LIGHTING FIXTURE SCHEDULE

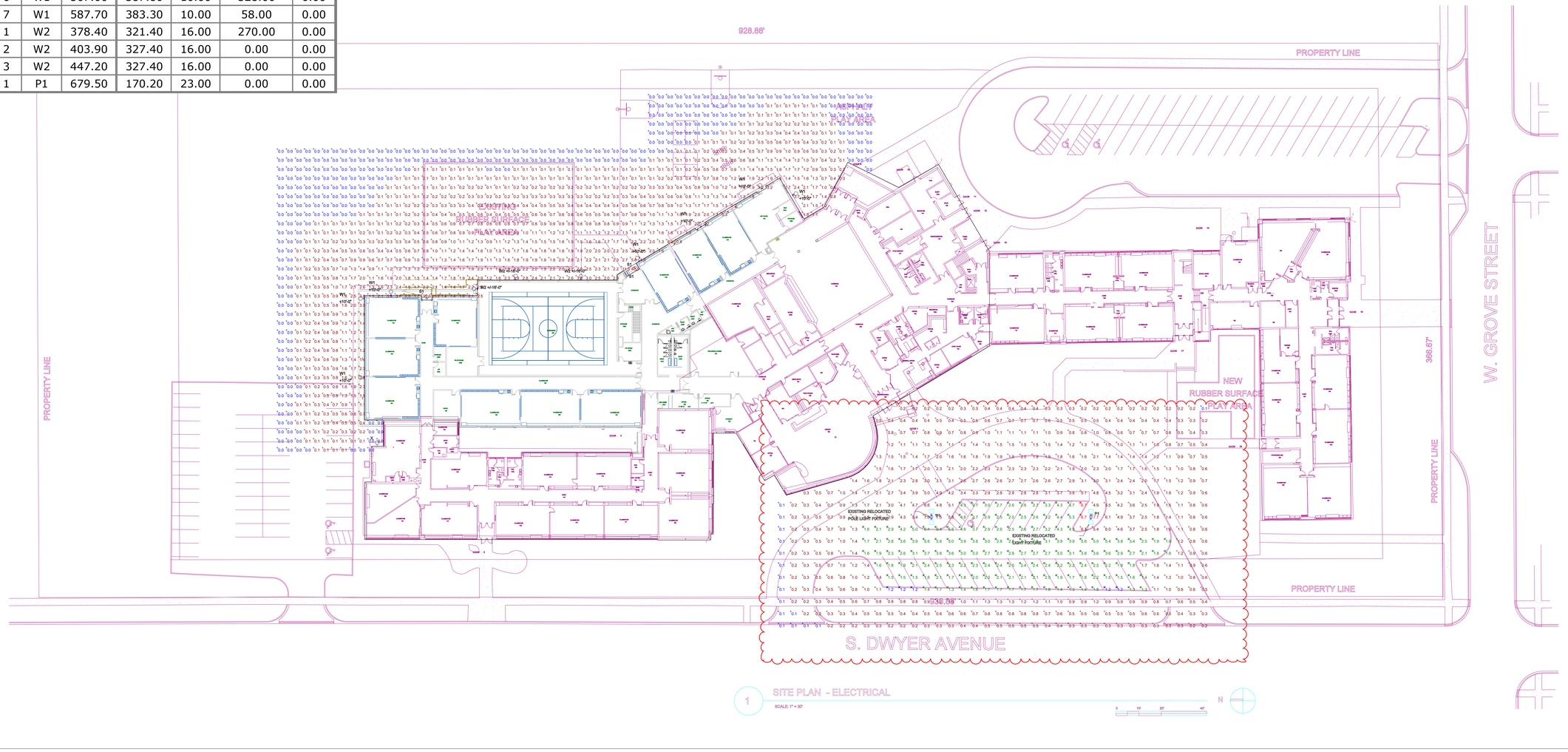
| TYPE | DESCRIPTION | MOUNTING | LAMPS | VOLTAGE | MANUFACTURER & CATALOG NUMBER | ACCEPTABLE MANUFACTURER |
|---|---|---|---|---|---|---|
| S1 | 6" DIAMETER RECESSED CANOPY LUMINAIRE WITH MEDIUM DISTRIBUTION, CLEAR LOW IRIDESCENT REFLECTOR, AND SEMI-SPECULAR FINISH. WET LOCATION RATED. | MOUNTED @10'-0" A.F.G. | L.E.D. 24.7 WATT 5000K | MVOLT | GOTHAM EVO6 40/30 AR LSS MD MVOLT EZ1 | APPROVED EQUAL |
| W1 | ARCHITECTURAL EXTERIOR WALL MOUNTED LUMINAIRE WITH TYPE 4 DISTRIBUTION, DARK BRONZE FINISH, AND INTEGRAL MOTION SENSOR CONTROLS | MOUNTED @ 10'-0" A.F.G. | L.E.D. 23 WATT 5000K | MVOLT | LITHONIA DSXW1 LED 20C 350 50K T4M MVOLT PIR DDBXD | APPROVED EQUAL |
| W2 | ARCHITECTURAL EXTERIOR WALL MOUNTED LUMINAIRE WITH TYPE 4 DISTRIBUTION, DARK BRONZE FINISH, AND INTEGRAL MOTION SENSOR CONTROLS | MOUNTED @ 16'-0" A.F.G. | L.E.D. 46 WATT 5000K | MVOLT | LITHONIA DSXW1 LED 20C 700 50K T4M MVOLT PIRH DDBXD | APPROVED EQUAL |
| P1 | TWO WAY POLE LIGHT WITH INTEGRAL MOTION SENSOR. SQUARE, STRAIGHT STEEL POLE. | MOUNTED @ 23'-0" A.F.G. | L.E.D. 2@ 209 WATT 5000K | MVOLT | LITHONIA DSX1 LED 60C 1000 50K TFTM 120V PIRH DMDMAS SSS20 | – |

## Statistics

| Description | Symbol | Avg | Max | Min | Max/Min | Avg/Min |
|---|---|---|---|---|---|---|
| Calc Zone Parking Area | + | 1.7 fc | 7.7 fc | 0.1 fc | 77.0:1 | 17.0:1 |
| Calc Zone Parking Area | X | 2.8 fc | 6.7 fc | 1.2 fc | 5.6:1 | 2.3:1 |
| Calc Zone Building Area | + | 0.7 fc | 47.1 fc | 0.0 fc | N/A | N/A |

## Luminaire Locations

| | | Location | | | | |
|---|---|---|---|---|---|---|
| No. | Label | X | Y | MH | Orientation | Tilt |
| 3 | P1 | 785.20 | 170.20 | 23.00 | 0.00 | 0.00 |
| 1 | S1 | 345.00 | 315.60 | 10.00 | 0.00 | 0.00 |
| 2 | S1 | 478.00 | 331.80 | 10.00 | 0.00 | 0.00 |
| 3 | S1 | 483.20 | 334.80 | 10.00 | 0.00 | 0.00 |
| 1 | W1 | 303.40 | 262.60 | 10.00 | 270.00 | 0.00 |
| 2 | W1 | 303.40 | 314.90 | 10.00 | 270.00 | 0.00 |
| 3 | W1 | 321.20 | 317.10 | 10.00 | 0.00 | 0.00 |
| 4 | W1 | 485.80 | 339.70 | 10.00 | 328.00 | 0.00 |
| 5 | W1 | 526.70 | 362.50 | 10.00 | 328.00 | 0.00 |
| 6 | W1 | 567.00 | 387.80 | 10.00 | 328.00 | 0.00 |
| 7 | W1 | 587.70 | 383.30 | 10.00 | 58.00 | 0.00 |
| 1 | W2 | 378.40 | 321.40 | 16.00 | 270.00 | 0.00 |
| 2 | W2 | 403.90 | 327.40 | 16.00 | 0.00 | 0.00 |
| 3 | W2 | 447.20 | 327.40 | 16.00 | 0.00 | 0.00 |
| 1 | P1 | 679.50 | 170.20 | 23.00 | 0.00 | 0.00 |




1 SITE PLAN - ELECTRICAL
SCALE: 1" = 30'


STR

**ARCHITECTS:**

**STR Partners, LLC**
350 West Ontario Street | Suite 200
Chicago, IL 60654

T: 312.464.1444
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- CIVIL ENGINEERING:
  **ERIKSSON ENGINEERING ASSOCIATES, LTD.**
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- LANDSCAPE ARCHITECTURE:
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  Deerfield, IL 60015
  (847) 562-1977
- MEP/FP ENGINEERING:
  **CS2 DESIGN GROUP LLC**
  837 Oakton Street
  Elk Grove Village, IL 60007
  (847) 981-1880
- CONSTRUCTION MANAGER:
  **NICHOLAS & ASSOCIATES**
  1001 Feehanville Drive
  Mount Prospect, IL 60056
  (847) 394-6200




PROJECT

**WESTGATE ELEMENTARY SCHOOL ADDITION AND RENOVATIONS**
500 South Dwyer Avenue
Arlington Heights, IL 60005

**ARLINGTON HEIGHTS SCHOOL DISTRICT 25**
1200 S. Dunton Avenue
Arlington Heights, IL 60005

CLIENT PROJECT NUMBER
**709-PP-1**
STR PROJECT NUMBER
**22052**

DRAWING DATES

| NUMBER | DATE | COMMENTS |
|---|---|---|
| | | |

IN-PROGRESS
NOT FOR CONSTRUCTION
1/19/23

| | | |
|---|---|---|
| 2 | JAN. 19, 2023 | REVISION FOR VILLAGE |
| 1 | JAN. 6, 2023 | REVISION FOR VILLAGE |

DRAWING TITLE

**SITE PLAN - PHOTOMETRIC CALCULATION**

SHEET NUMBER

**PH0.0**

# D-Series Size 1
## LED Area Luminaire

Catalog Number

Notes

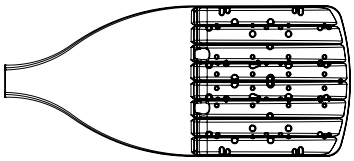
Type

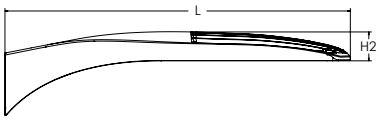
Hit the Tab key or mouse over the page to see all interactive elements.

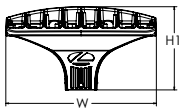
d-series

## Specifications

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






## Introduction

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

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

## Ordering Information

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

**DSX1 LED**

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

### Control options

**Shipped installed**

| | |
|---|---|
| NLTAIR2 PIRHN | nLight AIR gen 2 enabled with bi-level motion / ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc. [11,12,20,21] |
| PIR | High/low, motion/ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc [13,20,21] |
| PER | NEMA twist-lock receptacle only (controls ordered separate) [14] |
| PER5 | Five-pin receptacle only (controls ordered separate) [14,21] |
| PER7 | Seven-pin receptacle only (controls ordered separate) [14,21] |
| FAO | Field adjustable output [15,21] |
| BL30 | Bi-level switched dimming, 30% [16,21] |
| BL50 | Bi-level switched dimming, 50% [16,21] |
| DMG | 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) [17] |
| DS | Dual switching [18,19,21] |

### Other options

**Shipped installed**

| | |
|---|---|
| SPD20KV | 20KV surge protection |
| HS | Houseside shield (black finish standard) [22] |
| L90 | Left rotated optics [1] |
| R90 | Right rotated optics [1] |
| CCE | Coastal Construction [23] |

**Shipped separately**

| | |
|---|---|
| EGS | External Glare Shield (reversible, field install required, matches housing finish) |
| BS | Bird Spikes (field install required) |

### Finish *(required)*

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

## Ordering Information

### Accessories

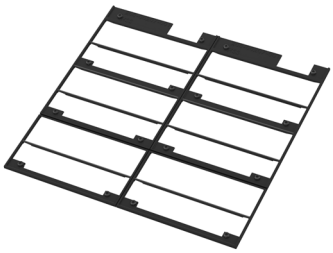
*Ordered and shipped separately.*

| | |
|---|---|
| DLL127F 1.5 JU | Photocell - SSL twist-lock (120-277V) [24] |
| DLL347F 1.5 CUL JU | Photocell - SSL twist-lock (347V) [24] |
| DLL480F 1.5 CUL JU | Photocell - SSL twist-lock (480V) [24] |
| DSHORT SBK | Shorting cap [24] |
| DSX1HS 30C | House-side shield for P1, P2, P3, P4 and P5 [22] |
| DSX1HS 40C | House-side shield for P6 and P7 [22] |
| DSX1HS 60C | House-side shield for P8, P9, P10, P11 and P12 [22] |
| DSXRPA (FINISH) | Round pole adapter (#8 drilling, specify finish) |
| DSXSPA5 (FINISH) | Square pole adapter #5 drilling (specify finish) |
| DSXRPA5 (FINISH) | Round pole adapter #5 drilling (specify finish) |
| DSX1EGS (FINISH) | External glare shield |

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

## Shield Accessories

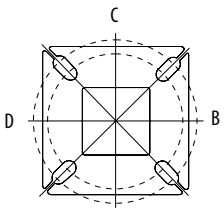
External Glare Shield (EGS)

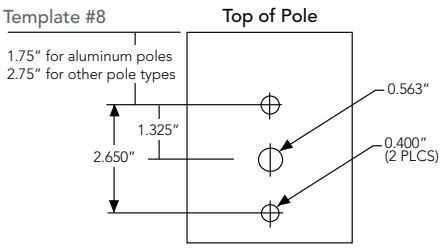


House Side Shield (HS)

## Drilling

### HANDHOLE ORIENTATION




### Tenon Mounting Slipfitter

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

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

### DSX1 Area Luminaire - EPA

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

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

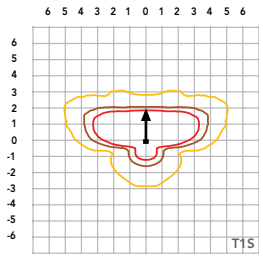
## Photometric Diagrams

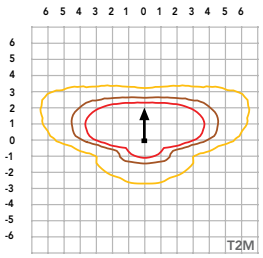
To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's homepage.

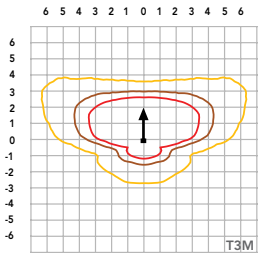
Isofootcandle plots for the DSX1 LED P9 40K 70CRI. Distances are in units of mounting height (25').

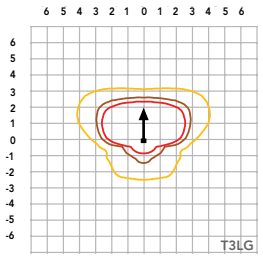
LEGEND

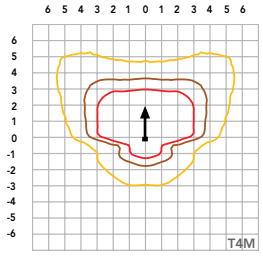
- 0.1 fc
- 0.5 fc
- 1.0 fc

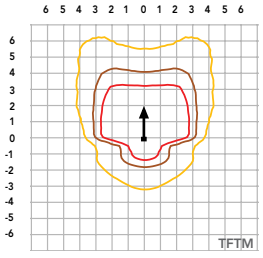


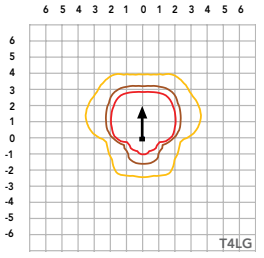



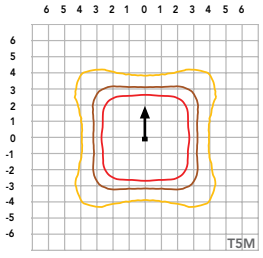



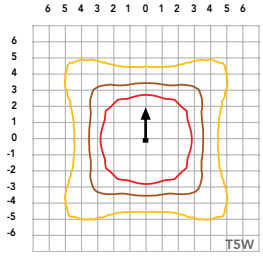



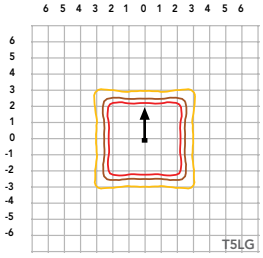



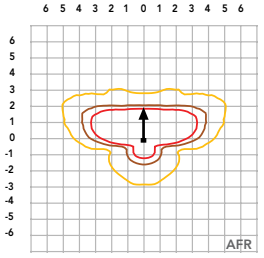



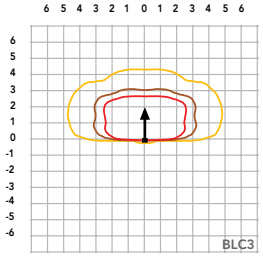



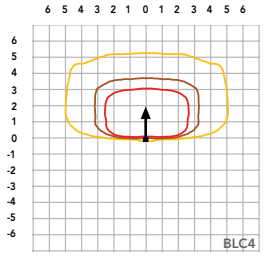



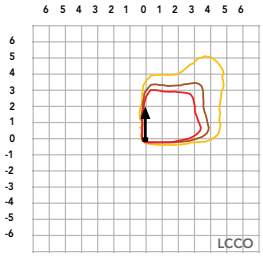



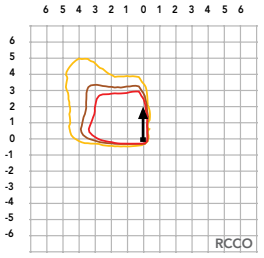






One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.lithonia.com

# Performance Data

## Lumen Ambient Temperature (LAT) Multipliers

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

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

## Projected LED Lumen Maintenance

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

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

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

## FAO Dimming Settings

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

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

## Electrical Load

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

## LED Color Temperature / Color Rendering Multipliers

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

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

## Motion Sensor Default Settings

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

## Controls Options

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

# Performance Data

## Lumen Output

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

### Forward Optics

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

# Performance Data

## Lumen Output

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

### Forward Optics

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

# Performance Data

## Lumen Output

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

### Forward Optics

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

# Performance Data

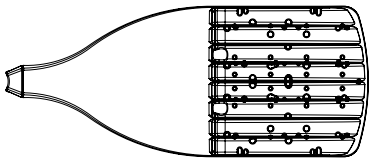
## Lumen Output

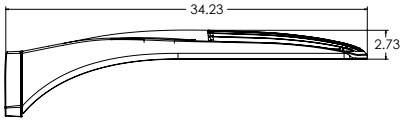
Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of configurations shown within the tolerances described within LM-79.
Contact factory for performance data on any configurations not shown here.

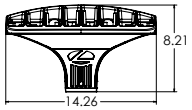
### Rotated Optics

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

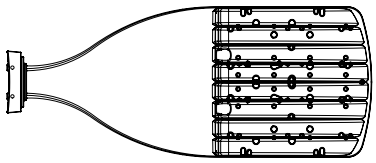
## Dimensions

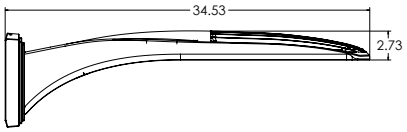


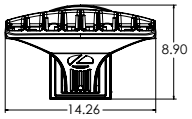



**DSX1 with RPA, RPA5, SPA5, SPA8N**

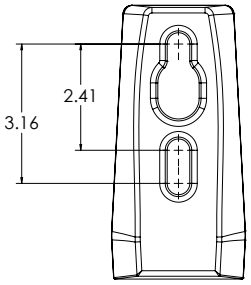




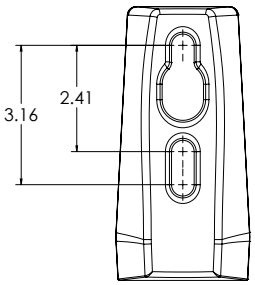




**DSX1 with WBA**

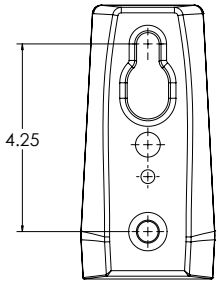
**SPA8N**



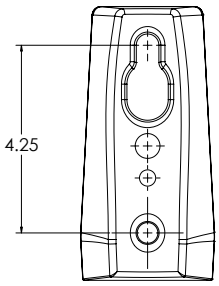

**RPA**



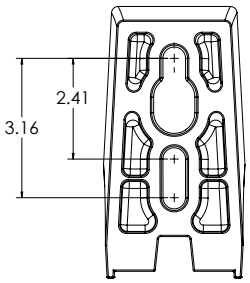

**SPA5**




**RPA5**



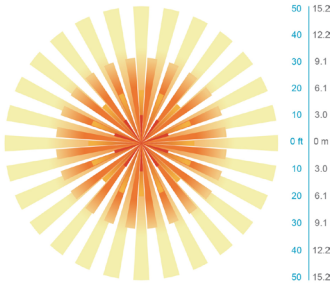

**BASE FIXURE**



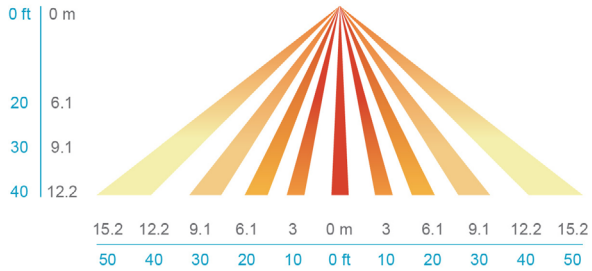
## nLight Control - Sensor Coverage and Settings

### nLight Sensor Coverage Pattern

NLTAIR2 PIRHN




Top




Side

## FEATURES & SPECIFICATIONS

### INTENDED USE

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

### CONSTRUCTION

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

### FINISH

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

### Coastal Construction (CCE)

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

### OPTICS

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

### ELECTRICAL

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

### STANDARD CONTROLS

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

### nLIGHT AIR CONTROLS

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

### INSTALLATION

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

### LISTINGS

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

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

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

### WARRANTY

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

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

gotham® | EVO®

Multiple Layers of Light

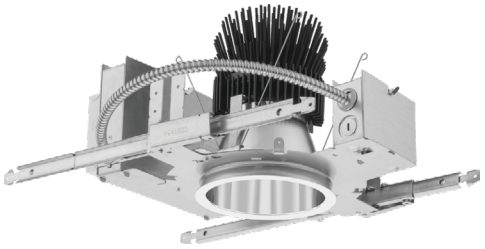
Luminaire Type:

Catalog Number:

# General Illumination Round Downlight

# 6"

250 - 8,000 lumens



10,000 - 17,500 lumens

## Feature Set

- Bounding Ray™ optical design
- Unitized optics mechanically attach the light engine to the lower reflector for complete optical alignment.
- 45° cutoff to source and source image
- Fully serviceable and upgradeable lensed LED light engine
- 70% lumen maintenance at 60,000 hours
- 2.5 MacAdam Ellipse; 85 CRI typical, 90+ CRI optional
- Fixtures are wet location, covered ceiling
- Available with 10% dimming, 1% dimming, or dim to dark
- Batwing distribution with feathered edges provides even illumination on horizontal and vertical surfaces
- ENERGY STAR® certified product
- UGR of zero for fixtures aimed at nadir with a cut-off equal to or less than 60deg per CIE 117-1995 Discomfort Glare in Interior Lighting. UGR FAQ

## Distribution

Very Narrow (VND) 0.5 S:MH | Narrow (ND) 0.7 S:MH | Medium (MD) 0.8 S:MH | Medium Wide (MWD) 1.0 S:MH | Wide (WD) 1.2 S:MH

## Superior Performance

| Nominal Lumens | 250 | 500 | 750 | 1000 | 1500 | 2000 | 2500 | 3000 | 3500 | 4000 | 4500 | 5000 | 6000 | 8000 | 10,000 | 12,000 | 15,000 | 17,500 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Delivered Lumens | 297 | 519 | 776 | 994 | 1471 | 2006 | 2537 | 3077 | 3542 | 4027 | 4533 | 5256 | 6371 | 8247 | 10637 | 12332 | 15776 | 17801 |
| Wattage | 3.4 | 6.2 | 8.2 | 9.6 | 14.7 | 19.7 | 24.7 | 29.5 | 33.8 | 39.0 | 47.3 | 48.7 | 57.6 | 74.9 | 97.1 | 115.0 | 150.9 | 175.3 |
| Lumens per Watt | 87.4 | 83.7 | 94.6 | 103.5 | 100.1 | 101.8 | 102.7 | 104.3 | 104.8 | 103.3 | 95.8 | 107.9 | 110.6 | 110.1 | 109.5 | 107.2 | 104.5 | 101.5 |

*Based on 3500K AR LSS MWD 80CRI

## Coordinated Apertures | Multiple Layers of Light

General Illumination Layer | EVO

High Center Beam Layer | Incito

EVO + Incito — Multiple Layers of Light

## Core

Downlight | Adjustable | Open Wallwash | Lensed Wallwash | Cylinder | Pinhole | Bevel | Hyperbolic

## Healthcare

MRI | Surgical Suite | Patient Room

## Special Applications

Dynamic | Food Service | Vandal/Tamper | Clean Room | Shower | Steam Room

OVERVIEW

COMPLIMENTARY PRODUCTS



GOTHAM ARCHITECTURAL DOWNLIGHTING | 1400 Lester Road Conyers, GA 30012 | P 800-705-SERV (7378) | gothamlighting.com

ORDERING INFORMATION

A+ Capable options indicated by this color background.

Luminaire Type:

Catalog Number:

**EXAMPLE: EV06 35/150 AR MWD LSS MVOLT EZ1**

| Series | Color Temperature | Nominal Lumen Values | Reflector & Flange Color | Trim Style | Finish |
|---|---|---|---|---|---|
| EV06 | 27/ 2700 K<br>30/ 3000 K<br>35/ 3500 K<br>40/ 4000 K<br>50/ 5000 K | 02 250 lumens<br>05 500 lumens<br>07 750 lumens<br>10 1000 lumens<br>15 1500 lumens<br>20 2000 lumens<br>25 2500 lumens<br>30 3000 lumens<br>35 3500 lumens<br>40 4000 lumens<br>45 4500 lumens<br>50 5000 lumens<br>60 6000 lumens<br>80 8000 lumens<br>100 10000 lumens<br>120 12000 lumens<br>150 15000 lumens<br>175 17500 lumens | AR Clear<br>PR Pewter<br>WTR Wheat<br>GR Gold<br>WR[1] White<br>BR[1] Black<br>WRAMF[1] White Anti-microbial<br>TRALTBD[1,2] RAL paint for pricing only<br>TCPC[1] Custom paint color | (blank) Self-flanged<br>FL Flangeless | LSS Semi-specular<br>LD Matte-diffuse<br>LS Specular |

| Distribution | Voltage | Driver[4] | |
|---|---|---|---|
| VND Very Narrow (0.5 s/mh)<br>ND Narrow (0.7 s/mh)<br>MD Medium (0.9 s/mh)<br>MWD Medium Wide (1.0 s/mh)<br>WD Wide (1.2 s/mh) | MVOLT<br>120<br>277<br>347[2,3] | GZ10 0-10V driver dims to 10%<br>GZ1 0-10V driver dims to 1%<br>EZ1 eldoLED 0-10V ECOdrive. Linear dimming to 1% min.<br>EZB eldoLED 0-10V SOLOdrive. Logarithmic dimming to <1%.<br>EDAB[5] eldoLED SOLOdrive DALI. Logarithmic dimming to <1%.<br>EDXB[5] eldoLED POWERdrive DMX with RDM (remote device management). Square Law dimming to <1%. Includes termination resistor. Refer to DMXR Manual. Minimum 1000 lumens/Maximum 15000 lumens. | ECOD[5] Lutron Ecosystem digital Hi-Lume 1% soft-on, fade to black. Max: 4000LM. |

| Control Interface | Emergency Options | Options |
|---|---|---|
| NLT[6] nLight® dimming pack controls<br>NLTER[2,6,9] nLight® dimming pack controls emergency circuit<br>NLTAIR2[13,14] nLight® AIR enabled<br>NLTAIRER2[2,9,13] nLight® AIR enabled emergency<br>NLTAIREM2[2,13] nLight® AIR Dimming Pack Wireless Controls. Controls fixtures on emergency circuit with battery pack options. | EL[9] Emergency battery pack, 10W, with integral test switch<br>ELR[9] Emergency battery pack, 10W, with remote test switch<br>ELSD[9] Emergency battery pack, 10W, with self-diagnostics, integral test switch<br>ELRSD[9] Emergency battery pack, 10W, with self-diagnostics, remote test switch<br>E10WCP[9] Emergency battery pack, 10W Constant Power, CA Title 20 compliant with integral test switch<br>E10WCPR[9] Emergency battery pack, 10W Constant Power, CA Title 20 compliant with remote test switch<br>BGTD Bodine generator transfer device. Specify 120V or 277V. | SF Single fuse. Specify 120V or 277V.<br>TRW[7] White painted flange<br>TRBL[8] Black painted flange<br>FRALTBD[2] Flange ring only RAL color for pricing only<br>FCPC Flange custom paint color<br>N80[10] nLight® Lumen Compensation<br>GTD generator transfer device. Specify 120V or 277V<br>90CRI High CRI (90+)<br>CP[11] Chicago Plenum. Specify 120V or 277V for 5000lm and above.<br>HAO[12] HAO High Ambient Option (40°C)<br>RRL_ RELOC®-ready luminaire connectors enable a simple and consistent factory installed option across all ABL luminaire brands. Available only with RRLA, RRLB, RRLAE, and RRLC12S. Refer to RRL spec sheet on www.acuitybrands.com for RELOC® product specifications. Above ceiling access required. |

## ACCESSORIES – order as separate catalog numbers (shipped separately)

| | |
|---|---|
| SCA6 | Sloped ceiling adapter. Degree of slope must be specified (5D, 10D, 15D, 20D, 25D, 30D). Ex: SCA6 10D. Refer to TECH-190. |
| CTA EV06 | 6" Aperture ceiling thickness adapter, for up to 8,000LM (extends mounting frame to accommodate ceiling thickness up to 5"). |
| CTA4-8 YK | 4"-8" Aperture ceiling thickness adapter for use with EDXB or CP up to 8,000LM, or nTune options (extends mounting frame to accommodate ceiling thickness up to 5"). |
| CTA4-8 YKHL | 6" Aperture ceiling thickness adapter, for 10,000LM and up (extends mounting frame to accommodate ceiling thickness up to 5"). For use with CWW/DWW trims, EDXB, CP or nTune options. |
| ISD BC | 0-10V wallbox dimmer. Refer to ISD-BC. |

## ORDERING NOTES

1. Not available with finishes.
2. Replace with applicable RAL number and finish when ready to order. See RAL BROCHURE for available color options. Not available with emergency battery pack options.
3. Not available with emergency battery pack options.
4. Supplied with factory installed step down transformer.
5. Refer to TECH-240 for compatible dimmers.
6. Not available with nLight®.
7. Specify voltage.
8. For use with different reflector finish only (i.e. AR, PR, WTR, GR options). Not applicable with WR (white reflector) or FL (flangeless) option.
9. For use with different reflector finish only (i.e. AR, PR, WTR, GR options). Not applicable with BR (black reflector) or FL (flangeless) option.
10. ER for use with generator supply power. Will require an emergency hot feed and normal hot feed.
11. Fixture begins at 80% light level. Must be specified with NLT or NLTER. Only available with EZ10 and EZ1 drivers.
12. 12,000LM max with EL or nLight® options. 5,000LM max with Lutron drivers combined with EL. Not available with ELR, HAO, or EXAB, or any nLight® AIR dimming options.
13. Only available 5000LM - 15,000LM with eldoLED drivers.
14. Not available DALI or DMX drivers. Not available with CP or N80 options. Not recommended for metal ceiling installations.
15. When combined with the EZ1, EZ10, or EZB option, normal luminaires (non-emergency) can be used as a normal power sensing device for nearby nLight AIR devices and luminaires with EM emergency options.



GOTHAM ARCHITECTURAL DOWNLIGHTING | 1400 Lester Road Conyers, GA 30012 | P 800-705-SERV (7378) | gothamlighting.com

SPECIFICATIONS

### Optical Assembly
Optical design is a Bounding Ray™ design with 45° cutoff to source and source image. Top-down flash characteristic for superior glare control.
Unitized optics shall have mechanical attachment of the light engine to the lower reflector for complete optical alignment.

### Electrical
The luminaire shall operate from a 50 or 60 Hz ±3 Hz AC line over a voltage ranging from 120 VAC to 277 VAC. The fluctuations of line voltage shall have no visible effect on the luminous output.
The luminaire shall have a power factor of 90% or greater at all standard operating voltages and full luminaire output.
Sound Rated A+. Driver shall be >80% efficient at full load across all input voltages.
Input wires shall be 18AWG, 300V minimum, solid copper.

### Controls
Luminaire shall be equipped with interface for nLight wired or wireless network with integral power supply as per specification.

### Dimming
The luminaire shall be capable of continuous dimming without perceivable stroboscopic flicker as measured by flicker index (ANSI/IES RP-16-10) over a range of 100 – 10%, 100 – 1.0% or 100 – 0.1% of rated lumen output with a smooth shut off function to step to 0%.
eldoLED LED drivers shall conform to IEEE P1789 standards. Alternatively, manufacturers must demonstrate conformance with product literature and testing which demonstrates this performance. Systems that do not meet IEEE P1789 will not be considered.
Driver is inaudible in 24dB environment, and stable when input voltage conditions fluctuate over what is typically experienced in a commercial environment.

### Construction
Fully serviceable and upgradeable lensed LED light engine, both the driver and light engine are suitable for field maintenance and are serviceable from above or below the ceiling.
Luminaire housing shall be constructed of 16-gauge galvanized steel and have preinstalled telescopic mounting bars with maximum 32" and minimum 15" extension and 4" vertical adjustment.
Luminaires shall be suitable for installation in ceilings up to 1½" thick. (specify ceiling thickness adapter to extend frame to accommodate ceiling thickness up to 5").
Tool-less adjustments shall be possible after installation.
The assembly and manufacturing process for the luminaire shall be designed to assure all internal components are adequately supported to withstand mechanical shock and vibration.
25°C ambient temperature standard (1/2" clearance on all sides from non-combustible materials in non-IC applications, unless marked spacing noted otherwise). For use in insulated ceilings, a 3" clearance on all sides from insulation is required (unless marked spacing noted otherwise). 40°C high ambient optional.

### Listings
Fixtures are CSA certified to meet US and Canadian Standards: All fixtures manufactured in strict accordance with the appropriate and current requirements of the "Standards for Safety" to UL, wet location covered ceiling. Luminaire configurations are Energy Star certified through testing in EPA–recognized laboratories, with the results reviewed by an independent, accredited certification organization. Visit www.energystar.gov for specific configurations listed.

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

### Photometrics
LEDs tested to LM-80 standards. Measured by IESNA Standard LM-79-08 in an accredited lab. Lumen output shall not decrease by more than 30% over the minimum operational life of 60,000 hours.
Color appearance from luminaire to luminaire of the same type and in all configurations, shall be consistent both initially and at 60,000 hours and operate within a tolerance of <2.5 MacAdam ellipse as defined by a point at the intersection of the CCT line and the black body locus line in CIE chromaticity space.

### 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

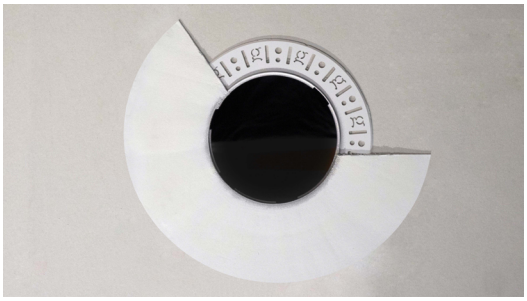
### Note:
Actual performance may differ as a result of end user environment and application.
All values are design or typical values, measured under laboratory conditions at 25 °C.

### A+ Capable Luminaire
This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.
- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a shaded background*
- This luminaire is part of an A+ Certified solution for nLight® control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a shaded background*

To learn more about A+, visit www.acuitybrands.com/aplus.
*See ordering tree for details


GOTHAM ARCHITECTURAL DOWNLIGHTING | 1400 Lester Road Conyers, GA 30012 | P 800-705-SERV (7378) | gothamlighting.com

Partially finished mud ring, showing cross-section detail.



An EVO downlight requires only approximately 3" of plaster to finish.

EVO with flangeless trim

**Flangeless Installation**

Gotham's flangeless option utilizes a micro-thin polymer mud ring that minimizes the amount of drywall compound required to finish the ceiling. The end result is a virtually undetectable flangeless downlight installation.

The polymer mud ring is installed independent of the of the recessed frame, therefore floating with the ceiling. This innovation minimizes any surface cracks during reflector installation, ceiling movement and any future service to the recessed frame, wiring, electronics, etc.

| Marked Spacing in Inches 25°C Ambient | | | |
|---|---|---|---|
| Lumen Package | Fixed Center to Center MIN | Fixture Center to Building Member MIN | Space Above Fixture |
| 500-5000 | None | None | None |
| 6000 | 24 | 12 | 5 |
| 8000 | 36 | 18 | 11 |
| 10000 | | | 9 |
| 12000 | | | |
| 15000 | | | |
| 17500 | 72 | 36 | |

| Marked Spacing in Inches 40°C Ambient | | | |
|---|---|---|---|
| Lumen Package | Fixed Center to Center MIN | Fixture Center to Building Member MIN | Space Above Fixture |
| 5000 | 24 | 12 | 5 |
| 6000 | | | |
| 8000 | 48 | 24 | 9 |
| 10000 | | | |
| 12000 | | | |
| 15000 | 72 | 36 | 9 |

| Marked Spacing Chicago Plenum Open Frame in Inches 25°C Ambient | | | |
|---|---|---|---|
| Lumen Package | Fixed Center to Center MIN | Fixture Center to Building Member MIN | Space Above Fixture |
| 250-5000 | None | None | None |
| 6000 | 24 | 12 | 5 |
| 8000 | 36 | 18 | 11 |
| 10000 | | | 9 |
| 12000 | | | |
| 15000 | | | |
| 17500 | 72 | 36 | |

| Marked Spacing Chicago Plenum Enclosure in Inches 25°C Ambient | | | |
|---|---|---|---|
| Lumen Package | Fixed Center to Center MIN | Fixture Center to Building Member MIN | Space Above Fixture |
| 250-6000 | None | None | None |
| 8000 | 36 | 18 | 6 |
| 10000 | 48 | 24 | 3 |
| 12000 | | | |

| EVO - eldoLED Driver Default Dimming Curve | | | |
|---|---|---|---|
| Nomenclature | Min Dimming | Driver Dim Curve | Control Dim Curve |
| EZ10 | 10% | Linear | Linear/Logarithmic |
| EZ1 | 1% | Linear | Linear/Logarithmic |
| EXA1 | 1% | Linear | Linear/Logarithmic |
| EZB | <1% | Logarithmic | Linear |
| EDAB | <1% | Logarithmic | Linear |
| EXAB | <1% | Logarithmic | Linear |
| EDXB | <1% | Square | Linear |

| Driver | | Control Provided (note: 347V/UVOLT versions provided with 347 option selected) | | | |
|---|---|---|---|---|---|
| Nomenclature | Description | NLT | NLTER | NLTAIR2 | NLTAIRER2 |
| GZ10 | 0-10V driver dims to 10% | nPP16 D EFP | nPP16 D ER EFP | RPP20 D 24V G2 | RPP20 D 24V ER G2 |
| GZ1 | 0-10V driver dims to 1% | nPP16 D EFP | nPP16 D ER EFP | RPP20 D 24V G2 | RPP20 D 24V ER G2 |
| EZ10 | eldoLED 0-10V ECOdrive | nPS 80 EZ | nPS 80 EZ ER | RPP20 D 24V G2 | RPP20 D 24V ER G2 |
| EZ1 | eldoLED 0-10V ECOdrive | nPS 80 EZ | nPS 80 EZ ER | RPP20 D 24V G2 | RPP20 D 24V ER G2 |
| EZB | eldoLED 0-10V SOLOdrive | nPS 80 EZ | nPS 80 EZ ER | RPP20 D 24V G2 | RPP20 D 24V ER G2 |

## How to Estimate Delivered Lumens in Emergency Mode

**Delivered Lumens = 1.25 x P x LPW**

P = Output power of emergency driver. P = 10W for PS1055CP

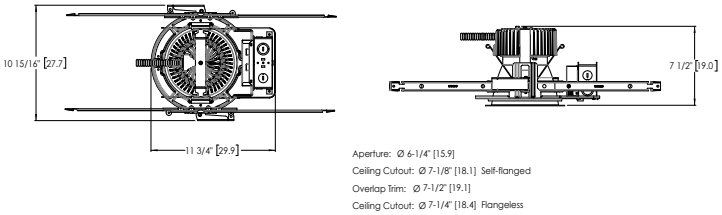
LPW = Lumen per watt rating of the luminaire. This information is available on the ABL luminaire spec sheet.

DIMENSIONAL DATA

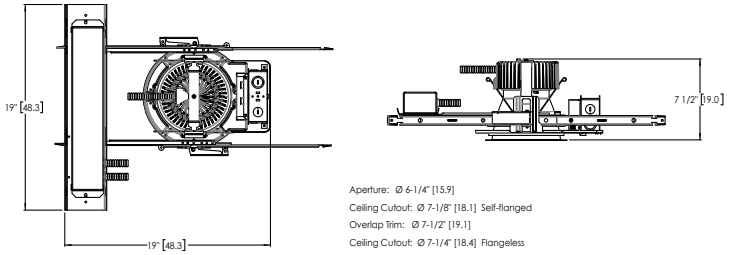
*Dimensions in inches [centimeters]

| | |
|---|---|
| Aperture: 6 1/4" [15.9)] | Ceiling Opening: 7 1/8" [18.1] self-flanged |
| Overlap Trim: 7 1/2" [19.1] | 7 1/4" [18.4] flangeless |

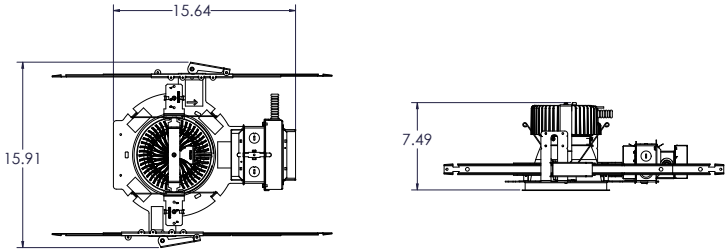
## 250LM-5000LM Standard



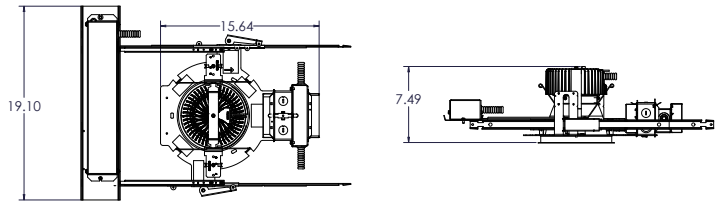

## 250LM-5000LM Battery Pack



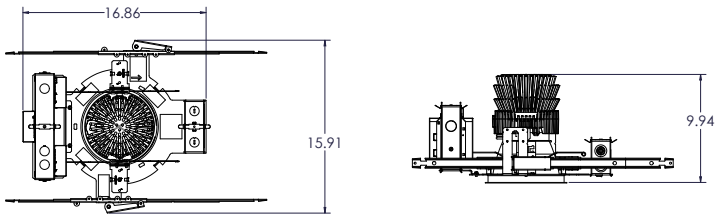

## 6000LM-8000LM Standard



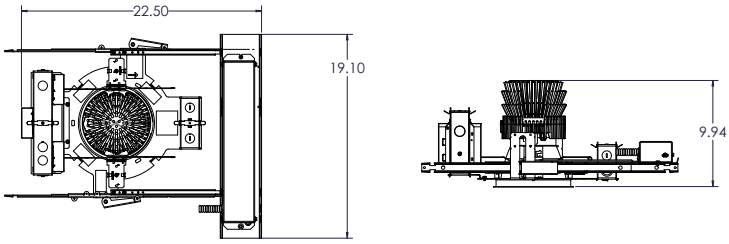

## 6000LM-8000LM Battery Pack




## 10,000LM-17,500LM Standard




## 10,000LM-17,500LM Battery Pack





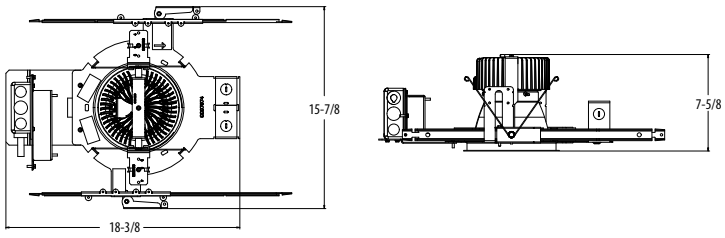



gotham®

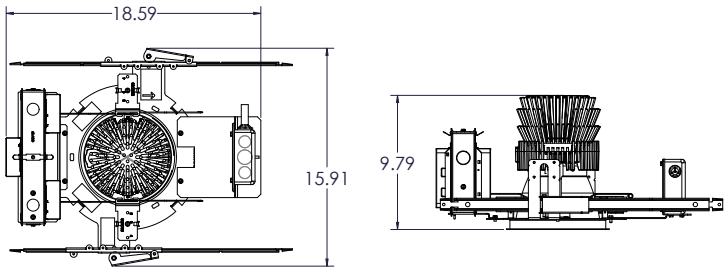
DIMENSIONAL DATA

*Dimensions in inches [centimeters]

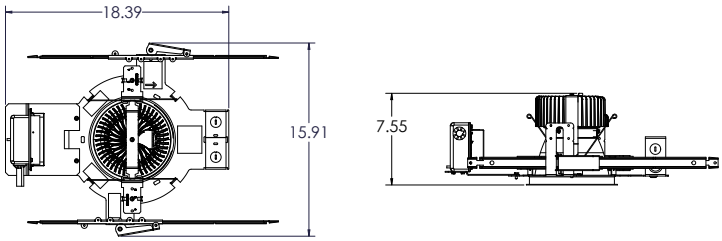
### 250LM-4500LM CP



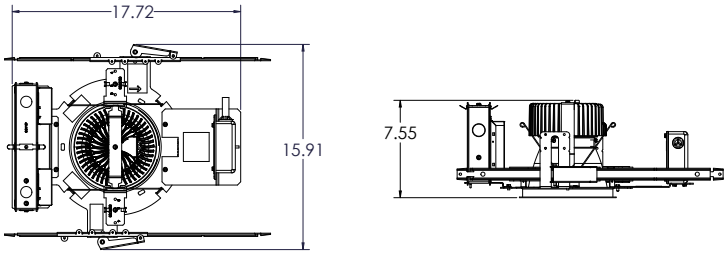

### 10000LM - 17,500LM Lumen Open Frame CP



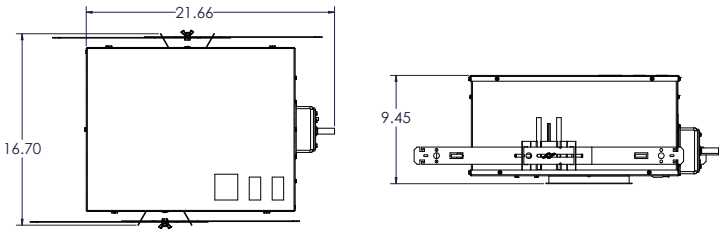

### 5000LM ECO/SOLO Drive Open Frame CP



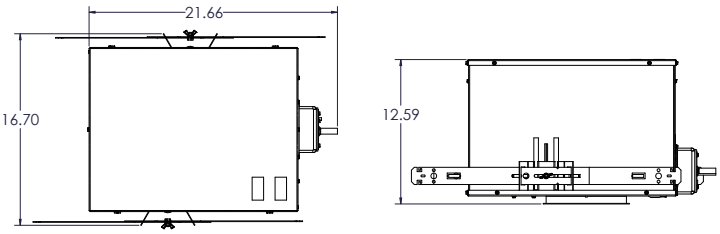

### 5000LM (Lutron & POWER Drive Only), 6000LM & 8000LM Open Frame CP



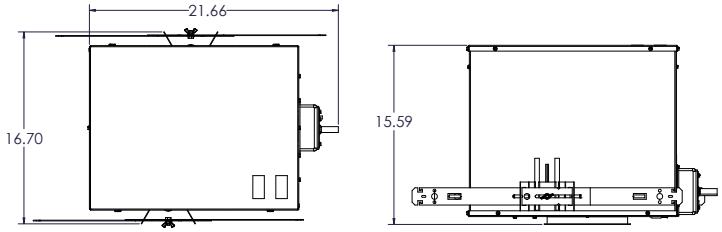

### 250LM - 6000LM CP Enclosed with Battery Pack and/or nLight™ Only



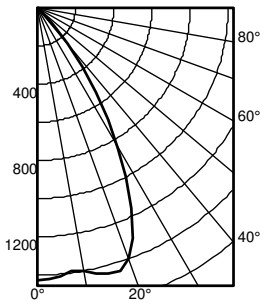

### 8,000LM CP Enclosed with Battery Pack and/or nLight™ Only




### 10,000LM-12,000LM CP Enclosed with Battery Pack and/or nLight™ Only



## EV06 35/15 AR MWD LS INPUT WATTS: 14.7, DELIVERED LUMENS: 1471LM, LPW= 100, 1.03 S/MH, TEST NO. LTL27783P1505



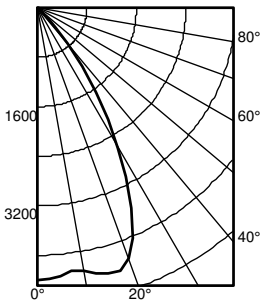

| | Ave | Lumens |
|---|---|---|
| 0 | 1431 | |
| 5 | 1410 | 134 |
| 15 | 1442 | 405 |
| 25 | 1161 | 523 |
| 35 | 540 | 332 |
| 45 | 78 | 72 |
| 55 | 3 | 4 |
| 65 | 1 | 1 |
| 75 | 0 | 1 |
| 85 | 0 | 0 |
| 90 | 0 | |

| Zone | Lumens | % Lamp |
|---|---|---|
| 0° - 30° | 1061.4 | 72.2 |
| 0° - 40° | 1393.5 | 94.7 |
| 0° - 60° | 1469.5 | 99.9 |
| 0° - 90° | 1470.9 | 100.0 |
| 90° - 180° | 0.0 | 0.0 |
| 0° - 180° | 1470.9 | *100.0 |
| *Efficiency | | |

| pf | 80% | | | 20% | | | 50% | | |
|---|---|---|---|---|---|---|---|---|---|
| pc | 70% | | | | | | | | |
| pw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% |
| 0 | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 111 |
| 1 | 111 | 108 | 106 | 109 | 106 | 104 | 105 | 103 | 101 |
| 2 | 103 | 99 | 96 | 101 | 98 | 95 | 98 | 95 | 93 |
| 3 | 96 | 91 | 87 | 95 | 90 | 87 | 92 | 88 | 85 |
| 4 | 90 | 84 | 80 | 89 | 84 | 80 | 87 | 82 | 79 |
| 5 | 84 | 78 | 74 | 83 | 78 | 74 | 81 | 77 | 73 |
| 6 | 79 | 73 | 69 | 78 | 73 | 69 | 77 | 72 | 68 |
| 7 | 74 | 68 | 64 | 74 | 68 | 64 | 72 | 67 | 63 |
| 8 | 70 | 64 | 60 | 69 | 64 | 60 | 68 | 63 | 59 |
| 9 | 66 | 60 | 56 | 65 | 60 | 56 | 64 | 59 | 56 |
| 10 | 62 | 56 | 52 | 62 | 56 | 52 | 61 | 56 | 52 |

| | | 50% beam - 54.4° | | 10% beam - 77.9° | |
|---|---|---|---|---|---|
| Mounting Height | Inital FC Center Beam | Diameter | FC | Diameter | FC |
| 8.0 | 47.3 | 5.7 | 23.7 | 8.9 | 4.7 |
| 10.0 | 25.4 | 7.7 | 12.7 | 12.1 | 2.5 |
| 12.0 | 15.9 | 9.8 | 7.9 | 15.3 | 1.6 |
| 14.0 | 10.8 | 11.8 | 5.4 | 18.6 | 1.1 |
| 16.0 | 7.9 | 13.9 | 3.9 | 21.8 | 0.8 |

## EV06 35/45 AR MWD LS INPUT WATTS: 47.3, DELIVERED LUMENS: 4532.7LM, LPW= 95.8, 1.03 S/MH, TEST NO. LTL27783P1649



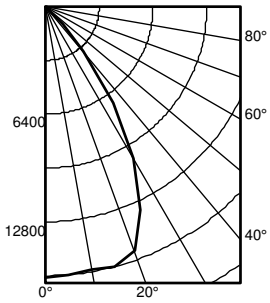

| | Ave | Lumens |
|---|---|---|
| 0 | 4411 | |
| 5 | 4346 | 413 |
| 15 | 4443 | 1247 |
| 25 | 3578 | 1610 |
| 35 | 1665 | 1024 |
| 45 | 242 | 222 |
| 55 | 8 | 12 |
| 65 | 2 | 3 |
| 75 | 1 | 2 |
| 85 | 0 | 0 |
| 90 | 0 | |

| Zone | Lumens | % Lamp |
|---|---|---|
| 0° - 30° | 3270.7 | 72.2 |
| 0° - 40° | 4294.2 | 94.7 |
| 0° - 60° | 4528.3 | 99.9 |
| 0° - 90° | 4532.7 | 100.0 |
| 90° - 180° | 0.0 | 0.0 |
| 0° - 180° | 4532.7 | *100.0 |
| *Efficiency | | |

| pf | 80% | | | 20% | | | 50% | | |
|---|---|---|---|---|---|---|---|---|---|
| pc | 70% | | | | | | | | |
| pw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% |
| 0 | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 111 |
| 1 | 111 | 108 | 106 | 109 | 106 | 104 | 105 | 103 | 101 |
| 2 | 103 | 99 | 96 | 101 | 98 | 95 | 98 | 95 | 93 |
| 3 | 96 | 91 | 87 | 95 | 90 | 87 | 92 | 88 | 85 |
| 4 | 90 | 84 | 80 | 89 | 84 | 80 | 87 | 82 | 79 |
| 5 | 84 | 78 | 74 | 83 | 78 | 74 | 81 | 77 | 73 |
| 6 | 79 | 73 | 69 | 78 | 73 | 69 | 77 | 72 | 68 |
| 7 | 74 | 68 | 64 | 74 | 68 | 64 | 72 | 67 | 63 |
| 8 | 70 | 64 | 60 | 69 | 64 | 60 | 68 | 63 | 59 |
| 9 | 66 | 60 | 56 | 65 | 60 | 56 | 64 | 59 | 56 |
| 10 | 62 | 56 | 52 | 62 | 56 | 52 | 61 | 56 | 52 |

| | | 50% beam - 54.4° | | 10% beam - 77.9° | |
|---|---|---|---|---|---|
| Mounting Height | Inital FC Center Beam | Diameter | FC | Diameter | FC |
| 8.0 | 145.8 | 5.7 | 72.9 | 8.9 | 14.6 |
| 10.0 | 78.4 | 7.7 | 39.2 | 12.1 | 7.8 |
| 12.0 | 48.9 | 9.8 | 24.4 | 15.3 | 4.9 |
| 14.0 | 33.4 | 11.8 | 16.7 | 18.6 | 3.3 |
| 16.0 | 24.2 | 13.9 | 12.1 | 21.8 | 2.4 |

## EV06 35/175 AR MWD LS INPUT WATTS: 175.3, DELIVERED LUMENS: 17801LM, LPW=101.5, 1.06 S/MH, TEST NO. ISF 34035P268




| | Ave | Lumens |
|---|---|---|
| 0 | 16146 | |
| 5 | 15998 | 1521 |
| 15 | 16006 | 4479 |
| 25 | 13362 | 6001 |
| 35 | 7018 | 4289 |
| 45 | 1470 | 1299 |
| 55 | 100 | 156 |
| 65 | 37 | 38 |
| 75 | 13 | 14 |
| 85 | 2 | 2 |
| 90 | 0 | |

| Zone | Lumens | % Lamp |
|---|---|---|
| 0° - 30° | 12002.3 | 67.4 |
| 0° - 40° | 16291.0 | 91.5 |
| 0° - 60° | 17746.3 | 99.7 |
| 0° - 90° | 17801.0 | 100.0 |
| 90° - 120° | 0.0 | 0.0 |
| 90° - 130° | 0.0 | 0.0 |
| 90° - 150° | 0.0 | 0.0 |
| 90° - 180° | 0.0 | 0.0 |
| 0° - 180° | 17801.0 | *100.0 |
| *Efficiency | | |

| pf | 80% | | | 20% | | | 50% | | |
|---|---|---|---|---|---|---|---|---|---|
| pc | 70% | | | | | | | | |
| pw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% |
| 0 | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 111 |
| 1 | 111 | 108 | 106 | 108 | 106 | 104 | 104 | 103 | 101 |
| 2 | 103 | 98 | 95 | 101 | 97 | 94 | 98 | 95 | 92 |
| 3 | 95 | 90 | 86 | 94 | 89 | 86 | 91 | 87 | 84 |
| 4 | 89 | 83 | 79 | 88 | 82 | 78 | 85 | 81 | 77 |
| 5 | 83 | 77 | 72 | 82 | 76 | 72 | 80 | 75 | 71 |
| 6 | 77 | 71 | 67 | 77 | 71 | 67 | 75 | 70 | 66 |
| 7 | 73 | 66 | 62 | 72 | 66 | 62 | 71 | 65 | 61 |
| 8 | 68 | 62 | 58 | 67 | 62 | 57 | 66 | 61 | 57 |
| 9 | 64 | 58 | 54 | 63 | 58 | 54 | 62 | 57 | 53 |
| 10 | 60 | 54 | 50 | 60 | 54 | 50 | 59 | 54 | 50 |

| | | 50% beam - 55.7° | | 10% beam - 79.8° | |
|---|---|---|---|---|---|
| Mounting Height | Inital FC Center Beam | Diameter | FC | Diameter | FC |
| 8.0 | 533.7 | 5.8 | 266.9 | 9.2 | 53.4 |
| 10.0 | 287.0 | 7.9 | 143.5 | 12.5 | 28.7 |
| 12.0 | 178.9 | 10.0 | 89.4 | 15.9 | 17.9 |
| 14.0 | 122.1 | 12.1 | 61.0 | 19.2 | 12.2 |
| 16.0 | 88.6 | 14.3 | 44.3 | 22.6 | 8.9 |

| Lumen Output Multiplier | | |
|---|---|---|
| CRI | CCT | Multplier |
| 80 | 2700K | 0.96 |
| | 300K | 1.00 |
| | 3500K | 1.00 |
| | 4000K | 1.01 |
| | 5000K | 1.07 |
| 90 | 2700K | 0.80 |
| | 300K | 0.83 |
| | 3500K | 0.85 |
| | 4000K | 0.87 |
| | 5000K | 0.91 |

| Reflector Finish Multiplier | |
|---|---|
| Reflector Finish | Multiplier |
| LS - Specular | 1 |
| LSS - Semi Specular | 0.956 |
| WR - White | 0.87 |
| LD - Matte Diffuse | 0.85 |
| BR - Black | 0.73 |

| Distributions | | |
|---|---|---|
| Nomenclature | Beam Angle | Field Angle |
| VND | 30 | 64 |
| ND | 44 | 69 |
| MD | 54 | 82 |
| MWD | 67 | 89 |
| WD | 71 | 92 |

# D-Series Size 1
## LED Wall Luminaire

Catalog Number

Notes

Type

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

d-series

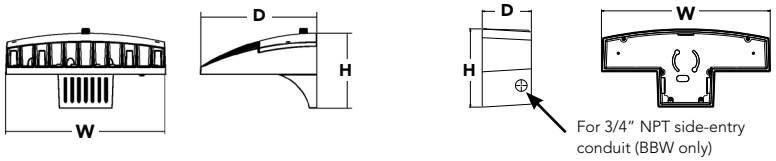
## Specifications

### Luminaire

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

### Back Box (BBW, E20WC)

| | | | |
|---|---|---|---|
| **Width:** | 13-3/4" (34.9 cm) | **BBW Weight:** | 5 lbs (2.3 kg) |
| **Depth:** | 4" (10.2 cm) | **E20WC Weight:** | 10 lbs (4.5 kg) |
| **Height:** | 6-3/8" (16.2 cm) | | |




## Introduction

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

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

## Ordering Information

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

**DSXW1 LED**

| Series | LEDs | Drive Current | Color temperature | Distribution | Voltage | Mounting | Control Options |
|---|---|---|---|---|---|---|---|
| DSXW1 LED | 10C 10 LEDs (one engine)<br>20C 20 LEDs (two engines) [1] | 350 350 mA<br>530 530 mA<br>700 700 mA<br>1000 1000 mA (1 A) [1] | 30K 3000 K<br>40K 4000 K<br>50K 5000 K<br>AMBPC Amber phosphor converted | T2S Type II Short<br>T2M Type II Medium<br>T3S Type III Short<br>T3M Type III Medium<br>T4M Type IV Medium<br>TFTM Forward Throw Medium | MVOLT [2]<br>120 [3]<br>208 [3]<br>240 [3]<br>277 [3]<br>347 [3,4]<br>480 [3,4] | **Shipped included**<br>(blank) Surface mounting bracket<br>BBW Surface-mounted back box (for conduit entry) [5] | **Shipped installed**<br>PE Photoelectric cell, button type [6]<br>DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately)<br>PIR 180° motion/ambient light sensor, <15' mtg ht [1,7]<br>PIRH 180° motion/ambient light sensor, 15-30' mtg ht [1,7]<br>PIR1FC3V Motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc [1,7]<br>PIRH1FC3V Motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc [1,7]<br>E20WC Emergency battery backup (includes external component enclosure), CA Title 20 compliant [8,9] |

### Other Options

**Shipped installed**

| | |
|---|---|
| SF | Single fuse (120, 277 or 347V) [3,10] |
| DF | Double fuse (208, 240 or 480V) [3,10] |
| HS | House-side shield [11] |
| SPD | Separate surge protection [12] |

**Shipped separately** [11]

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

### Finish *(required)*

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

## Accessories

*Ordered and shipped separately.*

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

**NOTES**

1. 20C 1000 is not available with PIR, PIRH, PIR1FC3V or PIRH1FC3V.
2. MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
3. Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
4. Only available with 20C, 700mA or 1000mA. Not available with PIR or PIRH.
5. Back box ships installed on fixture. Cannot be field installed. Cannot be ordered as an accessory.
6. Photocontrol (PE) requires 120, 208, 240, 277 or 347 voltage option. Not available with motion/ambient light sensors (PIR or PIRH).
7. Reference Motion Sensor table on page 3.
8. Same as old ELCW. Cold weather (-20C) rated. Not compatible with conduit entry applications. Not available with BBW mounting option. Not available with fusing. Not available with 347 or 480 voltage options. Emergency components located in back box housing. Emergency mode IES files located on product page at www.lithonia.com
9. Not available with SPD.
10. Not available with E20WC.
11. Also available as a separate accessory; see Accessories information.
12. Not available with E20WC.

## Performance Data

### Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Contact factory for performance data on any configurations not shown here.

| LEDs | Drive Current (mA) | System Watts | Dist. Type | 30K (3000 K, 70CRI) | | | | | 40K (4000 K, 70CRI) | | | | | 50K (5000 K, 70CRI) | | | | | AMBPC (Amber Phosphor Converted) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW |
| 10C (10 LEDs) | 350mA | 13W | T2S | 1,415 | 0 | 0 | 1 | 109 | 1,520 | 0 | 0 | 1 | 117 | 1,530 | 0 | 0 | 1 | 118 | 894 | 0 | 0 | 1 | 69 |
| | | | T2M | 1,349 | 0 | 0 | 1 | 104 | 1,448 | 0 | 0 | 1 | 111 | 1,458 | 0 | 0 | 1 | 112 | 852 | 0 | 0 | 1 | 66 |
| | | | T3S | 1,399 | 0 | 0 | 1 | 108 | 1,503 | 0 | 0 | 1 | 116 | 1,512 | 0 | 0 | 1 | 116 | 884 | 0 | 0 | 1 | 68 |
| | | | T3M | 1,385 | 0 | 0 | 1 | 107 | 1,488 | 0 | 0 | 1 | 114 | 1,497 | 0 | 0 | 1 | 115 | 876 | 0 | 0 | 1 | 67 |
| | | | T4M | 1,357 | 0 | 0 | 1 | 104 | 1,458 | 0 | 0 | 1 | 112 | 1,467 | 0 | 0 | 1 | 113 | 858 | 0 | 0 | 1 | 66 |
| | | | TFTM | 1,411 | 0 | 0 | 1 | 109 | 1,515 | 0 | 0 | 1 | 117 | 1,525 | 0 | 0 | 1 | 117 | 892 | 0 | 0 | 1 | 69 |
| | 530 mA | 19W | T2S | 2,053 | 1 | 0 | 1 | 108 | 2,205 | 1 | 0 | 1 | 116 | 2,220 | 1 | 0 | 1 | 117 | 1,264 | 0 | 0 | 1 | 67 |
| | | | T2M | 1,957 | 1 | 0 | 1 | 103 | 2,102 | 1 | 0 | 1 | 111 | 2,115 | 1 | 0 | 1 | 111 | 1,205 | 0 | 0 | 1 | 63 |
| | | | T3S | 2,031 | 1 | 0 | 1 | 107 | 2,181 | 1 | 0 | 1 | 115 | 2,194 | 1 | 0 | 1 | 115 | 1,250 | 0 | 0 | 1 | 66 |
| | | | T3M | 2,010 | 1 | 0 | 1 | 106 | 2,159 | 1 | 0 | 1 | 114 | 2,172 | 1 | 0 | 1 | 114 | 1,237 | 0 | 0 | 1 | 65 |
| | | | T4M | 1,970 | 1 | 0 | 1 | 104 | 2,115 | 1 | 0 | 1 | 111 | 2,129 | 1 | 0 | 1 | 112 | 1,212 | 0 | 0 | 1 | 64 |
| | | | TFTM | 2,047 | 0 | 0 | 1 | 108 | 2,198 | 1 | 0 | 1 | 116 | 2,212 | 1 | 0 | 1 | 116 | 1,260 | 0 | 0 | 1 | 66 |
| | 700 mA | 26W | T2S | 2,623 | 1 | 0 | 1 | 101 | 2,816 | 1 | 0 | 1 | 108 | 2,834 | 1 | 0 | 1 | 109 | 1,544 | 0 | 0 | 1 | 59 |
| | | | T2M | 2,499 | 1 | 0 | 1 | 96 | 2,684 | 1 | 0 | 1 | 103 | 2,701 | 1 | 0 | 1 | 104 | 1,472 | 0 | 0 | 1 | 57 |
| | | | T3S | 2,593 | 1 | 0 | 1 | 100 | 2,785 | 1 | 0 | 1 | 107 | 2,802 | 1 | 0 | 1 | 108 | 1,527 | 0 | 0 | 1 | 59 |
| | | | T3M | 2,567 | 1 | 0 | 1 | 99 | 2,757 | 1 | 0 | 1 | 106 | 2,774 | 1 | 0 | 1 | 107 | 1,512 | 0 | 0 | 1 | 58 |
| | | | T4M | 2,515 | 1 | 0 | 1 | 97 | 2,701 | 1 | 0 | 1 | 104 | 2,718 | 1 | 0 | 1 | 105 | 1,481 | 0 | 0 | 1 | 57 |
| | | | TFTM | 2,614 | 1 | 0 | 1 | 101 | 2,808 | 1 | 0 | 1 | 108 | 2,825 | 1 | 0 | 1 | 109 | 1,539 | 0 | 0 | 1 | 59 |
| | 1000 mA | 39W | T2S | 3,685 | 1 | 0 | 1 | 94 | 3,957 | 1 | 0 | 1 | 101 | 3,982 | 1 | 0 | 1 | 102 | 2,235 | 1 | 0 | 1 | 57 |
| | | | T2M | 3,512 | 1 | 0 | 1 | 90 | 3,771 | 1 | 0 | 1 | 97 | 3,794 | 1 | 0 | 1 | 97 | 2,130 | 1 | 0 | 1 | 55 |
| | | | T3S | 3,644 | 1 | 0 | 1 | 93 | 3,913 | 1 | 0 | 1 | 100 | 3,938 | 1 | 0 | 1 | 101 | 2,210 | 1 | 0 | 1 | 57 |
| | | | T3M | 3,607 | 1 | 0 | 1 | 92 | 3,873 | 1 | 0 | 1 | 99 | 3,898 | 1 | 0 | 1 | 100 | 2,187 | 1 | 0 | 1 | 56 |
| | | | T4M | 3,534 | 1 | 0 | 2 | 91 | 3,796 | 1 | 0 | 2 | 97 | 3,819 | 1 | 0 | 2 | 98 | 2,143 | 1 | 0 | 1 | 55 |
| | | | TFTM | 3,673 | 1 | 0 | 1 | 94 | 3,945 | 1 | 0 | 1 | 101 | 3,969 | 1 | 0 | 1 | 102 | 2,228 | 1 | 0 | 1 | 57 |
| 20C (20 LEDs) | 350mA | 23W | T2S | 2,820 | 1 | 0 | 1 | 123 | 3,028 | 1 | 0 | 1 | 132 | 3,047 | 1 | 0 | 1 | 132 | 1,777 | 1 | 0 | 1 | 77 |
| | | | T2M | 2,688 | 1 | 0 | 1 | 117 | 2,886 | 1 | 0 | 1 | 125 | 2,904 | 1 | 0 | 1 | 126 | 1,693 | 1 | 0 | 1 | 74 |
| | | | T3S | 2,789 | 1 | 0 | 1 | 121 | 2,994 | 1 | 0 | 1 | 130 | 3,014 | 1 | 0 | 1 | 131 | 1,757 | 0 | 0 | 1 | 76 |
| | | | T3M | 2,760 | 1 | 0 | 1 | 120 | 2,965 | 1 | 0 | 1 | 129 | 2,983 | 1 | 0 | 1 | 130 | 1,739 | 1 | 0 | 1 | 76 |
| | | | T4M | 2,704 | 1 | 0 | 1 | 118 | 2,905 | 1 | 0 | 1 | 126 | 2,922 | 1 | 0 | 1 | 127 | 1,704 | 1 | 0 | 1 | 74 |
| | | | TFTM | 2,811 | 1 | 0 | 1 | 122 | 3,019 | 1 | 0 | 1 | 131 | 3,038 | 1 | 0 | 1 | 132 | 1,771 | 0 | 0 | 1 | 77 |
| | 530 mA | 35W | T2S | 4,079 | 1 | 0 | 1 | 117 | 4,380 | 1 | 0 | 1 | 125 | 4,407 | 1 | 0 | 1 | 126 | 2,504 | 1 | 0 | 1 | 72 |
| | | | T2M | 3,887 | 1 | 0 | 1 | 111 | 4,174 | 1 | 0 | 1 | 119 | 4,201 | 1 | 0 | 1 | 120 | 2,387 | 1 | 0 | 1 | 68 |
| | | | T3S | 4,033 | 1 | 0 | 1 | 115 | 4,331 | 1 | 0 | 1 | 124 | 4,359 | 1 | 0 | 1 | 125 | 2,477 | 1 | 0 | 1 | 71 |
| | | | T3M | 3,993 | 1 | 0 | 2 | 114 | 4,288 | 1 | 0 | 2 | 123 | 4,315 | 1 | 0 | 2 | 123 | 2,451 | 1 | 0 | 1 | 70 |
| | | | T4M | 3,912 | 1 | 0 | 2 | 112 | 4,201 | 1 | 0 | 2 | 120 | 4,227 | 1 | 0 | 2 | 121 | 2,402 | 1 | 0 | 1 | 69 |
| | | | TFTM | 4,066 | 1 | 0 | 2 | 116 | 4,366 | 1 | 0 | 2 | 125 | 4,394 | 1 | 0 | 2 | 126 | 2,496 | 1 | 0 | 1 | 71 |
| | 700 mA | 46W | T2S | 5,188 | 1 | 0 | 1 | 113 | 5,572 | 1 | 0 | 1 | 121 | 5,607 | 1 | 0 | 1 | 122 | 3,065 | 1 | 0 | 1 | 67 |
| | | | T2M | 4,945 | 1 | 0 | 2 | 108 | 5,309 | 1 | 0 | 2 | 115 | 5,343 | 1 | 0 | 2 | 116 | 2,921 | 1 | 0 | 1 | 64 |
| | | | T3S | 5,131 | 1 | 0 | 2 | 112 | 5,510 | 1 | 0 | 2 | 120 | 5,544 | 1 | 0 | 2 | 121 | 3,031 | 1 | 0 | 1 | 66 |
| | | | T3M | 5,078 | 1 | 0 | 2 | 110 | 5,454 | 1 | 0 | 2 | 119 | 5,487 | 1 | 0 | 2 | 119 | 3,000 | 1 | 0 | 1 | 65 |
| | | | T4M | 4,975 | 1 | 0 | 2 | 108 | 5,343 | 1 | 0 | 2 | 116 | 5,376 | 1 | 0 | 2 | 117 | 2,939 | 1 | 0 | 1 | 64 |
| | | | TFTM | 5,172 | 1 | 0 | 2 | 112 | 5,554 | 1 | 0 | 2 | 121 | 5,589 | 1 | 0 | 2 | 122 | 3,055 | 1 | 0 | 1 | 66 |
| | 1000 mA | 73W | T2S | 7,204 | 1 | 0 | 2 | 99 | 7,736 | 2 | 0 | 2 | 106 | 7,784 | 2 | 0 | 2 | 107 | 4,429 | 1 | 0 | 1 | 61 |
| | | | T2M | 6,865 | 1 | 0 | 2 | 94 | 7,373 | 2 | 0 | 2 | 101 | 7,419 | 2 | 0 | 2 | 102 | 4,221 | 1 | 0 | 1 | 58 |
| | | | T3S | 7,125 | 1 | 0 | 2 | 98 | 7,651 | 1 | 0 | 2 | 105 | 7,698 | 1 | 0 | 2 | 105 | 4,380 | 1 | 0 | 1 | 60 |
| | | | T3M | 7,052 | 1 | 0 | 2 | 97 | 7,573 | 2 | 0 | 2 | 104 | 7,620 | 2 | 0 | 2 | 104 | 4,335 | 1 | 0 | 2 | 59 |
| | | | T4M | 6,909 | 1 | 0 | 2 | 95 | 7,420 | 1 | 0 | 2 | 102 | 7,466 | 1 | 0 | 2 | 102 | 4,248 | 1 | 0 | 2 | 58 |
| | | | TFTM | 7,182 | 1 | 0 | 2 | 98 | 7,712 | 1 | 0 | 2 | 106 | 7,761 | 1 | 0 | 2 | 106 | 4,415 | 1 | 0 | 2 | 60 |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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 | 1.02 |
| 10°C | 50°F | 1.01 |
| 20°C | 68°F | 1.00 |
| **25°C** | **77°F** | **1.00** |
| 30°C | 86°F | 1.00 |
| 40°C | 104°F | 0.98 |

## Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **DSXW1 LED 20C 1000** platform in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

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

| Operating Hours | 0 | 25,000 | 50,000 | 100,000 |
|---|---|---|---|---|
| Lumen Maintenance Factor | 1.0 | 0.95 | 0.93 | 0.88 |

## Electrical Load

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

## Motion Sensor Default Settings

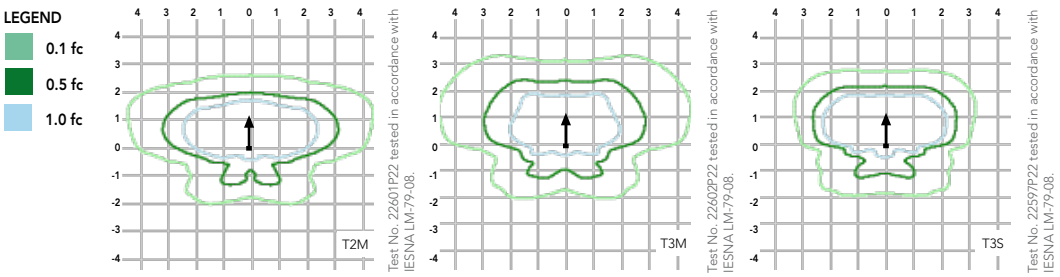
| Option | Dimmed State | High Level (when triggered) | Photocell Operation | Dwell Time | Ramp-up Time | Ramp-down Time |
|---|---|---|---|---|---|---|
| PIR or PIRH | 3V (37%) Output | 10V (100%) Output | Enabled @ 5FC | 5 min | 3 sec | 5 min |
| *PIR1FC3V or PIRH1FC3V | 3V (37%) Output | 10V (100%) Output | Enabled @ 1FC | 5 min | 3 sec | 5 min |

*For use when motion sensor is used as dusk to dawn control

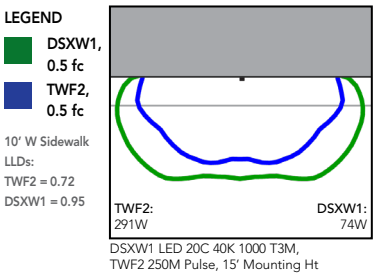
# Photometric Diagrams

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

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




Distribution overlay comparison to 250W metal halide.




DSXW1 LED 20C 40K 1000 T3M, TWF2 250M Pulse, 15' Mounting Ht

# Options and Accessories

**T3M (left)**

**HS - House-side shields**

**BSW - Bird-deterrent spikes**

**VG - Vandal guard**

**DDL - Diffused drop lens**

## FEATURES & SPECIFICATIONS

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

### CONSTRUCTION
Two-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance. The LED driver is mounted to the door to thermally isolate it from the light engines for low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65).

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

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

### ELECTRICAL
Light engine(s) consist of 10 high-efficacy LEDs mounted to a metal-core circuit board to maximize heat dissipation and promote long life (L88/100,000 hrs at 25°C). Class 1 electronic drivers have a power factor >90%, THD <20%, and a minimum 2.5KV surge rating. When ordering the SPD option, a separate surge protection device is installed within the luminaire which meets a minimum Category C Low (per ANSI/IEEE C62.41.2).

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

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

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

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

### WARRANTY
Five-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.