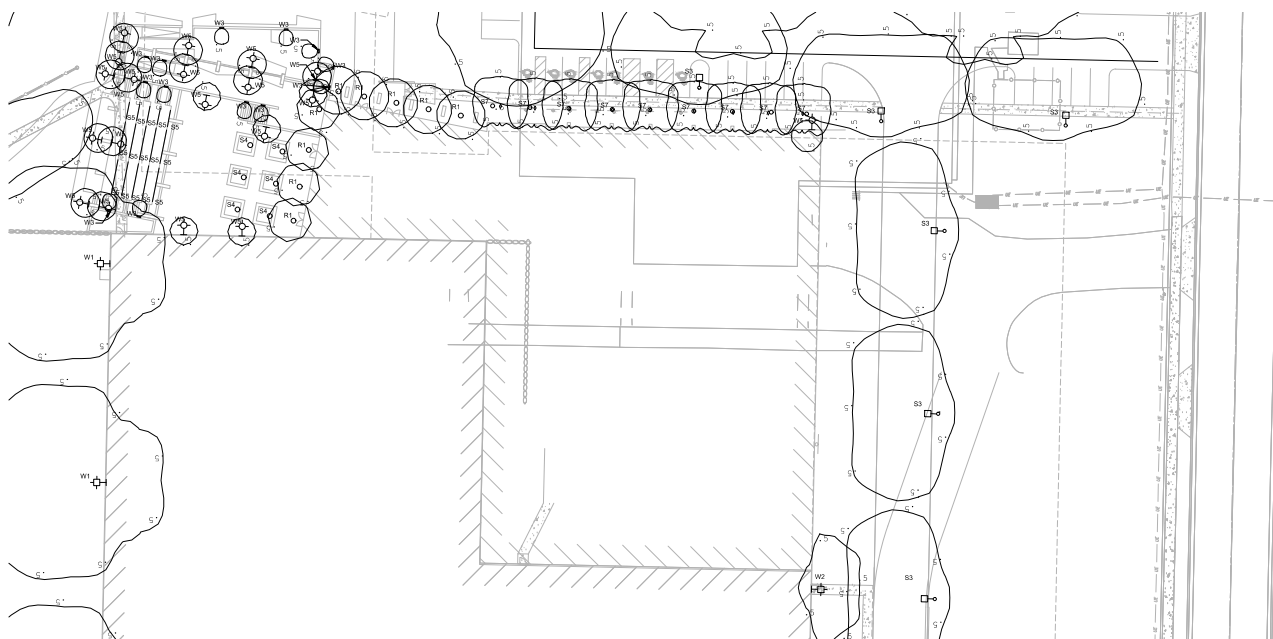
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## TERRACE PERSPECTIVES

2A204



1. ISOLINES INDICATE 0.5 FC OUTPUT FROM FIXTURE



**1 SITE LIGHTING PHASE 2 ISOLINES**  
SCALE: 1"=50'

| LUMINAIRE SCHEDULE                                                                  |     |                           |         |                                          |
|-------------------------------------------------------------------------------------|-----|---------------------------|---------|------------------------------------------|
| Control                                                                             | Tag | Description               | Height  | Description                              |
|  | W3  | Wall Gyrander - Downlight | 19' AFF | BEGA 13560                               |
|  | W3  | Recessed Stage Light      | 6' AFF  | 4451 LED WH31K30 MFL                     |
|  | W2  | Wall Mount                | 12' AFF | DSXW1 LED 10C 530 30K TFM MVOLT          |
|  | W1  | Wall Mount                | 21' AFF | DSXW2 LED 30C 1000 30K TFM MVOLT         |
|  | S7  | Boltd                     | 4' AFF  | DSXB LED 12C 530 30K ASY                 |
|  | S5  | Rope Light (Under Stage)  | 4' AFF  | VANP LED - 124 W9 30 6020 P87            |
|  | S4  | Recessed Accent Light     | 7' AFF  | DSX1 LED 40C 400 70K 30C MVOLT HS        |
|  | S3  | Desk Light                | 4' AFF  | DSX1 LED 30C 530 30K HS MVOLT HS         |
|  | R1  | Parascopic Spot           | Ground  | IC229 DFL 64.00 70K 30C 90C93 MVOLT T ZT |



5802 Research Park Boulevard  
Madison, WI 53719  
608-238-2616     [aeieng.com](http://aeieng.com)

Notes:

**PRELIMINARY**  
NOT FOR CONSTRUCTION

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Forward Drive  
Exact Sciences

650 Forward Drive  
Madison, WI 53711

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## SITE LIGHTING PHASE 2 ISOLINES

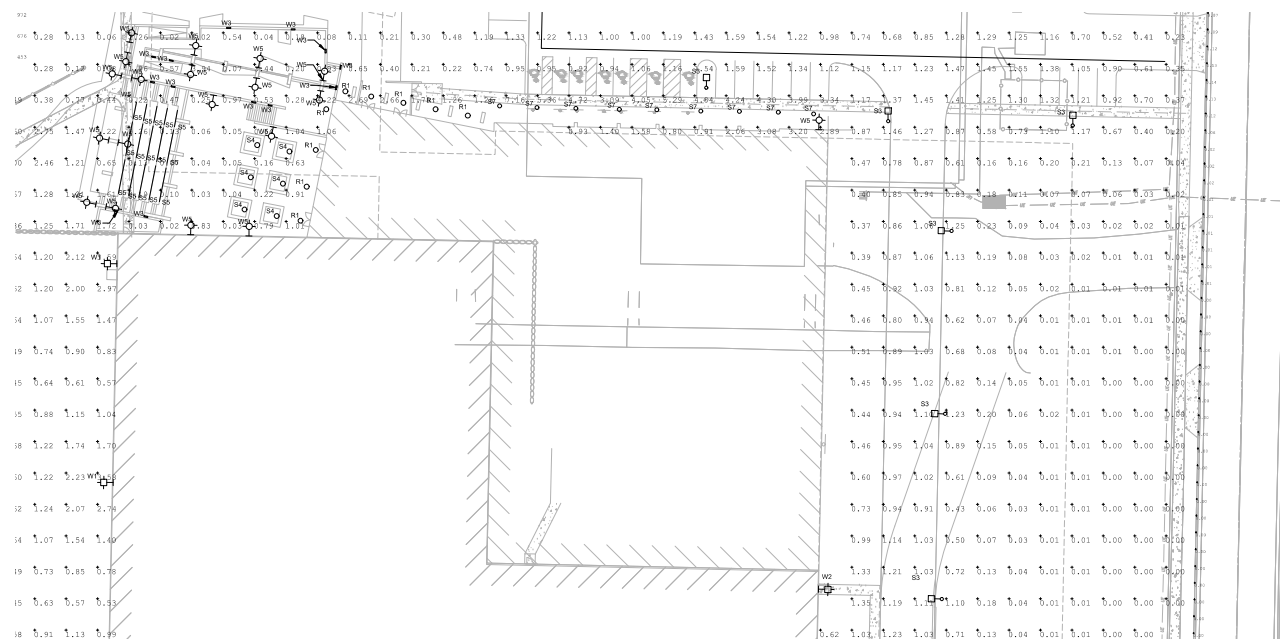


E1002

## 1. NOT USED



Notes:



**1 SITE LIGHTING PHASE 2 POINT BY POINT**  
SCALE: 1"=50'

| LUMINAIRE SCHEDULE                                                                  |     |                           |         |
|-------------------------------------------------------------------------------------|-----|---------------------------|---------|
| Symbol                                                                              | Tag | Description               | Height  |
|  | W3  | Wall Cylinder - Downlight | 15' AFF |
|  | W5  | Recessed Step Light       | 6" AFF  |
|  | W2  | Wall Mount                | 12' AFF |
|  | W1  | Wall Mount                | 21' AFF |
|  | S7  | Bollard                   | 4' AFF  |
|  | S5  | Night Light (Under Steps) | 4' AFF  |
|  | S4  | Landscape Accent Light    | 2' AFF  |
|  | P1  | Pole Light                | 30' AFF |
|  | B1  | Recessed Soffit           | Ground  |

**PRELIMINARY**  
NOT FOR CONSTRUCTION

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Forward Drive  
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650 Forward Drive  
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2017.09.12

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## SITE LIGHTING PHASE 2 POINT BY POINT



E1003

# 6" IC 600 LUMEN LED DOWNLIGHT NEW CONSTRUCTION

IC22LED (G4 06LM) RECESSED HOUSING



**LENSED TRIMS**

Project: \_\_\_\_\_

Fixture Type: \_\_\_\_\_

Location: \_\_\_\_\_

Contact/Phone: \_\_\_\_\_

## PRODUCT DESCRIPTION

Dedicated LED, Air-Loc® sealed new construction housing with integral light engine

- Shallow housing allows for fit in 2 x 6 construction
- Can be completely covered with insulation
- Fully sealed housing stops infiltration and exfiltration of air, reducing heating and air cooling costs without the use of additional gaskets
- LED housing is designed to provide 50,000 hours of life and is compatible with many standard Juno trims
- 5 year limited warranty on LED components.

## ENVIRONMENTALLY FRIENDLY, ENERGY EFFICIENT

- No harmful ultraviolet or infrared wavelengths
- No lead or mercury
- Comparable light output to 65W BR30 incandescent

## PRODUCT SPECIFICATIONS

**LED Light Engine** LED array integrated to thermally conductive housing provides uninterrupted heat transfer to ensure long life of the LED

- Replaceable light engine mounts directly to housing and incorporates the latest generation, high lumen output LED array
- LEDs are binned within a 3-step MacAdam Ellipse exceeding ENERGY STAR® requirements for superior fixture to fixture color uniformity
- 2700K, 3000K, 3500K, or 4000K color temperatures available
- 90 CRI minimum.

**Optical System** Computer-optimized reflector design with high reflectance white finish coupled with a high transmission diffusing lens conceals the LEDs and produces uniform aperture luminance

- Wide flood distribution (>70°) shipped as standard with optional optic accessories available and sold separately.

**Aesthetic Trim Selections** Compatible with wide selection of existing Juno trims

- Shadow free, knife edge design blends seamlessly into ceiling.
- Trims are wet location approved for covered ceiling applications.

**LED Driver** Choice of dedicated 120 volt (120) driver or universal voltage (MVOLT) driver that accommodates input voltages from 120-277 volts AC at 50/60Hz

- Power factor > 0.9 at 120V input
- 120 volt only driver is dimmable with the use of most incandescent, magnetic low voltage and electronic low voltage wall box dimmers
- Universal voltage driver is dimmable with the use of most 0-10V wall box dimmers
- For a list of compatible dimmers, see [JUNOICLED-DIM](#)
- Mounted between the j-box and housing for easy access and cool operation.

**Life** Rated for 50,000 hours at 70% lumen maintenance.

**Labels** Certified to the high efficacy requirements of California T24 JA8-2016 with select trims

- UL listed for U.S. and Canada through-branch wiring, wet locations (covered ceilings)
- Union made
- UL and cUL.

**Testing** All reports are based on published industry procedures; field performance may differ from laboratory performance.

Product specifications subject to change without notice.

## HOUSING FEATURES

**Housing** Designed for use in IC (insulated ceiling) or non-IC construction

- Aluminum housing sealed for Air-Loc® compliance
- Housing is vertically adjustable to accommodate up to a 2" ceiling thickness.

**Junction Box** Pre-wired junction box provided with (5) 1/2" and (1) 3/4" knockouts, (4) knockouts for 12/2 or 14/2 NM cable and ground wire

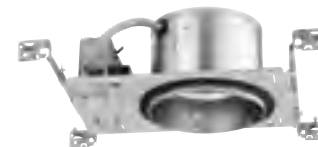
- UL listed and cUL listed for through-branch wiring, maximum 8 #12 branch circuit conductors
- Junction box provided with removable access plates
- Knockouts equipped with pryout slots
- Quick connect electrical connectors supplied as standard for fast, secure installation.

**Mounting Frame** 22-gauge die-formed galvanized steel mounting frame

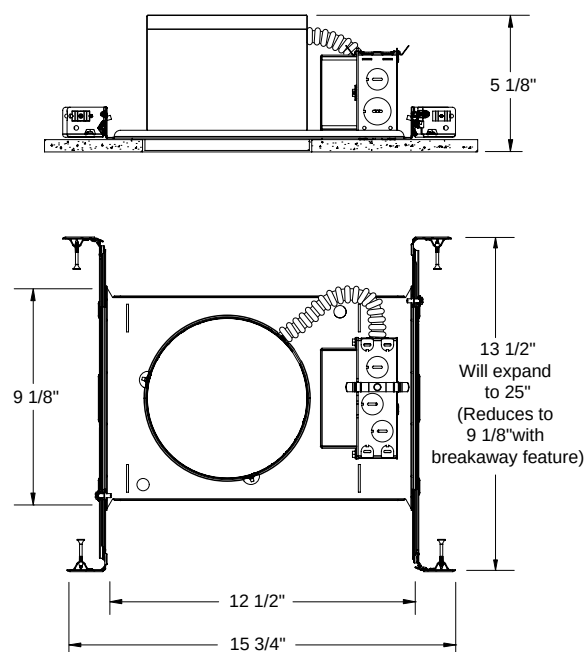
- Rough-in section (junction box, mounting frame, housing and bar hangers) fully assembled for ease of installation.

**Real Nail 3 Bar Hangers** Telescoping Real Nail® 3 system permits quick placement of housing anywhere within 24" O.C. joists or suspended ceilings

- Includes removable nail for repositioning of fixture in wood joist construction
- Integral T-bar notch and clip for suspended ceilings
- Design covered under US Patent D552,969.



## DIMENSIONS



6 7/8" CEILING CUTOUT

## ELECTRICAL DATA

### Dedicated 120V Only Driver Option

| 120V                  |                                                    |
|-----------------------|----------------------------------------------------|
| Input Power           | 8.6W (+/-5%)                                       |
| Input Current         | 0.07A                                              |
| Frequency             | 50/60Hz                                            |
| EMI/RFI               | FCC Title 47 CFR, Part 15<br>Class B (residential) |
| Minimum starting temp | -25°C                                              |

## ELECTRICAL DATA

### Universal Voltage

|                       | 120V                                              | 277V                                              |
|-----------------------|---------------------------------------------------|---------------------------------------------------|
| Input Power           | 8.7W (+/-5%)                                      | 8.9W (+/-5%)                                      |
| Input Current         | 0.07A                                             | 0.04A                                             |
| Frequency             | 50/60Hz                                           | 50/60Hz                                           |
| EMI/RFI               | FCC Title 47 CFR, Part 15<br>Class A (commercial) | FCC Title 47 CFR, Part 15<br>Class A (commercial) |
| Minimum starting temp | -40°C                                             | -40°C                                             |



# 6" IC 600 LUMEN LED DOWNLIGHT NEW CONSTRUCTION

IC22LED (G4 06LM) RECESSED HOUSING  
LENSED TRIMS

IC22LED\_G4\_06LM\_30K\_90CRI\_MVOLT\_ZT

## ORDERING INFORMATION

Housing and trim can be ordered together or separate, but will always ship separately.

Example: IC22LED G4 06LM 27K 90CRI 120 FRPC

| Series                                    | Generation      | Lumens                  | Color Temperature                                | CRI           | Voltage                                | Driver                                                    |
|-------------------------------------------|-----------------|-------------------------|--------------------------------------------------|---------------|----------------------------------------|-----------------------------------------------------------|
| IC22LED 6" LED New Construction Downlight | G4 Generation 4 | 06LM 600 Nominal Lumens | 27K 2700K<br>30K 3000K<br>35K 3500K<br>40K 4000K | 90CRI 90+ CRI | 120 120V<br>MVOLT Multi-Volt (120-277) | FRPC Forward/Reverse Phase Cut<br>ZT 0-10V Dimming Driver |

Notes: Order 120 with FRPC only, Order MVOLT with ZT only.

### Trim/Description

|                                                                                     |                                                                                            |                                                                                                                                                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | <b>20 WH</b><br><b>20 PW</b>                                                               | Lensed Albalite Trim - White Trim Ring<br>Lensed Albalite Trim - Plastic White Trim Ring                                                                                                                             |
|    | <b>21 WH</b><br><b>21 PW</b>                                                               | Lensed Drop Opal Trim - White Trim Ring<br>Lensed Drop Opal Trim - Plastic White Trim Ring                                                                                                                           |
|    | <b>22 WH</b>                                                                               | Lensed Fresnel Trim - White Trim Ring                                                                                                                                                                                |
|  | <b>239 WH</b> <sup>1</sup>                                                                 | Frosted Lens Trim - White Trim Ring                                                                                                                                                                                  |
|  | <b>242 WH</b><br><b>242 SC</b><br><b>242 ABZ</b>                                           | Frosted Lens with Clear Center Trim - White Trim Ring<br>Frosted Lens with Clear Center Trim - Satin Chrome Trim Ring<br>Frosted Lens with Clear Center Trim - Classic Aged Bronze Trim Ring                         |
|  | <b>243 WH</b> <sup>*</sup>                                                                 | Decorative Swirled Etched Opal Glass Trim - White Trim Ring                                                                                                                                                          |
|  | <b>2330 WWH</b> <sup>*</sup><br><b>2330 BWH</b> <sup>*</sup>                               | White Baffle Regress Frosted Dome Lens Trim - White Trim Ring<br>Black Baffle Regress Frosted Dome Lens Trim - White Trim Ring                                                                                       |
|  | <b>6101 WH</b> <sup>*</sup><br><b>6101 SC</b> <sup>*</sup><br><b>6101 ABZ</b> <sup>*</sup> | Lensed Beveled Frame Frosted Dome Lens Trim - White Trim Ring<br>Lensed Beveled Frame Frosted Dome Lens Trim - Satin Chrome Trim Ring<br>Lensed Beveled Frame Frosted Dome Lens Trim - Classic Aged Bronze Trim Ring |

Trim Size: 2330 - 7 3/8" O.D.; 239, 242, 243 - 7 5/8" O.D.; 6101 - 7 3/4" O.D.; 20, 21, 22 - 8" O.D.

Note: In Canada when insulation is present, Type IC fixtures must be used.

### Accessories (ordered separately)

| Catalog Number | Description              |
|----------------|--------------------------|
| LEDOPTICG3 MFL | Medium Flood Optic (50°) |
| LEDOPTICG3 NFL | Narrow Flood Optic (37°) |
| LEDOPTICG3 SP  | Spot Optic (10°)         |

To order, specify catalog number.

**AIR-LOC** JUNO IC housings meet IECC Energy Code requirements per ASTM E283.  
Air-Loc® rated trims are pre-gasketed for minimum air leakage with IC housings.

UL Listed for use in wet location.

<sup>1</sup> 120V and Multi-Volt: T24 @ 35K and 40K only

<sup>\*</sup> Do not use reflector shipped with trim for LED housing.

# 6" IC 600 LUMEN LED DOWNLIGHT NEW CONSTRUCTION

IC22LED (G4 06LM) RECESSED HOUSING  
LENSED TRIMS

## PHOTOMETRICS

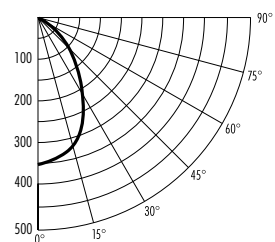
### PHOTOMETRIC REPORT

Test Report #: PT10111804R

Catalog No: IC22LED G4 06LM 35K with  
239 WH Trim and standard wide flood optic

Luminaire Spacing Criterion: 1.02

Luminaire LPW: 65



### CANDLEPOWER DISTRIBUTION (Candelas)

| Degrees | 0°  |
|---------|-----|
| 0       | 353 |
| 5       | 349 |
| 15      | 321 |
| 25      | 264 |
| 35      | 179 |
| 45      | 105 |
| 55      | 62  |
| 65      | 37  |
| 75      | 21  |
| 85      | 4   |
| 90      | 0   |

Multiplier: 27K - 0.89  
30K - 0.94  
40K - 1.03

### AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)

Ceiling 80% Wall 50% Floor 20%

| Spacing | RCR1 | RCR3 | RCR5 |
|---------|------|------|------|
| 4.0'    | 37   | 30   | 25   |
| 5.0'    | 24   | 19   | 16   |
| 6.0'    | 17   | 13   | 11   |
| 7.0'    | 13   | 11   | 9    |
| 8.0'    | 11   | 9    | 7    |
| 9.0'    | 8    | 7    | 5    |
| 10.0'   | 6    | 5    | 4    |

### ZONAL LUMEN SUMMARY

| Zone    | Lumens | %Lamp | %Fixture |
|---------|--------|-------|----------|
| 0 - 30° | 243    | N/A   | 43.6     |
| 0 - 40° | 355    | N/A   | 63.7     |
| 0 - 60° | 493    | N/A   | 88.5     |
| 0 - 90° | 557    | N/A   | 100.0    |

### INITIAL FOOTCANDLES (One Unit, 8.6W, 70.8° Beam)

| Distance to Illuminated Plane (Feet) | Footcandles Beam Center | Beam Diameter |
|--------------------------------------|-------------------------|---------------|
| 4                                    | 22.1                    | 5.7'          |
| 6                                    | 9.8                     | 8.5'          |
| 8                                    | 5.5                     | 11.4'         |
| 10                                   | 3.5                     | 14.2'         |

### LUMINANCE (Average cd/m²)

| Degrees | Average Luminance |
|---------|-------------------|
| 45      | 8114              |
| 55      | 5878              |
| 65      | 4759              |
| 75      | 4342              |
| 85      | 2715              |

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field.



# D-Series Size 1 LED Area Luminaire

d#series



## Specifications

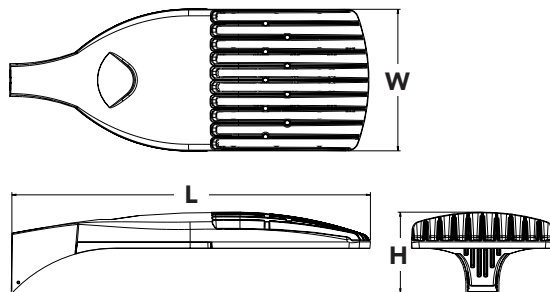
**EPA:** 1.01 ft<sup>2</sup>  
(0.09 m<sup>2</sup>)

**Length:** 33"  
(83.8 cm)

**Width:** 13"  
(33.0 cm)

**Height:** 7-1/2"  
(19.0 cm)

**Weight (max):** 27 lbs  
(12.2 kg)



Catalog  
Number

Notes

Type

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

## Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment.

The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire. The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing up to 750W metal halide in pedestrian and area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

## Ordering Information

EXAMPLE: DSX1 LED 60C 1000 40K T3M MVOLT SPA DDBXD

| DSX1LED  |                                   |                                 |                                             |                            |                          |                                                                              |  |
|----------|-----------------------------------|---------------------------------|---------------------------------------------|----------------------------|--------------------------|------------------------------------------------------------------------------|--|
| Series   | LEDs                              | Drive current                   | Color temperature                           | Distribution               | Voltage                  | Mounting                                                                     |  |
| DSX1 LED | <b>Forward optics</b>             | <b>530 530 mA</b>               | <b>30K 3000 K</b>                           | T1S Type I short           | <b>MVOLT<sup>5</sup></b> | <b>Shipped included</b>                                                      |  |
|          | 30C 30 LEDs (one engine)          | 700 700 mA                      | 40K 4000 K                                  | T2S Type II short          | 120 <sup>5</sup>         | SPA Square pole mounting                                                     |  |
|          | 40C 40 LEDs (two engines)         | 1000 1000 mA (1 A) <sup>2</sup> | 50K 5000 K                                  | T2M Type II medium         | 208 <sup>5</sup>         | <b>RPA Round pole mounting</b>                                               |  |
|          | <b>Rotated optics<sup>1</sup></b> |                                 | AMBPC Amber phosphor converted <sup>3</sup> | T3S Type III short         | 240 <sup>5</sup>         | WBA Wall bracket                                                             |  |
|          | 60C 60 LEDs (two engines)         |                                 |                                             | <b>T3M Type III medium</b> | 277 <sup>5</sup>         | SPUMBA Square pole universal mounting adaptor <sup>7</sup>                   |  |
|          |                                   |                                 |                                             | T4M Type IV medium         | 347 <sup>6</sup>         | RPUMBA Round pole universal mounting adaptor <sup>7</sup>                    |  |
|          |                                   |                                 |                                             | TFTM Forward throw medium  | 480 <sup>6</sup>         | <b>Shipped separately</b>                                                    |  |
|          |                                   |                                 |                                             | T5VS Type V very short     |                          | KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish) <sup>8</sup> |  |

| Control options                                                                                              | Other options                                         | Finish (required)                |
|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|----------------------------------|
| <b>Shipped installed</b>                                                                                     | <b>Shipped installed</b>                              | <b>DDBXD Dark bronze</b>         |
| PER NEMA twist-lock receptacle only (no controls) <sup>9</sup>                                               | <b>HS House-side shield<sup>19</sup></b>              | DBLXD Black                      |
| PER5 Five-wire receptacle only (no controls) <sup>9,10</sup>                                                 | <b>WTB Utility terminal block<sup>20</sup></b>        | DNAXD Natural aluminum           |
| PER7 Seven-wire receptacle only (no controls) <sup>9,10</sup>                                                | <b>SF Single fuse (120V, 277V, 347V)<sup>21</sup></b> | DWHXD White                      |
| DMG 0-10V dimming driver (no controls) <sup>11</sup>                                                         | DF Double fuse (208, 240, 480V) <sup>21</sup>         | DDBTXD Textured dark bronze      |
| DCR Dimmable and controllable via ROAM <sup>®</sup> (no controls) <sup>12</sup>                              | L90 Left rotated optics <sup>22</sup>                 | DBLBXD Textured black            |
| DS Dual switching <sup>13,14</sup>                                                                           | R90 Right rotated optics <sup>22</sup>                | DNATXD Textured natural aluminum |
| PIR Bi-level, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 5fc <sup>15</sup>      | BS Bird spikes <sup>23</sup>                          | DWHGXD Textured white            |
| PIRH Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 5fc <sup>15</sup>    |                                                       |                                  |
| PIR1FC3V Bi-level, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc <sup>15</sup> |                                                       |                                  |

| Accessories                                                                                    | Controls & Shields | NOTES                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------------------------------------------------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DLL127F 1.5 JU Photocell - SSL twist-lock (120-277V) <sup>24</sup>                             |                    | 1 Rotated optics available with 60C only.                                                                                                                                                                                                                                                                                                                               |
| DLL347F 1.5 CUL JU Photocell - SSL twist-lock (347V) <sup>24</sup>                             |                    | 2 Not available AMBPC.                                                                                                                                                                                                                                                                                                                                                  |
| DLL480F 1.5 CUL JU Photocell - SSL twist-lock (480V) <sup>24</sup>                             |                    | 3 Only available with 530mA or 700mA.                                                                                                                                                                                                                                                                                                                                   |
| DSHORT SBK U Shorting cap <sup>24</sup>                                                        |                    | 4 Not available with US.                                                                                                                                                                                                                                                                                                                                                |
| DSX1HS 30C U House-side shield for 30 LED unit <sup>19</sup>                                   |                    | 5 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120V, 208V, 240V or 277V options only when ordering with fusing (SF, DF options).                                                                                                                                                                                                         |
| DSX1HS 40C U House-side shield for 40 LED unit <sup>19</sup>                                   |                    | 6 Not available with single board, 530mA product (30C 530 or 60C 530 DS). Not available with BL30, BL50 or PNMT options.                                                                                                                                                                                                                                                |
| DSX1HS 60C U House-side shield for 60 LED unit <sup>19</sup>                                   |                    | 7 Existing drilled pole only. Available as a separate combination accessory; for retrofit use only: PUMBA (finish) U; 1.5 G vibration load rating per ANCI C136.31.                                                                                                                                                                                                     |
| PUMBA DDBXD U* Square and round pole universal mounting bracket (specify finish) <sup>25</sup> |                    | 8 Must order fixture with SPA option. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" mast arm (not included).                                                                                                                                                                                                                |
| KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish) <sup>8</sup>                   |                    | 9 Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Not available with DS option.                                                                                                                                                                                                                                     |
| DSX1BS U Bird spikes                                                                           |                    | 10 If ROAM <sup>®</sup> node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Not available with DCR. Node with integral dimming.                                                                                                                                                                                          |
|                                                                                                |                    | 11 DMG option for 347V or 480V requires 1000mA.                                                                                                                                                                                                                                                                                                                         |
|                                                                                                |                    | 12 Specifies a ROAM <sup>®</sup> enabled luminaire with 0-10V dimming capability; PER option required. Additional hardware and services required for ROAM <sup>®</sup> deployment; must be purchased separately. Call 1-800-442-6745 or email: sales@roamservices.net. N/A with PIR options, DS, PER5, PER7, BL30, BL50 or PNMT options. Node without integral dimming. |
|                                                                                                |                    | 13 Requires 40C or 60C. Provides 50/50 luminaire operation via two independent drivers on two separate circuits. N/A with PER, DCR, WTB, PIR or PIRH.                                                                                                                                                                                                                   |
|                                                                                                |                    | 14 Requires an additional switched circuit.                                                                                                                                                                                                                                                                                                                             |
|                                                                                                |                    | 15 PIR and PIR1FC3V specify the SensorSwitch SBGR-10-ODP control; PIRH and PIRH1FC3V specify the SensorSwitch SBGR-6-ODP control; see Outdoor Control Technical Guide for details. Dimming driver standard. Not available with PER5 or PER7. Ambient sensor disabled when ordered with DCR. Separate on/off required.                                                   |
|                                                                                                |                    | 16 Dimming driver standard. MVOLT only. Not available with 347V, 480V, DCR, DS, PER5, PER7 or PNMT options. Not available with PIR1FC3V or PIRH1FC3V.                                                                                                                                                                                                                   |
|                                                                                                |                    | 17 Dimming driver standard. MVOLT only. Not available with 347V, 480V, DCR, DS, PER5, PER7, BL30 or BL50. Not available with PIR1FC3V or PIRH1FC3V. Separate on/off required.                                                                                                                                                                                           |
|                                                                                                |                    | 18 Dimming driver standard. Not available with PER5, PER7, DMG, DCR, DS, BL30, BL50 or PNMT, PIR, PIRH, PIR1FC3V or PIRH1FC3V.                                                                                                                                                                                                                                          |
|                                                                                                |                    | 19 Not available with BLC, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.                                                                                                                                                                                                                                             |
|                                                                                                |                    | 20 WTB not available with DS.                                                                                                                                                                                                                                                                                                                                           |
|                                                                                                |                    | 21 Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.                                                                                                                                                                                                                                                                          |
|                                                                                                |                    | 22 Available with 60 LEDs (60C option) only.                                                                                                                                                                                                                                                                                                                            |
|                                                                                                |                    | 23 Also available as a separate accessory; see accessories information.                                                                                                                                                                                                                                                                                                 |
|                                                                                                |                    | 24 Requires luminaire to be specified with PER option. Ordered and shipped as a separate line item from Acuity Brands Controls.                                                                                                                                                                                                                                         |
|                                                                                                |                    | 25 For retrofit use only.                                                                                                                                                                                                                                                                                                                                               |



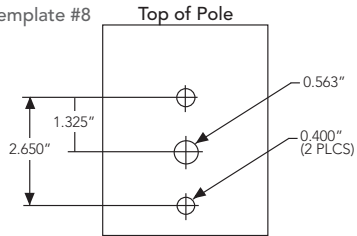
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DSX1-LED  
Rev. 08/09/16  
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## Drilling

Template #8



DSX1 shares a unique drilling pattern with the AERIS™ family. Specify this drilling pattern when specifying poles, per the table below.

|               |             |               |             |
|---------------|-------------|---------------|-------------|
| <b>DM19AS</b> | Single unit | <b>DM29AS</b> | 2 at 90°*   |
| <b>DM28AS</b> | 2 at 180°   | <b>DM39AS</b> | 3 at 90°*   |
| <b>DM49AS</b> | 4 at 90°*   | <b>DM32AS</b> | 3 at 120°** |

**Example:** SSA 20 4C DM19AS DDBXD

Visit Lithonia Lighting's [POLES CENTRAL](#) to see our wide selection of poles, accessories and educational tools.

\*Round pole top must be 3.25" O.D. minimum.

\*\*For round pole mounting (RPA) only.

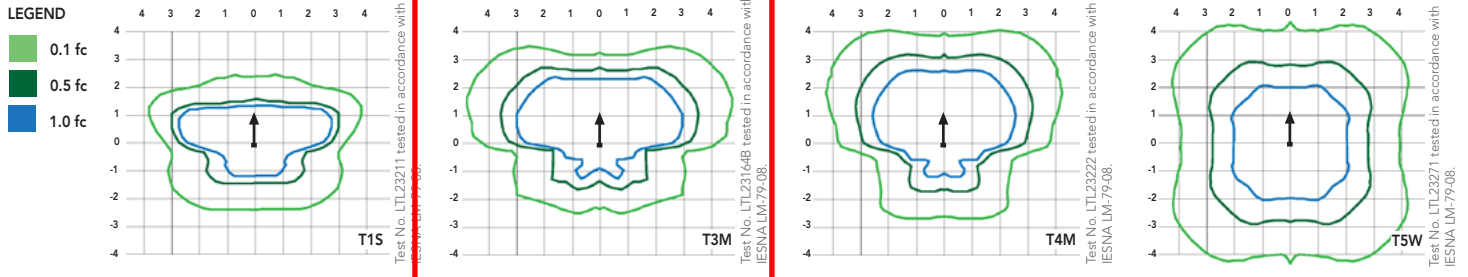
## Tenon Mounting Slipfitter\*\*

| Tenon O.D. | Single Unit | 2 at 180° | 2 at 90°  | 3 at 120° | 3 at 90°  | 4 at 90°  |
|------------|-------------|-----------|-----------|-----------|-----------|-----------|
| 2-3/8"     | AST20-190   | AST20-280 | AST20-290 | AST20-320 | AST20-390 | AST20-490 |
| 2-7/8"     | AST25-190   | AST25-280 | AST25-290 | AST25-320 | AST25-390 | AST25-490 |
| 4"         | AST35-190   | AST35-280 | AST35-290 | AST35-320 | AST35-390 | AST35-490 |

## Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit [Lithonia Lighting's D-Series Area Size 1 homepage](#).

Isofootcandle plots for the DSX1 LED 60C 1000 40K. Distances are in units of mounting height (20').



**S3**

(House Shield)

## 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        | 1.02             |
| 10°C        | 50°F        | 1.01             |
| 20°C        | 68°F        | 1.00             |
| <b>25°C</b> | <b>77°F</b> | <b>1.00</b>      |
| 30°C        | 86°F        | 1.00             |
| 40°C        | 104°F       | 0.99             |

### Electrical Load

| Number of LEDs | Drive Current (mA) | System Watts | Current (A) |      |      |      |      |      |
|----------------|--------------------|--------------|-------------|------|------|------|------|------|
|                |                    |              | 120         | 208  | 240  | 277  | 347  | 480  |
| <b>S3</b>      | 530                | 52           | 0.52        | 0.30 | 0.26 | 0.23 | --   | --   |
|                | 700                | 68           | 0.68        | 0.39 | 0.34 | 0.30 | 0.24 | 0.17 |
|                | 1000               | 105          | 1.03        | 0.59 | 0.51 | 0.45 | 0.36 | 0.26 |
| 30             | 530                | 68           | 0.67        | 0.39 | 0.34 | 0.29 | 0.23 | 0.17 |
|                | 700                | 89           | 0.89        | 0.51 | 0.44 | 0.38 | 0.31 | 0.22 |
|                | 1000               | 138          | 1.35        | 0.78 | 0.67 | 0.58 | 0.47 | 0.34 |
| 40             | 530                | 99           | 0.97        | 0.56 | 0.48 | 0.42 | 0.34 | 0.24 |
|                | 700                | 131          | 1.29        | 0.74 | 0.65 | 0.56 | 0.45 | 0.32 |
|                | 1000               | 209          | 1.98        | 1.14 | 0.99 | 0.86 | 0.69 | 0.50 |
| 60             | 530                | 99           | 0.97        | 0.56 | 0.48 | 0.42 | 0.34 | 0.24 |
|                | 700                | 131          | 1.29        | 0.74 | 0.65 | 0.56 | 0.45 | 0.32 |
|                | 1000               | 209          | 1.98        | 1.14 | 0.99 | 0.86 | 0.69 | 0.50 |

### 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 | DSX1 LED 60C 1000 |        |        |         |
|                          | 1.0               | 0.98   | 0.96   | 0.91    |
|                          | DSX1 LED 60C 700  |        |        |         |
|                          | 1.0               | 0.99   | 0.99   | 0.99    |

## 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.

#### Forward Optics

| LEDs             | Drive Current (mA) | System Watts | Dist. Type | 30K<br>(3000 K, 70 CRI) |   |   |   |     | 40K<br>(4000 K, 70 CRI) |   |   |   |     | 50K<br>(5000 K, 70 CRI) |   |   |   |     | AMBPC<br>(Amber Phosphor Converted) |   |   |   |     |
|------------------|--------------------|--------------|------------|-------------------------|---|---|---|-----|-------------------------|---|---|---|-----|-------------------------|---|---|---|-----|-------------------------------------|---|---|---|-----|
|                  |                    |              |            | Lumens                  | B | U | G | LPW | Lumens                  | B | U | G | LPW | Lumens                  | B | U | G | LPW | Lumens                              | B | U | G | LPW |
| 30C<br>(30 LEDs) | 530 mA             | 52 W         | T1S        | 5,948                   | 1 | 0 | 1 | 114 | 6,387                   | 1 | 0 | 1 | 123 | 6,427                   | 1 | 0 | 1 | 124 | 3,640                               | 1 | 0 | 1 | 70  |
|                  |                    |              | T2S        | 6,132                   | 1 | 0 | 1 | 118 | 6,585                   | 2 | 0 | 2 | 127 | 6,626                   | 2 | 0 | 2 | 127 | 3,813                               | 1 | 0 | 1 | 73  |
|                  |                    |              | T2M        | 5,992                   | 1 | 0 | 2 | 115 | 6,434                   | 1 | 0 | 2 | 124 | 6,475                   | 1 | 0 | 2 | 125 | 3,689                               | 1 | 0 | 1 | 71  |
|                  |                    |              | T3S        | 5,985                   | 1 | 0 | 1 | 115 | 6,427                   | 1 | 0 | 2 | 124 | 6,467                   | 1 | 0 | 2 | 124 | 3,770                               | 1 | 0 | 1 | 73  |
|                  |                    |              | T3M        | 6,039                   | 1 | 0 | 2 | 116 | 6,485                   | 1 | 0 | 2 | 125 | 6,525                   | 1 | 0 | 2 | 125 | 3,752                               | 1 | 0 | 1 | 72  |
|                  |                    |              | T4M        | 6,121                   | 1 | 0 | 2 | 118 | 6,573                   | 1 | 0 | 2 | 126 | 6,614                   | 1 | 0 | 2 | 127 | 3,758                               | 1 | 0 | 1 | 72  |
|                  |                    |              | TFTM       | 6,030                   | 1 | 0 | 2 | 116 | 6,475                   | 1 | 0 | 2 | 125 | 6,515                   | 1 | 0 | 2 | 125 | 3,701                               | 1 | 0 | 1 | 71  |
|                  |                    |              | TSVS       | 6,370                   | 2 | 0 | 0 | 123 | 6,840                   | 2 | 0 | 0 | 132 | 6,883                   | 2 | 0 | 0 | 132 | 3,928                               | 2 | 0 | 0 | 76  |
|                  |                    |              | T5S        | 6,417                   | 2 | 0 | 0 | 123 | 6,890                   | 2 | 0 | 0 | 133 | 6,933                   | 2 | 0 | 0 | 133 | 3,881                               | 2 | 0 | 0 | 75  |
|                  |                    |              | T5M        | 6,428                   | 3 | 0 | 1 | 124 | 6,902                   | 3 | 0 | 1 | 133 | 6,945                   | 3 | 0 | 1 | 134 | 3,930                               | 2 | 0 | 1 | 76  |
|                  |                    |              | TSW        | 6,334                   | 3 | 0 | 1 | 122 | 6,801                   | 3 | 0 | 1 | 131 | 6,844                   | 3 | 0 | 1 | 132 | 3,820                               | 3 | 0 | 1 | 73  |
|                  |                    |              | BLC        | 4,735                   | 1 | 0 | 1 | 91  | 5,085                   | 1 | 0 | 2 | 98  | 5,116                   | 1 | 0 | 1 | 98  |                                     |   |   |   |     |
|                  |                    |              | LCCO       | 4,600                   | 1 | 0 | 2 | 88  | 4,940                   | 1 | 0 | 2 | 95  | 4,971                   | 1 | 0 | 2 | 96  |                                     |   |   |   |     |
|                  |                    |              | RCCO       | 4,600                   | 1 | 0 | 2 | 88  | 4,940                   | 1 | 0 | 2 | 95  | 4,971                   | 1 | 0 | 2 | 96  |                                     |   |   |   |     |
|                  | 700 mA             | 68 W         | T1S        | 7,554                   | 1 | 0 | 1 | 111 | 8,112                   | 2 | 0 | 2 | 119 | 8,163                   | 2 | 0 | 2 | 120 | 4,561                               | 1 | 0 | 1 | 67  |
|                  |                    |              | T2S        | 7,789                   | 2 | 0 | 2 | 115 | 8,364                   | 2 | 0 | 2 | 123 | 8,416                   | 2 | 0 | 2 | 124 | 4,777                               | 1 | 0 | 1 | 70  |
|                  |                    |              | T2M        | 7,610                   | 1 | 0 | 2 | 112 | 8,172                   | 2 | 0 | 2 | 120 | 8,223                   | 2 | 0 | 2 | 121 | 4,622                               | 1 | 0 | 2 | 68  |
|                  |                    |              | T3S        | 7,601                   | 1 | 0 | 2 | 112 | 8,162                   | 2 | 0 | 2 | 120 | 8,213                   | 2 | 0 | 2 | 121 | 4,724                               | 1 | 0 | 1 | 69  |
|                  |                    |              | T3M        | 7,670                   | 1 | 0 | 2 | 113 | 8,236                   | 2 | 0 | 2 | 121 | 8,288                   | 2 | 0 | 2 | 122 | 4,701                               | 1 | 0 | 2 | 69  |
|                  |                    |              | T4M        | 7,774                   | 1 | 0 | 2 | 114 | 8,348                   | 2 | 0 | 2 | 123 | 8,400                   | 2 | 0 | 2 | 124 | 4,709                               | 1 | 0 | 2 | 69  |
|                  |                    |              | TFTM       | 7,658                   | 1 | 0 | 2 | 113 | 8,223                   | 1 | 0 | 2 | 121 | 8,275                   | 1 | 0 | 2 | 122 | 4,638                               | 1 | 0 | 2 | 68  |
|                  |                    |              | TSVS       | 8,090                   | 2 | 0 | 0 | 119 | 8,687                   | 3 | 0 | 1 | 128 | 8,742                   | 3 | 0 | 1 | 129 | 4,922                               | 2 | 0 | 0 | 72  |
|                  |                    |              | T5S        | 8,150                   | 2 | 0 | 0 | 120 | 8,751                   | 3 | 0 | 0 | 129 | 8,806                   | 3 | 0 | 0 | 130 | 4,863                               | 2 | 0 | 0 | 72  |
|                  |                    |              | T5M        | 8,164                   | 3 | 0 | 1 | 120 | 8,767                   | 3 | 0 | 2 | 129 | 8,821                   | 3 | 0 | 2 | 130 | 4,924                               | 3 | 0 | 1 | 72  |
|                  |                    |              | TSW        | 8,044                   | 3 | 0 | 1 | 118 | 8,638                   | 3 | 0 | 2 | 127 | 8,692                   | 3 | 0 | 2 | 128 | 4,787                               | 3 | 0 | 1 | 70  |
|                  |                    |              | BLC        | 6,028                   | 1 | 0 | 2 | 89  | 6,473                   | 1 | 0 | 2 | 95  | 6,514                   | 1 | 0 | 2 | 96  |                                     |   |   |   |     |
|                  |                    |              | LCCO       | 5,856                   | 1 | 0 | 2 | 86  | 6,289                   | 1 | 0 | 2 | 92  | 6,328                   | 1 | 0 | 2 | 93  |                                     |   |   |   |     |
|                  |                    |              | RCCO       | 5,856                   | 1 | 0 | 2 | 86  | 6,289                   | 1 | 0 | 2 | 92  | 6,328                   | 1 | 0 | 2 | 93  |                                     |   |   |   |     |
|                  | 1000 mA            | 105 W        | T1S        | 10,331                  | 2 | 0 | 2 | 98  | 11,094                  | 2 | 0 | 2 | 106 | 11,163                  | 2 | 0 | 2 | 106 |                                     |   |   |   |     |
|                  |                    |              | T2S        | 10,652                  | 2 | 0 | 2 | 101 | 11,438                  | 2 | 0 | 2 | 109 | 11,510                  | 2 | 0 | 2 | 110 |                                     |   |   |   |     |
|                  |                    |              | T2M        | 10,408                  | 2 | 0 | 2 | 99  | 11,176                  | 2 | 0 | 3 | 106 | 11,246                  | 2 | 0 | 3 | 107 |                                     |   |   |   |     |
|                  |                    |              | T3S        | 10,395                  | 2 | 0 | 2 | 99  | 11,163                  | 2 | 0 | 2 | 106 | 11,233                  | 2 | 0 | 2 | 107 |                                     |   |   |   |     |
|                  |                    |              | T3M        | 10,490                  | 2 | 0 | 2 | 100 | 11,264                  | 2 | 0 | 2 | 107 | 11,335                  | 2 | 0 | 2 | 108 |                                     |   |   |   |     |
|                  |                    |              | T4M        | 10,632                  | 2 | 0 | 2 | 101 | 11,417                  | 2 | 0 | 2 | 109 | 11,488                  | 2 | 0 | 2 | 109 |                                     |   |   |   |     |
|                  |                    |              | TFTM       | 10,473                  | 2 | 0 | 2 | 100 | 11,247                  | 2 | 0 | 3 | 107 | 11,317                  | 2 | 0 | 3 | 108 |                                     |   |   |   |     |
|                  |                    |              | TSVS       | 11,064                  | 3 | 0 | 1 | 105 | 11,881                  | 3 | 0 | 1 | 113 | 11,955                  | 3 | 0 | 1 | 114 |                                     |   |   |   |     |
|                  |                    |              | T5S        | 11,145                  | 3 | 0 | 1 | 106 | 11,968                  | 3 | 0 | 1 | 114 | 12,043                  | 3 | 0 | 1 | 115 |                                     |   |   |   |     |
|                  |                    |              | T5M        | 11,165                  | 3 | 0 | 2 | 106 | 11,989                  | 4 | 0 | 2 | 114 | 12,064                  | 4 | 0 | 2 | 115 |                                     |   |   |   |     |
|                  |                    |              | TSW        | 11,001                  | 3 | 0 | 2 | 105 | 11,813                  | 4 | 0 | 2 | 113 | 11,887                  | 4 | 0 | 2 | 113 |                                     |   |   |   |     |
|                  |                    |              | BLC        | 7,960                   | 1 | 0 | 2 | 76  | 8,548                   | 1 | 0 | 2 | 81  | 8,601                   | 1 | 0 | 2 | 82  |                                     |   |   |   |     |
|                  |                    |              | LCCO       | 7,734                   | 1 | 0 | 2 | 74  | 8,305                   | 1 | 0 | 2 | 79  | 8,357                   | 1 | 0 | 2 | 80  |                                     |   |   |   |     |
|                  |                    |              | RCCO       | 7,734                   | 1 | 0 | 2 | 74  | 8,305                   | 1 | 0 | 2 | 79  | 8,357                   | 1 | 0 | 2 | 80  |                                     |   |   |   |     |

## 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.

#### L90 and R90 Rotated Optics

| LEDs          | Drive Current (mA) | System Watts | Dist. Type | 30K (3000 K, 70 CRI) |   |   |   |     | 40K (4000 K, 70 CRI) |   |   |   |     | 50K (5000 K, 70 CRI) |   |   |   |     | AMBPC (Amber Phosphor Converted) |   |   |   |     |
|---------------|--------------------|--------------|------------|----------------------|---|---|---|-----|----------------------|---|---|---|-----|----------------------|---|---|---|-----|----------------------------------|---|---|---|-----|
|               |                    |              |            | Lumens               | B | U | G | LPW | Lumens               | B | U | G | LPW | Lumens               | B | U | G | LPW | Lumens                           | B | U | G | LPW |
| 60C (60 LEDs) | 530 mA             | 99 W         | T1S        | 11,569               | 2 | 0 | 2 | 117 | 12,423               | 2 | 0 | 2 | 125 | 12,501               | 2 | 0 | 2 | 126 | 7,167                            | 2 | 0 | 2 | 72  |
|               |                    |              | T2S        | 11,928               | 2 | 0 | 2 | 120 | 12,809               | 3 | 0 | 3 | 129 | 12,889               | 3 | 0 | 3 | 130 | 7,507                            | 2 | 0 | 2 | 76  |
|               |                    |              | T2M        | 11,655               | 2 | 0 | 2 | 118 | 12,516               | 2 | 0 | 3 | 126 | 12,594               | 2 | 0 | 3 | 127 | 7,263                            | 2 | 0 | 2 | 73  |
|               |                    |              | T3S        | 11,641               | 2 | 0 | 2 | 118 | 12,500               | 2 | 0 | 2 | 126 | 12,579               | 2 | 0 | 2 | 127 | 7,424                            | 2 | 0 | 2 | 75  |
|               |                    |              | T3M        | 11,747               | 2 | 0 | 2 | 119 | 12,614               | 2 | 0 | 2 | 127 | 12,693               | 2 | 0 | 2 | 128 | 7,387                            | 2 | 0 | 2 | 75  |
|               |                    |              | T4M        | 11,906               | 2 | 0 | 2 | 120 | 12,785               | 2 | 0 | 2 | 129 | 12,865               | 2 | 0 | 2 | 130 | 7,400                            | 2 | 0 | 2 | 75  |
|               |                    |              | TFTM       | 11,728               | 2 | 0 | 2 | 118 | 12,594               | 2 | 0 | 3 | 127 | 12,673               | 2 | 0 | 3 | 128 | 7,288                            | 1 | 0 | 2 | 74  |
|               |                    |              | TSVS       | 12,390               | 3 | 0 | 1 | 125 | 13,305               | 3 | 0 | 1 | 134 | 13,388               | 3 | 0 | 1 | 135 | 7,734                            | 3 | 0 | 1 | 78  |
|               |                    |              | T5S        | 12,481               | 3 | 0 | 1 | 126 | 13,402               | 3 | 0 | 1 | 135 | 13,486               | 3 | 0 | 1 | 136 | 7,641                            | 3 | 0 | 0 | 77  |
|               |                    |              | T5M        | 12,503               | 3 | 0 | 2 | 126 | 13,426               | 4 | 0 | 2 | 136 | 13,510               | 4 | 0 | 2 | 136 | 7,737                            | 3 | 0 | 2 | 78  |
|               |                    |              | TSW        | 12,320               | 4 | 0 | 2 | 124 | 13,229               | 4 | 0 | 2 | 134 | 13,312               | 4 | 0 | 2 | 134 | 7,522                            | 3 | 0 | 2 | 76  |
|               |                    |              | BLC        | 9,212                | 1 | 0 | 2 | 93  | 9,892                | 1 | 0 | 2 | 100 | 9,954                | 1 | 0 | 2 | 101 |                                  |   |   |   |     |
|               |                    |              | LCCO       | 8,950                | 1 | 0 | 2 | 90  | 9,611                | 2 | 0 | 2 | 97  | 9,671                | 2 | 0 | 2 | 98  |                                  |   |   |   |     |
|               |                    |              | RCCO       | 8,950                | 1 | 0 | 2 | 90  | 9,611                | 2 | 0 | 2 | 97  | 9,671                | 2 | 0 | 2 | 98  |                                  |   |   |   |     |
|               | 700 mA             | 131 W        | T1S        | 14,694               | 2 | 0 | 2 | 112 | 15,779               | 3 | 0 | 3 | 120 | 15,877               | 3 | 0 | 3 | 121 | 8,952                            | 2 | 0 | 2 | 68  |
|               |                    |              | T2S        | 15,150               | 3 | 0 | 3 | 116 | 16,269               | 3 | 0 | 3 | 124 | 16,370               | 3 | 0 | 3 | 125 | 9,377                            | 2 | 0 | 2 | 72  |
|               |                    |              | T2M        | 14,803               | 2 | 0 | 3 | 113 | 15,896               | 3 | 0 | 3 | 121 | 15,995               | 3 | 0 | 3 | 122 | 9,072                            | 2 | 0 | 2 | 69  |
|               |                    |              | T3S        | 14,785               | 2 | 0 | 2 | 113 | 15,877               | 3 | 0 | 3 | 121 | 15,976               | 3 | 0 | 3 | 122 | 9,273                            | 2 | 0 | 2 | 71  |
|               |                    |              | T3M        | 14,919               | 2 | 0 | 2 | 114 | 16,021               | 3 | 0 | 3 | 122 | 16,121               | 3 | 0 | 3 | 123 | 9,227                            | 2 | 0 | 2 | 70  |
|               |                    |              | T4M        | 15,122               | 2 | 0 | 2 | 115 | 16,238               | 3 | 0 | 3 | 124 | 16,340               | 3 | 0 | 3 | 125 | 9,243                            | 2 | 0 | 2 | 71  |
|               |                    |              | TFTM       | 14,896               | 2 | 0 | 3 | 114 | 15,996               | 2 | 0 | 3 | 122 | 16,096               | 2 | 0 | 3 | 123 | 9,103                            | 2 | 0 | 2 | 69  |
|               |                    |              | TSVS       | 15,736               | 3 | 0 | 1 | 120 | 16,898               | 4 | 0 | 1 | 129 | 17,004               | 4 | 0 | 1 | 130 | 9,661                            | 3 | 0 | 1 | 74  |
|               |                    |              | T5S        | 15,852               | 3 | 0 | 1 | 121 | 17,022               | 4 | 0 | 1 | 130 | 17,129               | 4 | 0 | 1 | 131 | 9,544                            | 3 | 0 | 1 | 73  |
|               |                    |              | T5M        | 15,880               | 4 | 0 | 2 | 121 | 17,052               | 4 | 0 | 2 | 130 | 17,159               | 4 | 0 | 2 | 131 | 9,665                            | 3 | 0 | 2 | 74  |
|               |                    |              | TSW        | 15,647               | 4 | 0 | 2 | 119 | 16,802               | 4 | 0 | 2 | 128 | 16,907               | 4 | 0 | 2 | 129 | 9,395                            | 4 | 0 | 2 | 72  |
|               |                    |              | BLC        | 11,728               | 1 | 0 | 2 | 90  | 12,594               | 1 | 0 | 2 | 96  | 12,672               | 3 | 0 | 3 | 97  |                                  |   |   |   |     |
|               |                    |              | LCCO       | 11,394               | 2 | 0 | 3 | 87  | 12,235               | 2 | 0 | 3 | 93  | 12,311               | 2 | 0 | 3 | 94  |                                  |   |   |   |     |
|               |                    |              | RCCO       | 11,394               | 2 | 0 | 3 | 87  | 12,235               | 2 | 0 | 3 | 93  | 12,311               | 2 | 0 | 3 | 94  |                                  |   |   |   |     |
|               | 1000 mA            | 209 W        | T1S        | 20,095               | 3 | 0 | 3 | 96  | 21,579               | 3 | 0 | 3 | 103 | 21,714               | 3 | 0 | 3 | 104 |                                  |   |   |   |     |
|               |                    |              | T2S        | 20,720               | 3 | 0 | 3 | 99  | 22,249               | 3 | 0 | 3 | 106 | 22,388               | 3 | 0 | 3 | 107 |                                  |   |   |   |     |
|               |                    |              | T2M        | 20,245               | 3 | 0 | 3 | 97  | 21,740               | 3 | 0 | 3 | 104 | 21,876               | 3 | 0 | 3 | 105 |                                  |   |   |   |     |
|               |                    |              | T3S        | 20,220               | 3 | 0 | 3 | 97  | 21,713               | 3 | 0 | 3 | 104 | 21,849               | 3 | 0 | 3 | 105 |                                  |   |   |   |     |
|               |                    |              | T3M        | 20,404               | 3 | 0 | 3 | 98  | 21,910               | 3 | 0 | 4 | 105 | 22,047               | 3 | 0 | 4 | 105 |                                  |   |   |   |     |
|               |                    |              | T4M        | 20,681               | 3 | 0 | 3 | 99  | 22,207               | 3 | 0 | 4 | 106 | 22,346               | 3 | 0 | 4 | 107 |                                  |   |   |   |     |
|               |                    |              | TFTM       | 20,372               | 3 | 0 | 3 | 97  | 21,876               | 3 | 0 | 4 | 105 | 22,013               | 3 | 0 | 4 | 105 |                                  |   |   |   |     |
|               |                    |              | TSVS       | 21,521               | 4 | 0 | 1 | 103 | 23,110               | 4 | 0 | 1 | 111 | 23,254               | 4 | 0 | 1 | 111 |                                  |   |   |   |     |
|               |                    |              | T5S        | 21,679               | 4 | 0 | 1 | 104 | 23,280               | 4 | 0 | 1 | 111 | 23,425               | 4 | 0 | 1 | 112 |                                  |   |   |   |     |
|               |                    |              | T5M        | 21,717               | 4 | 0 | 2 | 104 | 23,321               | 5 | 0 | 3 | 112 | 23,466               | 5 | 0 | 3 | 112 |                                  |   |   |   |     |
|               |                    |              | TSW        | 21,399               | 4 | 0 | 3 | 102 | 22,979               | 5 | 0 | 3 | 110 | 23,122               | 5 | 0 | 3 | 111 |                                  |   |   |   |     |
|               |                    |              | BLC        | 15,487               | 2 | 0 | 2 | 74  | 16,630               | 2 | 0 | 2 | 80  | 16,734               | 2 | 0 | 3 | 80  |                                  |   |   |   |     |
|               |                    |              | LCCO       | 15,046               | 2 | 0 | 3 | 72  | 16,157               | 2 | 0 | 3 | 77  | 16,258               | 2 | 0 | 3 | 78  |                                  |   |   |   |     |
|               |                    |              | RCCO       | 15,046               | 2 | 0 | 3 | 72  | 16,157               | 2 | 0 | 3 | 77  | 16,258               | 2 | 0 | 3 | 78  |                                  |   |   |   |     |

## 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 is completely sealed against moisture and environmental contaminants (IP65). Low EPA (1.01 ft<sup>2</sup>) 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.

### OPTICS

Precision-molded proprietary acrylic 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) or optional 3000 K (70 minimum CRI) or 5000 K (70 CRI) configurations. The D-Series Size 1 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 configurations consist of 30, 40 or 60 high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L99/100,000 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 or 6kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

### INSTALLATION

Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 1 to withstand up to a 3.0 G vibration load rating per ANSI C136.31. The D-Series Size 1 utilizes the AERIS™ series pole drilling pattern (template #8). Optional terminal block, tool-less entry, and NEMA photocontrol receptacle are also available.

### LISTINGS

UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP65 rated. Rated for -40°C minimum ambient. U.S. Patent No. D672,492 S. International patent pending.

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org](http://www.designlights.org) to confirm which versions are qualified.

### WARRANTY

5-year limited warranty. Complete warranty terms located at [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx)

**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.





# S4 - landscape accent light

## Round Bullet/Square Hood

### Accent Lighting

#### FEATURES

- Unique swivel mount provides superior aiming without loosening over time
- Constructed out of die-cast aluminum with powder coat paint finish for excellent value and rugged service
- Available with a variety of mounting options



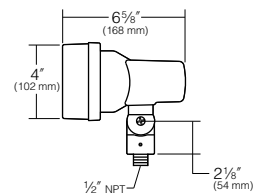
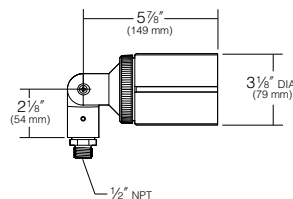
LANDSCAPE

#### ORDERING INFORMATION (Example)

| KLVL202               |                    | 3L3K              |                   | BL             | HL                              | EP17                                 |
|-----------------------|--------------------|-------------------|-------------------|----------------|---------------------------------|--------------------------------------|
| FIXTURE               |                    | ELECTRICAL MODULE |                   | FIXTURE FINISH | FIXTURE OPTIONS                 | MOUNTING OPTIONS                     |
| 12 VOLT ALUMINUM      |                    | Source            | Color Temperature |                |                                 |                                      |
| KLVL202 <sup>1*</sup> | 10W 3 LEDs, 3000K  | 3L 3 LEDs         | 3K 3000K          | BL Black       | HL Hex Cell Louver <sup>2</sup> | EP17 Landscape Light Post Mount      |
| KLVL206 <sup>1*</sup> | 10W, 3 LEDs, 3000K |                   | 4K 4000K          | DB Dark Bronze | PL Prismatic Lens <sup>3</sup>  | KLV400 Spear Mount <sup>5</sup>      |
|                       |                    |                   | 5K 5000K          | GR Verde Green | SL Spread Lens <sup>4</sup>     | KLV405 Surface Mount <sup>5</sup>    |
|                       |                    |                   |                   |                |                                 | KLV415 Extension Module <sup>5</sup> |

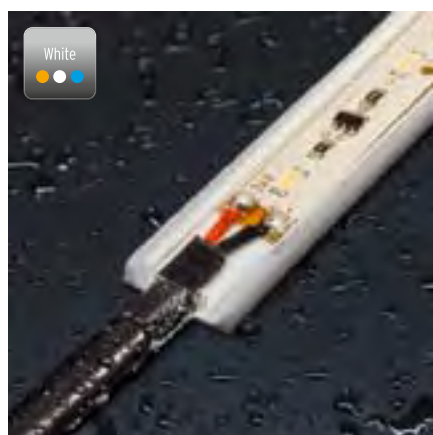
- <sup>1</sup> Remote transformer required, purchased separately.  
<sup>2</sup> Inserts behind lens.  
<sup>3</sup> Replaces standard lens.  
<sup>4</sup> Cannot be used in combination with HL Hex Cell Louver.  
<sup>5</sup> Specify finish, **BL** - Black, **DB** - Dark Bronze, **GR** - Verde Green.

\*Dimmable driver





## VarioLED™ Flex ECO LD White IP67



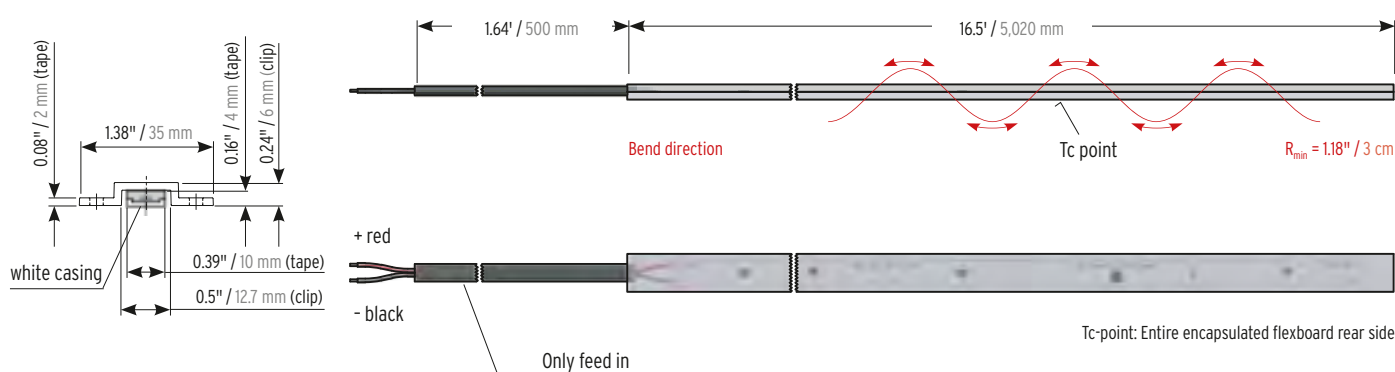
Project name \_\_\_\_\_

Fixture type \_\_\_\_\_ Phase \_\_\_\_\_

Specifier \_\_\_\_\_ Date \_\_\_\_\_

- ▶ up to 3.7 W/ft / 12 W/m
- ▶ up to 249 lm/ft / 820 lm/m
- ▶ One Bin Only: 3 MacAdam
- ▶ up to CRI 85

## Dimensions &amp; available lengths



## Electrical &amp; output data

|                          |                                                                      |
|--------------------------|----------------------------------------------------------------------|
| Step length              | 4.9" / 6 LED / 125 mm / 6 LED                                        |
| Voltage                  | 24 Volt (23 V <sub>min</sub> , 25 V <sub>max</sub> )                 |
| Temperature <sup>2</sup> | T <sub>cmin</sub> = -13°F / -25°C, T <sub>cmax</sub> = 158°F / 70°C  |
| Storage temperature      | T <sub>smin</sub> = -22°F / -30°C, T <sub>smax</sub> = 185°F / 85°C  |
| Ambient temperature      | T <sub>a</sub> min = -13°F / -25°C, T <sub>a</sub> max (Table below) |
| CRI                      | 85                                                                   |
| Ra                       | 20                                                                   |

| VarioLED™ Flex HYDRA                          | LD4                  | LD12                    |
|-----------------------------------------------|----------------------|-------------------------|
| Power (W/ft / W/m) <sup>1</sup>               | 1.5 / 5              | 3.7 / 12                |
| Efficacy (lm/W) <sup>1</sup> @ W850           | 64                   | 68                      |
| max. serial run length (ft / m)               | 16.4 / 5             | 13.1 / 4                |
| Current                                       | 1 A / 25 mA per Step | 2.08 A / 65 mA per Step |
| max. ambient temperature (T <sub>a</sub> max) | 122°F / 50°C         | 113°F / 45°C            |

ONE  
BIN  
ONLY

Lifetime



LM 79 compliant



LM 80 compliant



UV protected



Resistant to solvents



Saltwater resistant

Temporary immersion  
protection

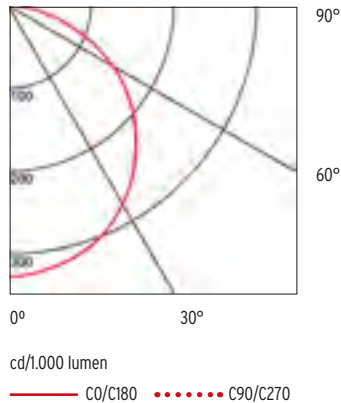
| Color temperature<br>LED tape used | Final color tempera-<br>ture delivered for<br>finished fixture | LD4<br>(low output)<br>lumen/feet (lm/ft) <sup>1</sup> | LD12<br>(high output)<br>lumen/meter (lm/m) <sup>1</sup> |
|------------------------------------|----------------------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|
| W822 2200 K                        | 2700 K                                                         | 87 / 290                                               | 225 / 740                                                |
| W827 2700 K                        | 3300 K                                                         | 87 / 290                                               | 228 / 750                                                |
| W830 3000 K                        | 3700 K                                                         | 87 / 290                                               | 231 / 760                                                |
| W835 3500 K                        | 4200 K                                                         | 90 / 300                                               | 237 / 780                                                |
| W840 4000 K                        | 5800 K                                                         | 93 / 310                                               | 246 / 810                                                |
| W850 5000 K                        | 9300 K                                                         | 97 / 320                                               | 249 / 820                                                |

<sup>1</sup> The given data are typical values. Due to tolerances of the production process and the electrical components, values for light output and electrical power can vary up to 10%.

<sup>2</sup> The position of the Tc-point is marked on each step of the LED strip. The Tc-point should be measured in thermal equilibrium according to IEC EN 60598-1.



Photo: Alejo Baqué



Water & UV resistant flexible linear LED luminaire in polyurethane encapsulation with white casing. 24 V, flexible LED strip with reflective, white surface and a step measurement of 4.9". High quality Japanese LED's with 120° beam angle. Very good color reproduction up to CRI 85 guarantees constant color temperature and light quality at a lifetime of >60,000 hrs (L80/B10). Reel to Reel produced flexible circuit board material with LED Linear™ Tj Away® Technology for optimal heat management. Constant light output and extended lifetime thanks to an integrated circuit (IC) regulation. Protected against electrostatic discharge +/- 2,000 V. Engineered in Germany.

Please click here to configure your light line online

## Order code

VarioLED™ Flex ECO LD White IP67

| Your order code    | VarioLED Flex ECO | LD__ | W8 | __ | 5020 | IP67 |
|--------------------|-------------------|------|----|----|------|------|
| Order code example | VarioLED Flex ECO | LD4  | W8 | 27 | 5020 | IP67 |

### Variant

LD4 ..... LD4

LD12 ..... LD12

### Color rendering

> 80 ..... 8

Final CCT delivered for finished fixture ..... Color temperature LED tape used

2700 K ..... 2200 K ..... 22

3300 K ..... 2700 K ..... 27

3700 K ..... 3000 K ..... 30

4200 K ..... 3500 K ..... 35

5800 K ..... 4000 K ..... 40

9300 K ..... 5000 K ..... 50

### Length

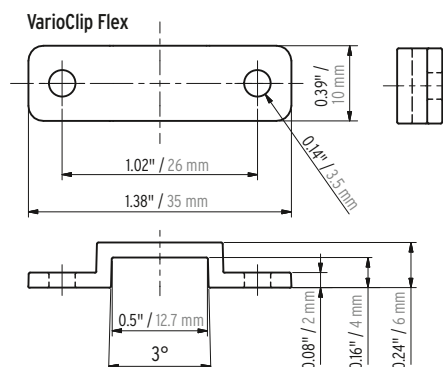
L = 16.5' (5,020 mm) ..... 5020

### Ingress protection

IP67 ..... IP67

## Please choose your accessories

| Mounting                                                                 | Art.-#    |
|--------------------------------------------------------------------------|-----------|
| <input type="checkbox"/> VarioClip Flex 0.5" / 12.7 mm Clear (Set of 50) | 13000115  |
| <input type="checkbox"/> 3M Adhesive tape                                | 182000046 |
| Recommended driver                                                       |           |
| <input type="checkbox"/> MEAN WELL HLG-100H-24A                          |           |
| Recommended control                                                      |           |
| <input type="checkbox"/> EldoLED LINEARdrive DC 180D                     |           |



For further driver options including  click here.



# KBR8 LED

## LED Specification Bollard

Catalog  
Number

Notes

Type

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

### Specifications

8" Round  
(20.3 cm)

**Height:** 40"  
(101.6 cm)

**Weight  
(max):** 27 lbs  
(12.25 kg)



### Introduction

The KBR8 Bollard is a stylish, fully integrated LED solution for walkways. It features a sleek, modern design and is carefully engineered to provide long-lasting, energy-efficient lighting with a variety of optical and control options for customized performance.

With an expected service life of over 20 years of nighttime use and up to 70% in energy savings over comparable 100W metal halide luminaires, the KBR8 Bollard is a reliable, low-maintenance lighting solution that produces sites that are exceptionally illuminated.

### Ordering Information

**EXAMPLE: KBR8 LED 16C 700 40K SYM MVOLT DDBXD**

| KBR8 LED |                                        |                           |                                               |                             |                    |                                            |                                                              |                          |                           |
|----------|----------------------------------------|---------------------------|-----------------------------------------------|-----------------------------|--------------------|--------------------------------------------|--------------------------------------------------------------|--------------------------|---------------------------|
| Series   | LEDs                                   | Drive current             | Color temperature                             | Distribution                | Voltage            | Control options                            | Other options                                                | Finish <i>(required)</i> |                           |
| KBR8 LED | Asymmetric<br>12C 12 LEDs <sup>1</sup> | 350 350 mA                | 30K 3000 K                                    | ASY Asymmetric <sup>1</sup> | MVOLT <sup>5</sup> | Shipped installed                          | Shipped installed                                            | DWHXD                    | White                     |
|          |                                        | 450 450 mA <sup>3,4</sup> | 40K 4000 K                                    | SYM Symmetric <sup>2</sup>  | 120 <sup>5</sup>   | PE Photoelectric cell, button type         | SF Single fuse (120, 277, 347V) <sup>4,7</sup>               | DNAXD                    | Natural aluminum          |
|          |                                        | 530 530 mA                | 50K 5000 K                                    |                             | 208 <sup>5</sup>   | DMG 0-10V dimming driver (no controls)     | DF Double fuse (208, 240V) <sup>4,7</sup>                    | DDBXD                    | Dark bronze               |
|          | Symmetric<br>16C 16 LEDs <sup>2</sup>  | 700 700 mA                | AMBPC Amber phosphor converted                |                             | 240 <sup>5</sup>   | ELCW Emergency battery backup <sup>6</sup> | H24 24" overall height                                       | DBLXD                    | Black                     |
|          |                                        |                           | AMBLW Amber limited wavelength <sup>3,4</sup> |                             | 277 <sup>5</sup>   |                                            | H30 30" overall height                                       | DDBTXD                   | Textured dark bronze      |
|          |                                        |                           |                                               |                             | 347 <sup>4</sup>   |                                            | H36 36" overall height                                       | DBLBXD                   | Textured black            |
|          |                                        |                           |                                               |                             |                    |                                            | FG Ground-fault festoon outlet                               | DNATXD                   | Textured natural aluminum |
|          |                                        |                           |                                               |                             |                    |                                            | L/AB Without anchor bolts (3 bolt base)                      | DWHGXD                   | Textured white            |
|          |                                        |                           |                                               |                             |                    |                                            | L/AB4 4 bolt retrofit base without anchor bolts <sup>8</sup> |                          |                           |

### Accessories

Ordered and shipped separately.

MRAB U Anchor bolts for KBR8 LED<sup>8</sup>

### NOTES

- 1 Only available in the 12C, ASY version.
- 2 Only available in the 16C, SYM version.
- 3 Only available with 450 AMBLW version.
- 4 Not available with ELCW.
- 5 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with fusing (SF, DF options), or photocontrol (PE option).
- 6 Not available with 347V. Not available with fusing. Not available with 450 AMBLW.
- 7 Single fuse (SF) requires 120, 277, or 347 voltage option. Double fuse (DF) requires 208 or 240 voltage option.
- 8 MRAB U not available with L/AB4 option.





## Performance Data

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. Actual performance may differ as a result of end-user environment and application. Actual wattage may differ by +/- 8% when operating between 120-480V +/- 10%.

| Light Engines                  | Drive Current | System Watts | 3000 K |     |   |   |   | 4000 K |     |   |   |   | 5000 K |     |   |   |   | Limited Wavelength Amber |     |   |   |   |
|--------------------------------|---------------|--------------|--------|-----|---|---|---|--------|-----|---|---|---|--------|-----|---|---|---|--------------------------|-----|---|---|---|
|                                |               |              | Lumens | LPW | B | U | G | Lumens | LPW | B | U | G | Lumens | LPW | B | U | G | Lumens                   | LPW | B | U | G |
| Asymmetric 3 Engines (12 LEDs) | 350           | 16           | 641    | 40  | 1 | 1 | 1 | 809    | 51  | 1 | 1 | 1 | 870    | 54  | 1 | 1 | 1 |                          |     |   |   |   |
|                                | 530           | 22           | 947    | 43  | 1 | 1 | 1 | 1,191  | 54  | 1 | 1 | 1 | 1,282  | 58  | 1 | 1 | 1 |                          |     |   |   |   |
|                                | 700           | 31           | 1,214  | 40  | 1 | 1 | 1 | 1,527  | 51  | 1 | 1 | 1 | 1,646  | 55  | 1 | 1 | 1 |                          |     |   |   |   |
|                                | Amber 450     | 16           |        |     |   |   |   |        |     |   |   |   |        |     |   |   |   | 324                      | 20  | 0 | 1 | 0 |
| Symmetric 4 Engines (16 LEDs)  | 350           | 20           | 888    | 44  | 1 | 0 | 0 | 1,116  | 56  | 1 | 0 | 0 | 1,203  | 60  | 1 | 0 | 0 |                          |     |   |   |   |
|                                | 530           | 28           | 1,254  | 45  | 1 | 0 | 0 | 1,598  | 57  | 1 | 0 | 1 | 1,719  | 61  | 1 | 0 | 1 |                          |     |   |   |   |
|                                | 700           | 39           | 1,608  | 41  | 1 | 0 | 1 | 2,022  | 52  | 1 | 0 | 1 | 2,180  | 56  | 2 | 0 | 1 |                          |     |   |   |   |
|                                | Amber 450     | 20           |        |     |   |   |   |        |     |   |   |   |        |     |   |   |   | 374                      | 19  | 0 | 0 | 0 |

**Note:** Available with phosphor-converted amber LED's (nomenclature AMBPC). These LED's produce light with 97+% >530 nm. Output can be calculated by applying a 0.7 factor to 4000 K lumen values and photometric files.

## 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 | 1.00 | 0.98   | 0.97   | 0.95    |

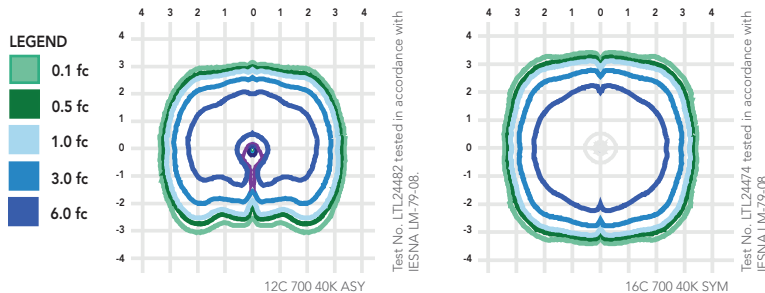
## Electrical Load

| Light Engines | Drive Current (mA) | System Watts | Current (A) |       |       |       |       |
|---------------|--------------------|--------------|-------------|-------|-------|-------|-------|
|               |                    |              | 120         | 208   | 240   | 277   | 347   |
| 12C           | 350                | 16W          | 0.158       | 0.118 | 0.114 | 0.109 | 0.105 |
|               | 530                | 22W          | 0.217       | 0.146 | 0.136 | 0.128 | 0.118 |
|               | 700                | 31W          | 0.296       | 0.185 | 0.168 | 0.153 | 0.139 |
|               | Amber 450          | 16W          | 0.161       | 0.120 | 0.115 | 0.110 | 0.106 |
| 16C           | 350                | 20W          | 0.197       | 0.137 | 0.128 | 0.121 | 0.114 |
|               | 530                | 28W          | 0.282       | 0.178 | 0.162 | 0.148 | 0.135 |
|               | 700                | 39W          | 0.385       | 0.231 | 0.207 | 0.185 | 0.163 |
|               | Amber 450          | 20W          | 0.199       | 0.139 | 0.130 | 0.123 | 0.116 |

## Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [KBR8 Bollard homepage](#).

Isofootcandle plots for the KB LED Bollards. Distances are in units of mounting height (3').



## FEATURES & SPECIFICATIONS

### INTENDED USE

The rugged construction and clean lines of the KBA bollard is ideal for illuminating building entryways, walking paths, and pedestrian plazas, as well as any other location requiring a low mounting height light source with fully cutoff illumination.

### CONSTRUCTION

One-piece 8-inch round extruded aluminum shaft with thick side walls for extreme durability, a high-impact clear acrylic lens and welded top cap. Die-cast aluminum mounting ring allows for easy leveling even in sloped locations and a full 360-degree rotation for precise alignment during installation. Three ½" x 11" anchor bolts with double nuts and washers and 3 ¾" bolt circle template ensure stability. Overall height is 42" standard.

### FINISH

Exterior parts are protected by a zinc-infused super durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering for maximum retention of gloss and luster. A tightly controlled multi-stage process ensures a minimum 3-mil thickness for a finish that can withstand the elements without cracking or peeling. Available in both textured and non-textured finishes.

### OPTICS

Two fully cutoff optical distributions are available: symmetrical and asymmetrical. IP66 sealed LED light engine provides smoothly graduated illumination without any uplight. Light engines are available in standard 4000 K (>70 CRI) or optional 3000 K (>80 CRI) or 5000 K (67 CRI). Limited-wavelength amber LEDs are also available.

### ELECTRICAL

Light engines consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (L95/100,000 hours at 700mA at 25°C). Class 2 electronic drivers are designed for an expected life of 100,000 hours with < 1% failure rate. Electrical components are mounted on a removable power tray.

### LISTINGS

CSA certified to U.S. and Canadian standards. Light engines are IP66 rated. Rated for -40°C minimum ambient. Cold-weather emergency battery backup rated for -20°C minimum ambient.

### WARRANTY

Five-year limited warranty. Complete warranty terms located at [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx).

**Note:** Specifications subject to change without notice.



# D-Series Size 2 LED Wall Luminaire



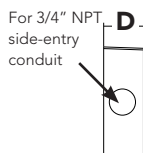
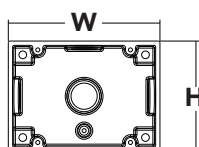
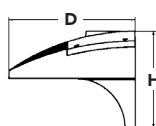
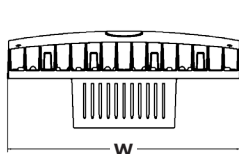
d<sup>series</sup>

## Specifications Luminaire

**Width:** 18-1/2" (47.0 cm)  
**Depth:** 10" (25.4 cm)  
**Height:** 7-5/8" (19.4 cm)

## Back Box (BBW)

**Width:** 5-1/2" (14.0 cm)  
**Depth:** 1-1/2" (3.8 cm)  
**Height:** 4" (10.2 cm)  
**BBW Weight:** 1 lbs (0.5 kg)



Catalog  
Number

Notes

Type

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

## A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL<sup>®</sup> controls marked by a **shaded background**. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocontrol interoperability<sup>1</sup>
- This luminaire is part of an A+ Certified solution for ROAM<sup>®</sup>2 or XPoint<sup>™</sup> Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a **shaded background**<sup>1</sup>

To learn more about A+, visit [www.acuitybrands.com/aplus](http://www.acuitybrands.com/aplus).

1. See ordering tree for details.
2. A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately: [Link to Roam](#); [Link to DTL DLL](#)



A+ Capable options indicated by this color background.

## Ordering Information

EXAMPLE: DSXW2 LED 30C 700 40K T3M MVOLT DDBTXD

| DSXW2 LED |      |                       |               |        |                   |        |              |               |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| Series    | LEDs |                       | Drive Current |        | Color temperature |        | Distribution |               | Voltage            | Mounting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Control Options |  |
| DSXW2 LED | 20C  | 20 LEDs (two engines) | 350           | 350 mA | 30K               | 3000 K | T2S          | Type II Short | MVOLT <sup>1</sup> | Shipped included<br><br>(blank) Surface mounting bracket<br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><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## Ordering Information

### Accessories

Ordered and shipped separately.

|                    |                                                     |
|--------------------|-----------------------------------------------------|
| DLL127F 1.5 JU     | Photocell - SSL twist-lock (120-277V) <sup>10</sup> |
| DLL347F 1.5 CUL JU | Photocell - SSL twist-lock (347V) <sup>10</sup>     |
| DLL480F 1.5 CUL JU | Photocell - SSL twist-lock (480V) <sup>10</sup>     |
| DSHORT SBK U       | Shorting cap <sup>10</sup>                          |
| DSXWHS U           | House-side shield (one per light engine)            |
| DSXWBSW U          | Bird-deterrent spikes                               |
| DSXW2WG U          | Wire guard accessory                                |
| DSXW2VG U          | Vandal guard accessory                              |
| DSXW2BBW           | Back box accessory                                  |
| DOBXD U            | (specify finish)                                    |

For more control options, visit [DTL](#) and [ROAM](#) online.

### NOTES

- 1 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with fusing (SF, DF options), or photocontrol (PE option).
- 2 Available with 30 LED/700mA options only (DSXW2 LED 30C 700). DMG option not available.
- 3 Also available as a separate accessory; see Accessories information.
- 4 Photocontrol (PE) requires 120, 208, 240 or 347 voltage option. Not available with motion/ambient light sensors (PIR or PIRH).
- 5 Specifies a ROAM® enabled luminaire with 0-10V dimming capability; PER option required. Not available with 347V, 480V or PIRH. Additional hardware and services required for ROAM® deployment; must be purchased separately. Call 1-800-442-6745 or email: sales@roamservices.net.
- 6 Specifies the [Sensor Switch SBGR-6-ODP](#) control; see [Outdoor Control Technical Guide](#) for details. Includes ambient light sensor. Not available with "PE" option (button type photocell) or DCR. Dimming driver standard.
- 7 PIR and PIR1FC3V specify the [SensorSwitch SBGR-10-ODP](#) control; PIRH and PIRH1FC3V specify the [SensorSwitch SBGR-6-ODP](#) control; see [Motion Sensor Guide](#) for details. Dimming driver standard. Not available with PER5 or PER7. Ambient sensor disabled when ordered with DCR. Separate on/off required.
- 8 Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
- 9 See the electrical section on page 2 for more details.
- 10 Requires luminaire to be specified with PER option. Ordered and shipped as a separate line item.

## 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.

| LEDs      | Drive Current (mA) | System Watts | Dist. Type | 30K    |   |   |   |     | 40K    |   |   |   |     | 50K    |   |   |   |     | AMBER  |   |   |   |     |
|-----------|--------------------|--------------|------------|--------|---|---|---|-----|--------|---|---|---|-----|--------|---|---|---|-----|--------|---|---|---|-----|
|           |                    |              |            | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW |
| (20 LEDs) | 350 mA             | 25W          | T2S        | 2,783  | 1 | 0 | 1 | 111 | 2,989  | 1 | 0 | 1 | 120 | 3,007  | 1 | 0 | 1 | 120 | 1,720  | 1 | 0 | 1 | 69  |
|           |                    |              | T2M        | 2,708  | 1 | 0 | 1 | 108 | 2,908  | 1 | 0 | 1 | 116 | 2,926  | 1 | 0 | 1 | 117 | 1,673  | 1 | 0 | 1 | 67  |
|           |                    |              | T3S        | 2,748  | 1 | 0 | 1 | 110 | 2,951  | 1 | 0 | 1 | 118 | 2,970  | 1 | 0 | 1 | 119 | 1,698  | 0 | 0 | 1 | 68  |
|           |                    |              | T3M        | 2,793  | 1 | 0 | 1 | 112 | 2,999  | 1 | 0 | 1 | 120 | 3,018  | 1 | 0 | 1 | 121 | 1,726  | 1 | 0 | 1 | 69  |
|           |                    |              | T4M        | 2,756  | 1 | 0 | 1 | 110 | 2,959  | 1 | 0 | 1 | 118 | 2,978  | 1 | 0 | 1 | 119 | 1,703  | 0 | 0 | 1 | 68  |
|           |                    |              | TFTM       | 2,754  | 1 | 0 | 1 | 110 | 2,957  | 1 | 0 | 1 | 118 | 2,975  | 1 | 0 | 1 | 119 | 1,701  | 0 | 0 | 1 | 68  |
|           |                    |              | T2S        | 4,029  | 1 | 0 | 1 | 112 | 4,327  | 1 | 0 | 1 | 120 | 4,354  | 1 | 0 | 1 | 121 | 1,698  | 0 | 0 | 1 | 68  |
|           |                    |              | T2M        | 3,920  | 1 | 0 | 1 | 109 | 4,210  | 1 | 0 | 1 | 117 | 4,236  | 1 | 0 | 1 | 118 | 1,726  | 1 | 0 | 1 | 69  |
|           | 530 mA             | 36W          | T3S        | 3,979  | 1 | 0 | 1 | 111 | 4,272  | 1 | 0 | 1 | 119 | 4,299  | 1 | 0 | 1 | 119 | 1,720  | 1 | 0 | 1 | 69  |
|           |                    |              | T3M        | 4,044  | 1 | 0 | 1 | 112 | 4,342  | 1 | 0 | 2 | 121 | 4,369  | 1 | 0 | 2 | 121 | 1,701  | 0 | 0 | 1 | 68  |
|           |                    |              | T4M        | 3,990  | 1 | 0 | 1 | 111 | 4,284  | 1 | 0 | 1 | 119 | 4,311  | 1 | 0 | 1 | 120 | 1,703  | 0 | 0 | 1 | 68  |
|           |                    |              | TFTM       | 3,986  | 1 | 0 | 1 | 111 | 4,281  | 1 | 0 | 1 | 119 | 4,307  | 1 | 0 | 1 | 120 | 1,673  | 1 | 0 | 1 | 67  |
|           |                    |              | T2S        | 5,130  | 1 | 0 | 1 | 109 | 5,509  | 1 | 0 | 1 | 117 | 5,544  | 1 | 0 | 1 | 118 | 2,473  | 1 | 0 | 1 | 69  |
|           |                    |              | T2M        | 4,991  | 1 | 0 | 1 | 106 | 5,360  | 1 | 0 | 1 | 114 | 5,393  | 1 | 0 | 2 | 115 | 2,406  | 1 | 0 | 1 | 67  |
|           |                    |              | T3S        | 5,066  | 1 | 0 | 1 | 108 | 5,440  | 1 | 0 | 1 | 116 | 5,474  | 1 | 0 | 1 | 116 | 2,442  | 1 | 0 | 1 | 68  |
|           |                    |              | T3M        | 5,148  | 1 | 0 | 2 | 110 | 5,528  | 1 | 0 | 2 | 118 | 5,563  | 1 | 0 | 2 | 118 | 2,482  | 1 | 0 | 1 | 69  |
|           | 700 mA             | 47W          | T4M        | 5,080  | 1 | 0 | 1 | 108 | 5,455  | 1 | 0 | 1 | 116 | 5,489  | 1 | 0 | 2 | 117 | 2,449  | 1 | 0 | 1 | 68  |
|           |                    |              | TFTM       | 5,076  | 1 | 0 | 1 | 108 | 5,450  | 1 | 0 | 1 | 116 | 5,484  | 1 | 0 | 2 | 117 | 2,447  | 1 | 0 | 1 | 68  |
|           |                    |              | T2S        | 7,148  | 1 | 0 | 1 | 97  | 7,675  | 1 | 0 | 1 | 104 | 7,723  | 1 | 0 | 1 | 104 | 3,060  | 1 | 0 | 1 | 65  |
|           |                    |              | T2M        | 6,954  | 1 | 0 | 2 | 94  | 7,467  | 1 | 0 | 2 | 101 | 7,514  | 2 | 0 | 2 | 102 | 2,977  | 1 | 0 | 1 | 63  |
|           |                    |              | T3S        | 7,058  | 1 | 0 | 1 | 95  | 7,579  | 1 | 0 | 1 | 102 | 7,626  | 1 | 0 | 2 | 103 | 3,021  | 1 | 0 | 1 | 64  |
|           |                    |              | T3M        | 7,173  | 1 | 0 | 2 | 97  | 7,702  | 1 | 0 | 2 | 104 | 7,750  | 1 | 0 | 2 | 105 | 3,070  | 1 | 0 | 1 | 65  |
|           |                    |              | T4M        | 7,077  | 1 | 0 | 2 | 96  | 7,599  | 1 | 0 | 2 | 103 | 7,647  | 1 | 0 | 2 | 103 | 3,029  | 1 | 0 | 1 | 64  |
|           |                    |              | TFTM       | 7,071  | 1 | 0 | 2 | 96  | 7,593  | 1 | 0 | 2 | 103 | 7,641  | 1 | 0 | 2 | 103 | 3,027  | 1 | 0 | 1 | 64  |
| (30 LEDs) | 350 mA             | 36W          | T2S        | 4,160  | 1 | 0 | 1 | 116 | 4,467  | 1 | 0 | 1 | 124 | 4,495  | 1 | 0 | 1 | 125 | 2,573  | 1 | 0 | 1 | 103 |
|           |                    |              | T2M        | 4,047  | 1 | 0 | 1 | 112 | 4,346  | 1 | 0 | 1 | 121 | 4,373  | 1 | 0 | 1 | 121 | 2,503  | 1 | 0 | 1 | 100 |
|           |                    |              | T3S        | 4,107  | 1 | 0 | 1 | 114 | 4,411  | 1 | 0 | 1 | 123 | 4,438  | 1 | 0 | 1 | 123 | 2,541  | 1 | 0 | 1 | 102 |
|           |                    |              | T3M        | 4,174  | 1 | 0 | 1 | 116 | 4,482  | 1 | 0 | 2 | 125 | 4,511  | 1 | 0 | 2 | 125 | 2,582  | 1 | 0 | 1 | 103 |
|           |                    |              | T4M        | 4,119  | 1 | 0 | 1 | 114 | 4,423  | 1 | 0 | 1 | 123 | 4,450  | 1 | 0 | 1 | 124 | 2,547  | 1 | 0 | 1 | 102 |
|           |                    |              | TFTM       | 4,115  | 1 | 0 | 1 | 114 | 4,419  | 1 | 0 | 1 | 123 | 4,447  | 1 | 0 | 1 | 124 | 2,545  | 1 | 0 | 1 | 102 |
|           |                    |              | T2S        | 6,001  | 1 | 0 | 1 | 111 | 6,444  | 1 | 0 | 1 | 119 | 6,485  | 1 | 0 | 1 | 120 | 2,573  | 1 | 0 | 1 | 71  |
|           |                    |              | T2M        | 5,839  | 1 | 0 | 1 | 108 | 6,270  | 1 | 0 | 2 | 116 | 6,309  | 1 | 0 | 2 | 117 | 2,503  | 1 | 0 | 1 | 70  |
|           | 530 mA             | 54W          | T3S        | 5,926  | 1 | 0 | 1 | 110 | 6,363  | 1 | 0 | 1 | 118 | 6,403  | 1 | 0 | 1 | 119 | 2,541  | 1 | 0 | 1 | 71  |
|           |                    |              | T3M        | 6,022  | 1 | 0 | 2 | 112 | 6,467  | 1 | 0 | 2 | 120 | 6,507  | 1 | 0 | 2 | 121 | 2,582  | 1 | 0 | 1 | 72  |
|           |                    |              | T4M        | 5,942  | 1 | 0 | 1 | 110 | 6,381  | 1 | 0 | 2 | 118 | 6,420  | 1 | 0 | 2 | 119 | 2,547  | 1 | 0 | 1 | 71  |
|           |                    |              | TFTM       | 5,937  | 1 | 0 | 1 | 110 | 6,375  | 1 | 0 | 2 | 118 | 6,415  | 1 | 0 | 2 | 119 | 2,545  | 1 | 0 | 1 | 71  |
|           |                    |              | T2S        | 7,609  | 1 | 0 | 1 | 107 | 8,170  | 1 | 0 | 1 | 115 | 8,221  | 2 | 0 | 2 | 116 | 3,696  | 1 | 0 | 1 | 68  |
|           |                    |              | T2M        | 7,402  | 1 | 0 | 2 | 104 | 7,949  | 2 | 0 | 2 | 112 | 7,999  | 2 | 0 | 2 | 113 | 3,596  | 1 | 0 | 1 | 67  |
|           |                    |              | T3S        | 7,513  | 1 | 0 | 1 | 106 | 8,068  | 1 | 0 | 2 | 114 | 8,118  | 1 | 0 | 2 | 114 | 3,649  | 1 | 0 | 1 | 68  |
|           |                    |              | T3M        | 7,635  | 1 | 0 | 2 | 108 | 8,199  | 1 | 0 | 2 | 115 | 8,250  | 2 | 0 | 3 | 116 | 3,709  | 1 | 0 | 2 | 69  |
|           | 700 mA             | 71W          | T4M        | 7,533  | 1 | 0 | 2 | 106 | 8,089  | 1 | 0 | 2 | 114 | 8,140  | 1 | 0 | 2 | 115 | 3,659  | 1 | 0 | 1 | 68  |
|           |                    |              | TFTM       | 7,527  | 1 | 0 | 2 | 106 | 8,083  | 1 | 0 | 2 | 114 | 8,133  | 1 | 0 | 2 | 115 | 3,656  | 1 | 0 | 1 | 68  |
|           |                    |              | T2S        | 10,468 | 2 | 0 | 2 | 96  | 11,241 | 2 | 0 | 2 | 103 | 11,311 | 2 | 0 | 2 | 104 | 4,559  | 1 | 0 | 1 | 64  |
|           |                    |              | T2M        | 10,184 | 2 | 0 | 2 | 93  | 10,936 | 2 | 0 | 2 | 100 | 11,004 | 2 | 0 | 2 | 101 | 4,436  | 1 | 0 | 2 | 62  |
|           |                    |              | T3S        | 10,336 | 1 | 0 | 2 | 95  | 11,099 | 1 | 0 | 2 | 102 | 11,169 | 2 | 0 | 2 | 102 | 4,502  | 1 | 0 | 1 | 63  |
|           |                    |              | T3M        | 10,505 | 2 | 0 | 3 | 96  | 11,280 | 2 | 0 | 3 | 103 | 11,351 | 2 | 0 | 3 | 104 | 4,575  | 1 | 0 | 2 | 64  |
|           |                    |              | T4M        | 10,364 | 1 | 0 | 2 | 95  | 11,129 | 1 | 0 | 2 | 102 | 11,199 | 2 | 0 | 2 | 103 | 4,514  | 1 | 0 | 2 | 64  |
|           |                    |              | TFTM       | 10,356 | 1 | 0 | 2 | 95  | 11,120 | 2 | 0 | 2 | 102 | 11,190 | 2 | 0 | 2 | 103 | 4,510  | 1 | 0 | 1 | 64  |

### Note:

Available with phosphor-converted amber LED's (nomenclature AMBPC). These LED's produce light with 97+% >530 nm. Output can be calculated by applying a 0.7 factor to 4000 K lumen values and photometric files.



## 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        | 1.02             |
| 10°C        | 50°F        | 1.01             |
| 20°C        | 68°F        | 1.00             |
| <b>25°C</b> | <b>77°F</b> | <b>1.00</b>      |
| 30°C        | 86°F        | 1.00             |
| 40°C        | 104°F       | 0.98             |

### Electrical Load

| LEDs | Drive Current (mA) | System Watts | Current (A) |      |      |      |      |      |
|------|--------------------|--------------|-------------|------|------|------|------|------|
|      |                    |              | 120V        | 208V | 240V | 277V | 347V | 480V |
| 20C  | 350                | 25 W         | 0.23        | 0.13 | 0.12 | 0.10 | -    | -    |
|      | 530                | 36 W         | 0.33        | 0.19 | 0.17 | 0.14 | -    | -    |
|      | 700                | 47 W         | 0.44        | 0.25 | 0.22 | 0.19 | -    | -    |
|      | 1000               | 74 W         | 0.68        | 0.39 | 0.34 | 0.29 | -    | -    |
| 30C  | 350                | 36 W         | 0.33        | 0.19 | 0.17 | 0.14 | -    | -    |
|      | 530                | 54 W         | 0.50        | 0.29 | 0.25 | 0.22 | -    | -    |
|      | 700                | 71 W         | 0.66        | 0.38 | 0.33 | 0.28 | 0.23 | 0.16 |
|      | 1000               | 109 W        | 1.01        | 0.58 | 0.50 | 0.44 | -    | -    |

### Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **DSXW2 LED 30C 1000** platform 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).

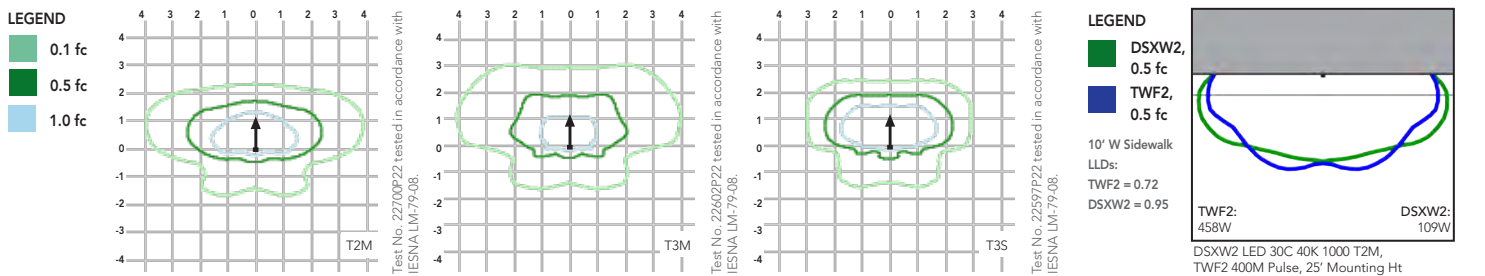
To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

| Operating Hours          | 0   | 25,000 | 50,000 | 100,000 |
|--------------------------|-----|--------|--------|---------|
| Lumen Maintenance Factor | 1.0 | 0.95   | 0.92   | 0.87    |

## Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [D-Series Wall Size 2 homepage](#).

Isofootcandle plots for the DSXW2 LED 30C 1000 40K. Distances are in units of mounting height (25').



## FEATURES & SPECIFICATIONS

### INTENDED USE

The energy savings, long life and easy-to-install design of the D-Series Wall Size 2 make it the smart choice for building-mounted doorway and pathway illumination for nearly any facility.

### CONSTRUCTION

Two-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. The LED driver is mounted to the door to thermally isolate it from the light engines for low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65).

### 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 textured and non-textured finishes.

### OPTICS

Precision-molded proprietary acrylic lenses provide multiple photometric distributions tailored specifically to building mounted applications. Light engines are available in 3000 K (70 min. CRI), 4000 K (70 min. CRI) or 5000 K (70 min. CRI) configurations.

### ELECTRICAL

Light engine(s) consist of 10 high-efficacy LEDs mounted to a metal-core circuit board to maximize heat dissipation and promote long life (L87/100,000 hrs at 25°C). Class 1 electronic drivers have a power factor >90%, THD <20%, and a minimum 2.5KV surge rating. When ordering the SPD option, a separate surge protection device is installed within the luminaire which meets a minimum Category C Low (per ANSI/IEEE C62.41.2).

### INSTALLATION

Included universal mounting bracket attaches securely to any 4" round or square outlet box for quick and easy installation. Luminaire has a slotted gasket wireway and attaches to the mounting bracket via corrosion-resistant screws.

### LISTINGS

CSA certified to U.S. and Canadian standards. Rated for -40°C minimum ambient.

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org](http://www.designlights.org) to confirm which versions are qualified.

### WARRANTY

Five-year limited warranty. Complete warranty terms located at [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx).

**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.







# D-Series Size 1 LED Wall Luminaire



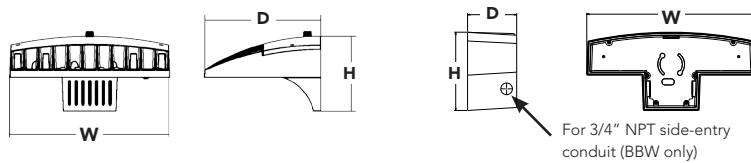
d#series

## Specifications Luminaire

|                |                      |                |                    |
|----------------|----------------------|----------------|--------------------|
| <b>Width:</b>  | 13-3/4"<br>(34.9 cm) | <b>Weight:</b> | 12 lbs<br>(5.4 kg) |
| <b>Depth:</b>  | 10"<br>(25.4 cm)     |                |                    |
| <b>Height:</b> | 6-3/8"<br>(16.2 cm)  |                |                    |

## Back Box (BBW, ELCW)

|                |                      |                     |                    |
|----------------|----------------------|---------------------|--------------------|
| <b>Width:</b>  | 13-3/4"<br>(34.9 cm) | <b>BBW Weight:</b>  | 5 lbs<br>(2.3 kg)  |
| <b>Depth:</b>  | 4"<br>(10.2 cm)      | <b>ELCW Weight:</b> | 10 lbs<br>(4.5 kg) |
| <b>Height:</b> | 6-3/8"<br>(16.2 cm)  |                     |                    |



Catalog  
Number

Notes

Type

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

## Introduction

The D-Series Wall luminaire is a stylish, fully integrated LED solution for building-mount applications. It features a sleek, modern design and is carefully engineered to provide long-lasting, energy-efficient lighting with a variety of optical and control options for customized performance.

With an expected service life of over 20 years of nighttime use and up to 74% in energy savings over comparable 250W metal halide luminaires, the D-Series Wall is a reliable, low-maintenance lighting solution that produces sites that are exceptionally illuminated.

## Ordering Information

**EXAMPLE: DSXW1 LED 20C 1000 40K T3M MVOLT DDBTXD**

| Series    | LEDs                                                                     | Drive Current                                                                                   | Color temperature                                                                                           | Distribution                                                                                                                                                                                                                   | Voltage                                                                                                                                                                                        | Mounting                                                                                                                             | Control Options                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DSXW1 LED | <div>10C 10 LEDs (one engine)</div> <div>20C 20 LEDs (two engines)</div> | <div>350 350 mA</div> <div>530 530 mA</div> <div>700 700 mA</div> <div>1000 1000 mA (1 A)</div> | <div>30K 3000 K</div> <div>40K 4000 K</div> <div>50K 5000 K</div> <div>AMBPC Amber phosphor converted</div> | <div>T2S Type II Short</div> <div>T2M Type II Medium</div> <div>T3S Type III Short</div> <div>T3M Type III Medium</div> <div>T4M Type IV Medium</div> <div>TFTM Forward Throw Medium</div> <div>ASYDF Asymmetric diffuse</div> | <div>MVOLT<sup>1</sup></div> <div>120<sup>1</sup></div> <div>208<sup>1</sup></div> <div>240<sup>1</sup></div> <div>277<sup>1</sup></div> <div>347<sup>2</sup></div> <div>480<sup>2</sup></div> | <div>Shipped included (blank) Surface mounting bracket</div> <div>BBW Surface-mounted back box (for conduit entry)<sup>3</sup></div> | <div>Shipped installed</div> <div>PE Photoelectric cell, button type<sup>4</sup></div> <div>DMG 0-10V dimming driver (no controls)</div> <div>PIR 180° motion/ambient light sensor, &lt;15' mtg ht<sup>5</sup></div> <div>PIRH 180° motion/ambient light sensor, 15-30' mtg ht<sup>5</sup></div> <div>PIR1FC3V Motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc<sup>5</sup></div> <div>PIRH1FC3V Motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc<sup>5</sup></div> <div>ELCW Emergency battery backup (includes external component enclosure)<sup>6</sup></div> |

## Other Options

## Finish (required)

### Shipped installed

|     |                                             |
|-----|---------------------------------------------|
| SF  | Single fuse (120, 277 or 347V) <sup>7</sup> |
| DF  | Double fuse (208, 240 or 480V) <sup>7</sup> |
| HS  | House-side shield <sup>8</sup>              |
| SPD | Separate surge protection <sup>9</sup>      |

### Shipped separately<sup>8</sup>

|     |                       |
|-----|-----------------------|
| BSW | Bird-deterrent spikes |
| WG  | Wire guard            |
| VG  | Vandal guard          |
| DDL | Diffused drop lens    |

|       |                  |
|-------|------------------|
| DDBXD | Dark bronze      |
| DBLXD | Black            |
| DNAXD | Natural aluminum |
| DWHXD | White            |

|        |                           |
|--------|---------------------------|
| DSSXD  | Sandstone                 |
| DBTDXD | Textured dark bronze      |
| DBLBDX | Textured black            |
| DNATXD | Textured natural aluminum |

|        |                    |
|--------|--------------------|
| DWHGXD | Textured white     |
| DSSTXD | Textured sandstone |

## Accessories

Ordered and shipped separately.

|           |                                          |
|-----------|------------------------------------------|
| DSXWHS U  | House-side shield (one per light engine) |
| DSXWBSW U | Bird-deterrent spikes                    |
| DSXW1WG U | Wire guard accessory                     |
| DSXW1VG U | Vandal guard accessory                   |

## NOTES

- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with fusing (SF, DF options), or photocontrol (PE option).
- Only available with 20C, 700mA or 1000mA. Not available with PIR or PIRH.
- Back box ships installed on fixture. Cannot be field installed. Cannot be ordered as an accessory.
- Photocontrol (PE) requires 120, 208, 240, 277 or 347 voltage option. Not available with motion/ambient light sensors (PIR or PIRH).
- PIR and PIR1FC3V specifies the [Sensor Switch SBGR-10-ODP](#) control; PIRH specifies the [Sensor Switch SBGR-6-ODP](#) control; see [Motion Sensor Guide](#) for details. Includes ambient light sensor. Not available with "PE" option (button type photocell). Dimming driver standard. Not available with 20 LED/1000 mA configuration (DSXW1 LED 20C 1000).
- Cold weather (-20C) rated. Not compatible with conduit entry applications. Not available with BBW mounting option. Not available with fusing. Not available with 347 or 480 voltage options. Emergency components located in back box housing. Emergency mode IES files located on product page at [www.lithonia.com](http://www.lithonia.com)
- Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option. Not available with ELCW.
- Also available as a separate accessory; see Accessories information.
- See the electrical section on page 3 for more details.



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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.

| LEDs      | Drive Current (mA) | System Watts | Dist. Type | 30K    |   |   |   |     | 40K    |   |   |   |     | 50K    |   |   |   |     | AMBER  |   |   |   |     |
|-----------|--------------------|--------------|------------|--------|---|---|---|-----|--------|---|---|---|-----|--------|---|---|---|-----|--------|---|---|---|-----|
|           |                    |              |            | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW |
| (10 LEDs) | 350mA              | 14W          | T2S        | 1,415  | 0 | 0 | 1 | 101 | 1,520  | 0 | 0 | 1 | 109 | 1,529  | 0 | 0 | 1 | 109 | 894    | 0 | 0 | 1 | 64  |
|           |                    |              | T2M        | 1,349  | 0 | 0 | 1 | 96  | 1,449  | 0 | 0 | 1 | 104 | 1,458  | 0 | 0 | 1 | 104 | 852    | 0 | 0 | 1 | 61  |
|           |                    |              | T3S        | 1,400  | 0 | 0 | 1 | 100 | 1,503  | 0 | 0 | 1 | 107 | 1,512  | 0 | 0 | 1 | 108 | 884    | 0 | 0 | 1 | 63  |
|           |                    |              | T3M        | 1,386  | 0 | 0 | 1 | 99  | 1,488  | 0 | 0 | 1 | 106 | 1,497  | 0 | 0 | 1 | 107 | 876    | 0 | 0 | 1 | 63  |
|           |                    |              | T4M        | 1,358  | 0 | 0 | 1 | 97  | 1,458  | 0 | 0 | 1 | 104 | 1,467  | 0 | 0 | 1 | 105 | 858    | 0 | 0 | 1 | 61  |
|           |                    |              | TFTM       | 1,411  | 0 | 0 | 1 | 101 | 1,515  | 0 | 0 | 1 | 108 | 1,525  | 0 | 0 | 1 | 109 | 892    | 0 | 0 | 1 | 64  |
|           |                    |              | ASYDF      | 1,262  | 0 | 0 | 1 | 90  | 1,355  | 1 | 0 | 1 | 97  | 1,363  | 1 | 0 | 1 | 97  | 797    | 0 | 0 | 1 | 57  |
|           | 530 mA             | 20W          | T2S        | 2,054  | 1 | 0 | 1 | 103 | 2,205  | 1 | 0 | 1 | 110 | 2,219  | 1 | 0 | 1 | 111 | 1,264  | 0 | 0 | 1 | 63  |
|           |                    |              | T2M        | 1,957  | 1 | 0 | 1 | 98  | 2,102  | 1 | 0 | 1 | 105 | 2,115  | 1 | 0 | 1 | 106 | 1,205  | 0 | 0 | 1 | 60  |
|           |                    |              | T3S        | 2,031  | 0 | 0 | 1 | 102 | 2,181  | 0 | 0 | 1 | 109 | 2,195  | 0 | 0 | 1 | 110 | 1,250  | 0 | 0 | 1 | 63  |
|           |                    |              | T3M        | 2,010  | 1 | 0 | 1 | 101 | 2,159  | 1 | 0 | 1 | 108 | 2,172  | 1 | 0 | 1 | 109 | 1,237  | 0 | 0 | 1 | 62  |
|           |                    |              | T4M        | 1,970  | 1 | 0 | 1 | 99  | 2,115  | 1 | 0 | 1 | 106 | 2,128  | 0 | 0 | 1 | 106 | 1,212  | 0 | 0 | 1 | 61  |
|           |                    |              | TFTM       | 2,047  | 0 | 0 | 1 | 102 | 2,198  | 0 | 0 | 1 | 110 | 2,212  | 0 | 0 | 1 | 111 | 1,260  | 0 | 0 | 1 | 63  |
|           |                    |              | ASYDF      | 1,830  | 1 | 0 | 1 | 92  | 1,966  | 1 | 0 | 1 | 98  | 1,978  | 1 | 0 | 1 | 99  | 1,127  | 0 | 0 | 1 | 56  |
|           | 700 mA             | 27W          | T2S        | 2,623  | 1 | 0 | 1 | 97  | 2,816  | 1 | 0 | 1 | 104 | 2,834  | 1 | 0 | 1 | 105 | 1,544  | 0 | 0 | 1 | 57  |
|           |                    |              | T2M        | 2,499  | 1 | 0 | 1 | 93  | 2,684  | 1 | 0 | 1 | 99  | 2,701  | 1 | 0 | 1 | 100 | 1,472  | 0 | 0 | 1 | 55  |
|           |                    |              | T3S        | 2,593  | 1 | 0 | 1 | 96  | 2,785  | 1 | 0 | 1 | 103 | 2,802  | 1 | 0 | 1 | 104 | 1,527  | 0 | 0 | 1 | 57  |
|           |                    |              | T3M        | 2,567  | 1 | 0 | 1 | 95  | 2,757  | 1 | 0 | 1 | 102 | 2,774  | 1 | 0 | 1 | 103 | 1,512  | 0 | 0 | 1 | 56  |
|           |                    |              | T4M        | 2,515  | 1 | 0 | 1 | 93  | 2,701  | 1 | 0 | 1 | 100 | 2,718  | 1 | 0 | 1 | 101 | 1,481  | 0 | 0 | 1 | 55  |
|           |                    |              | TFTM       | 2,614  | 1 | 0 | 1 | 97  | 2,807  | 1 | 0 | 1 | 104 | 2,825  | 1 | 0 | 1 | 105 | 1,539  | 0 | 0 | 1 | 57  |
|           |                    |              | ASYDF      | 2,337  | 1 | 0 | 1 | 87  | 2,510  | 1 | 0 | 1 | 93  | 2,526  | 1 | 0 | 1 | 94  | 1,376  | 0 | 0 | 1 | 51  |
|           | 1000 mA            | 40W          | T2S        | 3,685  | 1 | 0 | 1 | 92  | 3,957  | 1 | 0 | 1 | 99  | 3,982  | 1 | 0 | 1 | 100 | 2,235  | 1 | 0 | 1 | 58  |
|           |                    |              | T2M        | 3,512  | 1 | 0 | 1 | 88  | 3,771  | 1 | 0 | 1 | 94  | 3,795  | 1 | 0 | 1 | 95  | 2,130  | 1 | 0 | 2 | 55  |
|           |                    |              | T3S        | 3,644  | 1 | 0 | 1 | 91  | 3,913  | 1 | 0 | 1 | 98  | 3,938  | 1 | 0 | 1 | 98  | 2,210  | 1 | 0 | 2 | 57  |
|           |                    |              | T3M        | 3,607  | 1 | 0 | 1 | 90  | 3,874  | 1 | 0 | 1 | 97  | 3,898  | 1 | 0 | 1 | 97  | 2,187  | 1 | 0 | 2 | 56  |
|           |                    |              | T4M        | 3,534  | 1 | 0 | 1 | 88  | 3,795  | 1 | 0 | 1 | 95  | 3,819  | 1 | 0 | 1 | 95  | 2,143  | 1 | 0 | 2 | 55  |
|           |                    |              | TFTM       | 3,674  | 1 | 0 | 1 | 92  | 3,945  | 1 | 0 | 1 | 99  | 3,969  | 1 | 0 | 1 | 99  | 2,228  | 1 | 0 | 2 | 57  |
|           |                    |              | ASYDF      | 3,284  | 1 | 0 | 1 | 82  | 3,527  | 1 | 0 | 1 | 88  | 3,549  | 1 | 0 | 1 | 89  | 1,991  | 1 | 0 | 2 | 51  |
| (20 LEDs) | 350mA              | 24W          | T2S        | 2,820  | 1 | 0 | 1 | 118 | 3,028  | 1 | 0 | 1 | 126 | 3,047  | 1 | 0 | 1 | 127 | 1,777  | 1 | 0 | 1 | 74  |
|           |                    |              | T2M        | 2,688  | 1 | 0 | 1 | 112 | 2,886  | 1 | 0 | 1 | 120 | 2,904  | 1 | 0 | 1 | 121 | 1,693  | 1 | 0 | 1 | 71  |
|           |                    |              | T3S        | 2,789  | 1 | 0 | 1 | 116 | 2,995  | 1 | 0 | 2 | 125 | 3,013  | 1 | 0 | 2 | 126 | 1,757  | 0 | 0 | 1 | 73  |
|           |                    |              | T3M        | 2,761  | 1 | 0 | 1 | 115 | 2,964  | 1 | 0 | 2 | 124 | 2,983  | 1 | 0 | 2 | 124 | 1,739  | 1 | 0 | 1 | 72  |
|           |                    |              | T4M        | 2,705  | 1 | 0 | 1 | 113 | 2,904  | 1 | 0 | 2 | 121 | 2,922  | 1 | 0 | 2 | 122 | 1,704  | 1 | 0 | 1 | 71  |
|           |                    |              | TFTM       | 2,811  | 1 | 0 | 1 | 117 | 3,019  | 1 | 0 | 2 | 126 | 3,038  | 1 | 0 | 2 | 127 | 1,771  | 0 | 0 | 1 | 74  |
|           |                    |              | ASYDF      | 2,513  | 1 | 0 | 1 | 105 | 2,699  | 1 | 0 | 2 | 112 | 2,716  | 1 | 0 | 2 | 113 | 1,584  | 1 | 0 | 1 | 66  |
|           | 530 mA             | 36W          | T2S        | 4,079  | 1 | 0 | 1 | 113 | 4,380  | 1 | 0 | 1 | 122 | 4,408  | 1 | 0 | 1 | 122 | 2,504  | 1 | 0 | 1 | 70  |
|           |                    |              | T2M        | 3,887  | 1 | 0 | 1 | 108 | 4,174  | 1 | 0 | 1 | 116 | 4,200  | 1 | 0 | 1 | 117 | 2,387  | 1 | 0 | 1 | 66  |
|           |                    |              | T3S        | 4,034  | 1 | 0 | 1 | 112 | 4,332  | 1 | 0 | 1 | 120 | 4,359  | 1 | 0 | 1 | 121 | 2,477  | 1 | 0 | 1 | 69  |
|           |                    |              | T3M        | 3,993  | 1 | 0 | 1 | 111 | 4,288  | 1 | 0 | 1 | 119 | 4,315  | 1 | 0 | 1 | 120 | 2,451  | 1 | 0 | 2 | 68  |
|           |                    |              | T4M        | 3,912  | 1 | 0 | 2 | 109 | 4,201  | 1 | 0 | 2 | 117 | 4,227  | 1 | 0 | 1 | 117 | 2,402  | 1 | 0 | 1 | 67  |
|           |                    |              | TFTM       | 4,066  | 1 | 0 | 1 | 113 | 4,367  | 1 | 0 | 1 | 121 | 4,394  | 1 | 0 | 1 | 122 | 2,496  | 1 | 0 | 1 | 69  |
|           |                    |              | ASYDF      | 3,635  | 1 | 0 | 2 | 101 | 3,904  | 1 | 0 | 2 | 108 | 3,928  | 1 | 0 | 2 | 109 | 2,232  | 1 | 0 | 1 | 62  |
|           | 700 mA             | 47W          | T2S        | 5,188  | 1 | 0 | 1 | 110 | 5,571  | 1 | 0 | 1 | 119 | 5,606  | 1 | 0 | 1 | 119 | 3,065  | 1 | 0 | 1 | 65  |
|           |                    |              | T2M        | 4,945  | 1 | 0 | 1 | 105 | 5,310  | 1 | 0 | 1 | 113 | 5,343  | 1 | 0 | 1 | 114 | 2,921  | 1 | 0 | 1 | 62  |
|           |                    |              | T3S        | 5,131  | 1 | 0 | 1 | 109 | 5,510  | 1 | 0 | 2 | 117 | 5,544  | 1 | 0 | 2 | 118 | 3,031  | 1 | 0 | 1 | 64  |
|           |                    |              | T3M        | 5,079  | 1 | 0 | 2 | 108 | 5,454  | 1 | 0 | 2 | 116 | 5,488  | 1 | 0 | 2 | 117 | 3,000  | 1 | 0 | 1 | 64  |
|           |                    |              | T4M        | 4,976  | 1 | 0 | 2 | 106 | 5,343  | 1 | 0 | 2 | 114 | 5,377  | 1 | 0 | 2 | 114 | 2,939  | 1 | 0 | 1 | 63  |
|           |                    |              | TFTM       | 5,172  | 1 | 0 | 2 | 110 | 5,554  | 1 | 0 | 2 | 118 | 5,589  | 1 | 0 | 2 | 119 | 3,055  | 1 | 0 | 1 | 65  |
|           |                    |              | ASYDF      | 4,624  | 1 | 0 | 2 | 98  | 4,966  | 1 | 0 | 2 | 106 | 4,997  | 1 | 0 | 2 | 106 | 2,732  | 1 | 0 | 1 | 58  |
|           | 1000 mA            | 74W          | T2S        | 7,205  | 1 | 0 | 1 | 97  | 7,736  | 1 | 0 | 1 | 105 | 7,785  | 1 | 0 | 1 | 105 | 4,429  | 1 | 0 | 1 | 61  |
|           |                    |              | T2M        | 6,866  | 1 | 0 | 2 | 93  | 7,373  | 1 | 0 | 2 | 100 | 7,419  | 1 | 0 | 2 | 100 | 4,221  | 1 | 0 | 2 | 58  |
|           |                    |              | T3S        | 7,124  | 1 | 0 | 2 | 96  | 7,650  | 1 | 0 | 2 | 103 | 7,698  | 1 | 0 | 2 | 104 | 4,380  | 1 | 0 | 2 | 60  |
|           |                    |              | T3M        | 7,052  | 1 | 0 | 2 | 95  | 7,736  | 1 | 0 | 2 | 105 | 7,620  | 1 | 0 | 2 | 103 | 4,335  | 1 | 0 | 2 | 59  |
|           |                    |              | T4M        | 6,910  | 1 | 0 | 2 | 93  | 7,420  | 1 | 0 | 2 | 100 | 7,466  | 1 | 0 | 2 | 101 | 4,248  | 1 | 0 | 2 | 58  |
|           |                    |              | TFTM       | 7,182  | 1 | 0 | 2 | 97  | 7,712  | 1 | 0 | 2 | 104 | 7,760  | 1 | 0 | 2 | 105 | 4,415  | 1 | 0 | 2 | 60  |
|           |                    |              | ASYDF      | 6,421  | 1 | 0 | 2 | 87  | 6,895  | 2 | 0 | 2 | 93  | 6,938  | 2 | 0 | 2 | 94  | 3,947  | 1 | 0 | 2 | 54  |

## 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  | 1.02             |
| 10°C    | 50°F  | 1.01             |
| 20°C    | 68°F  | 1.00             |
| 25°C    | 77°F  | 1.00             |
| 30°C    | 86°F  | 1.00             |
| 40°C    | 104°F | 0.98             |

### Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **DSXW1 LED 20C 1000** platform 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 | 0.95   | 0.93   | 0.88    |

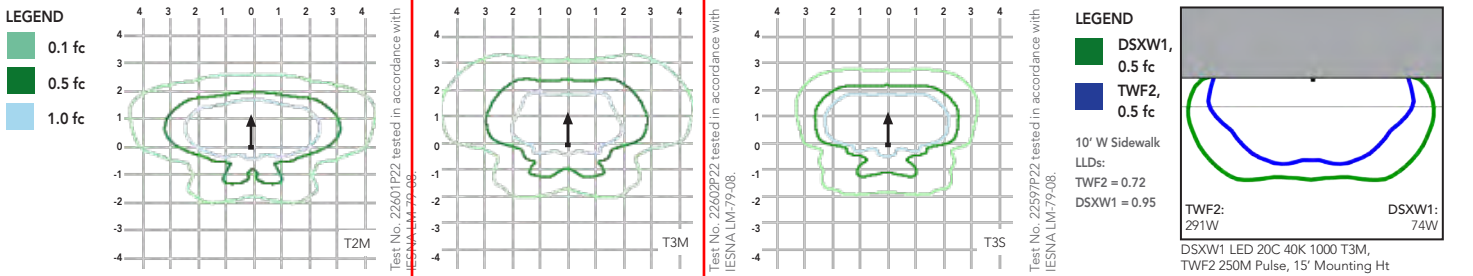
### Electrical Load

| LEDs | Drive Current (mA) | System Watts | Current (A) |      |      |      |      |      |
|------|--------------------|--------------|-------------|------|------|------|------|------|
|      |                    |              | 120V        | 208V | 240V | 277V | 347V | 480V |
| 10C  | 350                | 14 W         | 0.13        | 0.07 | 0.06 | 0.06 | -    | -    |
|      | 530                | 20 W         | 0.19        | 0.11 | 0.09 | 0.08 | -    | -    |
|      | 700                | 27 W         | 0.25        | 0.14 | 0.13 | 0.11 | -    | -    |
|      | 1000               | 40 W         | 0.37        | 0.21 | 0.19 | 0.16 | -    | -    |
| 20C  | 350                | 24 W         | 0.23        | 0.13 | 0.12 | 0.10 | -    | -    |
|      | 530                | 36 W         | 0.33        | 0.19 | 0.17 | 0.14 | -    | -    |
|      | 700                | 47 W         | 0.44        | 0.25 | 0.22 | 0.19 | 0.15 | 0.11 |
|      | 1000               | 74 W         | 0.69        | 0.40 | 0.35 | 0.30 | 0.23 | 0.17 |

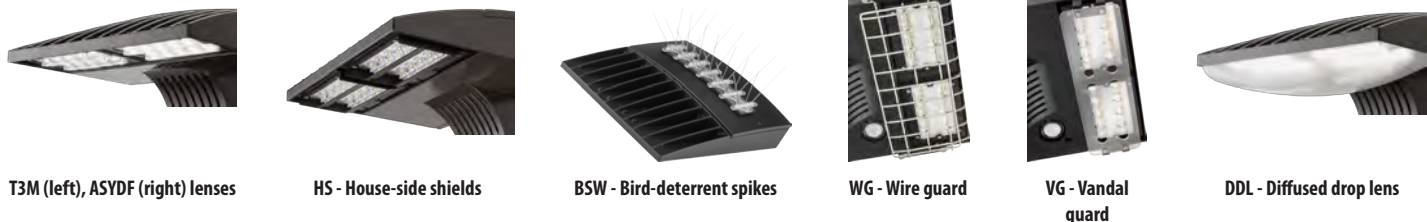
## Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [D-Series Wall Size 1 homepage](#).

Isofootcandle plots for the DSXW1 LED 20C 1000 40K. Distances are in units of mounting height (15').



## Options and Accessories



## FEATURES & SPECIFICATIONS

### INTENDED USE

The energy savings, long life and easy-to-install design of the D-Series Wall Size 1 make it the smart choice for building-mounted doorway and pathway illumination for nearly any facility.

### CONSTRUCTION

Two-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. The LED driver is mounted to the door to thermally isolate it from the light engines for low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65).

### 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 textured and non-textured finishes.

### OPTICS

Precision-molded proprietary acrylic lenses provide multiple photometric distributions tailored specifically to building mounted applications. Light engines are available in 3000 K (70 min. CRI), 4000 K (70 min. CRI) or 5000 K (70 min. CRI) configurations.

### ELECTRICAL

Light engine(s) consist of 10 high-efficacy LEDs mounted to a metal-core circuit board to maximize heat dissipation and promote long life (L88/100,000 hrs at 25°C). Class 1 electronic drivers have a

power factor >90%, THD <20%, and a minimum 2.5KV surge rating. When ordering the SPD option, a separate surge protection device is installed within the luminaire which meets a minimum Category C Low (per ANSI/IEEE C62.41.2).

### INSTALLATION

Included universal mounting bracket attaches securely to any 4" round or square outlet box for quick and easy installation. Luminaire has a slotted gasket wireway and attaches to the mounting bracket via corrosion-resistant screws.

### LISTINGS

CSA certified to U.S. and Canadian standards. Rated for -40°C minimum ambient.

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org](http://www.designlights.org) to confirm which versions are qualified.

### WARRANTY

Five-year limited warranty. Complete warranty terms located at [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx).

**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.



# W3 - Inset step light

## Recessed wall luminaire

**Housing:** Constructed of die cast and extruded aluminum with integral wiring compartment. Mounting tabs provided. Die castings are marine grade, copper free ( $\leq 0.3\%$  copper content) A360.0 aluminum alloy.

**Enclosure:** One piece die cast aluminum faceplate, 1/8" thick. Clear tempered glass with translucent white ceramic coating. Faceplate is secured by two (2) socket head, stainless steel, captive screws threaded into stainless steel inserts in the housing casting. Continuous high temperature O-ring gasket for weather tight operation.

**Electrical:** 6.7W LED luminaire, 8.5 total system watts,  $-30^{\circ}\text{C}$  start temperature. Integral 120V through 277V electronic LED driver, 0 -10V dimming. The LED and driver are mounted on a removable plate for easy replacement. Standard LED color temperature is 3000K (available in 4000K; add suffix K4). Through Wiring: Maximum four (4) No. 12 AWG conductors (plus ground) suitable for  $75^{\circ}\text{C}$ . Provided with 1/2" NPT threaded conduit entries.

**Note:** Due to the dynamic nature of LED technology, LED luminaire data on this sheet is subject to change at the discretion of BEGA-US. For the most current technical data, please refer to [www.bega-us.com](http://www.bega-us.com).

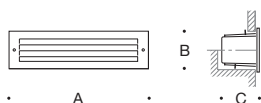
**Finish:** All BEGA standard finishes are polyester powder coat with minimum 3 mil thickness. These luminaires are available in four standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order.

**UL** listed for US and Canadian Standards, suitable for wet locations and for installation within 3 feet of ground. Type non-IC. Protection class: IP64.

### Luminaire Lumens: 10

Tested in accordance with LM-79-08

Type:  
BEGA Product:  
Project:  
Voltage:  
Color:  
Options:  
Modified:



| Lamps  |               | A     | B     | C     |
|--------|---------------|-------|-------|-------|
| 22 196 | ADA 6.7 W LED | 9 1/2 | 2 1/2 | 4 1/4 |





# W5 - Wall Mounted Downlight

Wall luminaires with directed light in one direction

**Housing:** One Piece, die cast aluminum housing with a one piece, die cast aluminum mounting plate. The mounting plate is supplied with a flat plate that mounts directly to a standard, recessed 4" octagonal wiring box. Die castings are marine grade, copper free ( $\leq 0.3\%$  copper content) A360.0 aluminum alloy.

**Enclosure:** Clear tempered glass diffuser. Provided reflector made of pure anodized aluminum. Housing is secured to the mounting plate with two (2) mechanically captive, stainless steel set screws.

**Electrical:** 6.5W LED luminaire, 8.6 total system watts,  $-30^{\circ}\text{C}$  start temperature. Integral 120V through 277V electronic LED driver, 0-10V dimming. LED module(s) are available from factory for easy replacement. Standard LED color temperature is 3000K with an 85 CRI. Available in 4000K (85 CRI); add suffix K4 to order

**Note:** Due to the dynamic nature of LED technology, LED luminaire data on this sheet is subject to change at the discretion of BEGA-US. For the most current technical data, please refer to [www.bega-us.com](http://www.bega-us.com).

**Finish:** All BEGA standard finishes are polyester powder coat with minimum 3 mil thickness. Available in four standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order.

**CSA** certified to U.S. and Canadian standards, suitable for wet locations. Protection class IP64

**Weight:** 3.5 lbs.

**Luminaire Lumens:** 173

Tested in accordance with LM-79-08



|       |                              |       |       |   |
|-------|------------------------------|-------|-------|---|
|       | One-sided light distribution |       |       |   |
|       | Lamp                         | A     | B     | C |
| 33580 | 6.5W LED                     | 4 3/8 | 7 1/2 | 5 |