

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: 801 Badger Road

Title: Madison College - South Campus

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

UDC meeting date requested December 6, 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 Kirk Keller Company Plunkett Raysich Architects, LLP

Street address 2310 Crossroads Dr., #2000 City/State/Zip Madison, WI 53718

Telephone 608-478-4013 Email kkeller@prarch.com

Project contact person Kirk Keller Company Plunkett Raysich Architects, LLP

Street address 2310 Crossroads Dr., #2000 City/State/Zip Madison, WI 53718

Telephone 608-478-4013 Email kkeller@prarch.com

Property owner (if not applicant) Michael Stark for Madison College

Street address 1701 Wright Street City/State/Zip Madison, WI 53704-2599

Telephone 608-246-6737 Email mmstark@madisoncollege.edu

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. (Signage will be submitted at a later date)
- ☒ Development plans (Refer to checklist provided below for plan details)
- ☒ Filing fee (Previously submitted)
- ☒ 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. 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 Natalie Erdman, Janine Glaeser, Matt Tucker & Chris Wells on Multiple Meetings.
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 Kirk Keller

Relationship to property Architect

Authorized signature of Property Owner

Date November 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). (Previously Submitted)
- ☐ 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) (Previously Submitted)
- ☐ 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 an Urban Design District, a summary of how the development proposal addresses the district criteria is required)
- ☒ Contextual site information, including photographs and layout of adjacent buildings/structures
- ☒ Site Plan
- ☒ Two-dimensional (2D) images of proposed buildings or structures.

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

Requirements for All Plan Sheets

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

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

2. Initial Approval

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

UDC District 7 - LOI

URBAN DESIGN COMMISSION MEMBERS, This letter provides specific sections of the Urban Design District No.7 text as it applies to the proposed Madison College – South Campus. Specific portions of the zoning text Sec. 33.24(14) are copied below. Design comments are provided following each section in italic text.

(14) Urban Design District No. 7.

- a. Statement of Purpose. The purpose of these design requirements and guidelines is to provide clear direction for how property owners can make improvements to their properties to collectively improve the visual character and safety of Park Street. When applied, they will ensure against fragmented or incompatible development and will help prevent the negative visual and functional impacts of uncoordinated design decisions.

(14) (a) The Madison College - South Campus project will serve as a new anchor facility located at the southern end of Park Street at the entrance to the South Beltline Highway.

- b. Property Included in the District. The District shall include all properties having any frontage on South Park Street between the West Beltline Highway on the south and Regent Street on the north.

(b) The property for redevelopment is currently occupied by the State ETF Building. Located at the southern end of UDC District 7. The new facility will result in a building being built closer to the corner of Badger Road and the South Beltline access from Park Street. Parking will be located on the back side, southerly, side of the new facility.

- d. Basis for Design Review. In reviewing plans for development in the District, the Urban Design Commission shall consider the following requirements and guidelines as may be appropriate. The development shall meet the requirements and conform as much as possible to the guidelines. Both the requirements and guidelines apply to new construction, renovations, additions, and exterior alterations unless stated otherwise for a specific item.

(d) The proposed project is a new facility replacing the existing ETF Building. The project intent is to meet the spirit of UDC District 7 requirements while also meeting the needs of a commuter campus educational facility.

1. Building Setbacks and Orientation.

a. Requirements

- i. New buildings shall have a setback between one (1) to ten (10) feet from the front property line. Where new buildings are designed for existing block faces the building setback shall be consistent with adjoining buildings but shall not exceed ten (10) feet.

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(d) 1. a. i. The proposed building is moved much closer to the corner of Badger Road and the Park Street access to the South Beltline in comparison to the existing ETF building. This 'at the end' of Park Street project does not meet the setback requirements of the more urban areas along the central Park Street area; but, the building is sited closer to the street while allowing for both expansion and emergency/fire safety access. Outdoor seating and gathering is also provided between the building and the front property line to bring life and interest to the street edge.

- ii. In special cases, such as gas stations, setbacks can exceed ten (10) feet with provisions for walkways and landscaping that make these uses more attractive and inviting.

(d) 1. a. ii. While not a gas station, the proposed facility does serve a commuter/car orientated client community and the need to provide multi-sided access to a facility.

b. Guidelines

- i. The front yard setback should be designed to provide for amenities that will enhance the visual and pedestrian character of the street.

(d) 1. b. i. The façade facing the South Beltline access road from Park Street serves as a highly visible portion of the façade. The remaining three sides of the building are well developed as entries, screened service areas, bike parking and vehicle circulation lanes.

- iii. Walkways should be provided to connect the building entrance to the public sidewalk.

(d) 1. b. iii. New direct pedestrian and bike connections will be developed from the corner of Badger Road and Park Street. This new connection is proposed to both serve this new facility and the Badger Road area.

- iv. The front facade of the building and the primary entrance should face the primary street.

(d) 1. b. iii. New direct pedestrian and bike connections will be development from the corner of Badger Road and Park Street. This new connection is proposed to both serve this new facility and the Badger Road area.

2. Building Massing and Articulation.

a. Requirements

- i. All visible sides of the building shall be designed with details that complement the front facade. Side facades that are visible from the primary street shall receive complementary design attention.

(d) 2. a. i. All sides of the building are developed to the same design level. The palette of materials utilized at the Madison College – Truax Campus is emulated for this new facility; incorporating limestone, glass, metal panel, and brick.

- ii. Blank building walls with little detail or variety along primary facades shall be avoided. Improvements to these buildings shall include details at the street level to create a more comfortable pedestrian scale and character.

(d) 2. a. ii. No 'blank' façade walls are proposed. The use of limestone, glass and metal framing are the main elements used throughout. Canopies are implemented to create a more comfortable pedestrian scale.

- iii. Architectural details at the ground floor shall be provided to enhance the pedestrian character of the street. Details shall include window and door trim, recessed entries, awnings, and/or other features.

(d) 2. a. iii. The use of limestone, glass and metal framing are the main elements used at the pedestrian level. Major entry points are located under canopies, or are recessed into the building form.

- iv. Mechanical equipment shall be screened from view by using screen designs that are architecturally integrated with the building design.

(d) 2. a. iv. All mechanical equipment is screened.

b. Guidelines

- i. "Green" building design that promotes energy efficiency is encouraged.

(d) 2. b. i. Photovoltaic panels are being studied for the roof as a major 'green' element for this building.

- ii. For large buildings, variation to the building face design should be provided through the use of materials and color, and/or by dividing the building into bays to break up large facades to create pedestrian interest at the street level. This is particularly important for existing large industrial and commercial buildings on Park Street.

(d) 2. b. ii The use of the Madison College 'standard' building palette combine with articulating major sections of the building serve to break up any large section of façade.

- iv. Flat roofs are preferred for new mixed-use and commercial buildings.

(d) 2. b. iv. The majority of the roof is a 'flat' roof with a section of the roof facing Badger Road and Park Street angled up to better frame a main entry and indicate prominence.

- v. A positive visual termination at the top of the building should be provided.

- viii. Buildings should be designed as creations of their own time. Copying historic appearance and details is discouraged.

(d) 2. b. v. The majority of the roof is a 'flat' roof with a section of the roof facing Badger Road and Park Street angled up to better frame a main entry and indicate prominence.

- vii. Buildings should be designed as creations of their own time. Copying historic appearance and details is discouraged.

(d) 2. b. vii. A current palette of materials is used and no copying of a historical style is intended.

- xi. Creative architectural designs and details are encouraged so long as designs do not conflict or draw attention away from other buildings in the block.

(d) 2. b. xi. This building does not draw attention to, or away, from other buildings as it will always stand separate from other structures in this design district.

3. Building Height.

a. Requirements.

- i. New buildings shall be at least two (2) stories in height, except as provided in Par. 10, 11, 12 or 13 or in the guidelines below.

(d) 3. a. i. The proposed building is a 'tall' two stories in height to a three level building at walk-out locations.

4. Windows and Entrances.

a. Requirements.

ii. Office buildings and other non-retail buildings should have at least forty (40) percent of the street wall devoted to windows.

(d) 4. a. ii. Exterior glazing will meet this requirement.

iii. Windows on the ground floor shall be transparent, and not be darkly tinted, colored or have a mirrored finish.

(d) 4. a. ii. Windows will not be darkly tinted.

b. Guidelines.

i. Building entrances should be designed as the focal point of the front facade.

(d) 4. b. i. Building entrances are designed as focal points to the facades with direct sidewalk access.

ii. Entrances to new buildings or additions located close to the sidewalk should include recessed entries to allow for pedestrian movement.

(d) 4. b. ii. Entries are either recessed or under covered entry points.

5. Materials and Colors.

a. Requirements.

i. Exterior materials shall be durable, high-quality materials and appropriate for external use.

(d) 5. a. i. Only durable, high-quality materials appropriate for an educational facility are being proposed.

b. Guidelines

i. Brick, stone and terra cotta are preferred primary materials for new buildings or additions.

(d) 5. b. i. Only durable materials are proposed.

iii. Color choice should complement the style and materials of the building's facade and provide a pleasing relationship with adjoining buildings.

(d) 5. b. iii. The proposed building stands separate from all other building in this district both in form and in function.

6. Signage.

a. Guidelines.

- i. Preferred sign types include building mounted signs, window signs, projecting signs, and awning signs.

(d) 6. a. i. Signage will be wall mounted.

- vii. Internally illuminated signs displaying illuminated copy should be designed so that when illuminated, the sign appears to have light-colored copy on a dark or non-illuminated background.

(d) 6. a. vii. Signage will be internally illuminated.

- viii. Individually mounted backlit letters are an encouraged form of signage.

(d) 6. a. viii. Signage will consist of individual letters.

7. Parking and Service Areas.

a. Requirements.

- i. Off-street parking facilities for new buildings shall be located behind or on the sides of the building and be at least ten (10) feet from the front property line.

(d) 7. a. i. Parking setback from the property line will vary per location in order to meet the need for 250 car stalls.

- ii. At least one (1) tree island, planted with a tree and sized and landscaped pursuant to the Zoning Ordinance, shall be provided per twelve (12) parking spaces provided. This requirement is in addition to any other landscaping requirements of the Zoning Ordinance.

(d) 7. a. ii. Up to 12 car stalls will be designed between tree islands.

- iii. All trash areas shall be screened from public view.

(d) 7. a. iii. At this time trash holding areas are planned to be within the building.

b. Guidelines.

- ii. All parking areas should be well landscaped and appropriately lighted.

(d) 7. b. ii A full landscape plan as prepared by a licensed Landscape Architect will be developed. A full lighting plan as prepared by a lighting engineer will be prepared.

iii. All parking areas should include walkways to allow safe pedestrian access to the building entrance.

(d) 7. b. iii. All walkways from public transit, cars, bikes or pedestrian access is served by paved walkways.

v. Driveways along Park Street should be minimized to improve traffic flow and reduce pedestrian conflicts.

(d) 7. b. v. No driveways are proposed to Park Street

c. Pedestrian areas and customer parking areas should be separated from loading, service, and drive through areas.

i. If possible, trash areas should be located inside buildings.

(d) 7. c. i. Pedestrian walkways are separated from a screened two vehicle service dock. Trash is proposed to be held for removal from inside the building.

8. Landscaping and Open Space.

a. Guidelines.

iv. The use of rain gardens and bio-retention basins to collect runoff and filter pollutants is encouraged, where practical.

(d) 8. a. iv. Bio-retention areas and complete development open spaces is a part of the scope of this project.

v. Landscape islands, open spaces and porous pavements should be provided, where practical, for additional storm water infiltration.

(d) 8. a. v. The use of landscape islands and developed open spaces for students are within the scope of the project.

9. Site Lighting and Furnishings.

a. Requirements.

i. Full cut-off light fixtures shall be used to illuminate the site.

(d) 9. a. i. Full cut-off light fixtures shall be specified.

b. Guidelines.

- i. Pedestrian use areas should be adequately, but not excessively lit. Low-level building and landscape accent lighting is encouraged, where appropriate.

(d) 9. b. i. Low level accent lighting leading to main entry points will be developed.

- ii. Lighting and site furnishings (benches, trash receptacles, bicycle racks, etc.) should be designed to complement the character of the building and provide a pleasing relationship with adjoining properties and the public sidewalk.

(d) 9. b. ii. The site will be fully developed with complementing furniture for all the uses listed.

- iii. Bicycle storage facilities should be located near the building entrance.

(d) 9. b. iii. Bike racks will be designed per City of Madison requirements for quantity, styles and physical spacing.

- iv. Decorative, colored paving is encouraged for walkways and outdoor use areas.

(d) 9. b. iv. The use of decorative, colored paving has not been determined as a proper design element for this project.

MADISON AREA TECHNICAL COLLEGE
Plan Development Text #1

DATE: September 6, 2017

TOPIC: Construct a new South Campus Building
801 West Badger Road, Madison, WI

ISSUE: The need for a new comprehensive campus on the south side of Madison has been identified in both the September 2016 and 2017 Three-Year Facilities Plans. This new campus will provide academic and student services to the underserved residents in the surrounding neighborhoods and areas beyond.

The college has requested authority to purchase a property owned by the State of Wisconsin at 801 West Badger Road. The existing building on the site was constructed in 1957. Given the age and condition of the facility and the need for extensive rehabilitation or demolition, the appraised value (and purchase price) of \$2.8M is essentially the value of the land. Our recommendation is to demolish the building and construct a new building on the site to better meet our academic and student service needs in a more cost effective manner. This will also allow for a more efficient use of the site orientation, as well as maximize the number of parking spaces.

We are planning on constructing a new building of up to approximately 45,000 gross square feet that will accommodate general classrooms, computer labs and specialized labs for physical science, anatomy and physiology, chemistry and biology. In addition, the building will accommodate labs for the medical assistant program, nursing assistant program and early childhood instruction. A small café space along with a bookstore, library and space for student services will also be located in the building.

Total construction costs, including site-work, a contingency and all soft costs, are estimated not to exceed \$13M. The college has been awarded an \$8.5M gift from the Irwin A. & Robert D. Goodman Foundation and is actively pursuing additional gifts for up to \$3M. These gifts, of up to \$11.5M, and a \$1.5M borrow for new construction will fund the project.

Additionally, the building will also be designed to ultimately be increased up to a total of 75,000 gross square feet at a future date. The building orientation and site will be designed to accommodate this potential future expansion.

ACTION:

1. Approve demolition and construction of a new South Madison Campus building at 801 West Badger Road in Madison
2. Authorize staff to prepare construction drawings and detailed specifications to send this project out for competitive bid.
3. Authorize staff to submit a Request for Concept Review and a Request for Final Approval to the Wisconsin Technical College System Board for their approval to construct this new building and all associated sitework.

MADISON AREA TECHNICAL COLLEGE
Plan Development Text #2

DATE: September 6, 2017

TOPIC: Purchase the Employee Trust Funds Property and Building
801 West Badger Road, Madison, WI

ISSUE: The September 2016 and 2017 Three-Year Facilities Plans both identify the need for a new comprehensive campus on the south side of Madison. This new campus will provide academic and student services to the underserved residents in the surrounding neighborhoods and areas beyond.

The college has carefully studied multiple alternative sites in the south Madison area that could be purchased and developed into a comprehensive campus. Finding a property in close proximity to bus service and also allowing enough acreage for future building expansion and adequate parking was challenging. However, we were able to find a property that meets all of our criteria at 801 West Badger Road. This site in the City of Madison is on the corner of Park Street and West Badger Road. It is directly adjacent to the South Madison Bus Transfer Station and is a few hundred yards from the college's current access point in Villager Mall.

The site is approximately 4.35 acres and includes an office building that was constructed in 1957. The college has negotiated a sale price for the property of \$2.8M, which matches the amount of the appraisal provided by the current owner of the property, which is the State of Wisconsin. The state agency that currently occupies the building (the Employee Trust Funds) will be moving to a new location in spring of 2018. Once the building is vacated, ownership will be transferred to CG Hill Farms, LLC. The College will be purchasing the property from this entity immediately thereafter.

The source of funding for this purchase will be a \$1.5M gift from the Irwin A. & Robert D. Goodman Foundation and a \$1.3M gift from American Family Insurance.

ACTION:

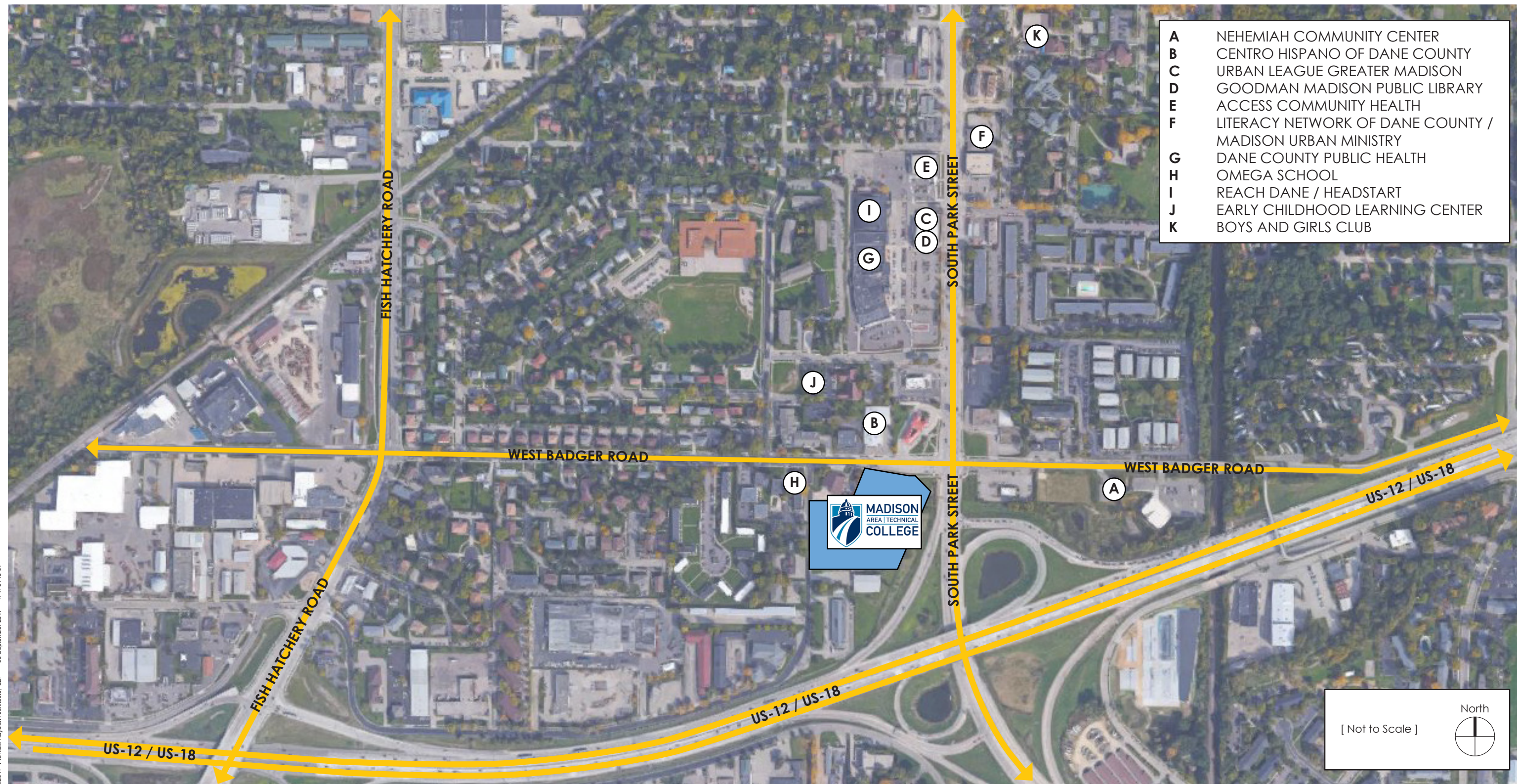
1. Approve the purchase of the State of Wisconsin property located at 801 West Badger Road in Madison, contingent upon approval by the Wisconsin Technical College System Board.
2. Authorize staff to submit a request to the Wisconsin Technical College System Board for approval to purchase this property.



Madison College - South Campus UDC Informational Submittal

December 6, 2017







Burger King



Comstock Tires



Villager Mall



Madison Metro South Transfer



Madison Fire Station #6



Nehemiah Community Center



Residential - Perry Street



Leisure Concepts



Madison College - South Campus - Madison, WI



View from Hwy-12 West on-ramp



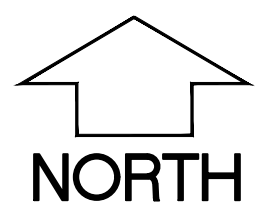
View from South Park Street




View from intersection of South Park Street and West Badger Road



View from West Badger Road



| | |
|---------------|---|
| Graphic Scale |  |
| Wyser Number | 17-0407 |
| Set Type | UDC |
| Date Issued | 11/21/2017 |
| Sheet Number | C100 |

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TECHNICAL STANDARD 1056

TYPE D INLET PROTECTION PER WDNR TECHNICAL STANDARD 1056
TYP. TWO INLETS LOCATED WADBADGER ROAD CURB LINE LO
JUST EAST OF SURVEY LIMITS
INSTALL AT ANY LOCATION W
CONSTRUCTION RUNOFF DRA
INTO THE STORM SEWER SYS

BIORETENTION

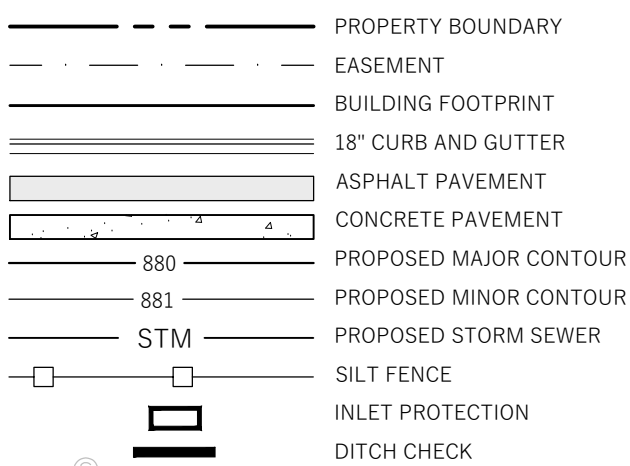
BOTTOM OF THE BIORETENTION BASIN

UNDERGROUND STORAGE

BIORETENTION

PLACE RIPRAP OR CLASS III TURF
REINFORCEMENT MATTING FROM
THE STORM OUTLET TO THE
BOTTOM OF THE BIORETENTION
BASIN

LEGEND (PROPOSED)



NORTH

GENERAL NOTES

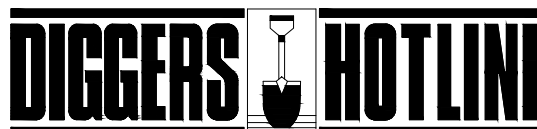
1. UNDERLYING SITE CONTOURS AND INFORMATION BASED ON TOPOGRAPHIC & UTILITY DATA AS SURVEYED BY WYSER ENGINEERING ON SEPTEMBER 8, 2017. WYSER ENGINEERING SHALL NOT BE HELD RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY ARISE AS A RESULT OF ERRONEOUS OR INCOMPLETE INFORMATION PROVIDED BY OTHERS. CONTRACTOR TO CONFIRM ALL ELEVATIONS, GENERAL DRAINAGE AND EARTHWORK REQUIREMENTS PRIOR TO CONSTRUCTION.
2. THE BENCHMARK LOCATIONS ARE SHOWN FOR REFERENCE ONLY ON THIS PLAN. THE BENCHMARKS SHALL BE VALIDATED BY LICENSED LAND SURVEYOR PRIOR TO CONSTRUCTION. CONTRACTOR ASSUMES RISK ASSOCIATED WITH BENCHMARK ELEVATIONS UNTIL CONFIRMED.
3. CONTRACTOR TO OBTAIN APPROPRIATE PERMITS FOR STREET OPENINGS & TO WORK WITHIN THE CITY'S LAND IF REQUIRED.
4. WYSER ENGINEERING SHALL BE HELD HARMLESS AND DOES NOT WARRANT ANY DEVIATIONS BY THE OWNER OR CONTRACTOR FROM THE APPROVED CONSTRUCTION PLANS THAT MAY RESULT IN DISCIPLINARY ACTIONS BY REGULATORY AGENCIES.
5. IF ANY ERRORS, DISCREPANCIES, OR OMISSIONS WITHIN THE PLAN BECOME APPARENT, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.
6. ALL MUNICIPAL UTILITY CONNECTIONS, WORK IN ROW, PUBLIC OUTLOTS AND PUBLIC EASEMENTS SHALL BE IN ACCORDANCE WITH CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

CONSTRUCTION SITE EROSION CONTROL REQUIREMENTS

1. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE CURRENT WISCONSIN DEPARTMENT OF NATURAL RESOURCES (WDNR) EROSION AND SEDIMENT CONTROL TECHNICAL STANDARDS (dnr.wi.gov).
2. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO SITE DISTURBANCE.
3. ENGINEER / CITY OF MADISON / WDNR HAS THE RIGHT TO REQUIRE CONTRACTOR TO IMPLEMENT ADDITIONAL EROSION CONTROL MEASURES AS NECESSARY. CONTRACTOR MUST NOTIFY THE CITY OF MADISON BUILDING INSPECTOR TWO (2) WORKING DAYS IN ADVANCE OF ANY SOIL DISTURBANCE ACTIVITIES.
4. EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE INSPECTED ONCE PER WEEK AND FOLLOWING EACH RAINFALL EVENT. INSPECTION REPORTING SHALL BE IN ACCORDANCE WITH MUNICIPAL REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES IN WORKING ORDER. EROSION CONTROL MEASURES SHALL BE REMOVED ONLY AFTER SITE CONSTRUCTION IS COMPLETE WITH ALL SOIL SURFACES HAVING AN ESTABLISHED VEGETATIVE COVER.
6. DEWATERING PRACTICES SHALL COMPLY WITH TECHNICAL STANDARD 1061.
7. DUST CONTROL SHALL BE MITIGATED IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1068.
8. ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED IMMEDIATELY FOLLOWING FINAL GRADING ACTIVITIES.
9. SEED MIX AND RATE SHALL BE, AT A MINIMUM, IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1059.
10. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL PROVIDE VEGETATION PLAN FOR ENGINEER / OWNER APPROVAL. VEGETATION PLAN AND BIOTRENTENAL INSTALLATION SHALL BE IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1004.
11. CONTRACTOR TO PROVIDE SOLID LID OR METAL PLATE ON ALL OPEN MANHOLES DURING CONSTRUCTION TO MINIMIZE SEDIMENT FROM ENTERING THE STORM SEWER SYSTEM.
12. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A COPY OF THE MUNICIPAL EROSION CONTROL PERMIT AND WDNR NOI AND FOLLOWING ALL APPLICABLE REQUIREMENTS.

GRADING, SEEDING & RESTORATION NOTES

1. ALL GRADES SHOWN ARE FINAL FINISHED SURFACE GRADES.
2. AREAS TO BE SEEDED SHALL HAVE A MINIMUM 6 INCHES TOPSOIL UNLESS OTHERWISE NOTED.
3. RESTORATION SHALL OCCUR AS SOON AS PRACTICABLE AFTER THE DISTURBANCE, WITHIN 7 DAYS OF TOPSOILING.
4. AREAS NOT RESTORED WITH EROSION MATTING OR OTHER STABILIZATION MEASURES SHALL BE STABILIZED WITH MULCH.
5. APPLY ANIONIC POLYMER TO DISTURBED AREAS IF EROSION BECOMES PROBLEMATIC.
6. INSTALL EROSION CONTROLS ON THE DOWNSTREAM SIDE OF STOCKPILES AND PROVIDE TEMPORARY SEEDING ON STOCKPILES WHICH ARE TO REMAIN IN PLACE FOR MORE THAN 7 DAYS.
7. CONTRACTOR SHALL CHISEL-PILE OR DEEP TILL WITH DOUBLE TINES THE STORMWATER MANAGEMENT FACILITY JUST PRIOR TO SEEDING AND MULCHING TO PROMOTE INFILTRATION.
8. CONTRACTOR TO DEEP TILL ALL COMPACTED PERVIOUS SURFACES PRIOR TO SEEDING AND MULCHING.
9. MULCH SHALL BE WEED-FREE STRAW AND SHALL BE INSTALLED AT THE RATE OF 2 TONS PER ACRE PER SECTION 627 OF "STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION" (WISDOT 2014)
10. PERMANENT SEEDING SHALL NOT OCCUR BETWEEN SEPTEMBER 15TH AND APRIL 15TH. ALTERNATE SEEDING/PLANTING METHODS AND/OR EROSION PROTECTION MAY BE NECESSARY FOR SEEDING/PLANTING THAT OCCURS DURING THAT TIME. COORDINATE WITH THE OWNER AS NECESSARY.
11. TEMPORARY STABILIZATION SHALL CONSIST OF ONE OR MORE OF THE FOLLOWING OPTIONS:
 - a. TEMPORARY SEEDING CONSISTING OF ANNUAL RYE GRASS APPLIED AT A RATE OF 1.5 LB. PER 1000 SQUARE FEET.
 - b. WISDOT PAL CLASS I TYPE B URBAN EROSION CONTROL MAT.
12. ALL SLOPES EXCEEDING 5:1 SHALL USE PRESCRIPTIVE COMPLIANCE INCLUDING SLOPE CLASSIFICATION PER WDNR TECH. STD. 1071, SOIL STABILIZATION (PERMANENT SEEDING AND INTERRUPT I, TYPE B) EROSION MATTING ON SLOPES OR CLASS II, TYPE B MATTING IN DRAINAGE SWALES) AND LIMITING THE MAX PERIOD OF BARE SOIL TO 60 DAYS FOR LAND DISTURBANCE BETWEEN SEPTEMBER 15 AND MAY AND 30 DAYS FOR LAND DISTURBANCE BETWEEN MAY 2 AND SEPTEMBER 15.



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Sheet Title: GRADING & EROSION CONTROL PLAN

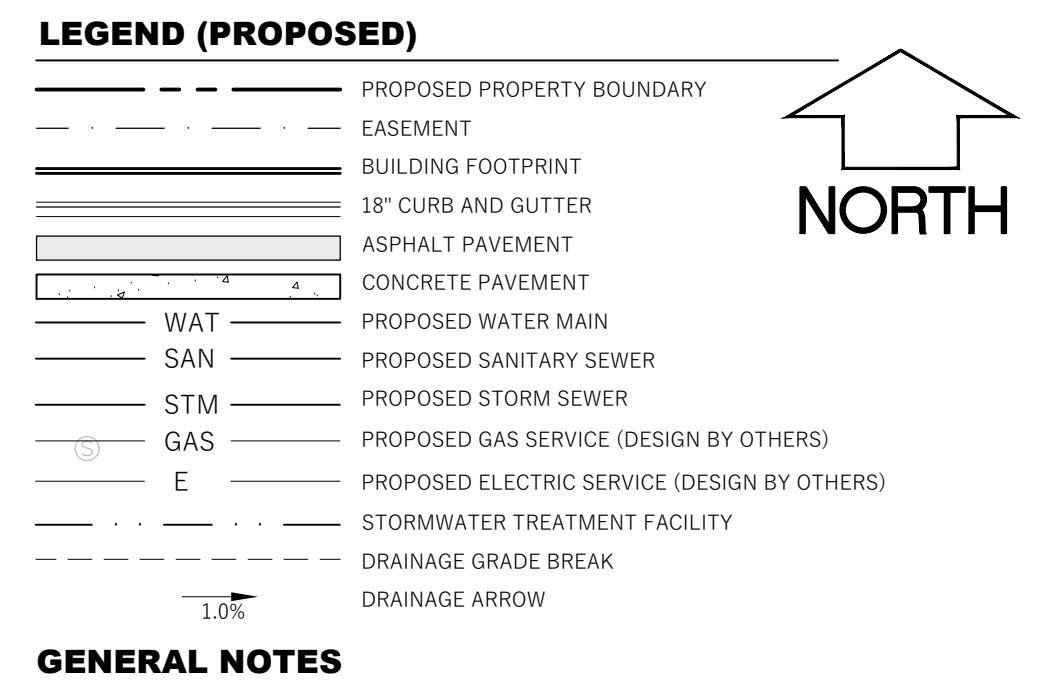
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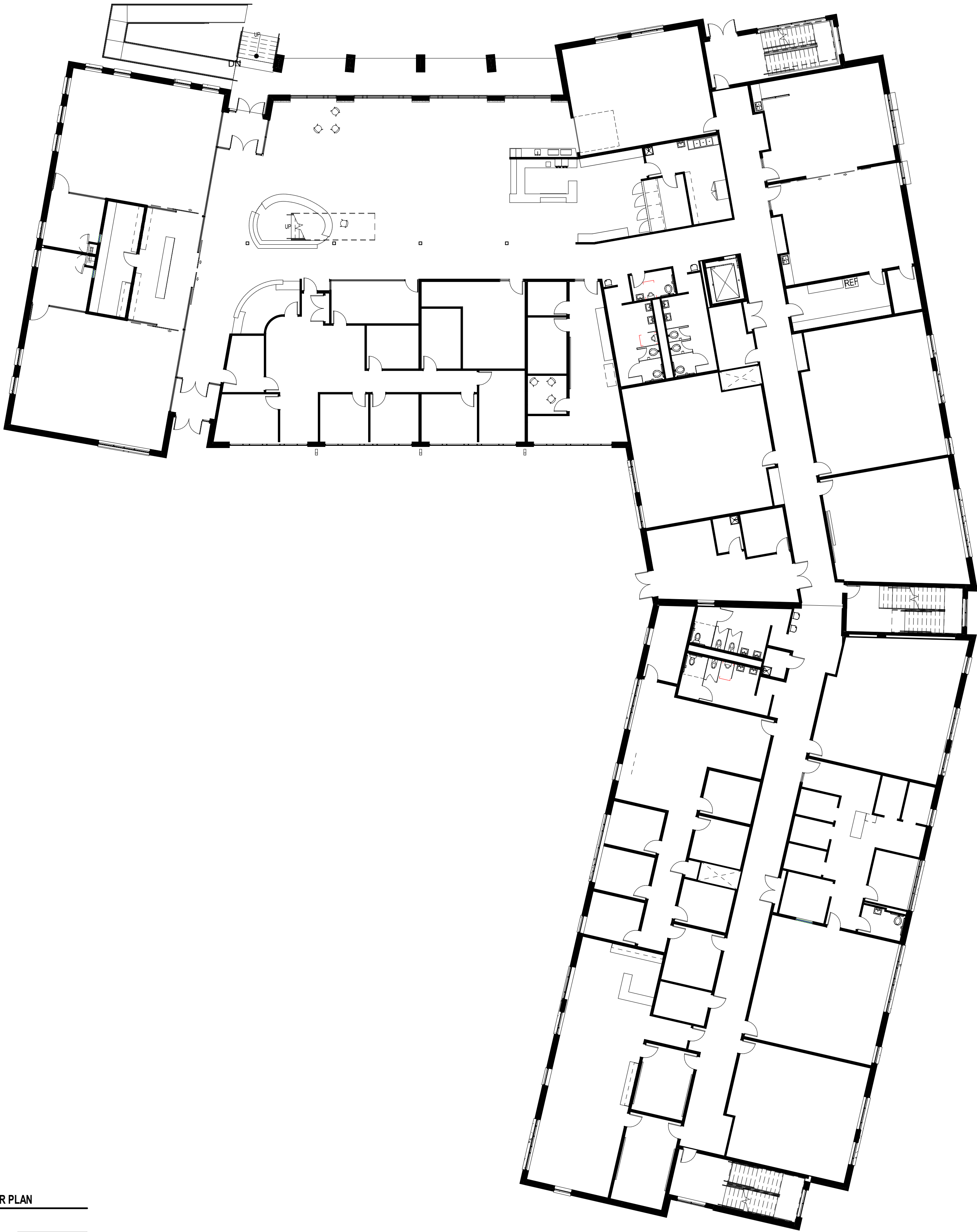
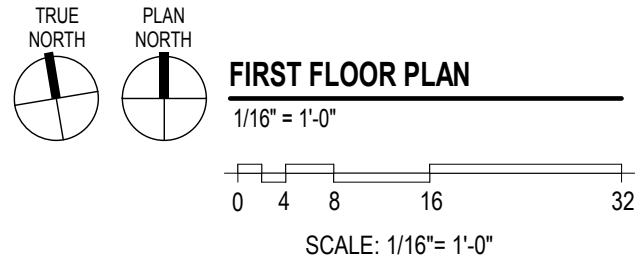


- ## GENERAL NOTES
1. UNDERLYING SITE CONTOURS AND INFORMATION BASED ON TOPOGRAPHIC & UTILITY DATA AS SURVEYED BY WYSER ENGINEERING ON SEPTEMBER 8, 2017. WYSER ENGINEERING SHALL NOT BE HELD RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY ARISE AS A RESULT OF ERRONEOUS OR INCOMPLETE INFORMATION PROVIDED BY OTHERS. CONTRACTOR TO CONFIRM ALL ELEVATIONS, GENERAL DRAINAGE AND EARTHWORK REQUIREMENTS PRIOR TO CONSTRUCTION.
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 3. CONTRACTOR TO OBTAIN APPROPRIATE PERMITS FOR STREET OPENINGS & TO WORK WITHIN THE CITY'S LAND IF REQUIRED.
 4. WYSER ENGINEERING SHALL BE HELD HARMLESS AND DOES NOT WARRANT ANY DEVIATIONS BY THE OWNER OR CONTRACTOR FROM THE APPROVED CONSTRUCTION PLANS THAT MAY RESULT IN DISCIPLINARY ACTIONS BY REGULATORY AGENCIES.
 5. IF ANY ERRORS, DISCREPANCIES, OR OMISSIONS WITHIN THE PLAN BECOME APPARENT, IT SHALL BE THE RESPONSIBILITY OF THE ENGINEER PRIOR TO CONSTRUCTION SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.
 6. ALL MUNICIPAL UTILITY CONNECTIONS, WORK IN ROW, PUBLIC OUTLOTS AND PUBLIC EASEMENTS SHALL BE IN ACCORDANCE WITH CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

UTILITY NOTES

1. DIMENSIONS TAKE PRECEDENCE OVER SCALE. CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD.
2. LENGTHS OF ALL UTILITIES ARE TO CENTER OF STRUCTURES OR FITTINGS AND MAY VARY SLIGHTLY FROM PLAN. LENGTHS SHALL BE VERIFIED IN THE FIELD DURING CONSTRUCTION.
3. CONTRACTOR SHALL VERIFY ALL ELEVATIONS, LOCATIONS, AND SIZES OF SANITARY, WATER AND STORM LATERALS AND CHECK ALL UTILITY CROSSINGS FOR CONFLICTS.
4. THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH ENGINEERING PLANS DESIGNED TO MEET ORDINANCES AND REQUIREMENTS OF THE MUNICIPALITY AND WISDOT, WISDOTS, AND WODNR.
5. PRIOR TO CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR:
 - EXAMINING ALL SITES CONDITIONS RELATIVE TO THE CONDITIONS INDICATED ON THE ENGINEERING DRAWINGS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER AND RESOLVED PRIOR TO THE START OF CONSTRUCTION.
 - OBTAINING ALL PERMITS INCLUDING PERMIT COSTS, TAP FEES, METER DEPOSITS, BONDS, AND ALL OTHER FEES REQUIRED FOR PROPOSED WORK TO OBTAIN OCCUPANCY.
 - VERIFYING UTILITY ELEVATIONS AND NOTIFYING ENGINEER OF ANY DISCREPANCY. NO WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS RESOLVED.
 - NOTIFYING ALL UTILITIES PRIOR TO THE INSTALLATION OF ANY UNDERGROUND IMPROVEMENTS.
 - NOTIFYING THE DESIGN ENGINEER AND MUNICIPALITY 48 HOURS PRIOR TO THE START OF CONSTRUCTION TO ARRANGE FOR APPROPRIATE CONSTRUCTION OBSERVATION.
9. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE ENGINEER WITH AS-BUILT CONDITIONS OF THE DESIGNATED IMPROVEMENTS IN ORDER THAT THE APPROPRIATE DRAWINGS CAN BE PREPARED, IF REQUIRED. ANY CHANGES TO THE DRAWINGS OR ADDITIONAL ITEMS MUST BE REPORTED TO THE ENGINEER AS WORK PROGRESSES.
10. ANY SANITARY SEWER, SANITARY SEWER SERVICES, WATER MAIN, WATER SERVICES, STORM SEWER, OR OTHER UTILITIES, WHICH ARE DAMAGED BY THE CONTRACTORS, SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE. NO BLASTING IS ALLOWED WITHIN 30 FEET OF EXISTING UTILITIES.
11. ALL PRIVATE INTERCEPTOR, WATER MAIN AND WATER SERVICES SHALL BE INSTALLED WITH A 6" MINIMUM BURST. PROVIDE INSULATION ABOVE PIPES WITH LESS THAN 5' OF GROUND COVER.
12. GRANULAR BACKFILL MATERIALS ARE REQUIRED IN ALL UTILITY TRENCHES UNDER SIDEWALKS AND PROPOSED PAVED AREAS (UNLESS OTHERWISE SPECIFIED BY A GEOTECHNICAL ENGINEER). ALL UTILITY TRENCH BACKFILL SHALL BE COMPACTED PER SPECIFICATIONS. ALL PAVEMENT PATCHING SHALL COMPLY WITH THE CITY OF MADISON STANDARD SPECIFICATIONS. ADDITIONAL PAVEMENT MILLING AND OVERLAY MAY BE REQUIRED BY PERMIT.
13. CONTRACTOR SHALL NOTIFY THE MUNICIPAL PUBLIC WORKS DEPARTMENT A MINIMUM OF 48 HOURS BEFORE CONNECTING TO PUBLIC UTILITIES.
14. ALL NON-METALLIC BUILDING SEWER AND WATER SERVICES MUST BE ACCOMPANIED BY MEANS OF LOCATING UNDERGROUND PIPE. TRACER WIRE VALVE BOXES SHALL BE INSTALLED ON ALL LATERALS AND AS INDICATED ON THESE PLANS.
15. ALL EXTERIOR CLEANOUTS SHALL BE PROVIDED WITH A FROST SLEEVE IN ACCORDANCE WITH SPS 382.34(5)(a/b) AND SPS 384.30(2)(c).
16. ALL PRIVATE SANITARY BUILDING SEWER PIPE AND TUBING SHALL CONFORM TO SPS 384.30-3.
17. ALL PRIVATE STORM BUILDING PIPE AND TUBING SHALL CONFORM TO SPS 384.30-6.
18. ALL PRIVATE PIPE AND TUBING FOR WATER SERVICE SHALL CONFORM TO SPS 384.30-7.
19. ALL PRIVATE PIPE SHALL BE INSTALLED PER SPS 384.40-8 INCLUDING AT LEAST 8' OF HORIZONTAL DISTANCE BETWEEN WATER PIPING AND SANITARY SEWER FROM CENTER OF PIPE TO CENTER OF PIPE AND 6' OF SEPARATION BETWEEN STORM SEWER AND WATER PIPING.
20. THE CONTRACTOR SHALL ALLOW 10 WORKING DAYS FOR THE CONSTRUCTION OF GAS MAINS WHEN SCHEDULING THE WORK AND SHALL NOT RESTRICT ACCESS TO THE GAS MAIN CONTRACTOR OR OTHER UTILITY COMPANIES.
21. INLET CASTINGS SHALL BE SET TO GRADE PRIOR TO AND SEPARATE FROM THE POURING OF THE CONCRETE CURB AND GUTTER. IS IS REQUIRED THAT THREE FEET OF CONCRETE CURB AND GUTTER ON EACH SIDE OF THE INLET SHALL BE POURED BY HAND, NOT THROUGH THE USE OF A CURB MACHINE. THE INLET CASTING SHALL BE SET TO GRADE ON A BED OF MORTAR WHICH SHALL BE A MINIMUM OF TWO INCHES THICK. THE INLET SHALL BE PLACED ON THE MORTAR BED AND SHALL BE ADJUSTED TO GRADE BY APPLYING DIRECT PRESSURE TO THE CASTING. ONCE THE CASTING ADJUSTMENT IS COMPLETE, THREE FEET OF CURB AND GUTTER ON EACH SIDE OF THE CASTING SHALL BE POURED BY HAND.
22. THE CURB INLET SHALL HAVE A CATCH-ALL HR-1 OIL AND GREASE FILTER OR APPROVED EQUIVALENT INSTALLED WITHIN THEM.
23. NO BLASTING SHALL OCCUR WITHIN 30 FEET OF ANY EXISTING UTILITIES
24. CONTRACTOR SHALL VERIFY AND COORDINATE ALL UTILITY CONNECTIONS WITH THE BUILDING PRIOR TO CONSTRUCTION.
25. THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS SO AS TO BE IN CONFORMANCE WITH THE CITY OF MADISON EROSION CONTROL AND STORMWATER ORDINANCE, AND DNR ADMINISTRATIVE RULE NR 216 AT ALL TIMES.

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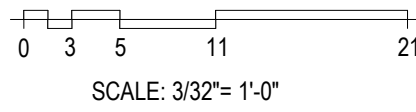
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FIRST FLOOR PLAN

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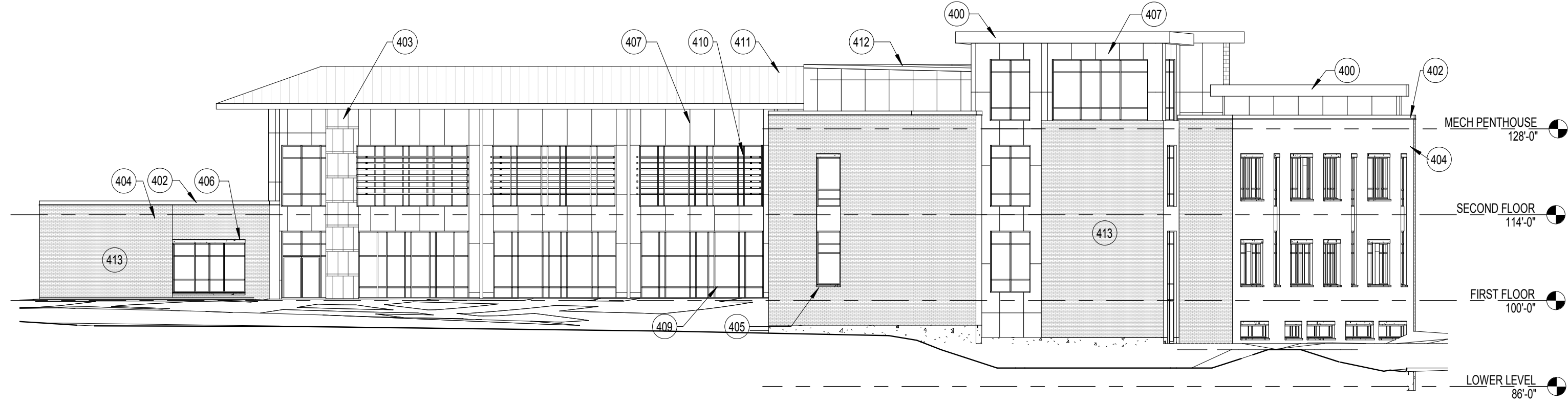
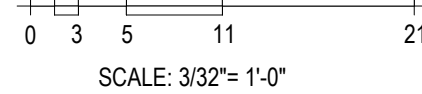
OVERALL EAST ELEVATION



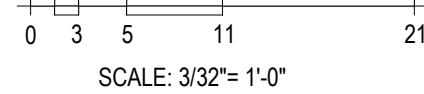
| EXTERIOR ELEVATION NOTES | |
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| NOTE # | EXTERIOR ELEVATION NOTE |
| 400 | METAL FASCIA PANEL |
| 401 | METAL SOFFIT PANEL |
| 402 | METAL COPING |
| 403 | STONE VENEER |
| 404 | BRICK VENEER |
| 405 | PRECAST STONE SILL |
| 406 | PRECAST STONE LINTEL |
| 407 | METAL WALL PANEL, COLOR 1 |
| 408 | METAL WALL PANEL, COLOR 2 |
| 409 | ALUMINUM CURTAIN WALL |
| 410 | SUN SHADE |
| 411 | STANDING SEAM METAL ROOF |
| 412 | MECHANICAL PENTHOUSE |
| 413 | AREA DEDICATED FOR BUILDING SIGNAGE, TO BE DETERMINED AT A LATER DATE. |



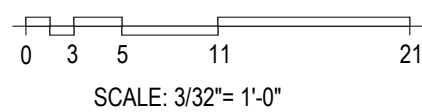
OVERALL NORTH ELEVATION



OVERALL SOUTH ELEVATION



OVERALL WEST ELEVATION



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OVERALL ELEVATIONS - BLACK AND WHITE

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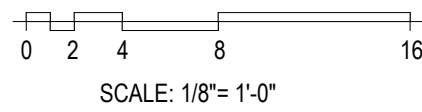
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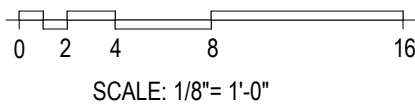
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OVERALL EAST ELEVATION



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| EXTERIOR ELEVATION NOTES | |
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| 413 | AREA DEDICATED FOR BUILDING SIGNAGE. TO BE DETERMINED AT A LATER DATE. |

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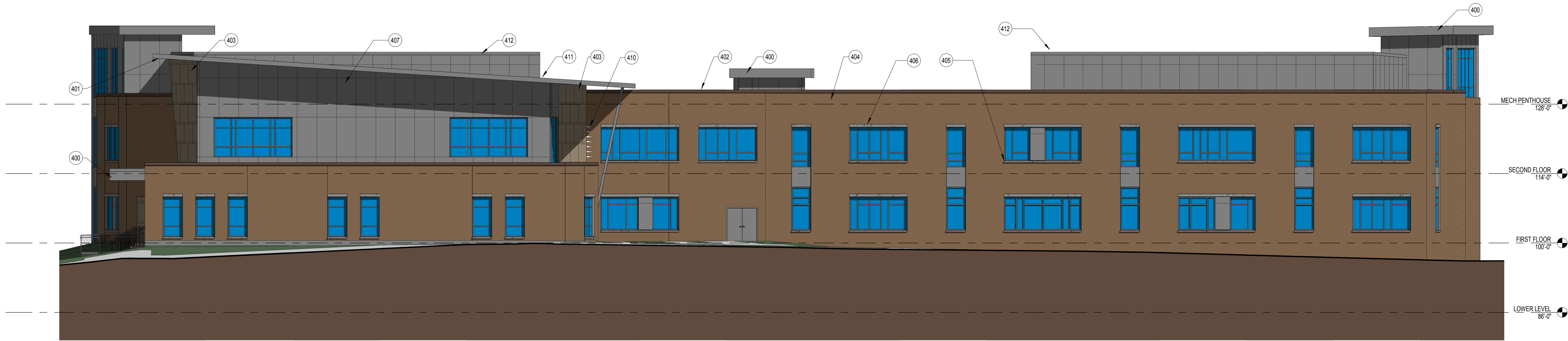


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OVERALL SOUTH ELEVATION

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OVERALL ELEVATIONS - COLOR



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Site plan for the Perry Street project, showing building layout, parking areas, and landscaping. The plan includes numerous callouts for trees (TC 1-18), benches (BN 1-14), and other features. Key areas include the Entry Plaza Enlargement, Rear Plaza Enlargement, and a Drainage Right of Way. The plan is bounded by Badger Road to the north and Perry Street to the west. Benchmarks BM-1, BM-2, BM-3, and BM-4 are marked. Detention Basins with Seed Mix are also indicated.

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Entry Enlargement
Landscape Plan

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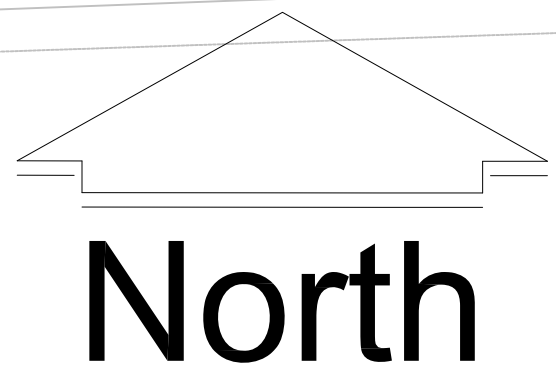
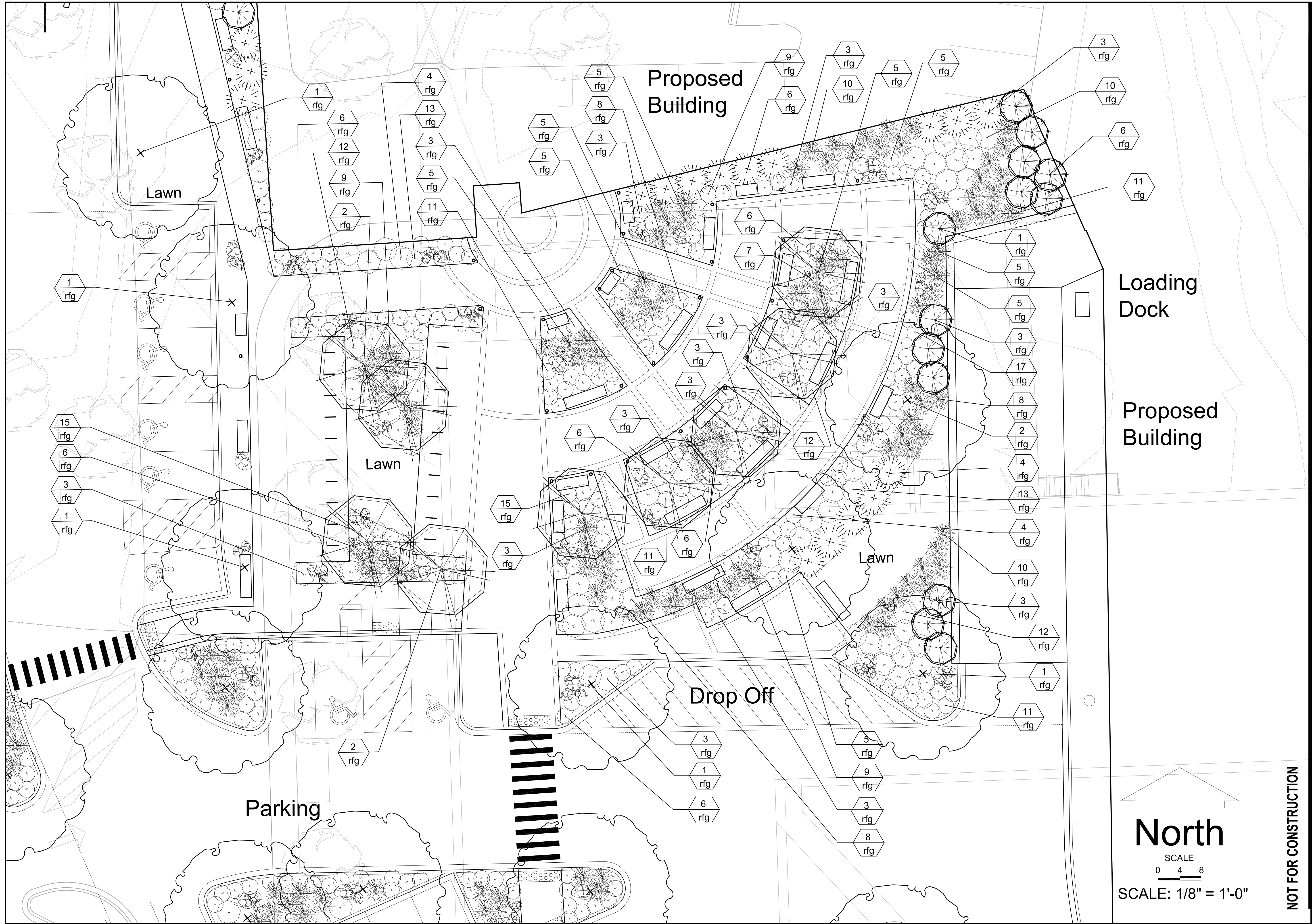
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| Plant Schedule and Points Sheet | |
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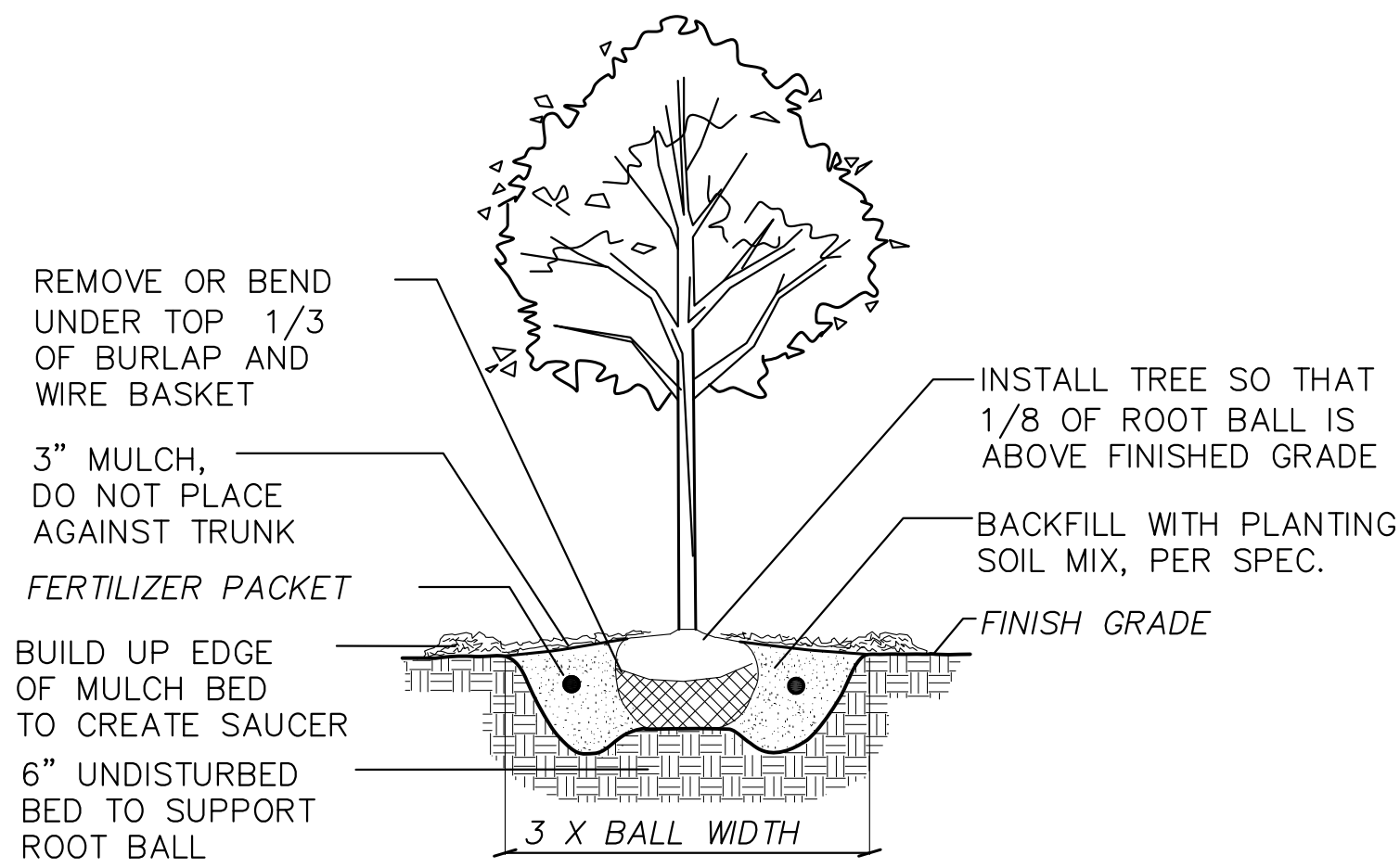
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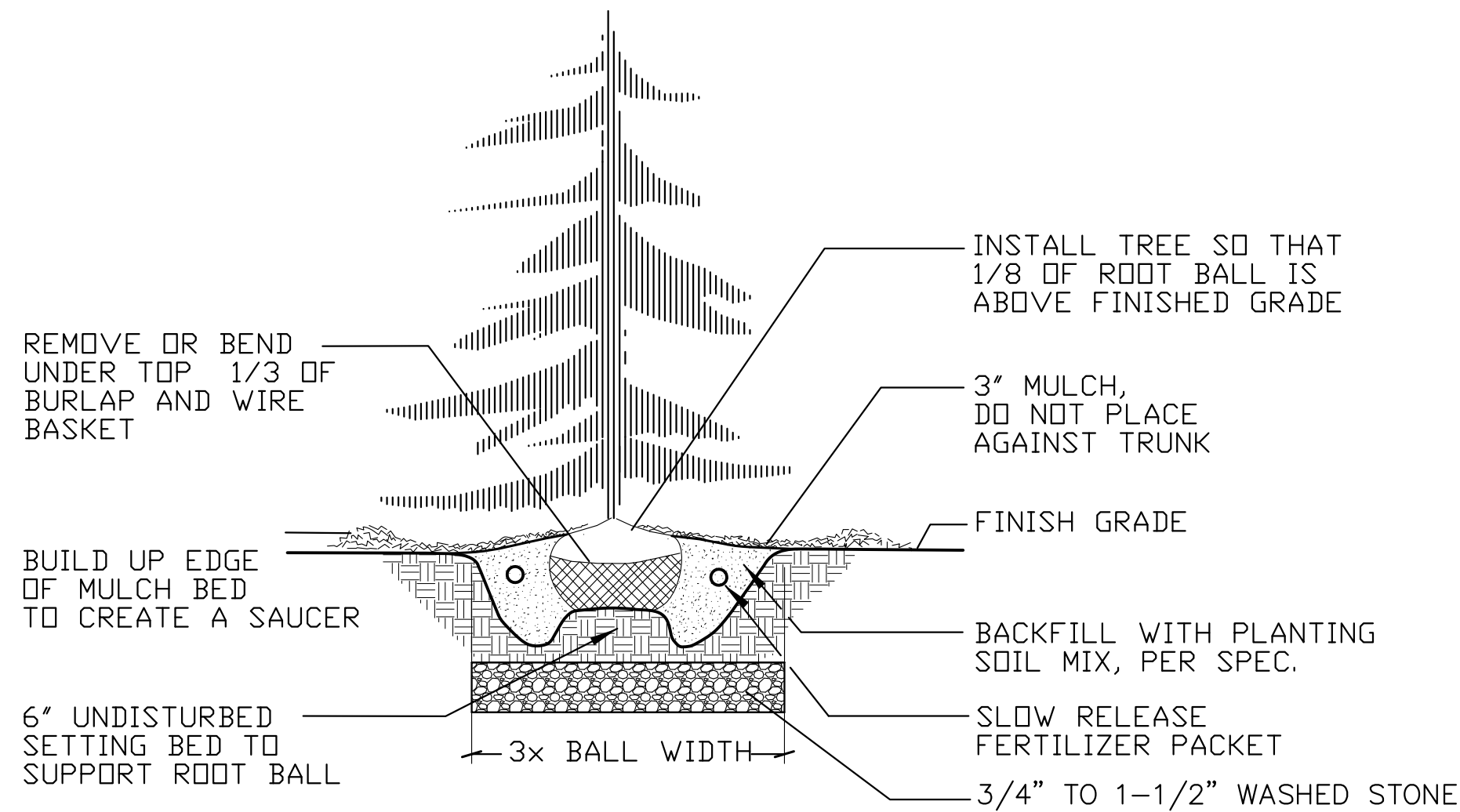
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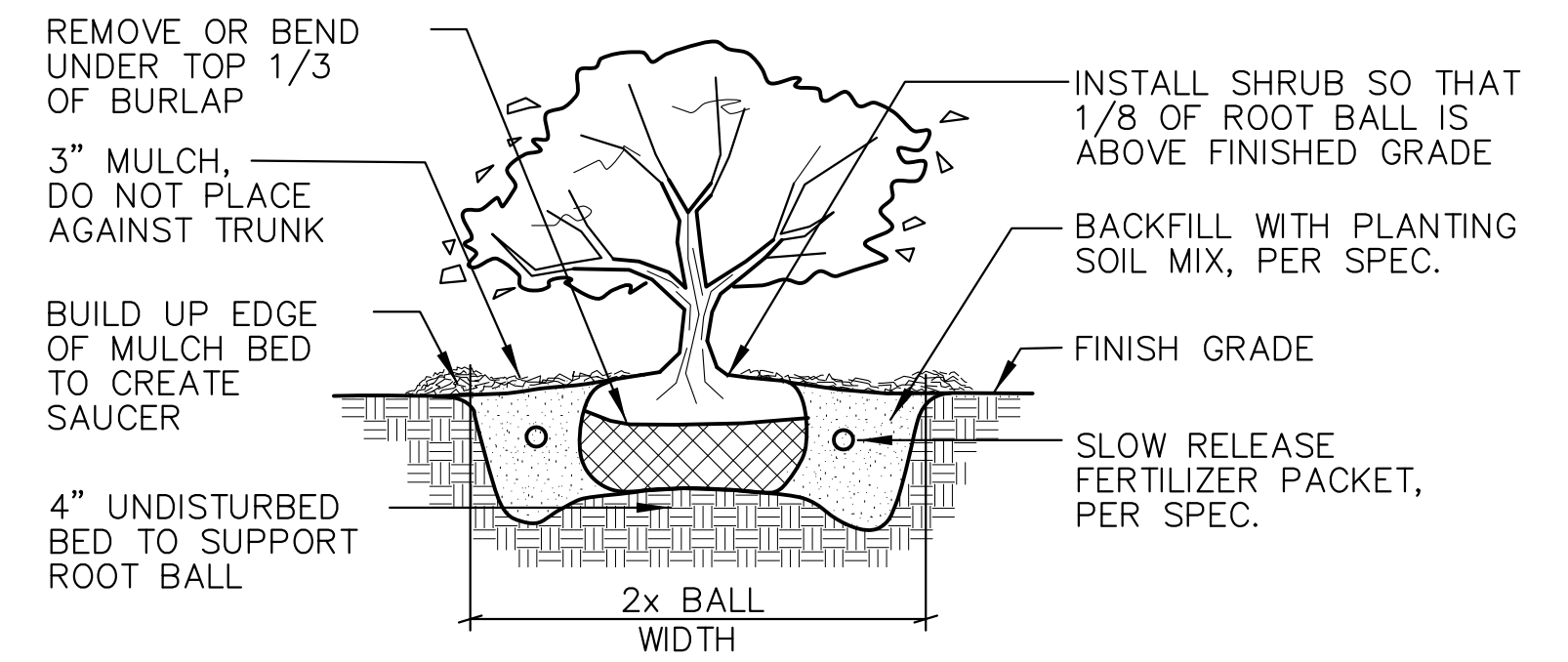
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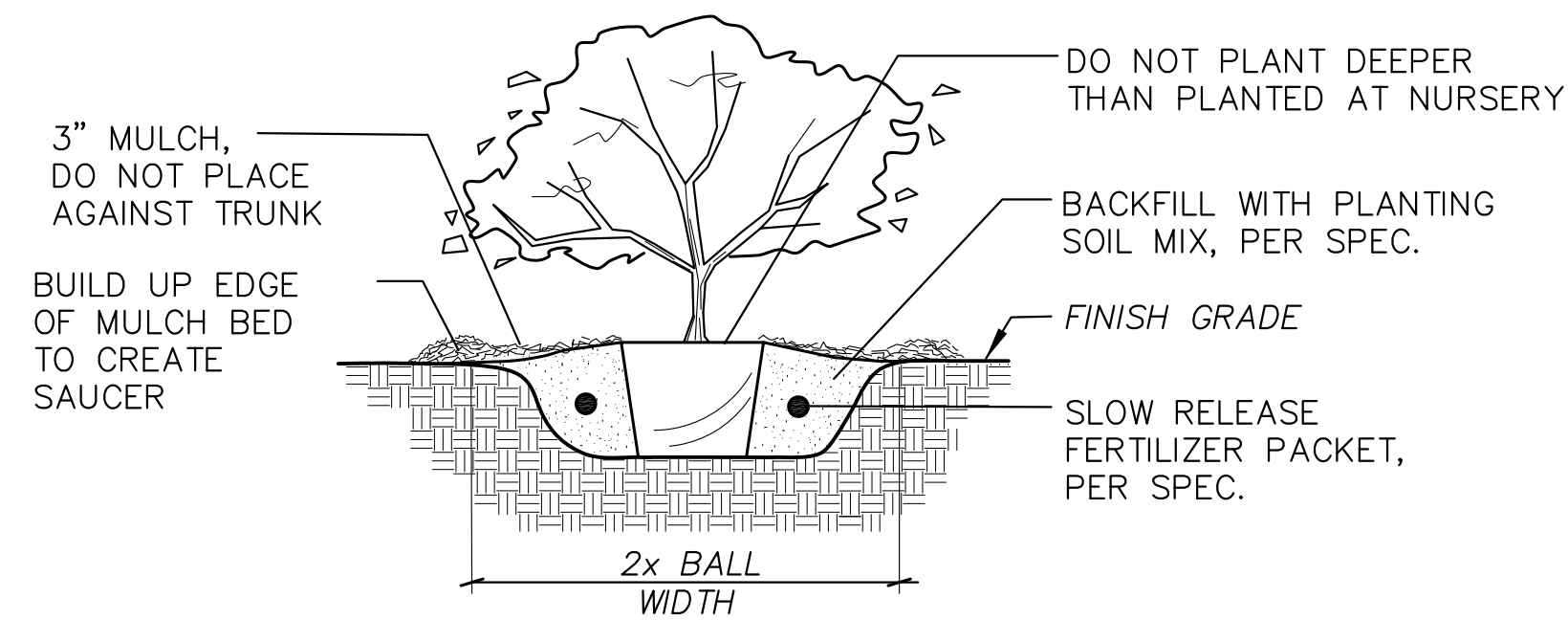
1 B&B TREE PLANTING DETAIL
L105 NTS



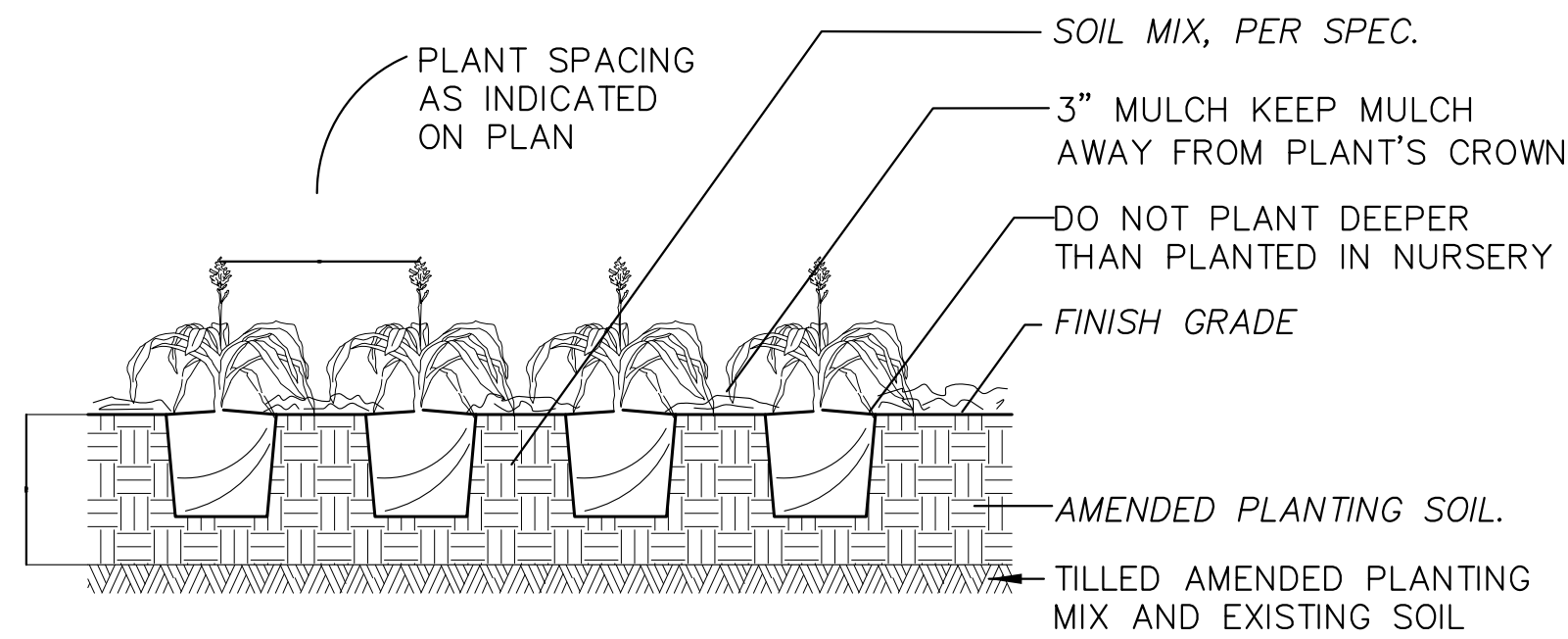
2 B&B EVERGREEN TREE PLANTING DETAIL
L105 NTS



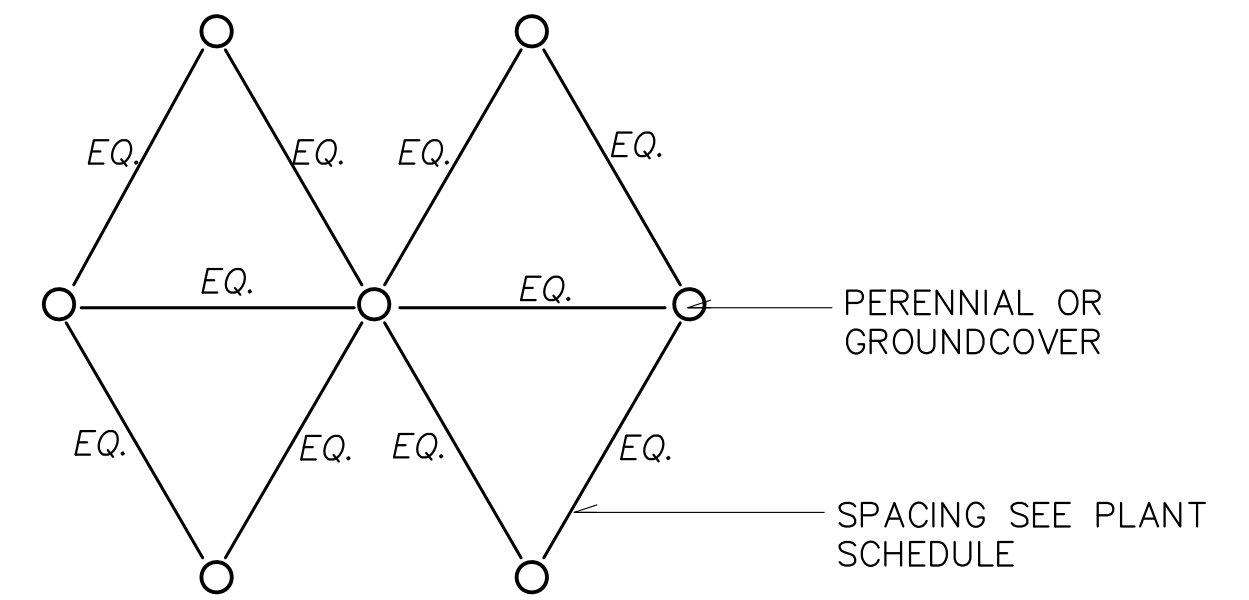
3 B&B SHRUB PLANTING DETAIL
L105 NTS



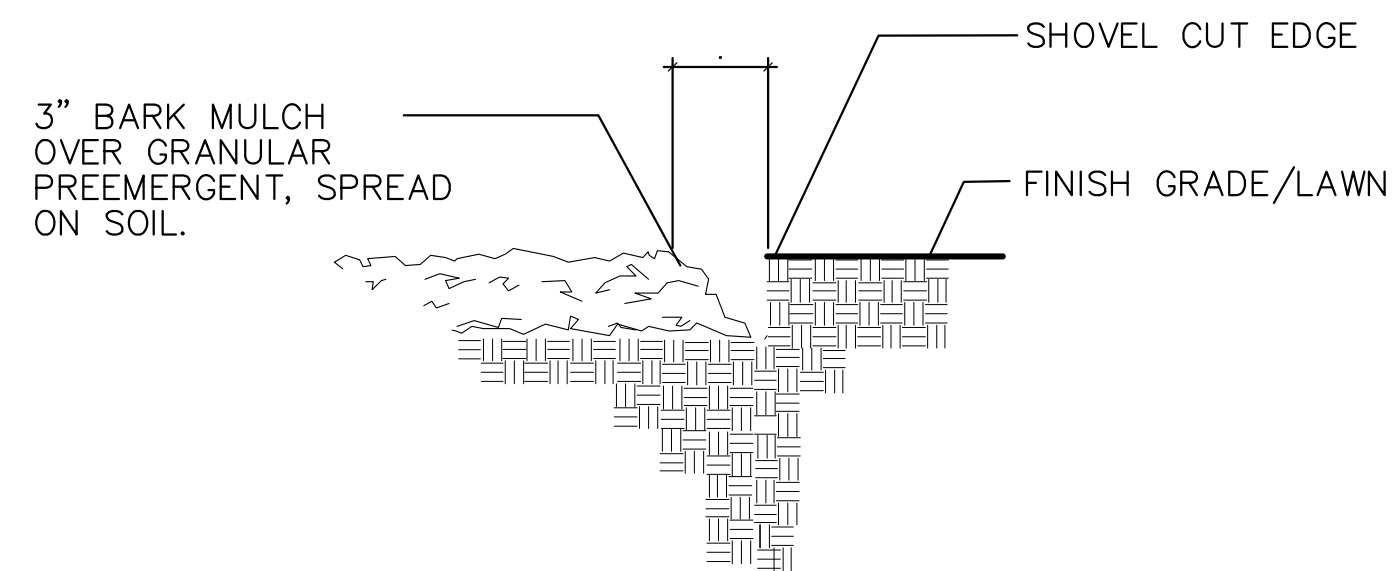
4 CONTAINER PLANTING DETAIL
L105 NTS



5 GROUNDCOVER / PERENNIAL PLANTING DETAIL
L105 NTS



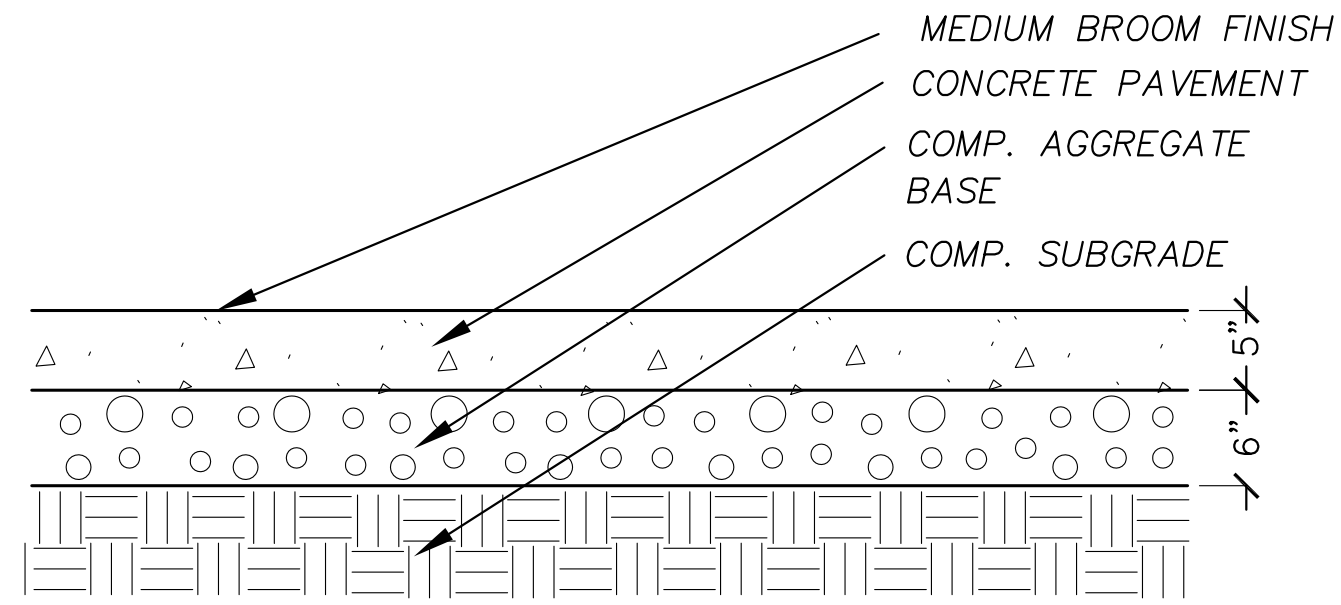
6 PERENNIAL/GROUNDCOVER SPACING DETAIL
L105 NTS



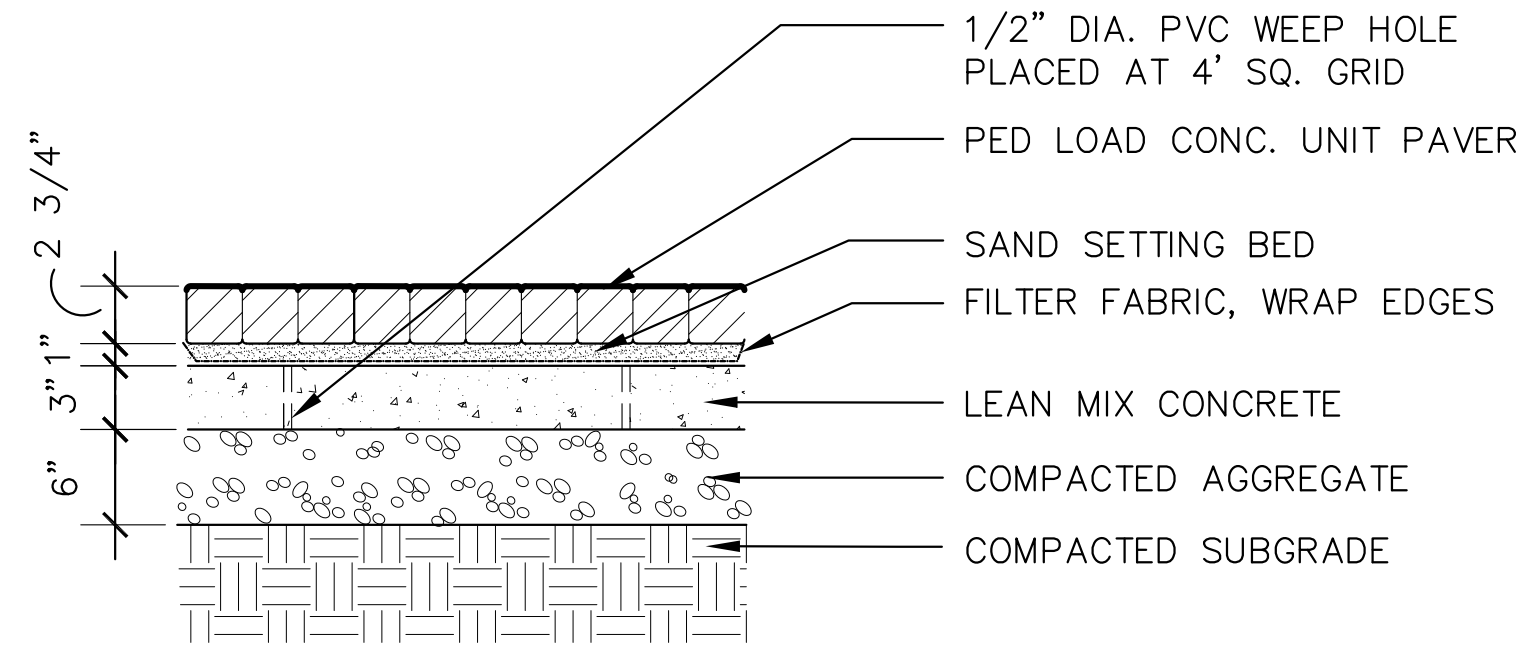
7 BARK MULCH/SHOVEL CUT EDGE DETAIL
L105 NTS

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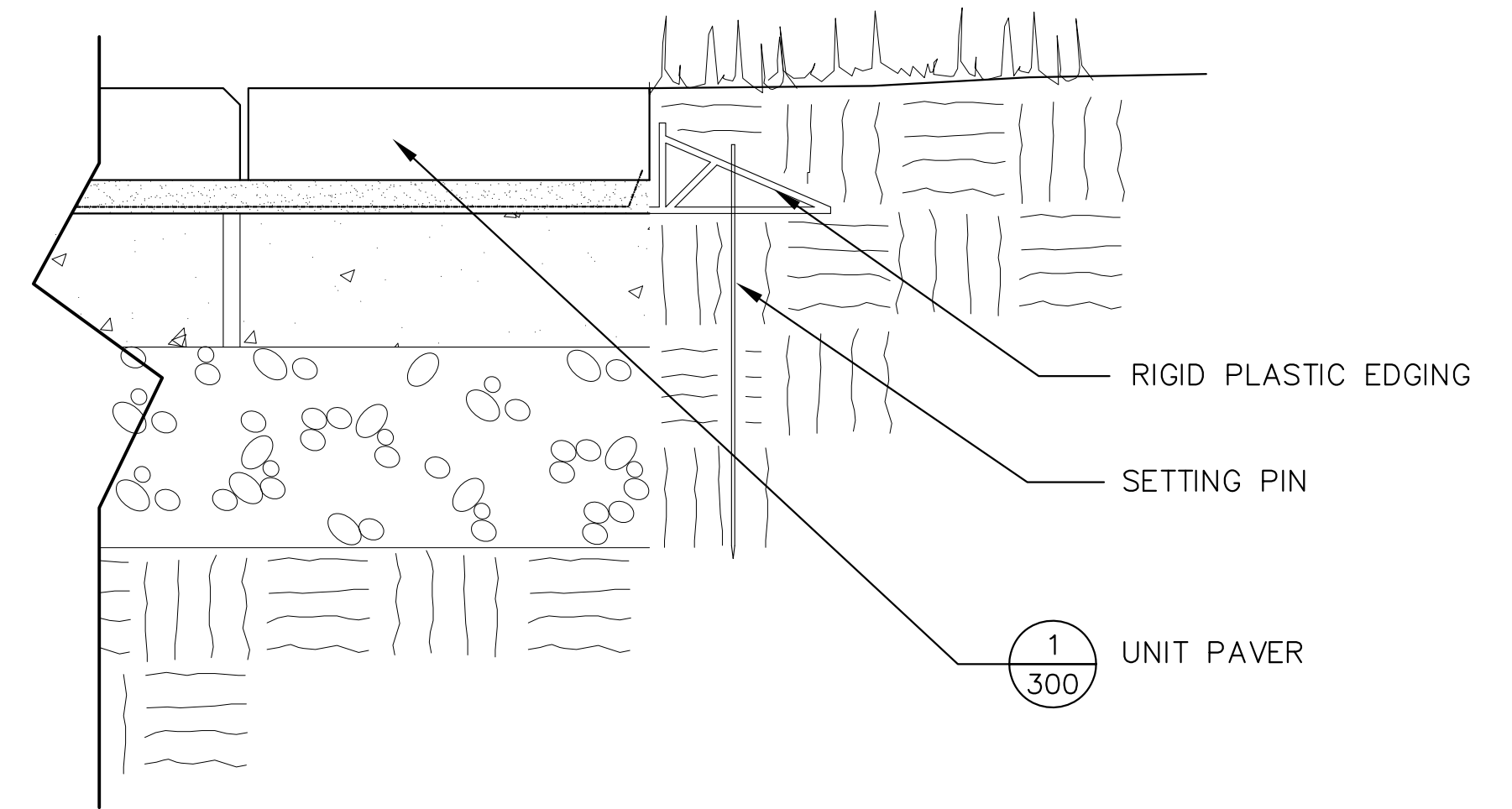
NOT FOR CONSTRUCTION



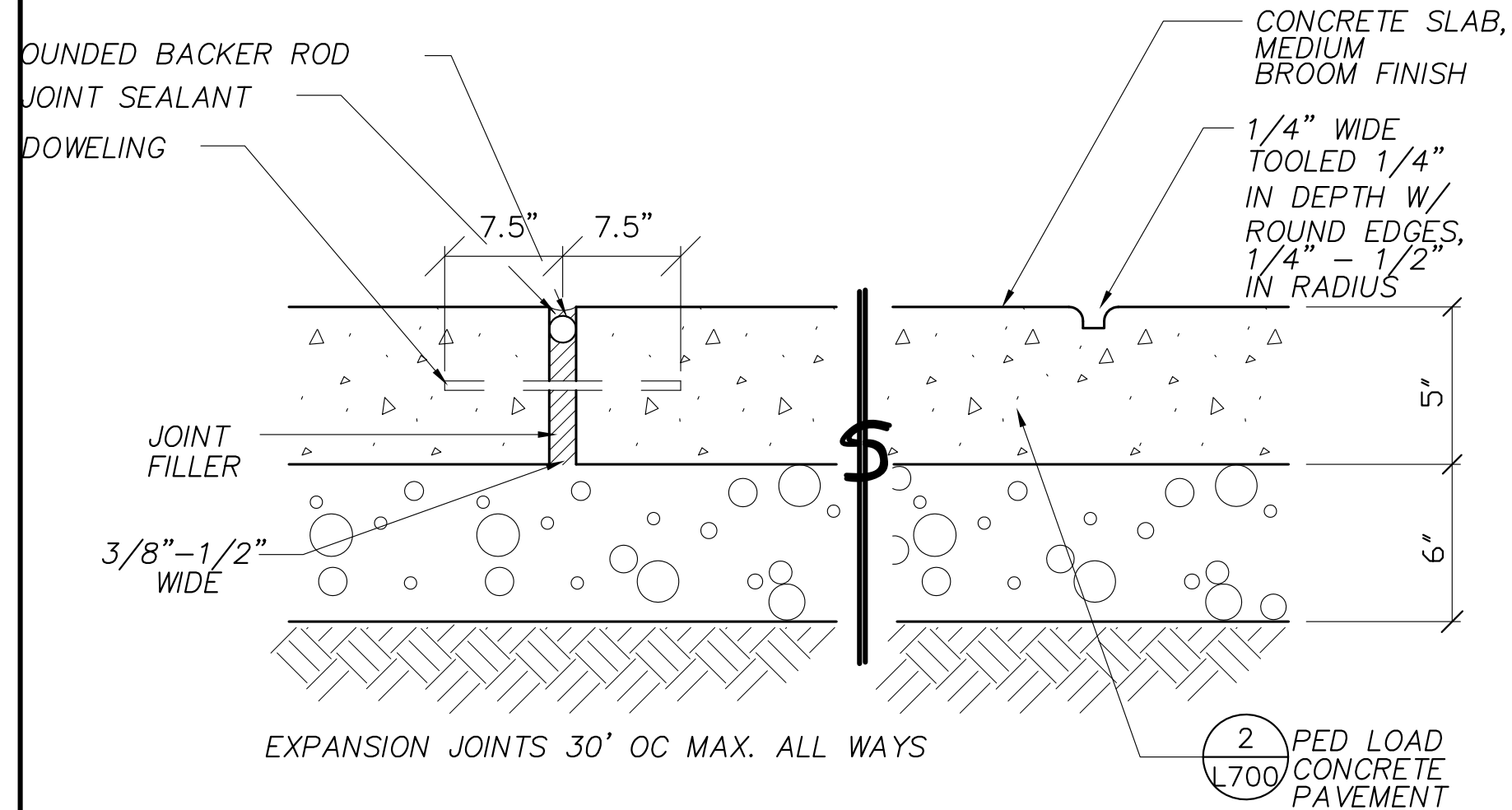
1 PED LOAD CONCRETE PAVEMENT—SECTION
L106 NTS



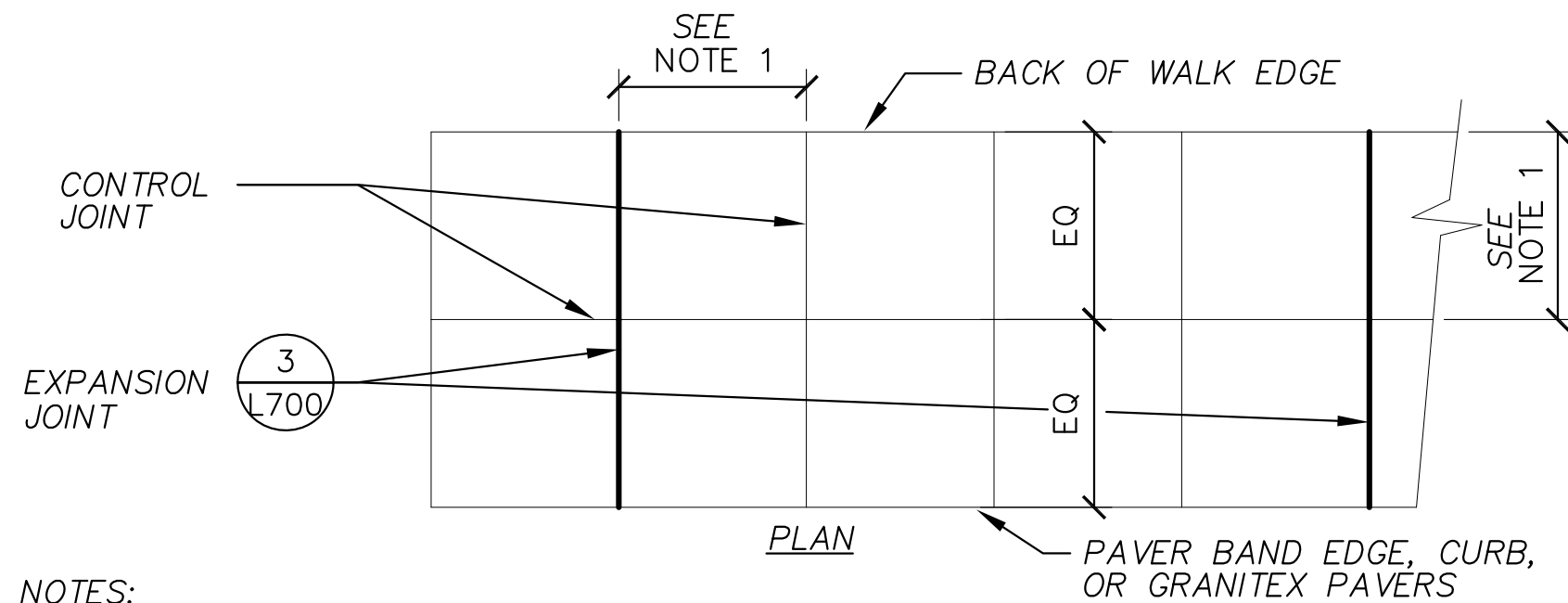
2 PED LOAD UNIT PAVER BAND — SECTION
L106 NTS



3 UNIT PAVER RESTRAINING EDGE
L106 SECTION SCALE 1/2"=1'-0" NTS

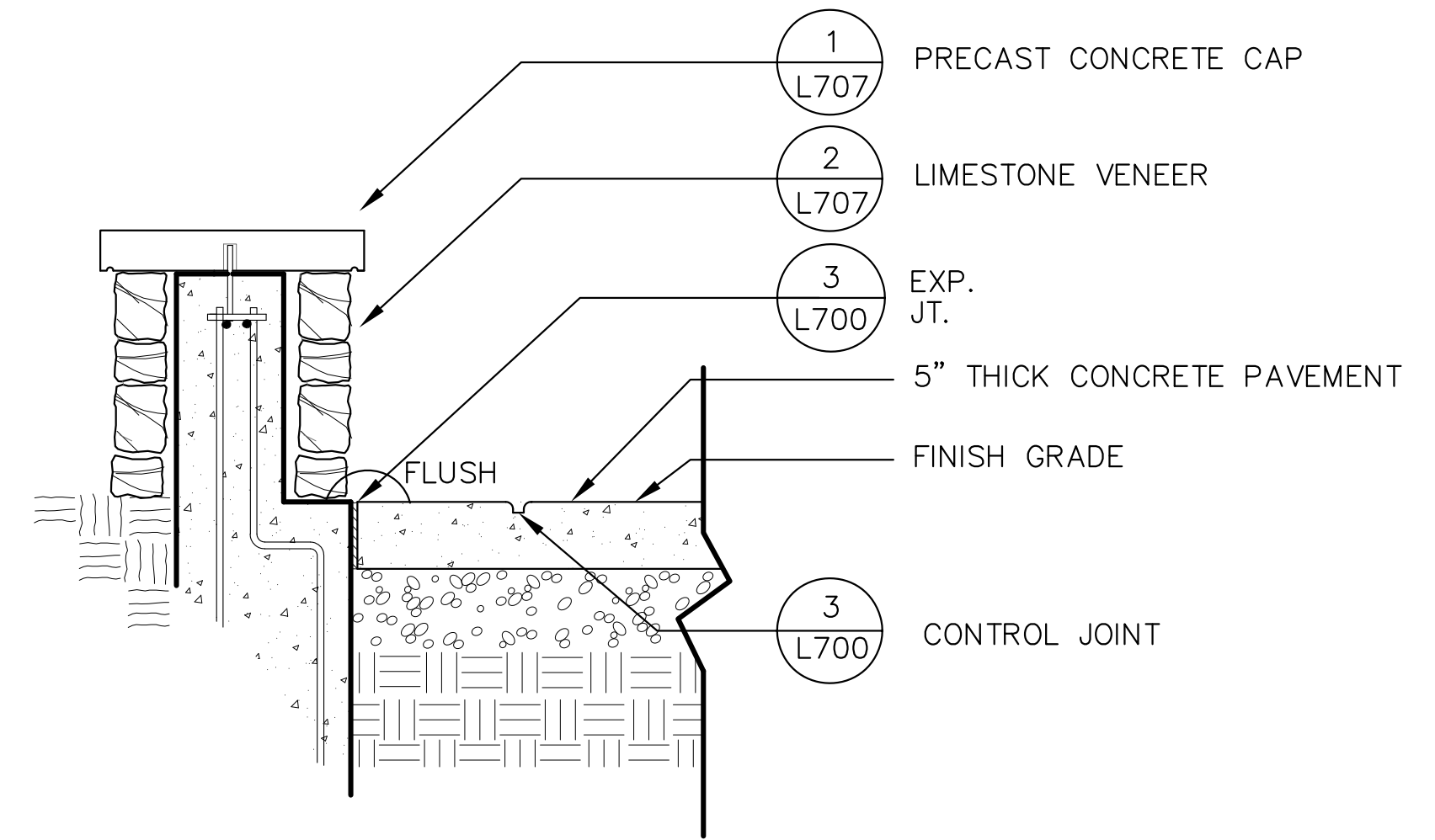


4 EXPANSION/CONTROL JOINT—SECTION
L106 NTS

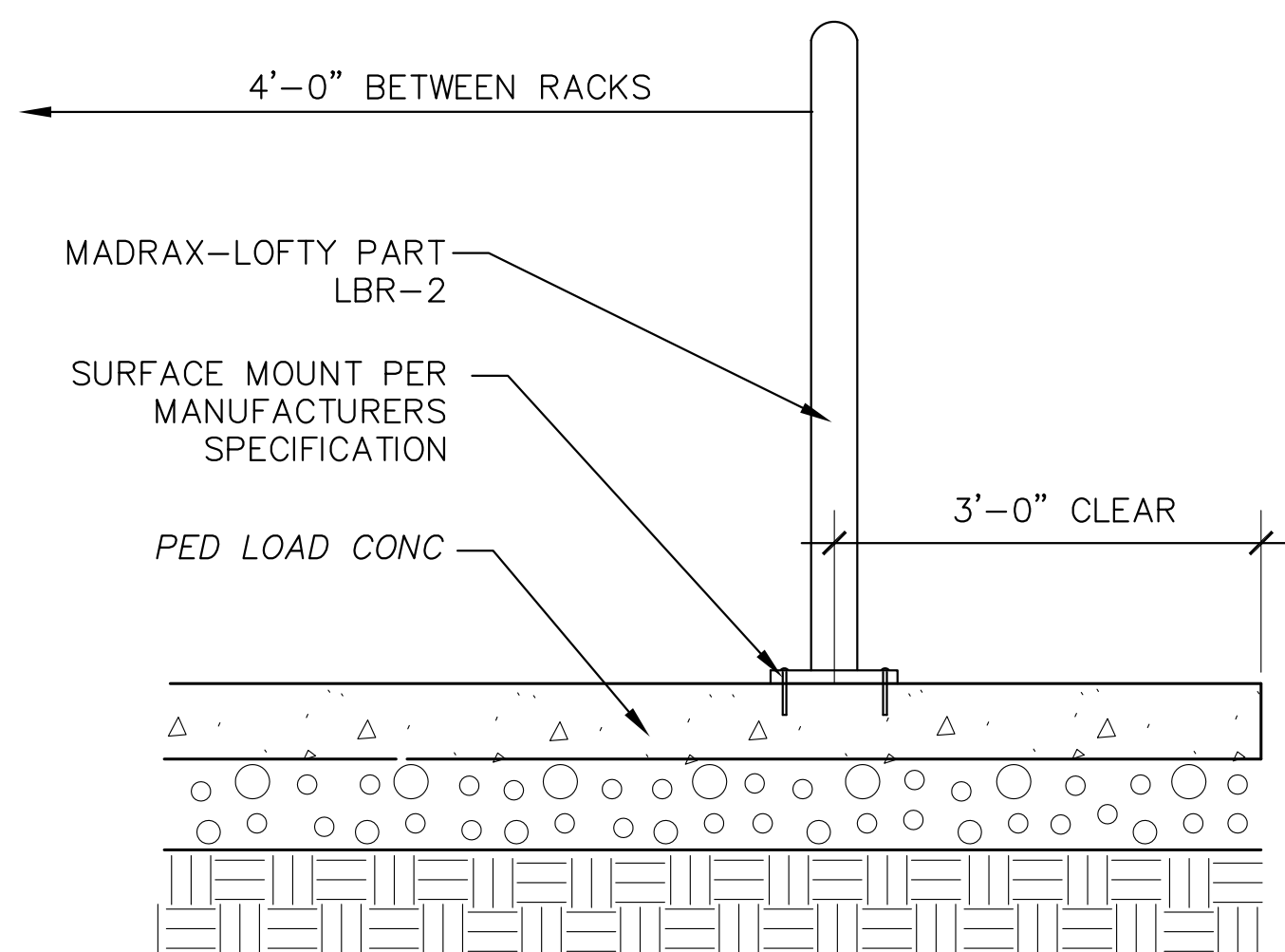


NOTES:
1. FOR 12' WIDE PATH CONTRACTION JOINTS @ 6'-0" O.C., FOR 10' WIDE PATH CONTRACTION JOINTS @ 5'-0" O.C., FOR 8' WIDE PATH CONTRACTION JOINTS @ 4'-0".
2. EXPANSION JOINTS FOR ALL WIDTHS TO BE AT 30' O.C. MAX. ALWAYS. (SEE LAYOUT PLANS FOR ADDITIONAL SCORING PATTERN DETAILS)
3. EXPANSION JOINTS SHALL BE CONSTRUCTED OF PREFORMED JOINT FILLER OR AS SPECIFIED. COLOR TO MATCH PAVEMENT COLOR.

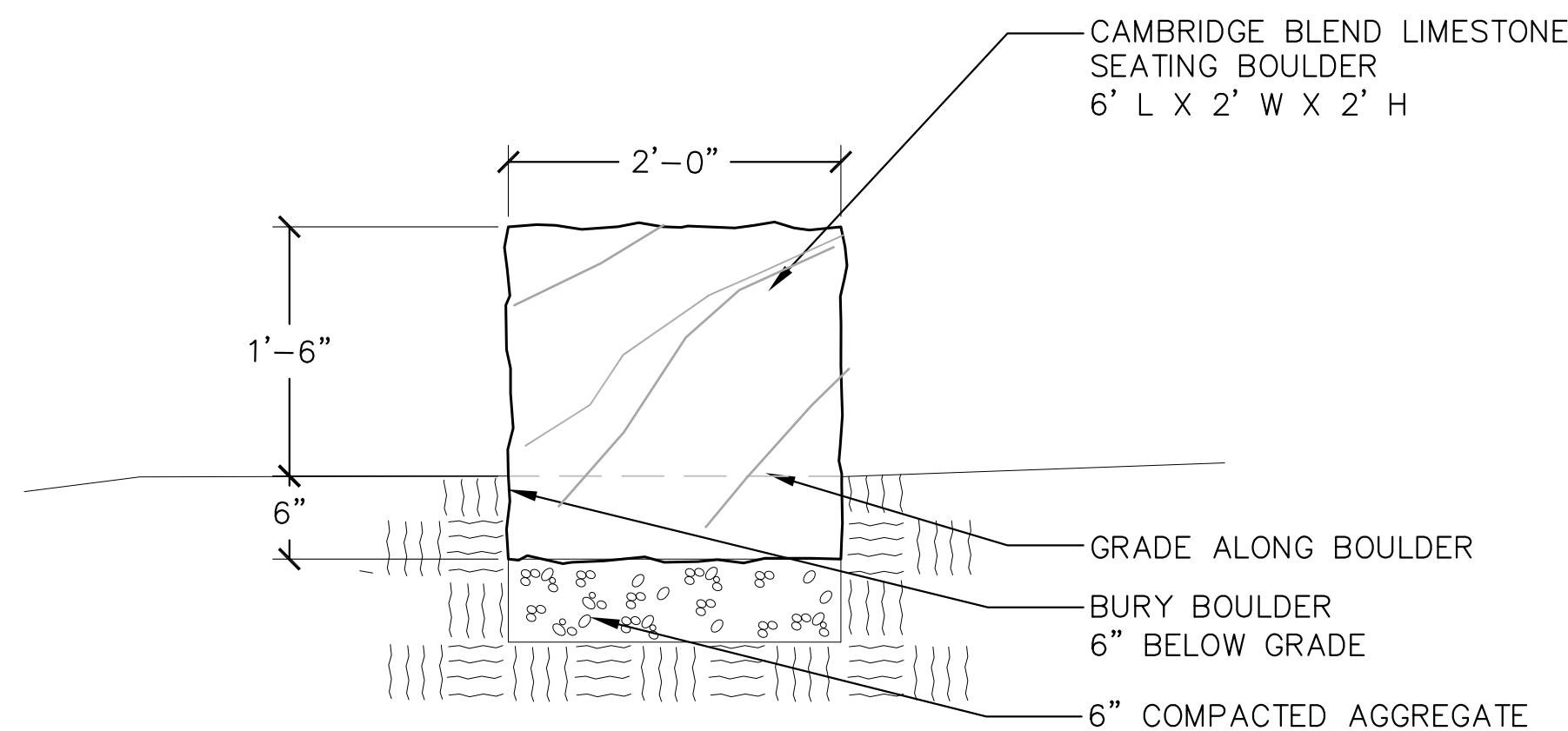
5 CONCRETE PAVEMENT SCORE PATTERN—PLAN
L106 NTS



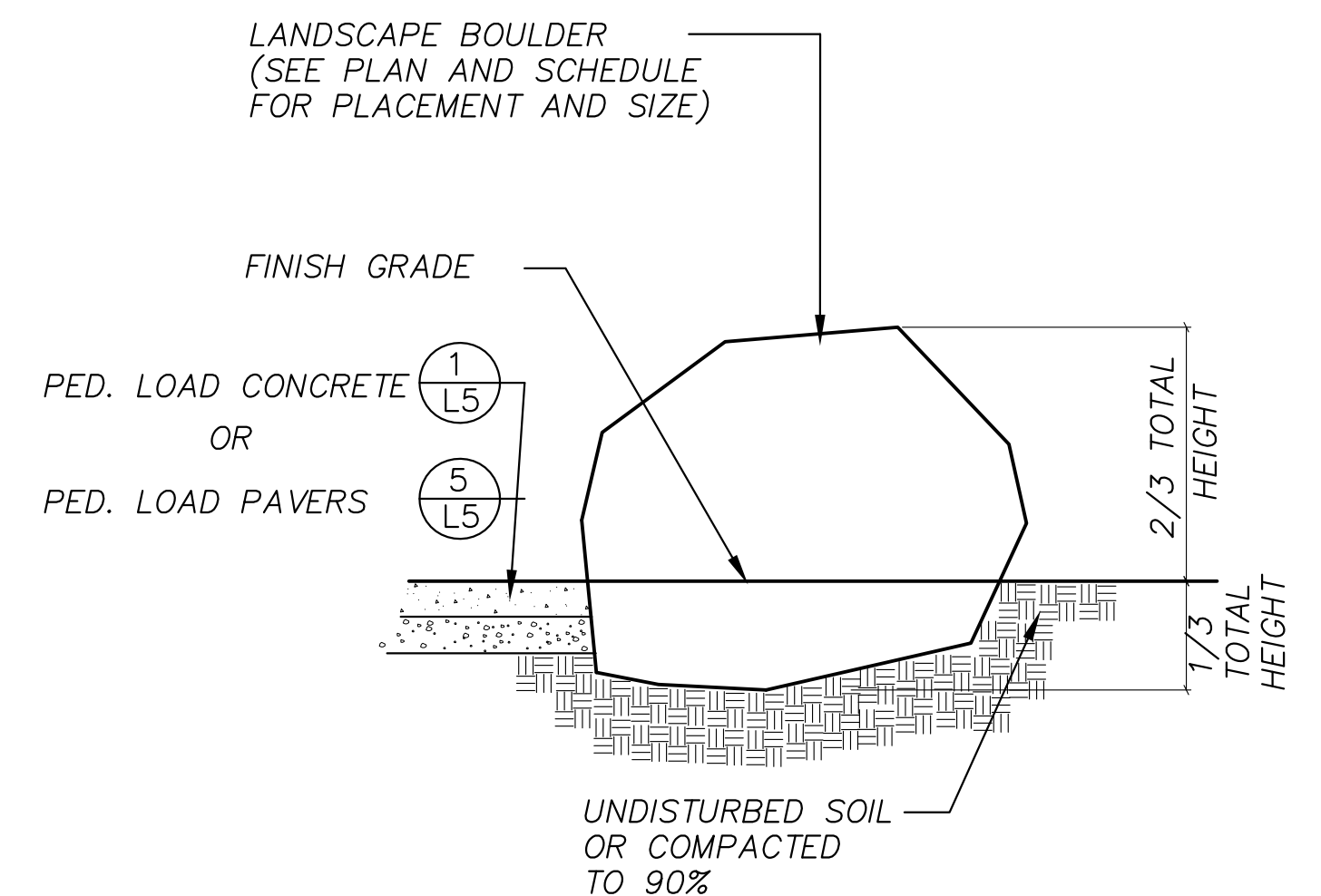
6 FREE STANDING LIMESTONE VENEER BENCH
L106 NTS



7 BIKE RACK ON CONCRETE PAD
L106 SCALE N.T.S.



8 LIMESTONE BLOCK DETENTION BASIN ACCENT
L106 TYPICAL SCALE: NTS



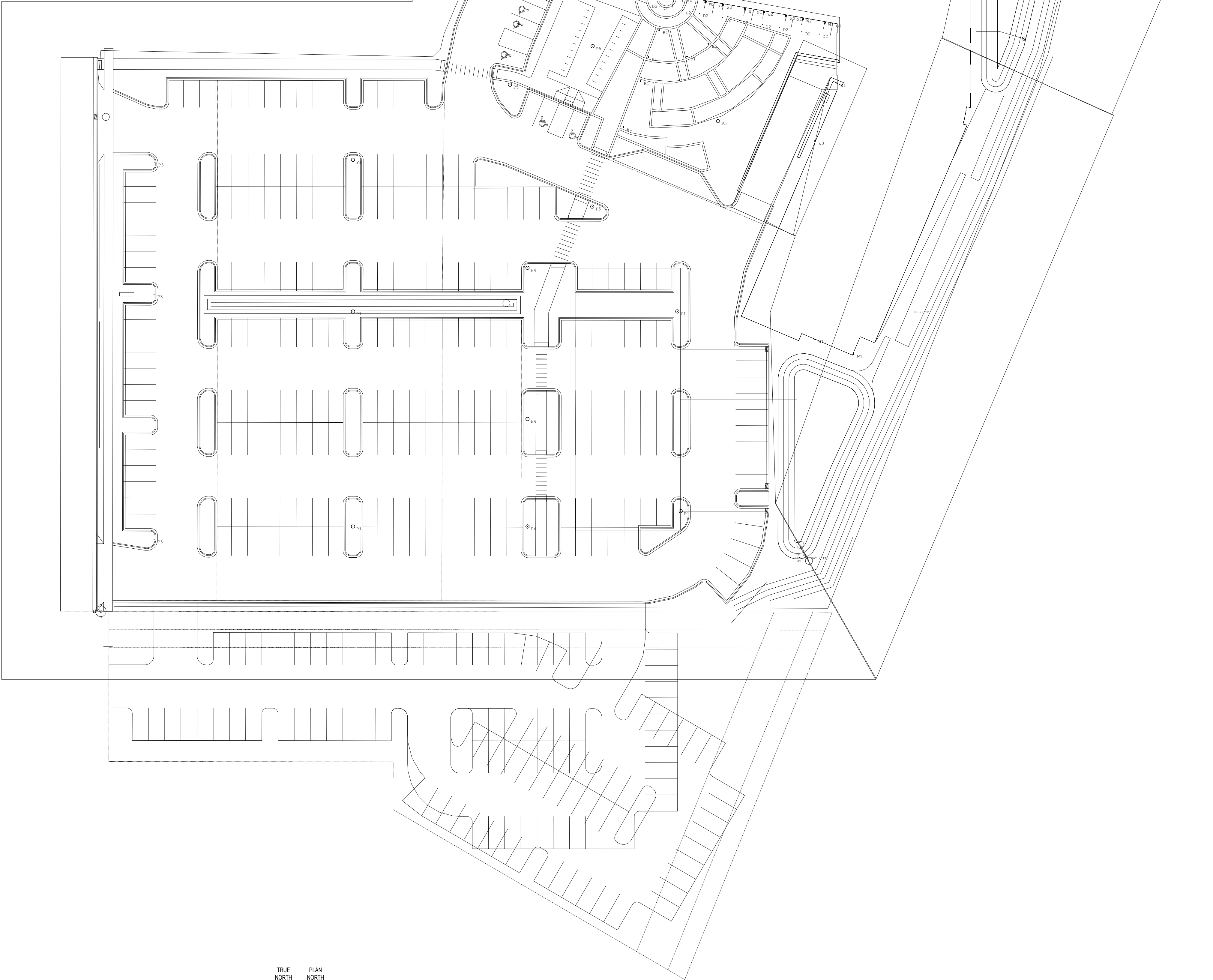
9 LANDSCAPE BOULDER DETAIL— SECTION
L106 SCALE: NTS

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| Calculation Summary | | | | | | |
|---------------------|-------------|-------|------|-----|-----|-----------------|
| Label | CalcType | Units | Avg | Max | Min | Avg/Min Max/Min |
| Stress North East | Illuminance | fc | 2.45 | 3.2 | 1.6 | 1.53 1.94 |

| Luminaire Schedule | Yem | Label | Description | Qty | Watts | lum. lumens | LF |
|--------------------|-----|--------------------------------|---|-----|-------|-------------|-------|
| 1 | 01 | PR7-E00-3M-xx-02-E-01-350-40W | PR7-E00-3M-xx-02-E-01-350-40W B008725180-007 | 21 | 3 | 1775 | 0.800 |
| 2 | 02 | LC043100110 B04835500000 4180W | 4 18W P00001007 | 14 | 3 | 1145 | 0.800 |
| 3 | 02 | LC043100110 B04835500000 4180W | LC043100110 B04835500000 4180W | 28 | 3 | 2297 | 0.800 |
| 4 | 02 | 8001-334-62630 | 12 SQUARE WARM WHITE/TRAPEZOIDAL | 16 | 3 | 1362 | 0.800 |
| 5 | 02 | 8001-334-62630 | 40 X 10 RECP/LIGHT | 1 | 3 | 1342 | 0.800 |
| 6 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 24.5' GRN | 1 | 3 | 1812 | 0.800 |
| 7 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE 11 WITH BACKLIGHT SHIELD FOR 24.5' GRN | 0 | 3 | 1816 | 0.800 |
| 8 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE 11 FOR 24.5' GRN | 0 | 3 | 1856 | 0.800 |
| 9 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 1 | 3 | 13269 | 0.800 |
| 10 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 11 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 12 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 13 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 14 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 15 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 16 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 17 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 18 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 19 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 20 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 21 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 22 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 23 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 24 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 25 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 26 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 27 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 28 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 29 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 30 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 31 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 32 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 33 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 34 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 35 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 36 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 37 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 38 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 39 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 40 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 41 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 42 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 43 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 44 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 45 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 46 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 47 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 48 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 49 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 50 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 51 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 52 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 53 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 54 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 55 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 56 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 57 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 58 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 59 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 60 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 61 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 62 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 63 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 64 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 65 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 66 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 67 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 68 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 69 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 70 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 71 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 72 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 73 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 74 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 75 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 76 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 77 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 78 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 79 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 80 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
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| 82 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 83 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 84 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 85 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 86 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 87 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 88 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 89 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 90 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 91 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 92 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
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| 99 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |
| 100 | 02 | 28W-2-16-535 | PR13 CUTOFF TYPE V AREA LIGHT FOR 14' GRN | 0 | 3 | 1406 | 0.800 |



NOT FOR CONSTRUCTION

| MADISON COLLEGE SOUTH CAMPUS EXTERIOR LUMINAIRE SCHEDULE | | | | | | | | |
|--|------|--|-------|--------------------------------|--------------------|--------------------------------------|--|---|
| QTY | TYPE | DESCRIPTION | CCT | NOMINAL DELIVERED LUMENS | NOMINAL WATTAGE | MFTR | MODEL # | NOTES |
| | B1 | 42" BOLLARD. SYMMETRICAL DISTRIBUTION. FINISH TO BE DETERMINED. | 4000K | 1,780 | 22 | CREE INTRIGUE AMERLUX | PATHWAY PWY-EDG-5M-P42-02-E-UL-XX-350-40K | |
| | D1 | 4 INCH APERTURE DOWNLIGHT WITH SELF-TRIMMING MATTE CLEAR OR HAZE REFLECTOR. LENSED FOR COVERED EXTERIOR SOFFIT. | 4000K | 1,500 | 16 | HALO | LD4B-15-D010/EU4B-1020-80-40/4LBM-1H | |
| | D2 | 6 INCH APERTURE DOWNLIGHT WITH SELF-TRIMMING MATTE CLEAR OR HAZE REFLECTOR. LENSED FOR COVERED EXTERIOR SOFFIT. | 4000K | 2,240 | 28 | HALO | LD6B-30-D010/EU6B-3050-8040/6LBM1H | |
| | G1 | KNUCKLE MOUNTED 10 DEGREE EXTERIOR SPOTLIGHT WITH JUNCTION BOX MOUNT, JUNCTION BOX AND GLARE SHIELD. FINISH TO BE DETERMINED. | 3500K | 1,300 | 17 | AMERLUX | ACCION LARGE ACCL35-10-K-XXX-JCOV-JBOX-HGL | MOUNTED AT TOP OF COLUMNS AT NORTH ENTRANCE. MOUNTED AT BOTTOM OF COLUMNS AT SOUTH ENTRANCE. |
| | G2 | KNUCKLE MOUNTED 30 X 60 DEGREE EXTERIOR SPOTLIGHT WITH HEAVY-DUTY POYCARBONATE STEAK AND GLARE SHIELD. FINISH TO BE DETERMINED. | 3500K | 1,200 | 17 | AMERLUX | ACCION LARGE ACCL35-V6030-K-XXX-GSO17-HGL | SIGN LIGHTING TO BE CONFIRMED WITH FINAL PLACEMENT AND SIZING OF SIGNS. |
| | P1 | FULL CUTOFF AREA LIGHT, TYPE V DISTRIBUTION. PROVIDE WITH 22' ROUND STRAIGHT STEEL POLE. TO BE MOUNTED ON 30" RAISED CONCRETE BASE. FINISH TO BE DETERMINED. | 4000K | 18,400 | 171 | CREE CYCLONE USA ARCHITECTURAL | EDGE ROUND ARE-EDR-5M-R3-10-E-UL-XX-525-40K | |
| | P2 | FULL CUTOFF AREA LIGHT, TYPE II DISTRIBUTION WITH HOUSE SIDE SHIELD. PROVIDE WITH 22' ROUND STRAIGHT STEEL POLE. TO BE MOUNTED ON 30" RAISED CONCRETE BASE. FINISH TO BE DETERMINED. | 4000K | 13,200 | 171 | CREE CYCLONE USA ARCHITECTURAL | EDGE ROUND ARE-EDR-2BLS-R3-10-E-UL-XX-525-40K | |
| | P3 | FULL CUTOFF AREA LIGHT, TYPE III DISTRIBUTION. PROVIDE WITH 22' ROUND STRAIGHT STEEL POLE. TO BE MOUNTED ON 30" RAISED CONCRETE BASE. FINISH TO BE DETERMINED. | 4000K | 16,600 | 171 | CREE CYCLONE USA ARCHITECTURAL | EDGE ROUND ARE-EDR-3M-R3-10-E-UL-XX-525-40K | |
| | P4 | FULL CUTOFF AREA LIGHT, TYPE V DISTRIBUTION. PROVIDE WITH 16' ROUND STRAIGHT STEEL POLE. TO BE MOUNTED ON FLUSH CONCRETE BASE. FINISH TO BE DETERMINED. | 4000K | 13,100 | 134 | CREE CYCLONE USA ARCHITECTURAL | EDGE ROUND ARE-EDR-5M-R3-06-E-UL-XX-700-40K | |
| | P5 | FULL CUTOFF AREA LIGHT, TYPE V DISTRIBUTION. PROVIDE WITH 14' ROUND STRAIGHT STEEL POLE. TO BE MOUNTED ON FLUSH CONCRETE BASE. FINISH TO BE DETERMINED. | 4000K | 7,500 | 70 | CREE CYCLONE USA ARCHITECTURAL | EDGE ROUND ARE-EDR-5M-R3-04-E-UL-XX-525-40K | |
| | W1 | FULL CUTOFF EXTERIOR WALL LUMINAIRE. TYPE 3 DISTRIBUTION. FINISH TO BE DETERMINED. | 4000K | 2,000 | 25 | CREE | EDGE SECURITY SEC-EDG-3M-WM-02-E-UL-XX-350-40K | MOUNTED AT APPROXIMATELY 9' AFG. |
| | W2 | COLOR CHANGING (RGBW) EXTERIOR FLOODLIGHT FOR UPLIGHTING UNDERSIDE OF BUILDING CANOPY. DMX CONTROL REQUIRED. | N/A | MAX 3200 WHEN ALL ON | 85 | TRAXXON | QUATTRO WASH RGBW | MOUNTED AT APPROXIMATELY 26' AFG TO INDIRECTLY LIGHT CANOPY AT NORTH SIDE OF BUILDING. MOUNTED AT APPROXIMATELY XX' TO INDIRECTLY LIGHT CANOPY AT SOUTH SIDE OF BUILDING. |
| | W1 | FULL CUTOFF EXTERIOR WALL LUMINAIRE. TYPE 3 DISTRIBUTION. FINISH TO BE DETERMINED. | 4000K | 10,300 | 132 | CREE | EDGE SECURITY SEC-EDG-3M-WM-06-E-UL-XX-700-40K | MOUNTED AT APPROXIMATELY 18' AFG. |

Cree Edge™ Series

LED Pathway Luminaire

Product Description

Durable die-cast aluminum luminaire housing mounts directly to 4" (102mm) diameter pole (included) without visible mounting hardware for clean appearance. Pole mounts to rugged die cast aluminum internal flange secured by three 3/8" - 16x6" anchor bolts with 1-1/4" hook (provided). **Note:** T45 Torx 3/8" socket required for head installation. Top mounted LEDs for superior optical performance and light control.

Applications: Landscape, walk-ways and general site lighting

Performance Summary

Patented NanoOptic® Product Technology

Made in the U.S.A. of U.S. and imported parts

CRI: Minimum 70 CRI

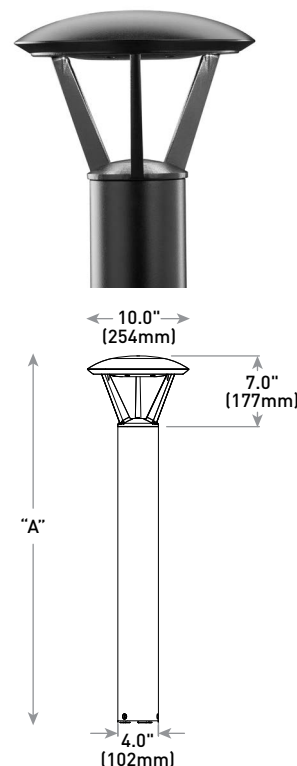
CCT: 4000K (+/- 300K), 5700K (+/- 500K) standard

Limited Warranty*: 10 years on luminaire/10 years on Colorfast DeltaGuard® finish

* See <http://lighting.cree.com/warranty> for warranty terms

Accessories

| Field-Installed |
|--|
| Upgrade Kit - Used for replacement of existing bollards with a bolt hole circle of 5.75" (146mm) XA-XBP8RSV XA-XBP8RWH XA-XBP8RBK XA-XBP8RBZ |



| Model | Dim. "A" | Weight* |
|-----------------|--------------|-------------------|
| Landscape [P0] | 13" (330mm) | 12.7 lbs. (5.8kg) |
| Landscape [P1] | 18" (457mm) | 13.3 lbs. (6.0kg) |
| Pathway [P3] | 36" (914mm) | 17.9 lbs. (8.1kg) |
| Pathway [P4] | 42" (1068mm) | 18.6 lbs. (8.4kg) |
| Pedestrian [P8] | 96" (2438mm) | 28.4 lbs (12.9kg) |

* Add 4.5 lbs. (2.0kg) for 347-480V

Ordering Information

Example: PWY-EDG-2M-P0-02-E-UL-SV-350

| PWY-EDG | | | 02 | E | | | | |
|---------|--|--|----------------|--------|--|--|---|--|
| Product | Optic | Mounting | LED Count (x9) | Series | Voltage | Color Options | Drive Current | Options |
| PWY-EDG | 2M Type II Medium 3M Type III Medium 5M Type V Medium 5S Type V Short | P0 13" (330mm) landscape P1 18" (457mm) landscape P3 36" (914mm) pathway P4 42" (1067mm) pathway P8 96" (2438mm) pedestrian | 02 | E | UL Universal 120-277V UH* Universal 347-480V - Available with P3, P4, and P8 mounts only 12 120V 27 277V | BK Black BZ Bronze SV Silver WH White | 350 350mA 525 525mA - Available with P1, P3, P4, and P8 mounts only | F Fuse - When code dictates fusing, use time delay fuse - Refer to ML spec sheet for availability with ML options HL Hi/Low (Dual Circuit Input) - Available with UL voltage and 525mA driver current only - Refer to HL spec sheet for details - Sensor not included TL Two-Level (175/525 w/integrated sensor control) - Available with 12 or 27 voltages only - Refer to TL spec sheet for details TL2 Two-Level (0/350 w/integrated sensor control) - Available with 12 or 27 voltages only - Refer to TL spec sheet for details TL3 Two-Level (0/525 w/integrated sensor control) - Available with 12 or 27 voltages only - Refer to TL spec sheet for details WB Welded Base Plate - Standard on P8 mount option, available with P3 and P4 mount - Includes welded base cover 40K 4000K Color Temperature - Minimum 70 CRI - Color temperature per luminaire |

* 347-480V utilizes magnetic step-down transformer. For input power for 347-480V, refer to the Electrical Data table



Rev. Date: V5 08/11/2016



Product Specifications

CONSTRUCTION & MATERIALS

- Durable die-cast aluminum luminaire housing mounts directly to 4" (102mm) diameter pole (included) without visible mounting hardware for clean appearance
- Pole mounts to rugged die cast aluminum internal flange secured by three 3/8"-16x6" anchor bolts with 1-1/4" hook(provided).
Note: T45 Torx 3/8" socket required for head installation
- Top mounted LEDs for superior optical performance and light control
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultradurable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Black, bronze, silver and white are available
- **Weight:** See Dimension and Weight Chart on pages 1 and 4

ELECTRICAL SYSTEM

- **Input Voltage:** 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- **Power Factor:** > 0.9 at full load at 120V
- **Total Harmonic Distortion:** < 20% at full load at 120V
- Integral 10kV surge suppression protection standard
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- 10kV surge suppression protection tested in accordance with IEEE/ANSI C62.41.2
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- Meets Buy American requirements within ARRA
- RoHS compliant. Consult factory for additional details

| Electrical Data* [A] | | | | | | | | |
|----------------------|-----------------------|-----------------------|---------------|------|------|------|------|------|
| LED Count (x9) | System Watts 120-277V | System Watts 347-480V | Total Current | | | | | |
| | | | 120V | 208V | 240V | 277V | 347V | 480V |
| 350mA | | | | | | | | |
| 02 | 22 | 28 | 0.18 | 0.12 | 0.10 | 0.10 | 0.09 | 0.13 |
| 525mA | | | | | | | | |
| 02 | 34 | 40 | 0.29 | 0.19 | 0.17 | 0.15 | 0.12 | 0.13 |

* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V +/- 10%

| Recommended Cree Edge™ Series Lumen Maintenance Factors (LMF) ¹ | | | | | |
|--|-------------|-----------------------------------|-----------------------------------|------------------------------------|-------------------------------------|
| Ambient | Initial LMF | 25K hr Projected ² LMF | 50K hr Projected ² LMF | 75K hr Calculated ³ LMF | 100K hr Calculated ³ LMF |
| 5°C (41°F) | 1.04 | 0.99 | 0.97 | 0.95 | 0.93 |
| 10°C (50°F) | 1.03 | 0.98 | 0.96 | 0.94 | 0.92 |
| 15°C (59°F) | 1.02 | 0.97 | 0.95 | 0.93 | 0.91 |
| 20°C (68°F) | 1.01 | 0.96 | 0.94 | 0.92 | 0.90 |
| 25°C (77°F) | 1.00 | 0.95 | 0.93 | 0.91 | 0.89 |

¹ Lumen maintenance values at 25°C are calculated per TM-21 based on LM-80 data and in-situ luminaire testing

² In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip)

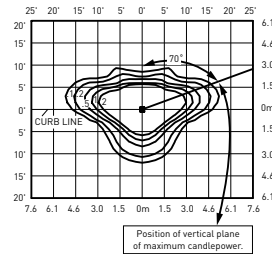
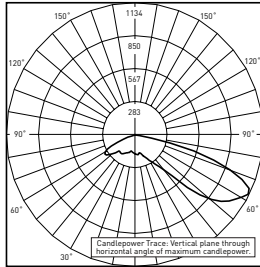
³ In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip)



Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: <http://lighting.cree.com/products/outdoor/bollards-and-pathway/cree-edge-pathway>

2M



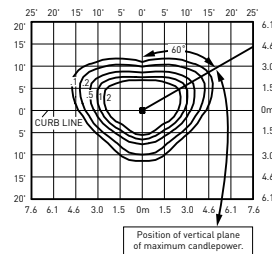
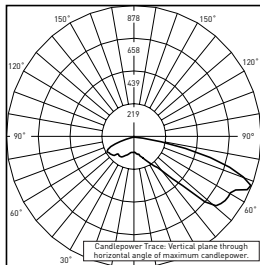
Type II Medium Distribution

| LED Count (x9) | 4000K | | 5700K | |
|-------------------|---------------------------------|----------------------------------|---------------------------------|----------------------------------|
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 02 | 1,565 | B1 U0 G1 | 1,625 | B1 U0 G1 |
| 525mA | | | | |
| 02 | 2,191 | B1 U0 G1 | 2,276 | B1 U0 G1 |

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf

3M



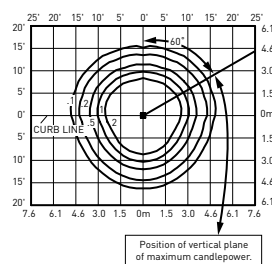
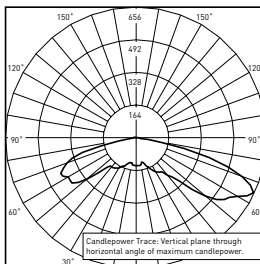
Type III Medium Distribution

| LED Count (x9) | 4000K | | 5700K | |
|-------------------|---------------------------------|----------------------------------|---------------------------------|----------------------------------|
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 02 | 1,389 | B1 U0 G1 | 1,442 | B1 U0 G1 |
| 525mA | | | | |
| 02 | 1,944 | B1 U0 G1 | 2,019 | B1 U0 G1 |

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf

5M



Type V Medium Distribution

| LED Count (x9) | 4000K | | 5700K | |
|-------------------|---------------------------------|----------------------------------|---------------------------------|----------------------------------|
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 02 | 1,666 | B1 U2 G1 | 1,730 | B1 U2 G1 |
| 525mA | | | | |
| 02 | 2,333 | B2 U2 G2 | 2,422 | B2 U2 G2 |

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

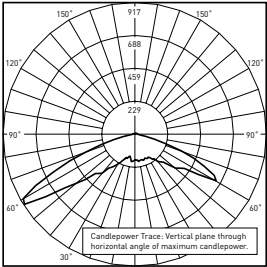
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf



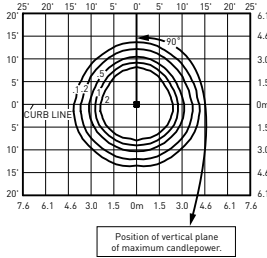
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: <http://lighting.cree.com/products/outdoor/bollards-and-pathway/cree-edge-pathway>

55



RESTL Test Report #: PL5759-001
PWY-EDG-5S-**-02-E-UL-350-40K
Initial Delivered Lumens: 1,897

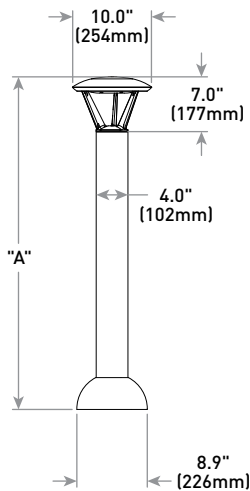


PWY-EDG-5S-**-02-E-UL-350-40K
Mounting Height: 3' (0.9m) A.F.G.
Initial Delivered Lumens: 1,868
Initial FC at grade

| Type V Short Distribution | | | | |
|---------------------------|---------------------------|----------------------------|---------------------------|----------------------------|
| LED Count (x9) | 4000K | | 5700K | |
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 02 | 1,868 | B1 U2 G1 | 1,940 | B1 U2 G1 |
| 525mA | | | | |
| 02 | 2,615 | B1 U2 G1 | 2,716 | B1 U2 G1 |

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf

with Welded Base



| Model | Dim. "A" | Weight* |
|-----------------|--------------|-------------------|
| Pathway (P3) | 36" (914mm) | 17.9 lbs. (8.1kg) |
| Pathway (P4) | 42" (1068mm) | 18.6 lbs. (8.4kg) |
| Pedestrian (P8) | 96" (2438mm) | 28.4 lbs (12.9kg) |

* Add 4.5 lbs. (2.0kg) for 347-480V

DESCRIPTION

4 inch LED recessed narrow, medium, or wide beam downlight designed for glare free even illumination. Featuring a two-stage diffused reflector system producing smooth distribution with excellent light control and low aperture brightness. Lumen packages range from 1000 to 4000 with color temperatures of 2400K, 2700K, 3000K, 3500K, 4000K, and 5000K. Available with dim-to-warm technology – similar to halogen at full power, the 3000K LED warms smoothly as dimmed to 1850K creating a rich warm glow within the space.

SPECIFICATION FEATURES

Lower Shielding Reflector

Painted die cast aluminum or spun aluminum lower reflector with a lensed upper optical chamber providing superior lumen output with minimal source brightness. Spun reflectors are offered in all Portfolio Alzak® finishes. Available with non-conductive polymer trim. Reflector is retained with two torsion springs holding the flange tight to the finished ceiling surface. Plaster lathing ring accessory offered for flush reflector transition.

Plaster Frame / Collar

Die cast aluminum 1-1/2" deep collar accommodates ceiling materials up to 2". Universal mounting bracket accepts 1/2" EMT, C channel and bar hangers and adjusts 5" vertically from above and below the ceiling.

Junction Box

Listed for (8) #12 AWG (four in, four out) 90°C conductors and feed thru branch wiring. (4) 1/2" and (2) 3/4" trade size pry outs positioned to allow straight conduit runs. Lever connectors for simple push in wiring.

Thermal

Aluminum heat sink conducts heat away from the LED module for optimal performance and long life.

LED

Chip on board with a multitude of highly efficient white LED's, combined with a high reflectance upper reflector and convex transitional lens produce even distribution with no pixilation. Rated for 50,000 hours at 70% lumen maintenance. Auto resetting, thermally protected, LED's are turned off when safe operating temperatures are exceeded. Color variation within 3-step MacAdam ellipses. Quick disconnect allows for tool-less replacement of LED engine from below ceiling. Available in 80, 90 or 97 CRI. D2W™ – dim-to-warm shifts CCT from 3000K to 1850K as fixture dims mimicking halogen sources.

Driver

Standard 120-277V 0-10V dimming driver provides flicker free dimming from 100% to 1%. Optional 120V leading edge, <1% 0-10V, Fifth Light, DMX or Lutron® Ecosystem. Driver can be serviced from above or through the aperture.

Connected Lighting Systems

WaveLinx tilemount daylight sensor includes control module, sensor and cable allowing use with the comprehensive lighting system.

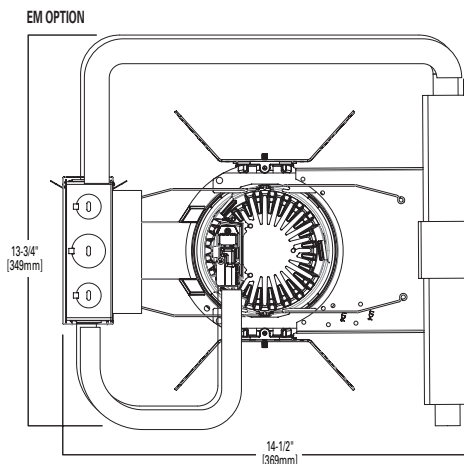
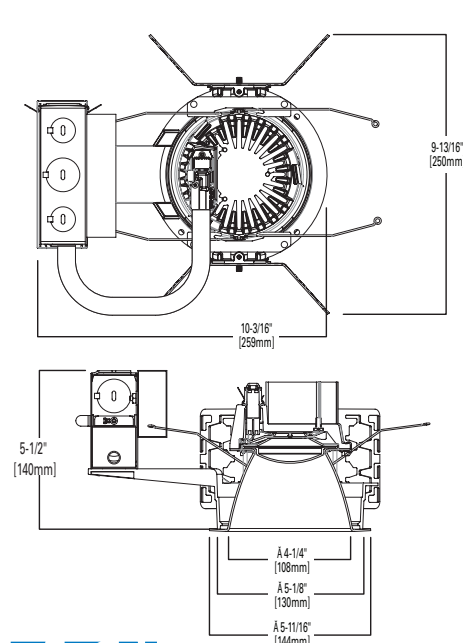
LumaWatt Pro (powered by Enlighted) wireless tile mount sensor and relay accessory enables wireless control using a tile mount sensor accessory.

Code Compliance

Thermally protected and cULus listed for wet locations with covered ceiling. IP66 rated when used with IP66 gasket kit accessory. Optional City of Chicago environmental air (CCEA) marking for plenum applications. EMI/RFI emissions per FCC 47CFR Part 18 Class B consumer limits. 2000 lumen and above are Non-IC rated - Insulation must be kept 3" from top and sides of housing. IC rated up to 1500 lumens. RoHS Compliant. Photometric testing completed in accordance with IES LM 79 and TM-30 standards. LED life testing completed in accordance with LM 80 standards.

Warranty

5-year warranty



| | 1000-2000 LUMENS |
|---------------|------------------|
| NARROW/MEDIUM | 5-1/2" [140mm] |
| WIDE | 5-1/2" [140mm] |
| SHALLOW /TRIM | 5-1/2" [140mm] |

| Catalog # | Type |
|-------------|------|
| Project | |
| Comments | Date |
| Prepared by | |



**LD4B EU4B
4LBW 4LBM
4LBN**

1000, 1500, 2000, 3000, 4000

Lumens LED

Narrow, Medium, or Wide Beam

New Construction

D2W™



Refer to ENERGY STAR® Qualified Products List. Can be used to comply with California Title 24 High Efficacy requirements.

SAMPLE NUMBER: LD4B15D010IEMBOD

| Housing | Lumens ¹ | Voltage | Driver | Options |
|--|--|------------------------|--|---|
| LD4B =LED Downlight 4" Nominal Aperture LD4BCP =LED Downlight 4" Nominal Aperture, Chicago Plenum | 10 =1000 lumens 15 =1500 lumens 20 =2000 lumens 30 =3000 lumens 40 =4000 lumens | Blank =120-277V | 1000 - 4000 Lumen D010 =0-10V Dimming, 1% to 100%, 120V-277V D010TR =0-10V or Line Voltage Dimming, 5% to 100%, 120V-277V DE010 =0-10V Dimming, 0% to 100%, 120V-277V D5LT =Fifth Light® (DALI) Dimming, 0% to 100%, 120V-277V DMX =DMX Dimming, 0% to 100%, 120V-277V ¹³ DL2 =Lutron® Hi-Lume Forward Phase Dimming, 1% to 100%, 120V Only DL3 =Lutron® Hi-Lume 3 Wire Dimming, 1% to 100%, 120V-277V DLE =Lutron Ecosystem dimming 1% to 100%, 120V-277V | EMBOD =Bodine® Emergency Module with Remote Test Switch ³ EM7 =7W Emergency Module with Remote Test Switch ^{3,4} EM14 =14W Emergency Module with Remote Test Switch ^{3,4} IEMBOD =Bodine® Emergency Module with Integral Test Switch ³ IEM7 =7W Emergency Module with Integral Test Switch ^{3,4} IEM14 =14W Emergency Module with Integral Test Switch ^{3,4} |

SAMPLE NUMBER: EU4B10208035

| Power Module | Lumen Levels ¹ | CRI | Color | | |
|------------------------------|---|---|---|---|---|
| EU4B=4" Universal LED Module | 1020 =1000, 1500, 2000 lumens 3040 =3000-4000 lumens 1015IC =1000, 1500 lumen IC rated | 80 =80 CRI Minimum 90 =90 CRI Minimum 97 =97 CRI Minimum | 80 CRI 27 =2700K 30 =3000K 35 =3500K 40 =4000K 50 =5000K | 90 CRI 24 =2400K 27 =2700K 30 =3000K 35 =3500K 40 =4000K 50 =5000K | 97 CRI 27 =2700K 30 =3000K |
| | Dim 2 Warm 109030D2W =1000 lumen, 90 CRI, Dim 2 Warm 159030D2W =1500 lumen, 90 CRI, Dim 2 Warm 209030D2W =2000 lumen, 90 CRI, Dim 2 Warm | | | | |

SAMPLE NUMBER: 4LBM1LIE

| Trim | Distribution ⁵ | Flange | Finish | Options |
|------------|--|---|---|--|
| 4LB=4" LED | N =Narrow (30° Beam), Spun Aluminum M =Medium (50° Beam), Spun Aluminum W =Wide (75° Beam), Spun Aluminum S =Shallow (75° Beam), Spun Aluminum PS =Plastic Shallow (75° Beam), Injection Molded white ¹¹ CS =Cast Shallow (75° Beam), Die Cast Aluminum BA =Baffle, Spun Aluminum ⁷ | 0 =White Polymer Trim Ring 1 =Self-flanged ¹² 2 =White Painted Self-flanged | LI =Specular Clear ¹⁰ H =Semi-Specular Clear ¹⁰ WMH =Warm Haze ¹⁰ WH =Wheat ¹⁰ GPH =Graphite Haze ¹⁰ B =Specular Black ¹⁰ MW =Matte White MB =Matte Black ⁹ MMS =Matte Metallic Silver ⁸ | E =Integral Emergency Test Switch Hole ⁶ |

Accessories

HSA4=Slope Adapter for 4" Aperture Housings, Specify Slope in 5° increments
TRM4=Metal Trim Ring, Specify Color²
TRR4=Rimless Trim Ring²
LGSKT4IP66=IP66 Gasket Kit
PRR4=Rimless Plaster Ring for Flush Mount²
Bar Hangers
HB26=C-channel Bar Hanger, 26" Long, Pair
HB50=C-channel Bar Hanger, 50" Long, Pair
RMB22=Wood Joist Bar Hanger, 22" Long, Pair
Transformers
H347=347 to 120V Step Down Transformer, 75VA
H347200=347 to 120V Step Down Transformer, 200VA
Connected Lighting Systems
PORLWTPD1=LumaWatt Pro wireless sensor kit (0-10V only)
TMSWPD1=WaveLinx tilemount daylight sensor (includes control module, sensor, cable and tile mount)

Notes:

- Nominal Lumens will vary depending on selected color, driver and reflector finish.
- Order spun trim with polymer trim ring or die cast with rimless flange (Consult specification sheet for color ordering information and options).
- Not available with Chicago Plenum.
- ULus approved only.
- Beam angles are nominal with LI finish trims.
- Only available with Narrow and Medium Spun Aluminum trims. Required for use with all IEMBOD, IEM7, and IEM14 housings.
- Only available with Matte White and Matte Black Finishes.
- Only available on CS distribution.
- Available only on BA and CS distributions.
- Not available on PS, CS or BA distributions.
- Matte white and self flanged only
- Flange is same finish as the reflector.
- DMX fixtures default to full on upon loss of DMX signal.

ENERGY

| ENERGY DATA |
|--|
| Sound Rating: Class A standards |
| (Values at non-dimming line voltage) |
| Minimum Starting Temperature: -30°C (-22°F) |
| EMI/RFI: FCC Title 47 CFR, Part 15, Class B (Consumer) |
| Input Voltage: UNV (120V - 277V) |
| Power Factor: >0.90 (at nominal input 120-277 VAC & 100% of Rated Output Power) |
| Input Frequency: 50/60Hz |

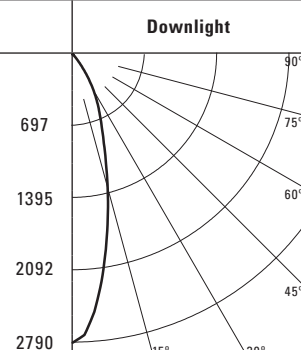
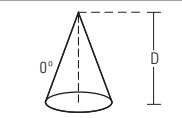
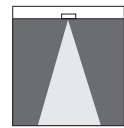
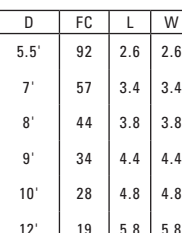
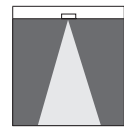
| 1000 Lumen D010 | | 1500 Lumen D010 | |
|---------------------------|---------------------------|---------------------------|---------------------------|
| Input Power: 11W | THD: <14% | Input Power: 15.5W | THD: <13% |
| 120V Input Current: 0.09A | 277V Input Current: 0.04A | 120V Input Current: 0.13A | 277V Input Current: 0.06A |

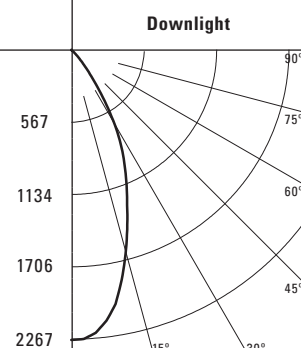
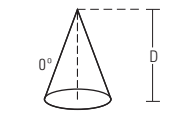

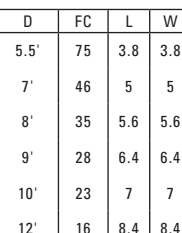
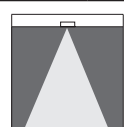
| 2000 Lumen D010 | | 3000 Lumen D010 | |
|---------------------------|---------------------------|---------------------------|---------------------------|
| Input Power: 21.2W | THD: <9% | Input Power: 27.6W | THD: <10% |
| 120V Input Current: 0.18A | 277V Input Current: 0.08A | 120V Input Current: 0.23A | 277V Input Current: 0.10A |

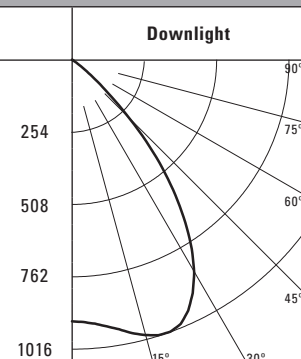
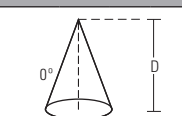

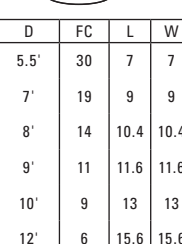
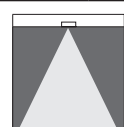
| 4000 Lumen D010 | |
|---------------------------|---------------------------|
| Input Power: 41.6W | THD: <13% |
| 120V Input Current: 0.35A | 277V Input Current: 0.15A |

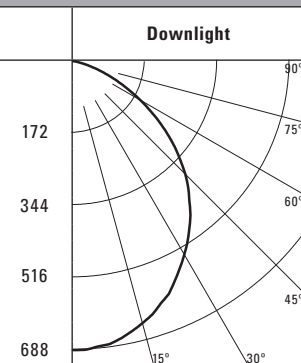
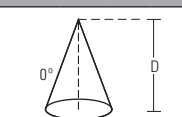
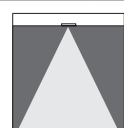
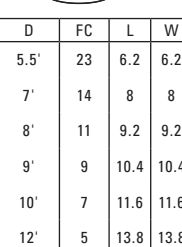
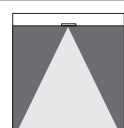
| Lumens | 120V | | 277V | |
|-----------------|------------|---------------|------------|---------------|
| | Inrush (A) | Duration (ms) | Inrush (A) | Duration (ms) |
| 1000 Lumen D010 | 1.02 | 0.041 | 2.18 | 0.021 |
| 1500 Lumen D010 | 1.02 | 0.042 | 2.24 | 0.064 |
| 2000 Lumen D010 | 1.02 | 0.077 | 2.43 | 0.027 |
| 3000 Lumen D010 | 1.15 | 0.067 | 3.26 | 0.027 |
| 4000 Lumen D010 | 1.2 | 0.088 | 3.9 | 0.03 |

PHOTOMETRY

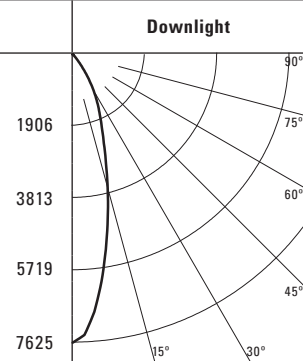
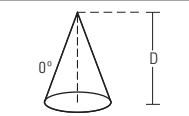
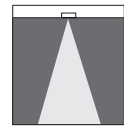
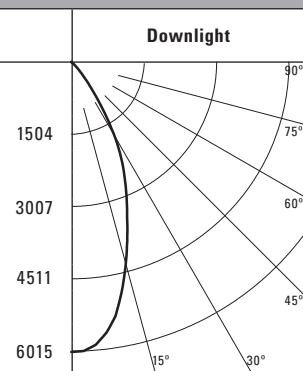
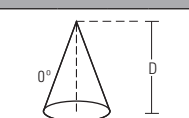
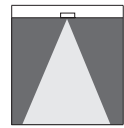
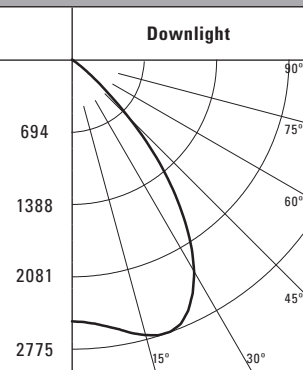
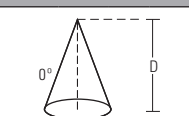
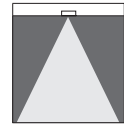
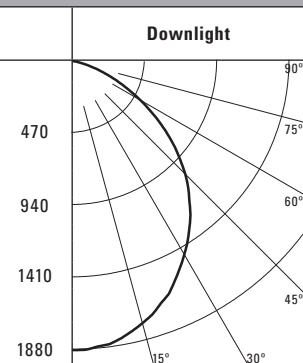
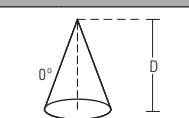
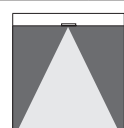
| NARROW (30° BEAM) | | CANDLEPOWER DISTRIBUTION | | CONE OF LIGHT | | CANDELA TABLE | | ZONAL LUMEN SUMMARY | | | LUMINANCE | | | | | |
|---|--------------|---|--|---|--|------------------|---------|---------------------|--------|-----------|-------------------------|----------------------|--|--|--|--|
| Test Number | P201208 |  | |  | | Degrees Vertical | Candela | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance | | | | |
| Housing | LD4B15D010 | | | | | 0 | 2790 | 0-30 | 926 | 82.1 | 45 | 489 | | | | |
| Module | EU4B10208035 | | | | | 5 | 2550 | 0-40 | 1094 | 97 | 55 | 55 | | | | |
| Trim | 4LBN1LI | | | | | 15 | 1421 | 0-60 | 1127 | 99.9 | 65 | 26 | | | | |
| Lumens | 1128 | | | | | 25 | 667 | 0-90 | 1128 | 100 | 75 | 0 | | | | |
| Efficacy | 78.9 Lm/W |  | |  | | 35 | 266 | 90-180 | 0 | 0 | 85 | 0 | | | | |
| SC | 0.5 | | | | | 45 | 32 | 0-180 | 1128 | 100 | | | | | | |
|  | | | | | | 55 | 3 | | | | | | | | | |
| | | | | | | 65 | 1 | | | | | | | | | |
| | | | | | | 75 | 0 | | | | | | | | | |
| | | | | | | 85 | 0 | | | | | | | | | |
| | | | | | | 90 | 0 | | | | | | | | | |

| MEDIUM (50° BEAM) | | CANDLEPOWER DISTRIBUTION | | CONE OF LIGHT | | CANDELA TABLE | | ZONAL LUMEN SUMMARY | | | LUMINANCE | | | | |
|---|--------------|---|--|---|--|------------------|---------|---------------------|--------|-----------|-------------------------|----------------------|--|--|--|
| Test Number | P201206 |  | |  | | Degrees Vertical | Candela | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance | | | |
| Housing | LD4B15D010 | | | | | 0 | 2267 | 0-30 | 1144 | 77.3 | 45 | 1072 | | | |
| Module | EU4B10208035 | | | | | 5 | 2227 | 0-40 | 1406 | 95 | 55 | 151 | | | |
| Trim | 4LBM1LI | | | | | 15 | 1690 | 0-60 | 1477 | 99.7 | 65 | 77 | | | |
| Lumens | 1481 | | | | | 25 | 1027 | 0-90 | 1481 | 100 | 75 | 42 | | | |
| Efficacy | 103.6 Lm/W |  | |  | | 35 | 409 | 90-180 | 0 | 0 | 85 | 0 | | | |
| SC | 0.71 | | | | | 45 | 70 | 0-180 | 1481 | 100 | | | | | |
|  | | | | | | 55 | 8 | | | | | | | | |
| | | | | | | 65 | 3 | | | | | | | | |
| | | | | | | 75 | 1 | | | | | | | | |
| | | | | | | 85 | 0 | | | | | | | | |
| | | | | | | 90 | 0 | | | | | | | | |

| WIDE (75° BEAM) | | CANDLEPOWER DISTRIBUTION | | CONE OF LIGHT | | CANDELA TABLE | | ZONAL LUMEN SUMMARY | | | LUMINANCE | | | | |
|---|--------------|---|--|---|--|------------------|---------|---------------------|--------|-----------|-------------------------|----------------------|--|--|--|
| Test Number | P201204 |  | |  | | Degrees Vertical | Candela | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance | | | |
| Housing | LD4B15D010 | | | | | 0 | 914 | 0-30 | 816 | 53.8 | 45 | 4372 | | | |
| Module | EU4B10208035 | | | | | 5 | 925 | 0-40 | 1252 | 82.5 | 55 | 574 | | | |
| Trim | 4LBW1LI | | | | | 15 | 998 | 0-60 | 1513 | 99.7 | 65 | 100 | | | |
| Lumens | 1518 | | | | | 25 | 977 | 0-90 | 1518 | 100 | 75 | 42 | | | |
| Efficacy | 106.2 Lm/W |  | |  | | 35 | 707 | 90-180 | 0 | 0 | 85 | 0 | | | |
| SC | 1.3 | | | | | 45 | 286 | 0-180 | 1518 | 100 | | | | | |
|  | | | | | | 55 | 30 | | | | | | | | |
| | | | | | | 65 | 4 | | | | | | | | |
| | | | | | | 75 | 1 | | | | | | | | |
| | | | | | | 85 | 0 | | | | | | | | |
| | | | | | | 90 | 0 | | | | | | | | |

| SHALLOW (75° BEAM) | | CANDLEPOWER DISTRIBUTION | | CONE OF LIGHT | | CANDELA TABLE | | ZONAL LUMEN SUMMARY | | | LUMINANCE | | | | |
|---|--------------|---|--|---|--|------------------|---------|---------------------|--------|-----------|-------------------------|----------------------|--|--|--|
| Test Number | P201210 |  | |  | | Degrees Vertical | Candela | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance | | | |
| Housing | LD4B15D010 | | | | | 0 | 688 | 0-30 | 512 | 34.2 | 45 | 5827 | | | |
| Module | EU4B10208035 | | | | | 5 | 682 | 0-40 | 816 | 54.5 | 55 | 4771 | | | |
| Trim | 4LBCS1MMS | | | | | 15 | 645 | 0-60 | 1333 | 89 | 65 | 3226 | | | |
| Lumens | 1497 | | | | | 25 | 577 | 0-90 | 1497 | 100 | 75 | 1339 | | | |
| Efficacy | 104.7 Lm/W |  | |  | | 35 | 486 | 90-180 | 0 | 0 | 85 | 124 | | | |
| SC | 1.16 | | | | | 45 | 380 | 0-180 | 1497 | 100 | | | | | |
|  | | | | | | 55 | 253 | | | | | | | | |
| | | | | | | 65 | 126 | | | | | | | | |
| | | | | | | 75 | 32 | | | | | | | | |
| | | | | | | 85 | 1 | | | | | | | | |
| | | | | | | 90 | 0 | | | | | | | | |

PHOTOMETRY

| NARROW (25° BEAM) | | CANDLEPOWER DISTRIBUTION | | CONE OF LIGHT | | CANDELA TABLE | | ZONAL LUMEN SUMMARY | | | LUMINANCE | | | |
|-------------------|--------------|---|--|---|--|---|---------|---------------------|---------|-----------|-------------------------|----------------------|-------------------------|----------------------|
| Test Number | PP201209 |  | |  | | Degrees Vertical | Canдела | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance | | |
| Housing | LD4B40D010 | | | | | 0 | 7625 | 0-30 | 2531 | 82.1 | 45 | 1337 | | |
| Module | EU4B30408035 | | | | | 5 | 6969 | 0-40 | 2989 | 97 | 55 | 149 | | |
| Trim | 4LBN1LI | | | | | 15 | 3883 | 0-60 | 3080 | 99.9 | 65 | 67 | | |
| Lumens | 3083 | | | | | 25 | 1822 | 0-90 | 3083 | 100 | 75 | 0 | | |
| Efficacy | 73.8 Lm/W | | | | | 35 | 727 | 90-180 | 0 | 0 | 85 | 0 | | |
| SC | 0.5 |  | |  | |  | | Degrees Vertical | Canдела | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance |
| Housing | LD4B40D010 | | | | | | | 0 | 6015 | 0-30 | 3036 | 77.3 | 45 | 2844 |
| Module | EU4B30408035 | | | | | | | 5 | 5909 | 0-40 | 3731 | 95 | 55 | 400 |
| Trim | 4LBM1LI | | | | | | | 15 | 4484 | 0-60 | 3918 | 99.7 | 65 | 205 |
| Lumens | 3929 | | | | | | | 25 | 2725 | 0-90 | 3929 | 100 | 75 | 113 |
| Efficacy | 94 Lm/W | | | | | | | 35 | 186 | 90-180 | 0 | 0 | 85 | 0 |
| SC | 0.71 |  | |  | |  | | Degrees Vertical | Canдела | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance |
| Housing | LD4B40D010 | | | | | | | 0 | 2499 | 0-30 | 2230 | 53.8 | 45 | 11948 |
| Module | EU4B30408035 | | | | | | | 5 | 2528 | 0-40 | 3421 | 82.5 | 55 | 1569 |
| Trim | 4LBW1LI | | | | | | | 15 | 2727 | 0-60 | 4134 | 99.7 | 65 | 274 |
| Lumens | 4148 | | | | | | | 25 | 2670 | 0-90 | 4148 | 100 | 75 | 113 |
| Efficacy | 99.2 Lm/W | | | | | | | 35 | 1933 | 90-180 | 0 | 0 | 85 | 0 |
| SC | 1.3 |  | |  | |  | | Degrees Vertical | Canдела | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance |
| Housing | LD4B40D010 | | | | | | | 0 | 1880 | 0-30 | 1400 | 34.2 | 45 | 15933 |
| Module | EU4B30508035 | | | | | | | 5 | 1864 | 0-40 | 2230 | 54.5 | 55 | 13046 |
| Trim | 4LBCS1MMS | | | | | | | 15 | 1763 | 0-60 | 3645 | 89 | 65 | 8819 |
| Lumens | 4093 | | | | | | | 25 | 1578 | 0-90 | 4093 | 100 | 75 | 3657 |
| Efficacy | 97.9 Lm/W | | | | | | | 35 | 1329 | 90-180 | 0 | 0 | 85 | 323 |
| SC | 1.16 |  | | | | | | Degrees Vertical | Canдела | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance |
| Housing | LD4B40D010 | | | | | | | 0 | 1880 | 0-30 | 1400 | 34.2 | 45 | 15933 |
| Module | EU4B30508035 | | | | | | | 5 | 1864 | 0-40 | 2230 | 54.5 | 55 | 13046 |
| Trim | 4LBCS1MMS | | | | | | | 15 | 1763 | 0-60 | 3645 | 89 | 65 | 8819 |
| Lumens | 4093 | | | | | | | 25 | 1578 | 0-90 | 4093 | 100 | 75 | 3657 |
| Efficacy | 97.9 Lm/W | | | | | | | 35 | 1329 | 90-180 | 0 | 0 | 85 | 323 |
| SC | 1.16 | | | | | | | Degrees Vertical | Canдела | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance |
| Housing | LD4B40D010 | | | | | | | 0 | 1880 | 0-30 | 1400 | 34.2 | 45 | 15933 |
| Module | EU4B30508035 | | | | | | | 5 | 1864 | 0-40 | 2230 | 54.5 | 55 | 13046 |
| Trim | 4LBCS1MMS | | | | | | | 15 | 1763 | 0-60 | 3645 | 89 | 65 | 8819 |
| Lumens | 4093 | | | | | | | 25 | 1578 | 0-90 | 4093 | 100 | 75 | 3657 |
| Efficacy | 97.9 Lm/W | | | | | | | 35 | 1329 | 90-180 | 0 | 0 | 85 | 323 |
| SC | 1.16 | | | | | | | Degrees Vertical | Canдела | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance |
| Housing | LD4B40D010 | | | | | | | 0 | 1880 | 0-30 | 1400 | 34.2 | 45 | 15933 |
| Module | EU4B30508035 | | | | | | | 5 | 1864 | 0-40 | 2230 | 54.5 | 55 | 13046 |
| Trim | 4LBCS1MMS | | | | | | | 15 | 1763 | 0-60 | 3645 | 89 | 65 | 8819 |
| Lumens | 4093 | | | | | | | 25 | 1578 | 0-90 | 4093 | 100 | 75 | 3657 |
| Efficacy | 97.9 Lm/W | | | | | | | 35 | 1329 | 90-180 | 0 | 0 | 85 | 323 |
| SC | 1.16 | | | | | | | Degrees Vertical | Canдела | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance |
| Housing | LD4B40D010 | | | | | | | 0 | 1880 | 0-30 | 1400 | 34.2 | 45 | 15933 |
| Module | EU4B30508035 | | | | | | | 5 | 1864 | 0-40 | 2230 | 54.5 | 55 | 13046 |
| Trim | 4LBCS1MMS | | | | | | | 15 | 1763 | 0-60 | 3645 | 89 | 65 | 8819 |
| Lumens | 4093 | | | | | | | 25 | 1578 | 0-90 | 4093 | 100 | 75 | 3657 |
| Efficacy | 97.9 Lm/W | | | | | | | 35 | 1329 | 90-180 | 0 | 0 | 85 | 323 |
| SC | 1.16 | | | | | | | Degrees Vertical | Canдела | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance |
| Housing | LD4B40D010 | | | | | | | 0 | 1880 | 0-30 | 1400 | 34.2 | 45 | 15933 |
| Module | EU4B30508035 | | | | | | | 5 | 1864 | 0-40 | 2230 | 54.5 | 55 | 13046 |
| Trim | 4LBCS1MMS | | | | | | | 15 | 1763 | 0-60 | 3645 | 89 | 65 | 8819 |
| Lumens | 4093 | | | | | | | 25 | 1578 | 0-90 | 4093 | 100 | 75 | 3657 |
| Efficacy | 97.9 Lm/W | | | | | | | 35 | 1329 | 90-180 | 0 | 0 | 85 | 323 |
| SC | 1.16 | | | | | | | Degrees Vertical | Canдела | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance |
| Housing | LD4B40D010 | | | | | | | 0 | 1880 | 0-30 | 1400 | 34.2 | 45 | 15933 |
| Module | EU4B30508035 | | | | | | | 5 | 1864 | 0-40 | 2230 | 54.5 | 55 | 13046 |
| Trim | 4LBCS1MMS | | | | | | | 15 | 1763 | 0-60 | 3645 | 89 | 65 | 8819 |
| Lumens | 4093 | | | | | | | 25 | 1578 | 0-90 | 4093 | 100 | 75 | 3657 |
| Efficacy | 97.9 Lm/W | | | | | | | 35 | 1329 | 90-180 | 0 | 0 | 85 | 323 |
| SC | 1.16 | | | | | | | Degrees Vertical | Canдела | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance |
| Housing | LD4B40D010 | | | | | | | 0 | 1880 | 0-30 | 1400 | 34.2 | 45 | 15933 |
| Module | EU4B30508035 | | | | | | | 5 | 1864 | 0-40 | 2230 | 54.5 | 55 | 13046 |
| Trim | 4LBCS1MMS | | | | | | | 15 | 1763 | 0-60 | 3645 | 89 | 65 | 8819 |
| Lumens | 4093 | | | | | | | 25 | 1578 | 0-90 | 4093 | 100 | 75 | 3657 |
| Efficacy | 97.9 Lm/W | | | | | | | 35 | 1329 | 90-180 | 0 | 0 | 85 | 323 |
| SC | 1.16 | | | | | | | Degrees Vertical | Canдела | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance |
| Housing | LD4B40D010 | | | | | | | 0 | 1880 | 0-30 | 1400 | 34.2 | 45 | 15933 |
| Module | EU4B30508035 | | | | | | | 5 | 1864 | 0-40 | 2230 | 54.5 | 55 | 13046 |
| Trim | 4LBCS1MMS | | | | | | | 15 | 1763 | 0-60 | 3645 | 89 | 65 | 8819 |
| Lumens | 4093 | | | | | | | 25 | 1578 | 0-90 | 4093 | 100 | 75 | 3657 |
| Efficacy | 97.9 Lm/W | | | | | | | 35 | 1329 | 90-180 | 0 | 0 | 85 | 323 |
| SC | 1.16 | | | | | | | Degrees Vertical | Canдела | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance |
| Housing | LD4B40D010 | | | | | | | 0 | 1880 | 0-30 | 1400 | 34.2 | 45 | 15933 |
| Module | EU4B30508035 | | | | | | | 5 | 1864 | 0-40 | 2230 | 54.5 | 55 | 13046 |
| Trim | 4LBCS1MMS | | | | | | | 15 | 1763 | 0-60 | 3645 | 89 | 65 | 8819 |
| Lumens | 4093 | | | | | | | 25 | 1578 | 0-90 | 4093 | 100 | 75 | 3657 |
| Efficacy | 97.9 Lm/W | | | | | | | 35 | 1329 | 90-180 | 0 | 0 | 85 | 323 |
| SC | 1.16 | | | | | | | Degrees Vertical | Canдела | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance |
| Housing | LD4B40D010 | | | | | | | 0 | 1880 | 0-30 | 1400 | 34.2 | 45 | 15933 |
| Module | EU4B30508035 | | | | | | | 5 | 1864 | 0-40 | 2230 | 54.5 | 55 | 13046 |
| Trim | 4LBCS1MMS | | | | | | | 15 | 1763 | 0-60 | 3645 | 89 | 65 | 8819 |
| Lumens | 4093 | | | | | | | 25 | 1578 | 0-90 | 4093 | 100 | 75 | 3657 |
| Efficacy | 97.9 Lm/W | | | | | | | 35 | 1329 | 90-180 | 0 | 0 | 85 | 323 |
| SC | 1.16 | | | | | | | Degrees Vertical | Canдела | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance |
| Housing | LD4B40D010 | | | | | | | 0 | 1880 | 0-30 | 1400 | 34.2 | 45 | 15933 |
| Module | EU4B30508035 | | | | | | | 5 | 1864 | 0-40 | 2230 | 54.5 | 55 | 13046 |
| Trim | 4LBCS1MMS | | | | | | | 15 | 1763 | 0-60 | 3645 | 89 | 65 | 8819 |
| Lumens | 4093 | | | | | | | 25 | 1578 | 0-90 | 4093 | 100 | 75 | 3657 |
| Efficacy | 97.9 Lm/W | | | | | | | 35 | 1329 | 90-180 | 0 | 0 | 85 | 323 |
| SC | 1.16 | | | | | | | Degrees Vertical | Canдела | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance |
| Housing | LD4B40D010 | | | | | | | 0 | 1880 | 0-30 | 1400 | 34.2 | 45 | 15933 |
| Module | EU4B30508035 | | | | | | | 5 | 1864 | 0-40 | 2230 | 54.5 | 55 | 13046 |
| Trim | 4LBCS1MMS | | | | | | | 15 | 1763 | 0-60 | 3645 | 89 | 65 | 8819 |
| Lumens | 4093 | | | | | | | 25 | 1578 | 0-90 | 4093 | 100 | 75 | 3657 |
| Efficacy | 97.9 Lm/W | | | | | | | 35 | 1329 | 90-180 | 0 | 0 | 85 | 323 |
| SC | 1.16 | | | | | | | Degrees Vertical | Canдела | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance |
| Housing | LD4B40D010 | | | | | | | 0 | 1880 | 0-30 | 1400 | 34.2 | 45 | 15933 |
| Module | EU4B30508035 | | | | | | | 5 | 1864 | 0-40 | 2230 | 54.5 | 55 | 13046 |
| Trim | 4LBCS1MMS | | | | | | | 15 | 1763 | 0-60 | 3645 | 89 | 65 | 8819 |
| Lumens | 4093 | | | | | | | 25 | 1578 | 0-90 | 4093 | 100 | 75 | 3657 |
| Efficacy | 97.9 Lm/W | | | | | | | 35 | 1329 | 90-180 | 0 | 0 | 85 | 323 |
| SC | 1.16 | | | | | | | Degrees Vertical | Canдела | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance |
| Housing | LD4B40D010 | | | | | | | 0 | 1880 | 0-30 | 1400 | 34.2 | 45 | 15933 |
| Module | EU4B30508035 | | | | | | | 5 | 1864 | 0-40 | 2230 | 54.5 | 55 | 13046 |
| Trim | 4LBCS1MMS | | | | | | | 15 | 1763 | 0-60 | 3645 | 89 | 65 | 8819 |
| Lumens | 4093 | | | | | | | 25 | 1578 | 0-90 | 4093 | 100 | 75 | 3657 |
| Efficacy | 97.9 Lm/W | | | | | | | 35 | 1329 | 90-180 | 0 | 0 | 85 | 323 |
| SC | 1.16 | | | | | | | Degrees Vertical | Canдела | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance |
| Housing | LD4B40D010 | | | | | | | 0 | 1880 | 0-30 | 1400 | 34.2 | 45 | 15933 |
| Module | EU4B30508035 | | | | | | | 5 | 1864 | 0-40 | 2230 | 54.5 | 55 | 13046 |
| Trim | 4LBCS1MMS | | | | | | | 15 | 1763 | 0-60 | 3645 | 89 | 65 | 8819 |
| Lumens | 4093 | | | | | | | 25 | 1578 | 0-90 | 4093 | 100 | 75 | 3657 |
| Efficacy | 97.9 Lm/W | | | | | | | 35 | 1329 | 90-180 | 0 | 0 | 85 | 323 |
| SC | 1.16 | | | | | | | Degrees Vertical | Canдела | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance |
| Housing | LD4B40D010 | | | | | | | 0 | 1880 | 0-30 | 1400 | 34.2 | 45 | 15933 |
| Module | EU4B30508035 | | | | | | | 5 | 1864 | 0-40 | 2230 | 54.5 | 55 | 13046 |
| Trim | 4LBCS1MMS | | | | | | | 15 | 1763 | 0-60 | 3645 | 89 | 65 | 8819 |
| Lumens | 4093 | | | | | | | 25 | 1578 | 0-90 | 4093 | 100 | 75 | 3657 |
| Efficacy | 97.9 Lm/W | | | | | | | 35 | 1329 | 90-180 | 0 | 0 | 85 | 323 |
| SC | 1.16 | | | | | | | Degrees Vertical | Canдела | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance |
| Housing | LD4B40D010 | | | | | | | 0 | 1880 | 0-30 | 1400 | 34.2 | 45 | 15933 |
| Module | EU4B30508035 | | | | | | | 5 | 1864 | 0-40 | 2230 | 54.5 | 55 | 13046 |
| Trim | 4LBCS1MMS | | | | | | | 15 | 1763 | 0-60 | 3645 | 89 | 65 | 8819 |
| Lumens | 4093 | | | | | | | 25 | 1578 | 0-90 | 4093 | 100 | 75 | 3657 |
| Efficacy | 97.9 Lm/W | | | | | | | 35 | 1329 | 90-180 | 0 | 0 | 85 | 323 |
| SC | 1.16 | | | | | | | Degrees Vertical | Canдела | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance |
| Housing | LD4B40D010 | | | | | | | 0 | 1880 | 0-30 | 1400 | 34.2 | 45 | 15933 |
| Module | EU4B30508035 | | | | | | | 5 | 1864 | 0-40 | 2230 | 54.5 | 55 | 13046 |
| Trim | 4LBCS1MMS | | | | | | | 15 | 1763 | 0-60 | 3645 | 89 | 65 | 8819 |
| Lumens | 4093 | | | | | | | 25 | 1578 | 0-90 | 4093 | 100 | 75 | 3657 |
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| SC | 1.16 | | | | | | | Degrees Vertical | Canдела | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance |
| Housing | LD4B40D010 | | | | | | | 0 | 1880 | 0-30 | 1400 | 34.2 | 45 | 15933 |
| Module | EU4B30508035 | | | | | | | 5 | 1864 | 0-40 | 2230 | 54.5 | 55 | 13046 |
| Trim | 4LBCS1MMS | | | | | | | 15 | 1763 | 0-60 | 3645 | 89 | 65 | 8819 |
| Lumens | 4093 | | | | | | | 25 | 1578 | 0-90 | 4093 | 100 | 75 | 3657 |
| Efficacy | 97.9 Lm/W | | | | | | | 35 | 1329 | 90-180 | 0 | 0 | 85 | 323 |
| SC | 1.16 | | | | | | | | | | | | | |

DESCRIPTION

6 inch LED recessed narrow, medium, or wide beam downlight designed for glare free even illumination. Featuring a two-stage diffused reflector system producing smooth distribution with excellent light control and low aperture brightness. Lumen packages range from 1000 to 7000 with color temperatures of 2400K, 2700K, 3000K, 3500K, 4000K, and 5000K. Available with dim-to-warm technology – similar to halogen at full power, the 3000K LED warms smoothly as dimmed to 1850K creating a rich warm glow within the space.

SPECIFICATION FEATURES

Lower Shielding Reflector

Painted die cast aluminum or spun aluminum lower reflector with a lensed upper optical chamber providing superior lumen output with minimal source brightness. Spun reflectors are offered in all Portfolio Alzak® finishes. Available with non-conductive polymer trim. Reflector is retained with two torsion springs holding the flange tight to the finished ceiling surface.

Plaster Frame / Collar

Die cast aluminum 1-1/2" deep collar accommodates ceiling materials up to 2". Universal mounting bracket accepts 1/2" EMT, C channel and bar hangers and adjusts 5" vertically from above and below the ceiling.

Junction Box

Listed for (8) #12 AWG (four in, four out) 90°C conductors and feed thru branch wiring. (4) 1/2" and (2) 3/4" trade size pry outs positioned to allow straight conduit runs. Lever connectors for simple push in wiring.

Thermal

Aluminum heat sink conducts heat away from the LED module for optimal performance and long life.

LED

Chip on board with a multitude of highly efficient white LED's, combined with a high reflectance upper reflector and convex transitional lens produce even distribution with no pixilation. Rated for 50,000 hours at 70% lumen maintenance. Auto resetting, thermally protected, LED's are turned off when safe operating temperatures are exceeded. Color variation within 3-step MacAdam ellipses. Quick disconnect allows for tool-less replacement of LED engine from below ceiling. Available in 80, 90 or 97 CRI. D2W™ – dim-to-warm shifts CCT from 3000K to 1850K as fixture dims mimicking halogen sources.

Driver

Standard 120-277V 0-10V dimming driver provides flicker free dimming from 100% to 1% (offered up to 4000 lumens). Optional 120V leading edge, <1% 0-10V, Fifth Light, DMX or Lutron® Ecosystem. Driver can be serviced from above or through the aperture.

Connected Lighting Systems

WaveLinx tilemount daylight sensor includes control module, sensor and cable allowing use with the comprehensive lighting system.

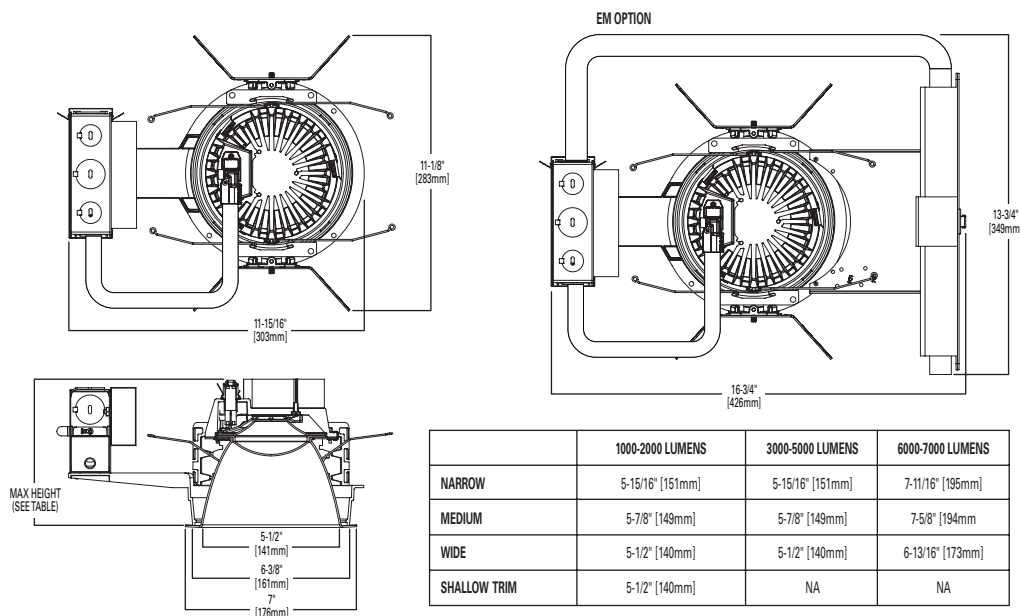
LumaWatt Pro (powered by Enlighted) wireless tile mount sensor and relay accessory enables wireless control using a tile mount sensor accessory.

Code Compliance

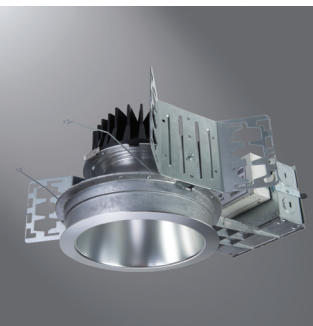
Thermally protected and cULus listed for wet locations with covered ceiling. IP66 rated when used with IP66 gasket kit accessory. Optional City of Chicago environmental air (CEEA) marking for plenum applications. EMI/RFI emissions per FCC 47CFR Part 18 Class B consumer limits. Non-IC rated - Insulation must be kept 3" from top and sides of housing. IC rated up to 1500 lumens. 5000 lumen and above are marked spacing and must follow spacing requirements. RoHS Compliant. Photometric testing completed in accordance with IES LM 79 and TM-30 standards. LED life testing completed in accordance with LM 80 standards.

Warranty

5-year warranty



| Catalog # | | Type |
|-------------|--|------|
| Project | | |
| Comments | | Date |
| Prepared by | | |



**LD6B EU6B
6LBW 6LBM
6LBN**

1000 - 7000 lumens LED

Narrow, Medium, or Wide Beam
New Construction

D2W



Refer to ENERGY STAR® Qualified Products List. Can be used to comply with California Title 24 High Efficacy requirements.

ORDERING INFORMATION

| SAMPLE NUMBER: LD6B15D010EMBOD | | | | |
|--|--|------------------------|---|---|
| Housing | Lumens ¹ | Voltage | Driver | Options |
| LD6B =LED Downlight 6" Nominal Aperture LD6BCP =LED Downlight 6" Nominal Aperture, Chicago Plenum | 10 =1000 lumens 15 =1500 lumens 20 =2000 lumens 30 =3000 lumens 40 =4000 lumens 50 =5000 lumens ¹⁰ 60 =6000 lumens ¹⁰ 70 =7000 lumens ¹⁰ | Blank =120-277V | 1000 - 4000 Lumen D010 =0-10V Dimming, 1% to 100%, 120V-277V D010TR =0-10V or Line Voltage Dimming, 5% to 100%, 120V-277V DE010 =0-10V Dimming, 0% to 100%, 120V-277V D5LT =Fifth Light® (DALI) Dimming, 0% to 100%, 120V-277V DMX =DMX Dimming, 0% to 100%, 120V-277V ¹⁴ DL2 =Lutron® Hi-Lume Forward Phase Dimming, 1% to 100%, 120V Only DL3 =Lutron® Hi-Lume 3 Wire Dimming, 1% to 100%, 120V-277V DLE =Lutron Ecosystem dimming 1% to 100%, 120V-277V 5000, 6000, and 7000 Lumen D010TE =0-10V 1% or Trailing Edge, 10% to 100%, 120V-277V (120V Only for Trailing Edge Dimming) | EMBOD =Bodine® Emergency Module with Remote Test Switch ³ EM7 =7W Emergency Module with Remote Test Switch ^{3, 4} EM14 =14W Emergency Module with Remote Test Switch ^{3, 4} IEMBOD =Bodine® Emergency Module with Integral Test Switch ³ IEM7 =7W Emergency Module with Integral Test Switch ^{3, 4} IEM14 =14W Emergency Module with Integral Test Switch ^{3, 4} |

SAMPLE NUMBER: EU6B10208035

| Power Module | Lumen Levels ¹ | CRI | Color | | |
|--------------------------------------|---|---|---|---|---|
| EU6B =6" Universal LED Module | 1020 =1000, 1500, 2000 lumens 3050 =3000, 4000, 5000 lumens 6070 =6000, 7000 lumens 1015IC =1000, 1500 lumen IC rated | 80 =80 CRI Minimum 90 =90 CRI Minimum 97 =97 CRI Minimum | 80 CRI 27 =2700K 30 =3000K 35 =3500K 40 =4000K 50 =5000K | 90 CRI 24 =2400K 27 =2700K 30 =3000K 35 =3500K 40 =4000K 50 =5000K | 97 CRI 27 =2700K 30 =3000K |
| | <u>Dim 2 Warm</u> 109030D2W =1000 lumen, 90 CRI, Dim 2 Warm 159030D2W =1500 lumen, 90 CRI, Dim 2 Warm 209030D2W =2000 lumen, 90 CRI, Dim 2 Warm | | | | |

SAMPLE NUMBER: 6LBM1LIE

| Trim | Distribution ⁵ | Flange | Finish | Options |
|--------------------|---|---|---|--|
| 6LB =6" LED | N =Narrow (30° Beam), Spun Aluminum M =Medium (50° Beam), Spun Aluminum W =Wide (75° Beam), Spun Aluminum S =Shallow (75° Beam), Spun Aluminum ¹² PS =Plastic Shallow (75° Beam), Injection Molded white ^{11, 12} CS =Cast Shallow (75° Beam), Die Cast Aluminum ¹² BA =Baffle (50° Beam), Spun Aluminum ⁷ | 0 =White Polymer Trim Ring 1 =Self-flanged ¹³ 2 =White Painted Self-flanged | LI =Specular Clear ⁹ H =Semi-Specular Clear ⁹ WMH =Warm Haze ⁹ WH =Wheat ⁹ GPH =Graphite Haze ⁹ B =Specular Black ⁹ MW =Matte White MB =Matte Black ⁸ MMS =Matte Metallic Silver ⁸ | E =Integral Emergency Test Switch Hole ⁶ |

| Accessories |
|---|
| HSA6 =Slope Adapter for 6" Aperture Housings, Specify Slope TRM6 =Metal Trim Ring, Specify Color ² PRR6 =Rimless Trim Ring for Flush Mount ² LGSKT6IP66 =IP66 Gasket Kit DT6 =Deco Trim ² Bar Hangers HB26 =C-channel Bar Hanger, 26" Long, Pair HB50 =C-channel Bar Hanger, 50" Long, Pair RMB22 =Wood Joist Bar Hanger, 22" Long, Pair Transformers H347 =347 to 120V Step Down Transformer, 75VA H347200 =347 to 120V Step Down Transformer, 200VA Connected Lighting Systems PORLWTPD1 =LumaWatt Pro wireless sensor kit (0-10V only) TMSWPD1 =WaveLinx tilemount daylight sensor (includes control module, sensor, cable and tile mount) |

- Notes:**
- Nominal Lumens will vary depending on selected color, driver and reflector finish.
 - Order trim with polymer trim ring (Consult specification sheet for color ordering information and options).
 - Not available with Chicago Plenum.
 - ULus listed only
 - Beam angles are nominal with LI finish trims.
 - Only available with Narrow and Medium Spun Aluminum trims. Required for use with all IEMBOD, IEM7, and IEM14 housings. Requires above ceiling access with wide beam trim.
 - Only available with Matte White and Matte Black Finishes.
 - Available only on CS distributions.
 - Not available on PS, CS or BA distributions.
 - Product is marked spacing and must be installed with the following minimum spacing.
 - Center to center of adjacent luminaires: 36"
 - Center of luminaire to side of building member: 18"
 - Minimum overhead: 1/2"
 - Not available with CS or PS trims
 - PS available in self-flanged MW finish only.
 - Offered up to 2000 lumens
 - Flange is the same finish as the reflector
 - DMX fixtures default to full on upon loss of DMX signal.

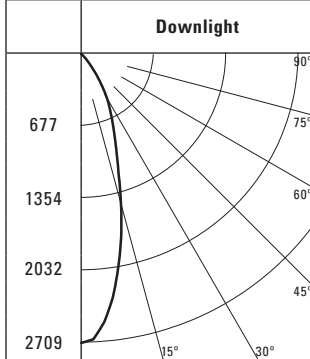
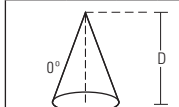
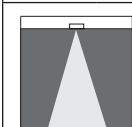
ENERGY

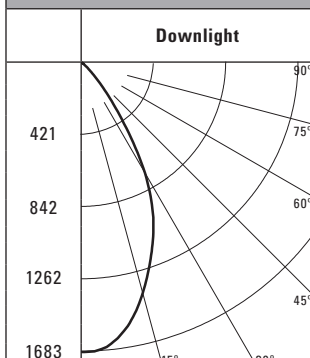
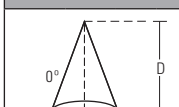
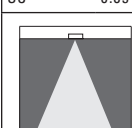
| ENERGY DATA |
|---|
| Sound Rating: Class A standards |
| (Values at non-dimming line voltage) |
| Minimum Starting Temperature: -30°C (-22°F) |
| EMI/RFI: FCC Title 47 CFR, Part 15, Class B (Consumer) |
| Input Voltage: UNV (120V - 277V) |
| Power Factor: >0.9 (at nominal input 120-277 VAC & 100% of Rated Output Power) |
| Input Frequency: 50/60Hz |

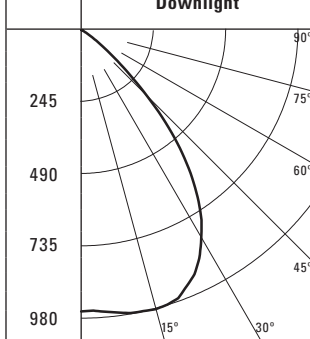
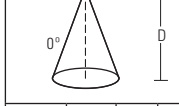
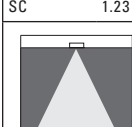
| 1000 Lumen D010 | | 1500 Lumen D010 | |
|---------------------------|---------------------------|---------------------------|---------------------------|
| Input Power: 11W | THD: <14% | Input Power: 15.5W | THD: <13% |
| 120V Input Current: 0.09A | 277V Input Current: 0.04A | 120V Input Current: 0.13A | 277V Input Current: 0.06A |
| 2000 Lumen D010 | | 3000 Lumen D010 | |
| Input Power: 21.2W | THD: <9% | Input Power: 27.6W | THD: <10% |
| 120V Input Current: 0.18A | 277V Input Current: 0.08A | 120V Input Current: 0.23A | 277V Input Current: 0.10A |
| 4000 Lumen D010 | | 5000 Lumen D010TE | |
| Input Power: 41.6W | THD: <13% | Input Power: 57.9W | THD: <14% |
| 120V Input Current: 0.35A | 277V Input Current: 0.15A | 120V Input Current: 0.49A | 277V Input Current: 0.22A |
| 6000 Lumen D010TE | | 7000 Lumen D010TE | |
| Input Power: 59.7W | THD: <14% | Input Power: 75.8W | THD: <13% |
| 120V Input Current: 0.50A | 277V Input Current: 0.22A | 120V Input Current: 0.64A | 277V Input Current: 0.29A |

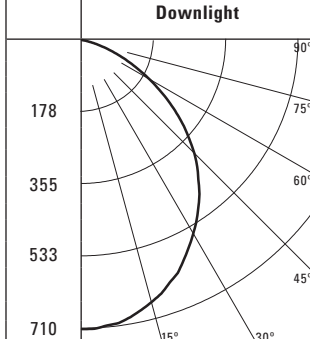
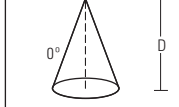
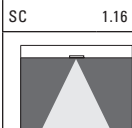
| Lumens | 120V | | 277V | |
|-------------------|------------|---------------|------------|---------------|
| | Inrush (A) | Duration (ms) | Inrush (A) | Duration (ms) |
| 1000 Lumen D010 | 1.02 | 0.041 | 2.18 | 0.021 |
| 1500 Lumen D010 | 1.02 | 0.042 | 2.24 | 0.064 |
| 2000 Lumen D010 | 1.02 | 0.077 | 2.43 | 0.027 |
| 3000 Lumen D010 | 1.15 | 0.067 | 3.26 | 0.027 |
| 4000 Lumen D010 | 1.2 | 0.088 | 3.9 | 0.03 |
| 5000 Lumen D010TE | 5.1 | 0.132 | 10.2 | 0.153 |
| 6000 Lumen D010TE | 5.4 | 0.123 | 10.8 | 0.154 |
| 7000 Lumen D010TE | 4.9 | 0.13 | 9.8 | 0.156 |

PHOTOMETRY

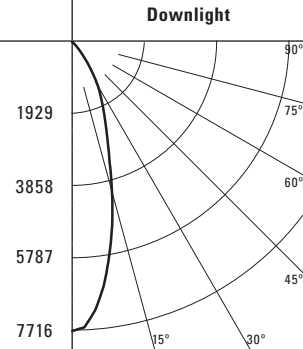
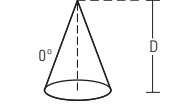
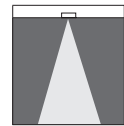
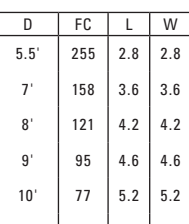
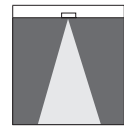
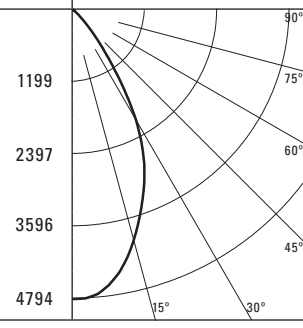
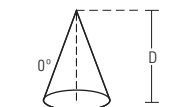
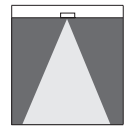
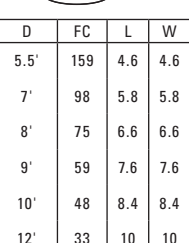
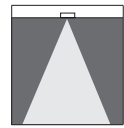
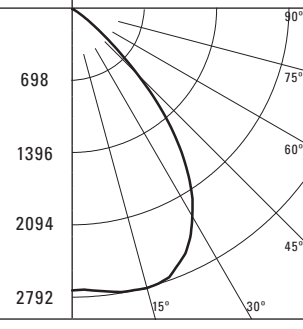
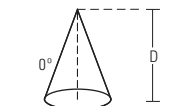
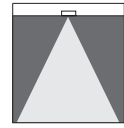
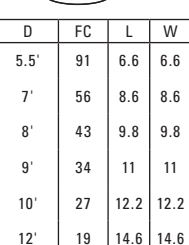
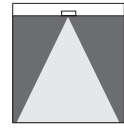
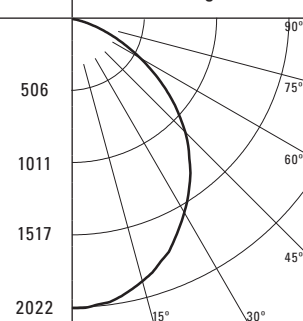
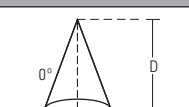
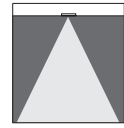
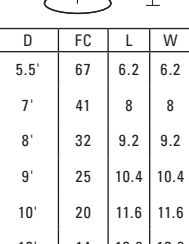
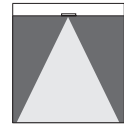
| NARROW (30° BEAM) | | CANDLEPOWER DISTRIBUTION | | CONE OF LIGHT | | CANDELA TABLE | | ZONAL LUMEN SUMMARY | | | LUMINANCE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------------------|---|-----|---|--|---------------|----|---------------------|---|------|-----------|-----|-----|----|----|-----|-----|----|----|-----|-----|----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|---|--|------------------|---------|---|------|---|------|----|------|----|-----|----|-----|----|----|----|---|----|---|----|---|----|---|----|---|--|--|--|------|--------|-----------|------|-----|------|------|------|------|------|------|------|------|------|-----|--------|---|---|-------|------|-----|---|--|-------------------------|----------------------|----|-----|----|----|----|----|----|---|----|---|
| Test Number | P201217 |  | |  <table><tr><th>D</th><th>FC</th><th>L</th><th>W</th></tr><tr><td>5.5'</td><td>90</td><td>2.8</td><td>2.8</td></tr><tr><td>7'</td><td>55</td><td>3.6</td><td>3.6</td></tr><tr><td>8'</td><td>42</td><td>4.2</td><td>4.2</td></tr><tr><td>9'</td><td>33</td><td>4.6</td><td>4.6</td></tr><tr><td>10'</td><td>27</td><td>5.2</td><td>5.2</td></tr><tr><td>12'</td><td>19</td><td>6.2</td><td>6.2</td></tr></table> | | D | FC | L | W | 5.5' | 90 | 2.8 | 2.8 | 7' | 55 | 3.6 | 3.6 | 8' | 42 | 4.2 | 4.2 | 9' | 33 | 4.6 | 4.6 | 10' | 27 | 5.2 | 5.2 | 12' | 19 | 6.2 | 6.2 | <table><tr><th>Degrees Vertical</th><th>Candela</th></tr><tr><td>0</td><td>2709</td></tr><tr><td>5</td><td>2526</td></tr><tr><td>15</td><td>1468</td></tr><tr><td>25</td><td>708</td></tr><tr><td>35</td><td>299</td></tr><tr><td>45</td><td>44</td></tr><tr><td>55</td><td>4</td></tr><tr><td>65</td><td>1</td></tr><tr><td>75</td><td>0</td></tr><tr><td>85</td><td>0</td></tr><tr><td>90</td><td>0</td></tr></table> | | Degrees Vertical | Candela | 0 | 2709 | 5 | 2526 | 15 | 1468 | 25 | 708 | 35 | 299 | 45 | 44 | 55 | 4 | 65 | 1 | 75 | 0 | 85 | 0 | 90 | 0 | <table><tr><th>Zone</th><th>Lumens</th><th>% Fixture</th></tr><tr><td>0-30</td><td>960</td><td>80.4</td></tr><tr><td>0-40</td><td>1149</td><td>96.2</td></tr><tr><td>0-60</td><td>1193</td><td>99.9</td></tr><tr><td>0-90</td><td>1195</td><td>100</td></tr><tr><td>90-180</td><td>0</td><td>0</td></tr><tr><td>0-180</td><td>1195</td><td>100</td></tr></table> | | | Zone | Lumens | % Fixture | 0-30 | 960 | 80.4 | 0-40 | 1149 | 96.2 | 0-60 | 1193 | 99.9 | 0-90 | 1195 | 100 | 90-180 | 0 | 0 | 0-180 | 1195 | 100 | <table><tr><th>Average Candela Degrees</th><th>Average 0° Luminance</th></tr><tr><td>45</td><td>677</td></tr><tr><td>55</td><td>76</td></tr><tr><td>65</td><td>26</td></tr><tr><td>75</td><td>0</td></tr><tr><td>85</td><td>0</td></tr></table> | | Average Candela Degrees | Average 0° Luminance | 45 | 677 | 55 | 76 | 65 | 26 | 75 | 0 | 85 | 0 |
| D | FC | L | W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.5' | 90 | 2.8 | 2.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7' | 55 | 3.6 | 3.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8' | 42 | 4.2 | 4.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9' | 33 | 4.6 | 4.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10' | 27 | 5.2 | 5.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12' | 19 | 6.2 | 6.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Degrees Vertical | Candela | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 2709 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 2526 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 1468 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 708 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 35 | 299 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 45 | 44 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 55 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 65 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 75 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 85 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 90 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zone | Lumens | % Fixture | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-30 | 960 | 80.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-40 | 1149 | 96.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-60 | 1193 | 99.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-90 | 1195 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 90-180 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-180 | 1195 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Average Candela Degrees | Average 0° Luminance | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 45 | 677 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 55 | 76 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 65 | 26 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 75 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 85 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Housing | LD6B15D010 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Module | EU6B10208035 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trim | 6LBN1LI | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumens | 1195 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Efficacy | 83.6 Lm/W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SC | 0.53 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| MEDIUM (50° BEAM) | | CANDLEPOWER DISTRIBUTION | | CONE OF LIGHT | | CANDELA TABLE | | ZONAL LUMEN SUMMARY | | | LUMINANCE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------------------|---|-----|---|--|---------------|----|---------------------|---|------|-----------|-----|-----|----|----|-----|-----|----|----|-----|-----|----|----|-----|-----|-----|----|-----|-----|-----|----|----|----|---|--|------------------|---------|---|------|---|------|----|------|----|-----|----|-----|----|----|----|---|----|---|----|---|----|---|----|---|--|--|--|------|--------|-----------|------|-----|------|------|------|----|------|------|------|------|------|-----|--------|---|---|-------|------|-----|--|--|-------------------------|----------------------|----|------|----|-----|----|----|----|----|----|---|
| Test Number | P201215 |  | |  <table><tr><th>D</th><th>FC</th><th>L</th><th>W</th></tr><tr><td>5.5'</td><td>56</td><td>4.6</td><td>4.6</td></tr><tr><td>7'</td><td>34</td><td>5.8</td><td>5.8</td></tr><tr><td>8'</td><td>26</td><td>6.6</td><td>6.6</td></tr><tr><td>9'</td><td>21</td><td>7.6</td><td>7.6</td></tr><tr><td>10'</td><td>17</td><td>8.4</td><td>8.4</td></tr><tr><td>12'</td><td>12</td><td>10</td><td>10</td></tr></table> | | D | FC | L | W | 5.5' | 56 | 4.6 | 4.6 | 7' | 34 | 5.8 | 5.8 | 8' | 26 | 6.6 | 6.6 | 9' | 21 | 7.6 | 7.6 | 10' | 17 | 8.4 | 8.4 | 12' | 12 | 10 | 10 | <table><tr><th>Degrees Vertical</th><th>Candela</th></tr><tr><td>0</td><td>1683</td></tr><tr><td>5</td><td>1661</td></tr><tr><td>15</td><td>1386</td></tr><tr><td>25</td><td>993</td></tr><tr><td>35</td><td>430</td></tr><tr><td>45</td><td>76</td></tr><tr><td>55</td><td>7</td></tr><tr><td>65</td><td>3</td></tr><tr><td>75</td><td>2</td></tr><tr><td>85</td><td>0</td></tr><tr><td>90</td><td>0</td></tr></table> | | Degrees Vertical | Candela | 0 | 1683 | 5 | 1661 | 15 | 1386 | 25 | 993 | 35 | 430 | 45 | 76 | 55 | 7 | 65 | 3 | 75 | 2 | 85 | 0 | 90 | 0 | <table><tr><th>Zone</th><th>Lumens</th><th>% Fixture</th></tr><tr><td>0-30</td><td>990</td><td>73.6</td></tr><tr><td>0-40</td><td>1265</td><td>94</td></tr><tr><td>0-60</td><td>1341</td><td>99.7</td></tr><tr><td>0-90</td><td>1345</td><td>100</td></tr><tr><td>90-180</td><td>0</td><td>0</td></tr><tr><td>0-180</td><td>1345</td><td>100</td></tr></table> | | | Zone | Lumens | % Fixture | 0-30 | 990 | 73.6 | 0-40 | 1265 | 94 | 0-60 | 1341 | 99.7 | 0-90 | 1345 | 100 | 90-180 | 0 | 0 | 0-180 | 1345 | 100 | <table><tr><th>Average Candela Degrees</th><th>Average 0° Luminance</th></tr><tr><td>45</td><td>1159</td></tr><tr><td>55</td><td>130</td></tr><tr><td>65</td><td>87</td></tr><tr><td>75</td><td>71</td></tr><tr><td>85</td><td>0</td></tr></table> | | Average Candela Degrees | Average 0° Luminance | 45 | 1159 | 55 | 130 | 65 | 87 | 75 | 71 | 85 | 0 |
| D | FC | L | W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.5' | 56 | 4.6 | 4.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7' | 34 | 5.8 | 5.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8' | 26 | 6.6 | 6.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9' | 21 | 7.6 | 7.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10' | 17 | 8.4 | 8.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12' | 12 | 10 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Degrees Vertical | Candela | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1683 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 1661 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 1386 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 993 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 35 | 430 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 45 | 76 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 55 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 65 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 75 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 85 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 90 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zone | Lumens | % Fixture | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-30 | 990 | 73.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-40 | 1265 | 94 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-60 | 1341 | 99.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-90 | 1345 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 90-180 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-180 | 1345 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Average Candela Degrees | Average 0° Luminance | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 45 | 1159 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 55 | 130 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 65 | 87 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 75 | 71 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 85 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Housing | LD6B15D010 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Module | EU6B10208035 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trim | 6LBM1LI | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumens | 1345 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Efficacy | 94.1 Lm/W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SC | 0.85 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| WIDE (75° BEAM) | | CANDLEPOWER DISTRIBUTION | | CONE OF LIGHT | | CANDELA TABLE | | ZONAL LUMEN SUMMARY | | | LUMINANCE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------------------|---|------|--|--|---------------|----|---------------------|---|------|-----------|-----|-----|----|----|-----|-----|----|----|-----|-----|----|----|----|----|-----|----|------|------|-----|---|------|------|--|--|------------------|---------|---|-----|---|-----|----|-----|----|-----|----|-----|----|-----|----|----|----|---|----|---|----|---|----|---|--|--|--|------|--------|-----------|------|-----|------|------|------|------|------|------|------|------|------|-----|--------|---|---|-------|------|-----|--|--|-------------------------|----------------------|----|------|----|------|----|-----|----|----|----|---|
| Test Number | P201213 |  | |  <table><tr><th>D</th><th>FC</th><th>L</th><th>W</th></tr><tr><td>5.5'</td><td>32</td><td>6.6</td><td>6.6</td></tr><tr><td>7'</td><td>20</td><td>8.6</td><td>8.6</td></tr><tr><td>8'</td><td>15</td><td>9.8</td><td>9.8</td></tr><tr><td>9'</td><td>12</td><td>11</td><td>11</td></tr><tr><td>10'</td><td>10</td><td>12.2</td><td>12.2</td></tr><tr><td>12'</td><td>7</td><td>14.6</td><td>14.6</td></tr></table> | | D | FC | L | W | 5.5' | 32 | 6.6 | 6.6 | 7' | 20 | 8.6 | 8.6 | 8' | 15 | 9.8 | 9.8 | 9' | 12 | 11 | 11 | 10' | 10 | 12.2 | 12.2 | 12' | 7 | 14.6 | 14.6 | <table><tr><th>Degrees Vertical</th><th>Candela</th></tr><tr><td>0</td><td>963</td></tr><tr><td>5</td><td>963</td></tr><tr><td>15</td><td>976</td></tr><tr><td>25</td><td>913</td></tr><tr><td>35</td><td>687</td></tr><tr><td>45</td><td>316</td></tr><tr><td>55</td><td>56</td></tr><tr><td>65</td><td>6</td></tr><tr><td>75</td><td>2</td></tr><tr><td>85</td><td>0</td></tr><tr><td>90</td><td>0</td></tr></table> | | Degrees Vertical | Candela | 0 | 963 | 5 | 963 | 15 | 976 | 25 | 913 | 35 | 687 | 45 | 316 | 55 | 56 | 65 | 6 | 75 | 2 | 85 | 0 | 90 | 0 | <table><tr><th>Zone</th><th>Lumens</th><th>% Fixture</th></tr><tr><td>0-30</td><td>785</td><td>51.7</td></tr><tr><td>0-40</td><td>1207</td><td>79.5</td></tr><tr><td>0-60</td><td>1510</td><td>99.4</td></tr><tr><td>0-90</td><td>1519</td><td>100</td></tr><tr><td>90-180</td><td>0</td><td>0</td></tr><tr><td>0-180</td><td>1519</td><td>100</td></tr></table> | | | Zone | Lumens | % Fixture | 0-30 | 785 | 51.7 | 0-40 | 1207 | 79.5 | 0-60 | 1510 | 99.4 | 0-90 | 1519 | 100 | 90-180 | 0 | 0 | 0-180 | 1519 | 100 | <table><tr><th>Average Candela Degrees</th><th>Average 0° Luminance</th></tr><tr><td>45</td><td>4835</td></tr><tr><td>55</td><td>1055</td></tr><tr><td>65</td><td>151</td></tr><tr><td>75</td><td>84</td></tr><tr><td>85</td><td>0</td></tr></table> | | Average Candela Degrees | Average 0° Luminance | 45 | 4835 | 55 | 1055 | 65 | 151 | 75 | 84 | 85 | 0 |
| D | FC | L | W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.5' | 32 | 6.6 | 6.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7' | 20 | 8.6 | 8.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8' | 15 | 9.8 | 9.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9' | 12 | 11 | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10' | 10 | 12.2 | 12.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12' | 7 | 14.6 | 14.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Degrees Vertical | Candela | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 963 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 963 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 976 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 913 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 35 | 687 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 45 | 316 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 55 | 56 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 65 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 75 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 85 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 90 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zone | Lumens | % Fixture | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-30 | 785 | 51.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-40 | 1207 | 79.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-60 | 1510 | 99.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-90 | 1519 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 90-180 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-180 | 1519 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Average Candela Degrees | Average 0° Luminance | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 45 | 4835 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 55 | 1055 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 65 | 151 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 75 | 84 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 85 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Housing | LD6B15D010 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Module | EU6B10208035 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trim | 6LBW1LI | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumens | 1519 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Efficacy | 106.2 Lm/W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SC | 1.23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| SHALLOW (75° BEAM) | | CANDLEPOWER DISTRIBUTION | | CONE OF LIGHT | | CANDELA TABLE | | ZONAL LUMEN SUMMARY | | | LUMINANCE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------------------|---|------|--|--|---------------|----|---------------------|---|------|-----------|-----|-----|----|----|---|---|----|----|-----|-----|----|---|------|------|-----|---|------|------|-----|---|------|------|--|--|------------------|---------|---|-----|---|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|----|----|---|----|---|---|--|--|------|--------|-----------|------|-----|------|------|-----|------|------|------|----|------|------|-----|--------|---|---|-------|------|-----|--|--|-------------------------|----------------------|----|-------|----|-------|----|-------|----|------|----|-----|
| Test Number | P201212 |  | |  <table><tr><th>D</th><th>FC</th><th>L</th><th>W</th></tr><tr><td>5.5'</td><td>24</td><td>6.2</td><td>6.2</td></tr><tr><td>7'</td><td>15</td><td>8</td><td>8</td></tr><tr><td>8'</td><td>11</td><td>9.2</td><td>9.2</td></tr><tr><td>9'</td><td>9</td><td>10.4</td><td>10.4</td></tr><tr><td>10'</td><td>7</td><td>11.6</td><td>11.6</td></tr><tr><td>12'</td><td>5</td><td>13.8</td><td>13.8</td></tr></table> | | D | FC | L | W | 5.5' | 24 | 6.2 | 6.2 | 7' | 15 | 8 | 8 | 8' | 11 | 9.2 | 9.2 | 9' | 9 | 10.4 | 10.4 | 10' | 7 | 11.6 | 11.6 | 12' | 5 | 13.8 | 13.8 | <table><tr><th>Degrees Vertical</th><th>Candela</th></tr><tr><td>0</td><td>710</td></tr><tr><td>5</td><td>704</td></tr><tr><td>15</td><td>666</td></tr><tr><td>25</td><td>596</td></tr><tr><td>35</td><td>502</td></tr><tr><td>45</td><td>393</td></tr><tr><td>55</td><td>261</td></tr><tr><td>65</td><td>130</td></tr><tr><td>75</td><td>33</td></tr><tr><td>85</td><td>1</td></tr><tr><td>90</td><td>0</td></tr></table> | | Degrees Vertical | Candela | 0 | 710 | 5 | 704 | 15 | 666 | 25 | 596 | 35 | 502 | 45 | 393 | 55 | 261 | 65 | 130 | 75 | 33 | 85 | 1 | 90 | 0 | <table><tr><th>Zone</th><th>Lumens</th><th>% Fixture</th></tr><tr><td>0-30</td><td>529</td><td>34.2</td></tr><tr><td>0-40</td><td>843</td><td>54.5</td></tr><tr><td>0-60</td><td>1377</td><td>89</td></tr><tr><td>0-90</td><td>1546</td><td>100</td></tr><tr><td>90-180</td><td>0</td><td>0</td></tr><tr><td>0-180</td><td>1546</td><td>100</td></tr></table> | | | Zone | Lumens | % Fixture | 0-30 | 529 | 34.2 | 0-40 | 843 | 54.5 | 0-60 | 1377 | 89 | 0-90 | 1546 | 100 | 90-180 | 0 | 0 | 0-180 | 1546 | 100 | <table><tr><th>Average Candela Degrees</th><th>Average 0° Luminance</th></tr><tr><td>45</td><td>36260</td></tr><tr><td>55</td><td>29687</td></tr><tr><td>65</td><td>20068</td></tr><tr><td>75</td><td>8318</td></tr><tr><td>85</td><td>749</td></tr></table> | | Average Candela Degrees | Average 0° Luminance | 45 | 36260 | 55 | 29687 | 65 | 20068 | 75 | 8318 | 85 | 749 |
| D | FC | L | W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.5' | 24 | 6.2 | 6.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7' | 15 | 8 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8' | 11 | 9.2 | 9.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9' | 9 | 10.4 | 10.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10' | 7 | 11.6 | 11.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12' | 5 | 13.8 | 13.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Degrees Vertical | Candela | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 710 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 704 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 666 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 596 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 35 | 502 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 45 | 393 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 55 | 261 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 65 | 130 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 75 | 33 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 85 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 90 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zone | Lumens | % Fixture | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-30 | 529 | 34.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-40 | 843 | 54.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-60 | 1377 | 89 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-90 | 1546 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 90-180 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-180 | 1546 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Average Candela Degrees | Average 0° Luminance | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 45 | 36260 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 55 | 29687 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 65 | 20068 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 75 | 8318 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 85 | 749 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Housing | LD6B15D010 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Module | EU6B10208035 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trim | 6LBCS1MMS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumens | 1546 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Efficacy | 110.4 Lm/W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SC | 1.16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

PHOTOMETRY

| NARROW (30° BEAM) | | CANDLEPOWER DISTRIBUTION | | CONE OF LIGHT | | CANDELA TABLE | | ZONAL LUMEN SUMMARY | | | LUMINANCE | | | | | |
|---|--------------|---|--|---|--|--------------------------|---------|---------------------|--------|---------------|-------------------------|----------------------|--|--|-----------|--|
| Test Number | P201218 |  | |  | | Degrees Vertical | Candela | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance | | | | |
| Housing | LD6B40D010 | | | | | 0 | 7716 | 0-30 | 2735 | 80.4 | 45 | 1928 | | | | |
| Module | EU6B30508035 | | | | | 5 | 7196 | 0-40 | 3274 | 96.2 | 55 | 215 | | | | |
| Trim | 6LBN1LI | | | | | 15 | 4183 | 0-60 | 3399 | 99.9 | 65 | 74 | | | | |
| Lumens | 3404 | | | | | 25 | 2017 | 0-90 | 3404 | 100 | 75 | 0 | | | | |
| Efficacy | 81.4 Lm/W | | | | | 65 | 3 | 90-180 | 0 | 0 | 85 | 0 | | | | |
| SC | 0.53 |  | |  | | 75 | 0 | 0-180 | 3404 | 100 | | | | | | |
|  | | | | | | 85 | 0 | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| MEDIUM (50° BEAM) | | | | | | CANDLEPOWER DISTRIBUTION | | CONE OF LIGHT | | CANDELA TABLE | | ZONAL LUMEN SUMMARY | | | LUMINANCE | |
| Test Number | P201216 |  | |  | | Degrees Vertical | Candela | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance | | | | |
| Housing | LD6B40D010 | | | | | 0 | 4794 | 0-30 | 2819 | 73.6 | 45 | 3303 | | | | |
| Module | EU6B30508035 | | | | | 5 | 4731 | 0-40 | 3602 | 94 | 55 | 370 | | | | |
| Trim | 6LBM1LI | | | | | 15 | 3946 | 0-60 | 3819 | 99.7 | 65 | 251 | | | | |
| Lumens | 3831 | | | | | 25 | 2829 | 0-90 | 3831 | 100 | 75 | 205 | | | | |
| Efficacy | 91.7 Lm/W | | | | | 35 | 1226 | 90-180 | 0 | 0 | 85 | 0 | | | | |
| SC | 0.85 |  | |  | | 45 | 216 | 0-180 | 3831 | 100 | | | | | | |
|  | | | | | | 55 | 20 | | | | | | | | | |
| | | | | | | 65 | 10 | | | | | | | | | |
| | | | | | | 75 | 5 | | | | | | | | | |
| | | | | | | 85 | 0 | | | | | | | | | |
| | | | | | | 90 | 0 | | | | | | | | | |
| WIDE (75° BEAM) | | | | | | CANDLEPOWER DISTRIBUTION | | CONE OF LIGHT | | CANDELA TABLE | | ZONAL LUMEN SUMMARY | | | LUMINANCE | |
| Test Number | P201214 |  | |  | | Degrees Vertical | Candela | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance | | | | |
| Housing | LD6B40D010 | | | | | 0 | 2742 | 0-30 | 2236 | 51.7 | 45 | 13769 | | | | |
| Module | EU6B30508035 | | | | | 5 | 2742 | 0-40 | 3439 | 79.5 | 55 | 3006 | | | | |
| Trim | 6LBW1LI | | | | | 15 | 2778 | 0-60 | 4301 | 99.4 | 65 | 430 | | | | |
| Lumens | 4326 | | | | | 25 | 2600 | 0-90 | 4326 | 100 | 75 | 234 | | | | |
| Efficacy | 103.5 Lm/W | | | | | 35 | 1957 | 90-180 | 0 | 0 | 85 | 0 | | | | |
| SC | 1.23 |  | |  | | 45 | 899 | 0-180 | 4326 | 100 | | | | | | |
|  | | | | | | 55 | 159 | | | | | | | | | |
| | | | | | | 65 | 17 | | | | | | | | | |
| | | | | | | 75 | 6 | | | | | | | | | |
| | | | | | | 85 | 0 | | | | | | | | | |
| | | | | | | 90 | 0 | | | | | | | | | |
| SHALLOW (75° BEAM) | | | | | | CANDLEPOWER DISTRIBUTION | | CONE OF LIGHT | | CANDELA TABLE | | ZONAL LUMEN SUMMARY | | | LUMINANCE | |
| Test Number | P35144 |  | |  | | Degrees Vertical | Candela | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance | | | | |
| Housing | LD6B40D010 | | | | | 0 | 2022 | 0-30 | 1506 | 34.2 | 45 | 17139 | | | | |
| Module | EU6B30508035 | | | | | 5 | 2005 | 0-40 | 2399 | 54.5 | 55 | 14033 | | | | |
| Trim | 6LBCS1MMS | | | | | 15 | 1897 | 0-60 | 3921 | 89 | 65 | 9486 | | | | |
| Lumens | 4403 | | | | | 25 | 1697 | 0-90 | 4403 | 100 | 75 | 3933 | | | | |
| Efficacy | 105.3 Lm/W | | | | | 35 | 1430 | 90-180 | 0 | 0 | 85 | 348 | | | | |
| SC | 1.16 |  | |  | | 45 | 1119 | 0-180 | 4403 | 100 | | | | | | |
|  | | | | | | 55 | 743 | | | | | | | | | |
| | | | | | | 65 | 370 | | | | | | | | | |
| | | | | | | 75 | 94 | | | | | | | | | |
| | | | | | | 85 | 3 | | | | | | | | | |
| | | | | | | 90 | 0 | | | | | | | | | |

Acion

Large LED Accent

ACCL / BLK



Features

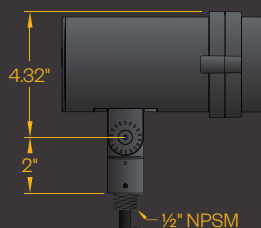
The Amerlux Acion accent luminaire employs solid state technology and precision engineering to provide small scale LED solutions in landscape and architecture layouts. All components are encapsulated inside a single attractive enclosure designed for superior performance in weather resistant applications. Offered in a choice of beam spreads, finishes, and color temperatures, two mounting options and glare shield are also available.

Product Overview

| | |
|---------------|--------------------------|
| Wattage: | 17W |
| Lumen Output: | 1,360 lm |
| Color Temp: | 2,700K / 3,000K / 3,500K |
| Dimming: | ELV at 120v only |

PROJECT:

TYPE:



Construction:

- Die-cast aluminum
- IP67 sealed optical chamber and integral driver chamber
- Easy "two-screw" integral driver access, does not disturb optical chamber seal
- Flush lens prevents puddles/water deposits in upward facing applications
- Knuckle mount
- Vertical aiming lock, with tamper-resistant tooled locking after final aiming

Optics:

- Lumen maintenance: 70% @ 50,000 hours
- 10°, 15°, 30°, 40°, 60°, 60x10, 60x30, 90x60 beam spreads are available with secondary shaping lens

Electrical:

- Integral driver
- Input voltage 120v-277v auto-sensing
- 1/2" NPSM wire entry
- Drive current 700mA
- Power consumption 17W
- ELV dimmable at 120v only

ETL listed, suitable for wet locations.

Accessories:

- Ground Stake (**GSP17**)
- Ground Spike (**GSP2**)
- Junction Box (**JBOX**)
- Junction Mount (**JCOV**)

Optical Accessories:

- Hexell Louver (**HCL**)
- Half Glare Shield (**HGL**)

Finish:

Premium quality thermoset polyester powdercoat for a durable finish.

BLK -Satin Black
CLB -Classic Bronze

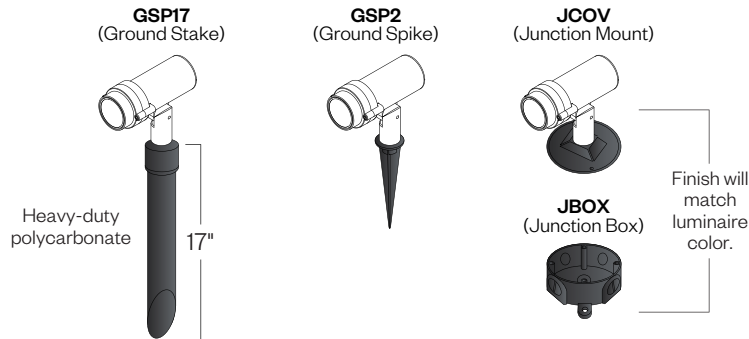
GRN -Green
CSTM -Custom



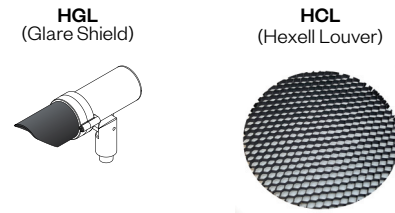
PROJECT:

TYPE:

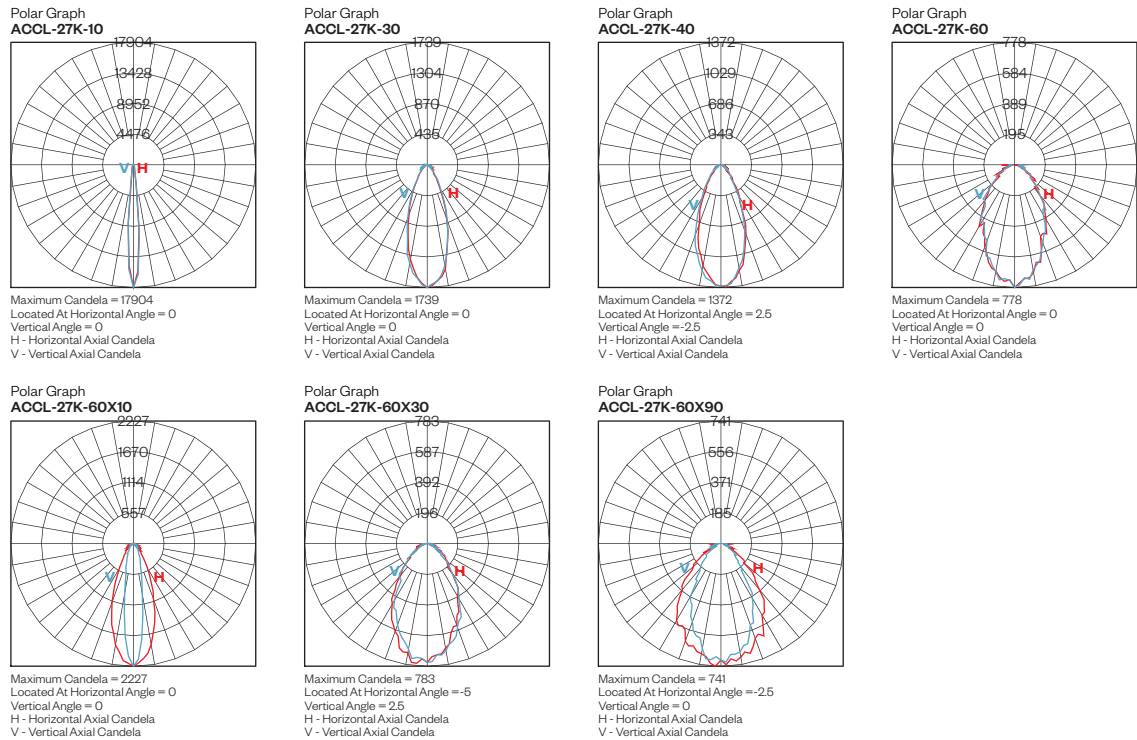
Accessories:



Optical Accessories:



Optical Performance:



Data represents the use of light shaping filters
Complete photometric data (ies format) available upon request

Ordering Information

| Model | CCT | Beam Spread | Approx. Lumens | Total Efficacy | Mounting | Finish | Accessories | Optical Accessories | |
|-------|---|--------------------|----------------|----------------|------------|-------------|---------------------------|-------------------------------|------------|
| ACCL | 27 (2,700K) 30 (3,000K) 35 (3,500K) | Symmetric Pattern | 10 (10°) | 1240-1360 | 72-80 lm/W | K (Knuckle) | BLK CLB GRN CSTM | GSP17 GSP2 JBOX JCOV | HCL HGL |
| | | | 15 (15°) | 1190-1305 | 70-76 lm/W | | | | |
| | | | 30 (30°) | 1140-1250 | 67-73 lm/W | | | | |
| | | | 40 (40°) | 1130-1250 | 66-73 lm/W | | | | |
| | | | 60 (60°) | 1110-1190 | 65-70 lm/W | | | | |
| | | Horizontal Pattern | H6010 (60x10) | 980-1180 | 57-69 lm/W | | | | |
| | | | H6030 (60x30) | 1070-1190 | 62-70 lm/W | | | | |
| | | | H9060 (90x60) | 1050-1170 | 61-68 lm/W | | | | |
| | | Vertical Pattern | V6010 (60x10) | 1180-980 | 69-57 lm/W | | | | |
| | | | V6030 (60x30) | 1190-1070 | 70-62 lm/W | | | | |
| | | | V9060 (90x60) | 1170-1050 | 68-61 lm/W | | | | |

Ordering options shown as **BOLD**. Example: **ACCL/27/40/K/BLK**

Cree Edge™ Series

LED Area Luminaire – Round

P1, P2, P3, P4, P5

Product Description

The Cree Edge™ Series has a slim, low profile design. Its rugged cast aluminum housing minimizes wind load requirements and features an integral, weathertight LED driver compartment, spun vented cover, high performance aluminum heat sinks and leaf/debris guard.

Applications: Auto Dealerships, parking lots, campuses, facade lighting and general site lighting applications

Performance Summary

Patented NanoOptic® Product Technology

Made in the U.S.A. of U.S. and imported parts

CRI: Minimum 70 CRI

CCT: 4000K (+/- 300K), 5700K (+/- 500K) standard

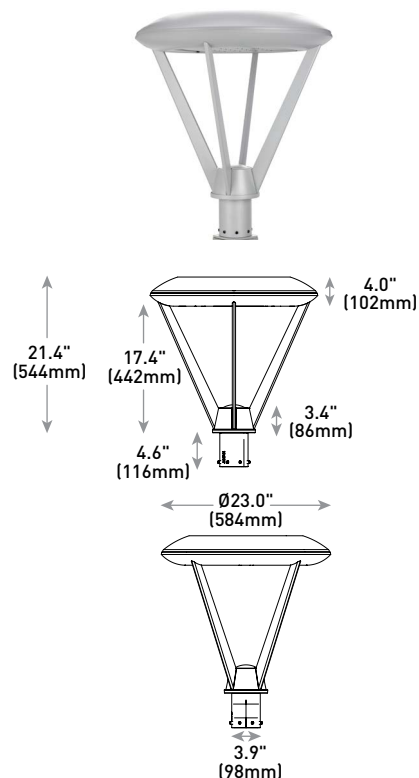
Limited Warranty*: 10 years on luminaire/10 years on Colorfast DeltaGuard® finish

* See <http://lighting.cree.com/warranty> for warranty terms

Accessories

| Field-Installed | |
|---------------------------------|--|
| Bird Spikes XA-BRDSPK | Backlight Control Shields XA-20BLS-4 - Four-pack - Unpainted stainless steel |

R3 Mount



| LED Count (x10) | Weight |
|-----------------|--------------------|
| 04 | 33.8 lbs. (15.3kg) |
| 06 | 35.2 lbs. (15.9kg) |
| 08 | 37.0 lbs. (16.8kg) |
| 10 | 40.7 lbs. (18.5kg) |
| 12 | 42.4 lbs. (19.3kg) |

R4/R5 Mount - see page 14 for weight & dimensions

Ordering Information

Example: ARE-EDR-2M-R3-12-E-UL-SV-350

| ARE-EDR | | | | E | | | | |
|---------|--|---|---|---|--|--|--|--|
| Product | Optic | Mounting* | LED Count (x10) | Series | Voltage | Color Options | Drive Current | Options |
| ARE-EDR | 2M Type II Medium 2MB Type II Medium w/BLS 2MP Type II Medium w/Partial BLS 3M Type III Medium 3MB Type III Medium w/BLS | 3MP Type III Medium w/Partial BLS 4M Type IV Medium 4MB Type IV Medium w/BLS 4MP Type IV Medium w/Partial BLS 5M Type V Medium 5S Type V Short | R3 Spider, Center Tenon, 2-3/8" to 3" OD R4 Spider, Center Direct, 4" Square R5 Spider, Center Direct, 5" Round | 04** 06** 08** 10 12 | E UL Universal 120-277V UH Universal 347-480V | BK Black BZ Bronze SV Silver WH White | 350 350mA 525 525mA 700 700mA - Available with 40-60 LEDs | DIM 0-10V Dimming - Control by others - Refer to Dimming spec sheet for details - Can't exceed specified drive current F Fuse - When code dictates fusing, use time delay fuse - Available with UL voltage only - Available for U.S. applications only HL Hi/Low (Dual Circuit Input) - Refer to HL spec sheet for details - Sensor not included P Photocell - Available with UL voltage only 40K 4000K Color Temperature - Minimum 70 CRI - Color temperature per luminaire |

* Reference EPA and pole configuration suitability data beginning on page 14

** Consists of multiple 20 LED light bars. 40, 60, and 80 LED units use blanks as needed in place of populated light bars

NOTE: Price adder may apply depending on configuration



US: lighting.cree.com/lighting

T (800) 236-6800 F (262) 504-5415

Rev. Date: V4 09/20/2016

Canada: www.cree.com/canada



T (800) 473-1234 F (800) 890-7507

Product Specifications

CONSTRUCTION & MATERIALS

- Slim, low profile, minimizing wind load requirements
- Luminaire sides are rugged die cast aluminum with integral, weathertight LED driver compartment, spun vented cover, and high performance aluminum heat sinks
- R3 spider mount hub slip-fits over a 2.375" (60mm) to 3" (76mm) O.D. steel or aluminum tenon or pole and secures with eight set screws
- R4 spider mount fits directly inside 4" (102mm) square pole and secures to pole with four set screws
- R5 spider mount fits directly inside of a 5" (127mm) round pole to provide a clean hardware-less outer appearance
- Includes leaf/debris guard
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Black, bronze, silver, and white are available
- **Weight:** See Dimensions and Weight charts on pages 1 and 14

ELECTRICAL SYSTEM

- **Input Voltage:** 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- **10V Source Current:** 40-80 LEDs: 0.15mA; 100-120 LEDs: 0.30mA
- Integral 10kV surge suppression protection standard
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- Meets FCC Part 15, Subpart B, Class A standards for conducted and radiated emissions
- Enclosure rated IP66 per IEC 60529 when ordered without P option
- Certified to ANSI C136.31-2001, 1.5G normal vibration standards when ordered with R3, R4 and R5 mounts
- 10kV surge suppression protection tested in accordance with IEEE/ANSI C62.41.2
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- DLC qualified. Exceptions apply when ordered with full backlight control or 3MP optic. Please refer to www.designlights.org/QPL for most current information
- Meets Buy American requirements within ARRA

| Electrical Data* | | | | | | | |
|--------------------|-----------------------------|-------------------|------|------|------|------|------|
| LED Count (x10) | System Watts 120-480V | Total Current (A) | | | | | |
| | | 120V | 208V | 240V | 277V | 347V | 480V |
| 350mA | | | | | | | |
| 04 | 46 | 0.36 | 0.23 | 0.21 | 0.20 | 0.15 | 0.12 |
| 06 | 66 | 0.52 | 0.31 | 0.28 | 0.26 | 0.20 | 0.15 |
| 08 | 90 | 0.75 | 0.44 | 0.38 | 0.34 | 0.26 | 0.20 |
| 10 | 110 | 0.92 | 0.53 | 0.47 | 0.41 | 0.32 | 0.24 |
| 12 | 130 | 1.10 | 0.63 | 0.55 | 0.48 | 0.38 | 0.28 |
| 525mA | | | | | | | |
| 04 | 70 | 0.58 | 0.34 | 0.31 | 0.28 | 0.21 | 0.16 |
| 06 | 101 | 0.84 | 0.49 | 0.43 | 0.38 | 0.30 | 0.22 |
| 08 | 133 | 1.13 | 0.66 | 0.58 | 0.51 | 0.39 | 0.28 |
| 10 | 171 | 1.43 | 0.83 | 0.74 | 0.66 | 0.50 | 0.38 |
| 12 | 202 | 1.69 | 0.98 | 0.86 | 0.77 | 0.59 | 0.44 |
| 700mA | | | | | | | |
| 04 | 93 | 0.78 | 0.46 | 0.40 | 0.36 | 0.27 | 0.20 |
| 06 | 134 | 1.14 | 0.65 | 0.57 | 0.50 | 0.39 | 0.29 |

* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V +/- 10%

| Recommended Cree Edge™ Series Lumen Maintenance Factors (LMF) ¹ | | | | | |
|--|----------------|---|---|--|---|
| Ambient | Initial LMF | 25K hr Projected ² LMF | 50K hr Projected ² LMF | 75K hr Calculated ³ LMF | 100K hr Calculated ³ LMF |
| 5°C (41°F) | 1.04 | 1.01 | 0.99 | 0.98 | 0.96 |
| 10°C (50°F) | 1.03 | 1.00 | 0.98 | 0.97 | 0.95 |
| 15°C (59°F) | 1.02 | 0.99 | 0.97 | 0.96 | 0.94 |
| 20°C (68°F) | 1.01 | 0.98 | 0.96 | 0.95 | 0.93 |
| 25°C (77°F) | 1.00 | 0.97 | 0.95 | 0.94 | 0.92 |

¹ Lumen maintenance values at 25°C are calculated per TM-21 based on LM-80 data and in-situ luminaire testing

² In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing (IDUT) i.e. the packaged LED chip

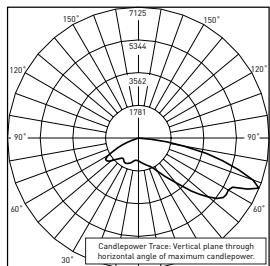
³ In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing (IDUT) i.e. the packaged LED chip



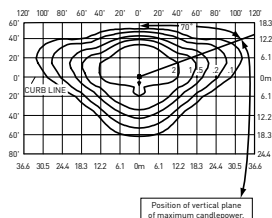
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: <http://lighting.cree.com/products/outdoor/area/cree-edge-series-1>

2M



CSA Test Report #: 6371
ARE-EDG-2M-**-06-E-UL-700-40K
Initial Delivered Lumens: 10,985



ARE-EDR-2M-**-10-E-UL-525-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 17,504
Initial FC at grade

Type II Medium Distribution

| LED Count (x10) | 4000K | | 5700K | |
|-----------------|---------------------------|----------------------------|---------------------------|----------------------------|
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 04 | 5,003 | B1 U0 G1 | 5,102 | B1 U0 G1 |
| 06 | 7,418 | B2 U0 G2 | 7,565 | B2 U0 G2 |
| 08 | 9,891 | B2 U0 G2 | 10,087 | B2 U0 G2 |
| 10 | 12,334 | B2 U0 G2 | 12,578 | B2 U0 G2 |
| 12 | 14,801 | B3 U0 G3 | 15,094 | B3 U0 G3 |
| 525mA | | | | |
| 04 | 7,099 | B2 U0 G2 | 7,248 | B2 U0 G2 |
| 06 | 10,527 | B2 U0 G2 | 10,748 | B2 U0 G2 |
| 08 | 14,037 | B3 U0 G3 | 14,331 | B3 U0 G3 |
| 10 | 17,504 | B3 U0 G3 | 17,870 | B3 U0 G3 |
| 12 | 21,004 | B3 U0 G3 | 21,444 | B3 U0 G3 |
| 700mA | | | | |
| 04 | 8,379 | B2 U0 G2 | 8,549 | B2 U0 G2 |
| 06 | 12,425 | B2 U0 G2 | 12,678 | B2 U0 G2 |

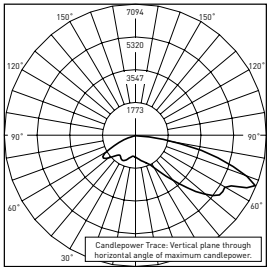
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf

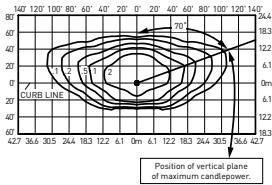
Photometry

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2MP



CSA Test Report #: 6361
ARE-EDG-2MP-**-06-E-UL-700-40K
Initial Delivered Lumens: 9,912



ARE-EDR-2MP-**-10-E-UL-525-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 15,458
Initial FC at grade

| Type II Medium Distribution w/Partial BLS | | | | |
|---|---------------------------|----------------------------|---------------------------|----------------------------|
| LED Count (x10) | 4000K | | 5700K | |
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 04 | 4,418 | B1 U0 G1 | 4,505 | B1 U0 G1 |
| 06 | 6,551 | B2 U0 G1 | 6,681 | B2 U0 G1 |
| 08 | 8,735 | B2 U0 G2 | 8,908 | B2 U0 G2 |
| 10 | 10,892 | B2 U0 G2 | 11,108 | B2 U0 G2 |
| 12 | 13,071 | B2 U0 G2 | 13,330 | B2 U0 G2 |
| 525mA | | | | |
| 04 | 6,270 | B1 U0 G1 | 6,401 | B2 U0 G1 |
| 06 | 9,297 | B2 U0 G2 | 9,492 | B2 U0 G2 |
| 08 | 12,396 | B2 U0 G2 | 12,656 | B2 U0 G2 |
| 10 | 15,458 | B2 U0 G3 | 15,782 | B2 U0 G3 |
| 12 | 18,549 | B3 U0 G3 | 18,938 | B3 U0 G3 |
| 700mA | | | | |
| 04 | 7,400 | B2 U0 G2 | 7,550 | B2 U0 G2 |
| 06 | 10,973 | B2 U0 G2 | 11,196 | B2 U0 G2 |

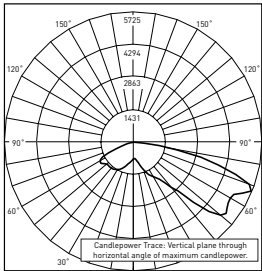
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf



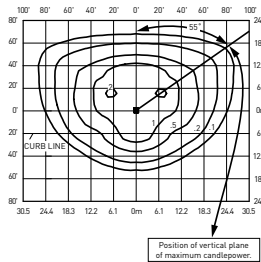
Photometry

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3M



RESTL Test Report #: PL09276-001A
ARE-EDG-3M-**-06-E-UL-700-40K
Initial Delivered Lumens: 11,333



ARE-EDR-3M-**-06-E-UL-700-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 11,779
Initial FC at grade

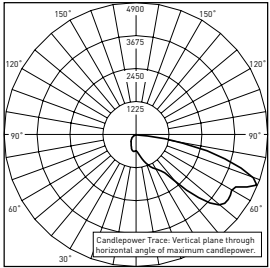
| Type III Medium Distribution | | | | |
|------------------------------|---------------------------|----------------------------|---------------------------|----------------------------|
| LED Count (x10) | 4000K | | 5700K | |
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 04 | 4,743 | B1 U0 G1 | 4,837 | B1 U0 G1 |
| 06 | 7,033 | B2 U0 G2 | 7,172 | B2 U0 G2 |
| 08 | 9,377 | B2 U0 G2 | 9,563 | B2 U0 G2 |
| 10 | 11,693 | B3 U0 G3 | 11,925 | B3 U0 G3 |
| 12 | 14,032 | B3 U0 G3 | 14,310 | B3 U0 G3 |
| 525mA | | | | |
| 04 | 6,731 | B2 U0 G2 | 6,872 | B2 U0 G2 |
| 06 | 9,981 | B3 U0 G3 | 10,190 | B3 U0 G3 |
| 08 | 13,307 | B3 U0 G3 | 13,586 | B3 U0 G3 |
| 10 | 16,594 | B3 U0 G3 | 16,942 | B3 U0 G3 |
| 12 | 19,913 | B3 U0 G3 | 20,330 | B3 U0 G3 |
| 700mA | | | | |
| 04 | 7,944 | B2 U0 G2 | 8,105 | B2 U0 G2 |
| 06 | 11,779 | B3 U0 G3 | 12,019 | B3 U0 G3 |

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf

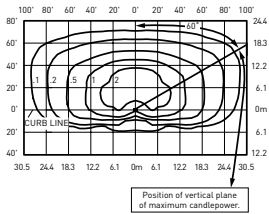
Photometry

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3MB



CSA Test Report #: 6648
ARE-EDG-3MB-**-06-E-UL-700
Initial Delivered Lumens: 7,740



ARE-EDR-3MB-**-10-E-UL-525-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 12,275
Initial FC at grade

| Type III Medium Distribution w/BLS | | | | |
|------------------------------------|---------------------------|----------------------------|---------------------------|----------------------------|
| LED Count (x10) | 4000K | | 5700K | |
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 04 | 3,508 | B1 U0 G1 | 3,578 | B1 U0 G1 |
| 06 | 5,202 | B1 U0 G2 | 5,305 | B1 U0 G2 |
| 08 | 6,936 | B1 U0 G2 | 7,074 | B1 U0 G2 |
| 10 | 8,650 | B1 U0 G2 | 8,821 | B1 U0 G2 |
| 12 | 10,380 | B1 U0 G3 | 10,585 | B1 U0 G3 |
| 525mA | | | | |
| 04 | 4,979 | B1 U0 G2 | 5,083 | B1 U0 G2 |
| 06 | 7,383 | B1 U0 G2 | 7,538 | B1 U0 G2 |
| 08 | 9,844 | B1 U0 G2 | 10,050 | B1 U0 G3 |
| 10 | 12,275 | B1 U0 G3 | 12,532 | B1 U0 G3 |
| 12 | 14,730 | B2 U0 G3 | 15,039 | B2 U0 G3 |
| 700mA | | | | |
| 04 | 5,876 | B1 U0 G2 | 5,996 | B1 U0 G2 |
| 06 | 8,714 | B1 U0 G2 | 8,891 | B1 U0 G2 |

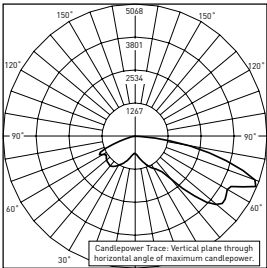
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf

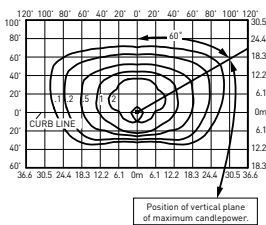
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: <http://lighting.cree.com/products/outdoor/area/cree-edge-series-1>

3MP



CSA Test Report #: 6385
ARE-EDG-3MP-**-06-E-UL-700-40K
Initial Delivered Lumens: 9,619



ARE-EDR-3MP-**-10-E-UL-525-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 14,548
Initial FC at grade

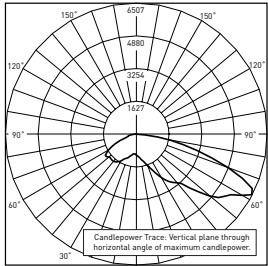
| Type III Medium Distribution w/Partial BLS | | | | |
|--|---------------------------|----------------------------|---------------------------|----------------------------|
| LED Count (x10) | 4000K | | 5700K | |
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 04 | 4,158 | B1 U0 G1 | 4,240 | B1 U0 G1 |
| 06 | 6,166 | B1 U0 G2 | 6,288 | B1 U0 G2 |
| 08 | 8,221 | B2 U0 G2 | 8,384 | B2 U0 G2 |
| 10 | 10,252 | B2 U0 G2 | 10,455 | B2 U0 G3 |
| 12 | 12,302 | B2 U0 G3 | 12,546 | B2 U0 G3 |
| 525mA | | | | |
| 04 | 5,901 | B1 U0 G2 | 6,024 | B1 U0 G2 |
| 06 | 8,750 | B2 U0 G2 | 8,933 | B2 U0 G2 |
| 08 | 11,667 | B2 U0 G3 | 11,911 | B2 U0 G3 |
| 10 | 14,548 | B3 U0 G3 | 14,853 | B3 U0 G3 |
| 12 | 17,458 | B3 U0 G3 | 17,824 | B3 U0 G3 |
| 700mA | | | | |
| 04 | 6,964 | B2 U0 G2 | 7,106 | B2 U0 G2 |
| 06 | 10,327 | B2 U0 G2 | 10,537 | B2 U0 G3 |

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf

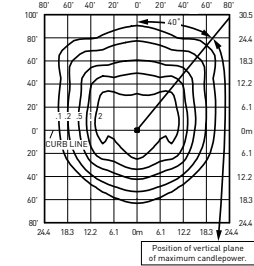
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: <http://lighting.cree.com/products/outdoor/area/cree-edge-series-1>

4M



CSA Test Report #: 6438
ARE-EDG-4M-**-06-E-UL-700-40K
Initial Delivered Lumens: 11,367



ARE-EDR-4M-**-10-E-UL-525-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 17,504
Initial FC at grade

| Type IV Medium Distribution | | | | |
|-----------------------------|---------------------------|----------------------------|---------------------------|----------------------------|
| LED Count (x10) | 4000K | | 5700K | |
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 04 | 5,003 | B2 U0 G1 | 5,102 | B2 U0 G1 |
| 06 | 7,418 | B2 U0 G2 | 7,565 | B2 U0 G2 |
| 08 | 9,891 | B2 U0 G2 | 10,087 | B2 U0 G2 |
| 10 | 12,334 | B3 U0 G3 | 12,578 | B3 U0 G3 |
| 12 | 14,801 | B3 U0 G3 | 15,094 | B3 U0 G3 |
| 525mA | | | | |
| 04 | 7,099 | B2 U0 G2 | 7,248 | B2 U0 G2 |
| 06 | 10,527 | B2 U0 G2 | 10,748 | B2 U0 G2 |
| 08 | 14,037 | B3 U0 G3 | 14,331 | B3 U0 G3 |
| 10 | 17,504 | B3 U0 G3 | 17,870 | B3 U0 G3 |
| 12 | 21,004 | B3 U0 G3 | 21,444 | B3 U0 G3 |
| 700mA | | | | |
| 04 | 8,379 | B2 U0 G2 | 8,549 | B2 U0 G2 |
| 06 | 12,425 | B3 U0 G3 | 12,678 | B3 U0 G3 |

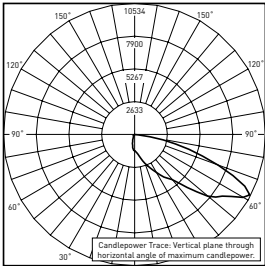
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf



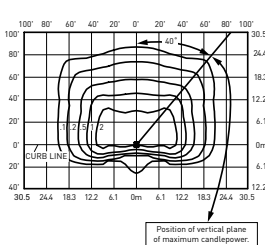
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: <http://lighting.cree.com/products/outdoor/area/cree-edge-series-1>

4MB



CSA Test Report #: 6449
ARE-EDG-4MB-**-12-E-UL-525-40K
Initial Delivered Lumens: 13,155



ARE-EDR-4MB-**-10-E-UL-525-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 13,185
Initial FC at grade

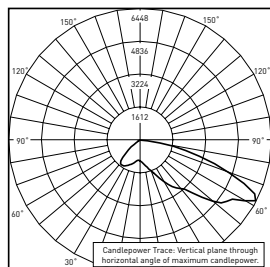
| Type IV Medium Distribution w/BLS | | | | |
|-----------------------------------|---------------------------|----------------------------|---------------------------|----------------------------|
| LED Count (x10) | 4000K | | 5700K | |
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 04 | 3,768 | B1 U0 G1 | 3,843 | B1 U0 G1 |
| 06 | 5,588 | B1 U0 G1 | 5,698 | B1 U0 G2 |
| 08 | 7,450 | B1 U0 G2 | 7,598 | B1 U0 G2 |
| 10 | 9,291 | B1 U0 G2 | 9,475 | B1 U0 G2 |
| 12 | 11,149 | B1 U0 G2 | 11,370 | B1 U0 G2 |
| 525mA | | | | |
| 04 | 5,348 | B1 U0 G1 | 5,460 | B1 U0 G1 |
| 06 | 7,930 | B1 U0 G2 | 8,096 | B1 U0 G2 |
| 08 | 10,573 | B1 U0 G2 | 10,794 | B1 U0 G2 |
| 10 | 13,185 | B1 U0 G2 | 13,461 | B1 U0 G2 |
| 12 | 15,821 | B2 U0 G3 | 16,153 | B2 U0 G3 |
| 700mA | | | | |
| 04 | 6,311 | B1 U0 G2 | 6,440 | B1 U0 G2 |
| 06 | 9,359 | B1 U0 G2 | 9,549 | B1 U0 G2 |

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf

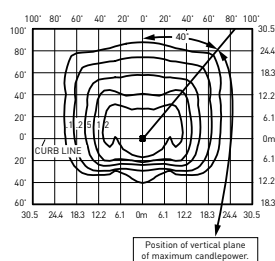
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: <http://lighting.cree.com/products/outdoor/area/cree-edge-series-1>

4MP



CSA Test Report #: 6417
ARE-EDG-4MP-**-06-E-UL-700-40K
Initial Delivered Lumens: 9,989



ARE-EDR-4MP-**-10-E-UL-525-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 15,458
Initial FC at grade

Type IV Medium Distribution w/Partial BLS

| LED Count (x10) | 4000K | | 5700K | |
|-----------------|---------------------------|----------------------------|---------------------------|----------------------------|
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 04 | 4,418 | B1 U0 G1 | 4,505 | B1 U0 G1 |
| 06 | 6,551 | B2 U0 G1 | 6,681 | B2 U0 G1 |
| 08 | 8,735 | B2 U0 G2 | 8,908 | B2 U0 G2 |
| 10 | 10,892 | B2 U0 G2 | 11,108 | B2 U0 G2 |
| 12 | 13,071 | B2 U0 G2 | 13,330 | B2 U0 G2 |
| 525mA | | | | |
| 04 | 6,270 | B2 U0 G1 | 6,401 | B2 U0 G1 |
| 06 | 9,297 | B2 U0 G2 | 9,492 | B2 U0 G2 |
| 08 | 12,396 | B2 U0 G2 | 12,656 | B2 U0 G2 |
| 10 | 15,458 | B3 U0 G2 | 15,782 | B3 U0 G2 |
| 12 | 18,549 | B3 U0 G2 | 18,938 | B3 U0 G3 |
| 700mA | | | | |
| 04 | 7,400 | B2 U0 G2 | 7,550 | B2 U0 G2 |
| 06 | 10,973 | B2 U0 G2 | 11,196 | B2 U0 G2 |

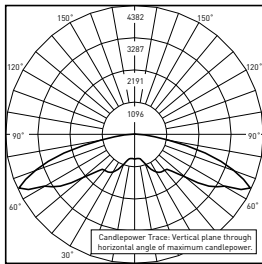
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

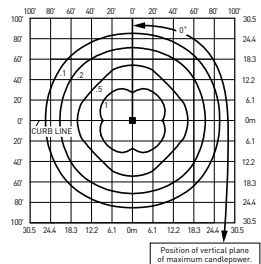
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: <http://lighting.cree.com/products/outdoor/area/cree-edge-series-1>

5M



RESTLTest Report #: PL09285-001
ARE-EDG-5M-**-06-E-UL-700-40K
Initial Delivered Lumens: 13,136



ARE-EDR-5M-**-06-E-UL-700-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 13,070
Initial FC at grade

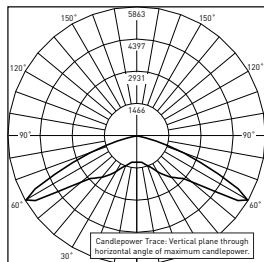
| Type V Medium Distribution | | | | |
|----------------------------|---------------------------|----------------------------|---------------------------|----------------------------|
| LED Count (x10) | 4000K | | 5700K | |
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 04 | 5,262 | B3 U0 G1 | 5,367 | B3 U0 G1 |
| 06 | 7,804 | B3 U0 G2 | 7,958 | B3 U0 G2 |
| 08 | 10,405 | B4 U0 G2 | 10,611 | B4 U0 G2 |
| 10 | 12,975 | B4 U0 G2 | 13,232 | B4 U0 G2 |
| 12 | 15,570 | B4 U0 G3 | 15,878 | B4 U0 G3 |
| 525mA | | | | |
| 04 | 7,468 | B3 U0 G2 | 7,625 | B3 U0 G2 |
| 06 | 11,074 | B4 U0 G2 | 11,306 | B4 U0 G2 |
| 08 | 14,766 | B4 U0 G2 | 15,075 | B4 U0 G3 |
| 10 | 18,413 | B4 U0 G3 | 18,799 | B4 U0 G3 |
| 12 | 22,096 | B5 U0 G3 | 22,558 | B5 U0 G3 |
| 700mA | | | | |
| 04 | 8,814 | B3 U0 G2 | 8,993 | B3 U0 G2 |
| 06 | 13,070 | B4 U0 G2 | 13,336 | B4 U0 G2 |

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

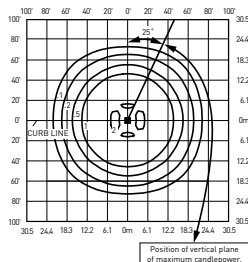
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: <http://lighting.cree.com/products/outdoor/area/cree-edge-series-1>

55



Restl Test Report #: PL09286-001A
ARE-EDG-5S-**-06-E-UL-700-40K
Initial Delivered Lumens: 14,123



ARE-EDR-5S-**-06-E-UL-700-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 14,523
Initial FC at grade

Type V Short Distribution

| LED Count (x10) | 4000K | | 5700K | |
|-----------------|---------------------------|----------------------------|---------------------------|----------------------------|
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 04 | 5,847 | B3 U0 G1 | 5,963 | B3 U0 G1 |
| 06 | 8,671 | B3 U0 G1 | 8,842 | B3 U0 G1 |
| 08 | 11,561 | B3 U0 G2 | 11,790 | B3 U0 G2 |
| 10 | 14,416 | B4 U0 G2 | 14,702 | B4 U0 G2 |
| 12 | 17,300 | B4 U0 G2 | 17,642 | B4 U0 G2 |
| 525mA | | | | |
| 04 | 8,298 | B3 U0 G1 | 8,472 | B3 U0 G1 |
| 06 | 12,305 | B3 U0 G2 | 12,563 | B3 U0 G2 |
| 08 | 16,406 | B4 U0 G2 | 16,750 | B4 U0 G2 |
| 10 | 20,459 | B4 U0 G2 | 20,887 | B4 U0 G2 |
| 12 | 24,551 | B4 U0 G2 | 25,065 | B4 U0 G2 |
| 700mA | | | | |
| 04 | 9,793 | B3 U0 G1 | 9,993 | B3 U0 G2 |
| 06 | 14,523 | B4 U0 G2 | 14,818 | B4 U0 G2 |

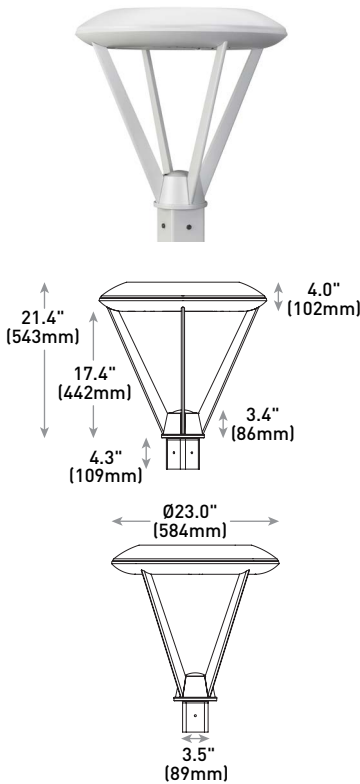
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

Luminaire EPA

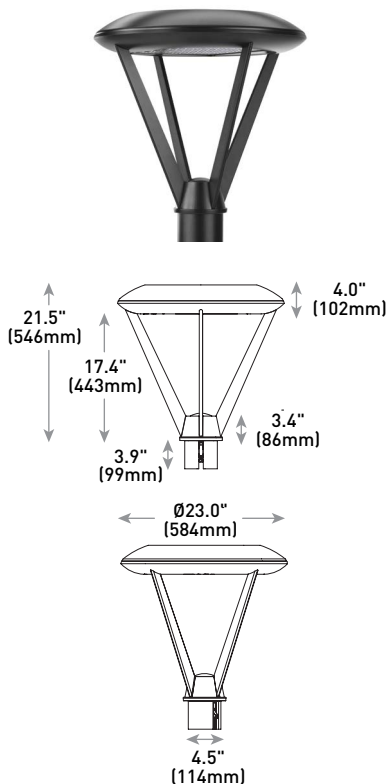
| Post Top Mount – ARE-EDR-R3/R4/R5 | | |
|-----------------------------------|-----------|--------------|
| LED Count (x10) | Single R3 | Single R4/R5 |
| 04 | 1.81 | 1.67 |
| 06 | 1.81 | 1.67 |
| 08 | 1.81 | 1.67 |
| 10 | 1.81 | 1.67 |
| 12 | 1.81 | 1.67 |

R4 Mount



| LED Count (x10) | Weight |
|-----------------|--------------------|
| 04 | 36.2 lbs. (16.4kg) |
| 06 | 37.6 lbs. (17.0kg) |
| 08 | 39.3 lbs. (17.8kg) |
| 10 | 43.0 lbs. (19.5kg) |
| 12 | 44.8 lbs. (20.3kg) |

R5 Mount



| LED Count (x10) | Weight |
|-----------------|--------------------|
| 04 | 33.3 lbs. (15.1kg) |
| 06 | 34.6 lbs. (15.7kg) |
| 08 | 36.4 lbs. (16.5kg) |
| 10 | 40.1 lbs. (18.2kg) |
| 12 | 41.9 lbs. (19.0kg) |

LED Security Wall Pack Luminaire

W1

Product Description

The Cree Edge™ wall mount luminaire has a slim, low profile design. The luminaire end caps are made from rugged die cast aluminum with integral, weathertight LED driver compartments and high performance aluminum heat sinks specifically designed for LED applications. Housing is rugged aluminum. Includes a lightweight mounting box for installation over standard and mud ring single gang J-Boxes. Secures to wall with four 3/16" (5mm) screws (by others). Conduit entry from top, bottom, sides and rear. Allows mounting for uplight or downlight. Designed and approved for easy through-wiring. Includes leaf/debris guard.

Applications: General area and security lighting

Performance Summary

Patented NanoOptic® Product Technology

Made in the U.S.A. of U.S. and imported parts

CRI: Minimum 70 CRI

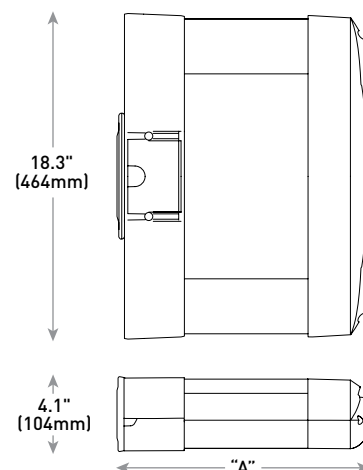
CCT: 4000K (+/- 300K), 5700K (+/- 500K) standard

Limited Warranty†: 10 years on luminaire/10 years on Colorfast DeltaGuard® finish

[†] See <http://lighting.cree.com/warranty> for warranty terms

Accessories

| Field-Installed | |
|---------------------------------|--|
| Bird Spikes XA-BRDSPK | Hand-Held Remote XA-SENSREM - For successful implementation of the programmable multi-level option, a minimum of one hand-held remote is required |



| LED Count (x10) | Dim. "A" | Weight |
|-----------------|---------------|------------------|
| 02 | 9.9" [251mm] | 20 lbs. [9.1kg] |
| 04 | 11.9" [303mm] | 22 lbs. [10.0kg] |
| 06 | 13.9" [353mm] | 25 lbs. [11.3kg] |
| 08 | 15.9" [404mm] | 27 lbs. [12.2kg] |
| 10 | 17.9" [455mm] | 31 lbs. [14.1kg] |
| 12 | 19.9" [505mm] | 32 lbs. [14.5kg] |

Ordering Information

Example: SEC-EDG-2M-WM-06-E-UL-SV-700

| SEC-EDG | | WM | | E | | | | |
|---------|--|------------------|--|--------|--|--|---|--|
| Product | Optic | Mounting | LED Count (x10) | Series | Voltage | Color Options | Drive Current | Options |
| SEC-EDG | 2M Type II Medium 2MB Type II Medium w/BLS 2S Type II Short 2SB Type II Short w/BLS 3M Type III Medium 3MB Type III Medium w/BLS 4M Type IV Medium 4MB Type IV Medium w/BLS | WM Wall Mount | 02 04 06 08 10 12 | E | UL Universal 120-277V BZ Bronze UH Universal 347-480V 34 347V | BK Black BZ Bronze SV Silver WH White | 350 350mA 525 525mA -Available with 20-80 LEDs 700 700mA -Available with 20-60 LEDs | DIM 0-10V Dimming - Control by others - Refer to Dimming spec sheet for details - Can't exceed specified drive current F Fuse - Refer to ML spec sheet for availability with ML options - Available with UL voltage only - Available for U.S. applications only - When code dictates fusing, use time delay fuse ML Multi-Level - Refer to ML spec sheet for details - Intended for downlight applications with 0° tilt P Photocell - Refer to ML spec sheet for availability with ML options - Must specify UL or 34 voltage PML Programmable Multi-Level - Refer to PML spec sheet for details - Intended for downlight applications with 0° tilt 40K 4000K Color Temperature - Minimum 70 CRI - Color temperature per luminaire |



US: lighting.cree.com

T (800) 236-6800 F (262) 504-5415

Rev. Date: V3 09/06/2017

Canada: www.cree.com/canada



T (800) 473-1234 F (800) 890-7507

Product Specifications

CONSTRUCTION & MATERIALS

- Slim, low profile design
- Luminaire sides are rugged die cast aluminum with integral, weathertight LED driver compartment and high performance aluminum heat sinks specifically designed for LED applications
- Housing is rugged aluminum
- Furnished with low copper, light weight mounting box designed for installation over standard and mud ring single gang J-Boxes
- Luminaire can also be direct mounted to a wall and surface wired
- Secures to wall with four 3/16" (5mm) screws (by others)
- Conduit entry from top, bottom, sides, and rear
- Allows mounting for uplight or downlight
- Designed and approved for easy through-wiring
- Includes leaf/debris guard
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultradurable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Black, bronze, silver and white are available
- **Weight:** See Dimensions and Weight Chart on page 1

ELECTRICAL SYSTEM

- **Input Voltage:** 120–277V or 347–480V, 50/60Hz, Class 1 drivers
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Integral weathertight J-Box with leads (wire nuts) for easy power hook up
- Integral 10kV surge suppression protection standard
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current
- **Maximum 10V Source Current:** 20 LED (350mA): 10mA; 20LED (525 & 700 mA) and 40-120 LED: 0.15mA

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- Meets FCC Part 15, Subpart B, Class A standards for conducted and radiated emissions
- Enclosure rated IP66 per IEC 60529 when ordered without P, PML or ML options
- 10kV surge suppression protection tested in accordance with IEEE/ANSI C62.41.2
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- DLC qualified with select SKUs. Refer to <https://www.designlights.org/search/> for most current information
- Meets Buy American requirements within ARRA

Electrical Data*

| LED Count (x10) | System Watts 120-480V | Total Current (A) | | | | | |
|--------------------|-----------------------------|-------------------|------|------|------|------|------|
| | | 120V | 208V | 240V | 277V | 347V | 480V |
| 350mA | | | | | | | |
| 02 | 25 | 0.21 | 0.13 | 0.11 | 0.10 | 0.08 | 0.07 |
| 04 | 46 | 0.36 | 0.23 | 0.21 | 0.20 | 0.15 | 0.12 |
| 06 | 66 | 0.52 | 0.31 | 0.28 | 0.26 | 0.20 | 0.15 |
| 08 | 90 | 0.75 | 0.44 | 0.38 | 0.34 | 0.26 | 0.20 |
| 10 | 110 | 0.92 | 0.53 | 0.47 | 0.41 | 0.32 | 0.24 |
| 12 | 130 | 1.10 | 0.63 | 0.55 | 0.48 | 0.38 | 0.28 |
| 525mA | | | | | | | |
| 02 | 37 | 0.30 | 0.19 | 0.17 | 0.16 | 0.12 | 0.10 |
| 04 | 70 | 0.58 | 0.34 | 0.31 | 0.28 | 0.21 | 0.16 |
| 06 | 101 | 0.84 | 0.49 | 0.43 | 0.38 | 0.30 | 0.22 |
| 08 | 133 | 1.13 | 0.66 | 0.58 | 0.51 | 0.39 | 0.28 |
| 700mA | | | | | | | |
| 02 | 50 | 0.41 | 0.25 | 0.22 | 0.20 | 0.15 | 0.12 |
| 04 | 93 | 0.78 | 0.46 | 0.40 | 0.36 | 0.27 | 0.20 |
| 06 | 134 | 1.14 | 0.65 | 0.57 | 0.50 | 0.39 | 0.29 |

* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V +/- 10%

Recommended Cree Edge™ Series Lumen Maintenance Factors (LMF)¹

| Ambient | Initial LMF | 25K hr Projected ² LMF | 50K hr Projected ² LMF | 75K hr Calculated ³ LMF | 100K hr Calculated ³ LMF |
|-------------|----------------|---|---|--|---|
| 5°C (41°F) | 1.04 | 1.01 | 0.99 | 0.98 | 0.96 |
| 10°C (50°F) | 1.03 | 1.00 | 0.98 | 0.97 | 0.95 |
| 15°C (59°F) | 1.02 | 0.99 | 0.97 | 0.96 | 0.94 |
| 20°C (68°F) | 1.01 | 0.98 | 0.96 | 0.95 | 0.93 |
| 25°C (77°F) | 1.00 | 0.97 | 0.95 | 0.94 | 0.92 |

¹ Lumen maintenance values at 25°C are calculated per TM-21 based on LM-80 data and in-situ luminaire testing

² In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times

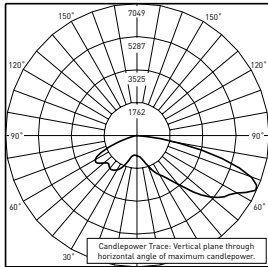
(6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip)

³ In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip)

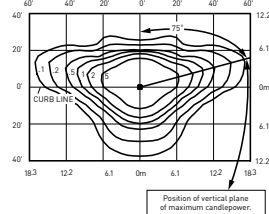
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: <http://lighting.cree.com/products/outdoor/wall-mount/cree-edge-series-5>

2M

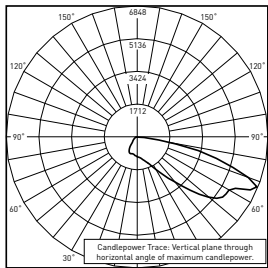


ITL Test Report #: 79174
SEC-EDG-2M-**-06-E-UL-700-40K
Initial Delivered Lumens: 11,128

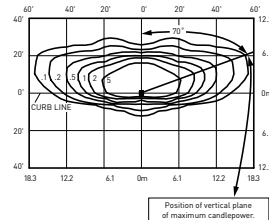


SEC-EDG-2M-**-08-E-UL-525-40K
Mounting Height: 10' (3.0m) A.F.G.
Initial Delivered Lumens: 11,835
Initial FC at grade

2MB



CSA Test Report #: 6447
ARE-EDG-2MB-**-06-E-UL-700-40K
Initial Delivered Lumens: 7,953



SEC-EDG-2MB-**-08-E-UL-525-40K
Mounting Height: 10' (3.0m) A.F.G.
Initial Delivered Lumens: 8,915
Initial FC at grade

Type II Medium Distribution

| LED Count (x10) | 4000K | | 5700K | |
|--------------------|---------------------------------|----------------------------------|---------------------------------|----------------------------------|
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 02 | 2,138 | B1 U0 G1 | 2,220 | B1 U0 G1 |
| 04 | 4,276 | B1 U0 G1 | 4,440 | B1 U0 G1 |
| 06 | 6,340 | B2 U0 G2 | 6,584 | B2 U0 G2 |
| 08 | 8,454 | B2 U0 G2 | 8,779 | B2 U0 G2 |
| 10 | 10,542 | B3 U0 G3 | 10,947 | B3 U0 G3 |
| 12 | 12,650 | B3 U0 G3 | 13,137 | B3 U0 G3 |
| 525mA | | | | |
| 02 | 2,993 | B1 U0 G1 | 3,108 | B1 U0 G1 |
| 04 | 5,986 | B2 U0 G2 | 6,216 | B2 U0 G2 |
| 06 | 8,876 | B2 U0 G2 | 9,218 | B2 U0 G2 |
| 08 | 11,835 | B3 U0 G3 | 12,290 | B3 U0 G3 |
| 700mA | | | | |
| 02 | 3,656 | B1 U0 G1 | 3,796 | B1 U0 G1 |
| 04 | 7,311 | B2 U0 G2 | 7,593 | B2 U0 G2 |
| 06 | 10,842 | B3 U0 G3 | 11,259 | B3 U0 G3 |

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

Type II Medium Distribution w/BLS

| LED Count (x10) | 4000K | | 5700K | |
|--------------------|---------------------------------|----------------------------------|---------------------------------|----------------------------------|
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 02 | 1,610 | B0 U0 G1 | 1,672 | B0 U0 G1 |
| 04 | 3,221 | B0 U0 G1 | 3,345 | B0 U0 G1 |
| 06 | 4,776 | B1 U0 G1 | 4,959 | B1 U0 G1 |
| 08 | 6,368 | B1 U0 G1 | 6,613 | B1 U0 G2 |
| 10 | 7,941 | B1 U0 G2 | 8,246 | B1 U0 G2 |
| 12 | 9,529 | B1 U0 G2 | 9,895 | B1 U0 G2 |
| 525mA | | | | |
| 02 | 2,254 | B0 U0 G1 | 2,341 | B0 U0 G1 |
| 04 | 4,509 | B1 U0 G1 | 4,682 | B1 U0 G1 |
| 06 | 6,686 | B1 U0 G2 | 6,943 | B1 U0 G2 |
| 08 | 8,915 | B1 U0 G2 | 9,258 | B1 U0 G2 |
| 700mA | | | | |
| 02 | 2,754 | B0 U0 G1 | 2,860 | B0 U0 G1 |
| 04 | 5,507 | B1 U0 G1 | 5,719 | B1 U0 G1 |
| 06 | 8,167 | B1 U0 G2 | 8,481 | B1 U0 G2 |

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

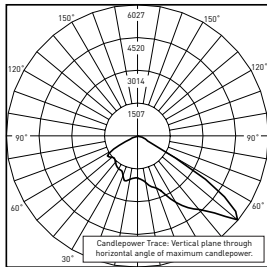
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>



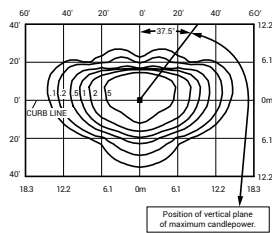
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: <http://lighting.cree.com/products/outdoor/wall-mount/cree-edge-series-5>

25

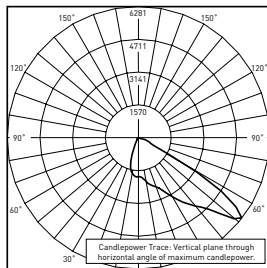


ITL Test Report #: 79175
SEC-EDG-25-**-06-E-UL-700-40K
Initial Delivered Lumens: 11,704

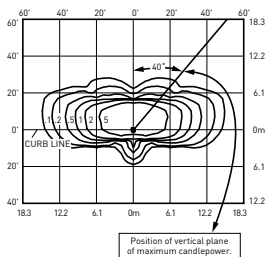


SEC-EDG-25-**-08-E-UL-525-40K
Mounting Height: 10' (3.0m) A.F.G.
Initial Delivered Lumens: 12,604
Initial FC at grade

25B



CSA Test Report #: 6454
ARE-EDG-25B-**-06-E-UL-700-40K
Initial Delivered Lumens: 9,202



SEC-EDG-25B-**-08-E-UL-525-40K
Mounting Height: 10' (3.0m) A.F.G.
Initial Delivered Lumens: 9,683
Initial FC at grade

| Type II Short Distribution | | | | |
|----------------------------|---------------------------|----------------------------|---------------------------|----------------------------|
| LED Count (x10) | 4000K | | 5700K | |
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 02 | 2,277 | B1 U0 G1 | 2,364 | B1 U0 G1 |
| 04 | 4,553 | B1 U0 G1 | 4,728 | B1 U0 G1 |
| 06 | 6,752 | B2 U0 G2 | 7,012 | B2 U0 G2 |
| 08 | 9,003 | B2 U0 G2 | 9,349 | B2 U0 G2 |
| 10 | 11,226 | B3 U0 G3 | 11,658 | B3 U0 G3 |
| 12 | 13,472 | B3 U0 G3 | 13,990 | B3 U0 G3 |
| 525mA | | | | |
| 02 | 3,187 | B1 U0 G1 | 3,310 | B1 U0 G1 |
| 04 | 6,375 | B2 U0 G2 | 6,620 | B2 U0 G2 |
| 06 | 9,453 | B2 U0 G2 | 9,816 | B3 U0 G3 |
| 08 | 12,604 | B3 U0 G3 | 13,088 | B3 U0 G3 |
| 700mA | | | | |
| 02 | 3,893 | B1 U0 G1 | 4,043 | B1 U0 G1 |
| 04 | 7,786 | B2 U0 G2 | 8,086 | B2 U0 G2 |
| 06 | 11,546 | B3 U0 G3 | 11,990 | B3 U0 G3 |

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

| Type II Short Distribution w/BLS | | | | |
|----------------------------------|---------------------------|----------------------------|---------------------------|----------------------------|
| LED Count (x10) | 4000K | | 5700K | |
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 02 | 1,749 | B0 U0 G1 | 1,816 | B0 U0 G1 |
| 04 | 3,498 | B1 U0 G1 | 3,633 | B1 U0 G1 |
| 06 | 5,188 | B1 U0 G1 | 5,387 | B1 U0 G1 |
| 08 | 6,917 | B1 U0 G1 | 7,183 | B1 U0 G1 |
| 10 | 8,625 | B2 U0 G1 | 8,957 | B2 U0 G1 |
| 12 | 10,350 | B2 U0 G2 | 10,748 | B2 U0 G2 |
| 525mA | | | | |
| 02 | 2,449 | B1 U0 G1 | 2,543 | B1 U0 G1 |
| 04 | 4,898 | B1 U0 G1 | 5,086 | B1 U0 G1 |
| 06 | 7,263 | B1 U0 G1 | 7,542 | B1 U0 G1 |
| 08 | 9,683 | B2 U0 G2 | 10,056 | B2 U0 G2 |
| 700mA | | | | |
| 02 | 2,991 | B1 U0 G1 | 3,106 | B1 U0 G1 |
| 04 | 5,982 | B1 U0 G1 | 6,212 | B1 U0 G1 |
| 06 | 8,871 | B2 U0 G1 | 9,212 | B2 U0 G2 |

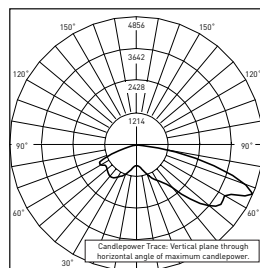
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

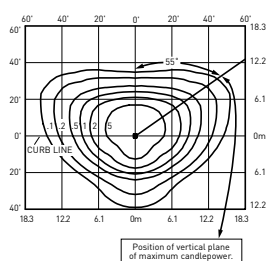
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: <http://lighting.cree.com/products/outdoor/wall-mount/cree-edge-series-5>

3M

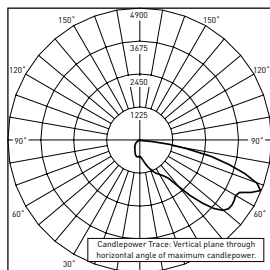


ITL Test Report #: 79173
SEC-EDG-3M-**-06-E-UL-700-40K
Initial Delivered Lumens: 10,343

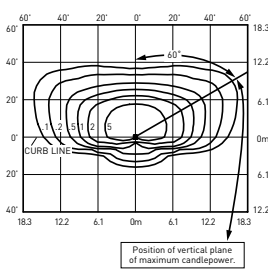


SEC-EDG-3M-**-08-E-UL-525-40K
Mounting Height: 10' (3.0m) A.F.G.
Initial Delivered Lumens: 11,220
Initial FC at grade

3MB



CSA Test Report #: 6448
ARE-EDG-3MB-**-06-E-UL-700
Initial Delivered Lumens: 7,740



SEC-EDG-3MB-**-08-E-UL-525-40K
Mounting Height: 10' (3.0m) A.F.G.
Initial Delivered Lumens: 8,300
Initial FC at grade

| Type III Medium Distribution | | | | |
|------------------------------|---------------------------|----------------------------|---------------------------|----------------------------|
| LED Count (x10) | 4000K | | 5700K | |
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 02 | 2,027 | B1 U0 G1 | 2,105 | B1 U0 G1 |
| 04 | 4,054 | B1 U0 G1 | 4,209 | B1 U0 G1 |
| 06 | 6,011 | B2 U0 G2 | 6,242 | B2 U0 G2 |
| 08 | 8,015 | B2 U0 G2 | 8,323 | B2 U0 G2 |
| 10 | 9,994 | B3 U0 G3 | 10,379 | B3 U0 G3 |
| 12 | 11,993 | B3 U0 G3 | 12,454 | B3 U0 G3 |
| 525mA | | | | |
| 02 | 2,837 | B1 U0 G1 | 2,947 | B1 U0 G1 |
| 04 | 5,675 | B2 U0 G2 | 5,893 | B2 U0 G2 |
| 06 | 8,415 | B2 U0 G2 | 8,739 | B2 U0 G2 |
| 08 | 11,220 | B3 U0 G3 | 11,652 | B3 U0 G3 |
| 700mA | | | | |
| 02 | 3,466 | B1 U0 G1 | 3,599 | B1 U0 G1 |
| 04 | 6,932 | B2 U0 G2 | 7,198 | B2 U0 G2 |
| 06 | 10,279 | B3 U0 G3 | 10,674 | B3 U0 G3 |

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit:
<https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

| Type III Medium Distribution w/BLS | | | | |
|------------------------------------|---------------------------|----------------------------|---------------------------|----------------------------|
| LED Count (x10) | 4000K | | 5700K | |
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 02 | 1,499 | B1 U0 G1 | 1,557 | B1 U0 G1 |
| 04 | 2,999 | B1 U0 G1 | 3,114 | B1 U0 G1 |
| 06 | 4,446 | B1 U0 G1 | 4,617 | B1 U0 G1 |
| 08 | 5,929 | B1 U0 G2 | 6,157 | B1 U0 G2 |
| 10 | 7,393 | B1 U0 G2 | 7,677 | B1 U0 G2 |
| 12 | 8,872 | B1 U0 G2 | 9,213 | B1 U0 G2 |
| 525mA | | | | |
| 02 | 2,099 | B1 U0 G1 | 2,180 | B1 U0 G1 |
| 04 | 4,198 | B1 U0 G1 | 4,359 | B1 U0 G1 |
| 06 | 6,225 | B1 U0 G2 | 6,464 | B1 U0 G2 |
| 08 | 8,300 | B1 U0 G2 | 8,619 | B1 U0 G2 |
| 700mA | | | | |
| 02 | 2,564 | B1 U0 G1 | 2,662 | B1 U0 G1 |
| 04 | 5,127 | B1 U0 G2 | 5,325 | B1 U0 G2 |
| 06 | 7,603 | B1 U0 G2 | 7,896 | B1 U0 G2 |

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

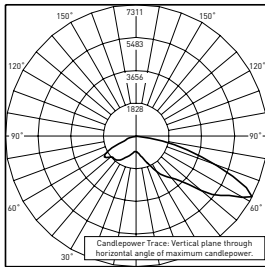
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit:
<https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>



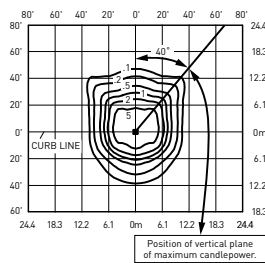
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: <http://lighting.cree.com/products/outdoor/wall-mount/cree-edge-series-5>

4M



ITL Test Report #: 78793
SEC-EDG-4M-**-06-E-UL-700-40K
Initial Delivered Lumens: 11,607



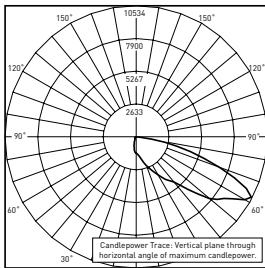
SEC-EDG-4M-**-08-E-UL-525-40K
Mounting Height: 10' (3.0m) A.F.G.
Initial Delivered Lumens: 11,835
Initial FC at grade

| Type IV Medium Distribution | | | | |
|-----------------------------|---------------------------|----------------------------|---------------------------|----------------------------|
| LED Count (x10) | 4000K | | 5700K | |
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 02 | 2,138 | B1 U0 G1 | 2,220 | B1 U0 G1 |
| 04 | 4,276 | B1 U0 G1 | 4,440 | B1 U0 G1 |
| 06 | 6,340 | B2 U0 G2 | 6,584 | B2 U0 G2 |
| 08 | 8,454 | B2 U0 G2 | 8,779 | B2 U0 G2 |
| 10 | 10,542 | B2 U0 G2 | 10,947 | B3 U0 G3 |
| 12 | 12,650 | B3 U0 G3 | 13,137 | B3 U0 G3 |
| 525mA | | | | |
| 02 | 2,993 | B1 U0 G1 | 3,108 | B1 U0 G1 |
| 04 | 5,986 | B2 U0 G2 | 6,216 | B2 U0 G2 |
| 06 | 8,876 | B2 U0 G2 | 9,218 | B2 U0 G2 |
| 08 | 11,835 | B3 U0 G3 | 12,290 | B3 U0 G3 |
| 700mA | | | | |
| 02 | 3,656 | B1 U0 G1 | 3,796 | B1 U0 G1 |
| 04 | 7,311 | B2 U0 G2 | 7,593 | B2 U0 G2 |
| 06 | 10,842 | B3 U0 G3 | 11,259 | B3 U0 G3 |

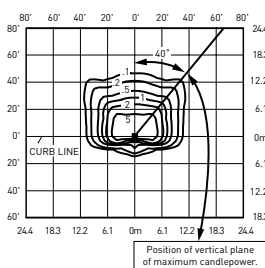
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit:
<https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

4MB



CSA Test Report #: 6449
ARE-EDG-4MB-**-12-E-UL-525-40K
Initial Delivered Lumens: 13,155



SEC-EDG-4MB-**-08-E-UL-525-40K
Mounting Height: 10' (3.0m) A.F.G.
Initial Delivered Lumens: 8,915
Initial FC at grade

| Type IV Medium Distribution w/BLS | | | | |
|-----------------------------------|---------------------------|----------------------------|---------------------------|----------------------------|
| LED Count (x10) | 4000K | | 5700K | |
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 02 | 1,610 | B0 U0 G1 | 1,672 | B0 U0 G1 |
| 04 | 3,221 | B1 U0 G1 | 3,345 | B1 U0 G1 |
| 06 | 4,776 | B1 U0 G1 | 4,959 | B1 U0 G1 |
| 08 | 6,368 | B1 U0 G2 | 6,613 | B1 U0 G2 |
| 10 | 7,941 | B1 U0 G2 | 8,246 | B1 U0 G2 |
| 12 | 9,529 | B1 U0 G2 | 9,895 | B1 U0 G2 |
| 525mA | | | | |
| 02 | 2,254 | B0 U0 G1 | 2,341 | B0 U0 G1 |
| 04 | 4,509 | B1 U0 G1 | 4,682 | B1 U0 G1 |
| 06 | 6,686 | B1 U0 G2 | 6,943 | B1 U0 G2 |
| 08 | 8,915 | B1 U0 G2 | 9,258 | B1 U0 G2 |
| 700mA | | | | |
| 02 | 2,754 | B0 U0 G1 | 2,860 | B0 U0 G1 |
| 04 | 5,507 | B1 U0 G1 | 5,719 | B1 U0 G2 |
| 06 | 8,167 | B1 U0 G2 | 8,481 | B1 U0 G2 |

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit:
<https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>



Washer Quattro AC XB RGBW

The Washer Quattro AC XB RGBW is an AC line powered, high brightness luminaire. The luminaire is controllable via DMX512 with auto-addressing for easy configuration. The system is connected using a daisy chain topology, allowing easy installation to form long run lengths. Remote Device Management (RDM) circuits are built into each luminaire that enables extensive control and monitoring of the entire lighting installation.



Product Specifications

| | |
|---|--|
| Light Source | 4-in-1 LED cluster × 18 |
| Color Range | RGBW (White CCT 4000K) |
| Beam Angle | 13°, 30°, 40°, 60° |
| Luminous Flux | 3212 lm (13°) |
| Efficacy | 44 lm/W |
| Lumen Maintenance | L70 @25°C - 80,000hrs |
| Cover Lens | Tempered glass cover |
| Housing | Aluminium |
| Adjustment Options | 360° horizontal, 220° vertical |
| Size (W × H × D) | 291mm × 291mm × 218mm 11.5" × 11.5" × 8.6" |
| Weight | 8.3kg / 18.3lbs |
| Regulatory Listing & Safety Approval | CE, cETLus |
| Operating Temperature | –30°C to +50°C / –22°F to +122°F (–20°C / –4°F starting) |
| Storage Temperature | –40°C to +70°C / –40°F to +158°F |
| Environment | Outdoor (IP66) |
| Humidity | 85%, non-condensing |

Electrical Specifications

| | |
|----------------------------|---------------------|
| Input Voltage ¹ | 100-277V AC 50/60Hz |
| Power Consumption | 85W |
| Power Factor | ≥ 0.9 |

System Specifications

| | |
|--------------|---|
| Power | AC line |
| Control | DMX512 with auto-addressing, Remote Device Management (RDM) |
| Power Supply | Built-in |

1. Auto-switching. Single phase (line, neutral, and ground).

LED CHARACTERISTICS Because LEDs are semiconductor devices, their performances are subject to inherent variability commonly found in semiconductor industry. To improve consistency in performance across the same product, LED manufacturers "sort" LEDs into bins according to different preset parameters, such as forward driving voltage, illumination, etc. Whereas binning is a sorting function, it is not a correction process. Inherent variability in the manufacturing process results always in different binning distributions according to different production lots. Traxon uses automatically binned LEDs on its products, thereby minimizing output variations within the model range.

As with all electronic devices, LED output degrades over time – a term called lumen depreciation. This also explains why it is nearly impossible to expect photometric performances of two LED products with different service life spans to be the same. The rate of LED degrade is a complicate function of many factors such as operating efficiency, duration of continuous operation, and more significantly, environmental conditions (ambient temperature for example). If allowed working under optimal operating temperature range and with good ventilation, LED devices enjoy long service lives over conventional light sources. When using/installing LED devices, care should be taken to ensure that the devices will operate within the operating conditions specified in respective product literature.

Lumen measurement complies with LM-79-08 standard.
Lumen maintenance is calculated based on LM-80 compliant measurement.

www.traxontechnologies.com

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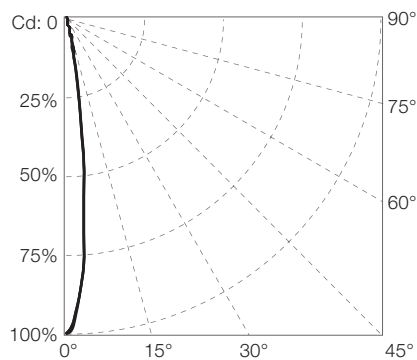
Washer Quattro AC XB RGBW

Photometrics

Source Specifications

| | |
|------------|---------------------|
| LED Source | 4-in-1 LED clusters |
| Beam Angle | 13° |

Candela Distribution



Light Output

| Color | Luminous Flux (lm) | Candela Distribution @100% | Efficacy (lm/W) |
|-----------------|--------------------|----------------------------|-----------------|
| White (full on) | 3212.32 | 35479.21 | 43.50 |
| White (RGB off) | 1791.46 | 20068.63 | 58.22 |
| RGB | 1502.16 | 16221.28 | 30.59 |
| Red | 369.01 | 3871.815 | 29.47 |
| Green | 1066.45 | 11719.53 | 37.33 |
| Blue | 92.98 | 989.538 | 5.25 |

Illuminance at a Distance

| | Center Beam LUX | Beam Width | V | H |
|-----|-----------------|------------|------|------|
| 2m | 8869.80 | 0.5m | 0.5m | 0.5m |
| 4m | 2217.45 | 0.9m | 0.9m | 0.9m |
| 6m | 985.53 | 1.4m | 1.4m | 1.4m |
| 8m | 554.36 | 1.9m | 1.9m | 1.9m |
| 10m | 354.79 | 2.4m | 2.4m | 2.3m |
| 12m | 246.38 | 2.8m | 2.8m | 2.8m |

● Vert.Spread: 13.5°

● Horiz.Spread: 13.3°

For feet multiply by 3.28

For fc divide by 10.7

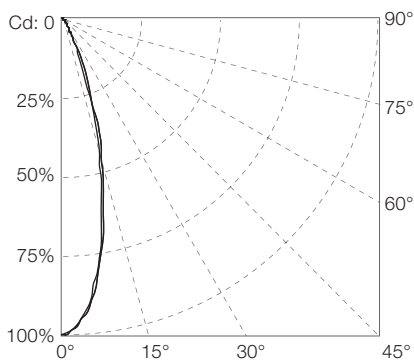
Washer Quattro AC XB RGBW

Photometrics

Source Specifications

| | |
|------------|---------------------|
| LED Source | 4-in-1 LED clusters |
| Beam Angle | 30° |

Candela Distribution



Light Output

| Color | Luminous Flux (lm) | Candela Distribution @100% | Efficacy (lm/W) |
|-----------------|--------------------|----------------------------|-----------------|
| White (full on) | 2931.38 | 8112.26 | 39.7 |
| White (RGB off) | 1633.76 | 4543.98 | 53.1 |
| RGB | 1354.69 | 3723.67 | 27.58 |
| Red | 346.23 | 947.72 | 27.65 |
| Green | 970.62 | 2662.60 | 33.97 |
| Blue | 84.59 | 222.96 | 4.78 |

Illuminance at a Distance

| | Center Beam LUX | Beam Width V H |
|-----|-----------------|-------------------|
| 2m | 2028.07 | 1.1m 1.0m |
| 4m | 507.02 | 2.2m 2.1m |
| 6m | 225.34 | 3.3m 3.1m |
| 8m | 126.75 | 4.4m 4.2m |
| 10m | 81.12 | 5.5m 5.2m |
| 12m | 56.34 | 6.6m 6.2m |

● Vert.Spread: 30.6°
● Horiz.Spread: 29.2°
For fc divide by 10.7

For feet multiply by 3.28

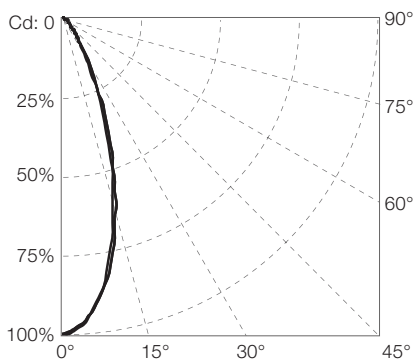
Washer Quattro AC XB RGBW

Photometrics

Source Specifications

| | |
|------------|---------------------|
| LED Source | 4-in-1 LED clusters |
| Beam Angle | 40° |

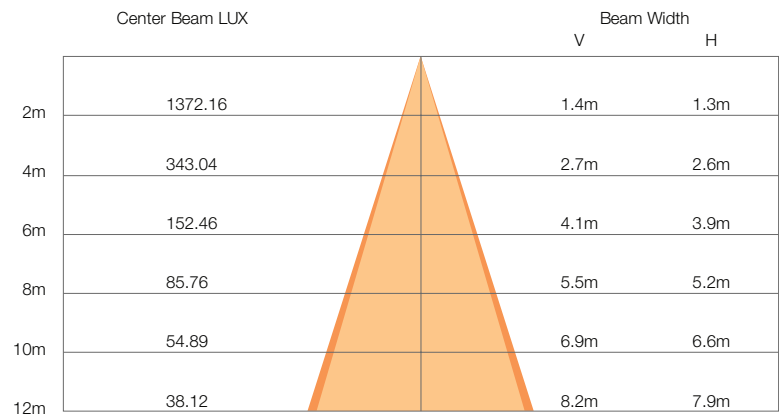
Candela Distribution



Light Output

| Color | Luminous Flux (lm) | Candela Distribution @100% | Efficacy (lm/W) |
|-----------------|--------------------|----------------------------|-----------------|
| White (full on) | 2895.92 | 5488.632 | 39.22 |
| White (RGB off) | 1610.9 | 3217.009 | 52.35 |
| RGB | 1351.95 | 2660.115 | 27.53 |
| Red | 337.75 | 670.243 | 26.98 |
| Green | 960.79 | 1885.462 | 33.63 |
| Blue | 83.49 | 156.96 | 4.71 |

Illuminance at a Distance



Vert.Spread: 37.9°

Horiz.Spread: 36.3°

For feet multiply by 3.28

For fc divide by 10.7

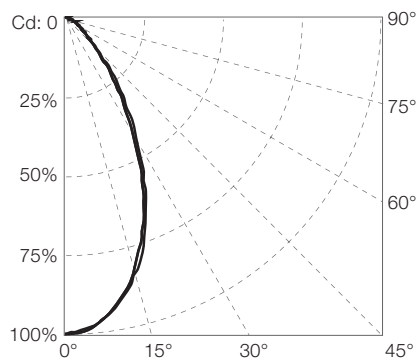
Washer Quattro AC XB RGBW

Photometrics

Source Specifications

| | |
|------------|---------------------|
| LED Source | 4-in-1 LED clusters |
| Beam Angle | 60° |

Candela Distribution



Light Output

| Color | Luminous Flux (lm) | Candela Distribution @100% | Efficacy (lm/W) |
|-----------------|--------------------|----------------------------|-----------------|
| White (full on) | 2845.25 | 2788.23 | 38.53 |
| White (RGB off) | 1592.87 | 1582.855 | 51.77 |
| RGB | 1332.38 | 1310.367 | 27.13 |
| Red | 332.48 | 330.717 | 26.56 |
| Green | 947.08 | 929.712 | 33.15 |
| Blue | 82.51 | 78.437 | 4.66 |

Illuminance at a Distance

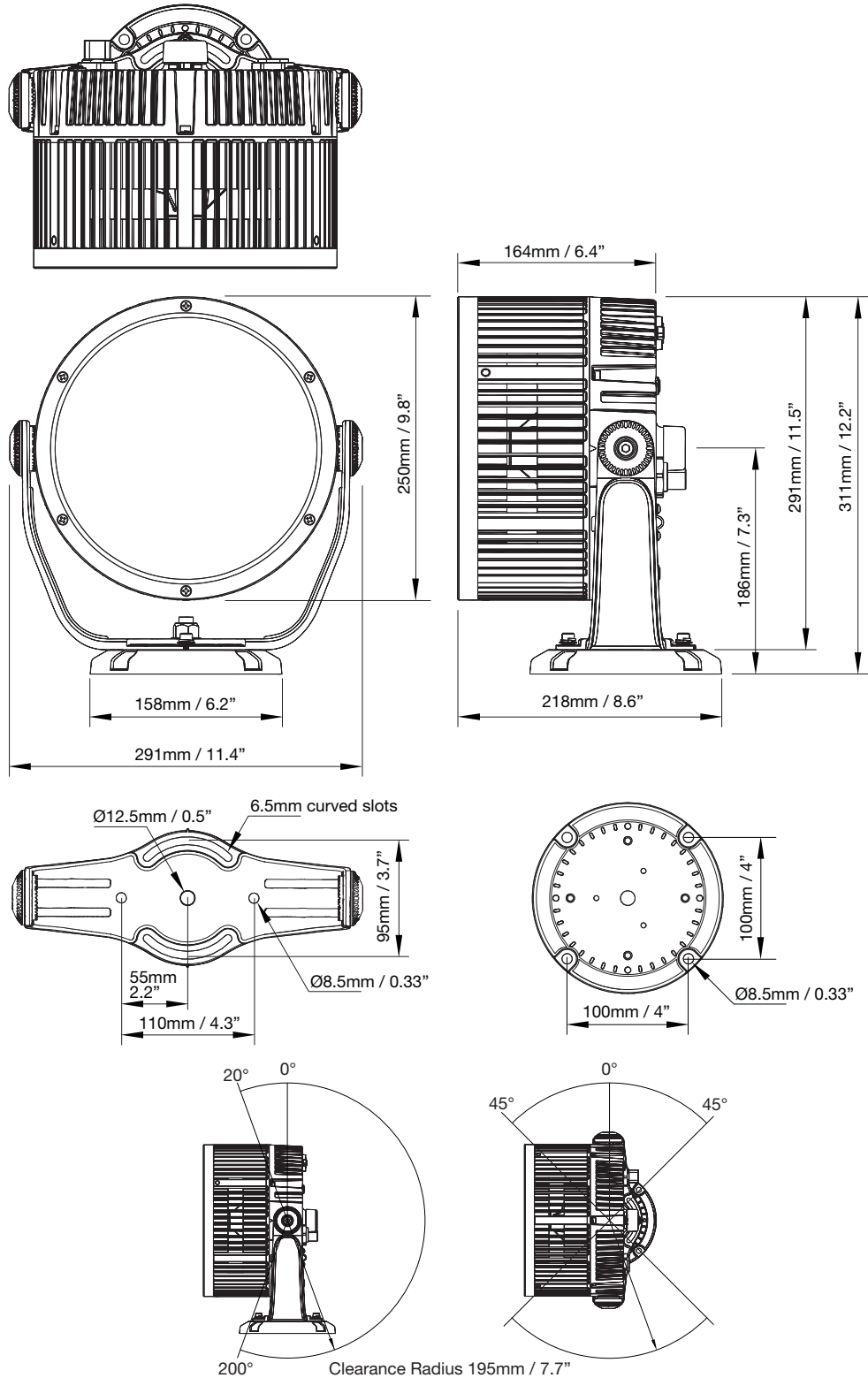
| | Center Beam LUX | Beam Width | V | H |
|-----|-----------------|------------|-------|---|
| 2m | 696.18 | 2.2m | 2.1m | |
| 4m | 174.05 | 4.4m | 4.2m | |
| 6m | 77.35 | 6.5m | 6.3m | |
| 8m | 43.51 | 8.7m | 8.4m | |
| 10m | 27.85 | 10.9m | 10.5m | |
| 12m | 19.34 | 13.1m | 12.6m | |

Vert.Spread: 57.2°

Horiz.Spread: 55.4°

For feet multiply by 3.28

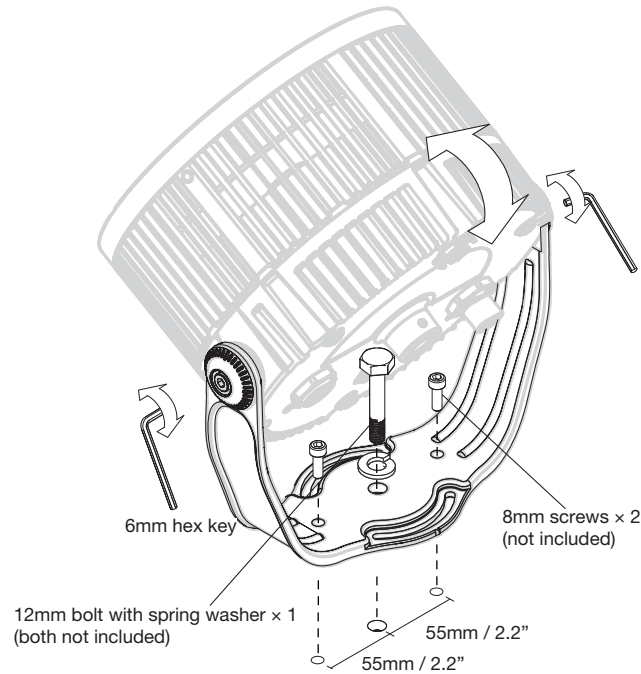
For fc divide by 10.7



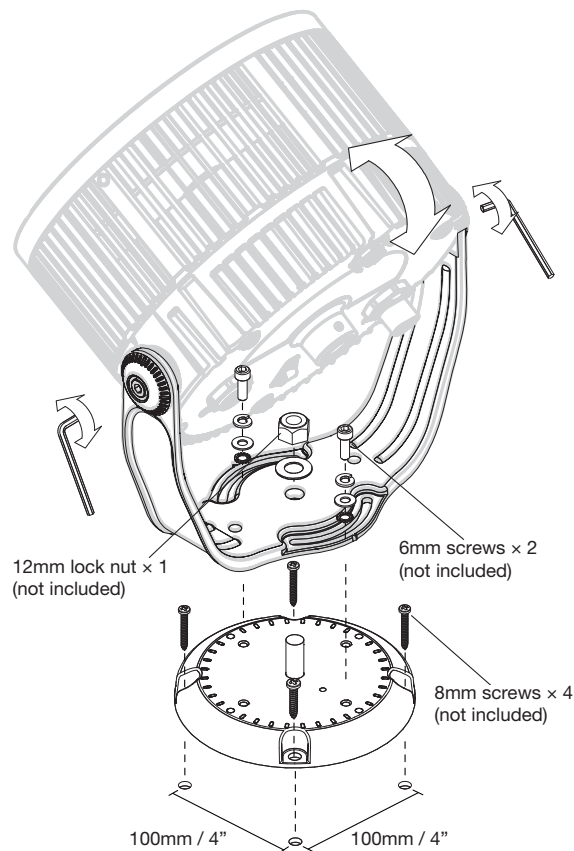
Washer Quattro AC XB RGBW

Mounting

Mounting without base



Mounting with base



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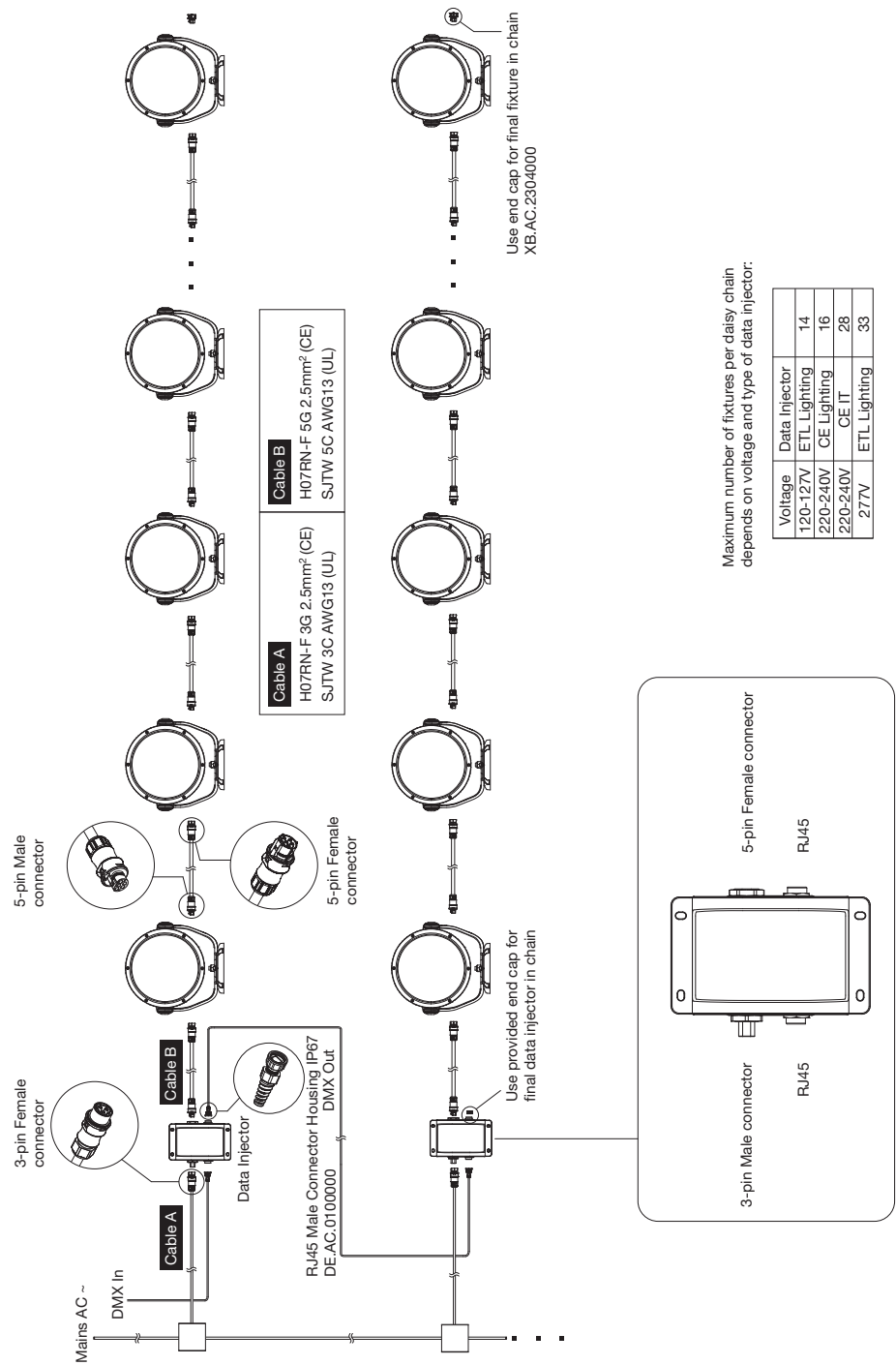
Product Specification

11/16 V1.0

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Washer Quattro AC XB RGBW

System Diagram





Washer Quattro AC XB RGBW

[Ordering](#)

Model Number

| | | | | | | | | | | |
|-----------|----------|-----------|----------|--------------------|----------|----------|------------|------------|----------|----------|
| XB | . | W5 | . | 9 | 3 | 1 | N | 1 | 0 | 0 |
| | | | | Ingress Protection | | Color | Beam Angle | Cover Lens | | |
| | | | | 3: IP66 | | 1: RGBW | 1: 13° | 1: Clear | | |
| | | | | | | | 3: 30° | | | |
| | | | | | | | 6: 40° | | | |
| | | | | | | | 8: 60° | | | |

Fixtures

| Model No. | Description | Item Code |
|---------------|-----------------------------------|-------------|
| XB.W5.9311100 | Washer Quattro AC XB4.18 RGBW 13° | AB486980055 |
| XB.W5.9313100 | Washer Quattro AC XB4.18 RGBW 30° | AB487130055 |
| XB.W5.9316100 | Washer Quattro AC XB4.18 RGBW 40° | AB487100055 |
| XB.W5.9318100 | Washer Quattro AC XB4.18 RGBW 60° | AB487080055 |

Accessories

| Model No. | Description | Item Code |
|---------------|--|-------------|
| XB.AC.4000000 | Quattro AC XB Data Injector (ETL Lighting / CE IT) | AB389160055 |
| XB.AC.4000100 | Quattro AC XB Data Injector (CE Lighting) | AB444880055 |
| XB.AC.2302000 | 5-pin Field Installable AC Male Connector IP66 | AA438580235 |
| XB.AC.2303000 | 5-pin Field Installable AC Female Connector IP66 | AA438570235 |
| XB.AC.4006000 | 3-pin Field Installable AC Female Connector IP66 | AB389040035 |
| XE.ID.0204000 | AC XB Interconnection Cable, 5-wire, CE (2m) | AB389130055 |
| XE.ID.0204001 | AC XB Interconnection Cable, 5-wire, UL (6.5ft) | AB389120055 |
| XE.ID.0074000 | AC XB Interconnection Cable, 5-wire, CE (0.7m) | AB389100055 |
| XE.ID.0074001 | AC XB Interconnection Cable, 5-wire, UL (2.33ft) | AB389070055 |
| XE.IF.0104000 | AC XB Power Cable, 3-wire, CE (1m) | AB389060055 |
| XE.IF.0104001 | AC XB Power Cable, 3-wire, UL (3.25ft) | AB389050055 |
| DE.AC.0100000 | RJ45 Male Connector Housing IP67 | AA556100155 |
| XB.AC.2304000 | 5-pin Connector Socket End Cap IP66 | AA508870335 |



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