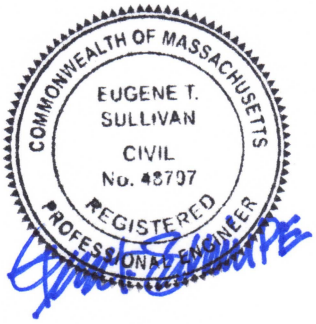
# ***LEVEL 2 UNIFIED PERMIT APPLICATION***

35 SARATOGA BOULEVARD

DEVENS, MASSACHUSETTS

APRIL 7, 2022




PROJECT: 35 Saratoga Bouelvard
Devens, MA

APPLICANT: 35 Saratoga Property Owner, LLC
133 Pearl Street
Boston, MA

**EUGENE T. SULLIVAN INC.**
*Consulting Engineers & Construction Managers*

April 7, 2022

**PROJECT:** **PROPOSED BUILDING**
**35 Saratoga Boulevard**
**Devens, Massachusetts**

We herein provide the following documents/ information regarding the proposed Industrial Building to be constructed at 3 Saratoga Boulevard, Devens, Massachusetts:

- Permit Application Form
- Administrative, Processing and Peer Review Fee.
- The Following Plans are included as a part of this Application:
  - Civil Engineering Plans prepared by ETS Inc.
- Industrial Performance Standards Checklist
- Long Term Pollution and Operation/Maintenance Plans
- LEED Green Building Rating System Project Checklist
- Certified Abutters list

It is our intention to submit, no later than April 20th, the following additional documents:

- Building Elevations of the Proposed Building
- Landscaping Plan
- Stormwater Systems designs, calculations and report, and Operation and Maintenance Plan
- Construction Details sheets

**Consistent with the LEVEL TWO UNIFIED PERMIT, we provide the following information:**

1(b): The estimated Hard Costs for Construction are as follows:

| | | |
|---|---|---|
| General Conditions | $ | 280,000.00 |
| Sitework and Utilities | $ | 2,350,000.00 |
| Concrete Work | $ | 1,300.000.00 |
| Masonry | $ | 240,000.00 |
| Steel | $ | 2,400,000.00 |
| Carpentry | $ | 56,000.00 |
| Thermal Moisture | $ | 540,000.00 |
| Doors, Glass, and Glazing | $ | 236,000.00 |
| Finishes | $ | 560,000.00 |
| Specialties | $ | 48,000.00 |
| Equipment | $ | 265,000.00 |
| Plumbing | $ | 256,000.00 |
| Fire Protection | $ | 380,000.00 |
| HVAC | $ | 460,000.00 |
| Electrical/Fire Alarm | $ | 750,000.00 |
| ***TOTAL PROJECT COST*** | ***$*** | ***10,121,000.00*** |

1(d): A certified abutters list has been provided

230 Lowell Street – Suite 2A, Wilmington, Massachusetts 01887 PH: 978.657.6469 Email: etspe@aol.com

1(e): Stormwater Calculations will be provided as a supplement to this filing

1(f): This project is outside the jurisdiction of the Wetlands Protection Act.

1(g): There are no new easements, covenants, restrictions and or Industrial Controls as part of this application. There are existing easements for utilities on the property which will be reconfigured and/or abandoned.

1(h): Soil testing logs will be included in the Stormwater Report.

1(i): We are not requesting any Waivers of Submission, Plan Form and Contents requirements.

1 (j): There are not any variances applying to the land, granted, or filed concurrently with this site plan.

1(k): The proposed tenant will utilize this facility for office, warehousing and distribution of their goods which is consistent with the allowed uses in the Rail, Industrial and Trade zoning district

1(l): This project does not involve phasing of the construction of the project.

1(m): Based upon our review of the Devens open Space and Recreation Plan [DOSRP] and the Devens Post Trails Report, it is our opinion that our proposed development will not have any adverse effects on resource areas, proposed trail rights of way, active and passive recreation areas or other amenities included in the DOSRP.

1(n): N/A

1 (o): The proposed tenant has normal business operations between the hours of 7:00 am and 11:00 pm. It is estimated that the use will generate between 20 and 30 truck trips per day.

1(p): An Erosion and Sediment Controls plan [EC.1] is part of this application

1(q): A landscaping maintenance and water management plans is included in this application

1(r): This development is in compliant with the Industrial Performance Standards. The proposed development and associated activities will not produce any increases in sound, vibration, air quality, odor, dust, lighting and/or electromagnetic interference. The development will not have any adverse impacts on its neighbors and surrounding facilities within Devens.

1(s): The checklist has been included in this application

1(t): Building Elevations will be submitted at a later date

1(u): The building elevations will be submitted to Mass Development design review.

1(v): N/A

1(w): The Proposed Tenant will join the Devens Eco-Efficiency Center and demonstrate compliance with EcoStar Standard 24- Climate Change Mitigation.

3 (c,d): See zoning calculations and table on C.2

3 (f): A landscaping plan will be provided

3(i): No irrigation is proposed as part of this development

3 (j): We have added a fire lane is provided along Barnum Road to allow access for the fire department.

3 (l): We are not proposing any new underground tanks on this property.

3 (m): [2] Compactors are shown on the plan set.

3 (o): The largest vehicles serving this site will be an Interstate Semitrailer [WB-67] which is 8.5 feet wide by 73.5 feet long.

3 (p): All proposed signage [to be designed later] will be in conformance with Article XIII of the By-Laws and 974 CMR 6.00.

3 (r ): This project does not involve phasing of the construction of the project.

4 (a): A site lighting layout, lighting specifications and a photometric are part of this application

5 (a): There are no wetland/water resources located on this property.

5 (c): There are not any private wells within 200 feet of the boundaries of the property.

5 (d): There are not any public or community wells supply wells within 1,000 feet of the property boundaries.

5 (e): There are no proposed conservation restrictions associated with this project.

5 (f) We are not proposing to store fuel, combustible and/or flammable liquids as part of this application.

If you have any questions regarding this project, please contact me.

Sincerely,

Eugene T. Sullivan P.E.

C:\Project Description.doc

COMMONWEALTH OF MASSACHUSETTS
EUGENE T. SULLIVAN
CIVIL
No. 48707
REGISTERED
PROFESSIONAL ENGINEER

## *DEVENS ENTERPRISE COMMISSION*

DEC NO. _____
DATE: _____
FEE: _____

**DEVENS REGIONAL ENTERPRISE ZONE**
**PERMIT APPLICATION** **LEVEL 2**

==========

**ESTIMATED COST OF CONSTRUCTION / IMPROVEMENTS** $ 10,121,000

**OWNER** 35 Saratoga Property Owner, LLC
**ADDRESS** 133 Pearl Street
**TOWN/STATE** Boston, MA 02110
**PHONE** 617.292.0101
**FAX** _____

**SIGNATURE**

Steve Goodman- Manager
Type or print name and title

**APPLICANT** same as Owner
**ADDRESS** _____
**TOWN/STATE** _____
**PHONE** _____
**FAX** _____

**SIGNATURE**

Type or print name and title

If appropriate, attach a separate sheet with the name(s), address(es), and telephone/fax numbers for the project engineer, attorney, or other "development team" personnel.

SITE / LOCATION / STREET 35 Saratoga Boulevard

LOT SIZE / TOTAL PARCEL / ZONING DISTRICT: 9.12 Acres / Rail and industrial Trade

==========

**STATEMENT OF PROPOSED WORK OR ACTIVITY:** Construction of new Industriall Building

==========

**SCOPE OF WORK** (pick the actions that best fit your project or application)

- [X] Site Plan
- [ ] Reconsideration
- [ ] Wetlands NOI
- [ ] Zoning Variance
- [ ] Minor amendment or modification of an approved plan
- [ ] Historic District renovations/addition/alternations
- [ ] Other (Specify) _____

Explain work to be performed: Construction of new 153,000 SF Industrial Building

Comments from Notifying Agencies: _____

# Industrial Performance Standards Checklist for Newly Proposed Projects

All projects within the Devens Regional Enterprise Zone (DREZ) must comply with the Devens Enterprise Commission (DEC) Industrial Performance Standards (IPS) under 974 CMR 4.00. This checklist is intended to assist Applicants in determining at the time of submittal, or ideally before submittal, if their project may or may not involve development and/or activities that may impact sound, vibration, air quality, or lighting within the DREZ.

Site layout, building(s) design/orientation, traffic patterns, location of outdoor equipment and numerous other project components can impact sound, vibration, air quality, and lighting within the DREZ. By identifying any potential IPS concerns early on in the review process, Applicants can design their projects to ensure compliance with the IPS at all times and avoid potential future violations of the IPS and costly mitigation after the fact.

Please note, if a project requires an air permit from the Massachusetts Department of Environmental Protection (DEP), the Applicant will need to initiate permitting through the DEP office as well. Even if a project requires a DEP air permit, the proponent still must demonstrate compliance with the DEC IPS.

Please circle the correct answer to each question in this checklist. Please note that by circling "NO", the Applicant is not relieved of demonstrating compliance with the IPS requirements. If "NO" is circled and a potential concern is identified during the review process, it could temporarily suspend the approval process timeline until the concern is adequately addressed. If "YES" is answered, please explain and provide any supporting studies or information to aid the DEC in their evaluation of the project.

**Project Name** 35 Saratoga Boulevard

**Does the proposed project and associated activities involve any potential increases in sound, vibration, air quality, odor, dust, lighting and/or electromagnetic interference that are covered under the DEC Industrial Performance Standards?**

| YES | NO |
|---|---|

If you answered yes, will the Applicant demonstrate compliance directly or will the project proponent employ an expert to demonstrate compliance? Please provide pertinent contact information of the responsible official:

_____

_____

_____

_____

# Industrial Performance Standards Checklist for Newly Proposed Projects cont…

## Noise

**Does the proposed project have the ability to increase sound?** YES NO

1. Will the increase in sound plus background sound exceed 974 CMR 4.05 (3)a? YES NO

2. Will the total sound plus background sound exceed 974 CMR 4.05 (3)b? YES NO

3. Will the increase in sound create pure tones that will exceed 974 CMR 4.05 (3)c and/or 974 CMR 4.05 (3)d7? YES NO

4. Will the increase in sound create impulsive sounds that will exceed 974 CMR 4.05 (3)d1-6 and/or 974 CMR 4.05 (3)d8? YES NO

5. Are there procedures and controls proposed to reduce sound during earth removal per 974 CMR 4.07(10)? YES NO

**Checklist Options to Demonstrate Sound Compliance**

6. Have all of your potential sound sources been identified? YES NO

7. Will spreadsheet calculations of the potential increase in sound be provided? YES NO

8. Will sound modeling of the proposed project be provided? YES NO

9. Will the facility submit a protocol describing the potential sound monitoring, metrics, and modeling as required? YES NO

10. Does the project propose to collect background sound data (typically 7-days worth of valid data is sufficient)? YES NO

11. If the facility intends to collect background sound data will it include other qualifying weather data such as wind speed, wind direction, sky conditions, etc.? YES NO

12. Is mitigation to reduce the overall sound profile proposed? YES NO

13. Is sound mitigation to be assumed when calculations or modeling is performed? YES NO

14. Is compliance monitoring proposed to demonstrate that the project meets the estimated increases in sound? YES NO

15. Have increases in sound with respect to traffic been considered? YES NO

# Industrial Performance Standards Checklist for Newly Proposed Projects cont…

## Vibration

**Does the proposed project have the ability to increase vibration?** YES NO

16. Will the increase in vibration exceed 974 CMR 4.05 (4)a?? YES NO

**Checklist Options to Demonstrate Vibration Compliance**

17. Have all of the potential vibration sources been identified? YES NO

18. Will spreadsheet calculations of the potential increase in vibration be provided? YES NO

19. Will the proponent provide vibration modeling of the proposed project? YES NO

20. Does the project propose to collect background vibration data? YES NO

21. Is mitigation proposed to reduce the overall vibration profile? YES NO

22. Is vibration mitigation to be assumed when the calculations or modeling performed? YES NO

23. Is compliance monitoring proposed to demonstrate that the project meets the estimated increases in vibration as proposed? YES NO

# Industrial Performance Standards Checklist for Newly Proposed Projects cont…

## Air Quality

**Does the proposed project have the ability to create air, visible, and/or odor emissions?**

| | | |
|---|---|---|
| | YES | NO |
| 24. Will the proposed project meet the air quality standards in 974 CMR 4.02(3) | YES | NO |
| 25. Are there procedures and controls proposed to minimize impacts during earth removal per 974 CMR 4.07(7)? | YES | NO |
| 26. Will the proposed project require a MassDEP air quality permit per 974 CMR 4.02 (1) | YES | NO |

**If the project will require an air permit, then the proponent should set up a meeting with the regional MassDEP office to determine air permitting requirements, and answer the following:**

| | | |
|---|---|---|
| 27. Will the proposed project submit a Limited Plan Approval application? | YES | NO |
| 28. Will the proposed project submit a Non-Major Comprehensive Plan Approval application? | YES | NO |
| 29. Will the proposed project submit a Major Comprehensive Plan Approval application? | YES | NO |
| 30. Will the proposed project be a Title V source? | YES | NO |
| 31. Will the proposed project be a PSD source? | YES | NO |

**Checklist Options to Demonstrate Air Quality Compliance**

| | | |
|---|---|---|
| 32. Have you identified all of your potential air, visible and/or odor sources? | YES | NO |
| 33. Will there be any visible emissions? | YES | NO |
| 34. Will there be any dust emissions? | YES | NO |
| 35. Will there be any odor emissions? | YES | NO |
| 36. Will there be any potential increases in air, odor or dust emissions within the DREZ that will impact any internal or external receptors? | YES | NO |
| 37. Will the project proponent provide spreadsheet calculations of the potential increase in air and/or odor emissions within the DREZ to demonstrate how the increase will not impact any internal or external receptors? | YES | NO |

# Industrial Performance Standards Checklist for Newly Proposed Projects cont…

**Checklist Options to Demonstrate Air Quality Compliance (cont.)**

| | | |
|---|---|---|
| 38. Will the project proponent provide air and/or odor modeling of the proposed project within the DEC or into the neighborhood surrounding the DEC?? | YES | NO |
| 39. Is mitigation proposed to reduce the overall air and/or odor profile? | YES | NO |
| 40. Is air pollution and/or odor control to be assumed when the calculations or modeling is performed? | YES | NO |
| 41. Is compliance monitoring proposed to demonstrate that the project meets the estimated increases in air and/or odor as proposed? | YES | NO |

## Lighting/Illumination

| | | |
|---|---|---|
| **Does the proposed project have the ability to create additional Illumination?** | YES | NO |
| 42. Will lighting meet the illumination standards set forth in 974 CMR 4.04(3)? | YES | NO |
| 43. Have all of the potential light sources been identified? | YES | NO |
| 44. Will spreadsheet calculations of the potential increase in light and how it will not affect the Observatory outlined in 974 CMR 4.04(1) or any external or internal receptors be provided? | YES | NO |
| 45. Is mitigation proposed to reduce the overall light profile? | YES | NO |

## Electromagnetic Interference

| | | |
|---|---|---|
| **Does the proposed project have the ability to create electromagnetic interference?** | YES | NO |
| 46. Have you identified all your potential electromagnetic sources? | YES | NO |
| 47. Are you proposing to provide spreadsheet calculations of the potential increase in electromagnetic interference and how it will not affect any internal or external receptors as per 974 CMR 4.03(3)? | YES | NO |
| 48. Are you proposing any mitigation to reduce your overall electromagnetic profile? | YES | NO |
| 49. Will your project comply with all the electromagnetic requirements under 974 CMR 4.03? | YES | NO |

# LEED v4 for BD+C: New Construction and Major Renovation

Project Checklist

Project Name: 35 SARATOGA BOULEVARD
Date: 4/8/2022

| Y | ? | N | | | |
|---|---|---|---|---|---|
| | | | Credit | Integrative Process | 1 |

| 1 | 0 | 0 | **Location and Transportation** | | 16 |
|---|---|---|---|---|---|
| | | | Credit | LEED for Neighborhood Development Location | 16 |
| | | | Credit | Sensitive Land Protection | 1 |
| | | 0 | Credit | High Priority Site | 2 |
| | | | Credit | Surrounding Density and Diverse Uses | 5 |
| | | | Credit | Access to Quality Transit | 5 |
| 1 | | | Credit | Bicycle Facilities | 1 |
| | | | Credit | Reduced Parking Footprint | 1 |
| | | | Credit | Green Vehicles | 1 |

| 5 | 0 | 0 | **Sustainable Sites** | | 10 |
|---|---|---|---|---|---|
| Y | | | Prereq | Construction Activity Pollution Prevention | Required |
| | | | Credit | Site Assessment | 1 |
| | | | Credit | Site Development - Protect or Restore Habitat | 2 |
| | | | Credit | Open Space | 1 |
| 3 | | | Credit | Rainwater Management | 3 |
| 1 | | | Credit | Heat Island Reduction | 2 |
| 1 | | | Credit | Light Pollution Reduction | 1 |

| 2 | 0 | 0 | **Water Efficiency** | | 11 |
|---|---|---|---|---|---|
| Y | | | Prereq | Outdoor Water Use Reduction | Required |
| Y | | | Prereq | Indoor Water Use Reduction | Required |
| Y | | | Prereq | Building-Level Water Metering | Required |
| 2 | | | Credit | Outdoor Water Use Reduction | 2 |
| 0 | | | Credit | Indoor Water Use Reduction | 6 |
| | | | Credit | Cooling Tower Water Use | 2 |
| 0 | | | Credit | Water Metering | 1 |

| 0 | 0 | 0 | **Energy and Atmosphere** | | 33 |
|---|---|---|---|---|---|
| Y | | | Prereq | Fundamental Commissioning and Verification | Required |
| Y | | | Prereq | Minimum Energy Performance | Required |
| Y | | | Prereq | Building-Level Energy Metering | Required |
| Y | | | Prereq | Fundamental Refrigerant Management | Required |
| | | | Credit | Enhanced Commissioning | 6 |
| | | | Credit | Optimize Energy Performance | 18 |
| | | | Credit | Advanced Energy Metering | 1 |
| | | | Credit | Demand Response | 2 |
| | | | Credit | Renewable Energy Production | 3 |
| | | | Credit | Enhanced Refrigerant Management | 1 |
| | | | Credit | Green Power and Carbon Offsets | 2 |

| 0 | 0 | 0 | **Materials and Resources** | | 13 |
|---|---|---|---|---|---|
| Y | | | Prereq | Storage and Collection of Recyclables | Required |
| Y | | | Prereq | Construction and Demolition Waste Management Planning | Required |
| | | | Credit | Building Life-Cycle Impact Reduction | 5 |
| | | | Credit | Building Product Disclosure and Optimization - Environmental Product Declarations | 2 |
| | | | Credit | Building Product Disclosure and Optimization - Sourcing of Raw Materials | 2 |
| | | | Credit | Building Product Disclosure and Optimization - Material Ingredients | 2 |
| 0 | | | Credit | Construction and Demolition Waste Management | 2 |

| 4 | 0 | 0 | **Indoor Environmental Quality** | | 16 |
|---|---|---|---|---|---|
| Y | | | Prereq | Minimum Indoor Air Quality Performance | Required |
| Y | | | Prereq | Environmental Tobacco Smoke Control | Required |
| | | | Credit | Enhanced Indoor Air Quality Strategies | 2 |
| 2 | | | Credit | Low-Emitting Materials | 3 |
| 1 | | | Credit | Construction Indoor Air Quality Management Plan | 1 |
| | | | Credit | Indoor Air Quality Assessment | 2 |
| | | | Credit | Thermal Comfort | 1 |
| 1 | | | Credit | Interior Lighting | 2 |
| | | | Credit | Daylight | 3 |
| | | | Credit | Quality Views | 1 |
| | | | Credit | Acoustic Performance | 1 |

| 0 | 0 | 0 | **Innovation** | | 6 |
|---|---|---|---|---|---|
| | | | Credit | Innovation | 5 |
| | | | Credit | LEED Accredited Professional | 1 |

| 0 | 0 | 0 | **Regional Priority** | | 4 |
|---|---|---|---|---|---|
| | | | Credit | Regional Priority: Specific Credit | 1 |
| | | | Credit | Regional Priority: Specific Credit | 1 |
| | | | Credit | Regional Priority: Specific Credit | 1 |
| | | | Credit | Regional Priority: Specific Credit | 1 |

| 12 | 0 | 0 | **TOTALS** | Possible Points: | 110 |
|---|---|---|---|---|---|

**Certified:** 40 to 49 points, **Silver:** 50 to 59 points, **Gold:** 60 to 79 points, **Platinum:** 80 to 110

# 100 foot Abutters List Report

Devens, MA
April 06, 2022

**Subject Property:**

| | | | |
|---|---|---|---|
| Parcel Number: | 021.0-0013-1600.0 | Mailing Address: | MCINNIS USA, INC |
| CAMA Number: | 021.0-0013-1600.0 | | 850 CANAL STREET |
| Property Address: | 35 SARATOGA BLVD | | STAMFORD, CT 06902- |

**Abutters:**

| | | | |
|---|---|---|---|
| Parcel Number: | 015.0-0099-0100.0 | Mailing Address: | MDFA |
| CAMA Number: | 015.0-0099-0100.0 | | 99 HIGH STREET 11TH FLOOR |
| Property Address: | 216 BARNUM ROAD | | BOSTON, MA 02110- |
| Parcel Number: | 020.0-0013-1000.0 | Mailing Address: | EXETER 235 BARNUM, LLC |
| CAMA Number: | 020.0-0013-1000.0 | | 13155 NOEL ROAD SUITE 100 |
| Property Address: | 235 BARNUM ROAD | | DALLAS, TX 75240- |
| Parcel Number: | 021.0-0013-0100.0 | Mailing Address: | DEPARTMENT OF THE ARMY DEVENS RESERVE FORCES TRAINING AREA ATTN: AFRC-FAD-PWE, UNIT 10(DEBI QUINN) 30 QUEBEC STREET DEVENS, MA 01434- |
| CAMA Number: | 021.0-0013-0100.0 | | |
| Property Address: | 11 SARATOGA BLVD | | |
| Parcel Number: | 021.0-0013-0400.0 | Mailing Address: | JOSEPH T. RYERSON & SON, INC ATTN: TAX DEPT 227 W. MONROE, 27TH FLOOR CHICAGO, IL 60601- |
| CAMA Number: | 021.0-0013-0400.0 | | |
| Property Address: | 45 SARATOGA BLVD | | |
| Parcel Number: | 021.0-0013-0500.0 | Mailing Address: | BREIT INDUSTRIAL CANYON MA1B01 LLC PO BOX A-3879 CHICAGO, IL 60690-3879 |
| CAMA Number: | 021.0-0013-0500.0 | | |
| Property Address: | 36 SARATOGA BLVD | | |
| Parcel Number: | 021.0-0013-1400.0 | Mailing Address: | LONG, DOUGLAS E & DWIGHT C TRUSTEES OF D & D SARATOGA BOULEVARD RLTY TRUST C/0 INTEGRA COMPANIES 29 SARATOGA BLVD DEVENS, MA 01434- |
| CAMA Number: | 021.0-0013-1400.0 | | |
| Property Address: | 29 SARATOGA BLVD | | |

Lisa Kalinowski Certified By Devens Assessor's Office 4/6/2022

# ***LONG TERM POLLUTION PREVENTION PLAN***

*35 SARATOGA BOULEVARD*

Devens, Massachusetts

APRIL 7, 2022

Prepared by:

Eugene T. Sullivan, Inc.

230 Lowell Street, Suite 2A

Wilmington, MA 01887

[ 978 ] 657.646

## Contact Information/ Responsable Parties

**Operator(s) / Emergency Contact:**
35 Saratoga Property Owner, LLC
133 Pearl Street
Boston, MA 02110
Attention: Will Deshler
Phone: 617.292.0101
Email: wdeshler@gfipartners.com

# OPERATION & MAINTENANCE

# MANUAL

# FOR THE STORM

# DRAINAGE FACILITIES

LOCATED AT:

35 SARATOGA BOULEVARD

Devens, Massachusetts

APRIL 8, 2022

Prepared By:

**Eugene T. Sullivan, Inc.**
*Consulting Engineers*
230 Lowell Street – Suite 2A
Wilmington, Massachusetts
978.657.6469

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**3.0 REGULAR INSPECTION AND MAINTENANCE OF STRUCTURES**

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**3.2 Contechs Water Quality Structure**
**3.3 Porous Pavement**
**3.4 Permeable Pavers**
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**4.0 PAVED AREA AND PARKING LOT SWEEPING**

**5.0 SEDIMENT DISPOSAL**

**6.0 SPILL KITS**

## *1.0 INTRODUCTION*

The Site Stormwater management system for the new parking area have been designed to capture solids. Proper maintenance is essential to the continued effectiveness of the storm drainage facilities.

The drainage facility components include deep sump catch basin, water quality structure, and a Subsurface Infiltration Basin. The drainage facility is designed to limit peak runoff to below the predevelopment conditions, reduce solids load to the outfall and recharge groundwater.

An estimated annual budget of $ 15,000 should be allocated by the site operator for the maintenance and proper operation of the stormwater system.

The following outline contains the procedures and frequency of tasks necessary to manage the system and avoid costly premature component failure. Refer to the labeled project site plan to assist in locating all drainage structures.

## *2.0 INITIAL NEW SYSTEM INSPECTION*

The new system must be initially inspected within the first two months.

### *2.1 Deep Sump Catch Basin*

The drainage system includes new catch basin. All catch basins shall be inspected initially after a major rainfall event for the first couple of months. Initial inspection is intended to observe proper stabilization of the catch basin foundation. There after the catch basins shall be inspected regularly as outlined in Section 3.1.

### *2.2 CONTECH Water Quality Structure*

The drainage system includes a Contechs Water Quality CDS Unit. The unit should be inspected after any major rainfall events for the first couple of months. Initial Inspection is intended to observe proper stabilization of the tank's foundation. There after the tanks should be inspected regularly as outlined in Section 3.2.

### *2.3 Porous Pavement*

Visual inspections are an integral part of system maintenance, this includes monitoring pavement to ensure water drainage, debris accumulation and surface deterioration.

- Check for standing water on the surface of the pavement after a precipitation event. If standing water remains on the pavement 30 minutes after the rainfall has ended, cleaning of the porous pavement is recommended.
- Controlling run-on and debris tracking is key to extending the life of the porous surface. Erosion and sedimentation control of adjacent areas is critical.
- Do not store materials such as sand/salt, and other stockpiles on the porous surfaces.
- Stockpiling snow on porous surfaces is not recommended and will lead to premature clogging.

### *2.4 Permeable Pavers*

Periodic Visual inspections are an integral part of system maintenance, this includes monitoring pavement to ensure water drainage, debris accumulation and surface deterioration. The visual inspections determine that the stormwater is infiltrating into the system. Areas that have pooled standing water on the surface need to be addressed as a remedial repair as opposed to maintenance

- Controlling run-on and debris tracking is key to extending the life of the porous surface. Erosion and sedimentation control of adjacent areas is critical.
- Do not store materials such as sand/salt, and other stockpiles on the porous surfaces.
- Stockpiling snow on porous surfaces is not recommended and will lead to premature clogging.

### *2.5 Cultec Recharge Chambers*

The drainage system includes new Cultec recharge chambers. The chambers operate at peak performance when installed in series with pretreatment. Without proper pretreatment, the effectiveness of the chambers will be severely compromised. The chamber rows will be equipped with 6" diameter access ports located on the piping. These access ports will allow access to the piping rows below to measure sediment.

## *3.0 REGULAR INSPECTION AND MAINTENANCE OF STRUCTURES*

### *3.1 Deep Sump Catch Basins*

The actual removal of sediments, associated pollutants and trash occurs only when sumps are cleaned out; therefore, regular maintenance is required. Most studies have linked the failure of deep sumps to lack of regular maintenance. The more frequent the cleaning, the less likely sediments will be re-suspended and subsequently discharged or carried over.

*Inspection*
Inspect for sediment accumulation every month.

*Maintenance:*

Deep sumps shall be cleaned at least four times a year and at the end of the foliage and snow removal seasons or whenever the depth of the sediments is greater than or equal to ½ the depth from the bottom of the Invert of the lowest pipe in the basin. *See sediment disposal section*.

### *3.2 CONTECH Water Quality CDS Unit*

Inspection of the CDS Unit is essential to effective maintenance to ensure optimum performance.

*Inspection:*

Visual Inspection should ascertain that the system components are in working order and that there are no blockages or obstructions in the inlet and separation screen.
The Inspection should also quantify the accumulations of hydrocarbons, trash, and sediment in the system.
Inspect for sediment accumulation.
Inspect for cracking on the walls.
Inspect for sediment accumulation around the outlet.
Inspect for oil and grease accumulation after every major storm event but at least every month.

*Cleaning:*
Access to the CDS Units is typically achieved through manhole access covers. This allows for the inspection and cleanout of the separation chamber [cylinder and screen] and isolated sump. Also inspect and cleanout the sediment captured and retained outside the screen.

The CDS system should be cleaned when the level of the sediment has reached 75% of the capacity in the isolated sump or when an appreciable level of hydrocarbons and trash has accumulated.

Cleaning of the CDS system should be done during dry weather conditions when no flow is entering the system. Cleanout of the CDS system with a vacuum truck is the most effective method of removing pollutants from the separator. Cleaning of the CDS system is typically done by inserting a vacuum hose into the sump and evacuating the sump of water and pollutants. The area outside the screen should also be cleaned out. In installations were the risk of petroleum spills is small, liquid containments may not accumulate as quickly as sediments. However, the system should be cleaned out immediately in the event of an oil or gasoline spill.

*Maintenance:*

The Separator unit shall be cleaned as necessary or as required by inspection. At minimum the separator tanks should be cleaned at least two times a year, (fall and spring). *See sediment disposal section*.

### *3.3 Porous Pavement*

Regular inspection and maintenance are critical to the effective operation of porous pavement.

Maintenance:

Pavement vacuuming should occur in the spring and fall at a minimum.
A vacuum sweeper shall be used to remove sediment and organic debris on the pavement surface. The sweeper may be fitted with water jets.
Power washing can be an effective tool for cleaning clogged areas. This should occur at mid=pressure typically less than 500 psi and at angle of 30 degrees or less.
For loose debris accumulating on the pavement, a power/leaf blower or gutter broom can be used.

### *3.4 Permeable Pavers*

Regular inspection and maintenance are critical to the effective operation of the permeable pavers. The pavers will require standard BMP practices for pavements surfaces regarding sweeping procedures.

Normal Maintenance:

For loose debris accumulating on the pavement, a power/leaf blower or gutter broom can be used. A dry vacuum type sweeper vacuuming should occur in the spring and fall at a minimum. Additional void materials may be swept into joints and voids if necessary.

Remedial Maintenance:

A vacuum sweeper with water jets, sweeper, and vacuum bar attachment will evacuate clogged void materials from joint and void openings. Joint and void materials shall then be replaced by sweeping until the voids are full.

### *3.5* ***Cultec Recharge Chambers***

The chamber rows will be equipped with a 6" pipe to the chamber rows below. The pipe will be capped with an at grade circular cast box placed in a rectangular concrete collar. From the surface thru the access ports sediment may be measured using a stadia rod. If the depth of the sediment is greater than 3", then the row shall be cleaned with high pressure water and back-flushed out thru an upstream manhole. The sediment and water are then removed from the manhole using a vacuum truck.

*Maintenance:*

| | |
|---|---|
| Monthly in the first year: | Check inlets and outlets for clogging and remove any debris as required: |
| Spring and Fall: | Check inlets and outlets for clogging and remove any debris as required: |

**The Inspection and Cleaning of all deep sump catch basins, water quality units and recharge chambers shall be performed in April and October of each year. A report detailing the inspections and cleaning of the structures is to be submitted to the Public Works Department after each cleaning and shall be prepared by an appropriate Professional.**

## *4.0 PAVED AREA AND PARKING LOT SWEEPING*

An effective measure to the removal of total suspended solids is through frequent sweeping. Based on data collected throughout the country, effective regular sweeping can reduce the total suspended solids by 50% to 80%. Infrequent sweepings have shown that the removal efficiencies are 20% of the total suspended solids. Vacuum type sweepers have demonstrated higher efficiencies.

Maintenance

Sweeping shall occur a minimum of 4 times per year [each quarter] and additionally as necessary to control yard sediments from entering the drainage systems.

## *5.0 SEDIMENT DISPOSAL*

***All sediments, grease and hydrocarbons are considered hazardous waste and therefore should be handled properly and disposed of in accordance with applicable local, state, and federal laws and regulations.***

## *6.0 SPILL KITS*

A Spill Kit, absorbent pads and/or socks shall always be provided onsite to prevent any spills from entering the stormwater collection system.

**THE MAINTENANCE OF THE STORM DRAINAGE SYSTEMS IS THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY.**

# ***POLLUTION PREVENTION PLAN***
# *FOR*
# *35 SARATOGA BOULEVARD*
# *Devens, Massachusetts*

PROPERTY OWNER:

35 SARATOGA PROPERTY OWNER, LLC
133 PEARL STREET
BOSTON, MASSACHUSETTS 02110
617.292.0101

PREPARED BY:
EUGENE T. SULLIVAN INC.
230 Lowell Street
Wilmington, Massachusetts

DATE:
APRIL 7, 2022

# LANDSCAPE MAINTENANCE AND WATER MANAGEMENT PLAN

## ***Spring and Fall Clean-up:***

A general clean-up in the spring shall include the removal of all leaves, branches, twigs and debris from all lawn areas, tree, and shrub beds and from individual tree beds. Also included is de-thatching of all lawn areas and cutting of the grass. The work shall take place between April 15 and May 15. An annual Fall clean up should include the removal of leaves, tree branches, debris and refuse due to deciduous cycles and other conditions. The work shall take place between mid-October to mid-November after the leaves have fallen and before the first snowfall of the season. All debris shall be removed from the site and disposed of legally.

Blanket applications of pesticides are prohibited. Targeted treatment of pesticides is permitted only by a licensed applicator.

## ***Manual Weed Control:***

During establishment, weed growth shall be manually or chemically removed, including grass from tree and shrub beds and from individual tree beds. Woody growth, vines, and other undesirable plants shall be removed and legally disposed of. Weed control activities shall be performed in such a manner so as not to disturb or destroy plant material or mulched areas.
Chemical weed control of seeded areas and plant beds shall be by pre- and post-emergent herbicides in the spring and fall according to manufacturer's instructions.

## ***Watering of Plants and Seeded Areas:***

Use of manual watering should be by rain harvesting whenever possible to reduce use of potable water irrigation. Generally, plantings and seeding selections for the NE Resource Recovery are specified for low maintenance and easy establishment. It is anticipated that beyond initial establishment, watering will not need to be done on a regular basis, but only in extremely dry conditions.
All new plantings shall be watered by soaking the plants thoroughly at the time of installation and again within a twenty-four (24) hour period after the initial planting. Additional watering shall be made at least once every three weeks, unless otherwise directed, until final acceptance of the plant material.
At the time of seeding, water all areas within 72 hours of seeding operation water grass to maintain an adequate supply of moisture within the root zone. An adequate supply of moisture is the equivalent of one (1") of absorbed water per week that is delivered at weekly intervals in the form of natural rain or is augmented by periodic watering.

Irrigation system subject to approval by the Devens Enterprise Commission and shall comply with the installation requirements in 974 CMR 8.09 (11) including being equipped with soil moisture sensor devices and backflow prevention.

## ***Soil Testing:***

Soil should be tested once a year by a Mass. Soil testing agency. Soils should be tested for organic content, soil ph and nitrogen, phosphorous and potassium levels. A sieve analysis shall also be performed. Tests results shall be provided along with recommended fertilization and treatment schedule.

Blanket applications of pesticides are prohibited. Targeted treatment of pesticides is permitted only by a licensed applicator.

## ***Infiltration Basins:***

Trash and debris should be removed periodically keeping outlet structures and headwalls clear. Prune and maintain vegetation and grasses within these areas a minimum of two times between May and September. Weed growth should be monitored and removed monthly until establishment of specified plant material. The filter media soil should be replaced every 4 years or when it becomes clogged and infiltration has slowed. An indication of clogged filter media is ponded water longer than 72-hours after rainfall. Vegetated swales should be inspected for sediment build-up and erosion and should be corrected in a timely manner.

## ***Fertilization:***

The seeded areas should be inspected visually at the time of each scheduled mowing to determine if the turf has developed insect or disease problems. Over-seeding and other industry standard treatments should be done on an as-needed basis. Plantings should be inspected for healthy growth seasonally. When fertilizers are necessary, coated time-release fertilizers are the preferred method.

Blanket applications of pesticides are prohibited. Targeted treatment of pesticides is permitted only by a licensed applicator. Fertilizers, Herbicides, and pesticides are not to be stored onsite.

## ***Mulching:***

Mulching shall be performed between April 15 and May 30. All shrub and tree beds and individual trees previously mulched shall be mulched with one inch (1") of fine-shredded pine bark mulch. Immediately before the installation of mulch, all areas shall receive an application of pre-emergent herbicide applied at the manufacturer's recommended rates.

## ***Grass Mowing:***

All lawn areas shall be cut at least once every seven (7) days from May 1 thru October 31 to maintain a height of two inches (2”). The mowing frequency may be increased or decreased depending on the growth rate of the grass. The mowing operation shall result in a stand of evenly mowed grass two inches (2") tall. As a rule, the grass should be cut so that only one third (1/3) of its total length is removed during cutting operations. To maintain a height of two inches (2"), the grass shall be cut when it reaches a height of three inches (3").
Neat trimming shall be performed around all poles, curbs, posts, signs, mulched areas, and other structures falling within the lawn areas. Trimming shall be conducted simultaneously with the mowing operation. All sidewalks, mulch areas, and road surfaces shall be left free of all grass clippings. Extreme care shall be taken to prevent trimming damage of any kind to trees and shrubs.

## INVASIVE SPECIES CONTROL:

Invasive species are plants that are non-native to the surrounding ecosystem and whose introduction causes or is likely to cause harm.

**Inventory/Survey and Mapping:**

- Review the Invasive Plant Atlas of New England to become familiar with invasive and potentially invasive plants. This will assist in the early detection and rapid response to invasions.
- Assess the status of invasive plant populations [i.e. location, distribution, abundance]
- Identify areas free of invasive plants
- Detect new invasive plant species/populations

**Risk Assessment:**

- Assess the relative risk of invasive plant species/populations [i.e. prioritizing and ranking] and control methods

**Management Methods:**

- Select appropriate methods [physical, chemical, biocontrol, prescribed burning, prescribed grazing] for eradication, suppression, containment, or restoration

**Monitoring:**

- Assess trends of invasive species populations to determine the effectiveness of management methods or species invasiveness
- Detect new invasive plant species/populations

## INSECTS AND DISEASE CONTROL:

Periodic inspection of all plants by trained personnel is necessary to detect problems during early stages of insect or disease infestation. A good faith and reasonable effort shall be made in a timely manner to control any infestation or disease. Application of all chemicals including insecticides and fungicides shall be carried out in accordance with State laws and only by individuals with current State Pesticide Applicators License. All insecticides and fungicides shall be approved of by the Owner prior to application.

Refer to the Integrated Pest Management tools listed on the Landscape Nursery and Urban Forestry website http://www.umassgreenifo.org

## RODENT CONTROL:

The primary pests found in institutional sites are insects and rodents. Good sanitation and cleanliness are the keys to control and management of pests and rodents in institutional sites. Prevention is an essential management practice that includes sanitation and exclusion. Pests and rodents must have food, water, and shelter to survive. Remove these and pest problems will be significantly reduced.

**Food:**

Clean food preparation areas and other site problem areas frequently. Thorough cleaning under and behind equipment, shelving and appliances may be necessary to remove all food sources. Remove trash regularly and use trash can liners. Keep the areas around dumpsters clean. Store food in rodent proof and insect proof containers.

**Water:**

Pests find water in numerous places. Wring out and hang wet mops to dry. Clogged rain gutters and leaking faucets are also important water sources for rodents. Clean floor drains routinely as they are sources of both food and water.

**Shelter:**

Restrict rodents' access to shelter and food by sealing the entry points. Install door sweeps and window screens. Seal cracks and crevices with screens, silicone, or other sealant materials. Eliminate clutter and keep stored products on shelving off the floor.

Routine Monitoring is an important part of managing pests and rodents. Monitoring not only includes surveying for pests and rodents but also observing conditions that are favorable for them, including unsanitary conditions, entry sites, and shelter locations. When conditions favoring pests and rodents are found, they should be corrected as soon as possible. When monitoring, look for pests and evidence of pests, such as fecal material, shed skins, tracks and grease marks left by rodents. Routine monitoring will indicate if pests and rodents are present and help to evaluate whether the management strategies are successful.
Pesticides and Rodenticides may be applied as intended by certified applicators and should be used in combination with preventative measures, including exclusion and sanitation.

## MATERIALS STORAGE:

All storage of materials and waste products is to be within the building. However, if outdoor storge is required the following procedures must be followed:

- Storage of materials must be enclosed or covered to prevent exposure to precipitation
- Absorbent materials shall be stored within the building and the spill prevention procedures outlined below must be followed to prevent materials from entering the stormwater management systems.

Vehicle maintenance and washing is strictly prohibited on this property.

## SPILL PREVENTION AND CONTROL PLAN

Contractor awareness is the key to an effective spill prevention and response program. Anticipated spills for this project would be a result of oil or gas leaks. These spills should be brought to the attention of the project manager immediately. The project manager should have an adequate supply of absorbent compounds, rags etc. readily available at all time. The project manager will be trained to handle small spill events using the following procedures:

Stop the spill at the source.
Contain the spilled materials.
Collect the spilled materials as necessary using absorbent compounds, rags etc.
Dispose of the materials properly.

If the spill occurs near a storm drain structure, absorbent pads and/or socks shall be placed around the drains to prevent the spill from entering the collection system.

Spills should not be washed down with water unless the water can be contained and disposed of properly.

If a significant spill event occurs and cannot be handled by the project manager, contact the Fire Department or Local Environmental Emergency Response Team as required.

# SNOW MANAGEMENT PLAN:

## SNOW REMOVAL PROCEDURE:

Reduced salt zones have been established primarily for the purpose of reducing sodium levels. This is accomplished by substituting or reducing the amount of sodium-based deicer (i.e. granular road salt. For this property, the parking and driveway areas will be treated using “Ice B’Gone”. Ice B’Gone “IBG” is a highly effective liquid deicing agent made from a blend of magnesium chloride combined with an agricultural byproduct of the distilling process [i.e. grain and/or sugar based]. IBG allows for lower salt applications rates and has less impact on the environment [i.e. wells, plantings, vegetation etc.]
BG treated salt is a highly effective solid granular deicer. IBG treated salt starts out as ordinary rock salt which is treated with the liquid IBG transforming the rock salt into a new deicing material. This product reduces the levels of sodium and chloride ion exposure, eliminates the need for sand, provides lower working temperatures, provides better adherence to roadways resulting in a 30-40% salt reduction when compared to dry salt.

1. When Roads become icy, treatment will begin

2. When the depth of snow on the roadways is approximately two inches plowing shall begin

3. When snow in the parking lots is between two and four inches, parking lot plowing will begin. It should be noted that it is virtually impossible to clear parking spaces in the parking lots when cars are parked there. Snowstorms which happen during a workday are handled by keeping parking lot entrances and aisles open. The parking spaces areas for vehicles are cleared overnight after the cars have vacated.

4. During an especially concentrated storm, it may be necessary to continually return to plowing the roadways and aisles lanes of the parking lot. Areas on the lower end of the priority list may have to wait until the storm subsides to be cleared.

NOTE: Storage of deicing materials must be done in a contained area protected from the elements and stormwater runoff. Ensure spreading equipment is properly calibrated. No snow storage is allowed in Zone 2 areas from areas outside of Zone 2 areas.

## PRIORITIES FOR SNOWPLOWING:

1. Roadways, parking aisles and ADA spaces and access

2. Parking Lot Spaces

3. Walkways [not ADA access routes]

## SNOW STORAGE:

1. Snow is to be plowed to and stored in the locations indicated on C.2. Snow shall be stockpiled onsite until there is not enough space. As necessary, the snow will be removed and disposed of off-site. It will be the responsibility of the snow removal contractor to properly dispose of transported snow according to the Massachusetts DEP, Bureau of Resource Protection- Snow Disposal Guidelines BRP001-01. It is the responsibility of the snow removal contractor to follow these guidelines and all applicable laws and regulations.

2. Under no circumstances shall snow be placed in the Infiltration Basins.

# D-Series Size 1
## LED Area Luminaire

Buy American

Catalog Number

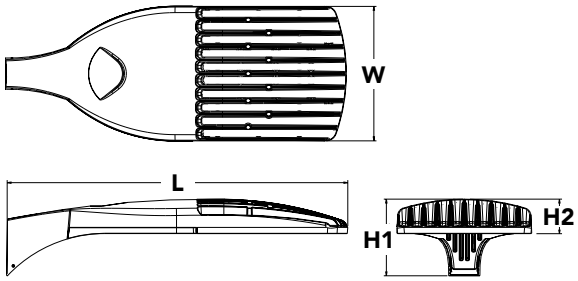
Notes

Type

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

## Specifications

| | |
|---|---|
| **EPA:** | 1.01 ft² (0.09 m²) |
| **Length:** | 33" (83.8 cm) |
| **Width:** | 13" (33.0 cm) |
| **Height H1:** | 7-1/2" (19.0 cm) |
| **Height H2:** | 3-1/2" |
| **Weight (max):** | 27 lbs (12.2 kg) |




## Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment. The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing up to 750W metal halide in pedestrian and area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

## Ordering Information

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

**DSX1 LED**

### Series

DSX1 LED

### LEDs

**Forward optics**

P1, P2, P3, P4[1], P5[1], P6[1], P7[1], P8, P9[1]

**Rotated optics**

P10[2], P11[2], P12[2], P13[1,2]

### Color temperature

| | |
|---|---|
| 30K | 3000 K |
| 40K | 4000 K |
| 50K | 5000 K |

### Distribution

| | |
|---|---|
| T1S | Type I short (Automotive) |
| T2S | Type II short |
| T2M | Type II medium |
| T3S | Type III short |
| T3M | Type III medium |
| T4M | Type IV medium |
| TFTM | Forward throw medium |
| T5VS | Type V very short[3] |
| T5S | Type V short[3] |
| T5M | Type V medium[3] |
| T5W | Type V wide[3] |
| BLC | Backlight control[4] |
| LCCO | Left corner cutoff[4] |
| RCCO | Right corner cutoff[4] |

### Voltage

MVOLT[5]
XVOLT (277V-480V)[6,7,8]
120[9]
208[9]
240[9]
277[9]
347[9]
480[9]

### Mounting

**Shipped included**

| | |
|---|---|
| SPA | Square pole mounting |
| RPA | Round pole mounting[10] |
| WBA | Wall bracket[3] |
| SPUMBA | Square pole universal mounting adaptor[11] |
| RPUMBA | Round pole universal mounting adaptor[9] |

**Shipped separately**

| | |
|---|---|
| KMA8 DDBXD U | Mast arm mounting bracket adaptor (specify finish)[12] |

### Control options

**Shipped installed**

| | |
|---|---|
| NLTAIR2 | nLight AIR generation 2 enabled[13] |
| PIRHN | Network, high/low motion/ambient sensor[14] |
| PER | NEMA twist-lock receptacle only (controls ordered separate)[15] |
| PER5 | Five-pin receptacle only (controls ordered separate)[15,16] |
| PER7 | Seven-pin receptacle only (controls ordered separate)[15,16] |
| DMG | 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately)[17] |
| DS | Dual switching[18,19,20] |
| PIR | High/low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 5fc[20,21] |
| PIRH | High/low, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 5fc[20,21] |
| PIR1FC3V | High/low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc[20,21] |
| PIRH1FC3V | Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc[20,21] |
| FAO | Field adjustable output[20,21] |

### Other options

**Shipped installed**

| | |
|---|---|
| HS | House-side shield[23] |
| SF | Single fuse (120, 277, 347V)[9] |
| DF | Double fuse (208, 240, 480V)[9] |
| L90 | Left rotated optics[2] |
| R90 | Right rotated optics[2] |
| HA | 50°C ambient operations[1] |
| BAA | Buy America(n) Act Compliant |

**Shipped separately**

| | |
|---|---|
| BS | Bird spikes[24] |
| EGS | External glare shield |

### Finish *(required)*

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



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# Ordering Information

## Accessories

*Ordered and shipped separately.*

| | |
|---|---|
| DLL127F 1.5 JU | Photocell - SSL twist-lock (120-277V) [25] |
| DLL347F 1.5 CUL JU | Photocell - SSL twist-lock (347V) [25] |
| DLL480F 1.5 CUL JU | Photocell - SSL twist-lock (480V) [25] |
| DSHORT SBK U | Shorting cap [25] |
| DSX1HS 30C U | House-side shield for P1, P2, P3, P4 and P5 [23] |
| DSX1HS 40C U | House-side shield for P6 and P7 [23] |
| DSX1HS 60C U | House-side shield for P8, P9, P10, P11 and P12 [23] |
| PUMBA DDBXD U* | Square and round pole universal mounting bracket (specify finish) [26] |
| KMA8 DDBXD U | Mast arm mounting bracket adaptor (specify finish) [12] |
| DSX1EGS (FINISH) U | External glare shield |

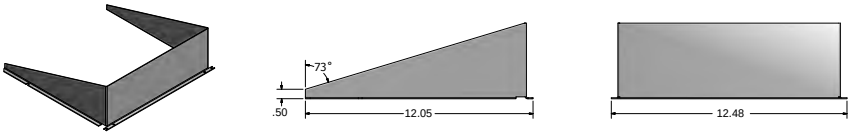
*For more control options, visit DTL and ROAM online.*

**NOTES**

1 HA not available with P4, P5, P6, P7, P9 and P13.
2 P10, P11, P12 or P13 and rotated optics (L90, R90) only available together.
3 Any Type 5 distribution with photocell, is not available with WBA.
4 Not available with HS.
5 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
6 XVOLT only suitable for use with P3, P5, P6, P7, P9 and P13.
7 XVOLT works with any voltage between 277V and 480V.
8 XVOLT not available with fusing (SF or DF) and not available with PIR, PIRH, PIR1FC3V, PIRH1FC3V.
9 Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V. XVOLT not available with fusing (SF or DF.
10 Suitable for mounting to round poles between 3.5" and 12" diameter.
11 Universal mounting brackets intended for retrofit on existing, pre-drilled poles only. 1.5 G vibration load rating per ANCI C136.31. Only usable when pole's drill pattern is NOT Lithonia template #8
12 Must order fixture with SPA option. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" diameter mast arm (not included).
13 Must be ordered with PIRHN. Sensor cover available only in dark bronze, black, white and natural aluminum colors.
14 Must be ordered with NLTAIR2. For more information on nLight Air 2 visit this link.
15 Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting cap included.
16 If ROAM® node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Node with integral dimming.
17 DMG not available with PIRHN, PER5, PER7, PIR, PIRH, PIR1FC3V or PIRH1FC3V, FAO.
18 Provides 50/50fixture operation via (2) independent drivers. Not available with PER, PER5, PER7, PIR or PIRH. Not available P1, P2, P3, P4 or P5.
19 Requires (2) separately switched circuits with isolated neutrol.
20 Reference Controls Option Default settings table on page 4.
21 Reference Motion Sensor table on page 4 to see functionality.
22 Not available with other dimming controls options.
23 Not available with BLC, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
24 Must be ordered with fixture for factory pre-drilling.
25 Requires luminaire to be specified with PER, PER5 or PER7 option. See Control Option Table on page 4.
26 For retrofit use only. Only usable when pole's drill pattern is NOT Lithonia template #8.

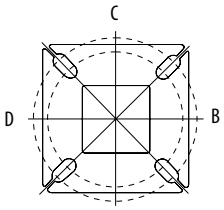
# Options

## EGS - External Glare Shield

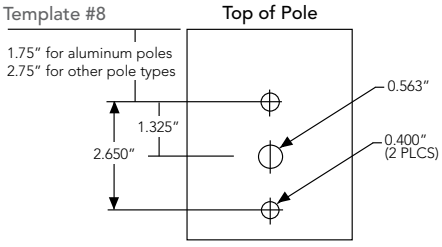



# Drilling

### HANDHOLE ORIENTATION




Template #8




## Tenon Mounting Slipfitter

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

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Mounting Option | Drilling Template | Single | 2 @ 180 | 2 @ 90 | 3 @ 90 | 3 @ 120 | 4 @ 90 |
| Head Location | | Side B | Side B & D | Side B & C | Side B, C & D | Round Pole Only | Side A, B, C & D |
| Drill Nomenclature | #8 | DM19AS | DM28AS | DM29AS | DM39AS | DM32AS | DM49AS |

## DSX1 Area Luminaire - EPA

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

| Fixture Quantity & Mounting Configuration | Single DM19 | 2 @ 180 DM28 | 2 @ 90 DM29 | 3 @ 90 DM39 | 3 @ 120 DM32 | 4 @ 90 DM49 |
|---|---|---|---|---|---|---|
| Mounting Type | | | | | | |
| DSX1 LED | 1.013 | 2.025 | 1.945 | 3.038 | 2.850 | 3.749 |

| | Drilling Template | Minimum Acceptable Outside Pole Dimension | | | | | |
|---|---|---|---|---|---|---|---|
| SPA | #8 | 2-7/8" | 2-7/8" | 3.5" | 3.5" | 3" | 3.5" |
| RPA | #8 | 2-7/8" | 2-7/8" | 3.5" | 3.5" | 3" | 3.5" |
| SPUMBA | #5 | 2-7/8" | 3" | 4" | 4" | 3.5" | 4" |
| RPUMBA | #5 | 2-7/8" | 3.5" | 5" | 5" | 3.5" | 5" |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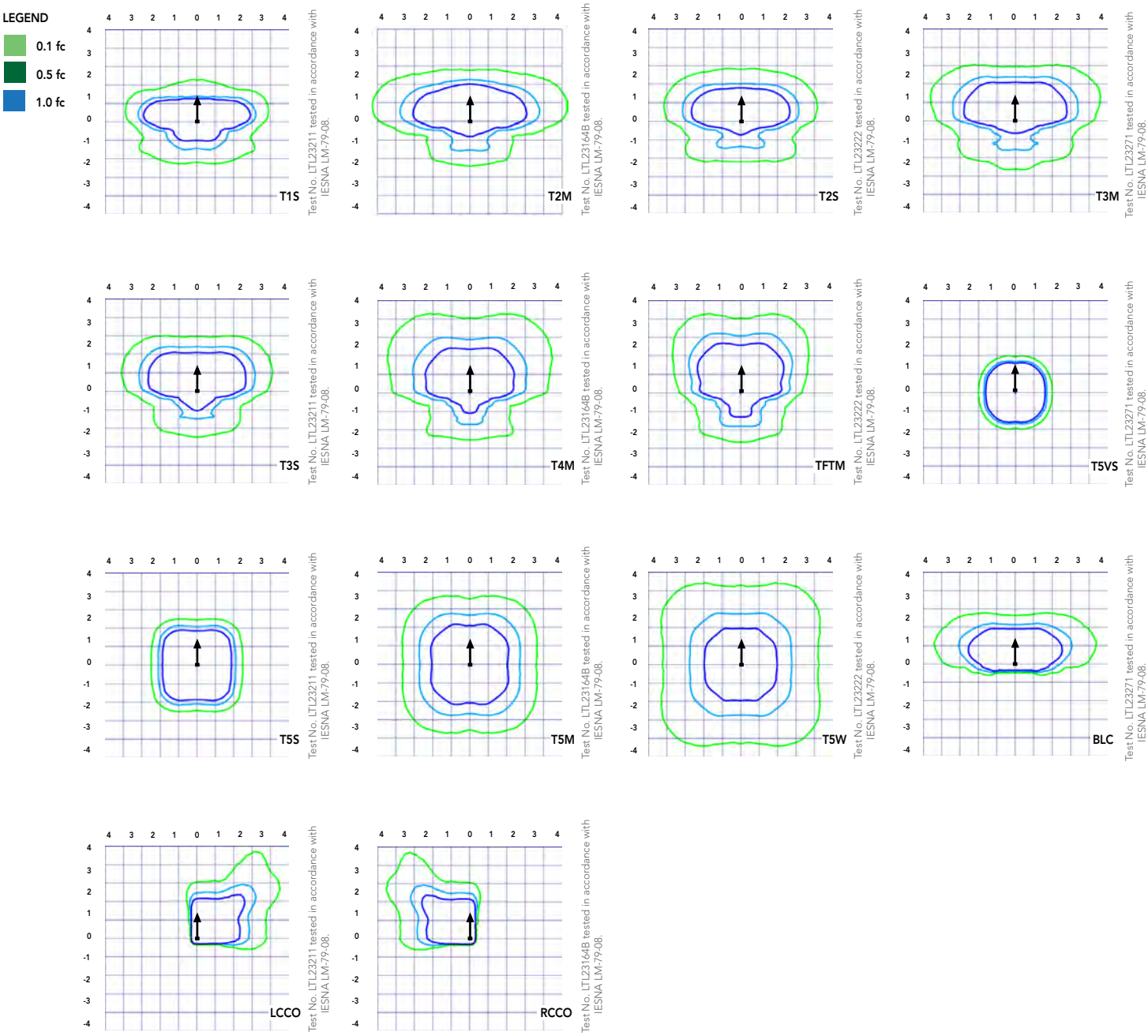
## Photometric Diagrams

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

Isofootcandle plots for the DSX1 LED 60C 1000 40K. Distances are in units of mounting height (25').



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# Performance Data

## Lumen Ambient Temperature (LAT) Multipliers

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

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

## Projected LED Lumen Maintenance

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

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

| Operating Hours | Lumen Maintenance Factor |
|---|---|
| 0 | 1.00 |
| 25,000 | 0.96 |
| 50,000 | 0.92 |
| 100,000 | 0.85 |

| Motion Sensor Default Settings | | | | | | |
|---|---|---|---|---|---|---|
| Option | Dimmed State | High Level (when triggered) | Photocell Operation | Dwell Time | Ramp-up Time | Ramp-down Time |
| PIR or PIRH | 3V (37%) Output | 10V (100%) Output | Enabled @ 5FC | 5 min | 3 sec | 5 min |
| *PIR1FC3V or PIRH1FC3V | 3V (37%) Output | 10V (100%) Output | Enabled @ 1FC | 5 min | 3 sec | 5 min |
| *for use when motion sensor is used as dusk to dawn control. | | | | | | |

## Electrical Load

| | Performance Package | LED Count | Drive Current | Wattage | Current (A) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 120 | 208 | 240 | 277 | 347 | 480 |
| Forward Optics (Non-Rotated) | P1 | 30 | 530 | 54 | 0.45 | 0.26 | 0.23 | 0.19 | 0.10 | 0.12 |
| | P2 | 30 | 700 | 70 | 0.59 | 0.34 | 0.30 | 0.25 | 0.20 | 0.16 |
| | P3 | 30 | 1050 | 102 | 0.86 | 0.50 | 0.44 | 0.38 | 0.30 | 0.22 |
| | P4 | 30 | 1250 | 125 | 1.06 | 0.60 | 0.52 | 0.46 | 0.37 | 0.27 |
| | P5 | 30 | 1400 | 138 | 1.16 | 0.67 | 0.58 | 0.51 | 0.40 | 0.29 |
| | P6 | 40 | 1250 | 163 | 1.36 | 0.78 | 0.68 | 0.59 | 0.47 | 0.34 |
| | P7 | 40 | 1400 | 183 | 1.53 | 0.88 | 0.76 | 0.66 | 0.53 | 0.38 |
| | P8 | 60 | 1050 | 207 | 1.74 | 0.98 | 0.87 | 0.76 | 0.64 | 0.49 |
| | P9 | 60 | 1250 | 241 | 2.01 | 1.16 | 1.01 | 0.89 | 0.70 | 0.51 |
| Rotated Optics (Requires L90 or R90) | P10 | 60 | 530 | 106 | 0.90 | 0.52 | 0.47 | 0.43 | 0.33 | 0.27 |
| | P11 | 60 | 700 | 137 | 1.15 | 0.67 | 0.60 | 0.53 | 0.42 | 0.32 |
| | P12 | 60 | 1050 | 207 | 1.74 | 0.99 | 0.87 | 0.76 | 0.60 | 0.46 |
| | P13 | 60 | 1250 | 231 | 1.93 | 1.12 | 0.97 | 0.86 | 0.67 | 0.49 |

| Controls Options | | | | |
|---|---|---|---|---|
| Nomenclature | Description | Functionality | Primary control device | Notes |
| FAO | Field adjustable output device installed inside the luminaire; wired to the driver dimming leads. | Allows the luminaire to be manually dimmed, effectively trimming the light output. | FAO device | Cannot be used with other controls options that need the 0-10V leads |
| DS | Drivers wired independently for 50/50 luminaire operation | The luminaire is wired to two separate circuits, allowing for 50/50 operation. | Independently wired drivers | Requires two separately switched circuits. Consider nLight AIR as a more cost effective alternative. |
| PER5 or PER7 | Twist-lock photocell recepticle | Compatible with standard twist-lock photocells for dusk to dawn operation, or advanced control nodes that provide 0-10V dimming signals. | Twist-lock photocells such as DLL Elite or advanced control nodes such as ROAM. | Pins 4 & 5 to dimming leads on driver, Pins 6 & 7 are capped inside luminaire |
| PIR or PIRH | Motion sensors with integral photocell. PIR for 8-15' mounting; PIRH for 15-30' mounting | Luminaires dim when no occupancy is detected. | Acuity Controls SBGR | Also available with PIRH1FC3V when the sensor photocell is used for dusk-to-dawn operation. |
| NLTAIR2 PIRHN | nLight AIR enabled luminaire for motion sensing, photocell and wireless communication. | Motion and ambient light sensing with group response. Scheduled dimming with motion sensor over-ride when wirelessly connected to the nLight Eclypse. | nLight Air rSDGR | nLight AIR sensors can be programmed and commissioned from the ground using the CIAIRity Pro app. |


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# Performance Data

## Lumen Output

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

### Forward Optics

| LED Count | Drive Current | Power Package | System Watts | Dist. Type | 30K (3000 K, 70 CRI) | | | | | 40K (4000 K, 70 CRI) | | | | | 50K (5000 K, 70 CRI) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW |
| 30 | 530 | **P1** | 54W | T1S | 6,457 | 2 | 0 | 2 | 120 | 6,956 | 2 | 0 | 2 | 129 | 7,044 | 2 | 0 | 2 | 130 |
| | | | | T2S | 6,450 | 2 | 0 | 2 | 119 | 6,949 | 2 | 0 | 2 | 129 | 7,037 | 2 | 0 | 2 | 130 |
| | | | | T2M | 6,483 | 1 | 0 | 1 | 120 | 6,984 | 2 | 0 | 2 | 129 | 7,073 | 2 | 0 | 2 | 131 |
| | | | | T3S | 6,279 | 2 | 0 | 2 | 116 | 6,764 | 2 | 0 | 2 | 125 | 6,850 | 2 | 0 | 2 | 127 |
| | | | | T3M | 6,468 | 1 | 0 | 2 | 120 | 6,967 | 1 | 0 | 2 | 129 | 7,056 | 1 | 0 | 2 | 131 |
| | | | | T4M | 6,327 | 1 | 0 | 2 | 117 | 6,816 | 1 | 0 | 2 | 126 | 6,902 | 1 | 0 | 2 | 128 |
| | | | | TFTM | 6,464 | 1 | 0 | 2 | 120 | 6,963 | 1 | 0 | 2 | 129 | 7,051 | 1 | 0 | 2 | 131 |
| | | | | T5VS | 6,722 | 2 | 0 | 0 | 124 | 7,242 | 3 | 0 | 0 | 134 | 7,334 | 3 | 0 | 0 | 136 |
| | | | | T5S | 6,728 | 2 | 0 | 1 | 125 | 7,248 | 2 | 0 | 1 | 134 | 7,340 | 2 | 0 | 1 | 136 |
| | | | | T5M | 6,711 | 3 | 0 | 1 | 124 | 7,229 | 3 | 0 | 1 | 134 | 7,321 | 3 | 0 | 2 | 136 |
| | | | | T5W | 6,667 | 3 | 0 | 2 | 123 | 7,182 | 3 | 0 | 2 | 133 | 7,273 | 3 | 0 | 2 | 135 |
| | | | | BLC | 5,299 | 1 | 0 | 1 | 98 | 5,709 | 1 | 0 | 2 | 106 | 5,781 | 1 | 0 | 2 | 107 |
| | | | | LCCO | 3,943 | 1 | 0 | 2 | 73 | 4,248 | 1 | 0 | 2 | 79 | 4,302 | 1 | 0 | 2 | 80 |
| | | | | RCCO | 3,943 | 1 | 0 | 2 | 73 | 4,248 | 1 | 0 | 2 | 79 | 4,302 | 1 | 0 | 2 | 80 |
| 30 | 700 | **P2** | 70W | T1S | 8,249 | 2 | 0 | 2 | 118 | 8,886 | 2 | 0 | 2 | 127 | 8,999 | 2 | 0 | 2 | 129 |
| | | | | T2S | 8,240 | 2 | 0 | 2 | 118 | 8,877 | 2 | 0 | 2 | 127 | 8,989 | 2 | 0 | 2 | 128 |
| | | | | T2M | 8,283 | 2 | 0 | 2 | 118 | 8,923 | 2 | 0 | 2 | 127 | 9,036 | 2 | 0 | 2 | 129 |
| | | | | T3S | 8,021 | 2 | 0 | 2 | 115 | 8,641 | 2 | 0 | 2 | 123 | 8,751 | 2 | 0 | 2 | 125 |
| | | | | T3M | 8,263 | 2 | 0 | 2 | 118 | 8,901 | 2 | 0 | 2 | 127 | 9,014 | 2 | 0 | 2 | 129 |
| | | | | T4M | 8,083 | 2 | 0 | 2 | 115 | 8,708 | 2 | 0 | 2 | 124 | 8,818 | 2 | 0 | 2 | 126 |
| | | | | TFTM | 8,257 | 2 | 0 | 2 | 118 | 8,896 | 2 | 0 | 2 | 127 | 9,008 | 2 | 0 | 2 | 129 |
| | | | | T5VS | 8,588 | 3 | 0 | 0 | 123 | 9,252 | 3 | 0 | 0 | 132 | 9,369 | 3 | 0 | 0 | 134 |
| | | | | T5S | 8,595 | 3 | 0 | 1 | 123 | 9,259 | 3 | 0 | 1 | 132 | 9,376 | 3 | 0 | 1 | 134 |
| | | | | T5M | 8,573 | 3 | 0 | 2 | 122 | 9,236 | 3 | 0 | 2 | 132 | 9,353 | 3 | 0 | 2 | 134 |
| | | | | T5W | 8,517 | 3 | 0 | 2 | 122 | 9,175 | 4 | 0 | 2 | 131 | 9,291 | 4 | 0 | 2 | 133 |
| | | | | BLC | 6,770 | 1 | 0 | 2 | 97 | 7,293 | 1 | 0 | 2 | 104 | 7,386 | 1 | 0 | 2 | 106 |
| | | | | LCCO | 5,038 | 1 | 0 | 2 | 72 | 5,427 | 1 | 0 | 2 | 78 | 5,496 | 1 | 0 | 2 | 79 |
| | | | | RCCO | 5,038 | 1 | 0 | 2 | 72 | 5,427 | 1 | 0 | 2 | 78 | 5,496 | 1 | 0 | 2 | 79 |
| 30 | 1050 | **P3** | 102W | T1S | 11,661 | 2 | 0 | 2 | 114 | 12,562 | 3 | 0 | 3 | 123 | 12,721 | 3 | 0 | 3 | 125 |
| | | | | T2S | 11,648 | 2 | 0 | 2 | 114 | 12,548 | 3 | 0 | 3 | 123 | 12,707 | 3 | 0 | 3 | 125 |
| | | | | T2M | 11,708 | 2 | 0 | 2 | 115 | 12,613 | 2 | 0 | 2 | 124 | 12,773 | 2 | 0 | 2 | 125 |
| | | | | T3S | 11,339 | 2 | 0 | 2 | 111 | 12,215 | 3 | 0 | 3 | 120 | 12,370 | 3 | 0 | 3 | 121 |
| | | | | T3M | 11,680 | 2 | 0 | 2 | 115 | 12,582 | 2 | 0 | 2 | 123 | 12,742 | 2 | 0 | 2 | 125 |
| | | | | T4M | 11,426 | 2 | 0 | 3 | 112 | 12,309 | 2 | 0 | 3 | 121 | 12,465 | 2 | 0 | 3 | 122 |
| | | | | TFTM | 11,673 | 2 | 0 | 2 | 114 | 12,575 | 2 | 0 | 3 | 123 | 12,734 | 2 | 0 | 3 | 125 |
| | | | | T5VS | 12,140 | 3 | 0 | 1 | 119 | 13,078 | 3 | 0 | 1 | 128 | 13,244 | 3 | 0 | 1 | 130 |
| | | | | T5S | 12,150 | 3 | 0 | 1 | 119 | 13,089 | 3 | 0 | 1 | 128 | 13,254 | 3 | 0 | 1 | 130 |
| | | | | T5M | 12,119 | 4 | 0 | 2 | 119 | 13,056 | 4 | 0 | 2 | 128 | 13,221 | 4 | 0 | 2 | 130 |
| | | | | T5W | 12,040 | 4 | 0 | 3 | 118 | 12,970 | 4 | 0 | 3 | 127 | 13,134 | 4 | 0 | 3 | 129 |
| | | | | BLC | 9,570 | 1 | 0 | 2 | 94 | 10,310 | 1 | 0 | 2 | 101 | 10,440 | 1 | 0 | 2 | 102 |
| | | | | LCCO | 7,121 | 1 | 0 | 3 | 70 | 7,671 | 1 | 0 | 3 | 75 | 7,768 | 1 | 0 | 3 | 76 |
| | | | | RCCO | 7,121 | 1 | 0 | 3 | 70 | 7,671 | 1 | 0 | 3 | 75 | 7,768 | 1 | 0 | 3 | 76 |
| 30 | 1250 | **P4** | 125W | T1S | 13,435 | 3 | 0 | 3 | 107 | 14,473 | 3 | 0 | 3 | 116 | 14,657 | 3 | 0 | 3 | 117 |
| | | | | T2S | 13,421 | 3 | 0 | 3 | 107 | 14,458 | 3 | 0 | 3 | 116 | 14,641 | 3 | 0 | 3 | 117 |
| | | | | T2M | 13,490 | 2 | 0 | 2 | 108 | 14,532 | 3 | 0 | 3 | 116 | 14,716 | 3 | 0 | 3 | 118 |
| | | | | T3S | 13,064 | 3 | 0 | 3 | 105 | 14,074 | 3 | 0 | 3 | 113 | 14,252 | 3 | 0 | 3 | 114 |
| | | | | T3M | 13,457 | 2 | 0 | 2 | 108 | 14,497 | 2 | 0 | 2 | 116 | 14,681 | 2 | 0 | 2 | 117 |
| | | | | T4M | 13,165 | 2 | 0 | 3 | 105 | 14,182 | 2 | 0 | 3 | 113 | 14,362 | 2 | 0 | 3 | 115 |
| | | | | TFTM | 13,449 | 2 | 0 | 3 | 108 | 14,488 | 2 | 0 | 3 | 116 | 14,672 | 2 | 0 | 3 | 117 |
| | | | | T5VS | 13,987 | 4 | 0 | 1 | 112 | 15,068 | 4 | 0 | 1 | 121 | 15,259 | 4 | 0 | 1 | 122 |
| | | | | T5S | 13,999 | 3 | 0 | 1 | 112 | 15,080 | 3 | 0 | 1 | 121 | 15,271 | 3 | 0 | 1 | 122 |
| | | | | T5M | 13,963 | 4 | 0 | 2 | 112 | 15,042 | 4 | 0 | 2 | 120 | 15,233 | 4 | 0 | 2 | 122 |
| | | | | T5W | 13,872 | 4 | 0 | 3 | 111 | 14,944 | 4 | 0 | 3 | 120 | 15,133 | 4 | 0 | 3 | 121 |
| | | | | BLC | 11,027 | 1 | 0 | 2 | 88 | 11,879 | 1 | 0 | 2 | 95 | 12,029 | 1 | 0 | 2 | 96 |
| | | | | LCCO | 8,205 | 1 | 0 | 3 | 66 | 8,839 | 1 | 0 | 3 | 71 | 8,951 | 1 | 0 | 3 | 72 |
| | | | | RCCO | 8,205 | 1 | 0 | 3 | 66 | 8,839 | 1 | 0 | 3 | 71 | 8,951 | 1 | 0 | 3 | 72 |
| 30 | 1400 | **P5** | 138W | T1S | 14,679 | 3 | 0 | 3 | 106 | 15,814 | 3 | 0 | 3 | 115 | 16,014 | 3 | 0 | 3 | 116 |
| | | | | T2S | 14,664 | 3 | 0 | 3 | 106 | 15,797 | 3 | 0 | 3 | 114 | 15,997 | 3 | 0 | 3 | 116 |
| | | | | T2M | 14,739 | 3 | 0 | 3 | 107 | 15,878 | 3 | 0 | 3 | 115 | 16,079 | 3 | 0 | 3 | 117 |
| | | | | T3S | 14,274 | 3 | 0 | 3 | 103 | 15,377 | 3 | 0 | 3 | 111 | 15,572 | 3 | 0 | 3 | 113 |
| | | | | T3M | 14,704 | 2 | 0 | 3 | 107 | 15,840 | 3 | 0 | 3 | 115 | 16,040 | 3 | 0 | 3 | 116 |
| | | | | T4M | 14,384 | 2 | 0 | 3 | 104 | 15,496 | 3 | 0 | 3 | 112 | 15,692 | 3 | 0 | 3 | 114 |
| | | | | TFTM | 14,695 | 2 | 0 | 3 | 106 | 15,830 | 3 | 0 | 3 | 115 | 16,030 | 3 | 0 | 3 | 116 |
| | | | | T5VS | 15,283 | 4 | 0 | 1 | 111 | 16,464 | 4 | 0 | 1 | 119 | 16,672 | 4 | 0 | 1 | 121 |
| | | | | T5S | 15,295 | 3 | 0 | 1 | 111 | 16,477 | 4 | 0 | 1 | 119 | 16,686 | 4 | 0 | 1 | 121 |
| | | | | T5M | 15,257 | 4 | 0 | 2 | 111 | 16,435 | 4 | 0 | 2 | 119 | 16,644 | 4 | 0 | 2 | 121 |
| | | | | T5W | 15,157 | 4 | 0 | 3 | 110 | 16,328 | 4 | 0 | 3 | 118 | 16,534 | 4 | 0 | 3 | 120 |
| | | | | BLC | 12,048 | 1 | 0 | 2 | 87 | 12,979 | 1 | 0 | 2 | 94 | 13,143 | 1 | 0 | 2 | 95 |
| | | | | LCCO | 8,965 | 1 | 0 | 3 | 65 | 9,657 | 1 | 0 | 3 | 70 | 9,780 | 1 | 0 | 3 | 71 |
| | | | | RCCO | 8,965 | 1 | 0 | 3 | 65 | 9,657 | 1 | 0 | 3 | 70 | 9,780 | 1 | 0 | 3 | 71 |


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# Performance Data

## Lumen Output

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

### Forward Optics

| LED Count | Drive Current | Power Package | System Watts | Dist. Type | 30K (3000 K, 70 CRI) | | | | | 40K (4000 K, 70 CRI) | | | | | 50K (5000 K, 70 CRI) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW |
| 40 | 1250 | **P6** | 163W | T1S | 17,654 | 3 | 0 | 3 | 108 | 19,018 | 3 | 0 | 3 | 117 | 19,259 | 3 | 0 | 3 | 118 |
| | | | | T2S | 17,635 | 3 | 0 | 3 | 108 | 18,998 | 3 | 0 | 3 | 117 | 19,238 | 3 | 0 | 3 | 118 |
| | | | | T2M | 17,726 | 3 | 0 | 3 | 109 | 19,096 | 3 | 0 | 3 | 117 | 19,337 | 3 | 0 | 3 | 119 |
| | | | | T3S | 17,167 | 3 | 0 | 3 | 105 | 18,493 | 3 | 0 | 3 | 113 | 18,727 | 3 | 0 | 3 | 115 |
| | | | | T3M | 17,683 | 3 | 0 | 3 | 108 | 19,049 | 3 | 0 | 3 | 117 | 19,290 | 3 | 0 | 3 | 118 |
| | | | | T4M | 17,299 | 3 | 0 | 3 | 106 | 18,635 | 3 | 0 | 4 | 114 | 18,871 | 3 | 0 | 4 | 116 |
| | | | | TFTM | 17,672 | 3 | 0 | 3 | 108 | 19,038 | 3 | 0 | 4 | 117 | 19,279 | 3 | 0 | 4 | 118 |
| | | | | T5VS | 18,379 | 4 | 0 | 1 | 113 | 19,800 | 4 | 0 | 1 | 121 | 20,050 | 4 | 0 | 1 | 123 |
| | | | | T5S | 18,394 | 4 | 0 | 2 | 113 | 19,816 | 4 | 0 | 2 | 122 | 20,066 | 4 | 0 | 2 | 123 |
| | | | | T5M | 18,348 | 4 | 0 | 2 | 113 | 19,766 | 4 | 0 | 2 | 121 | 20,016 | 4 | 0 | 2 | 123 |
| | | | | T5W | 18,228 | 5 | 0 | 3 | 112 | 19,636 | 5 | 0 | 3 | 120 | 19,885 | 5 | 0 | 3 | 122 |
| | | | | BLC | 14,489 | 2 | 0 | 2 | 89 | 15,609 | 2 | 0 | 3 | 96 | 15,806 | 2 | 0 | 3 | 97 |
| | | | | LCCO | 10,781 | 1 | 0 | 3 | 66 | 11,614 | 1 | 0 | 3 | 71 | 11,761 | 2 | 0 | 3 | 72 |
| | | | | RCCO | 10,781 | 1 | 0 | 3 | 66 | 11,614 | 1 | 0 | 3 | 71 | 11,761 | 2 | 0 | 3 | 72 |
| 40 | 1400 | **P7** | 183W | T1S | 19,227 | 3 | 0 | 3 | 105 | 20,712 | 3 | 0 | 3 | 113 | 20,975 | 3 | 0 | 3 | 115 |
| | | | | T2S | 19,206 | 3 | 0 | 3 | 105 | 20,690 | 3 | 0 | 3 | 113 | 20,952 | 3 | 0 | 3 | 114 |
| | | | | T2M | 19,305 | 3 | 0 | 3 | 105 | 20,797 | 3 | 0 | 3 | 114 | 21,060 | 3 | 0 | 3 | 115 |
| | | | | T3S | 18,696 | 3 | 0 | 3 | 102 | 20,141 | 3 | 0 | 3 | 110 | 20,396 | 3 | 0 | 4 | 111 |
| | | | | T3M | 19,258 | 3 | 0 | 3 | 105 | 20,746 | 3 | 0 | 3 | 113 | 21,009 | 3 | 0 | 3 | 115 |
| | | | | T4M | 18,840 | 3 | 0 | 4 | 103 | 20,296 | 3 | 0 | 4 | 111 | 20,553 | 3 | 0 | 4 | 112 |
| | | | | TFTM | 19,246 | 3 | 0 | 4 | 105 | 20,734 | 3 | 0 | 4 | 113 | 20,996 | 3 | 0 | 4 | 115 |
| | | | | T5VS | 20,017 | 4 | 0 | 1 | 109 | 21,564 | 4 | 0 | 1 | 118 | 21,837 | 4 | 0 | 1 | 119 |
| | | | | T5S | 20,033 | 4 | 0 | 2 | 109 | 21,581 | 4 | 0 | 2 | 118 | 21,854 | 4 | 0 | 2 | 119 |
| | | | | T5M | 19,983 | 4 | 0 | 2 | 109 | 21,527 | 5 | 0 | 3 | 118 | 21,799 | 5 | 0 | 3 | 119 |
| | | | | T5W | 19,852 | 5 | 0 | 3 | 108 | 21,386 | 5 | 0 | 3 | 117 | 21,656 | 5 | 0 | 3 | 118 |
| | | | | BLC | 15,780 | 2 | 0 | 3 | 86 | 16,999 | 2 | 0 | 3 | 93 | 17,214 | 2 | 0 | 3 | 94 |
| | | | | LCCO | 11,742 | 2 | 0 | 3 | 64 | 12,649 | 2 | 0 | 3 | 69 | 12,809 | 2 | 0 | 3 | 70 |
| | | | | RCCO | 11,742 | 2 | 0 | 3 | 64 | 12,649 | 2 | 0 | 3 | 69 | 12,809 | 2 | 0 | 3 | 70 |
| 60 | 1050 | **P8** | 207W | T1S | 22,490 | 3 | 0 | 3 | 109 | 24,228 | 3 | 0 | 3 | 117 | 24,535 | 3 | 0 | 3 | 119 |
| | | | | T2S | 22,466 | 3 | 0 | 4 | 109 | 24,202 | 3 | 0 | 4 | 117 | 24,509 | 3 | 0 | 4 | 118 |
| | | | | T2M | 22,582 | 3 | 0 | 3 | 109 | 24,327 | 3 | 0 | 3 | 118 | 24,635 | 3 | 0 | 3 | 119 |
| | | | | T3S | 21,870 | 3 | 0 | 4 | 106 | 23,560 | 3 | 0 | 4 | 114 | 23,858 | 3 | 0 | 4 | 115 |
| | | | | T3M | 22,527 | 3 | 0 | 4 | 109 | 24,268 | 3 | 0 | 4 | 117 | 24,575 | 3 | 0 | 4 | 119 |
| | | | | T4M | 22,038 | 3 | 0 | 4 | 106 | 23,741 | 3 | 0 | 4 | 115 | 24,041 | 3 | 0 | 4 | 116 |
| | | | | TFTM | 22,513 | 3 | 0 | 4 | 109 | 24,253 | 3 | 0 | 4 | 117 | 24,560 | 3 | 0 | 4 | 119 |
| | | | | T5VS | 23,415 | 5 | 0 | 1 | 113 | 25,224 | 5 | 0 | 1 | 122 | 25,543 | 5 | 0 | 1 | 123 |
| | | | | T5S | 23,434 | 4 | 0 | 2 | 113 | 25,244 | 4 | 0 | 2 | 122 | 25,564 | 4 | 0 | 2 | 123 |
| | | | | T5M | 23,374 | 5 | 0 | 3 | 113 | 25,181 | 5 | 0 | 3 | 122 | 25,499 | 5 | 0 | 3 | 123 |
| | | | | T5W | 23,221 | 5 | 0 | 4 | 112 | 25,016 | 5 | 0 | 4 | 121 | 25,332 | 5 | 0 | 4 | 122 |
| | | | | BLC | 18,458 | 2 | 0 | 3 | 89 | 19,885 | 2 | 0 | 3 | 96 | 20,136 | 2 | 0 | 3 | 97 |
| | | | | LCCO | 13,735 | 2 | 0 | 3 | 66 | 14,796 | 2 | 0 | 4 | 71 | 14,983 | 2 | 0 | 4 | 72 |
| | | | | RCCO | 13,735 | 2 | 0 | 3 | 66 | 14,796 | 2 | 0 | 4 | 71 | 14,983 | 2 | 0 | 4 | 72 |
| 60 | 1250 | **P9** | 241W | T1S | 25,575 | 3 | 0 | 3 | 106 | 27,551 | 3 | 0 | 3 | 114 | 27,900 | 3 | 0 | 3 | 116 |
| | | | | T2S | 25,548 | 3 | 0 | 4 | 106 | 27,522 | 3 | 0 | 4 | 114 | 27,871 | 3 | 0 | 4 | 116 |
| | | | | T2M | 25,680 | 3 | 0 | 3 | 107 | 27,664 | 3 | 0 | 3 | 115 | 28,014 | 3 | 0 | 3 | 116 |
| | | | | T3S | 24,870 | 3 | 0 | 4 | 103 | 26,791 | 3 | 0 | 4 | 111 | 27,130 | 3 | 0 | 4 | 113 |
| | | | | T3M | 25,617 | 3 | 0 | 4 | 106 | 27,597 | 3 | 0 | 4 | 115 | 27,946 | 3 | 0 | 4 | 116 |
| | | | | T4M | 25,061 | 3 | 0 | 4 | 104 | 26,997 | 3 | 0 | 4 | 112 | 27,339 | 3 | 0 | 4 | 113 |
| | | | | TFTM | 25,602 | 3 | 0 | 4 | 106 | 27,580 | 3 | 0 | 4 | 114 | 27,929 | 3 | 0 | 4 | 116 |
| | | | | T5VS | 26,626 | 5 | 0 | 1 | 110 | 28,684 | 5 | 0 | 1 | 119 | 29,047 | 5 | 0 | 1 | 121 |
| | | | | T5S | 26,648 | 4 | 0 | 2 | 111 | 28,707 | 5 | 0 | 2 | 119 | 29,070 | 5 | 0 | 2 | 121 |
| | | | | T5M | 26,581 | 5 | 0 | 3 | 110 | 28,635 | 5 | 0 | 3 | 119 | 28,997 | 5 | 0 | 3 | 120 |
| | | | | T5W | 26,406 | 5 | 0 | 4 | 110 | 28,447 | 5 | 0 | 4 | 118 | 28,807 | 5 | 0 | 4 | 120 |
| | | | | BLC | 20,990 | 2 | 0 | 3 | 87 | 22,612 | 2 | 0 | 3 | 94 | 22,898 | 2 | 0 | 3 | 95 |
| | | | | LCCO | 15,619 | 2 | 0 | 4 | 65 | 16,825 | 2 | 0 | 4 | 70 | 17,038 | 2 | 0 | 4 | 71 |
| | | | | RCCO | 15,619 | 2 | 0 | 4 | 65 | 16,825 | 2 | 0 | 4 | 70 | 17,038 | 2 | 0 | 4 | 71 |


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## Performance Data

### Lumen Output

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

**Rotated Optics**

| LED Count | Drive Current | Power Package | System Watts | Dist. Type | 30K (3000 K, 70 CRI) | | | | | 40K (4000 K, 70 CRI) | | | | | 50K (5000 K, 70 CRI) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW |
| 60 | 530 | **P10** | 106W | T1S | 13,042 | 3 | 0 | 3 | 123 | 14,050 | 3 | 0 | 3 | 133 | 14,228 | 3 | 0 | 3 | 134 |
| | | | | T2S | 12,967 | 4 | 0 | 4 | 122 | 13,969 | 4 | 0 | 4 | 132 | 14,146 | 4 | 0 | 4 | 133 |
| | | | | T2M | 13,201 | 3 | 0 | 3 | 125 | 14,221 | 3 | 0 | 3 | 134 | 14,401 | 3 | 0 | 3 | 136 |
| | | | | T3S | 12,766 | 4 | 0 | 4 | 120 | 13,752 | 4 | 0 | 4 | 130 | 13,926 | 4 | 0 | 4 | 131 |
| | | | | T3M | 13,193 | 4 | 0 | 4 | 124 | 14,213 | 4 | 0 | 4 | 134 | 14,393 | 4 | 0 | 4 | 136 |
| | | | | T4M | 12,944 | 4 | 0 | 4 | 122 | 13,945 | 4 | 0 | 4 | 132 | 14,121 | 4 | 0 | 4 | 133 |
| | | | | TFTM | 13,279 | 4 | 0 | 4 | 125 | 14,305 | 4 | 0 | 4 | 135 | 14,486 | 4 | 0 | 4 | 137 |
| | | | | T5VS | 13,372 | 3 | 0 | 1 | 126 | 14,405 | 4 | 0 | 1 | 136 | 14,588 | 4 | 0 | 1 | 138 |
| | | | | T5S | 13,260 | 3 | 0 | 1 | 125 | 14,284 | 3 | 0 | 1 | 135 | 14,465 | 3 | 0 | 1 | 136 |
| | | | | T5M | 13,256 | 4 | 0 | 2 | 125 | 14,281 | 4 | 0 | 2 | 135 | 14,462 | 4 | 0 | 2 | 136 |
| | | | | T5W | 13,137 | 4 | 0 | 3 | 124 | 14,153 | 4 | 0 | 3 | 134 | 14,332 | 4 | 0 | 3 | 135 |
| | | | | BLC | 10,906 | 3 | 0 | 3 | 103 | 11,749 | 3 | 0 | 3 | 111 | 11,898 | 3 | 0 | 3 | 112 |
| | | | | LCCO | 7,789 | 1 | 0 | 3 | 73 | 8,391 | 1 | 0 | 3 | 79 | 8,497 | 1 | 0 | 3 | 80 |
| | | | | RCCO | 7,779 | 4 | 0 | 4 | 73 | 8,380 | 4 | 0 | 4 | 79 | 8,486 | 4 | 0 | 4 | 80 |
| 60 | 700 | **P11** | 137W | T1S | 16,556 | 3 | 0 | 3 | 121 | 17,835 | 3 | 0 | 3 | 130 | 18,061 | 4 | 0 | 4 | 132 |
| | | | | T2S | 16,461 | 4 | 0 | 4 | 120 | 17,733 | 4 | 0 | 4 | 129 | 17,957 | 4 | 0 | 4 | 131 |
| | | | | T2M | 16,758 | 4 | 0 | 4 | 122 | 18,053 | 4 | 0 | 4 | 132 | 18,281 | 4 | 0 | 4 | 133 |
| | | | | T3S | 16,205 | 4 | 0 | 4 | 118 | 17,457 | 4 | 0 | 4 | 127 | 17,678 | 4 | 0 | 4 | 129 |
| | | | | T3M | 16,748 | 4 | 0 | 4 | 122 | 18,042 | 4 | 0 | 4 | 132 | 18,271 | 4 | 0 | 4 | 133 |
| | | | | T4M | 16,432 | 4 | 0 | 4 | 120 | 17,702 | 4 | 0 | 4 | 129 | 17,926 | 4 | 0 | 4 | 131 |
| | | | | TFTM | 16,857 | 4 | 0 | 4 | 123 | 18,159 | 4 | 0 | 4 | 133 | 18,389 | 4 | 0 | 4 | 134 |
| | | | | T5VS | 16,975 | 4 | 0 | 1 | 124 | 18,287 | 4 | 0 | 1 | 133 | 18,518 | 4 | 0 | 1 | 135 |
| | | | | T5S | 16,832 | 4 | 0 | 1 | 123 | 18,133 | 4 | 0 | 2 | 132 | 18,362 | 4 | 0 | 2 | 134 |
| | | | | T5M | 16,828 | 4 | 0 | 2 | 123 | 18,128 | 4 | 0 | 2 | 132 | 18,358 | 4 | 0 | 2 | 134 |
| | | | | T5W | 16,677 | 4 | 0 | 3 | 122 | 17,966 | 5 | 0 | 3 | 131 | 18,193 | 5 | 0 | 3 | 133 |
| | | | | BLC | 13,845 | 3 | 0 | 3 | 101 | 14,915 | 3 | 0 | 3 | 109 | 15,103 | 3 | 0 | 3 | 110 |
| | | | | LCCO | 9,888 | 1 | 0 | 3 | 72 | 10,652 | 2 | 0 | 3 | 78 | 10,787 | 2 | 0 | 3 | 79 |
| | | | | RCCO | 9,875 | 4 | 0 | 4 | 72 | 10,638 | 4 | 0 | 4 | 78 | 10,773 | 4 | 0 | 4 | 79 |
| 60 | 1050 | **P12** | 207W | T1S | 22,996 | 4 | 0 | 4 | 111 | 24,773 | 4 | 0 | 4 | 120 | 25,087 | 4 | 0 | 4 | 121 |
| | | | | T2S | 22,864 | 4 | 0 | 4 | 110 | 24,631 | 5 | 0 | 5 | 119 | 24,943 | 5 | 0 | 5 | 120 |
| | | | | T2M | 23,277 | 4 | 0 | 4 | 112 | 25,075 | 4 | 0 | 4 | 121 | 25,393 | 4 | 0 | 4 | 123 |
| | | | | T3S | 22,509 | 4 | 0 | 4 | 109 | 24,248 | 5 | 0 | 5 | 117 | 24,555 | 5 | 0 | 5 | 119 |
| | | | | T3M | 23,263 | 4 | 0 | 4 | 112 | 25,061 | 4 | 0 | 4 | 121 | 25,378 | 4 | 0 | 4 | 123 |
| | | | | T4M | 22,824 | 5 | 0 | 5 | 110 | 24,588 | 5 | 0 | 5 | 119 | 24,899 | 5 | 0 | 5 | 120 |
| | | | | TFTM | 23,414 | 5 | 0 | 5 | 113 | 25,223 | 5 | 0 | 5 | 122 | 25,543 | 5 | 0 | 5 | 123 |
| | | | | T5VS | 23,579 | 5 | 0 | 1 | 114 | 25,401 | 5 | 0 | 1 | 123 | 25,722 | 5 | 0 | 1 | 124 |
| | | | | T5S | 23,380 | 4 | 0 | 2 | 113 | 25,187 | 4 | 0 | 2 | 122 | 25,506 | 4 | 0 | 2 | 123 |
| | | | | T5M | 23,374 | 5 | 0 | 3 | 113 | 25,181 | 5 | 0 | 3 | 122 | 25,499 | 5 | 0 | 3 | 123 |
| | | | | T5W | 23,165 | 5 | 0 | 4 | 112 | 24,955 | 5 | 0 | 4 | 121 | 25,271 | 5 | 0 | 4 | 122 |
| | | | | BLC | 19,231 | 4 | 0 | 4 | 93 | 20,717 | 4 | 0 | 4 | 100 | 20,979 | 4 | 0 | 4 | 101 |
| | | | | LCCO | 13,734 | 2 | 0 | 3 | 66 | 14,796 | 2 | 0 | 4 | 71 | 14,983 | 2 | 0 | 4 | 72 |
| | | | | RCCO | 13,716 | 4 | 0 | 4 | 66 | 14,776 | 4 | 0 | 4 | 71 | 14,963 | 4 | 0 | 4 | 72 |
| 60 | 1250 | **P13** | 231W | T1S | 25,400 | 4 | 0 | 4 | 110 | 27,363 | 4 | 0 | 4 | 118 | 27,709 | 4 | 0 | 4 | 120 |
| | | | | T2S | 25,254 | 5 | 0 | 5 | 109 | 27,205 | 5 | 0 | 5 | 118 | 27,550 | 5 | 0 | 5 | 119 |
| | | | | T2M | 25,710 | 4 | 0 | 4 | 111 | 27,696 | 4 | 0 | 4 | 120 | 28,047 | 4 | 0 | 4 | 121 |
| | | | | T3S | 24,862 | 5 | 0 | 5 | 108 | 26,783 | 5 | 0 | 5 | 116 | 27,122 | 5 | 0 | 5 | 117 |
| | | | | T3M | 25,695 | 5 | 0 | 5 | 111 | 27,680 | 5 | 0 | 5 | 120 | 28,031 | 5 | 0 | 5 | 121 |
| | | | | T4M | 25,210 | 5 | 0 | 5 | 109 | 27,158 | 5 | 0 | 5 | 118 | 27,502 | 5 | 0 | 5 | 119 |
| | | | | TFTM | 25,861 | 5 | 0 | 5 | 112 | 27,860 | 5 | 0 | 5 | 121 | 28,212 | 5 | 0 | 5 | 122 |
| | | | | T5VS | 26,043 | 5 | 0 | 1 | 113 | 28,056 | 5 | 0 | 1 | 121 | 28,411 | 5 | 0 | 1 | 123 |
| | | | | T5S | 25,824 | 4 | 0 | 2 | 112 | 27,819 | 5 | 0 | 2 | 120 | 28,172 | 5 | 0 | 2 | 122 |
| | | | | T5M | 25,818 | 5 | 0 | 3 | 112 | 27,813 | 5 | 0 | 3 | 120 | 28,165 | 5 | 0 | 3 | 122 |
| | | | | T5W | 25,586 | 5 | 0 | 4 | 111 | 27,563 | 5 | 0 | 4 | 119 | 27,912 | 5 | 0 | 4 | 121 |
| | | | | BLC | 21,241 | 4 | 0 | 4 | 92 | 22,882 | 4 | 0 | 4 | 99 | 23,172 | 4 | 0 | 4 | 100 |
| | | | | LCCO | 15,170 | 2 | 0 | 4 | 66 | 16,342 | 2 | 0 | 4 | 71 | 16,549 | 2 | 0 | 4 | 72 |
| | | | | RCCO | 15,150 | 5 | 0 | 5 | 66 | 16,321 | 5 | 0 | 5 | 71 | 16,527 | 5 | 0 | 5 | 72 |


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## FEATURES & SPECIFICATIONS

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

### CONSTRUCTION
Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (1.01 $ft^2$) for optimized pole wind loading.

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

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

### ELECTRICAL
Light engine configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L85/100,000 hours at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

### STANDARD CONTROLS
The DSX1 LED area luminaire has a number of control options. DSX Size 1, comes standard with 0-10V dimming drivers. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. Integrated motion sensors with on-board photocells feature field-adjustable programing and are suitable for mounting heights up to 30 feet.

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

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

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

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

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

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

### WARRANTY
5-year limited warranty. Complete warranty terms located at:
www.acuitybrands.com/support/customer-support/terms-and-conditions

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


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# WDGE3 LED

## Architectural Wall Sconce

Buy American

Catalog Number

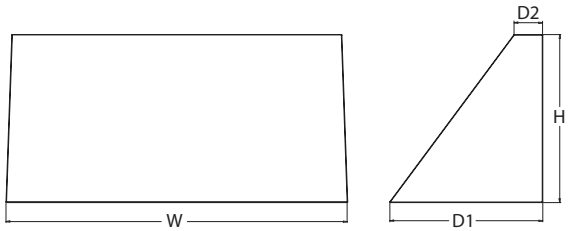
Notes

Type

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

## Specifications

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




## Introduction

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

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

## WDGE LED Family Overview

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

## Ordering Information

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

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

### Options

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

**Standalone Sensors/Controls**

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

**Networked Sensors/Controls**

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

See page 4 for out of box functionality

### Finish

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

### Accessories

*Ordered and shipped separately.*

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

**NOTES**

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

### Lumen Output

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

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

### Electrical Load

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

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

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

### Lumen Multiplier for 80CRI

| CCT | Multiplier |
|---|---|
| 30K | 0.891 |
| 40K | 0.906 |
| 50K | 0.906 |

### Lumen Ambient Temperature (LAT) Multipliers

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

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

### Projected LED Lumen Maintenance

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

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

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


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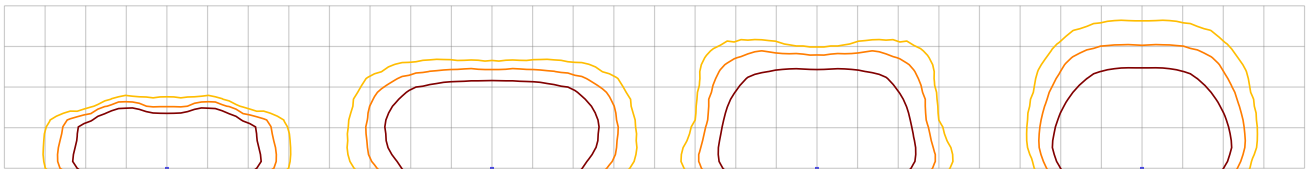
## Photometric Diagrams

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

LEGEND

- 0.25 fc
- 0.5 fc
- 1.0 fc

MH = 15ft
Grid = 15ft x 15ft



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

## Emergency Egress Options

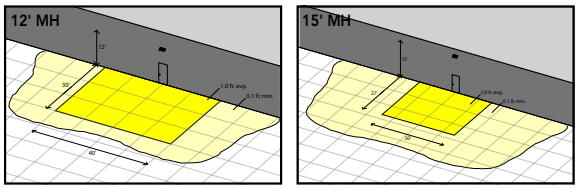
### Emergency Battery Backup

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

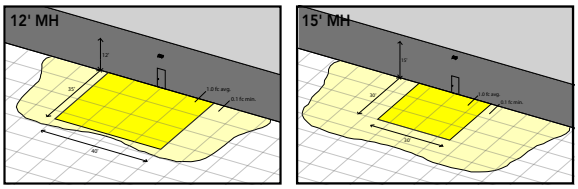
Applicable codes: NFPA 70/NEC – section 700.16, NFPA 101 Life Safety Code Section 7.9

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

Grid = 10ft x 10ft




WDGE3 LED xx 40K 70CRI R4 MVOLT E15WH




WDGE3 LED xx 40K 70CRI R4 MVOLT E20WC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## Control / Sensor Options

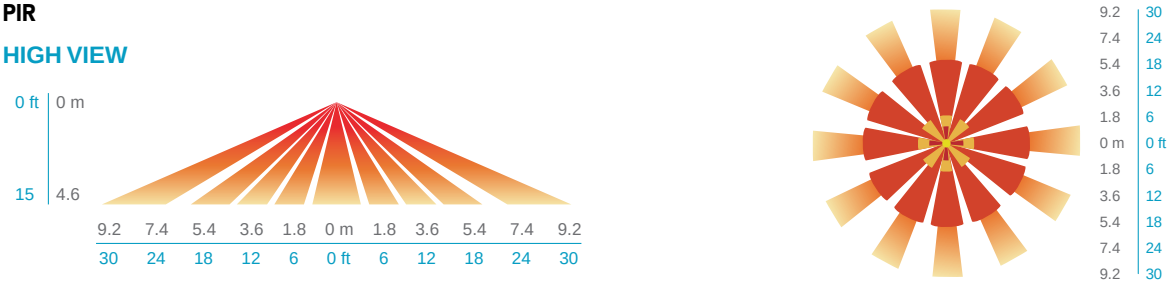
### Motion/Ambient Sensor (PIR_, PIRH_)

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

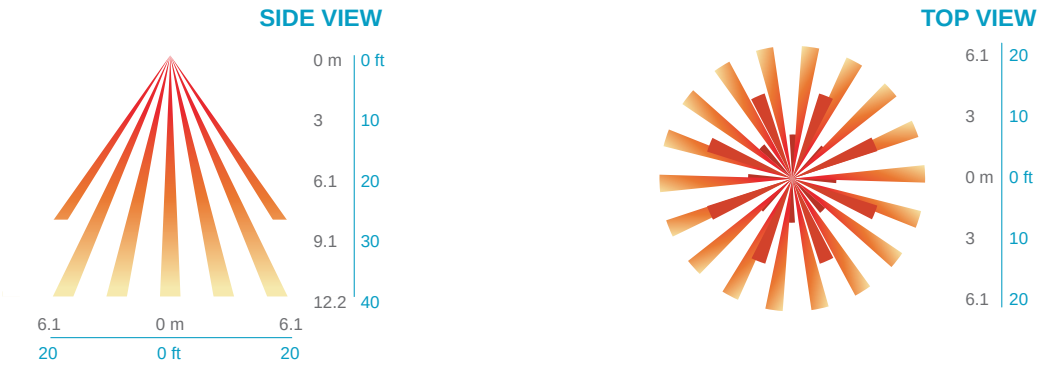
### Networked Control (NLTAIR2)

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

**PIR**




**PIRH**




### Motion/Ambient Sensor Default Settings

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

**NLTAIR2 PIR – nLight AIR Motion/Ambient Sensor**

D = 8"

H = 11"

W = 18"

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

D = 1.75"

H = 9"

W = 18"

**AWS – 3/8inch Architectural Wall Spacer**

D = 0.38"

H = 4.4"

W = 7.5"

## FEATURES & SPECIFICATIONS

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

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

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

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

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

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

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

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

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

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


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