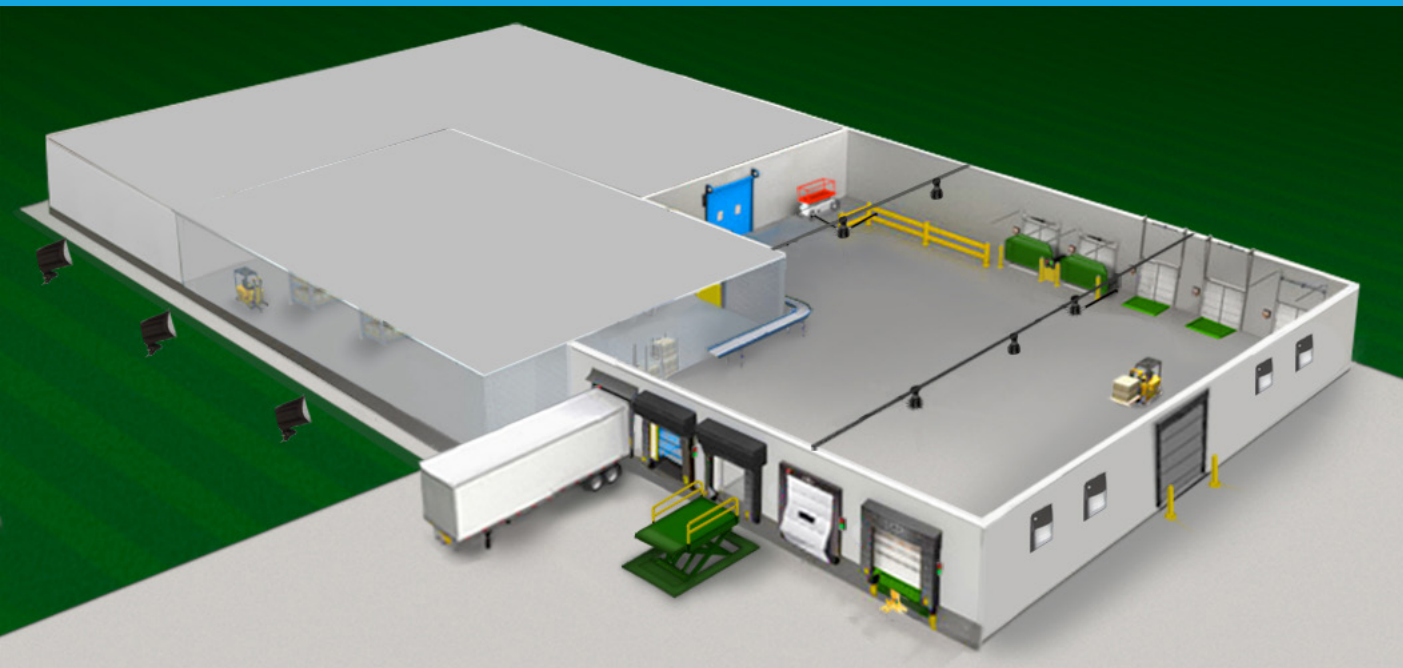




# OUTDOOR LIGHTING

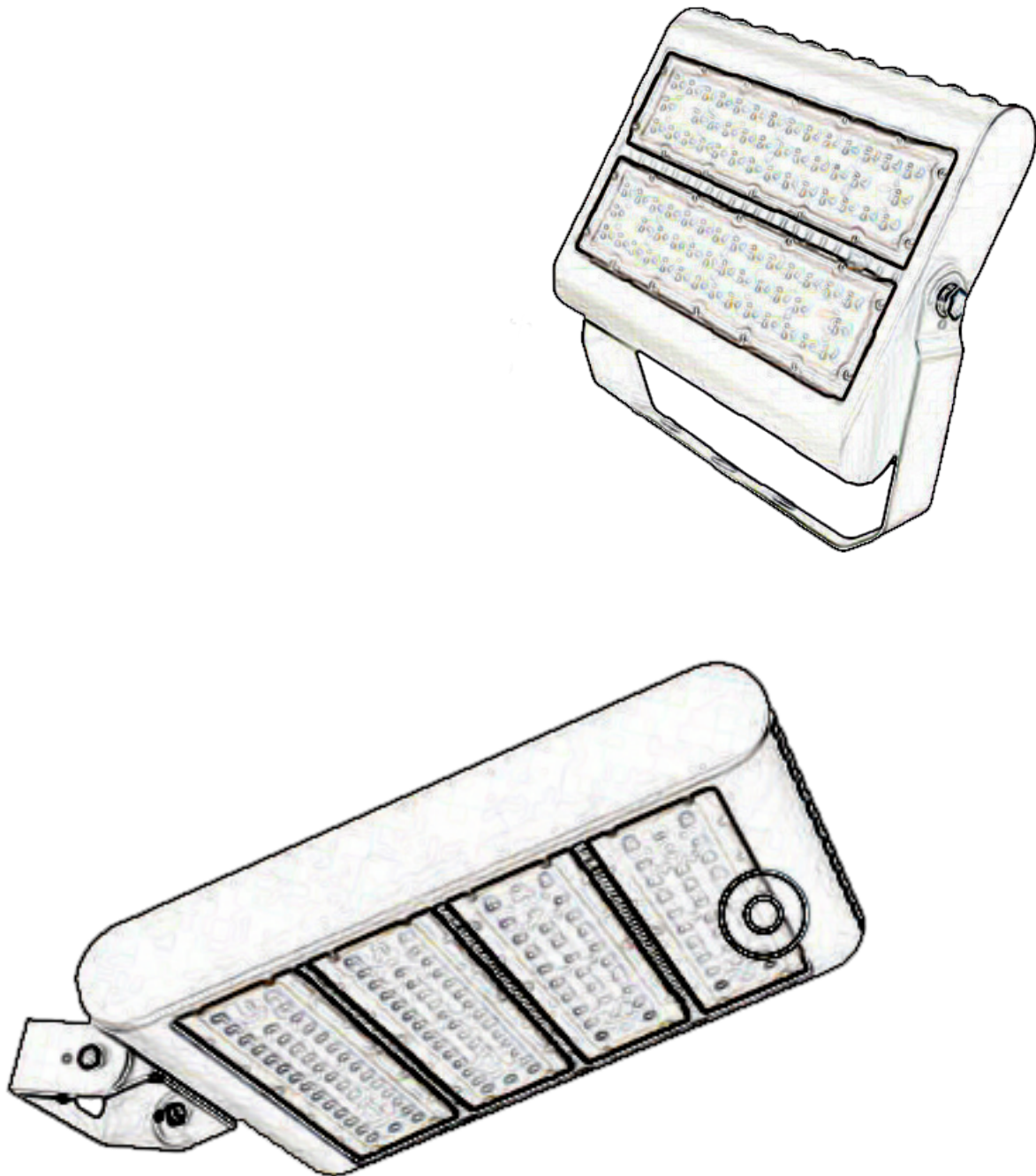
USA QuickShip program

americanlite®

We light your world™



# Floodlights™ and Streetlights™



## Multi-Purpose Area luminaire Sensor Ready



## STANDARDS



## HOUSING

- Premium powder-coat, die cast aluminum, Bronze housing.

## ELECTRICAL

- Operating temperature (ambient): -40°C to 50°C (-40°F to 122°F).
- Universal 120-277V or 277-480V AC voltage (50-60Hz) with 6-foot incoming power cords.
- 0-10V DC dimming drivers are standard.
- IES roadway distributions include type III & V.
- Watertight, compression-type electrical connectors.
- Input transient surge protection = 6kV.
- PF > 0.9; THD < 20%.

## OPTICAL SYSTEM

- Polycarbonate lens.
- Field selectable 3000K (warm white), 4000K (neutral white) and 5000K (cool white) color temperatures.\*
- MPALSR-241812L-3CCT provides a range of 12,267 to 25,747 nominal lumens.\*
- MPALSR-403224L-3CCT provides a range of 23,377 to 41,366 nominal lumens.\*
- Long-life LEDs provide 167,000 hours of operation with at least 70% of initial lumen output (L70), and 51,000 hours with at least 90% of initial lumen output (L90).\*\*
- Screw in sensor ready. Sensor and remote control sold separately. Remote control required to change factory sensor settings.
- LED chromaticity based on < 6-step ANSI quadrangles.
- LED color maintenance < 0.0019 chromaticity shift ( $\Delta u'v'$ ) over the initial 6,000 hours of operation.
- Color Rendering Index > 70.

\* Default kelvin temperature 4000k and highest lumen output.

\*\* L70 & L90 hours are IES TM-21-11 calculated hours.

## MOUNTING

- Optional Universal Mount (Arm and Slip-fitter combination).
- Optional Adjustable Arm Mounting kit.
- Optional Slip-fitter Mounting kit.
- Optional Yoke Mounting kit.
- Optional Trunnion Mounting kit.

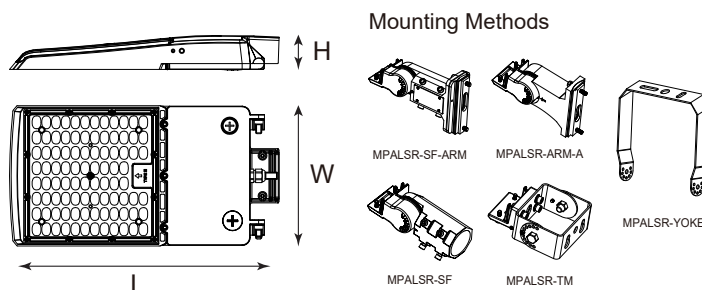
**\* Mounting hardware sold separately. One must be ordered. Pole tenons and tenon adapters available. See all mounting accessories on page 2.**

## CODE COMPLIANCE

- cULus listed for wet locations.
- DLC premium listed
- Complies with FCC Part 15, class A.
- IP65 rated for ingress protection.
- IK08 rated for impact protection.

## WARRANTY

- 5 year warranty on all electronics and housing.



| Model #                        | L (in) | W (in) | H (in) | Weight (lbs) |
|--------------------------------|--------|--------|--------|--------------|
| MPALSR-241812L-3CCT-T3(T5)     | 16.63  | 8.66   | 2.07   | 5.59         |
| MPALSR-403224L-3CCT-T3(T5)     | 20.05  | 11.89  | 2.07   | 8.24         |
| MPALSR-241812L-3CCT-T3(T5)-UNC | 16.63  | 8.66   | 2.07   | 6.21         |
| MPALSR-403224L-3CCT-T3(T5)-UNC | 20.05  | 11.89  | 2.07   | 8.66         |

## ORDERING INFORMATION

Example: MPALSR-241812L-3CCT-T3-UNC

| Model  | Nominal Lumen Output (selectable) |                           | Kelvin (selectable) |                   | Distribution             | Input Voltage                  | Installed Options                  |
|--------|-----------------------------------|---------------------------|---------------------|-------------------|--------------------------|--------------------------------|------------------------------------|
| MPALSR | 241812L                           | 24,000/ 18,000/ 12,000 lm | 3CCT                | 3000/ 4000/ 5000K | T3 Type III<br>T5 Type V | Blank 120-277V<br>UNC 277-480V | PR 3-Pin NEMA Photocell receptacle |
|        | 403224L                           | 40,000/ 32,000/ 24,000 lm |                     |                   |                          |                                |                                    |

## ACCESSORIES (ORDER SEPARATELY)

**Sensor**

|              |   |                                                                                |
|--------------|---|--------------------------------------------------------------------------------|
| HD09VR-PH5-1 | = | Passive infrared sensor - maximum mounting height = 39 FT                      |
| HD09VR-MH5-1 | = | Microwave step-dimming sensor - maximum mounting height = 49 FT                |
| HD05R        | = | Remote control for HD09VR series Sensors (required to change factory settings) |

**\*HD09VR series has 5-dial setting capability.**

**Factory settings or Sensor :** detection = 100%, hold time = 5 sec, stand-by period = 0 sec, stand-by dimming level = 10%, daylight threshold = disabled

**Photocell**

|            |   |                                                                                   |
|------------|---|-----------------------------------------------------------------------------------|
| HD07VR-A-1 | = | 12VDC photocell; RCA jack, factory set to turn on at 10 lux, turns off at 100 lux |
|------------|---|-----------------------------------------------------------------------------------|

**Note: Screws into Sensor RCA receptacle that comes standard on the fixture.**

**NEMA Photocell**

|                |   |                                                                                             |
|----------------|---|---------------------------------------------------------------------------------------------|
| JL-205C23-IP65 | = | 120-277V 3-PIN NEMA Photocell; Rated up to 1800W; Turns on at 6 lux, Turns off at 50 lux    |
| 26WA86         | = | 480V 3-PIN NEMA Photocell; Rated up to 1800W; Turns on at 10-20 lux, turns off at 30-60 lux |

**Note: Fixture must be ordered with optional NEMA 3-pin photocell receptacle (-PR).**

**Mounting Options**

|                   |   |                                                                                           |
|-------------------|---|-------------------------------------------------------------------------------------------|
| MPALSR-SF-ARM     | = | Slip Fitter and Arm Mount Combination (2-3/8" pole or pole tenon, round and square poles) |
| MPALSR-ARM-A      | = | Adjustable Arm Mount (round and square poles)                                             |
| MPALSR-SF         | = | Slip Fitter (2-3/8" pole or pole tenon)                                                   |
| MPALSR-YOKE-S     | = | Yoke for MPALSR-241812L                                                                   |
| MPALSR-YOKE-L     | = | Yoke for MPALSR-403224L                                                                   |
| MPALSR-TM         | = | Trunnion Mount                                                                            |
| LEDMPALPRO-D180BH | = | Double 180° Bullhorn Mounting Bracket                                                     |
| LEDMPALPRO-WMB    | = | Wall Mount Bracket                                                                        |
| LEDMPALPRO-WMB90  | = | 90° Wall Mount Bracket                                                                    |
| 4SQR-SP-D         | = | 4" Round Pole Tenon                                                                       |
| 5SQR-SP-D         | = | 5" Round Pole Tenon                                                                       |
| 4SQ-SP-D          | = | 4" Square Pole Tenon                                                                      |
| 5SQ-SP-D          | = | 5" Square Pole Tenon                                                                      |
| R60-SP2-90-D      | = | 90° Double Tenon Adapter                                                                  |
| R60-SP2-180-D     | = | 180° Double Tenon Adapter                                                                 |
| R60-SP3-90-D      | = | 90° Triple Tenon Adapter                                                                  |
| R60-SP3-120-D     | = | 120° Triple Tenon Adapter                                                                 |
| R60-SP4-90-D      | = | 90° Quadruple Tenon Adapter                                                               |

## COMPATIBLE DIMMERS AND CONTROLS

| Manufacturer  | Model Number | Dimmer Range | Load Switching Capacity |
|---------------|--------------|--------------|-------------------------|
| Best Lighting | DWS-010V-T   | 10%-100%     | 600W                    |
| Best Lighting | DWS-010V-D   | 10%-100%     | 600W                    |
| Leviton       | IP710-LFZ    | 10%-100%     | 1200W                   |
| Lutron        | DVSTV        | 10%-100%     | 450W                    |

**Note: Not compatible with UNC models.**

## EFFECTIVE PROJECTED AREAS (EPA)

| Model                      | Front (square feet) | Side (square feet) | Face (square feet) |
|----------------------------|---------------------|--------------------|--------------------|
| MPALSR-241812L-3CCT-T3(T5) | 0.149               | 0.287              | 1.2                |
| MPALSR-403224L-3CCT-T3(T5) | 0.21                | 0.346              | 1.98               |

## LUMEN TABLES

| Series                 | Measurements | Low Lumen |        |        | Mid Lumen |        |        | High Lumen |        |        |
|------------------------|--------------|-----------|--------|--------|-----------|--------|--------|------------|--------|--------|
|                        |              | 3000K     | 4000K  | 5000K  | 3000K     | 4000K  | 5000K  | 3000K      | 4000K  | 5000K  |
| MPALSR-241812L-3CCT-T3 | Lumens       | 12,267    | 12,952 | 12,897 | 17,936    | 19,335 | 18,935 | 22,882     | 24,994 | 24,095 |
|                        | Watts        | 71.28     | 69.62  | 71.41  | 111.4     | 107.86 | 111.87 | 151.23     | 145.37 | 151.8  |
|                        | Efficacy     | 172.10    | 186.04 | 180.60 | 161.01    | 179.26 | 169.26 | 151.31     | 171.93 | 158.73 |

| Series                 | Measurements | Low Lumen |        |        | Mid Lumen |        |        | High Lumen |        |        |
|------------------------|--------------|-----------|--------|--------|-----------|--------|--------|------------|--------|--------|
|                        |              | 3000K     | 4000K  | 5000K  | 3000K     | 4000K  | 5000K  | 3000K      | 4000K  | 5000K  |
| MPALSR-241812L-3CCT-T5 | Lumens       | 12,596    | 13,303 | 13,235 | 18,183    | 19,593 | 19,152 | 23,073     | 25,052 | 24,045 |
|                        | Watts        | 73.6      | 71.9   | 73.8   | 113.38    | 109.98 | 113.85 | 152.42     | 146.18 | 152.17 |
|                        | Efficacy     | 171.14    | 185.02 | 179.34 | 160.37    | 178.15 | 168.22 | 151.38     | 171.38 | 158.01 |

| Series                 | Measurements | Low Lumen |        |        | Mid Lumen |        |        | High Lumen |        |        |
|------------------------|--------------|-----------|--------|--------|-----------|--------|--------|------------|--------|--------|
|                        |              | 3000K     | 4000K  | 5000K  | 3000K     | 4000K  | 5000K  | 3000K      | 4000K  | 5000K  |
| MPALSR-403224L-3CCT-T3 | Lumens       | 23,353    | 24,576 | 24,456 | 31,008    | 33,019 | 32,522 | 37,956     | 40,847 | 39,755 |
|                        | Watts        | 132.19    | 129.06 | 132.24 | 183.1     | 177.65 | 183.38 | 234.67     | 226.07 | 234.84 |
|                        | Efficacy     | 176.66    | 190.42 | 184.94 | 169.35    | 185.87 | 177.35 | 161.74     | 180.68 | 169.29 |

| Series                 | Measurements | Low Lumen |        |        | Mid Lumen |        |        | High Lumen |        |        |
|------------------------|--------------|-----------|--------|--------|-----------|--------|--------|------------|--------|--------|
|                        |              | 3000K     | 4000K  | 5000K  | 3000K     | 4000K  | 5000K  | 3000K      | 4000K  | 5000K  |
| MPALSR-403224L-3CCT-T5 | Lumens       | 23,407    | 24,658 | 24,545 | 31,046    | 33,005 | 32,416 | 37,787     | 40,597 | 39,578 |
|                        | Watts        | 132.12    | 129.08 | 132.17 | 182.34    | 176.89 | 182.15 | 231.6      | 223.3  | 232.15 |
|                        | Efficacy     | 177.16    | 191.03 | 185.71 | 170.26    | 186.58 | 177.96 | 163.16     | 181.80 | 170.48 |

| Series                     | Measurements | Low Lumen |        |        | Mid Lumen |        |        | High Lumen |        |        |
|----------------------------|--------------|-----------|--------|--------|-----------|--------|--------|------------|--------|--------|
|                            |              | 3000K     | 4000K  | 5000K  | 3000K     | 4000K  | 5000K  | 3000K      | 4000K  | 5000K  |
| MPALSR-241812L-3CCT-T3-UNC | Lumens       | 12,388    | 13,183 | 13,026 | 17,996    | 19,465 | 18,968 | 22,969     | 25,184 | 24,061 |
|                            | Watts        | 73.06     | 72.16  | 73.53  | 112.42    | 109.27 | 113.48 | 152.57     | 146.78 | 153.62 |
|                            | Efficacy     | 169.56    | 182.69 | 177.15 | 160.08    | 178.14 | 167.15 | 150.55     | 171.58 | 156.63 |

| Series                     | Measurements | Low Lumen |        |        | Mid Lumen |        |        | High Lumen |        |        |
|----------------------------|--------------|-----------|--------|--------|-----------|--------|--------|------------|--------|--------|
|                            |              | 3000K     | 4000K  | 5000K  | 3000K     | 4000K  | 5000K  | 3000K      | 4000K  | 5000K  |
| MPALSR-241812L-3CCT-T5-UNC | Lumens       | 12,372    | 13,227 | 13,126 | 18,223    | 19,786 | 19,363 | 23,393     | 25,747 | 24,823 |
|                            | Watts        | 72.44     | 71.05  | 72.29  | 112.34    | 109.49 | 112.97 | 152.82     | 147    | 154.02 |
|                            | Efficacy     | 170.79    | 186.16 | 181.57 | 162.21    | 180.71 | 171.40 | 153.08     | 175.15 | 161.17 |

| Series                     | Measurements | Low Lumen |        |        | Mid Lumen |        |        | High Lumen |        |        |
|----------------------------|--------------|-----------|--------|--------|-----------|--------|--------|------------|--------|--------|
|                            |              | 3000K     | 4000K  | 5000K  | 3000K     | 4000K  | 5000K  | 3000K      | 4000K  | 5000K  |
| MPALSR-403224L-3CCT-T3-UNC | Lumens       | 23,377    | 24,602 | 24,493 | 31,211    | 33,239 | 32,861 | 38,622     | 41,303 | 40,322 |
|                            | Watts        | 132.3     | 129.2  | 132.6  | 182.9     | 176.7  | 182.9  | 234        | 225    | 233.8  |
|                            | Efficacy     | 176.70    | 190.42 | 184.71 | 170.65    | 188.11 | 179.67 | 165.05     | 183.57 | 172.46 |

| Series                     | Measurements | Low Lumen |        |        | Mid Lumen |        |        | High Lumen |        |        |
|----------------------------|--------------|-----------|--------|--------|-----------|--------|--------|------------|--------|--------|
|                            |              | 3000K     | 4000K  | 5000K  | 3000K     | 4000K  | 5000K  | 3000K      | 4000K  | 5000K  |
| MPALSR-403224L-3CCT-T5-UNC | Lumens       | 23,517    | 24,748 | 24,720 | 31,399    | 33,421 | 33,003 | 38,500     | 41,366 | 40,415 |
|                            | Watts        | 132.94    | 129.62 | 132.82 | 184.75    | 178.22 | 184.43 | 234.99     | 225.63 | 234.93 |
|                            | Efficacy     | 176.90    | 190.93 | 186.12 | 169.95    | 187.53 | 178.95 | 163.84     | 183.34 | 172.03 |

## ELECTRICAL DATA

| Series                 | CCT   | Input Amps (A) |      |      |           |      |      |            |      |      |
|------------------------|-------|----------------|------|------|-----------|------|------|------------|------|------|
|                        |       | Low Lumen      |      |      | Mid Lumen |      |      | High Lumen |      |      |
|                        |       | 120V           | 240V | 277V | 120V      | 240V | 277V | 120V       | 240V | 277V |
| MPALSR-241812L-3CCT-T3 | 3000K | 0.59           | 0.30 | 0.26 | 0.93      | 0.46 | 0.40 | 1.26       | 0.63 | 0.55 |
|                        | 4000K | 0.58           | 0.29 | 0.25 | 0.90      | 0.45 | 0.39 | 1.21       | 0.61 | 0.52 |
|                        | 5000K | 0.60           | 0.30 | 0.26 | 0.93      | 0.47 | 0.40 | 1.27       | 0.63 | 0.55 |

| Series                 | CCT   | Input Amps (A) |      |      |           |      |      |            |      |      |
|------------------------|-------|----------------|------|------|-----------|------|------|------------|------|------|
|                        |       | Low Lumen      |      |      | Mid Lumen |      |      | High Lumen |      |      |
|                        |       | 120V           | 240V | 277V | 120V      | 240V | 277V | 120V       | 240V | 277V |
| MPALSR-241812L-3CCT-T5 | 3000K | 0.61           | 0.31 | 0.27 | 0.94      | 0.47 | 0.41 | 1.27       | 0.64 | 0.55 |
|                        | 4000K | 0.60           | 0.30 | 0.26 | 0.92      | 0.46 | 0.40 | 1.22       | 0.61 | 0.53 |
|                        | 5000K | 0.62           | 0.31 | 0.27 | 0.95      | 0.47 | 0.41 | 1.27       | 0.63 | 0.55 |

| Series                 | CCT   | Input Amps (A) |      |      |           |      |      |            |      |      |
|------------------------|-------|----------------|------|------|-----------|------|------|------------|------|------|
|                        |       | Low Lumen      |      |      | Mid Lumen |      |      | High Lumen |      |      |
|                        |       | 120V           | 240V | 277V | 120V      | 240V | 277V | 120V       | 240V | 277V |
| MPALSR-403224L-3CCT-T3 | 3000K | 1.10           | 0.55 | 0.48 | 1.53      | 0.76 | 0.66 | 1.96       | 0.98 | 0.85 |
|                        | 4000K | 1.08           | 0.54 | 0.47 | 1.48      | 0.74 | 0.64 | 1.88       | 0.94 | 0.82 |
|                        | 5000K | 1.10           | 0.55 | 0.48 | 1.53      | 0.76 | 0.66 | 1.96       | 0.98 | 0.85 |

| Series                 | CCT   | Input Amps (A) |      |      |           |      |      |            |      |      |
|------------------------|-------|----------------|------|------|-----------|------|------|------------|------|------|
|                        |       | Low Lumen      |      |      | Mid Lumen |      |      | High Lumen |      |      |
|                        |       | 120V           | 240V | 277V | 120V      | 240V | 277V | 120V       | 240V | 277V |
| MPALSR-403224L-3CCT-T5 | 3000K | 1.10           | 0.55 | 0.48 | 1.52      | 0.76 | 0.66 | 1.93       | 0.97 | 0.84 |
|                        | 4000K | 1.08           | 0.54 | 0.47 | 1.47      | 0.74 | 0.64 | 1.86       | 0.93 | 0.81 |
|                        | 5000K | 1.10           | 0.55 | 0.48 | 1.52      | 0.76 | 0.66 | 1.93       | 0.97 | 0.84 |

| Series                     | CCT   | Input Amps (A) |      |      |           |      |      |            |      |      |
|----------------------------|-------|----------------|------|------|-----------|------|------|------------|------|------|
|                            |       | Low Lumen      |      |      | Mid Lumen |      |      | High Lumen |      |      |
|                            |       | 277V           | 347V | 480V | 277V      | 347V | 480V | 277V       | 347V | 480V |
| MPALSR-241812L-3CCT-T3-UNC | 3000K | 0.26           | 0.21 | 0.15 | 0.41      | 0.32 | 0.23 | 0.55       | 0.44 | 0.32 |
|                            | 4000K | 0.26           | 0.21 | 0.15 | 0.39      | 0.31 | 0.23 | 0.53       | 0.42 | 0.31 |
|                            | 5000K | 0.27           | 0.21 | 0.15 | 0.41      | 0.33 | 0.24 | 0.55       | 0.44 | 0.32 |

| Series                     | CCT   | Input Amps (A) |      |      |           |      |      |            |      |      |
|----------------------------|-------|----------------|------|------|-----------|------|------|------------|------|------|
|                            |       | Low Lumen      |      |      | Mid Lumen |      |      | High Lumen |      |      |
|                            |       | 277V           | 347V | 480V | 277V      | 347V | 480V | 277V       | 347V | 480V |
| MPALSR-241812L-3CCT-T5-UNC | 3000K | 0.26           | 0.21 | 0.15 | 0.41      | 0.32 | 0.23 | 0.55       | 0.44 | 0.32 |
|                            | 4000K | 0.26           | 0.20 | 0.15 | 0.40      | 0.32 | 0.23 | 0.53       | 0.42 | 0.31 |
|                            | 5000K | 0.26           | 0.21 | 0.15 | 0.41      | 0.33 | 0.24 | 0.56       | 0.44 | 0.32 |

| Series                     | CCT   | Input Amps (A) |      |      |           |      |      |            |      |      |
|----------------------------|-------|----------------|------|------|-----------|------|------|------------|------|------|
|                            |       | Low Lumen      |      |      | Mid Lumen |      |      | High Lumen |      |      |
|                            |       | 277V           | 347V | 480V | 277V      | 347V | 480V | 277V       | 347V | 480V |
| MPALSR-403224L-3CCT-T3-UNC | 3000K | 0.48           | 0.38 | 0.28 | 0.66      | 0.53 | 0.38 | 0.84       | 0.67 | 0.49 |
|                            | 4000K | 0.47           | 0.37 | 0.27 | 0.64      | 0.51 | 0.37 | 0.81       | 0.65 | 0.47 |
|                            | 5000K | 0.48           | 0.38 | 0.28 | 0.66      | 0.53 | 0.38 | 0.84       | 0.67 | 0.49 |

| Series                     | CCT   | Input Amps (A) |      |      |           |      |      |            |      |      |
|----------------------------|-------|----------------|------|------|-----------|------|------|------------|------|------|
|                            |       | Low Lumen      |      |      | Mid Lumen |      |      | High Lumen |      |      |
|                            |       | 277V           | 347V | 480V | 277V      | 347V | 480V | 277V       | 347V | 480V |
| MPALSR-403224L-3CCT-T5-UNC | 3000K | 0.48           | 0.38 | 0.28 | 0.67      | 0.53 | 0.38 | 0.85       | 0.68 | 0.49 |
|                            | 4000K | 0.47           | 0.37 | 0.27 | 0.64      | 0.51 | 0.37 | 0.81       | 0.65 | 0.47 |
|                            | 5000K | 0.48           | 0.38 | 0.28 | 0.67      | 0.53 | 0.38 | 0.85       | 0.68 | 0.49 |

## PHOTOMETRICS

### MPALSR-241812L-3CCT-T3

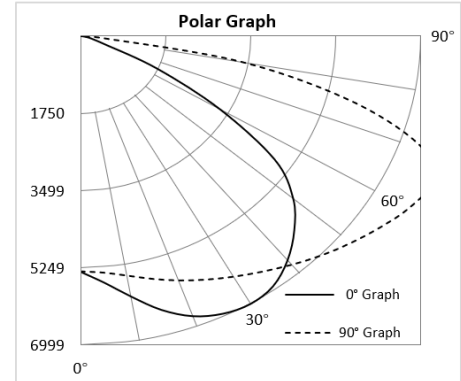
#### Luminaire Data

|                             |                                               |
|-----------------------------|-----------------------------------------------|
| Description                 | Multi Purpose Area Light CCT and Lumen Select |
| Total Lumens                | 24,994                                        |
| Input Wattage               | 145                                           |
| Efficacy (lm/W)             | 172                                           |
| Max. Cd.                    | 8553.5 (67.5H, 67V)                           |
| IES Classification          | Type III                                      |
| Longitudinal Classification | Short                                         |

Photometrics calculated at 4000k and highest lumen setting.

#### Luminaire Classification Systems (LCS)

| LCS Zone     | Lumens        | %Lum          |
|--------------|---------------|---------------|
| FL 0-30      | 2,703         | 10.8%         |
| FM 30-60     | 7,715         | 30.9%         |
| FH 60-80     | 4,041         | 16.2%         |
| FVH 80-90    | 268           | 1.1%          |
| BL 0-30      | 2,162         | 8.6%          |
| BM 30-60     | 5,260         | 21.0%         |
| BH 60-80     | 2,712         | 10.9%         |
| BVH 80-90    | 134           | 0.5%          |
| UL 90-100    | 0             | 0.0%          |
| UH 100-180   | 0             | 0.0%          |
| <b>Total</b> | <b>24,994</b> | <b>100.0%</b> |
| BUG Rating   | B4- U0- G4    |               |



### MPALSR-241812L-3CCT-T5

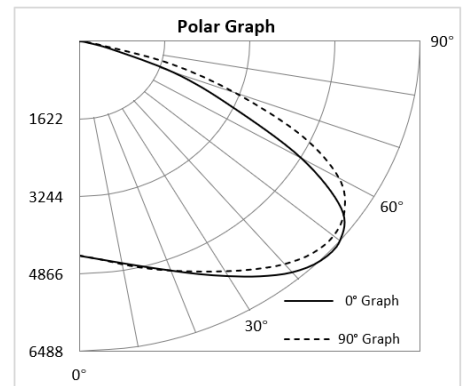
#### Luminaire Data

|                             |                                               |
|-----------------------------|-----------------------------------------------|
| Description                 | Multi Purpose Area Light CCT and Lumen Select |
| Total Lumens                | 25,052                                        |
| Input Wattage               | 146                                           |
| Efficacy (lm/W)             | 171                                           |
| Max. Cd.                    | 6574.2 (22.5H, 47V)                           |
| IES Classification          | Type VS                                       |
| Longitudinal Classification | Very Short                                    |

Photometrics calculated at 4000k and highest lumen setting.

#### Luminaire Classification Systems (LCS)

| LCS Zone     | Lumens        | %Lum          |
|--------------|---------------|---------------|
| FL 0-30      | 2,152         | 8.6%          |
| FM 30-60     | 7,032         | 28.1%         |
| FH 60-80     | 3,419         | 13.6%         |
| FVH 80-90    | 131           | 0.5%          |
| BL 0-30      | 2,010         | 8.0%          |
| BM 30-60     | 6,410         | 25.6%         |
| BH 60-80     | 3,681         | 14.7%         |
| BVH 80-90    | 217           | 0.9%          |
| UL 90-100    | 0             | 0.0%          |
| UH 100-180   | 0             | 0.0%          |
| <b>Total</b> | <b>25,052</b> | <b>100.0%</b> |
| BUG Rating   | B4- U0- G2    |               |



### MPALSR-403224L-3CCT-T3

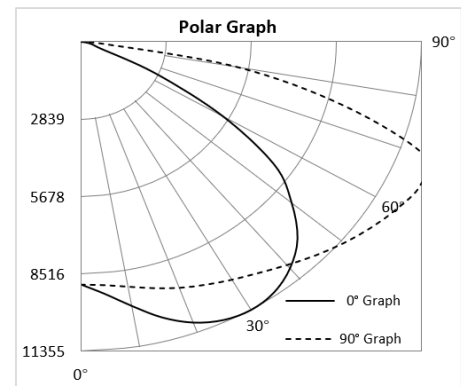
#### Luminaire Data

|                             |                                               |
|-----------------------------|-----------------------------------------------|
| Description                 | Multi Purpose Area Light CCT and Lumen Select |
| Total Lumens                | 40,847                                        |
| Input Wattage               | 226                                           |
| Efficacy (lm/W)             | 181                                           |
| Max. Cd.                    | 14515 (292.5H, 69V)                           |
| IES Classification          | Type III                                      |
| Longitudinal Classification | Medium                                        |

Photometrics calculated at 4000k and highest lumen setting.

#### Luminaire Classification Systems (LCS)

| LCS Zone     | Lumens        | %Lum          |
|--------------|---------------|---------------|
| FL 0-30      | 4,412         | 10.8%         |
| FM 30-60     | 12,495        | 30.6%         |
| FH 60-80     | 6,678         | 16.3%         |
| FVH 80-90    | 448           | 1.1%          |
| BL 0-30      | 3,584         | 8.8%          |
| BM 30-60     | 8,570         | 21.0%         |
| BH 60-80     | 4,425         | 10.8%         |
| BVH 80-90    | 235           | 0.6%          |
| UL 90-100    | 0             | 0.0%          |
| UH 100-180   | 0             | 0.0%          |
| <b>Total</b> | <b>40,847</b> | <b>100.0%</b> |
| BUG Rating   | B5- U0- G4    |               |



## MPALSR-403224L-3CCT-T5

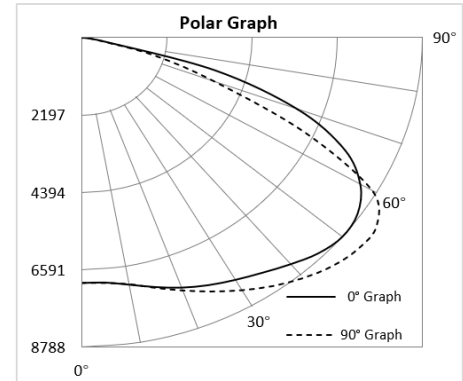
### Luminaire Data

|                             |                                               |
|-----------------------------|-----------------------------------------------|
| Description                 | Multi Purpose Area Light CCT and Lumen Select |
| Total Lumens                | 40,597                                        |
| Input Wattage               | 223                                           |
| Efficacy (lm/W)             | 182                                           |
| Max. Cd.                    | 10151 (202.5H, 52V)                           |
| IES Classification          | Type VS                                       |
| Longitudinal Classification | Very Short                                    |

Photometrics calculated at 4000k and highest lumen setting.

### Luminaire Classification Systems (LCS)

| LCS Zone     | Lumens        | %Lum          |
|--------------|---------------|---------------|
| FL 0-30      | 3,183         | 7.8%          |
| FM 30-60     | 10,099        | 24.9%         |
| FH 60-80     | 6,054         | 14.9%         |
| FVH 80-90    | 325           | 0.8%          |
| BL 0-30      | 3,323         | 8.2%          |
| BM 30-60     | 10,985        | 27.1%         |
| BH 60-80     | 6,304         | 15.5%         |
| BVH 80-90    | 324           | 0.8%          |
| UL 90-100    | 0             | 0.0%          |
| UH 100-180   | 0             | 0.0%          |
| <b>Total</b> | <b>40,597</b> | <b>100.0%</b> |
| BUG Rating   | B5-U0-G3      |               |



## MPALSR-241812L-3CCT-T3-UNC

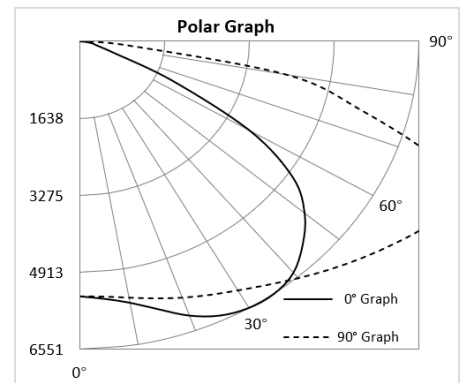
### Luminaire Data

|                             |                                               |
|-----------------------------|-----------------------------------------------|
| Description                 | Multi Purpose Area Light CCT and Lumen Select |
| Total Lumens                | 25,184                                        |
| Input Wattage               | 147                                           |
| Efficacy (lm/W)             | 172                                           |
| Max. Cd.                    | 9159.7 (75H, 66V)                             |
| IES Classification          | Type III                                      |
| Longitudinal Classification | Short                                         |

Photometrics calculated at 4000k and highest lumen setting.

### Luminaire Classification Systems (LCS)

| LCS Zone     | Lumens        | %Lum          |
|--------------|---------------|---------------|
| FL 0-30      | 2,559         | 10.2%         |
| FM 30-60     | 7,667         | 30.4%         |
| FH 60-80     | 4,448         | 17.7%         |
| FVH 80-90    | 290           | 1.2%          |
| BL 0-30      | 2,222         | 8.8%          |
| BM 30-60     | 5,319         | 21.1%         |
| BH 60-80     | 2,506         | 10.0%         |
| BVH 80-90    | 172           | 0.7%          |
| UL 90-100    | 0             | 0.0%          |
| UH 100-180   | 0             | 0.0%          |
| <b>Total</b> | <b>25,184</b> | <b>100.0%</b> |
| BUG Rating   | B4-U0-G4      |               |



## MPALSR-241812L-3CCT-T5-UNC

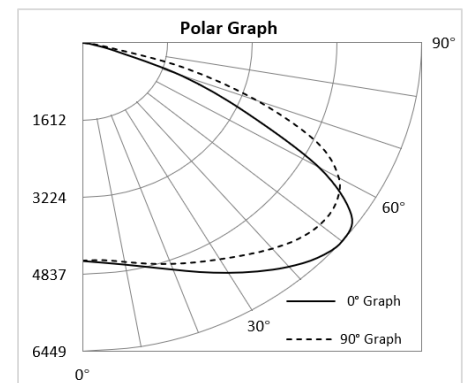
### Luminaire Data

|                             |                                               |
|-----------------------------|-----------------------------------------------|
| Description                 | Multi Purpose Area Light CCT and Lumen Select |
| Total Lumens                | 25,747                                        |
| Input Wattage               | 147                                           |
| Efficacy (lm/W)             | 175                                           |
| Max. Cd.                    | 6665.4 (315H, 52V)                            |
| IES Classification          | Type VS                                       |
| Longitudinal Classification | Very Short                                    |

Photometrics calculated at 4000k and highest lumen setting.

### Luminaire Classification Systems (LCS)

| LCS Zone     | Lumens        | %Lum          |
|--------------|---------------|---------------|
| FL 0-30      | 2,147         | 8.3%          |
| FM 30-60     | 7,080         | 27.5%         |
| FH 60-80     | 3,591         | 13.9%         |
| FVH 80-90    | 144           | 0.6%          |
| BL 0-30      | 2,085         | 8.1%          |
| BM 30-60     | 6,766         | 26.3%         |
| BH 60-80     | 3,727         | 14.5%         |
| BVH 80-90    | 207           | 0.8%          |
| UL 90-100    | 0             | 0.0%          |
| UH 100-180   | 0             | 0.0%          |
| <b>Total</b> | <b>25,747</b> | <b>100.0%</b> |
| BUG Rating   | B4-U0-G2      |               |



## MPALSR-403224L-3CCT-T3-UNC

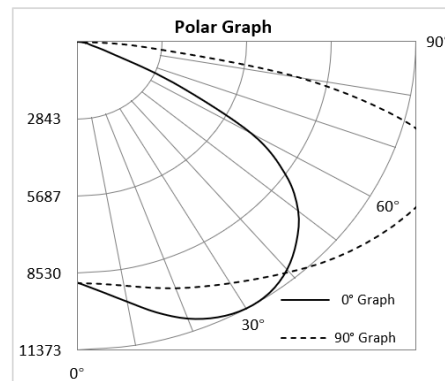
### Luminaire Data

|                             |                                                  |
|-----------------------------|--------------------------------------------------|
| Description                 | Multi Purpose Area Light<br>CCT and Lumen Select |
| Total Lumens                | 41,303                                           |
| Input Wattage               | 225                                              |
| Efficacy (lm/W)             | 184                                              |
| Max. Cd.                    | 14115 (67.5H, 70V)                               |
| IES Classification          | Type III                                         |
| Longitudinal Classification | Medium                                           |

Photometrics calculated at 4000k and  
highest lumen setting.

### Luminaire Classification Systems (LCS)

| LCS Zone          | Lumens   | %Lum   |
|-------------------|----------|--------|
| <b>FL</b> 0-30    | 4,389    | 10.6%  |
| <b>FM</b> 30-60   | 12,701   | 30.8%  |
| <b>FH</b> 60-80   | 7,050    | 17.1%  |
| <b>FVH</b> 80-90  | 573      | 1.4%   |
| <b>BL</b> 0-30    | 3,590    | 8.7%   |
| <b>BM</b> 30-60   | 8,520    | 20.6%  |
| <b>BH</b> 60-80   | 4,220    | 10.2%  |
| <b>BVH</b> 80-90  | 260      | 0.6%   |
| <b>UL</b> 90-100  | 0        | 0.0%   |
| <b>UH</b> 100-180 | 0        | 0.0%   |
| <b>Total</b>      | 41,303   | 100.0% |
| BUG Rating        | B5-U0-G4 |        |



## MPALSR-403224L-3CCT-T5-UNC

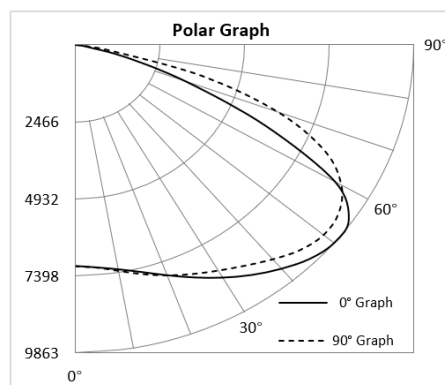
### Luminaire Data

|                             |                                                  |
|-----------------------------|--------------------------------------------------|
| Description                 | Multi Purpose Area Light<br>CCT and Lumen Select |
| Total Lumens                | 41,366                                           |
| Input Wattage               | 226                                              |
| Efficacy (lm/W)             | 183                                              |
| Max. Cd.                    | 10030 (292.5H, 53V)                              |
| IES Classification          | Type VS                                          |
| Longitudinal Classification | Short                                            |

Photometrics calculated at 4000k and  
highest lumen setting.

### Luminaire Classification Systems (LCS)

| LCS Zone          | Lumens   | %Lum   |
|-------------------|----------|--------|
| <b>FL</b> 0-30    | 3,342    | 8.1%   |
| <b>FM</b> 30-60   | 10,948   | 26.5%  |
| <b>FH</b> 60-80   | 6,121    | 14.8%  |
| <b>FVH</b> 80-90  | 280      | 0.7%   |
| <b>BL</b> 0-30    | 3,264    | 7.9%   |
| <b>BM</b> 30-60   | 10,575   | 25.6%  |
| <b>BH</b> 60-80   | 6,449    | 15.6%  |
| <b>BVH</b> 80-90  | 387      | 0.9%   |
| <b>UL</b> 90-100  | 0        | 0.0%   |
| <b>UH</b> 100-180 | 0        | 0.0%   |
| <b>Total</b>      | 41,366   | 100.0% |
| BUG Rating        | B5-U0-G3 |        |



## Multi-Purpose Area Luminaires Lumen & Kelvin & Distribution Field Selectable

### STANDARDS



### HOUSING

- Premium powder-coat, die cast aluminum, dark bronze housing.

### ELECTRICAL

- Operating temperature (ambient): -40°C to 50°C (-40°F to 122°F).
- Universal 120-277V AC voltage (50-60Hz) is standard.
- 0-10VDC dimming drivers are standard.
- Input transient surge protection = 6kV.
- Incoming AC power cord = 6'. Incoming dimming cord = 6'.
- Watertight, compression-type electrical connectors.
- Power factor > 90.
- Total harmonic distortion < 20%.

### OPTICAL SYSTEM

- Polycarbonate lens.
- Field selectable 3000K (warm/neutral white), 4000K (neutral white) and 5000K (cool white) color temperatures\*.
- MPALDSR-242115L-3CCT Tri-lumen selectable provide a range of 15,381 to 26,687 nominal lumens\*.
- MPALDSR-403530L-3CCT Tri-lumen selectable provide a range of 28,342 to 42,653 nominal lumens\*.
- Long-life LEDs provide 167,000 hours of operation with at least 70% of initial lumen output (L70), and 51,000 hours with at least 90% of initial lumen output (L90)\*\*.
- Distribution selectable. Standard optic provides type III / type IV / type V distribution. Easy to configure with switch.
- Sensor-ready receptacle standard.
- Screw in sensor ready. Remote control required for programming (Sensor and remote control sold separately).
- Available factory installed NEMA photocell receptacle for 3-pin NEMA devices.
- LED color maintenance < 0.00495 chromaticity shift ( $\Delta u'v'$ ) over the initial 6,000 hours of operation.
- Color rendering index > 80.

\* Default kelvin temperature 4000K, highest lumen output and Type III distribution.

\*\*L70 & L90 hours are IES TM-21-11 calculated hours.



### MOUNTING

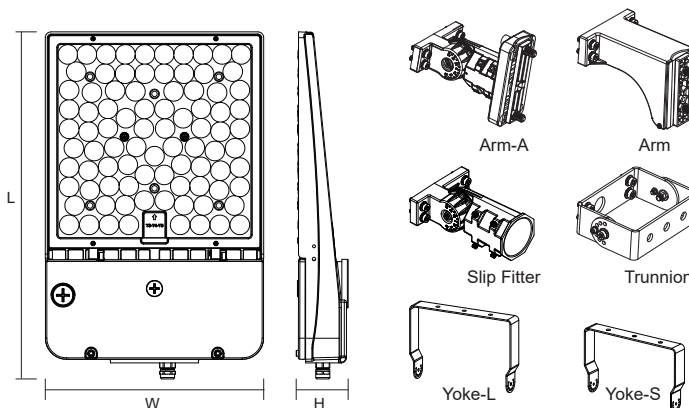
- Optional Arm A Mounting kit (Arm and Slip-fitter combo).
- Optional Arm Mounting kit.
- Optional Slip-fitter Mounting kit.
- Optional Yoke Mounting kit.
- Optional Trunnion Mounting kit.

### CODE COMPLIANCE

- cULus listed for wet locations.
- DLC premium listed.
- Complies with FCC part 15, class A.
- IP65 rated for ingress protection.
- IK08 rated for impact protection.

### WARRANTY

- 5 year warranty on all electronics and housing.



| Model #              | L (in) | W (in) | H (in) | Weight (lbs) |
|----------------------|--------|--------|--------|--------------|
| MPALDSR-242115L-3CCT | 18.52  | 12.22  | 2.8    | 10.48        |
| MPALDSR-403530L-3CCT | 21.26  | 13.68  | 2.83   | 12.69        |

### ORDERING INFORMATION

Example: MPALDSR-242115L-3CCT

| Series  | Nominal Lumen Output (Selectable) |                                 | Kelvin Selectable        | Installed Receptacle         |
|---------|-----------------------------------|---------------------------------|--------------------------|------------------------------|
| MPALDSR | 242115L                           | 24,000 / 21,000 / 15,000 Lumens | 3CCT 3000K/ 4000K/ 5000K | PR NEMA Photocell Receptacle |
|         | 403530L                           | 40,000 / 35,000 / 30,000 Lumens |                          |                              |

\* Mounting hardware sold separately. One must be ordered. Pole tenons and tenon adapters available. See all mounting accessories on page2.

## ACCESSORIES (ORDER SEPARATELY)

**Sensor**

|                                                      |   |                                                                                |
|------------------------------------------------------|---|--------------------------------------------------------------------------------|
| HD09VR-PH5-1                                         | = | Passive infrared sensor - maximum mounting height = 39 FT                      |
| HD09VR-MH5-1                                         | = | Microwave step-dimming sensor - maximum mounting height = 49 FT                |
| HD05R                                                | = | Remote control for HD09VR series Sensors (required to change factory settings) |
| <b>*HD09VR series has 5-dial setting capability.</b> |   |                                                                                |

**Factory settings or Sensor :** detection area = 100%, hold time = 5 sec, stand-by period = 0 sec, stand-by dimming level = 10%, daylight threshold = disabled

**Photocell**

|            |   |                                                                                   |
|------------|---|-----------------------------------------------------------------------------------|
| HD07VR-A-1 | = | 12VDC photocell; RCA jack, factory set to turn on at 10 lux, turns off at 100 lux |
|------------|---|-----------------------------------------------------------------------------------|

**Note:** Screws into Sensor RCA receptacle that comes standard on the fixture.

**NEMA Photocell**

|                |   |                                                                                          |
|----------------|---|------------------------------------------------------------------------------------------|
| JL-205C23-IP65 | = | 120-277V 3-PIN NEMA Photocell; Rated up to 1800W; Turns on at 6 lux, Turns off at 50 lux |
|                | = |                                                                                          |

**Note:** Fixture must be ordered with optional NEMA 3-pin photocell receptacle (-PR).

**Mounting Options**

|                   |   |                                                               |
|-------------------|---|---------------------------------------------------------------|
| MPALDSR-ARM-A     | = | Adjustable Arm Mount (round and square poles)                 |
| MPALDSR-ARM       | = | Arm Mount (2-3/8" pole or pole tenon, round and square poles) |
| MPALDSR-SF        | = | Slip Fitter (2-3/8" pole or pole tenon)                       |
| MPALDSR-YOKE-S    | = | Yoke for MPALDSR-242115L                                      |
| MPALDSR-YOKE-L    | = | Yoke for MPALDSR-403530L                                      |
| MPALDSR-TM        | = | Trunnion Mount                                                |
| LEDMPALPRO-D180BH | = | Double 180° Bullhorn Mounting Bracket                         |
| LEDMPALPRO-WMB    | = | Wall Mount Bracket                                            |
| LEDMPALPRO-WMB90  | = | 90° Wall Mount Bracket                                        |
| 4SQR-SP-D         | = | 4" Round Pole Tenon                                           |
| 5SQR-SP-D         | = | 5" Round Pole Tenon                                           |
| 4SQ-SP-D          | = | 4" Square Pole Tenon                                          |
| 5SQ-SP-D          | = | 5" Square Pole Tenon                                          |
| R60-SP2-90-D      | = | 90° Double Tenon Adapter                                      |
| R60-SP2-180-D     | = | 180° Double Tenon Adapter                                     |
| R60-SP3-90-D      | = | 90° Triple Tenon Adapter                                      |
| R60-SP3-120-D     | = | 120° Triple Tenon Adapter                                     |
| R60-SP4-90-D      | = | 90° Quadruple Tenon Adapter                                   |

## COMPATIBLE DIMMERS AND CONTROLS

| Manufacturer  | Model Number | Dimmer Range | Load Switching Capacity |
|---------------|--------------|--------------|-------------------------|
| Best Lighting | DWS-010V-T   | 10%-100%     | 600W                    |
| Best Lighting | DWS-010V-D   | 10%-100%     | 600W                    |
| Leviton       | IP710-LFZ    | 10%-100%     | 1200W                   |
| Lutron        | DVSTV        | 10%-100%     | 450W                    |

## EFFECTIVE PROJECTED AREAS (EPA'S)

| Series               | ARM MOUNT   |            |            | ARM A MOUNT |            |            | SLIP FITTER MOUNT |            |            | TRUNNION MOUNT |            |            | YOKE MOUNT  |            |            |
|----------------------|-------------|------------|------------|-------------|------------|------------|-------------------|------------|------------|----------------|------------|------------|-------------|------------|------------|
|                      | Front (ft²) | Side (ft²) | Face (ft²) | Front (ft²) | Side (ft²) | Face (ft²) | Front (ft²)       | Side (ft²) | Face (ft²) | Front (ft²)    | Side (ft²) | Face (ft²) | Front (ft²) | Side (ft²) | Face (ft²) |
| MPALDSR-242115L-3CCT | 1.78        | 0.562      | 0.285      | 1.82        | 0.659      | 0.301      | 1.81              | 0.537      | 0.256      | 1.75           | 0.446      | 0.238      | 1.95        | 0.408      | 0.277      |
| MPALDSR-403530L-3CCT | 2.26        | 0.629      | 0.314      | 2.28        | 0.723      | 0.33       | 2.27              | 0.59       | 0.285      | 2.11           | 0.499      | 0.266      | 2.44        | 0.503      | 0.33       |

## LUMEN TABLES

| Series                              | Measurements | Low Lumens |        |        | Mid Lumens |        |        | High Lumens |        |        |
|-------------------------------------|--------------|------------|--------|--------|------------|--------|--------|-------------|--------|--------|
|                                     |              | 3000K      | 4000K  | 5000K  | 3000K      | 4000K  | 5000K  | 3000K       | 4000K  | 5000K  |
| MPALDSR-242115L-3CCT<br>(Set to T3) | Lumens       | 15,381     | 16,398 | 16,338 | 21,113     | 22,868 | 22,615 | 23,993      | 25,866 | 25,124 |
|                                     | Watt         | 109.96     | 107.16 | 109.92 | 161.95     | 156.27 | 162.26 | 190.42      | 182.31 | 189.5  |
|                                     | Efficacy     | 139.88     | 153.02 | 148.64 | 130.37     | 146.34 | 139.38 | 126.00      | 141.88 | 132.58 |

| Series                              | Measurements | Low Lumens |        |        | Mid Lumens |        |        | High Lumens |        |        |
|-------------------------------------|--------------|------------|--------|--------|------------|--------|--------|-------------|--------|--------|
|                                     |              | 3000K      | 4000K  | 5000K  | 3000K      | 4000K  | 5000K  | 3000K       | 4000K  | 5000K  |
| MPALDSR-242115L-3CCT<br>(Set to T4) | Lumens       | 15,976     | 16,767 | 16,793 | 22,052     | 23,466 | 23,264 | 25,016      | 26,686 | 26,378 |
|                                     | Watt         | 107.35     | 105.1  | 107.26 | 156.47     | 152.33 | 156.16 | 182.33      | 176.91 | 182.22 |
|                                     | Efficacy     | 148.82     | 159.53 | 156.56 | 140.93     | 154.05 | 148.98 | 137.20      | 150.85 | 144.76 |

| Series                              | Measurements | Low Lumens |        |        | Mid Lumens |        |        | High Lumens |        |        |
|-------------------------------------|--------------|------------|--------|--------|------------|--------|--------|-------------|--------|--------|
|                                     |              | 3000K      | 4000K  | 5000K  | 3000K      | 4000K  | 5000K  | 3000K       | 4000K  | 5000K  |
| MPALDSR-242115L-3CCT<br>(Set to T5) | Lumens       | 15,597     | 16,503 | 16,379 | 21,249     | 22,836 | 22,202 | 23,726      | 25,760 | 25,028 |
|                                     | Watt         | 110.32     | 107.19 | 109.95 | 162.08     | 156.31 | 161.84 | 189.35      | 181.92 | 189.3  |
|                                     | Efficacy     | 141.38     | 153.96 | 148.97 | 131.10     | 146.09 | 137.18 | 125.30      | 141.60 | 132.21 |

| Series                              | Measurements | Low Lumens |        |        | Mid Lumens |        |        | High Lumens |        |        |
|-------------------------------------|--------------|------------|--------|--------|------------|--------|--------|-------------|--------|--------|
|                                     |              | 3000K      | 4000K  | 5000K  | 3000K      | 4000K  | 5000K  | 3000K       | 4000K  | 5000K  |
| MPALDSR-403530L-3CCT<br>(Set to T3) | Lumens       | 28,358     | 30,523 | 30,063 | 33,217     | 35,499 | 34,522 | 37,668      | 40,931 | 39,524 |
|                                     | Watt         | 208.54     | 202.04 | 208.46 | 252.55     | 242.79 | 251.34 | 306.36      | 293.29 | 305.15 |
|                                     | Efficacy     | 135.98     | 151.07 | 144.21 | 131.53     | 146.21 | 137.35 | 122.95      | 139.56 | 129.52 |

| Series                              | Measurements | Low Lumens |        |        | Mid Lumens |        |        | High Lumens |        |        |
|-------------------------------------|--------------|------------|--------|--------|------------|--------|--------|-------------|--------|--------|
|                                     |              | 3000K      | 4000K  | 5000K  | 3000K      | 4000K  | 5000K  | 3000K       | 4000K  | 5000K  |
| MPALDSR-403530L-3CCT<br>(Set to T4) | Lumens       | 29,808     | 31,479 | 31,197 | 34,596     | 36,832 | 36,243 | 39,855      | 42,651 | 41,598 |
|                                     | Watt         | 202.7      | 197.61 | 202.17 | 243.2      | 236.45 | 242.7  | 294.12      | 284.53 | 293.19 |
|                                     | Efficacy     | 147.05     | 159.30 | 154.31 | 142.25     | 155.77 | 149.33 | 135.51      | 149.90 | 141.88 |

| Series                              | Measurements | Low Lumens |        |        | Mid Lumens |        |        | High Lumens |        |        |
|-------------------------------------|--------------|------------|--------|--------|------------|--------|--------|-------------|--------|--------|
|                                     |              | 3000K      | 4000K  | 5000K  | 3000K      | 4000K  | 5000K  | 3000K       | 4000K  | 5000K  |
| MPALDSR-403530L-3CCT<br>(Set to T5) | Lumens       | 28,557     | 30,596 | 30,044 | 32,892     | 35,509 | 34,603 | 37,520      | 40,893 | 39,484 |
|                                     | Watt         | 208.91     | 202.23 | 208.44 | 251.59     | 242.53 | 250.85 | 305.66      | 293.1  | 304.86 |
|                                     | Efficacy     | 136.70     | 151.29 | 144.14 | 130.74     | 146.41 | 137.94 | 122.75      | 139.52 | 129.52 |

## ELECTRICAL DATA

| Series                              | CCT   | Input Amps (A) |      |      |            |      |      |             |      |      |
|-------------------------------------|-------|----------------|------|------|------------|------|------|-------------|------|------|
|                                     |       | Low Lumens     |      |      | Mid Lumens |      |      | High Lumens |      |      |
|                                     |       | 120V           | 240V | 277V | 120V       | 240V | 277V | 120V        | 240V | 277V |
| MPALDSR-242115L-3CCT<br>(Set to T3) | 3000K | 0.92           | 0.46 | 0.40 | 1.35       | 0.67 | 0.58 | 1.59        | 0.79 | 0.69 |
|                                     | 4000K | 0.89           | 0.45 | 0.39 | 1.30       | 0.65 | 0.56 | 1.52        | 0.76 | 0.66 |
|                                     | 5000K | 0.92           | 0.46 | 0.40 | 1.35       | 0.68 | 0.59 | 1.58        | 0.79 | 0.68 |

| Series                              | CCT   | Input Amps (A) |      |      |            |      |      |             |      |      |
|-------------------------------------|-------|----------------|------|------|------------|------|------|-------------|------|------|
|                                     |       | Low Lumens     |      |      | Mid Lumens |      |      | High Lumens |      |      |
|                                     |       | 120V           | 240V | 277V | 120V       | 240V | 277V | 120V        | 240V | 277V |
| MPALDSR-242115L-3CCT<br>(Set to T4) | 3000K | 0.89           | 0.45 | 0.39 | 1.30       | 0.65 | 0.56 | 1.52        | 0.76 | 0.66 |
|                                     | 4000K | 0.88           | 0.44 | 0.38 | 1.27       | 0.63 | 0.55 | 1.47        | 0.74 | 0.64 |
|                                     | 5000K | 0.89           | 0.45 | 0.39 | 1.30       | 0.65 | 0.56 | 1.52        | 0.76 | 0.66 |

| Series                              | CCT   | Input Amps (A) |      |      |            |      |      |             |      |      |
|-------------------------------------|-------|----------------|------|------|------------|------|------|-------------|------|------|
|                                     |       | Low Lumens     |      |      | Mid Lumens |      |      | High Lumens |      |      |
|                                     |       | 120V           | 240V | 277V | 120V       | 240V | 277V | 120V        | 240V | 277V |
| MPALDSR-242115L-3CCT<br>(Set to T5) | 3000K | 0.92           | 0.46 | 0.40 | 1.35       | 0.68 | 0.59 | 1.58        | 0.79 | 0.68 |
|                                     | 4000K | 0.89           | 0.45 | 0.39 | 1.30       | 0.65 | 0.56 | 1.52        | 0.76 | 0.66 |
|                                     | 5000K | 0.92           | 0.46 | 0.40 | 1.35       | 0.67 | 0.58 | 1.58        | 0.79 | 0.68 |

| Series                              | CCT   | Input Amps (A) |      |      |            |      |      |             |      |      |
|-------------------------------------|-------|----------------|------|------|------------|------|------|-------------|------|------|
|                                     |       | Low Lumens     |      |      | Mid Lumens |      |      | High Lumens |      |      |
|                                     |       | 120V           | 240V | 277V | 120V       | 240V | 277V | 120V        | 240V | 277V |
| MPALDSR-403530L-3CCT<br>(Set to T3) | 3000K | 1.74           | 0.87 | 0.75 | 2.10       | 1.05 | 0.91 | 2.55        | 1.28 | 1.11 |
|                                     | 4000K | 1.68           | 0.84 | 0.73 | 2.02       | 1.01 | 0.88 | 2.44        | 1.22 | 1.06 |
|                                     | 5000K | 1.74           | 0.87 | 0.75 | 2.09       | 1.05 | 0.91 | 2.54        | 1.27 | 1.10 |

| Series                              | CCT   | Input Amps (A) |      |      |            |      |      |             |      |      |
|-------------------------------------|-------|----------------|------|------|------------|------|------|-------------|------|------|
|                                     |       | Low Lumens     |      |      | Mid Lumens |      |      | High Lumens |      |      |
|                                     |       | 120V           | 240V | 277V | 120V       | 240V | 277V | 120V        | 240V | 277V |
| MPALDSR-403530L-3CCT<br>(Set to T4) | 3000K | 1.69           | 0.84 | 0.73 | 2.03       | 1.01 | 0.88 | 2.45        | 1.23 | 1.06 |
|                                     | 4000K | 1.65           | 0.82 | 0.71 | 1.97       | 0.99 | 0.85 | 2.37        | 1.19 | 1.03 |
|                                     | 5000K | 1.68           | 0.84 | 0.73 | 2.02       | 2.02 | 0.88 | 2.44        | 1.22 | 1.06 |

| Series                              | CCT   | Input Amps (A) |      |      |            |      |      |             |      |      |
|-------------------------------------|-------|----------------|------|------|------------|------|------|-------------|------|------|
|                                     |       | Low Lumens     |      |      | Mid Lumens |      |      | High Lumens |      |      |
|                                     |       | 120V           | 240V | 277V | 120V       | 240V | 277V | 120V        | 240V | 277V |
| MPALDSR-403530L-3CCT<br>(Set to T5) | 3000K | 1.74           | 0.87 | 0.75 | 2.10       | 1.05 | 0.91 | 2.55        | 1.27 | 1.10 |
|                                     | 4000K | 1.69           | 0.84 | 0.73 | 2.02       | 1.01 | 0.88 | 2.44        | 1.22 | 1.06 |
|                                     | 5000K | 1.74           | 0.87 | 0.75 | 2.09       | 1.05 | 0.91 | 2.54        | 1.27 | 1.10 |

## PHOTOMETRICS

### MPALDSR-242115L-3CCT ( Set to T3)

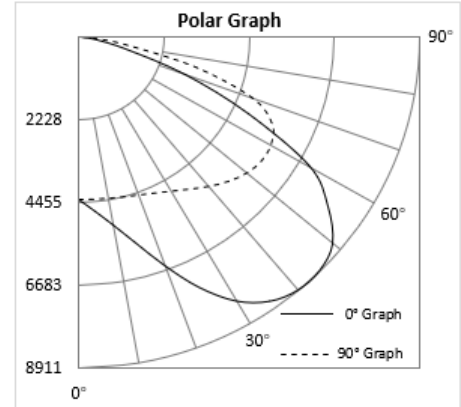
#### Luminaire Data

|                             |                                            |
|-----------------------------|--------------------------------------------|
| Description                 | CCT, Lumen, and Dist Selectable Area Light |
| Total Lumens                | 25,681                                     |
| Input Wattage               | 182                                        |
| Efficacy (lm/W)             | 141                                        |
| Max. Cd.                    | 8929.5 (360H, 42V)                         |
| IES Classification          | Type III                                   |
| Longitudinal Classification | Very Short                                 |

Photometrics calculated at 4000k CCT and highest power setting.

#### Luminaire Classification Systems (LCS)

| LCS Zone     | Lumens        | %Lum          |
|--------------|---------------|---------------|
| FL 0-30      | 2,432         | 9.5%          |
| FM 30-60     | 8,499         | 33.1%         |
| FH 60-80     | 3,938         | 15.3%         |
| FVH 80-90    | 162           | 0.6%          |
| BL 0-30      | 1,646         | 6.4%          |
| BM 30-60     | 4,440         | 17.3%         |
| BH 60-80     | 4,049         | 15.8%         |
| BVH 80-90    | 515           | 2.0%          |
| UL 90-100    | 0             | 0.0%          |
| UH 100-180   | 0             | 0.0%          |
| <b>Total</b> | <b>25,681</b> | <b>100.0%</b> |
| BUG Rating   | B4-U0-G4      |               |



### MPALDSR-242115L-3CCT ( Set to T4)

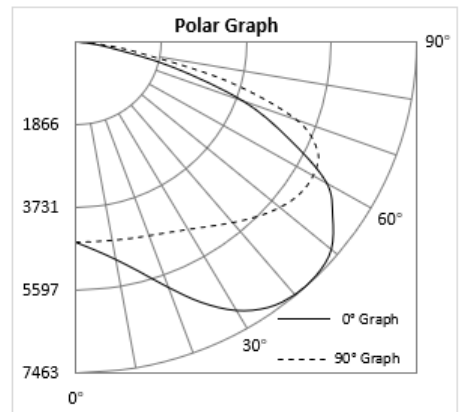
#### Luminaire Data

|                             |                                            |
|-----------------------------|--------------------------------------------|
| Description                 | CCT, Lumen, and Dist Selectable Area Light |
| Total Lumens                | 26,679                                     |
| Input Wattage               | 176                                        |
| Efficacy (lm/W)             | 151                                        |
| Max. Cd.                    | 7473.9 (360H, 42V)                         |
| IES Classification          | Type IV                                    |
| Longitudinal Classification | Very Short                                 |

Photometrics calculated at 4000k CCT and highest power setting.

#### Luminaire Classification Systems (LCS)

| LCS Zone     | Lumens        | %Lum          |
|--------------|---------------|---------------|
| FL 0-30      | 2,291         | 8.6%          |
| FM 30-60     | 7,642         | 28.6%         |
| FH 60-80     | 4,287         | 16.1%         |
| FVH 80-90    | 208           | 0.8%          |
| BL 0-30      | 1,827         | 6.8%          |
| BM 30-60     | 5,474         | 20.5%         |
| BH 60-80     | 4,498         | 16.9%         |
| BVH 80-90    | 452           | 1.7%          |
| UL 90-100    | 0             | 0.0%          |
| UH 100-180   | 0             | 0.0%          |
| <b>Total</b> | <b>26,679</b> | <b>100.0%</b> |
| BUG Rating   | B4-U0-G4      |               |



### MPALDSR-242115L-3CCT ( Set to T5)

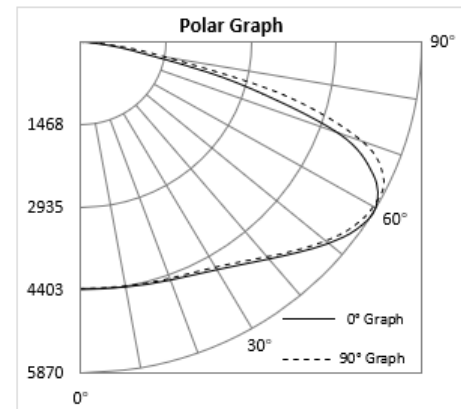
#### Luminaire Data

|                             |                                            |
|-----------------------------|--------------------------------------------|
| Description                 | CCT, Lumen, and Dist Selectable Area Light |
| Total Lumens                | 25,872                                     |
| Input Wattage               | 182                                        |
| Efficacy (lm/W)             | 142                                        |
| Max. Cd.                    | 6052.4 (45H, 62V)                          |
| IES Classification          | Type VS                                    |
| Longitudinal Classification | Short                                      |

Photometrics calculated at 4000k CCT and highest power setting.

#### Luminaire Classification Systems (LCS)

| LCS Zone     | Lumens        | %Lum          |
|--------------|---------------|---------------|
| FL 0-30      | 1,902         | 7.4%          |
| FM 30-60     | 6,142         | 23.7%         |
| FH 60-80     | 4,524         | 17.5%         |
| FVH 80-90    | 238           | 0.9%          |
| BL 0-30      | 1,879         | 7.3%          |
| BM 30-60     | 6,006         | 23.2%         |
| BH 60-80     | 4,843         | 18.7%         |
| BVH 80-90    | 338           | 1.3%          |
| UL 90-100    | 0             | 0.0%          |
| UH 100-180   | 0             | 0.0%          |
| <b>Total</b> | <b>25,872</b> | <b>100.0%</b> |
| BUG Rating   | B4-U0-G3      |               |



## MPALDSR-403530L-3CCT (Set to T3)

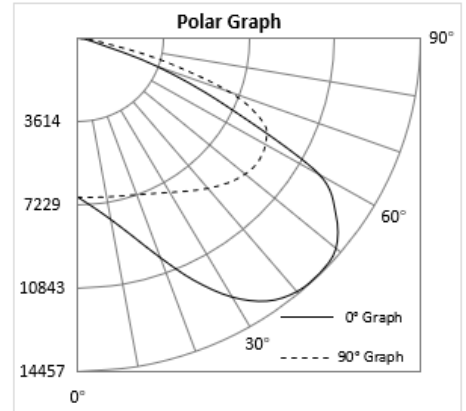
### Luminaire Data

|                             |                                            |
|-----------------------------|--------------------------------------------|
| Description                 | CCT, Lumen, and Dist Selectable Area Light |
| Total Lumens                | 40,722                                     |
| Input Wattage               | 290                                        |
| Efficacy (lm/W)             | 140                                        |
| Max. Cd.                    | 14465 (360H, 44V)                          |
| IES Classification          | Type III                                   |
| Longitudinal Classification | Very Short                                 |

Photometrics calculated at 4000k CCT and highest power setting.

### Luminaire Classification Systems (LCS)

| LCS Zone     | Lumens        | %Lum          |
|--------------|---------------|---------------|
| FL 0-30      | 3,792         | 9.3%          |
| FM 30-60     | 13,708        | 33.7%         |
| FH 60-80     | 6,459         | 15.9%         |
| FVH 80-90    | 247           | 0.6%          |
| BL 0-30      | 2,598         | 6.4%          |
| BM 30-60     | 6,973         | 17.1%         |
| BH 60-80     | 6,272         | 15.4%         |
| BVH 80-90    | 672           | 1.7%          |
| UL 90-100    | 0             | 0.0%          |
| UH 100-180   | 0             | 0.0%          |
| <b>Total</b> | <b>40,722</b> | <b>100.0%</b> |
| BUG Rating   | B5-U0-G5      |               |



## MPALDSR-403530L-3CCT (Set to T4)

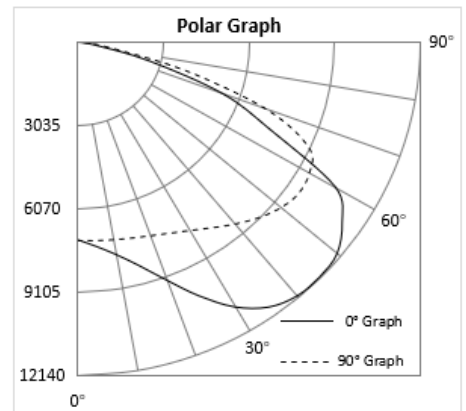
### Luminaire Data

|                             |                                            |
|-----------------------------|--------------------------------------------|
| Description                 | CCT, Lumen, and Dist Selectable Area Light |
| Total Lumens                | 42,479                                     |
| Input Wattage               | 282                                        |
| Efficacy (lm/W)             | 151                                        |
| Max. Cd.                    | 12150 (360H, 43V)                          |
| IES Classification          | Type IV                                    |
| Longitudinal Classification | Very Short                                 |

Photometrics calculated at 4000k CCT and highest power setting.

### Luminaire Classification Systems (LCS)

| LCS Zone     | Lumens        | %Lum          |
|--------------|---------------|---------------|
| FL 0-30      | 3,613         | 8.5%          |
| FM 30-60     | 12,336        | 29.0%         |
| FH 60-80     | 7,002         | 16.5%         |
| FVH 80-90    | 315           | 0.7%          |
| BL 0-30      | 2,909         | 6.8%          |
| BM 30-60     | 8,725         | 20.5%         |
| BH 60-80     | 6,987         | 16.4%         |
| BVH 80-90    | 591           | 1.4%          |
| UL 90-100    | 0             | 0.0%          |
| UH 100-180   | 0             | 0.0%          |
| <b>Total</b> | <b>42,479</b> | <b>100.0%</b> |
| BUG Rating   | B5-U0-G5      |               |



## MPALDSR-403530L-3CCT (Set to T5)

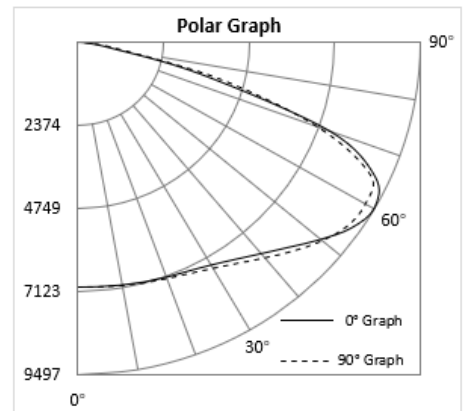
### Luminaire Data

|                             |                                            |
|-----------------------------|--------------------------------------------|
| Description                 | CCT, Lumen, and Dist Selectable Area Light |
| Total Lumens                | 41,022                                     |
| Input Wattage               | 290                                        |
| Efficacy (lm/W)             | 142                                        |
| Max. Cd.                    | 9674.1 (22.5H, 61V)                        |
| IES Classification          | Type VS                                    |
| Longitudinal Classification | Very Short                                 |

Photometrics calculated at 4000k CCT and highest power setting.

### Luminaire Classification Systems (LCS)

| LCS Zone     | Lumens        | %Lum          |
|--------------|---------------|---------------|
| FL 0-30      | 3,027         | 7.4%          |
| FM 30-60     | 9,746         | 23.8%         |
| FH 60-80     | 7,354         | 17.9%         |
| FVH 80-90    | 360           | 0.9%          |
| BL 0-30      | 3,008         | 7.3%          |
| BM 30-60     | 9,607         | 23.4%         |
| BH 60-80     | 7,498         | 18.3%         |
| BVH 80-90    | 421           | 1.0%          |
| UL 90-100    | 0             | 0.0%          |
| UH 100-180   | 0             | 0.0%          |
| <b>Total</b> | <b>41,022</b> | <b>100.0%</b> |
| BUG Rating   | B5-U0-G3      |               |



## Multi-Purpose Area Luminaires Kelvin Field Selectable



### STANDARD



### FEATURES

- Field selectable 3500k (warm/neutral white), 4000k (neutral white) and 5000k (cool white) color temperatures.\*
- Long-life LEDs provide up to 149,000 hours of operation with at least 70% of initial lumen output (L<sub>70</sub>).\*\*
- Available models provide from 2,000 to 7,200 lumens, and from 125 to 156 lumens per watt (LPW).\*
- Standard optic provides an IES roadway type V distribution, or a 7V (vertical) x 7H (horizontal) NEMA floodlight distribution.
- Universal 120-277 AC voltage (50-60Hz) is standard.
- Power factor > 90.
- Total harmonic distortion < 20%.
- Color rendering index > 80.
- Die cast aluminum housing with durable, dark bronze powder coat finish.
- Polycarbonate lens.
- Wireway enclosure is sealed with a water-tight, silicon rubber gasket.
- Easy installation in new construction or retrofit applications.

\* Contact factory for other color temperatures and lumen packages.  
 \*\* L70 hours are IES TM-21-11 calculated hours.

### WARRANTY & LISTINGS

- cULus listed for wet locations in ambient temperatures from -40°C to 50°C (-40°F to 122°F).
- IP65 rated for ingress protection.
- DLC premium approved.
- Lens is IK 10 rated for protection from external impacts.
- Salt fog tested for 1,000 hours (ASTM B117). After salt fog testing, paint rated at 7 per ASTM D1654-05 scratch test.
- Complies with FCC Part 15, class A.
- Complies with EN61000-4-5, surge immunity protection (4kV).
- 5-year warranty of all electronics and housing.

### MOUNTING OPTIONS & ACCESSORIES

- Standard aluminum die-cast knuckle-mount for junction box installation.
- Yoke-mount option provides secure attachment to flat surfaces, 4L & 7L only, sold separately.
- Line voltage ground stake allows for easy installation for landscape illumination, sold separately.

### ORDERING INFORMATION

Example: MPAL-4L-LKFS

| Series | Nominal Lumen Output |             | Color Temperature |       | Mounting Accessories (Order Separately) |                           |
|--------|----------------------|-------------|-------------------|-------|-----------------------------------------|---------------------------|
|        |                      |             |                   |       |                                         |                           |
| MPAL   | 2L                   | 2000 lumens | KFS*              | 3500k | MPAL-KFS-YKL                            | Yoke mount, 4L & 7L       |
|        | 4L                   | 4000 lumens |                   | 4000k | MPOST17                                 | Line voltage ground stake |
|        | 7L                   | 7000 lumens |                   | 5000k |                                         |                           |

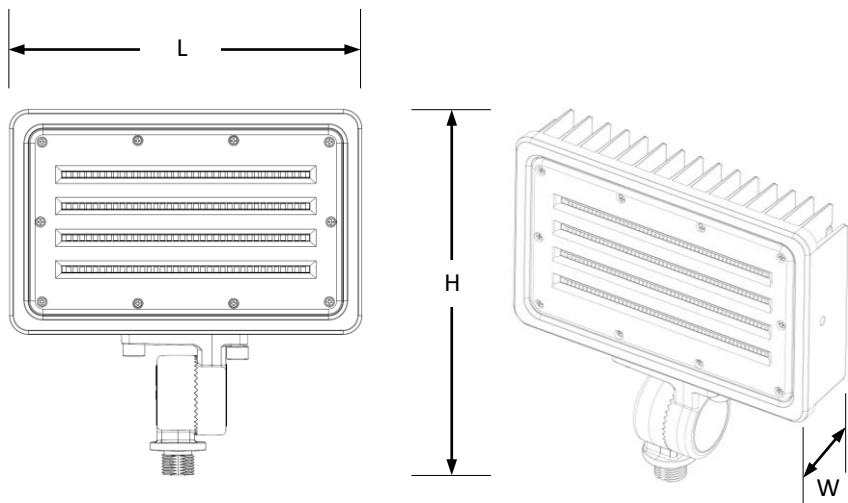
Note: The beam angles are measured as the following:  
 2L - 117° Horizontal x 64° Vertical  
 4L - 110° Horizontal x 114° Vertical  
 7L - 98° Horizontal x 110° Vertical

\* Field selectable kelvin temperatures.

## ELECTRICAL DATA

| Series   | Measurements      | MPAL-2L      |              |              | MPAL-4L      |              |              | MPAL-7L      |              |              |
|----------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|          |                   | 3500K        | 4000K        | 5000K        | 3500K        | 4000K        | 5000K        | 3500K        | 4000K        | 5000K        |
| MPAL-KFS | Lumens            | 2002         | 2179         | 2085         | 4436         | 4696         | 4526         | 6601         | 7170         | 6884         |
|          | Watts             | 16           | 15           | 16           | 31           | 30           | 31           | 52           | 49           | 51           |
|          | Efficacy          | 125          | 145          | 132          | 142          | 156          | 145          | 126          | 147          | 134          |
|          | Input Current (A) | 120V = 0.13A | 120V = 0.13A | 120V = 0.13A | 120V = 0.26A | 120V = 0.25A | 120V = 0.26A | 120V = 0.43A | 120V = 0.41A | 120V = 0.43A |
|          |                   | 240V = 0.07A | 240V = 0.06A | 240V = 0.07A | 240V = 0.13A | 240V = 0.13A | 240V = 0.13A | 240V = 0.22A | 240V = 0.20A | 240V = 0.21A |
|          |                   | 277V = 0.06A | 277V = 0.05A | 277V = 0.06A | 277V = 0.11A | 277V = 0.11A | 277V = 0.11A | 277V = 0.19A | 277V = 0.18A | 277V = 0.18A |

## DIMENSIONS



## EFFECTIVE PROJECTED AREAS (EPA's)

### 2L

Front = 0.17 s.f.

Side = 0.07 s.f.

Face = 0.05 s.f.

### 4L & 7L

Front = 0.54 s.f. (knuckle) / 0.44 s.f. (yoke)

Side = 0.12 s.f. (knuckle) / 0.09 s.f. (yoke)

Face = 0.11 s.f. (knuckle) / 0.12 s.f. (yoke)

| Model | Length (L) | Width (W) | Depth (H) | Weight |
|-------|------------|-----------|-----------|--------|
| 2L    | 4.3"       | 1.7"      | 5.8"      | 3 lbs. |
| 4L    | 8.7"       | 1.9"      | 9"        | 8 lbs. |
| 7L    | 8.7"       | 1.9"      | 9"        | 8 lbs. |

## PHOTOMETRIC DATA

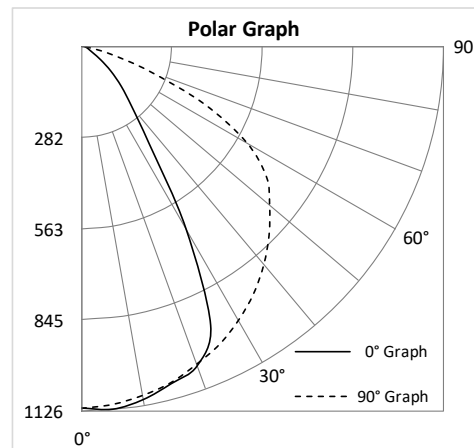
### MPAL-2L-KFS

#### Luminaire Data

|                             |                                      |
|-----------------------------|--------------------------------------|
| Description                 | Multi Purpose Area Light<br>2L - KFS |
| Total Lumens                | 2,002                                |
| Input Wattage               | 16                                   |
| Efficacy (lm/W)             | 126                                  |
| Max. Cd.                    | 1131.47 (337.5H, 6V)                 |
| IES Classification          | Type I                               |
| Longitudinal Classification | Very Short                           |

#### Luminaire Classification Systems (LCS)

| LCS Zone   |         | Lumens   | %Lum   |
|------------|---------|----------|--------|
| FL         | 0-30    | 438      | 21.9%  |
| FM         | 30-60   | 488      | 24.4%  |
| FH         | 60-80   | 74       | 3.7%   |
| FVH        | 80-90   | 3        | 0.2%   |
| BL         | 0-30    | 434      | 21.7%  |
| BM         | 30-60   | 491      | 24.5%  |
| BH         | 60-80   | 71       | 3.6%   |
| BVH        | 80-90   | 3        | 0.1%   |
| UL         | 90-100  | 0        | 0.0%   |
| UH         | 100-180 | 0        | 0.0%   |
| Total      |         | 2,002    | 100.0% |
| BUG Rating |         | B1-U0-G0 |        |



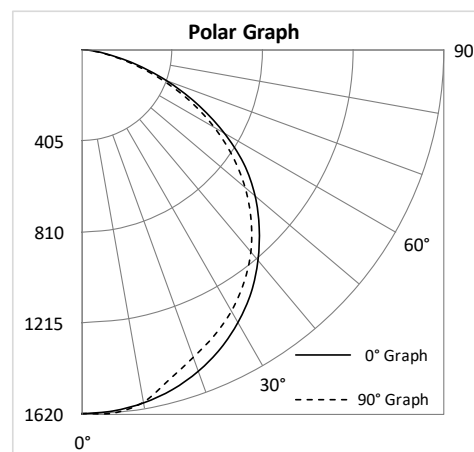
### MPAL-4L-KFS

#### Luminaire Data

|                             |                                      |
|-----------------------------|--------------------------------------|
| Description                 | Multi Purpose Area Light<br>4L - KFS |
| Total Lumens                | 4,436                                |
| Input Wattage               | 31                                   |
| Efficacy (lm/W)             | 142                                  |
| Max. Cd.                    | 1625.57 (112.5H, 5V)                 |
| IES Classification          | Type VS                              |
| Longitudinal Classification | Very Short                           |

#### Luminaire Classification Systems (LCS)

| LCS Zone   |         | Lumens   | %Lum  |
|------------|---------|----------|-------|
| FL         | 0-30    | 625      | 14.1% |
| FM         | 30-60   | 1,190    | 26.8% |
| FH         | 60-80   | 372      | 8.4%  |
| FVH        | 80-90   | 16       | 0.4%  |
| BL         | 0-30    | 629      | 14.2% |
| BM         | 30-60   | 1,205    | 27.2% |
| BH         | 60-80   | 383      | 8.6%  |
| BVH        | 80-90   | 16       | 0.4%  |
| UL         | 90-100  | 0        | 0.0%  |
| UH         | 100-180 | 0        | 0.0%  |
| Total      |         | 4,436    | 99.9% |
| BUG Rating |         | B2-U0-G1 |       |



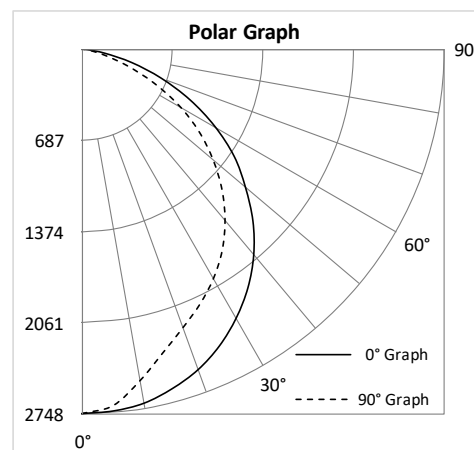
### MPAL-7L-KFS

#### Luminaire Data

|                             |                                      |
|-----------------------------|--------------------------------------|
| Description                 | Multi Purpose Area Light<br>7L - KFS |
| Total Lumens                | 6,601                                |
| Input Wattage               | 52                                   |
| Efficacy (lm/W)             | 126                                  |
| Max. Cd.                    | 2750.84 (157.5H, 1V)                 |
| IES Classification          | Type VS                              |
| Longitudinal Classification | Very Short                           |

#### Luminaire Classification Systems (LCS)

| LCS Zone   |         | Lumens   | %Lum   |
|------------|---------|----------|--------|
| FL         | 0-30    | 989      | 15.0%  |
| FM         | 30-60   | 1,783    | 27.0%  |
| FH         | 60-80   | 519      | 7.9%   |
| FVH        | 80-90   | 21       | 0.3%   |
| BL         | 0-30    | 987      | 15.0%  |
| BM         | 30-60   | 1,774    | 26.9%  |
| BH         | 60-80   | 510      | 7.7%   |
| BVH        | 80-90   | 19       | 0.3%   |
| UL         | 90-100  | 0        | 0.0%   |
| UH         | 100-180 | 0        | 0.0%   |
| Total      |         | 6,601    | 100.0% |
| BUG Rating |         | B2-U0-G1 |        |



## LED Dusk-to-Dawn

## STANDARD



## FEATURES

- Available in 5000k (cool white) color temperature.\*
- Long-life LEDs provide 163,000 hours of operation with at least 70% of initial lumen output ( $L_{70}$ ), and 50,000 hours with at least 90% of initial lumen output ( $L_{90}$ ).\*\*
- LED chromaticity based on  $\leq 5$ -step ANSI quadrangles.
- LED color maintenance  $\leq 0.003$  chromaticity shift ( $\Delta u'v'$ ) over the initial 6,000 hours of operation.
- Provides 4,900 nominal lumens and draws 37 nominal watts (133 lumens per watt).\*
- Universal 120-277 AC voltage (50-60Hz).
- Power factor  $\geq 0.90$ .
- Total harmonic distortion  $\leq 20\%$ .
- Color rendering index ( $R_a$ )  $\geq 80$ .
- NEMA photocell receptacle & photocell are standard.
- Die cast aluminum housing with gray powder coat finish.
- Polycarbonate lens.
- Easy installation in new construction or retrofit.

## WARRANTY &amp; LISTINGS

- cULus listed for wet locations in ambient temperatures from  $-40^{\circ}\text{C}$  to  $45^{\circ}\text{C}$  ( $-40^{\circ}\text{F}$  to  $113^{\circ}\text{F}$ ).
- Complies with IEC61000-4-5, input transient surge protection (4kV).
- Complies with FCC Part 15, class A.
- IP65 rated for ingress protection.
- 5-year warranty of all electronics and housing.

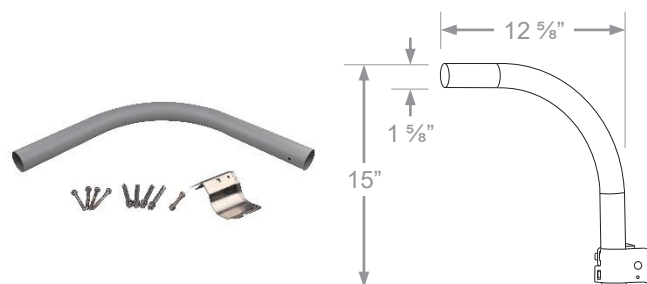
\* Contact factory for other color temperatures and lumen packages.

\*\*  $L_{70}$  hours are IES TM-21-11 calculated hours.

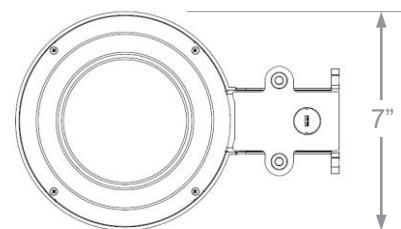
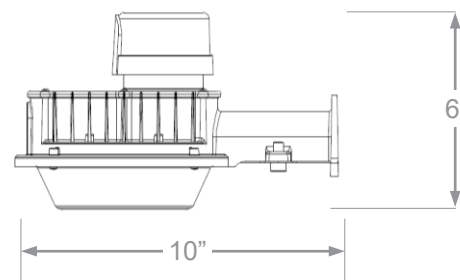


## MOUNTING ARM (OPTIONAL)

- Optional powder-coated steel mounting arm attaches to poles or walls. Mounting bracket included.



## DIMENSIONS



Weight: 3 lbs.

## ORDERING INFORMATION

Example: DDAL-5L-5K-PC

| Series | Nominal Lumen Output |       | Color Temperature |       | Photocell | Accessories        |                           |
|--------|----------------------|-------|-------------------|-------|-----------|--------------------|---------------------------|
|        |                      |       |                   |       |           | (Order Separately) |                           |
| DDAL   | 5L                   | 5,000 | 5K                | 5000k | PC        | LED-DDALSN-ARM     | Mounting arm with bracket |

## Bullet Flood Light High Lumen

### STANDARDS



### HOUSING

- Premium powder-coat, aluminum, bronze housing.

### ELECTRICAL

- Operating temperature (ambient): -40°C to 40°C (-40°F to 104°F).
- Universal 120-277V AC voltage (50-60Hz) is standard.
- 0-10VDC dimming drivers is standard.
- Input transient surge protection = 4kV.
- Power factor > 0.90.
- Total Harmonic distortion < 20%.

### OPTICAL SYSTEM

- Glass lens.
- 5000K (cool white) color temperatures.
- 9,000 nominal lumens, 82W.
- Long-life LEDs provide 83,000 hours of operation with at least 70% of initial lumen output (L70), and 22,000 hours with at least 90% of initial lumen output (L90)\*\*.
- Beam angle 2H2V distribution.
- LED color maintenance < 0.0007 chromaticity shift ( $\Delta u'v'$ ) over the initial 6,000 hours of operation.
- Color rendering index > 70.

\*L70 & L90 hours are IES TM-21-11 calculated hours.

### ORDERING INFORMATION

Example: BFHL-9L-5K

| Series | Nominal Lumen Output |          | Kelvin |
|--------|----------------------|----------|--------|
| BFHL   | 9L                   | 9,000 lm | 5000K  |



### MOUNTING

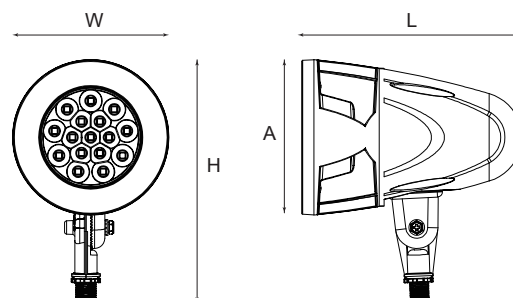
- Knuckle mount kit is standard (Fit 1/2" NPT).
- Optional Line Voltage Ground Stake (sold separately).
- Easy installation in new construction or retrofit.

### CODE COMPLIANCE

- cULus listed for wet locations.
- Complies with FCC part 15, class A.
- IP66 rated for ingress protection.

### WARRANTY

- 5 year warranty on all electronics and housing.



| Model #    | L (in) | W (in) | A (in) | H (in) | Weight (lbs) |
|------------|--------|--------|--------|--------|--------------|
| BFHL-9L-5K | 8.5    | 6      | 6      | 9.3    | 5.1          |

"A" = Fixture head with glare-hood;  
"H" = Maximum overall height; +/- adjustment 180°.

## ACCESSORIES (ORDER SEPARATELY)

**Mounting**

|         |   |                                                                                                                |
|---------|---|----------------------------------------------------------------------------------------------------------------|
| CM-R    | = | Round canopy mounting plate,<br>suitable to mount 1/2" swivel arm and use with standard 4" round junction box. |
| MPOST17 | = | Line Voltage Ground Stake.                                                                                     |

## LUMEN TABLES

| Model      | Measurements | Lumens |
|------------|--------------|--------|
|            |              | 5000K  |
| BFHL-9L-5K | Lumens       | 9,096  |
|            | Watt         | 82.28  |
|            | Efficacy     | 110.55 |

## ELECTRICAL DATA

| Model      | CCT   | Input Amps (A) |      |      |
|------------|-------|----------------|------|------|
|            |       | 120V           | 240V | 277V |
| BFHL-9L-5K | 5000K | 0.69           | 0.34 | 0.30 |

## PHOTOMETRICS

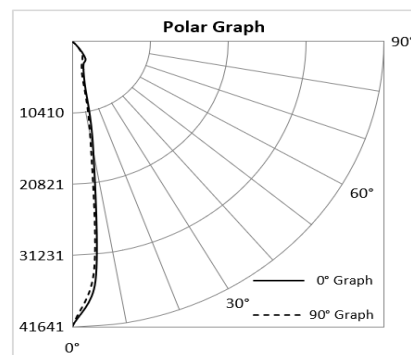
## BFHL-9L-5K

**Luminaire Data**

|                             |                               |
|-----------------------------|-------------------------------|
| Description                 | Flood Light<br>9,000lm, 5000k |
| Total Lumens                | 9,096                         |
| Input Wattage               | 82                            |
| Efficacy (lm/W)             | 111                           |
| Max. Cd.                    | 42129 (337.5H, 1V)            |
| IES Classification          | Type I                        |
| Longitudinal Classification | Very Short                    |

**Luminaire Classification Systems (LCS)**

| LCS Zone     |         | Lumens       | %Lum          |
|--------------|---------|--------------|---------------|
| FL           | 0-30    | 3,161        | 34.7%         |
| FM           | 30-60   | 1,329        | 14.6%         |
| FH           | 60-80   | 22           | 0.2%          |
| FVH          | 80-90   | 2            | 0.0%          |
| BL           | 0-30    | 3,226        | 35.5%         |
| BM           | 30-60   | 1,334        | 14.7%         |
| BH           | 60-80   | 21           | 0.2%          |
| BVH          | 80-90   | 2            | 0.0%          |
| UL           | 90-100  | 0            | 0.0%          |
| UH           | 100-180 | 0            | 0.0%          |
| <b>Total</b> |         | <b>9,096</b> | <b>100.0%</b> |
| BUG Rating   |         | B4-U0-G0     |               |



## COMPATIBLE DIMMERS AND CONTROLS

| Manufacturer  | Model Number | Dimmer Range | Load Switching Capacity |
|---------------|--------------|--------------|-------------------------|
| Best Lighting | DWS-010V-T   | 10%-100%     | 600W                    |
| Best Lighting | DWS-010V-D   | 10%-100%     | 600W                    |
| Leviton       | IP710-LFZ    | 10%-100%     | 1200W                   |
| Lutron        | DVSTV        | 10%-100%     | 450W                    |

## Bullet Flood Light Lumen & Kelvin Selectable

### STANDARDS



### HOUSING

- Premium powder-coat, aluminum, dark bronze housing.

### ELECTRICAL

- Operating temperature (ambient): -40°C to 45°C (-40°F to 113°F).
- Universal 120-277V AC voltage (50-60Hz) is standard.
- Built in photocell.
- 0-10VDC dimming drivers is standard.
- Input transient surge protection = 4kV.
- Power factor > 0.90.
- Total Harmonic distortion < 20%.

### OPTICAL SYSTEM

- Polycarbonate frosted lens.
- Field selectable 3000k(warm white), 4000k (neutral white) and 5000k (cool white) color temperatures\*.
- Tri-lumen selectable delivers 3,000 to 4,500 nominal lumens\*.
- Long-life LEDs provide 151,000 hours of operation with at least 70% of initial lumen output (L70), and 45,000 hours with at least 90% of initial lumen output (L90)\*\*.
- Beam angle 2H2V distribution.
- LED color maintenance < -0.00156 chromaticity shift ( $\Delta u'v'$ ) over the initial 6,000 hours of operation.
- Color rendering index > 70.

\* Default 4000k color temperature and highest lumen output.

\*\*L70 & L90 hours are IES TM-21-11 calculated hours.



### MOUNTING

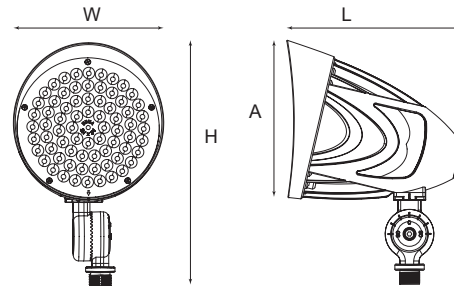
- Knuckle mount kit is standard (Fit 1/2" NPT).
- Optional Line Voltage Ground Stake
- Optional round canopy mount for surface mount. compatible with 4-inch standard junction box.
- Easy installation in new construction or retrofit.

### CODE COMPLIANCE

- cULus listed for wet locations.
- DLC premium listed.
- Complies with FCC part 15, class A.
- IP65 rated for ingress protection.

### WARRANTY

- 5 year warranty on all electronics and housing.



| Model #         | L (in) | W (in) | A (in) | H (in) | Weight (lbs) |
|-----------------|--------|--------|--------|--------|--------------|
| BF-453730L-3CCT | 6.42   | 5.51   | 5.79   | 8.9    | 2.41         |

### ORDERING INFORMATION

Example: BF-453730L-3CCT

| Series | Nominal Lumen Output (Selectable) |                          | Kelvin Selectable |
|--------|-----------------------------------|--------------------------|-------------------|
| BF     | 453730L                           | 4,500 / 3,700 / 3,000 lm | 3CCT 3K / 4K / 5K |

## ACCESSORIES (ORDER SEPARATELY)

**Mounting**

CM-R = Round canopy mounting plate, suitable to mount 1/2" swivel arm and use with standard 4" round junction box.

MPOST17 = Line Voltage Ground Stake.

## LUMEN TABLES

| Series          | Measurements | Low Lumens |       |       | Mid Lumens |       |       | High Lumens |       |       |
|-----------------|--------------|------------|-------|-------|------------|-------|-------|-------------|-------|-------|
|                 |              | 3000K      | 4000K | 5000K | 3000K      | 4000K | 5000K | 3000K       | 4000K | 5000K |
| BF-453730L-3CCT | Lumens       | 2,999      | 3,187 | 3,120 | 3,707      | 4,008 | 4,077 | 4,564       | 5,064 | 4,766 |
|                 | Watt         | 20.39      | 19.76 | 20.39 | 26.46      | 25.42 | 26.52 | 35.1        | 33.28 | 34.86 |
|                 | Efficac      | 147        | 161   | 153   | 140        | 158   | 154   | 130         | 152   | 137   |

## ELECTRICAL DATA

| Series          | CCT   | Input Amps (A) |      |      |            |      |      |             |      |      |
|-----------------|-------|----------------|------|------|------------|------|------|-------------|------|------|
|                 |       | Low Lumens     |      |      | Mid Lumens |      |      | High Lumens |      |      |
|                 |       | 120V           | 240V | 277V | 120V       | 240V | 277V | 120V        | 240V | 277V |
| BF-453730L-3CCT | 3000k | 0.17           | 0.08 | 0.07 | 0.22       | 0.11 | 0.10 | 0.29        | 0.15 | 0.13 |
|                 | 4000k | 0.16           | 0.08 | 0.07 | 0.21       | 0.11 | 0.09 | 0.28        | 0.14 | 0.12 |
|                 | 5000k | 0.17           | 0.08 | 0.07 | 0.22       | 0.11 | 0.10 | 0.29        | 0.15 | 0.13 |

## PHOTOMETRICS

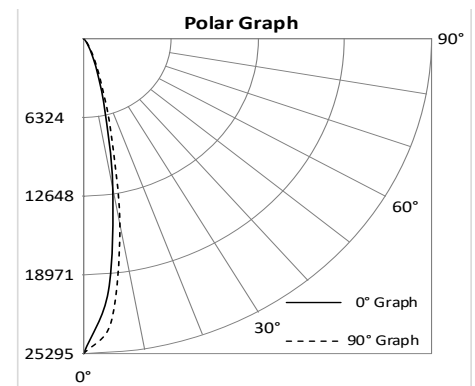
## BF-453730L-3CCT

**Luminaire Data**

|                             |                                        |
|-----------------------------|----------------------------------------|
| Description                 | Flood Light<br>Lumen/Kelvin Selectable |
| Total Lumens                | 4,436                                  |
| Input Wattage               | 33                                     |
| Efficacy (lm/W)             | 133                                    |
| Max. Cd.                    | 25598 (112.5H, 1V)                     |
| IES Classification          | N.A.                                   |
| Longitudinal Classification | N.A.                                   |

**Luminaire Classification Systems (LCS)**

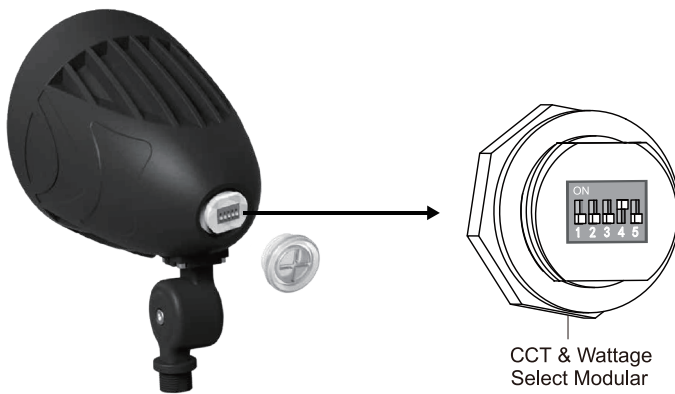
| LCS Zone   |         | Lumens   | %Lum  |
|------------|---------|----------|-------|
| FL         | 0-30    | 1,870    | 36.9% |
| FM         | 30-60   | 210      | 4.1%  |
| FH         | 60-80   | 36       | 0.7%  |
| FVH        | 80-90   | 1        | 0.0%  |
| BL         | 0-30    | 1,984    | 39.2% |
| BM         | 30-60   | 233      | 4.6%  |
| BH         | 60-80   | 85       | 1.7%  |
| BVH        | 80-90   | 8        | 0.2%  |
| UL         | 90-100  | 0        | 0.0%  |
| UH         | 100-180 | 10       | 0.2%  |
| Total      |         | 4,436    | 87.6% |
| BUG Rating |         | B3-U2-G0 |       |



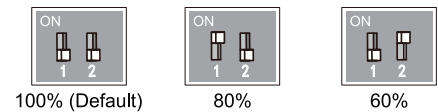
## COMPATIBLE DIMMERS AND CONTROLS

| Manufacturer  | Model Number | Dimmer Range | Load Switching Capacity |
|---------------|--------------|--------------|-------------------------|
| Best Lighting | DWS-010V-T   | 10%-100%     | 600W                    |
| Best Lighting | DWS-010V-D   | 10%-100%     | 600W                    |
| Leviton       | IP710-LFZ    | 10%-100%     | 1200W                   |
| Lutron        | DVSTV        | 10%-100%     | 450W                    |

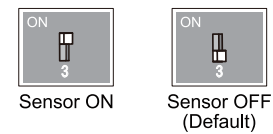
## CCT & WATTAGE SETTING



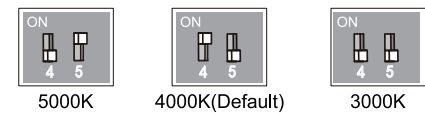
### Wattage Select



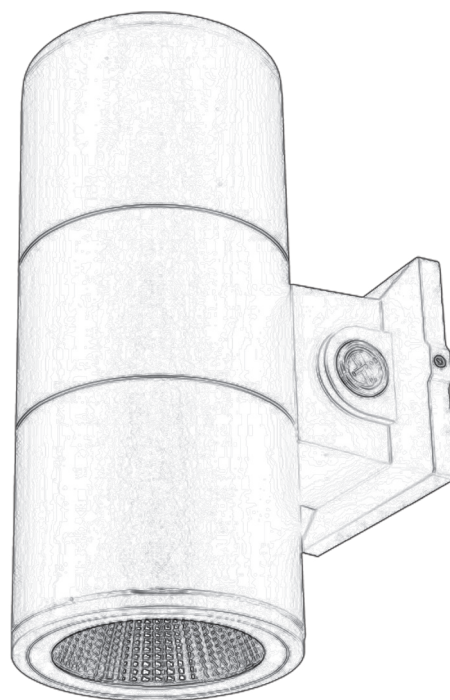
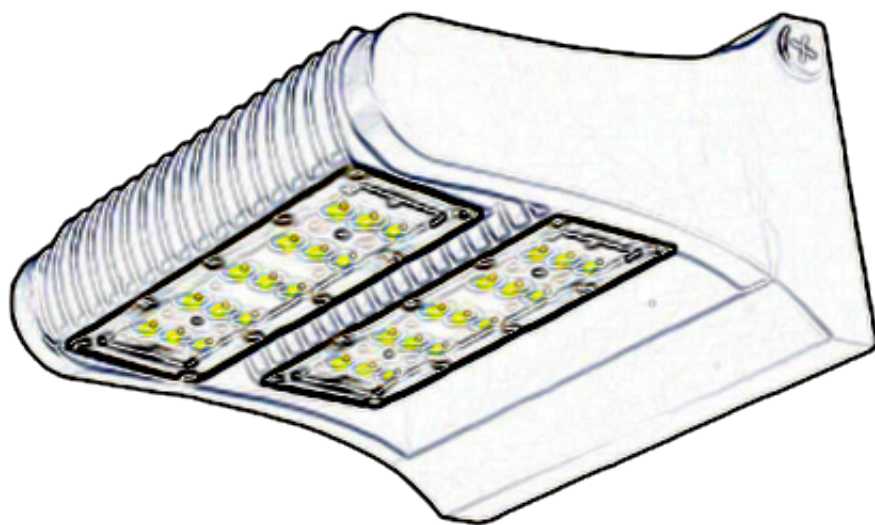
### Photocell



### CCT Select

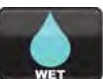


# Wall Pack & Cylinder

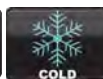


## Decorative Outdoor LED AC/Emergency Unit

### STANDARD



### OPTIONAL



### ILLUMINATION

- Long lasting, efficient, ultra bright white LEDs.
- 12.0 watts (2 LEDs x 6.0 watt) per unit.
- Mirror-bright reflector and prismatic polycarbonate refractor.
- Can be used as a Normally-ON or Normally-OFF luminaire as well as on a switched circuit.
- Output of 1286 lumens in AC mode and 350 lumens in DC mode.

### ELECTRICAL

- Universal 120-277 voltage.
- Charge rate/power "ON" LED indicator light and push-to-test switch for mandated code compliance testing.
- 4.8V long life, maintenance-free, rechargeable NiCd battery.
- Internal solid-state transfer switch automatically connects the internal battery to LED board for minimum 90-minute emergency illumination.
- Fully automatic solid-state, two rate charger initiates battery charging to recharge a discharged battery in 24 hours.
- Self-diagnostic feature performs monthly, bi-annual, and annual tests to ensure reliable operation and meets electrical and life safety codes.
- Photocell control sensor included as standard for use as dusk-to-dawn luminaire.
- Field-selectable wiring allows for AC operation of unit to be controlled using a wall-switch, photocell or other switching mechanism.

### MOUNTING

- Universal knockout pattern on back plate for wall mount.
- Threaded opening at the top of the enclosure for conduit mount.

### HOUSING

- Decorative, low profile, architectural design.
- Die-cast aluminum housing
- Durable powder-coated finishes in white, black, nickel and dark bronze finish.
- Sealed and gasketed.

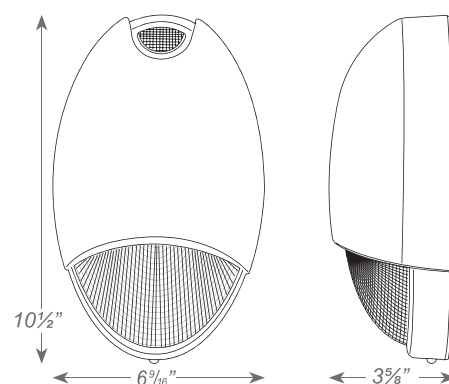
### OPTIONS

- CW: Optional internal heater for extreme cold temperature applications (-30°C – 50°C).
- CEC: Certified to CEC under Title 20 Regulations.

### WARRANTY / LISTING

- Five year warranty on all electronics and housing. Battery prorated for five years.
- Meets UL924, NFPA 101 Life Safety Code, NEC, OSHA, Local and State Codes.
- UL Listed for wet locations (0°C – 50°C).

### DIMENSIONS



### ORDERING INFORMATION

Sample Part Number: DBEL-ACEM-HL-BR-SDT-PC

| MODEL        | HOUSING COLOR |             | STANDARD FEATURE |                  | STANDARD FEATURE |                  | OPTIONS   |                                       |
|--------------|---------------|-------------|------------------|------------------|------------------|------------------|-----------|---------------------------------------|
| DBEL-ACEM-HL | W             | White       | SDT              | Self-Diagnostics | PC               | Photocell Sensor | CW<br>CEC | Cold Weather<br>Certified to TITLE 20 |
|              | B             | Black       |                  |                  |                  |                  |           |                                       |
|              | BR            | Dark Bronze |                  |                  |                  |                  |           |                                       |
|              | N             | Nickel      |                  |                  |                  |                  |           |                                       |

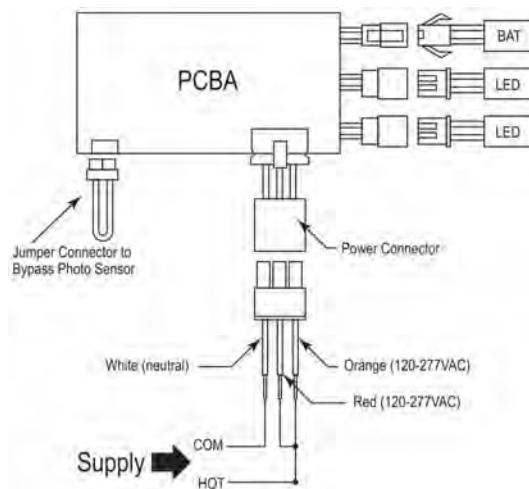
## ELECTRICAL INFORMATION

| CATALOG NUMBER      | INPUT WATTS (W) | INPUT AMPS (A) |
|---------------------|-----------------|----------------|
| DBEL-ACEM-HL SDT    | 2.5             | 0.04           |
| DBEL-ACEM-HL SDT CW | 2.8             | 0.026          |

## WIRING DIAGRAM

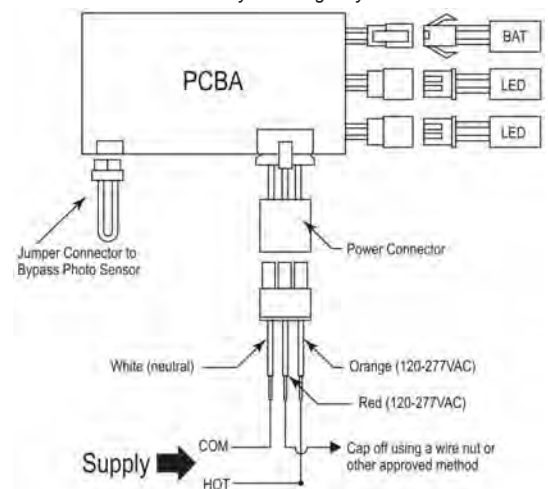
### NORMALLY ON

*Unit ON at all times.*



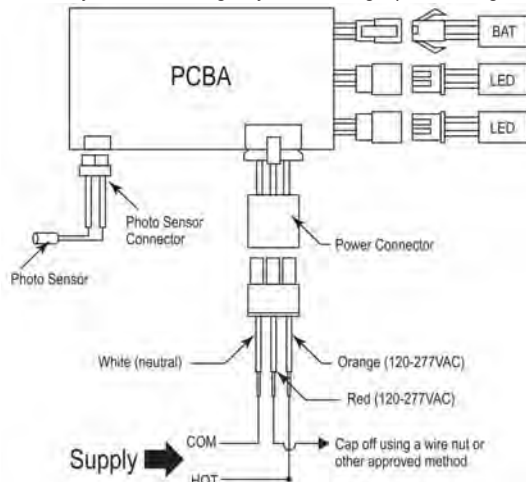
### NORMALLY OFF

*Unit ON only in emergency mode.*



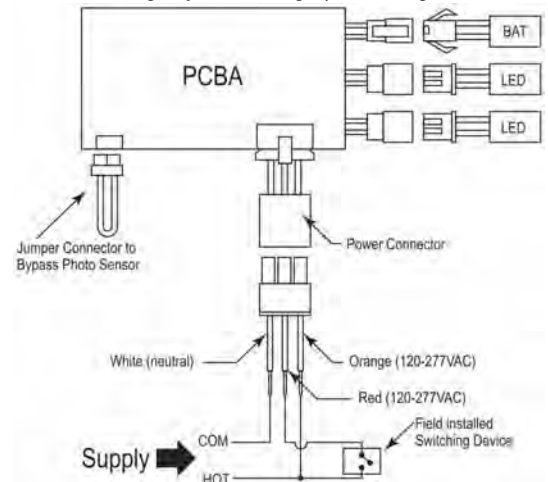
### PHOTO SENSOR

*Unit ON when there is not enough ambient light; will automatically switch to emergency mode during a power outage.*



### SWITCHED

*Controlled operation in AC mode; will automatically switch to emergency mode during a power outage.*



## UP/DN Cylinder Luminair

### Lumen & Kelvin Selectable

#### STANDARDS



#### HOUSING

- Premium powder-coat, aluminum, dark bronze housing.

#### ELECTRICAL

- Operating temperature (ambient): -40°C to 45°C (-40°F to 113°F).
- Universal 120-277V AC voltage (50-60Hz) is standard.
- Field selectable output, with 3 levels for each model.
- 0-10VDC dimming drivers are standard.
- Internal switch allows a choice of up only, down only, or both up and down.
- Internal photocell is standard. Photocell can be enabled or disabled by switch.
- Surge protection = 4kV.
- Power factor > 0.90.
- Total Harmonic distortion < 20%.

#### OPTICAL SYSTEM

- High temperature resistant toughened glass lens.
- Field selectable 3000k(warm white), 4000k (neutral white) and 5000k (cool white) color temperatures\*.
- CYL-UPDN-976L-3CCT provides a range of 600 to 900 nominal lumens\*.
- CYL-UPDN-201712L-3CCT provides a range of 1,200 to 2,000 nominal lumens\*.
- CYL-UPDN-302722L-3CCT provides a range of 2,200 to 3,000 nominal lumens\*.
- Long-life LEDs provide 140,000 hours of operation with at least 70% of initial lumen output (L70)\*\*.
- Beam angle 35°.
- LED color maintenance < 0.00342 chromaticity shift ( $\Delta u'v'$ ) over the initial 6,000 hours of operation.
- Color rendering index > 90.

\* Default 4000k color temperature and highest lumen output.

\*\*L70 hours are IES TM-21-11 calculated hours.



#### MOUNTING

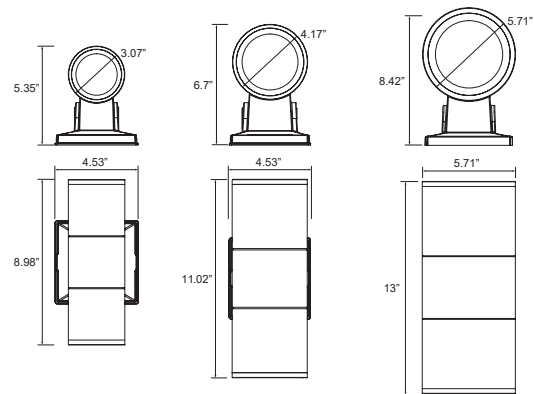
- Wall mount kit
- Easy installation in new construction or retrofit applications.

#### CODE COMPLIANCE

- cULus listed for wet locations.
- Complies with FCC part 15, class B.
- IP65 rated for ingress protection.

#### WARRANTY

- 5 year warranty on all electronics and housing.



| Model #               | L (in) | W (in) | H (in) | Ø(in) | Weight (lbs) |
|-----------------------|--------|--------|--------|-------|--------------|
| CYL-UPDN-976L-3CCT    | 4.53   | 5.35   | 8.98   | 3.07  | 2.65         |
| CYL-UPDN-201712L-3CCT | 4.53   | 6.7    | 11.02  | 4.17  | 4.13         |
| CYL-UPDN-302722L-3CCT | 5.71   | 8.42   | 13     | 5.71  | 6.48         |

#### ORDERING INFORMATION

Example: CYL-UPDN-302722L-3CCT

| Series   | Nominal Lumen Output (Selectable) |                       | Kelvin Selectable |
|----------|-----------------------------------|-----------------------|-------------------|
| CYL-UPDN | 976L                              | 900 / 700 / 600       | 3CCT 3K / 4K / 5K |
|          | 201712L                           | 2,000 / 1,700 / 1,200 |                   |
|          | 302722L                           | 3,000 / 2,700 / 2,200 |                   |

## COMPATIBLE DIMMERS AND CONTROLS

| Manufacturer  | Model Number | Dimmer Range | Load Switching Capacity |
|---------------|--------------|--------------|-------------------------|
| Best Lighting | DWS-010V-T   | 10%-100%     | 600W                    |
| Best Lighting | DWS-010V-D   | 10%-100%     | 600W                    |
| Leviton       | IP710-LFZ    | 10%-100%     | 1200W                   |
| Lutron        | DVSTV        | 10%-100%     | 450W                    |

## LUMEN TABLES

| Series             | Measurements | Low Lumens |       |       | Mid Lumens |       |       | High Lumens |       |       |
|--------------------|--------------|------------|-------|-------|------------|-------|-------|-------------|-------|-------|
|                    |              | 3000K      | 4000K | 5000K | 3000K      | 4000K | 5000K | 3000K       | 4000K | 5000K |
| CYL-UPDN-976L-3CCT | Lumens       | 502        | 565   | 590   | 625        | 707   | 735   | 763         | 864   | 894   |
|                    | Watt         | 6.07       | 5.99  | 6.06  | 7.62       | 7.49  | 7.61  | 9.37        | 9.19  | 9.33  |
|                    | Efficacy     | 83         | 94    | 97    | 82         | 94    | 97    | 81          | 94    | 96    |

| Series                | Measurements | Low Lumens |       |       | Mid Lumens |       |       | High Lumens |       |       |
|-----------------------|--------------|------------|-------|-------|------------|-------|-------|-------------|-------|-------|
|                       |              | 3000K      | 4000K | 5000K | 3000K      | 4000K | 5000K | 3000K       | 4000K | 5000K |
| CYL-UPDN-201712L-3CCT | Lumens       | 1115       | 1225  | 1277  | 1487       | 1662  | 1716  | 1739        | 1959  | 1999  |
|                       | Watt         | 12.31      | 12.14 | 12.32 | 16.82      | 16.61 | 16.88 | 20.07       | 19.79 | 20.1  |
|                       | Efficacy     | 91         | 101   | 104   | 88         | 100   | 102   | 87          | 99    | 99    |

| Series                | Measurements | Low Lumens |       |       | Mid Lumens |       |       | High Lumens |       |       |
|-----------------------|--------------|------------|-------|-------|------------|-------|-------|-------------|-------|-------|
|                       |              | 3000K      | 4000K | 5000K | 3000K      | 4000K | 5000K | 3000K       | 4000K | 5000K |
| CYL-UPDN-302722L-3CCT | Lumens       | 2004       | 2162  | 2237  | 2443       | 2660  | 2716  | 2663        | 2912  | 2979  |
|                       | Watt         | 23.65      | 23.48 | 23.91 | 29.88      | 29.63 | 30.09 | 34.66       | 34.43 | 34.85 |
|                       | Efficacy     | 85         | 92    | 94    | 82         | 90    | 90    | 77          | 85    | 85    |

## ELECTRICAL DATA

| Series             | CCT   | Input Amps (A) |      |      |            |      |      |             |      |      |
|--------------------|-------|----------------|------|------|------------|------|------|-------------|------|------|
|                    |       | Low Lumens     |      |      | Mid Lumens |      |      | High Lumens |      |      |
|                    |       | 120V           | 240V | 277V | 120V       | 240V | 277V | 120V        | 240V | 277V |
| CYL-UPDN-976L-3CCT | 3000k | 0.05           | 0.03 | 0.02 | 0.06       | 0.03 | 0.03 | 0.08        | 0.04 | 0.03 |
|                    | 4000k | 0.05           | 0.02 | 0.02 | 0.06       | 0.03 | 0.03 | 0.08        | 0.04 | 0.03 |
|                    | 5000k | 0.05           | 0.03 | 0.02 | 0.06       | 0.03 | 0.03 | 0.08        | 0.04 | 0.03 |

| Series                | CCT   | Input Amps (A) |      |      |            |      |      |             |      |      |
|-----------------------|-------|----------------|------|------|------------|------|------|-------------|------|------|
|                       |       | Low Lumens     |      |      | Mid Lumens |      |      | High Lumens |      |      |
|                       |       | 120V           | 240V | 277V | 120V       | 240V | 277V | 120V        | 240V | 277V |
| CYL-UPDN-201712L-3CCT | 3000k | 0.10           | 0.05 | 0.04 | 0.14       | 0.07 | 0.06 | 0.17        | 0.08 | 0.07 |
|                       | 4000k | 0.10           | 0.05 | 0.04 | 0.14       | 0.07 | 0.06 | 0.16        | 0.08 | 0.07 |
|                       | 5000k | 0.10           | 0.05 | 0.04 | 0.14       | 0.07 | 0.06 | 0.17        | 0.08 | 0.07 |

| Series                | CCT   | Input Amps (A) |      |      |            |      |      |             |      |      |
|-----------------------|-------|----------------|------|------|------------|------|------|-------------|------|------|
|                       |       | Low Lumens     |      |      | Mid Lumens |      |      | High Lumens |      |      |
|                       |       | 120V           | 240V | 277V | 120V       | 240V | 277V | 120V        | 240V | 277V |
| CYL-UPDN-302722L-3CCT | 3000k | 0.20           | 0.10 | 0.09 | 0.25       | 0.12 | 0.11 | 0.29        | 0.14 | 0.13 |
|                       | 4000k | 0.20           | 0.10 | 0.08 | 0.25       | 0.12 | 0.11 | 0.29        | 0.14 | 0.12 |
|                       | 5000k | 0.20           | 0.10 | 0.09 | 0.25       | 0.13 | 0.11 | 0.29        | 0.15 | 0.13 |

## PHOTOMETRICS

## CYL-UPDN-976L-3CCT

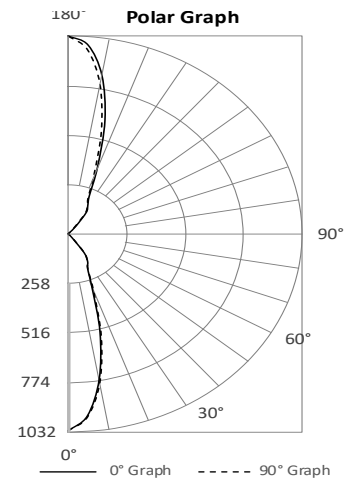
## Luminaire Data

|                             |                                               |
|-----------------------------|-----------------------------------------------|
| Description                 | Up Down Wall Cylinder Lumen and Kelvin Select |
| Total Lumens                | 864                                           |
| Input Wattage               | 9                                             |
| Efficacy (lm/W)             | 94                                            |
| Max. Cd.                    | 1034.1 (292.5H, 179V)                         |
| IES Classification          | N.A.                                          |
| Longitudinal Classification | N.A.                                          |

Photometrics calculated at 4000k and highest lumen setting.

## Luminaire Classification Systems (LCS)

| LCS Zone     | Lumens     | %Lum          |
|--------------|------------|---------------|
| FL 0-30      | 166        | 19.2%         |
| FM 30-60     | 40         | 4.7%          |
| FH 60-80     | 1          | 0.1%          |
| FVH 80-90    | 0          | 0.0%          |
| BL 0-30      | 177        | 20.4%         |
| BM 30-60     | 46         | 5.3%          |
| BH 60-80     | 1          | 0.1%          |
| BVH 80-90    | 0          | 0.0%          |
| UL 90-100    | 0          | 0.1%          |
| UH 100-180   | 432        | 50.1%         |
| <b>Total</b> | <b>864</b> | <b>100.0%</b> |
| BUG Rating   | B1-U3-G0   |               |



## CYL-UPDN-201712L-3CCT

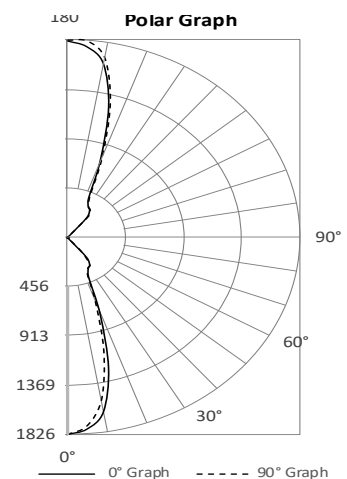
## Luminaire Data

|                             |                                               |
|-----------------------------|-----------------------------------------------|
| Description                 | Up Down Wall Cylinder Lumen and Kelvin Select |
| Total Lumens                | 1,959                                         |
| Input Wattage               | 20                                            |
| Efficacy (lm/W)             | 99                                            |
| Max. Cd.                    | 1843.6 (67.5H, 177V)                          |
| IES Classification          | N.A.                                          |
| Longitudinal Classification | N.A.                                          |

Photometrics calculated at 4000k and highest lumen setting.

## Luminaire Classification Systems (LCS)

| LCS Zone     | Lumens       | %Lum          |
|--------------|--------------|---------------|
| FL 0-30      | 353          | 18.0%         |
| FM 30-60     | 133          | 6.8%          |
| FH 60-80     | 13           | 0.6%          |
| FVH 80-90    | 6            | 0.3%          |
| BL 0-30      | 332          | 17.0%         |
| BM 30-60     | 125          | 6.4%          |
| BH 60-80     | 12           | 0.6%          |
| BVH 80-90    | 6            | 0.3%          |
| UL 90-100    | 12           | 0.6%          |
| UH 100-180   | 967          | 49.4%         |
| <b>Total</b> | <b>1,959</b> | <b>100.0%</b> |
| BUG Rating   | B1-U4-G0     |               |



## CYL-UPDN-302722L-3CCT

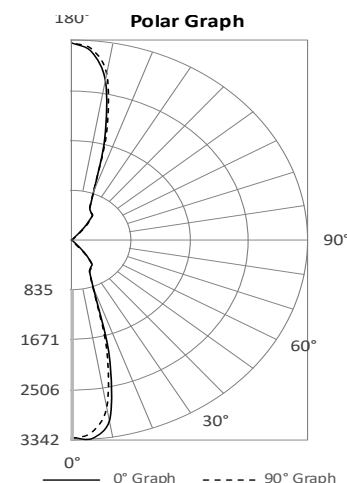
## Luminaire Data

|                             |                                               |
|-----------------------------|-----------------------------------------------|
| Description                 | Up Down Wall Cylinder Lumen and Kelvin Select |
| Total Lumens                | 2,912                                         |
| Input Wattage               | 34                                            |
| Efficacy (lm/W)             | 85                                            |
| Max. Cd.                    | 3358.3 (337.5H, 6V)                           |
| IES Classification          | Type VS                                       |
| Longitudinal Classification | Very Short                                    |

Photometrics calculated at 4000k and highest lumen setting.

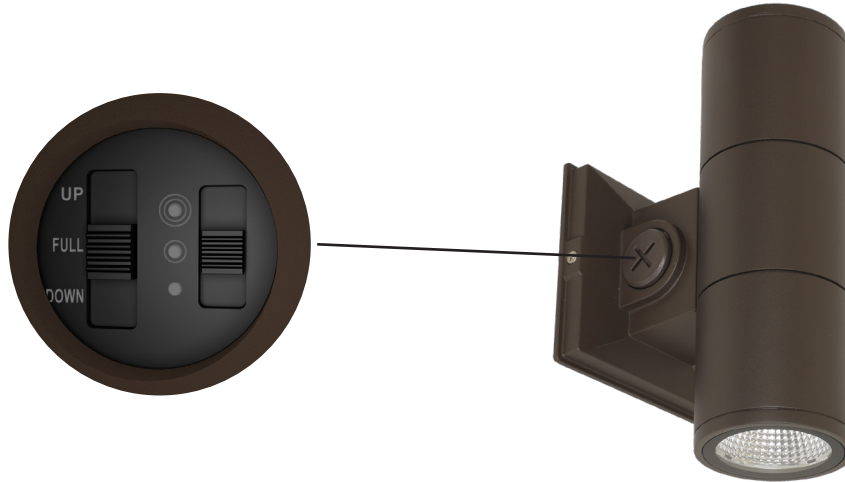
## Luminaire Classification Systems (LCS)

| LCS Zone     | Lumens       | %Lum          |
|--------------|--------------|---------------|
| FL 0-30      | 553          | 19.0%         |
| FM 30-60     | 180          | 6.2%          |
| FH 60-80     | 4            | 0.1%          |
| FVH 80-90    | 1            | 0.0%          |
| BL 0-30      | 536          | 18.4%         |
| BM 30-60     | 178          | 6.1%          |
| BH 60-80     | 5            | 0.2%          |
| BVH 80-90    | 1            | 0.0%          |
| UL 90-100    | 1            | 0.0%          |
| UH 100-180   | 1,454        | 49.9%         |
| <b>Total</b> | <b>2,912</b> | <b>100.0%</b> |
| BUG Rating   | B2-U5-G0     |               |



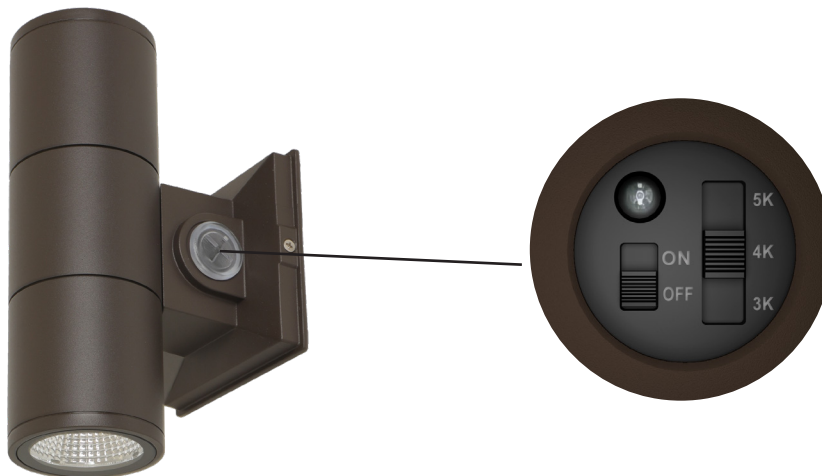
### DIP switch for Wattage & Light option

Factory default setting :  
Wattage: High Power  
Light option: FULL



### DIP switch for CCT and Photocell

Factory default setting :  
CCT: 4000K  
Photocell: OFF



## Adjustable Wall Pack Sensor Ready

### STANDARDS



### HOUSING

- Premium powder-coat, die cast aluminum, Bronze housing.

### ELECTRICAL

- Operating temperature (ambient): -40°C to 50°C (-40°F to 122°F).
- Universal 120-277 AC voltage (50-60Hz) is standard.
- 0-10V DC dimming drivers are standard.
- Integrated photocell is standard. Photocell can be enabled or disabled by switch.
- Input transient surge protection = 6kV.
- PF > 0.9; THD < 20%.

### OPTICAL SYSTEM

- Polycarbonate lens.
- Field selectable 3000K (warm white), 4000K (neutral white) and 5000K (cool white) color temperatures.\*
- WPASR-6543L-3CCT provides a range of 2,739 to 6,002 nominal lumens.\*
- WPASR-121086L-3CCT provides a range of 6,402 to 11,875 nominal lumens.\*
- Long-life LEDs provide 167,000 hours of operation with at least 70% of initial lumen output (L70), and 51,000 hours with at least 90% of initial lumen output (L90).\*\*
- Adjustable housing up to 90°.
- Screw in sensor ready. Occupancy sensor and remote control sold separately. Remote control required to change factory sensor settings.
- LED chromaticity based on < 6-step ANSI quadrangles.
- LED color maintenance < -0.0031 chromaticity shift ( $\Delta u'v'$ ) over the initial 6,000 hours of operation.
- Color Rendering Index > 80.

\* Default kelvin temperature 4000k and highest lumen output.

\*\* L70 & L90 hours are IES TM-21-11 calculated hours.



### MOUNTING

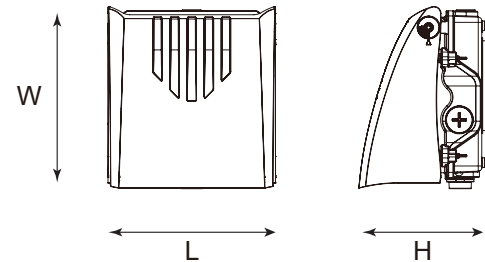
- Wall mounting kit.

### CODE COMPLIANCE

- cULus listed for wet locations.
- DLC premium listed
- Complies with FCC Part 15, class A.
- IP65 rated for ingress protection.
- IK08 rated for impact protection.

### WARRANTY

- 5 year warranty on all electronics and housing.



| Model #            | L (in) | W (in) | H (in) | Weight (lbs) |
|--------------------|--------|--------|--------|--------------|
| WPASR-6543L-3CCT   | 7.72   | 8.37   | 5.8    | 3.73         |
| WPASR-121086L-3CCT | 7.72   | 8.37   | 5.8    | 3.85         |

### ORDERING INFORMATION

Example: WPASR-6543L-3CCT

| Model | Nominal Lumen Output<br>(selectable) |                                 | Kelvin<br>(selectable) |                   | Installed Options       |
|-------|--------------------------------------|---------------------------------|------------------------|-------------------|-------------------------|
| WPASR | 6543L                                | 6,000/ 5,000/ 4,000/ 3,000 lm   | 3CCT                   | 3000/ 4000/ 5000K | EM4 4W Emergency Driver |
|       | 121086L                              | 12,000/ 10,000/ 8,000/ 6,000 lm |                        |                   |                         |

## ACCESSORIES (ORDER SEPARATELY)

**Sensor**

|              |   |                                                                                           |
|--------------|---|-------------------------------------------------------------------------------------------|
| HD07VR-PHF-1 | = | Passive infrared sensor - maximum mounting height = 39 FT                                 |
| HD07VR-MHF-1 | = | Microwave step-dimming sensor - maximum mounting height = 49 FT                           |
| HD05R        | = | Remote control for HD07VR and HD09VR series Sensors (required to change factory settings) |

**Factory settings or Sensor :** detection a ea =100%, hold time = 5 sec, tand-by period = 0 sec, stand-by dimming level = 10%, daylight threshold = disabled

## COMPATIBLE DIMMERS AND CONTROLS

| Manufacturer  | Model Number | Dimmer Range | Load Switching Capacity |
|---------------|--------------|--------------|-------------------------|
| Best Lighting | DWS-010V-T   | 10%-100%     | 600W                    |
| Best Lighting | DWS-010V-D   | 10%-100%     | 600W                    |
| Leviton       | IP710-LFZ    | 10%-100%     | 1200W                   |
| Lutron        | DVSTV        | 10%-100%     | 450W                    |

## COMPATIBLE EMERGENCY DRIVERS-INSTALLED\*

| Emergency Driver<br>Part Number | EM4   |           |
|---------------------------------|-------|-----------|
| Model                           | Watts | EM Lumens |
| WPASR-6543L-3CCT**              | 4     | 609       |
| WPASR-121086L-3CCT              | 4     | 609       |

\* EM Lumens based on factory setting of 4000K CCT and highest power setting.

## LUMEN TABLES

| Series           | Measurements | 18W    |        |        | 25W    |        |        | 30W    |        |        | 40W    |        |        |
|------------------|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                  |              | 3000K  | 4000K  | 5000K  | 3000K  | 4000K  | 5000K  | 3000K  | 4000K  | 5000K  | 3000K  | 4000K  | 5000K  |
| WPASR-6543L-3CCT | Lumens       | 2,739  | 2,806  | 2,833  | 3,769  | 3,909  | 3,899  | 4,629  | 4,837  | 4,789  | 5,683  | 6,002  | 5,885  |
|                  | Watts        | 18.65  | 18.3   | 18.56  | 25.99  | 25.38  | 25.87  | 32.43  | 31.44  | 32.15  | 40.85  | 39.45  | 40.48  |
|                  | Efficacy     | 146.86 | 153.33 | 152.64 | 145.02 | 154.02 | 150.72 | 142.74 | 153.85 | 148.96 | 139.12 | 152.14 | 145.38 |

| Series             | Measurements | 40W    |        |        | 50W    |        |        | 60W    |        |        | 80W    |        |        |
|--------------------|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                    |              | 3000K  | 4000K  | 5000K  | 3000K  | 4000K  | 5000K  | 3000K  | 4000K  | 5000K  | 3000K  | 4000K  | 5000K  |
| WPASR-121086L-3CCT | Lumens       | 6,402  | 6,693  | 6,606  | 7,772  | 8,213  | 8,041  | 9,008  | 9,589  | 9,325  | 10,891 | 11,875 | 11,417 |
|                    | Watts        | 42.62  | 41.54  | 42.29  | 53.07  | 51.62  | 52.63  | 63.16  | 61.18  | 62.58  | 81.07  | 77.94  | 80.17  |
|                    | Efficacy     | 150.21 | 161.12 | 156.21 | 146.45 | 159.10 | 152.78 | 142.62 | 156.73 | 149.01 | 134.34 | 152.36 | 142.41 |

## ELECTRICAL DATA

| Series           | CCT   | Input Amps (A) |      |      |      |      |      |      |      |      |      |      |      |
|------------------|-------|----------------|------|------|------|------|------|------|------|------|------|------|------|
|                  |       | 18W            |      |      | 25W  |      |      | 30W  |      |      | 40W  |      |      |
|                  |       | 120V           | 240V | 277V | 120V | 240V | 277V | 120V | 240V | 277V | 120V | 240V | 277V |
| WPASR-6543L-3CCT | 3000K | 0.16           | 0.08 | 0.07 | 0.22 | 0.11 | 0.09 | 0.27 | 0.14 | 0.12 | 0.34 | 0.17 | 0.15 |
|                  | 4000K | 0.15           | 0.08 | 0.07 | 0.21 | 0.11 | 0.09 | 0.26 | 0.13 | 0.11 | 0.33 | 0.16 | 0.14 |
|                  | 5000K | 0.15           | 0.08 | 0.07 | 0.22 | 0.11 | 0.09 | 0.27 | 0.13 | 0.12 | 0.34 | 0.17 | 0.15 |

| Series             | CCT   | Input Amps (A) |      |      |      |      |      |      |      |      |      |      |      |
|--------------------|-------|----------------|------|------|------|------|------|------|------|------|------|------|------|
|                    |       | 40W            |      |      | 50W  |      |      | 60W  |      |      | 80W  |      |      |
|                    |       | 120V           | 240V | 277V | 120V | 240V | 277V | 120V | 240V | 277V | 120V | 240V | 277V |
| WPASR-121086L-3CCT | 3000K | 0.36           | 0.18 | 0.15 | 0.44 | 0.22 | 0.19 | 0.53 | 0.26 | 0.23 | 0.68 | 0.34 | 0.29 |
|                    | 4000K | 0.35           | 0.17 | 0.15 | 0.43 | 0.22 | 0.19 | 0.51 | 0.25 | 0.22 | 0.65 | 0.32 | 0.28 |
|                    | 5000K | 0.35           | 0.18 | 0.15 | 0.44 | 0.22 | 0.19 | 0.52 | 0.26 | 0.23 | 0.67 | 0.33 | 0.29 |

## PHOTOMETRICS

### WPASR-6543L-3CCT

#### Luminaire Data

|                             |                                          |
|-----------------------------|------------------------------------------|
| Description                 | Adjustable Wall Pack<br>Field Selectable |
| Total Lumens                | 6,002                                    |
| Input Wattage               | 39                                       |
| Efficacy (lm/W)             | 152                                      |
| Max. Cd.                    | 2470.8 (360H, 21V)                       |
| IES Classification          | Type II                                  |
| Longitudinal Classification | Very Short                               |

#### Zonal Lumen Summary

| Zone     | Lumens | %Fixt  |
|----------|--------|--------|
| 0-30°    | 1,727  | 28.8%  |
| 0-60°    | 5,076  | 84.6%  |
| 0-80°    | 5,959  | 99.3%  |
| 80-90°   | 43     | 0.7%*  |
| 0-90°    | 6,002  | 100.0% |
| 90-110°  | 0      | 0.0%   |
| 110-180° | 0      | 0.0%   |
| 0-180°   | 6,002  | 100.0% |

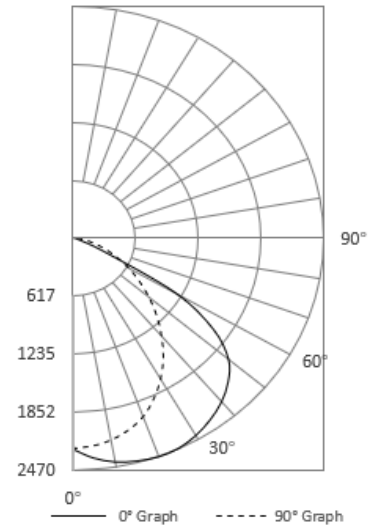
#### Luminaire Classification Systems (LCS)

| LCS Zone     | Lumens       | %Lum          |
|--------------|--------------|---------------|
| FL 0-30      | 968          | 16.1%         |
| FM 30-60     | 2,064        | 34.4%         |
| FH 60-80     | 537          | 9.0%          |
| FVH 80-90    | 9            | 0.1%          |
| BL 0-30      | 759          | 12.6%         |
| BM 30-60     | 1,285        | 21.4%         |
| BH 60-80     | 346          | 5.8%          |
| BVH 80-90    | 34           | 0.6%          |
| UL 90-100    | 0            | 0.0%          |
| UH 100-180   | 0            | 0.0%          |
| <b>Total</b> | <b>6,002</b> | <b>100.0%</b> |
| BUG Rating   | B2-U0-G1     |               |

*Photometrics calculated @4000k, and  
highest lumen setting*

\* 80-90° glare zone is calculated by dividing the lumens in that zone by the  
lumen total in the 0-90° zone

#### 180° Polar Graph



### WPASR-121086L-3CCT

#### Luminaire Data

|                             |                                          |
|-----------------------------|------------------------------------------|
| Description                 | Adjustable Wall Pack<br>Field Selectable |
| Total Lumens                | 11,875                                   |
| Input Wattage               | 78                                       |
| Efficacy (lm/W)             | 152                                      |
| Max. Cd.                    | 4830.6 (360H, 20V)                       |
| IES Classification          | Type III                                 |
| Longitudinal Classification | Very Short                               |

#### Zonal Lumen Summary

| Zone     | Lumens | %Fixt  |
|----------|--------|--------|
| 0-30°    | 3,360  | 28.3%  |
| 0-60°    | 9,924  | 83.6%  |
| 0-80°    | 11,791 | 99.3%  |
| 80-90°   | 84     | 0.7%*  |
| 0-90°    | 11,875 | 100.0% |
| 90-110°  | 0      | 0.0%   |
| 110-180° | 0      | 0.0%   |
| 0-180°   | 11,875 | 100.0% |

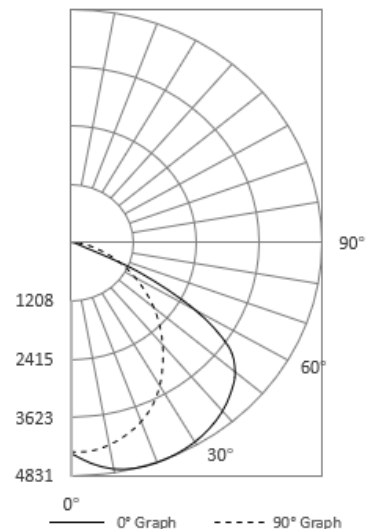
#### Luminaire Classification Systems (LCS)

| LCS Zone     | Lumens        | %Lum          |
|--------------|---------------|---------------|
| FL 0-30      | 1,890         | 15.9%         |
| FM 30-60     | 4,136         | 34.8%         |
| FH 60-80     | 1,268         | 10.7%         |
| FVH 80-90    | 34            | 0.3%          |
| BL 0-30      | 1,471         | 12.4%         |
| BM 30-60     | 2,427         | 20.4%         |
| BH 60-80     | 599           | 5.0%          |
| BVH 80-90    | 51            | 0.4%          |
| UL 90-100    | 0             | 0.0%          |
| UH 100-180   | 0             | 0.0%          |
| <b>Total</b> | <b>11,875</b> | <b>100.0%</b> |
| BUG Rating   | B3-U0-G2      |               |

*Photometric calculated at 4000k, and  
highest lumen output*

\* 80-90° glare zone is calculated by dividing the lumens in that zone by the  
lumen total in the 0-90° zone

#### 180° Polar Graph



## Full Cutoff Wall Pack Sensor Ready

### STANDARDS



### HOUSING

- Premium powder-coat, die cast aluminum, Bronze housing.

### ELECTRICAL

- Operating temperature (ambient): -40°C to 50°C (-40°F to 122°F).
- Universal 120-277 AC voltage (50-60Hz) is standard.
- 0-10V DC dimming drivers are standard.
- Integrated photocell is standard. Photocell can be enabled or disabled by switch.
- Input transient surge protection = 6kV.
- PF > 0.9; THD < 20%.

### OPTICAL SYSTEM

- Polycarbonate lens.
- Field selectable 3000K (warm white), 4000K (neutral white) and 5000K (cool white) color temperatures.\*
- WPFCSR-9865L-3CCT provides a range of 4,815 to 9,010 nominal lumens.\*
- WPFCSR-17151310L-3CCT provides a range of 9,337 to 17,186 nominal lumens.\*
- Long-life LEDs provide 167,000 hours of operation with at least 70% of initial lumen output (L70), and 51,000 hours with at least 90% of initial lumen output (L90).\*\*
- Screw in sensor ready. Occupancy sensor and remote control sold separately. Remote control required to change factory sensor settings.
- LED chromaticity based on < 6-step ANSI quadrangles.
- LED color maintenance < -0.0034 chromaticity shift ( $\Delta u'v'$ ) over the initial 6,000 hours of operation.
- Color Rendering Index > 80.

\* Default kelvin temperature 4000k and highest lumen output.

\*\* L70 & L90 hours are IES TM-21-11 calculated hours.



### MOUNTING

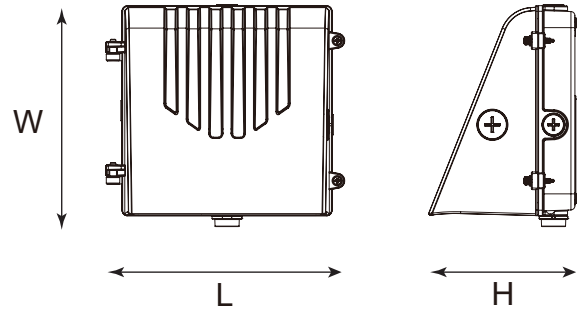
- Wall mounting kit.

### CODE COMPLIANCE

- cULus listed for wet locations.
- DLC premium listed
- Complies with FCC Part 15, class A.
- IP65 rated for ingress protection.
- IK08 rated for impact protection.

### WARRANTY

- 5 year warranty on all electronics and housing.



| Model #               | L (in) | W (in) | H (in) | Weight (lbs) |
|-----------------------|--------|--------|--------|--------------|
| WPFCSR-9865L-3CCT     | 10.06  | 8.86   | 6.25   | 3.98         |
| WPFCSR-17151310L-3CCT | 14.49  | 9.25   | 6.44   | 5.97         |

### ORDERING INFORMATION

Example: WPFCSR-9865L-3CCT

| Model  | Nominal Lumen Output<br>(selectable) |                                   | Kelvin<br>(selectable) |                   | Installed Options       |
|--------|--------------------------------------|-----------------------------------|------------------------|-------------------|-------------------------|
| WPFCSR | 9865L                                | 9,000/ 8,000/ 6,000/ 5,000 lm     | 3CCT                   | 3000/ 4000/ 5000K | EM8 8W Emergency Driver |
|        | 17151310L                            | 17,000/ 15,000/ 13,000/ 10,000 lm |                        |                   |                         |

## ACCESSORIES (ORDER SEPARATELY)

### Sensor

|              |   |                                                                                           |
|--------------|---|-------------------------------------------------------------------------------------------|
| HD07VR-PHF-1 | = | Passive infrared sensor - maximum mounting height = 39 FT                                 |
| HD07VR-MHF-1 | = | Microwave step-dimming sensor - maximum mounting height = 49 FT                           |
| HD05R        | = | Remote control for HD07VR and HD09VR series Sensors (required to change factory settings) |

**Factory settings or Sensor :** detection a ea =100%, hold time = 5 sec, tand-by period = 0 sec, stand-by dimming level = 10%, daylight threshold = disabled

## COMPATIBLE DIMMERS AND CONTROLS

| Manufacturer  | Model Number | Dimmer Range | Load Switching Capacity |
|---------------|--------------|--------------|-------------------------|
| Best Lighting | DWS-010V-T   | 10%-100%     | 600W                    |
| Best Lighting | DWS-010V-D   | 10%-100%     | 600W                    |
| Leviton       | IP710-LFZ    | 10%-100%     | 1200W                   |
| Lutron        | DVSTV        | 10%-100%     | 450W                    |

## COMPATIBLE EMERGENCY DRIVERS-INSTALLED\*

| Emergency Driver<br>Part Number | EM8   |            |
|---------------------------------|-------|------------|
| Model                           | Watts | EM Lumens* |
| WPFCSR-9865L-3CCT               | 8     | 1260       |
| WPFCSR-17151310L-3CCT           | 8     | 1269       |

\* EM Lumens based on factory setting of 4000K CCT and highest power setting.

Note: EM8 run time is 90 minutes.

Note: EM8 minimum ambient temperature is -20°C(-4°F)

## LUMEN TABLES

| Series            | Measurements | 30W    |        |        | 40W    |        |        | 50W    |        |        | 60W    |        |        |
|-------------------|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                   |              | 3000K  | 4000K  | 5000K  | 3000K  | 4000K  | 5000K  | 3000K  | 4000K  | 5000K  | 3000K  | 4000K  | 5000K  |
| WPFCSR-9865L-3CCT | Lumens       | 4,815  | 5,015  | 5,024  | 6,034  | 6,295  | 6,308  | 7,644  | 8,042  | 8,000  | 8,529  | 9,010  | 8,916  |
|                   | Watts        | 31.28  | 30.56  | 31.23  | 39.87  | 38.98  | 39.81  | 52.02  | 50.55  | 51.98  | 59.13  | 57.22  | 58.95  |
|                   | Efficacy     | 153.93 | 164.10 | 160.87 | 151.34 | 161.49 | 158.45 | 146.94 | 159.09 | 153.91 | 144.24 | 157.46 | 151.25 |

| Series                | Measurements | 60W    |        |        | 80W    |        |        | 100W   |        |        | 120W   |        |        |
|-----------------------|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                       |              | 3000K  | 4000K  | 5000K  | 3000K  | 4000K  | 5000K  | 3000K  | 4000K  | 5000K  | 3000K  | 4000K  | 5000K  |
| WPFCSR-17151310L-3CCT | Lumens       | 9,337  | 9,638  | 9,740  | 12,067 | 12,561 | 12,586 | 14,370 | 15,090 | 15,010 | 16,282 | 17,186 | 16,980 |
|                       | Watts        | 59.62  | 58.48  | 59.54  | 78.87  | 77.01  | 78.78  | 96.32  | 93.79  | 96.27  | 111.81 | 108.36 | 111.5  |
|                       | Efficacy     | 156.61 | 164.81 | 163.59 | 153.00 | 163.11 | 159.76 | 149.19 | 160.89 | 155.92 | 145.62 | 158.60 | 152.29 |

## ELECTRICAL DATA

| Series            | CCT   | Input Amps (A) |      |      |      |      |      |      |      |      |      |      |      |
|-------------------|-------|----------------|------|------|------|------|------|------|------|------|------|------|------|
|                   |       | 30W            |      |      | 40W  |      |      | 50W  |      |      | 60W  |      |      |
|                   |       | 120V           | 240V | 277V | 120V | 240V | 277V | 120V | 240V | 277V | 120V | 240V | 277V |
| WPFCSR-9865L-3CCT | 3000K | 0.26           | 0.13 | 0.11 | 0.33 | 0.17 | 0.14 | 0.43 | 0.22 | 0.19 | 0.49 | 0.25 | 0.21 |
|                   | 4000K | 0.25           | 0.13 | 0.11 | 0.32 | 0.16 | 0.14 | 0.42 | 0.21 | 0.18 | 0.48 | 0.24 | 0.21 |
|                   | 5000K | 0.26           | 0.13 | 0.11 | 0.33 | 0.17 | 0.14 | 0.43 | 0.22 | 0.19 | 0.49 | 0.25 | 0.21 |

| Series                | CCT   | Input Amps (A) |      |      |      |      |      |      |      |      |      |      |      |
|-----------------------|-------|----------------|------|------|------|------|------|------|------|------|------|------|------|
|                       |       | 60W            |      |      | 80W  |      |      | 100W |      |      | 120W |      |      |
|                       |       | 120V           | 240V | 277V | 120V | 240V | 277V | 120V | 240V | 277V | 120V | 240V | 277V |
| WPFCSR-17151310L-3CCT | 3000K | 0.50           | 0.25 | 0.22 | 0.66 | 0.33 | 0.28 | 0.80 | 0.40 | 0.35 | 0.93 | 0.47 | 0.40 |
|                       | 4000K | 0.49           | 0.24 | 0.21 | 0.64 | 0.32 | 0.28 | 0.78 | 0.39 | 0.34 | 0.90 | 0.45 | 0.39 |
|                       | 5000K | 0.50           | 0.25 | 0.21 | 0.66 | 0.33 | 0.28 | 0.80 | 0.40 | 0.35 | 0.93 | 0.46 | 0.40 |

## PHOTOMETRICS

### WPFCSR-9865L-3CCT

#### Luminaire Data

|                             |                                            |
|-----------------------------|--------------------------------------------|
| Description                 | Full Cut Off Wall Pack<br>Field Selectable |
| Total Lumens                | 9,010                                      |
| Input Wattage               | 57                                         |
| Efficacy (lm/W)             | 157                                        |
| Max. Cd.                    | 3709.5 (360H, 25V)                         |
| IES Classification          | Type III                                   |
| Longitudinal Classification | Very Short                                 |

#### Zonal Lumen Summary

| Zone     | Lumens | %Fixt  |
|----------|--------|--------|
| 0-30°    | 2,496  | 27.7%  |
| 0-60°    | 7,392  | 82.0%  |
| 0-80°    | 8,939  | 99.2%  |
| 80-90°   | 71     | 0.8%*  |
| 0-90°    | 9,010  | 100.0% |
| 90-110°  | 0      | 0.0%   |
| 110-180° | 0      | 0.0%   |
| 0-180°   | 9,010  | 100.0% |

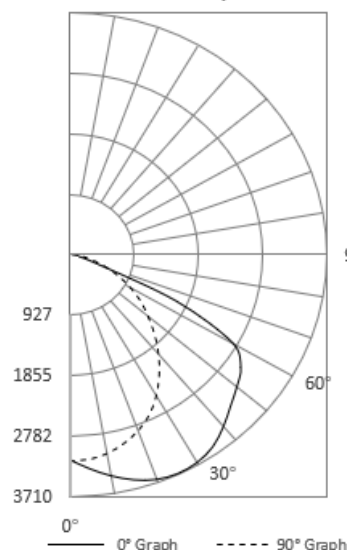
#### Luminaire Classification Systems (LCS)

| LCS Zone     | Lumens       | %Lum          |
|--------------|--------------|---------------|
| FL 0-30      | 1,398        | 15.5%         |
| FM 30-60     | 3,162        | 35.1%         |
| FH 60-80     | 1,173        | 13.0%         |
| FVH 80-90    | 46           | 0.5%          |
| BL 0-30      | 1,099        | 12.2%         |
| BM 30-60     | 1,734        | 19.2%         |
| BH 60-80     | 374          | 4.1%          |
| BVH 80-90    | 25           | 0.3%          |
| UL 90-100    | 0            | 0.0%          |
| UH 100-180   | 0            | 0.0%          |
| <b>Total</b> | <b>9,010</b> | <b>100.0%</b> |
| BUG Rating   | B3-U0-G1     |               |

Photometrics calculated @4000k, and  
highest lumen setting

\* 80-90° glare zone is calculated by dividing the lumens in that zone by the  
lumen total in the 0-90° zone

#### 180° Polar Graph



### WPFCSR-17151310L-3CCT

#### Luminaire Data

|                             |                                            |
|-----------------------------|--------------------------------------------|
| Description                 | Full Cut Off Wall Pack<br>Field Selectable |
| Total Lumens                | 17,186                                     |
| Input Wattage               | 108                                        |
| Efficacy (lm/W)             | 159                                        |
| Max. Cd.                    | 6670 (360H, 28V)                           |
| IES Classification          | Type III                                   |
| Longitudinal Classification | Very Short                                 |

#### Zonal Lumen Summary

| Zone     | Lumens | %Fixt  |
|----------|--------|--------|
| 0-30°    | 4,624  | 26.9%  |
| 0-60°    | 13,815 | 80.4%  |
| 0-80°    | 16,988 | 98.8%  |
| 80-90°   | 198    | 1.2%*  |
| 0-90°    | 17,186 | 100.0% |
| 90-110°  | 0      | 0.0%   |
| 110-180° | 0      | 0.0%   |
| 0-180°   | 17,186 | 100.0% |

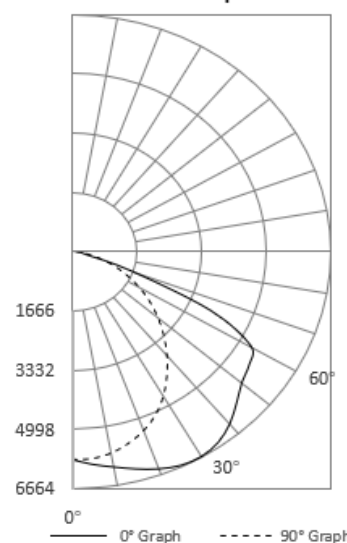
#### Luminaire Classification Systems (LCS)

| LCS Zone     | Lumens        | %Lum          |
|--------------|---------------|---------------|
| FL 0-30      | 2,516         | 14.6%         |
| FM 30-60     | 5,734         | 33.4%         |
| FH 60-80     | 2,374         | 13.8%         |
| FVH 80-90    | 141           | 0.8%          |
| BL 0-30      | 2,108         | 12.3%         |
| BM 30-60     | 3,457         | 20.1%         |
| BH 60-80     | 799           | 4.6%          |
| BVH 80-90    | 57            | 0.3%          |
| UL 90-100    | 0             | 0.0%          |
| UH 100-180   | 0             | 0.0%          |
| <b>Total</b> | <b>17,186</b> | <b>100.0%</b> |
| BUG Rating   | B3-U0-G2      |               |

Photometric calculated at 4000k, and  
highest lumen output

\* 80-90° glare zone is calculated by dividing the lumens in that zone by the  
lumen total in the 0-90° zone

#### 180° Polar Graph



## Traditional Wall Pack Sensor Ready

### STANDARDS



### HOUSING

- Premium powder-coat, die cast aluminum, Bronze housing.

### ELECTRICAL

- Operating temperature (ambient): -40°C to 50°C (-40°F to 122°F) .
- Universal 120-277 AC voltage (50-60Hz) is standard.
- 0-10V DC dimming drivers are standard.
- Integrated photocell is standard. Photocell can be enabled or disabled by switch.
- Input transient surge protection = 6kV.
- PF > 0.9; THD < 20%.

### OPTICAL SYSTEM

- Prismatic Glass lens.
- Field selectable 3000K (warm white), 4000K (neutral white) and 5000K (cool white) color temperatures.\*
- WPTSR-8654L-3CCT provides a range of 3,781 to 7,817 nominal lumens.\*
- WPTSR-1715129L-3CCT provides a range of 9,076 to 16,817 nominal lumens.\*
- Long-life LEDs provide 167,000 hours of operation with at least 70% of initial lumen output (L70), and 51,000 hours with at least 90% of initial lumen output (L90).\*\*
- Screw in sensor ready. Occupancy sensor and remote control sold separately. Remote control required to change factory sensor settings.
- LED chromaticity based on < 6-step ANSI quadrangles.
- LED color maintenance < -0.0027 chromaticity shift ( $\Delta u'v'$ ) over the initial 6,000 hours of operation.
- Color Rendering Index > 80.

\* Default kelvin temperature 4000k and highest lumen output.

\*\* L70 & L90 hours are IES TM-21-11 calculated hours.



### MOUNTING

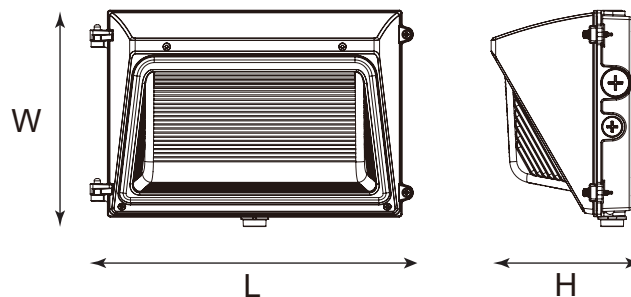
- Wall mounting kit.

### CODE COMPLIANCE

- cULus listed for wet locations.
- DLC premium listed
- Complies with FCC Part 15, class A.
- IP65 rated for ingress protection.
- IK06 rated for impact protection.

### WARRANTY

- 5 year warranty on all electronics and housing.



| Model #             | L (in) | W (in) | H (in) | Weight (lbs) |
|---------------------|--------|--------|--------|--------------|
| WPTSR-8654L-3CCT    | 14.47  | 6.45   | 9.25   | 7.07         |
| WPTSR-1715129L-3CCT | 14.47  | 6.45   | 9.25   | 7.29         |

### ORDERING INFORMATION

Example: WPTSR-8654L-3CCT

| Model | Nominal Lumen Output<br>(selectable) |                                  | Kelvin<br>(selectable) |                   | Installed Options       |
|-------|--------------------------------------|----------------------------------|------------------------|-------------------|-------------------------|
| WPTSR | 8654L                                | 8,000/ 6,000/ 5,000/ 4,000 lm    | 3CCT                   | 3000/ 4000/ 5000K | EM8 8W Emergency Driver |
|       | 1715129L                             | 17,000/ 15,000/ 12,000/ 9,000 lm |                        |                   |                         |

## ACCESSORIES (ORDER SEPARATELY)

**Sensor**

|              |   |                                                                                           |
|--------------|---|-------------------------------------------------------------------------------------------|
| HD07VR-PHF-1 | = | Passive infrared sensor - maximum mounting height = 39 FT                                 |
| HD07VR-MHF-1 | = | Microwave step-dimming sensor - maximum mounting height = 49 FT                           |
| HD05R        | = | Remote control for HD07VR and HD09VR series Sensors (required to change factory settings) |

**Factory settings or Sensor :** detection a ea =100%, hold time = 5 sec, tand-by period = 0 sec, stand-by dimming level = 10%, daylight threshold = disabled

## COMPATIBLE DIMMERS AND CONTROLS

| Manufacturer  | Model Number | Dimmer Range | Load Switching Capacity |
|---------------|--------------|--------------|-------------------------|
| Best Lighting | DWS-010V-T   | 10%-100%     | 600W                    |
| Best Lighting | DWS-010V-D   | 10%-100%     | 600W                    |
| Leviton       | IP710-LFZ    | 10%-100%     | 1200W                   |
| Lutron        | DVSTV        | 10%-100%     | 450W                    |

## COMPATIBLE EMERGENCY DRIVERS-INSTALLED\*

| Emergency Driver<br>Part Number | EM8   |           |
|---------------------------------|-------|-----------|
| Model                           | Watts | EM Lumens |
| WPTSR-8654L-3CCT                | 8     | 1239      |
| WPTSR-1715129L-3CCT             | 8     | 1219      |

\* EM Lumens based on factory setting of 4000K CC and highest power setting.

Note: EM8 run time is 90 minutes.

Note: EM8 minimum ambient temperature is -20°C(-4°F)

## LUMEN TABLES

| Series           | Measurements | 25W    |        |        | 30W    |        |        | 40W    |        |        | 50W    |        |        |
|------------------|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                  |              | 3000K  | 4000K  | 5000K  | 3000K  | 4000K  | 5000K  | 3000K  | 4000K  | 5000K  | 3000K  | 4000K  | 5000K  |
| WPTSR-8654L-3CCT | Lumens       | 3,781  | 3,863  | 3,927  | 4,653  | 4,786  | 4,842  | 5,714  | 5,910  | 5,946  | 7,462  | 7,817  | 7,755  |
|                  | Watts        | 25.17  | 24.7   | 25.14  | 31.27  | 30.61  | 31.22  | 38.79  | 37.7   | 38.75  | 52.02  | 50.49  | 51.84  |
|                  | Efficacy     | 150.22 | 156.40 | 156.21 | 148.80 | 156.35 | 155.09 | 147.31 | 156.76 | 153.45 | 143.44 | 154.82 | 149.59 |

| Series              | Measurements | 60W    |        |        | 80W    |        |        | 100W   |        |        | 120W   |        |        |
|---------------------|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                     |              | 3000K  | 4000K  | 5000K  | 3000K  | 4000K  | 5000K  | 3000K  | 4000K  | 5000K  | 3000K  | 4000K  | 5000K  |
| WPTSR-1715129L-3CCT | Lumens       | 9,076  | 9,413  | 9,532  | 11,765 | 12,350 | 12,374 | 13,993 | 14,803 | 14,709 | 15,836 | 16,817 | 16,722 |
|                     | Watts        | 60.3   | 59.07  | 60.22  | 80.31  | 78.48  | 80.29  | 98.14  | 95.56  | 97.97  | 113.96 | 110.4  | 113.72 |
|                     | Efficacy     | 150.51 | 159.35 | 158.29 | 146.49 | 157.36 | 154.12 | 142.58 | 154.91 | 150.14 | 138.96 | 152.33 | 147.05 |

## ELECTRICAL DATA

| Series           | CCT   | Input Amps (A) |      |      |      |      |      |      |      |      |      |      |      |
|------------------|-------|----------------|------|------|------|------|------|------|------|------|------|------|------|
|                  |       | 25W            |      |      | 30W  |      |      | 40W  |      |      | 50W  |      |      |
|                  |       | 120V           | 240V | 277V | 120V | 240V | 277V | 120V | 240V | 277V | 120V | 240V | 277V |
| WPTSR-8654L-3CCT | 3000K | 0.21           | 0.10 | 0.09 | 0.26 | 0.13 | 0.11 | 0.32 | 0.16 | 0.14 | 0.43 | 0.22 | 0.19 |
|                  | 4000K | 0.21           | 0.10 | 0.09 | 0.26 | 0.13 | 0.11 | 0.31 | 0.16 | 0.14 | 0.42 | 0.21 | 0.18 |
|                  | 5000K | 0.21           | 0.10 | 0.09 | 0.26 | 0.13 | 0.11 | 0.32 | 0.16 | 0.14 | 0.43 | 0.22 | 0.19 |

| Series              | CCT   | Input Amps (A) |      |      |      |      |      |      |      |      |      |      |      |
|---------------------|-------|----------------|------|------|------|------|------|------|------|------|------|------|------|
|                     |       | 60W            |      |      | 80W  |      |      | 100W |      |      | 120W |      |      |
|                     |       | 120V           | 240V | 277V | 120V | 240V | 277V | 120V | 240V | 277V | 120V | 240V | 277V |
| WPTSR-1712129L-3CCT | 3000K | 0.50           | 0.25 | 0.22 | 0.67 | 0.33 | 0.29 | 0.82 | 0.41 | 0.35 | 0.95 | 0.47 | 0.41 |
|                     | 4000K | 0.49           | 0.25 | 0.21 | 0.65 | 0.33 | 0.28 | 0.80 | 0.40 | 0.34 | 0.92 | 0.46 | 0.40 |
|                     | 5000K | 0.50           | 0.25 | 0.22 | 0.67 | 0.33 | 0.29 | 0.82 | 0.41 | 0.35 | 0.95 | 0.46 | 0.41 |

## PHOTOMETRICS

## WPTSR-8654L-3CCT

## Luminaire Data

|                             |                                           |
|-----------------------------|-------------------------------------------|
| Description                 | Traditional Wall Pack<br>Field Selectable |
| Total Lumens                | 7,817                                     |
| Input Wattage               | 50                                        |
| Efficacy (lm/W)             | 155                                       |
| Max. Cd.                    | 3109.6 (360H, 49V)                        |
| IES Classification          | Type IV                                   |
| Longitudinal Classification | Very Short                                |

## Zonal Lumen Summary

| Zone     | Lumens | %Fixt  |
|----------|--------|--------|
| 0-30°    | 1,274  | 16.3%  |
| 0-60°    | 4,026  | 51.5%  |
| 0-80°    | 5,865  | 75.0%  |
| 80-90°   | 729    | 11.1%* |
| 0-90°    | 6,595  | 84.4%  |
| 90-110°  | 900    | 11.5%  |
| 110-180° | 0      | 0.0%   |
| 0-180°   | 7,817  | 100.0% |

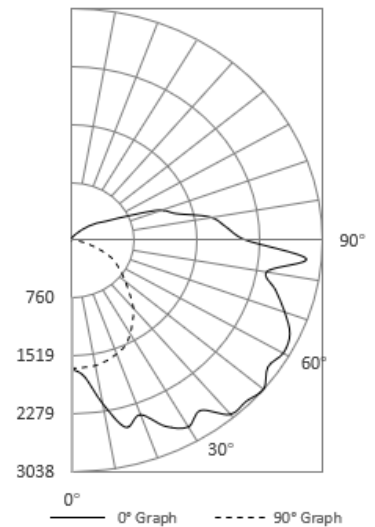
## Luminaire Classification Systems (LCS)

| LCS Zone     | Lumens       | %Lum          |
|--------------|--------------|---------------|
| FL 0-30      | 914          | 11.7%         |
| FM 30-60     | 2,450        | 31.3%         |
| FH 60-80     | 1,771        | 22.7%         |
| FVH 80-90    | 720          | 9.2%          |
| BL 0-30      | 361          | 4.6%          |
| BM 30-60     | 301          | 3.9%          |
| BH 60-80     | 69           | 0.9%          |
| BVH 80-90    | 10           | 0.1%          |
| UL 90-100    | 553          | 7.1%          |
| UH 100-180   | 670          | 8.6%          |
| <b>Total</b> | <b>7,817</b> | <b>100.0%</b> |
| BUG Rating   | B1-U4-G4     |               |

Photometrics calculated @4000k, and  
highest lumen setting

\* 80-90° glare zone is calculated by dividing the lumens in that zone by the  
lumen total in the 0-90° zone

## 180° Polar Graph



## WPTSR-1715129L-3CCT

## Luminaire Data

|                             |                                           |
|-----------------------------|-------------------------------------------|
| Description                 | Traditional Wall Pack<br>Field Selectable |
| Total Lumens                | 16,817                                    |
| Input Wattage               | 110                                       |
| Efficacy (lm/W)             | 152                                       |
| Max. Cd.                    | 6819.6 (360H, 38V)                        |
| IES Classification          | Type IV                                   |
| Longitudinal Classification | Very Short                                |

## Zonal Lumen Summary

| Zone     | Lumens | %Fixt  |
|----------|--------|--------|
| 0-30°    | 3,509  | 20.9%  |
| 0-60°    | 10,164 | 60.4%  |
| 0-80°    | 13,947 | 82.9%  |
| 80-90°   | 1,285  | 8.4%*  |
| 0-90°    | 15,231 | 90.6%  |
| 90-110°  | 1,227  | 7.3%   |
| 110-180° | 0      | 0.0%   |
| 0-180°   | 16,817 | 100.0% |

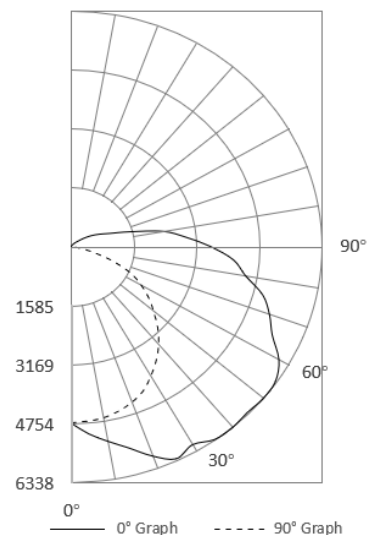
## Luminaire Classification Systems (LCS)

| LCS Zone     | Lumens        | %Lum          |
|--------------|---------------|---------------|
| FL 0-30      | 2,217         | 13.2%         |
| FM 30-60     | 5,537         | 32.9%         |
| FH 60-80     | 3,551         | 21.1%         |
| FVH 80-90    | 1,260         | 7.5%          |
| BL 0-30      | 1,292         | 7.7%          |
| BM 30-60     | 1,119         | 6.7%          |
| BH 60-80     | 231           | 1.4%          |
| BVH 80-90    | 24            | 0.1%          |
| UL 90-100    | 814           | 4.8%          |
| UH 100-180   | 771           | 4.6%          |
| <b>Total</b> | <b>16,817</b> | <b>100.0%</b> |
| BUG Rating   | B3-U4-G5      |               |

Photometric calculated at 4000k, and  
highest lumen output

\* 80-90° glare zone is calculated by dividing the lumens in that zone by the  
lumen total in the 0-90° zone

## 180° Polar Graph



## Adjustable Wall Pack – Lumen & Kelvin Field Selectable

### STANDARD



### FEATURES

- Field selectable 3000k (warm white), 4000k (neutral white), and 5000k (cool white) color temperatures.\*
- Adjustable housing – up to 90°.
- Long-life LEDs provide at least 70% of initial lumen output ( $L_{70}$ ) for  $\geq 146,000$  hours of operation, and at least 90% of initial lumen output ( $L_{90}$ ) for  $\geq 44,000$  hours of operation.\*\*
- LED chromaticity based on  $\leq 5$ -step ANSI quadrangles.
- LED color maintenance  $\leq 0.003$  chromaticity shift ( $\Delta u'v'$ ) over the initial 6,000 of operation.
- Provides a range of 3,000 to 10,700 nominal lumens and 132 to 154 nominal lumens per watt (lm/W).
- 0-10vdc dimming drivers are standard.
- Universal 120-277 AC voltage (50-60Hz) is standard.
- Power factor  $> 0.90$ .
- Total harmonic distortion  $< 20\%$ .
- Color rendering index ( $R_a$ )  $> 80$ .
- Cast aluminum housing with dark bronze, powder coat finish.
- Polycarbonate lens.
- Three  $\frac{1}{2}$ " NPT threaded openings.
- Easy installation in new construction or retrofit applications.

\* Contact factory for other color temperatures and lumen packages.

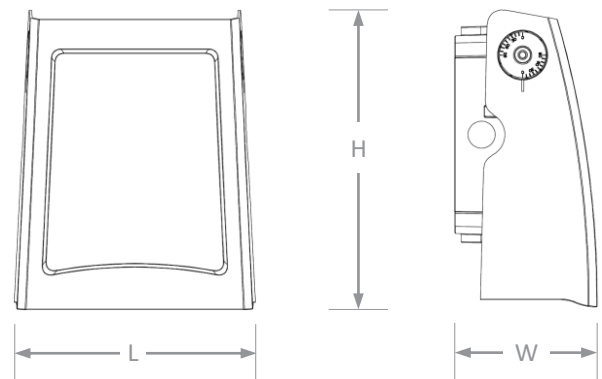
\*\*  $L_{70}$  &  $L_{90}$  hours are IES TM-21-11 calculated hours.



### WARRANTY & LISTINGS

- cULus listed for wet locations in ambient temperatures from  $-40^{\circ}\text{C}$  to  $50^{\circ}\text{C}$  ( $-40^{\circ}\text{F}$  to  $122^{\circ}\text{F}$ ).
- IP65 rated for ingress protection.
- DLC premium approved.
- Complies with FCC Part 15, class B.
- Surge protection = 4kV.
- 5-year warranty of all electronics and housing.

### DIMENSIONS



|               | 5L   | 10L  |
|---------------|------|------|
| Length– L     | 6.5" | 8.5" |
| Width – W     | 4"   | 5"   |
| Height – H    | 8"   | 11"  |
| Weight (lbs.) | 3    | 5    |

### ORDERING INFORMATION

Example: WPA-5L-LKFS

| Series | Nominal Lumen Output |               | Select |
|--------|----------------------|---------------|--------|
| WPA    | 5L                   | 5,000 lumens  | LKFS   |
|        | 10L                  | 10,000 lumens |        |

## ELECTRICAL DATA

| Series      | Measurements      | Low Lumens   |              |              | Mid Lumens   |              |              | High Lumens  |              |              |
|-------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|             |                   | 3000K        | 4000K        | 5000K        | 3000K        | 4000K        | 5000K        | 3000K        | 4000K        | 5000K        |
| WPA-5L-LKFS | Lumens            | 3044         | 3002         | 3307         | 3819         | 3842         | 4155         | 4646         | 5084         | 5049         |
|             | Watts             | 22           | 20           | 22           | 28           | 25           | 28           | 35           | 34           | 35           |
|             | Efficacy          | 142          | 154          | 154          | 137          | 151          | 149          | 133          | 151          | 145          |
|             | Input Current (A) | 120V = 0.18A | 120V = 0.17A | 120V = 0.18A | 120V = 0.23A | 120V = 0.21A | 120V = 0.23A | 120V = 0.29A | 120V = 0.28A | 120V = 0.29A |
|             |                   | 240V = 0.09A | 240V = 0.08A | 240V = 0.09A | 240V = 0.12A | 240V = 0.10A | 240V = 0.12A | 240V = 0.15A | 240V = 0.14A | 240V = 0.15A |
|             |                   | 277V = 0.08A | 277V = 0.07A | 277V = 0.08A | 277V = 0.10A | 277V = 0.09A | 277V = 0.10A | 277V = 0.13A | 277V = 0.12A | 277V = 0.13A |

| Series       | Measurements      | Low Lumens   |              |              | Mid Lumens   |              |              | High Lumens  |              |              |
|--------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|              |                   | 3000K        | 4000K        | 5000K        | 3000K        | 4000K        | 5000K        | 3000K        | 4000K        | 5000K        |
| WPA-10L-LKFS | Lumens            | 6536         | 7028         | 7107         | 8339         | 9032         | 9056         | 9746         | 10,734       | 10,578       |
|              | Watts             | 46           | 45           | 46           | 61           | 59           | 61           | 74           | 71           | 74           |
|              | Efficacy          | 142          | 157          | 154          | 137          | 153          | 148          | 132          | 150          | 142          |
|              | Input Current (A) | 120V = 0.60A | 120V = 0.38A | 120V = 0.60A | 120V = 0.78A | 120V = 0.49A | 120V = 0.78A | 120V = 0.97A | 120V = 0.94A | 120V = 0.97A |
|              |                   | 240V = 0.30A | 240V = 0.19A | 240V = 0.30A | 240V = 0.39A | 240V = 0.25A | 240V = 0.39A | 240V = 0.48A | 240V = 0.47A | 240V = 0.48A |
|              |                   | 277V = 0.26A | 277V = 0.16A | 277V = 0.26A | 277V = 0.34A | 277V = 0.21A | 277V = 0.34A | 277V = 0.42A | 277V = 0.41A | 277V = 0.42A |

## PHOTOMETRIC DATA

## WPA-5L-LKFS

## Luminaire Data

|                             |                                     |
|-----------------------------|-------------------------------------|
| Description                 | Adjustable Wall Pack<br>5L 5K -LKFS |
| Total Lumens                | 5,049                               |
| Input Wattage               | 35                                  |
| Efficacy (lm/W)             | 144                                 |
| Max. Cd.                    | 2634.18 (360H, 24V)                 |
| IES Classification          | Type II                             |
| Longitudinal Classification | Very Short                          |

## Zonal Lumen Summary

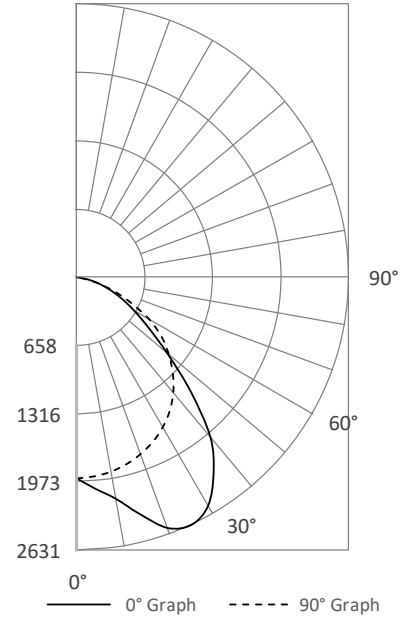
| Zone     | Lumens | %Fixt  |
|----------|--------|--------|
| 0-30°    | 1,597  | 31.6%  |
| 0-60°    | 4,386  | 86.9%  |
| 0-80°    | 5,018  | 99.4%  |
| 80-90°   | 31     | 0.6%*  |
| 0-90°    | 5,049  | 100.0% |
| 90-110°  | 0      | 0.0%   |
| 110-180° | 0      | 0.0%   |
| 0-180°   | 5,049  | 100.0% |

## Luminaire Classification Systems (LCS)

| LCS Zone   |         | Lumens   | %Lum  |
|------------|---------|----------|-------|
| FL         | 0-30    | 922      | 18.3% |
| FM         | 30-60   | 1,810    | 35.8% |
| FH         | 60-80   | 488      | 9.7%  |
| FVH        | 80-90   | 25       | 0.5%  |
| BL         | 0-30    | 674      | 13.4% |
| BM         | 30-60   | 979      | 19.4% |
| BH         | 60-80   | 144      | 2.9%  |
| BVH        | 80-90   | 6        | 0.1%  |
| UL         | 90-100  | 0        | 0.0%  |
| UH         | 100-180 | 0        | 0.0%  |
| Total      |         | 5,049    | 99.8% |
| BUG Rating |         | B2-U0-G1 |       |

\* 80-90° glare zone is calculated by dividing the lumens in that zone by the lumen total in the 0-90° zone

## 180° Polar Graph



## WPA-10L-LKFS

## Luminaire Data

|                             |                                       |
|-----------------------------|---------------------------------------|
| Description                 | Adjustable Wall Pack<br>10L 5K - LKFS |
| Total Lumens                | 10,578                                |
| Input Wattage               | 74                                    |
| Efficacy (lm/W)             | 143                                   |
| Max. Cd.                    | 5440.72 (360H, 23V)                   |
| IES Classification          | Type II                               |
| Longitudinal Classification | Very Short                            |

## Zonal Lumen Summary

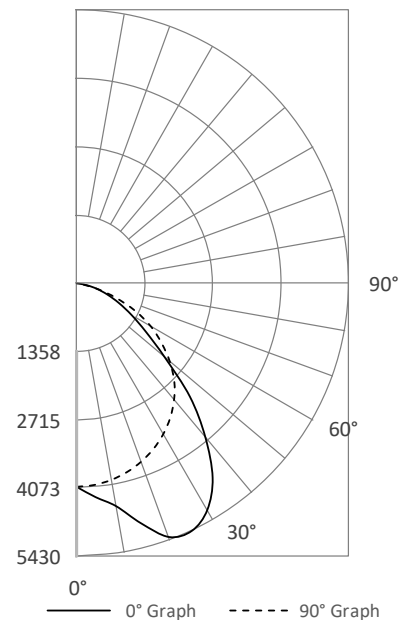
| Zone     | Lumens | %Fixt  |
|----------|--------|--------|
| 0-30°    | 3,356  | 31.7%  |
| 0-60°    | 9,188  | 86.9%  |
| 0-80°    | 10,510 | 99.4%  |
| 80-90°   | 68     | 0.6%*  |
| 0-90°    | 10,578 | 100.0% |
| 90-110°  | 0      | 0.0%   |
| 110-180° | 0      | 0.0%   |
| 0-180°   | 10,578 | 100.0% |

## Luminaire Classification Systems (LCS)

| LCS Zone   |         | Lumens   | %Lum   |
|------------|---------|----------|--------|
| FL         | 0-30    | 1,924    | 18.2%  |
| FM         | 30-60   | 3,727    | 35.2%  |
| FH         | 60-80   | 999      | 9.4%   |
| FVH        | 80-90   | 53       | 0.5%   |
| BL         | 0-30    | 1,432    | 13.5%  |
| BM         | 30-60   | 2,104    | 19.9%  |
| BH         | 60-80   | 324      | 3.1%   |
| BVH        | 80-90   | 14       | 0.1%   |
| UL         | 90-100  | 0        | 0.0%   |
| UH         | 100-180 | 0        | 0.0%   |
| Total      |         | 10,578   | 100.0% |
| BUG Rating |         | B3-U0-G1 |        |

\* 80-90° glare zone is calculated by dividing the lumens in that zone by the lumen total in the 0-90° zone

## 180° Polar Graph



## Full Cut Off Wall Pack – Lumen & Kelvin Field Selectable

### STANDARD



### FEATURES

- Field selectable 3000k (warm white), 4000k (neutral white), and 5000k (cool white) color temperatures.\*
- Long-life LEDs provide at least 70% of initial lumen output ( $L_{70}$ ) for  $\geq 136,000$  hours of operation, and at least 90% of initial lumen output ( $L_{90}$ ) for  $\geq 41,000$  hours of operation.\*
- LED chromaticity based on  $\leq 5$ -step ANSI quadrangles.
- LED color maintenance  $\leq 0.003$  chromaticity shift ( $\Delta u'v'$ ) over the initial 6,000 of operation.
- Provides a range of 5,200 to 16,800 nominal lumens and 130 to 161 nominal lumens per watt (lm/W).
- 0-10vdc dimming drivers are standard.
- Universal 120-277 AC voltage (50-60Hz) is standard.
- Power factor  $> 0.90$ .
- Total harmonic distortion  $< 20\%$ .
- Color rendering index ( $R_a$ )  $> 80$ .
- Cast aluminum housing with dark bronze, powder coat finish.
- Polycarbonate lens.
- Three  $\frac{1}{2}$ " NPT threaded openings.
- Easy installation in new construction or retrofit applications.

\* Contact factory for other color temperatures and lumen packages.

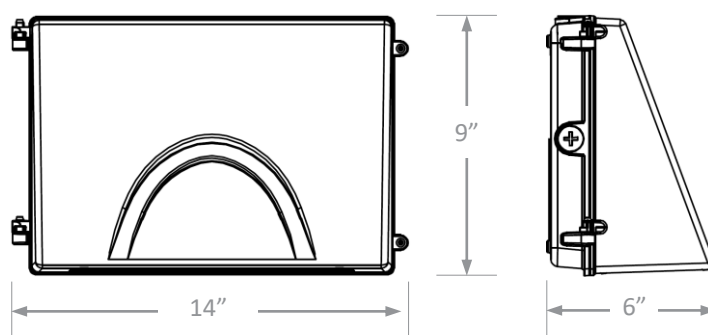
\*\*  $L_{70}$  &  $L_{90}$  hours are IES TM-21-11 calculated hours.



### WARRANTY & LISTINGS

- cULus listed for wet locations in ambient temperatures from  $-40^{\circ}\text{C}$  to  $45^{\circ}\text{C}$  ( $-40^{\circ}\text{F}$  to  $113^{\circ}\text{F}$ ).
- IP65 rated for ingress protection.
- DLC premium approved.
- Complies with FCC Part 15, class B.
- Surge protection = 4kV.
- 5-year warranty of all electronics and housing.

### DIMENSIONS



Weight: 8L = 5 lbs / 15L = 5 lbs

### ORDERING INFORMATION

Example: WPFC-15L-LKFS-P

| Series | Nominal Lumen Output |               | Select | Photocell |                  |
|--------|----------------------|---------------|--------|-----------|------------------|
| WPFC   | 8L                   | 8,000 lumens  | LKFS   | B         | Button photocell |
|        | 15L                  | 15,000 lumens |        | P         | Pencil photocell |
|        |                      |               |        | Blank     | No photocell     |

## ELECTRICAL DATA

| Series       | Measurements      | Low Lumens   |              |              | Mid Lumens   |              |              | High Lumens  |              |              |
|--------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|              |                   | 3000K        | 4000K        | 5000K        | 3000K        | 4000K        | 5000K        | 3000K        | 4000K        | 5000K        |
| WPFC-8L-LKFS | Lumens            | 5251         | 5526         | 5722         | 6659         | 7048         | 7198         | 7877         | 8682         | 8552         |
|              | Watts             | 36           | 35           | 36           | 48           | 46           | 48           | 59           | 57           | 59           |
|              | Efficacy          | 145          | 161          | 158          | 139          | 156          | 151          | 133          | 152          | 144          |
|              | Input Current (A) | 120V = 0.30A | 120V = 0.29A | 120V = 0.30A | 120V = 0.40A | 120V = 0.38A | 120V = 0.40A | 120V = 0.49A | 120V = 0.48A | 120V = 0.49A |
|              |                   | 240V = 0.15A | 240V = 0.15A | 240V = 0.15A | 240V = 0.20A | 240V = 0.19A | 240V = 0.20A | 240V = 0.25A | 240V = 0.24A | 240V = 0.25A |
|              |                   | 277V = 0.13A | 277V = 0.13A | 277V = 0.13A | 277V = 0.17A | 277V = 0.17A | 277V = 0.17A | 277V = 0.21A | 277V = 0.21A | 277V = 0.21A |

| Series        | Measurements      | Low Lumens   |              |              | Mid Lumens   |              |              | High Lumens  |              |              |
|---------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|               |                   | 3000K        | 4000K        | 5000K        | 3000K        | 4000K        | 5000K        | 3000K        | 4000K        | 5000K        |
| WPFC-15L-LKFS | Lumens            | 10,352       | 10,987       | 11,227       | 12,850       | 13,760       | 13,916       | 15,065       | 16,848       | 16,374       |
|               | Watts             | 72           | 71           | 72           | 94           | 92           | 94           | 116          | 113          | 116          |
|               | Efficacy          | 143          | 159          | 155          | 136          | 154          | 148          | 130          | 149          | 141          |
|               | Input Current (A) | 120V = 0.60A | 120V = 0.59A | 120V = 0.60A | 120V = 0.78A | 120V = 0.77A | 120V = 0.78A | 120V = 0.97A | 120V = 0.94A | 120V = 0.97A |
|               |                   | 240V = 0.30A | 240V = 0.30A | 240V = 0.30A | 240V = 0.39A | 240V = 0.38A | 240V = 0.39A | 240V = 0.48A | 240V = 0.47A | 240V = 0.48A |
|               |                   | 277V = 0.26A | 277V = 0.26A | 277V = 0.26A | 277V = 0.34A | 277V = 0.33A | 277V = 0.34A | 277V = 0.42A | 277V = 0.41A | 277V = 0.42A |

## PHOTOMETRIC DATA

### WPFC-8L-LKFS

#### Luminaire Data

|                             |                                        |
|-----------------------------|----------------------------------------|
| Description                 | Full Cut Off Wall Pack<br>8L 5K - LKFS |
| Total Lumens                | 8,552                                  |
| Input Wattage               | 59                                     |
| Efficacy (lm/W)             | 145                                    |
| Max. Cd.                    | 4088.23 (360H, 29V)                    |
| IES Classification          | Type II                                |
| Longitudinal Classification | Very Short                             |

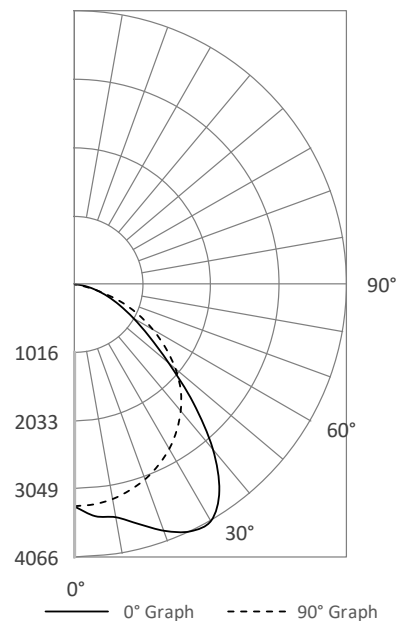
#### Zonal Lumen Summary

| Zone     | Lumens | %Fixt  |
|----------|--------|--------|
| 0-30°    | 2,710  | 31.7%  |
| 0-60°    | 7,458  | 87.2%  |
| 0-80°    | 8,493  | 99.3%  |
| 80-90°   | 59     | 0.7%*  |
| 0-90°    | 8,552  | 100.0% |
| 90-110°  | 0      | 0.0%   |
| 110-180° | 0      | 0.0%   |
| 0-180°   | 8,552  | 100.0% |

#### Luminaire Classification Systems (LCS)

| LCS Zone     | Lumens       | %Lum          |
|--------------|--------------|---------------|
| FL 0-30      | 1,491        | 17.4%         |
| FM 30-60     | 2,912        | 34.1%         |
| FH 60-80     | 775          | 9.1%          |
| FVH 80-90    | 49           | 0.6%          |
| BL 0-30      | 1,219        | 14.2%         |
| BM 30-60     | 1,836        | 21.5%         |
| BH 60-80     | 260          | 3.0%          |
| BVH 80-90    | 11           | 0.1%          |
| UL 90-100    | 0            | 0.0%          |
| UH 100-180   | 0            | 0.0%          |
| <b>Total</b> | <b>8,552</b> | <b>100.0%</b> |
| BUG Rating   | B3-U0-G1     |               |

#### 180° Polar Graph



\* 80-90° glare zone is calculated by dividing the lumens in that zone by the lumen total in the 0-90° zone

### WPFC-15L-LKFS

#### Luminaire Data

|                             |                                         |
|-----------------------------|-----------------------------------------|
| Description                 | Full Cut Off Wall Pack<br>15L 5K - LKFS |
| Total Lumens                | 16,374                                  |
| Input Wattage               | 116                                     |
| Efficacy (lm/W)             | 141                                     |
| Max. Cd.                    | 7769.7 (360H, 29V)                      |
| IES Classification          | Type II                                 |
| Longitudinal Classification | Very Short                              |

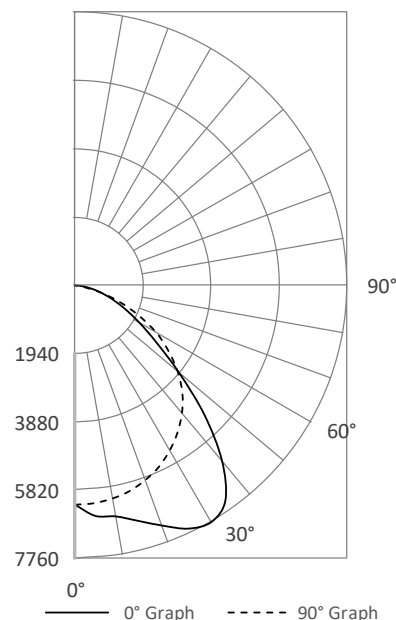
#### Zonal Lumen Summary

| Zone     | Lumens | %Fixt  |
|----------|--------|--------|
| 0-30°    | 5,099  | 31.1%  |
| 0-60°    | 14,192 | 86.7%  |
| 0-80°    | 16,244 | 99.2%  |
| 80-90°   | 130    | 0.8%*  |
| 0-90°    | 16,374 | 100.0% |
| 90-110°  | 0      | 0.0%   |
| 110-180° | 0      | 0.0%   |
| 0-180°   | 16,374 | 100.0% |

#### Luminaire Classification Systems (LCS)

| LCS Zone     | Lumens        | %Lum         |
|--------------|---------------|--------------|
| FL 0-30      | 2,800         | 17.1%        |
| FM 30-60     | 5,696         | 34.8%        |
| FH 60-80     | 1,582         | 9.7%         |
| FVH 80-90    | 114           | 0.7%         |
| BL 0-30      | 2,299         | 14.0%        |
| BM 30-60     | 3,398         | 20.8%        |
| BH 60-80     | 470           | 2.9%         |
| BVH 80-90    | 16            | 0.1%         |
| UL 90-100    | 0             | 0.0%         |
| UH 100-180   | 0             | 0.0%         |
| <b>Total</b> | <b>16,374</b> | <b>99.9%</b> |
| BUG Rating   | B3-U0-G2      |              |

#### 180° Polar Graph



\* 80-90° glare zone is calculated by dividing the lumens in that zone by the lumen total in the 0-90° zone

## Economy Wall Pack

### Lumen & Kelvin selectable

#### STANDARDS



#### HOUSING

- Premium powder-coat, Polycarbonate, Bronze housing.

#### ELECTRICAL

- Operating temperature (ambient): -30°C to 50°C (-22°F to 122°F).
- Universal 120-277 AC voltage (50-60Hz) is standard.
- 0-10V DC dimming drivers are standard.
- Integrated photocell is standard. Photocell can be enabled or disabled by switch.
- Input transient surge protection = 2kV.
- Power factor > 90.
- Total harmonic distortion < 20%.

#### OPTICAL SYSTEM

- Polycarbonate lens.
- Field selectable 3000K (warm white), 4000K (neutral white) and 5000K (cool white) color temperatures.\*
- Provides a range of 2,009 to 3,923 nominal lumens.\*
- Long-life LEDs provide 153,000 hours of operation with at least 70% of initial lumen output (L70), and 46,000 hours with at least 90% of initial lumen output (L90).\*\*
- LED chromaticity based on < 6-step ANSI quadrangles.
- LED color maintenance < -0.0021 chromaticity shift ( $\Delta u'v'$ ) over the initial 6,000 hours of operation.
- Color Rendering Index > 80.

\* Default kelvin temperature 4000k and highest lumen output.

\*\* L70 & L90 hours are IES TM-21-11 calculated hours.



#### MOUNTING

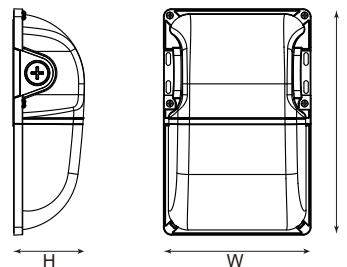
- Wall mounting kit.

#### CODE COMPLIANCE

- cETLus listed for wet locations.
- DLC premium listed
- Complies with FCC Part 15, class A.
- IP65 rated for ingress protection.
- IK08 rated for impact protection.

#### WARRANTY

- 5 year warranty on all electronics and housing.



| Model #       | L (in) | W (in) | H (in) | Weight (lbs) |
|---------------|--------|--------|--------|--------------|
| WPE-432L-3CCT | 9.06   | 5.91   | 2.87   | 1.48         |

#### ORDERING INFORMATION

Example: WPE-432L-3CCT

| Model | Nominal Lumen Output<br>(selectable) |                        | Kelvin<br>(selectable) |                   |
|-------|--------------------------------------|------------------------|------------------------|-------------------|
| WPE   | 432L                                 | 4,000/ 3,000/ 2,000 lm | 3CCT                   | 3000/ 4000/ 5000K |

## COMPATIBLE DIMMERS AND CONTROLS

| Manufacturer  | Model Number | Dimmer Range | Load Switching Capacity |
|---------------|--------------|--------------|-------------------------|
| Best Lighting | DWS-010V-T   | 10%-100%     | 600W                    |
| Best Lighting | DWS-010V-D   | 10%-100%     | 600W                    |
| Leviton       | IP710-LFZ    | 10%-100%     | 1200W                   |
| Lutron        | DVSTV        | 10%-100%     | 450W                    |

## LUMEN TABLES

| Series        | Measurements | Low Lumen |        |        | Mid Lumen |        |        | High Lumen |        |        |
|---------------|--------------|-----------|--------|--------|-----------|--------|--------|------------|--------|--------|
|               |              | 3000K     | 4000K  | 5000K  | 3000K     | 4000K  | 5000K  | 3000K      | 4000K  | 5000K  |
| WPE-432L-3CCT | Lumens       | 2,009     | 2,081  | 2,072  | 2,659     | 2,788  | 2,724  | 3,802      | 3,948  | 3,923  |
|               | Watts        | 14.4      | 14.05  | 14.58  | 19.27     | 18.73  | 19.07  | 28.13      | 27.47  | 28.64  |
|               | Efficacy     | 139.51    | 148.11 | 142.11 | 137.99    | 148.85 | 142.84 | 135.16     | 143.72 | 136.98 |

## ELECTRICAL DATA

| Series        | CCT   | Input Amps (A) |      |      |           |      |      |            |      |      |
|---------------|-------|----------------|------|------|-----------|------|------|------------|------|------|
|               |       | Low Lumen      |      |      | Mid Lumen |      |      | High Lumen |      |      |
|               |       | 120V           | 240V | 277V | 120V      | 240V | 277V | 120V       | 240V | 277V |
| WPE-432L-3CCT | 3000K | 0.12           | 0.06 | 0.05 | 0.16      | 0.08 | 0.07 | 0.23       | 0.12 | 0.10 |
|               | 4000K | 0.12           | 0.06 | 0.05 | 0.16      | 0.08 | 0.07 | 0.23       | 0.11 | 0.10 |
|               | 5000K | 0.12           | 0.06 | 0.05 | 0.16      | 0.08 | 0.07 | 0.24       | 0.12 | 0.10 |

## PHOTOMETRICS

## WPE-432L-5CCT

**Luminaire Data**

|                             |                                           |
|-----------------------------|-------------------------------------------|
| Description                 | Economy Wall Pack<br>CCT and Lumen Select |
| Total Lumens                | 3,325                                     |
| Input Wattage               | 28                                        |
| Efficacy (lm/W)             | 118                                       |
| Max. Cd.                    | 1405.632 (360H, 30V)                      |
| IES Classification          | Type IV                                   |
| Longitudinal Classification | Very Short                                |

**Zonal Lumen Summary**

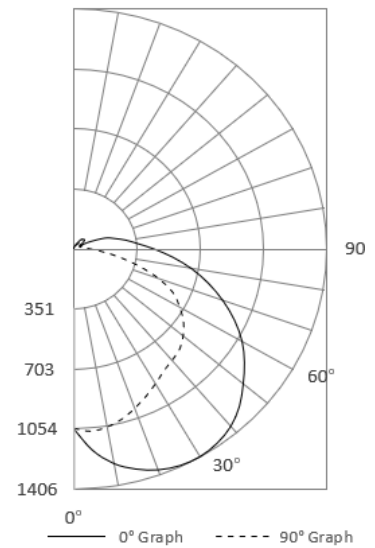
| Zone     | Lumens | %Fixt  |
|----------|--------|--------|
| 0-30°    | 659    | 19.8%  |
| 0-60°    | 1,995  | 60.0%  |
| 0-80°    | 2,731  | 82.1%  |
| 80-90°   | 214    | 7.3%*  |
| 0-90°    | 2,946  | 88.6%  |
| 90-110°  | 228    | 6.8%   |
| 110-180° | 0      | 0.0%   |
| 0-180°   | 3,325  | 100.0% |

**Luminaire Classification Systems (LCS)**

| LCS Zone     | Lumens       | %Lum         |
|--------------|--------------|--------------|
| FL 0-30      | 452          | 11.9%        |
| FM 30-60     | 1,108        | 29.1%        |
| FH 60-80     | 638          | 16.8%        |
| FVH 80-90    | 190          | 5.0%         |
| BL 0-30      | 206          | 5.4%         |
| BM 30-60     | 228          | 6.0%         |
| BH 60-80     | 98           | 2.5%         |
| BVH 80-90    | 24           | 0.6%         |
| UL 90-100    | 139          | 3.7%         |
| UH 100-180   | 240          | 6.3%         |
| <b>Total</b> | <b>3,325</b> | <b>87.5%</b> |
| BUG Rating   | B1-U3-G2     |              |

*Photometrics calculated at 3000k, and  
highest lumen output*

\* 80-90° glare zone is calculated by dividing the lumens in that zone by the lumen total in the 0-90° zone

**Polar Graph**

## Half Moon Full Cutoff Wall Pack

### Lumen & Kelvin selectable

#### STANDARDS



#### HOUSING

- Premium powder-coat, die cast aluminum, Bronze housing.

#### ELECTRICAL

- Operating temperature (ambient): -40°C to 50°C (-40°F to 122°F).
- Universal 120-277 AC voltage (50-60Hz) is standard.
- 0-10V DC dimming drivers are standard.
- Integrated photocell is standard. Photocell can be enabled or disabled by switch.
- Input transient surge protection = 4kV for WPHM-875L-3CCT
- Input transient surge protection = 6kV for WPHM-13108L-3CCT
- Power factor > 90.
- Total harmonic distortion < 20%.

#### OPTICAL SYSTEM

- Polycarbonate lens.
- Field selectable 3000K (warm white), 4000K (neutral white) and 5000K (cool white) color temperatures.\*
- WPHM-875L-3CCT provides a range of 5,483 to 8,352 nominal lumens.\*
- WPHM-13108L-3CCT provides a range of 8,165 to 13,690 nominal lumens.\*
- Long-life LEDs provide 160,000 hours of operation with at least 70% of initial lumen output (L70), and 48,000 hours with at least 90% of initial lumen output (L90).\*\*
- LED chromaticity based on < 6-step ANSI quadrangles.
- LED color maintenance < 0.0031 chromaticity shift ( $\Delta u'v'$ ) over the initial 6,000 hours of operation.
- Color Rendering Index > 80.

\* Default kelvin temperature 4000k and highest lumen output.

\*\* L70 & L90 hours are IES TM-21-11 calculated hours.



#### MOUNTING

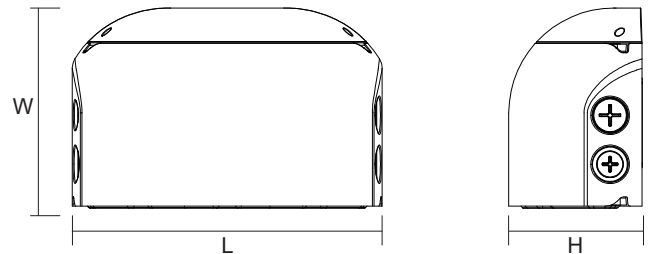
- Wall mounting kit.

#### CODE COMPLIANCE

- cULus listed for wet locations.
- DLC premium listed
- Complies with FCC Part 15, class A.
- IP65 rated for ingress protection.
- IK08 rated for impact protection.

#### WARRANTY

- 5 year warranty on all electronics and housing.



| Model #          | L (in) | W (in) | H (in) | Weight (lbs) |
|------------------|--------|--------|--------|--------------|
| WPHM-875L-3CCT   | 10.46  | 6.76   | 4.51   | 3.8          |
| WPHM-13108L-3CCT | 13.98  | 8.72   | 6.04   | 6.41         |

#### ORDERING INFORMATION

Example: WPHM-875L-3CCT

| Model | Nominal Lumen Output (selectable) |                          | Kelvin (selectable) |                   |
|-------|-----------------------------------|--------------------------|---------------------|-------------------|
|       |                                   |                          |                     |                   |
| WPHM  | 875L                              | 8,000/ 7,000/ 5,000 lm   | 3CCT                | 3000/ 4000/ 5000K |
|       | 13108L                            | 13,000/ 10,000/ 8,000 lm |                     |                   |

## LUMEN TABLES

| Series         | Measurements | Low Lumen |        |        | Mid Lumen |        |        | High Lumen |        |        |
|----------------|--------------|-----------|--------|--------|-----------|--------|--------|------------|--------|--------|
|                |              | 3000K     | 4000K  | 5000K  | 3000K     | 4000K  | 5000K  | 3000K      | 4000K  | 5000K  |
| WPHM-875L-3CCT | Lumens       | 5,483     | 5,896  | 5,753  | 6,531     | 7,142  | 6,848  | 7,492      | 8,352  | 7,863  |
|                | Watts        | 40.94     | 39.15  | 40.74  | 50.94     | 48.52  | 50.53  | 61.15      | 58.17  | 68.84  |
|                | Efficacy     | 133.93    | 150.60 | 141.21 | 128.21    | 147.20 | 135.52 | 122.52     | 143.58 | 114.22 |

| Series           | Measurements | Low Lumen |        |        | Mid Lumen |        |        | High Lumen |        |        |
|------------------|--------------|-----------|--------|--------|-----------|--------|--------|------------|--------|--------|
|                  |              | 3000K     | 4000K  | 5000K  | 3000K     | 4000K  | 5000K  | 3000K      | 4000K  | 5000K  |
| WPHM-13108L-3CCT | Lumens       | 8,165     | 8,839  | 8,627  | 10,420    | 11,438 | 10,960 | 12,233     | 13,690 | 12,876 |
|                  | Watts        | 60.04     | 58.07  | 60.1   | 80.93     | 77.16  | 80.45  | 100.61     | 95.34  | 100.06 |
|                  | Efficacy     | 135.99    | 152.21 | 143.54 | 128.75    | 148.24 | 136.23 | 121.59     | 143.59 | 128.68 |

## ELECTRICAL DATA

| Series         | CCT   | Input Amps (A) |      |      |           |      |      |            |      |      |
|----------------|-------|----------------|------|------|-----------|------|------|------------|------|------|
|                |       | Low Lumen      |      |      | Mid Lumen |      |      | High Lumen |      |      |
|                |       | 120V           | 240V | 277V | 120V      | 240V | 277V | 120V       | 240V | 277V |
| WPHM-875L-3CCT | 3000K | 0.34           | 0.17 | 0.15 | 0.42      | 0.21 | 0.18 | 0.51       | 0.25 | 0.22 |
|                | 4000K | 0.33           | 0.16 | 0.14 | 0.40      | 0.20 | 0.18 | 0.48       | 0.24 | 0.21 |
|                | 5000K | 0.34           | 0.17 | 0.15 | 0.42      | 0.21 | 0.18 | 0.57       | 0.29 | 0.25 |

| Series           | CCT   | Input Amps (A) |      |      |           |      |      |            |      |      |
|------------------|-------|----------------|------|------|-----------|------|------|------------|------|------|
|                  |       | Low Lumen      |      |      | Mid Lumen |      |      | High Lumen |      |      |
|                  |       | 120V           | 240V | 277V | 120V      | 240V | 277V | 120V       | 240V | 277V |
| WPHM-13108L-3CCT | 3000K | 0.50           | 0.25 | 0.22 | 0.67      | 0.34 | 0.29 | 0.84       | 0.42 | 0.36 |
|                  | 4000K | 0.48           | 0.24 | 0.21 | 0.64      | 0.32 | 0.28 | 0.79       | 0.40 | 0.34 |
|                  | 5000K | 0.50           | 0.25 | 0.22 | 0.67      | 0.34 | 0.29 | 0.83       | 0.42 | 0.36 |

## PHOTOMETRICS

### WPHM-875L-3CCT

#### Luminaire Data

|                             |                                         |
|-----------------------------|-----------------------------------------|
| Description                 | Half Moon Wall Pack<br>Field Selectable |
| Total Lumens                | 8,352                                   |
| Input Wattage               | 58                                      |
| Efficacy (lm/W)             | 144                                     |
| Max. Cd.                    | 4702.6 (112.5H, 3V)                     |
| IES Classification          | N.A.                                    |
| Longitudinal Classification | N.A.                                    |

#### Zonal Lumen Summary

| Zone     | Lumens | %Fixt  |
|----------|--------|--------|
| 0-30°    | 3,323  | 39.8%  |
| 0-60°    | 7,409  | 88.7%  |
| 0-80°    | 8,295  | 99.3%  |
| 80-90°   | 57     | 0.7%*  |
| 0-90°    | 8,352  | 100.0% |
| 90-110°  | 0      | 0.0%   |
| 110-180° | 0      | 0.0%   |
| 0-180°   | 8,352  | 100.0% |

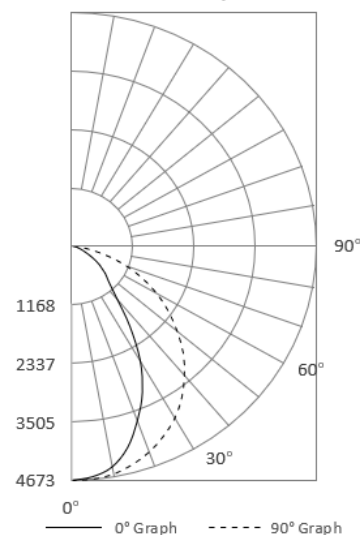
#### Luminaire Classification Systems (LCS)

| LCS Zone     | Lumens       | %Lum          |
|--------------|--------------|---------------|
| FL 0-30      | 1,675        | 20.1%         |
| FM 30-60     | 2,053        | 24.6%         |
| FH 60-80     | 425          | 5.1%          |
| FVH 80-90    | 24           | 0.3%          |
| BL 0-30      | 1,648        | 19.7%         |
| BM 30-60     | 2,033        | 24.3%         |
| BH 60-80     | 462          | 5.5%          |
| BVH 80-90    | 33           | 0.4%          |
| UL 90-100    | 0            | 0.0%          |
| UH 100-180   | 0            | 0.0%          |
| <b>Total</b> | <b>8,352</b> | <b>100.0%</b> |
| BUG Rating   | B3-U0-G1     |               |

Photometrics calculated @4000k, and  
highest lumen setting

\* 80-90° glare zone is calculated by dividing the lumens in that zone by the lumen total in the 0-90° zone

#### 180° Polar Graph



### WPHM-13108L-3CCT

#### Luminaire Data

|                             |                                         |
|-----------------------------|-----------------------------------------|
| Description                 | Half Moon Wall Pack<br>Field Selectable |
| Total Lumens                | 13,690                                  |
| Input Wattage               | 95                                      |
| Efficacy (lm/W)             | 144                                     |
| Max. Cd.                    | 7864.8 (202.5H, 2V)                     |
| IES Classification          | N.A.                                    |
| Longitudinal Classification | N.A.                                    |

#### Zonal Lumen Summary

| Zone     | Lumens | %Fixt  |
|----------|--------|--------|
| 0-30°    | 5,540  | 40.5%  |
| 0-60°    | 12,153 | 88.8%  |
| 0-80°    | 13,598 | 99.3%  |
| 80-90°   | 92     | 0.7%*  |
| 0-90°    | 13,690 | 100.0% |
| 90-110°  | 0      | 0.0%   |
| 110-180° | 0      | 0.0%   |
| 0-180°   | 13,690 | 100.0% |

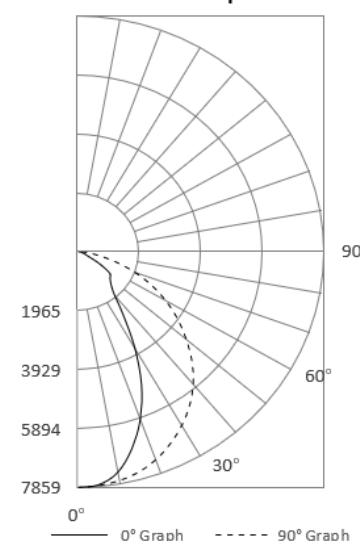
#### Luminaire Classification Systems (LCS)

| LCS Zone     | Lumens        | %Lum          |
|--------------|---------------|---------------|
| FL 0-30      | 2,729         | 19.9%         |
| FM 30-60     | 3,182         | 23.2%         |
| FH 60-80     | 671           | 4.9%          |
| FVH 80-90    | 39            | 0.3%          |
| BL 0-30      | 2,811         | 20.5%         |
| BM 30-60     | 3,430         | 25.1%         |
| BH 60-80     | 775           | 5.7%          |
| BVH 80-90    | 53            | 0.4%          |
| UL 90-100    | 0             | 0.0%          |
| UH 100-180   | 0             | 0.0%          |
| <b>Total</b> | <b>13,690</b> | <b>100.0%</b> |
| BUG Rating   | B4-U0-G2      |               |

Photometrics calculated @4000k, and  
highest lumen setting

\* 80-90° glare zone is calculated by dividing the lumens in that zone by the lumen total in the 0-90° zone

#### 180° Polar Graph

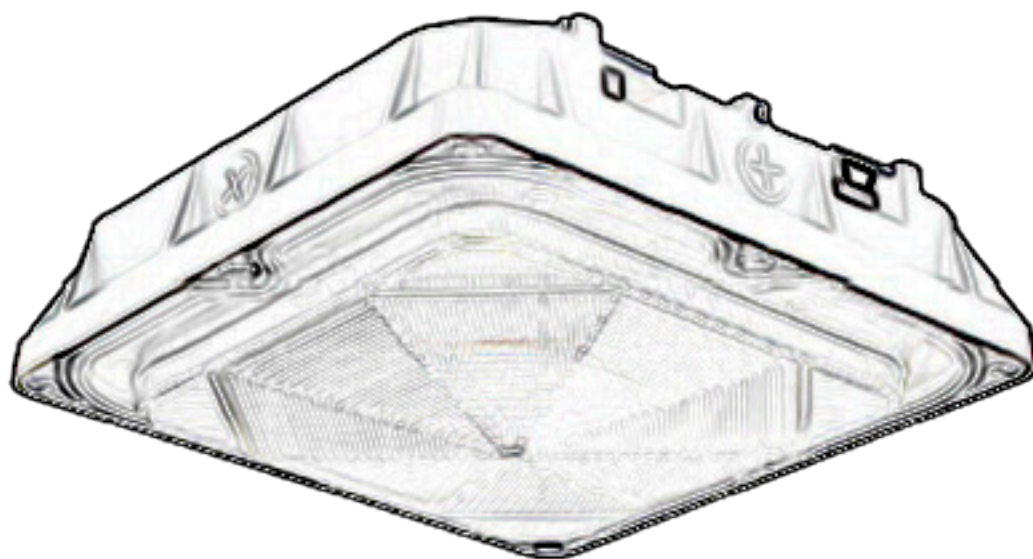


## COMPATIBLE DIMMERS AND CONTROLS

| Manufacturer  | Model Number | Dimmer Range | Load Switching Capacity |
|---------------|--------------|--------------|-------------------------|
| Best Lighting | DWS-010V-T   | 10%-100%     | 600W                    |
| Best Lighting | DWS-010V-D   | 10%-100%     | 600W                    |
| Leviton       | IP710-LFZ    | 10%-100%     | 1200W                   |
| Lutron        | DVSTV        | 10%-100%     | 450W                    |

# Canopy

Outdoor USA



## Canopy Luminaire High Lumen



## STANDARDS



## HOUSING

- Premium powder-coat, die cast aluminum, White housing.

## ELECTRICAL

- Operating temperature (ambient): -40°C to 45°C (-40°F to 113°F).
- Universal 120-277 AC voltage (50-60Hz) is standard.
- 0-10V DC dimming drivers are standard.
- Input transient surge protection = 6kV.
- PF > 0.9; THD < 20%.

## OPTICAL SYSTEM

- Polycarbonate lens.
- 5000K (cool white) color temperatures.\*
- Provides a range of 19,000 to 27,000 nominal lumens.\*
- Long-life LEDs provide 173,000 hours of operation with at least 70% of initial lumen output (L70), and 52,000 hours with at least 90% of initial lumen output (L90).\*\*
- LED chromaticity based on < 6-step ANSI quadrangles.
- Color Rendering Index > 80.

\* Default kelvin temperature 4000k and highest lumen output.

\*\* L70 & L90 hours are IES TM-21-11 calculated hours.

## MOUNTING

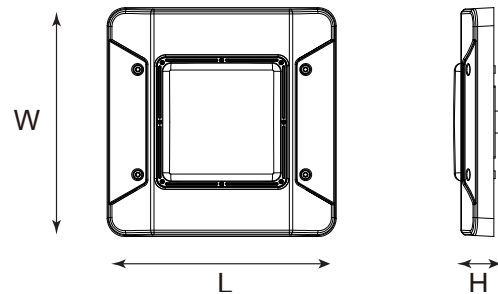
- Surface mounting.

## CODE COMPLIANCE

- cULus listed for wet locations.
- Complies with FCC Part 15, class A.
- IP65 rated for ingress protection.

## WARRANTY

- 5 year warranty on all electronics and housing.



| Model #         | L (in) | W (in) | H (in) | Weight (lbs) |
|-----------------|--------|--------|--------|--------------|
| CPHL-272219L-5K | 15     | 15     | 3.26   | 10.83        |

## ORDERING INFORMATION

Example: CPHL-272219L-5K

| Model | Nominal Lumen Output<br>(selectable) |                           | Kelvin<br>(selectable) |       |
|-------|--------------------------------------|---------------------------|------------------------|-------|
| CPHL  | 272219L                              | 27,000/ 22,000/ 19,000 lm | 5K                     | 5000K |

## LUMEN TABLES

| Series          | Measurements | Low Lumen | Mid Lumen | High Lumen |
|-----------------|--------------|-----------|-----------|------------|
|                 |              | 5000K     | 5000K     | 5000K      |
| CPHL-272219L-5K | Lumens       | 19,553    | 22,366    | 27,385     |
|                 | Watt         | 120.2     | 139.4     | 177.3      |
|                 | Efficacy     | 162.67    | 160.44    | 154.46     |

## ELECTRICAL DATA

| Series          | CCT   | Input Amps (A) |      |      |           |      |      |            |      |      |
|-----------------|-------|----------------|------|------|-----------|------|------|------------|------|------|
|                 |       | Low Lumen      |      |      | Mid Lumen |      |      | High Lumen |      |      |
|                 |       | 120V           | 240V | 277V | 120V      | 240V | 277V | 120V       | 240V | 277V |
| CPHL-272219L-5K | 5000K | 1.0            | 0.5  | 0.43 | 1.16      | 0.58 | 0.50 | 1.48       | 0.74 | 0.64 |

## PHOTOMETRICS

## CPHL-272219L-5K

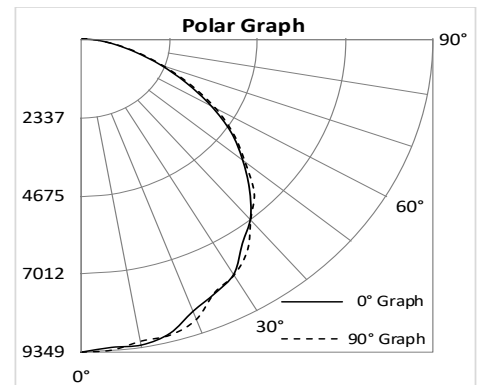
## Luminaire Data

|                                |                                           |
|--------------------------------|-------------------------------------------|
| Description                    | High Lumen Canopy<br>5K, Lumen Selectable |
| Total Lumens                   | 27,385                                    |
| Input Wattage                  | 177                                       |
| Efficacy (lm/W)                | 154                                       |
| Spacing Criterion<br>(0-180°)  | 1.28                                      |
| Spacing Criterion<br>(90-270°) | 1.3                                       |

Photometric calculated at  
highest lumen setting.

## Zonal Lumen Summary

| Zone    | Lumens | %Fixt  |
|---------|--------|--------|
| 0-20°   | 3,425  | 12.5%  |
| 0-30°   | 7,319  | 26.7%  |
| 0-40°   | 12,071 | 44.1%  |
| 20-50°  | 13,579 | 49.6%  |
| 40-70°  | 12,464 | 45.5%  |
| 0-60°   | 21,364 | 78.0%  |
| 0-80°   | 26,280 | 96.0%  |
| 0-90°   | 26,964 | 98.5%  |
| 90-180° | 421    | 1.5%   |
| 0-180°  | 27,385 | 100.0% |



## COMPATIBLE DIMMERS AND CONTROLS

| Manufacturer  | Model Number | Dimmer Range | Load Switching Capacity |
|---------------|--------------|--------------|-------------------------|
| Best Lighting | DWS-010V-T   | 10%-100%     | 600W                    |
| Best Lighting | DWS-010V-D   | 10%-100%     | 600W                    |
| Leviton       | IP710-LFZ    | 10%-100%     | 1200W                   |
| Lutron        | DVSTV        | 10%-100%     | 450W                    |

## Round Canopy Luminaire Sensor Ready



### STANDARDS



### HOUSING

- Premium powder-coat, die cast aluminum, Bronze or White housing.

### ELECTRICAL

- Operating temperature (ambient): -40°C to 45°C (-40°F to 113°F).
- Universal 120-277 AC voltage (50-60Hz) is standard.
- 0-10V DC dimming drivers are standard.
- Integrated photocell is standard. Photocell can be enabled or disabled by switch.
- Input transient surge protection = 6kV.
- PF > 0.9; THD < 20%.

### OPTICAL SYSTEM

- Polycarbonate lens.
- Field selectable 3000K (warm white), 4000K (neutral white) and 5000K (cool white) color temperatures.\*
- Five lumens selectable to provide a range of 3,171 to 11,682 nominal lumens.\*
- Long-life LEDs provide 167,000 hours of operation with at least 70% of initial lumen output (L70), and 51,000 hours with at least 90% of initial lumen output (L90).\*\*
- Beam angle 135°.
- Screw in sensor ready. Sensor and remote control sold separately. Sensors equipped with 5 turn dials for remote free programming. Optional remote control required to change factory sensor settings.
- LED chromaticity based on < 6-step ANSI quadrangles.
- LED color maintenance < 0.0023 chromaticity shift ( $\Delta u'v'$ ) over the initial 6,000 hours of operation.
- Color Rendering Index > 80.

\* Default kelvin temperature 4000K and highest lumen output.

\*\* L70 & L90 hours are IES TM-21-11 calculated hours.

### MOUNTING

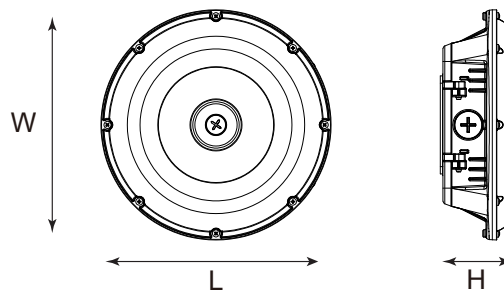
- Surface mounting.
- Optional Pendant mounting, using 3/4" threaded conduit.

### CODE COMPLIANCE

- cULus listed for wet locations.
- DLC premium listed
- Complies with FCC Part 15, class A.
- IP65 rated for ingress protection.
- IK10 rated for impact protection.

### WARRANTY

- 5 year warranty on all electronics and housing.



| Model #             | L (in) | W (in) | H (in) | Weight (lbs) |
|---------------------|--------|--------|--------|--------------|
| CPRSR-1110863L-3CCT | 10.01  | 10.01  | 3.06   | 4.93         |

### ORDERING INFORMATION

Example: CPRSR-1110863L-3CCT-WHT

| Model | Nominal Lumen Output<br>(selectable) |                                        | Kelvin<br>(selectable) |                   | Housing Color           |
|-------|--------------------------------------|----------------------------------------|------------------------|-------------------|-------------------------|
| CPRSR | 1110863L                             | 11,000/ 10,000/ 8,000/ 6,000/ 3,000 lm | 3CCT                   | 3000/ 4000/ 5000K | BRZ Bronze<br>WHT White |

## ACCESSORIES (ORDER SEPARATELY)

**Sensor**

- HD09VR-PH5-1 = Passive infrared sensor - maximum mounting height = 39 FT
- HD09VR-MH5-1 = Microwave step-dimming sensor - maximum mounting height = 49 FT
- HD05R = Remote control for HD09VR series sensors

**\*HD09VR series has 5-dial setting capability.**

**Factory settings or Sensor :** detection a ea =100%, hold time = 5 sec, tand-by period = 0 sec, stand-by dimming level = 10%, daylight threshold = disabled, features turn dials for programming without remote.

## LUMEN TABLES

| Series              | Measurements | 11L Setting |        |        | 10L Setting |        |        | 8L Setting |        |        |
|---------------------|--------------|-------------|--------|--------|-------------|--------|--------|------------|--------|--------|
|                     |              | 3000K       | 4000K  | 5000K  | 3000K       | 4000K  | 5000K  | 3000K      | 4000K  | 5000K  |
| CPRSR-1110863L-3CCT | Lumens       | 10,929      | 11,682 | 11,423 | 9,544       | 10,134 | 10,051 | 8,458      | 8,862  | 8,844  |
|                     | Watt         | 74.31       | 71.49  | 74.35  | 63.29       | 61.09  | 63.59  | 54.62      | 52.71  | 54.66  |
|                     | Efficacy     | 147.07      | 163.41 | 153.64 | 150.80      | 165.89 | 158.06 | 154.85     | 168.13 | 161.80 |

| Series              | Measurements | 6L Setting |        |        | 3L Setting |        |        |
|---------------------|--------------|------------|--------|--------|------------|--------|--------|
|                     |              | 3000K      | 4000K  | 5000K  | 3000K      | 4000K  | 5000K  |
| CPRSR-1110863L-3CCT | Lumens       | 6,319      | 6,594  | 6,669  | 3,171      | 3,221  | 3,356  |
|                     | Watt         | 39.65      | 38.74  | 39.87  | 19.53      | 19.28  | 19.63  |
|                     | Efficacy     | 159.37     | 170.21 | 167.27 | 162.37     | 167.06 | 170.96 |

## ELECTRICAL DATA

| Series              | CCT   | Input Amps (A) |      |      |             |      |      |            |      |      |            |      |      |            |      |      |
|---------------------|-------|----------------|------|------|-------------|------|------|------------|------|------|------------|------|------|------------|------|------|
|                     |       | 11L Setting    |      |      | 10L Setting |      |      | 8L Setting |      |      | 6L Setting |      |      | 3L Setting |      |      |
|                     |       | 120V           | 240V | 277V | 120V        | 240V | 277V | 120V       | 240V | 277V | 120V       | 240V | 277V | 120V       | 240V | 277V |
| CPRSR-1110863L-3CCT | 3000K | 0.62           | 0.31 | 0.27 | 0.53        | 0.26 | 0.23 | 0.46       | 0.23 | 0.20 | 0.33       | 0.17 | 0.14 | 0.16       | 0.08 | 0.07 |
|                     | 4000K | 0.60           | 0.30 | 0.26 | 0.51        | 0.25 | 0.22 | 0.44       | 0.22 | 0.19 | 0.32       | 0.16 | 0.14 | 0.16       | 0.08 | 0.07 |
|                     | 5000K | 0.62           | 0.31 | 0.27 | 0.53        | 0.26 | 0.23 | 0.46       | 0.23 | 0.20 | 0.33       | 0.17 | 0.14 | 0.16       | 0.08 | 0.07 |

## PHOTOMETRICS

CPRSR-1110863L-3CCT

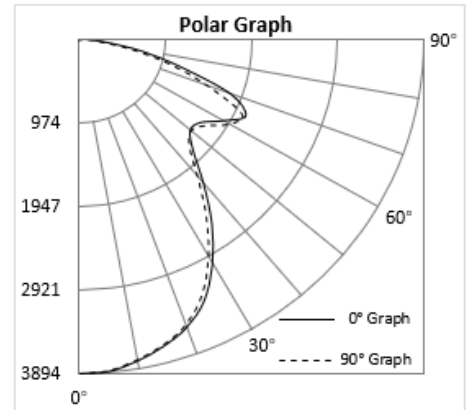
**Luminaire Data**

|                                |                                              |
|--------------------------------|----------------------------------------------|
| Description                    | Canopy, Sensor Ready<br>CCT and Lumen Select |
| Total Lumens                   | 11,682                                       |
| Input Wattage                  | 71                                           |
| Efficacy (lm/W)                | 163                                          |
| Spacing Criterion<br>(0-180°)  | 1.18                                         |
| Spacing Criterion<br>(90-270°) | 1.14                                         |

*Photometric calculated at  
4000k and highest lumen  
setting.*

**Zonal Lumen Summary**

| Zone    | Lumens | %Fixt  |
|---------|--------|--------|
| 0-20°   | 1,417  | 12.1%  |
| 0-30°   | 2,964  | 25.4%  |
| 0-40°   | 4,617  | 39.5%  |
| 20-50°  | 4,656  | 39.9%  |
| 40-70°  | 4,988  | 42.7%  |
| 0-60°   | 7,612  | 65.2%  |
| 0-80°   | 10,944 | 93.7%  |
| 0-90°   | 11,410 | 97.7%  |
| 90-180° | 272    | 2.3%   |
| 0-180°  | 11,682 | 100.0% |



## COMPATIBLE DIMMERS AND CONTROLS

| Manufacturer  | Model Number | Dimmer Range | Load Switching Capacity |
|---------------|--------------|--------------|-------------------------|
| Best Lighting | DWS-010V-T   | 10%-100%     | 600W                    |
| Best Lighting | DWS-010V-D   | 10%-100%     | 600W                    |
| Leviton       | IP710-LFZ    | 10%-100%     | 1200W                   |
| Lutron        | DVSTV        | 10%-100%     | 450W                    |

## Canopy Luminaire Sensor Ready



## STANDARDS



## HOUSING

- Premium powder-coat, die cast aluminum, Bronze or White housing.

## ELECTRICAL

- Operating temperature (ambient): -40°C to 45°C (-40°F to 113°F).
- Universal 120-277 AC voltage (50-60Hz) is standard.
- 0-10V DC dimming drivers are standard.
- Integrated photocell is standard. Photocell can be enabled or disabled by switch.
- Input transient surge protection = 6kV.
- PF > 0.9; THD < 20%.

## OPTICAL SYSTEM

- Polycarbonate lens.
- Field selectable 3000K (warm white), 4000K (neutral white) and 5000K (cool white) color temperatures.\*
- Provides a range of 3,000 to 12,000 nominal lumens.\*
- Long-life LEDs provide 167,000 hours of operation with at least 70% of initial lumen output (L70), and 51,000 hours with at least 90% of initial lumen output (L90).\*\*
- Beam angle 135°.
- Screw in sensor ready. Sensor and remote control sold separately. Remote control required to change factory sensor settings.
- LED chromaticity based on < 6-step ANSI quadrangles.
- LED color maintenance < 0.0024 chromaticity shift ( $\Delta u'v'$ ) over the initial 6,000 hours of operation.
- Color Rendering Index > 80.

\* Default kelvin temperature 4000k and highest lumen output.

\*\* L70 & L90 hours are IES TM-21-11 calculated hours.

## MOUNTING

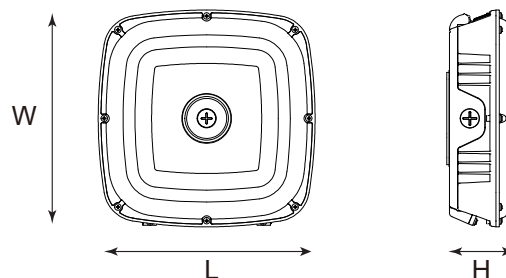
- Surface mounting.

## CODE COMPLIANCE

- cULus listed for wet locations.
- DLC premium listed
- Complies with FCC Part 15, class A.
- IP65 rated for ingress protection.
- IK10 rated for impact protection.

## WARRANTY

- 5 year warranty on all electronics and housing.



| Model #            | L (in) | W (in) | H (in) | Weight (lbs) |
|--------------------|--------|--------|--------|--------------|
| CPSR-1210863L-3CCT | 10     | 10     | 3.18   | 4.69         |

## ORDERING INFORMATION

Example: CPSR-1210863L-3CCT-WHT

| Model | Nominal Lumen Output<br>(selectable) |                                        | Kelvin<br>(selectable) |                   | Housing Color           |
|-------|--------------------------------------|----------------------------------------|------------------------|-------------------|-------------------------|
| CPSR  | 1210863L                             | 12,000/ 10,000/ 8,000/ 6,000/ 3,000 lm | 3CCT                   | 3000/ 4000/ 5000K | BRZ Bronze<br>WHT White |

## LUMEN TABLES

| Model       | Measurements | Lumens |
|-------------|--------------|--------|
|             |              | 5000K  |
| CP-11L-5K-M | Lumens       | 10,406 |
|             | Watt         | 78.48  |
|             | Efficacy     | 132.59 |

## ELECTRICAL DATA

| Model       | CCT   | Input Amps (A) |      |      |
|-------------|-------|----------------|------|------|
|             |       | 120V           | 240V | 277V |
| CP-11L-5K-M | 5000K | 0.65           | 0.33 | 0.28 |

## PHOTOMETRICS

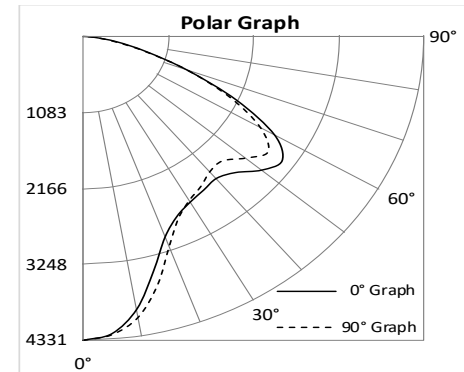
## CP-11L-5K-M

## Luminaire Data

|                                |                                 |
|--------------------------------|---------------------------------|
| Description                    | Canopy<br>11,000 lumens / 5000k |
| Total Lumens                   | 10,406                          |
| Input Wattage                  | 78                              |
| Efficacy (lm/W)                | 133                             |
| Spacing Criterion<br>(0-180°)  | 0.9                             |
| Spacing Criterion<br>(90-270°) | 0.92                            |

## Zonal Lumen Summary

| Zone    | Lumens | %Fixt  |
|---------|--------|--------|
| 0-20°   | 1,444  | 13.9%  |
| 0-30°   | 2,718  | 26.1%  |
| 0-40°   | 4,081  | 39.2%  |
| 20-50°  | 4,139  | 39.8%  |
| 40-70°  | 5,149  | 49.5%  |
| 0-60°   | 7,441  | 71.5%  |
| 0-80°   | 10,204 | 98.1%  |
| 0-90°   | 10,406 | 100.0% |
| 90-180° | 0      | 0.0%   |
| 0-180°  | 10,406 | 100.0% |



## COMPATIBLE DIMMERS AND CONTROLS

| Manufacturer  | Model Number | Dimmer Range | Load Switching Capacity |
|---------------|--------------|--------------|-------------------------|
| Best Lighting | DWS-010V-T   | 10%-100%     | 600W                    |
| Best Lighting | DWS-010V-D   | 10%-100%     | 600W                    |
| Leviton       | IP710-LFZ    | 10%-100%     | 1200W                   |
| Lutron        | DVSTV        | 10%-100%     | 450W                    |

## Canopy Luminaire Sensor Ready



## STANDARDS



## HOUSING

- Premium powder-coat, die cast aluminum, Bronze or White housing.

## ELECTRICAL

- Operating temperature (ambient): -40°C to 45°C (-40°F to 113°F).
- Universal 120-277 AC voltage (50-60Hz) is standard.
- 0-10V DC dimming drivers are standard.
- Integrated photocell is standard. Photocell can be enabled or disabled by switch.
- Input transient surge protection = 6kV.
- PF > 0.9; THD < 20%.

## OPTICAL SYSTEM

- Polycarbonate lens.
- Field selectable 3000K (warm white), 4000K (neutral white) and 5000K (cool white) color temperatures.\*
- Provides a range of 3,000 to 12,000 nominal lumens.\*
- Long-life LEDs provide 167,000 hours of operation with at least 70% of initial lumen output (L70), and 51,000 hours with at least 90% of initial lumen output (L90).\*\*
- Beam angle 135°.
- Screw in sensor ready. Sensor and remote control sold separately. Remote control required to change factory sensor settings.
- LED chromaticity based on < 6-step ANSI quadrangles.
- LED color maintenance < 0.0024 chromaticity shift ( $\Delta u'v'$ ) over the initial 6,000 hours of operation.
- Color Rendering Index > 80.

\* Default kelvin temperature 4000k and highest lumen output.

\*\* L70 & L90 hours are IES TM-21-11 calculated hours.

## MOUNTING

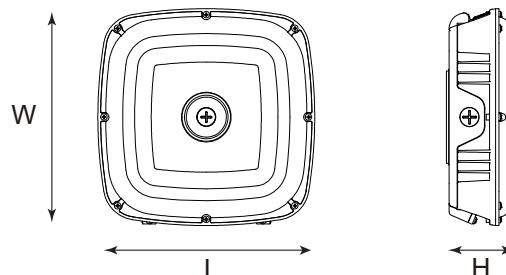
- Surface mounting.

## CODE COMPLIANCE

- cULus listed for wet locations.
- DLC premium listed
- Complies with FCC Part 15, class A.
- IP65 rated for ingress protection.
- IK10 rated for impact protection.

## WARRANTY

- 5 year warranty on all electronics and housing.



| Model #            | L (in) | W (in) | H (in) | Weight (lbs) |
|--------------------|--------|--------|--------|--------------|
| CPSR-1210863L-3CCT | 10     | 10     | 3.18   | 4.69         |

## ORDERING INFORMATION

Example: CPSR-1210863L-3CCT-WHT

| Model | Nominal Lumen Output<br>(selectable) |                                        | Kelvin<br>(selectable) |                   | Housing Color           |
|-------|--------------------------------------|----------------------------------------|------------------------|-------------------|-------------------------|
| CPSR  | 1210863L                             | 12,000/ 10,000/ 8,000/ 6,000/ 3,000 lm | 3CCT                   | 3000/ 4000/ 5000K | BRZ Bronze<br>WHT White |

## ACCESSORIES (ORDER SEPARATELY)

**Sensor**

- HD09VR-PH5-1 = Passive infrared sensor - maximum mounting height = 39 FT
- HD09VR-MH5-1 = Microwave step-dimming sensor - maximum mounting height = 49 FT
- HD05R = Remote control for HD09VR series Sensors (required to change factory settings)
- \*HD09VR series has 5-dial setting capability.**

**Factory settings or Sensor :** detection a ea =100%, hold time = 5 sec, tand-by period = 0 sec, stand-by dimming level = 10%, daylight threshold = disabled

## LUMEN TABLES

| Series             | Measurements | 20W    |        |        | 40W    |        |        | 60W    |        |        |
|--------------------|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                    |              | 3000K  | 4000K  | 5000K  | 3000K  | 4000K  | 5000K  | 3000K  | 4000K  | 5000K  |
| CPSR-1210863L-3CCT | Lumens       | 3,334  | 3,393  | 3,549  | 6,406  | 6,701  | 6,819  | 8,319  | 8,808  | 8,892  |
|                    | Watt         | 20.16  | 19.92  | 20.28  | 39.71  | 38.86  | 39.9   | 53.27  | 51.75  | 53.63  |
|                    | Efficacy     | 165.38 | 170.33 | 175.00 | 161.32 | 172.44 | 170.90 | 156.17 | 170.20 | 165.80 |

| Series             | Measurements | 68W    |        |        | 75W    |        |        |
|--------------------|--------------|--------|--------|--------|--------|--------|--------|
|                    |              | 3000K  | 4000K  | 5000K  | 3000K  | 4000K  | 5000K  |
| CPSR-1210863L-3CCT | Lumens       | 9,539  | 10,143 | 10,153 | 10,938 | 11,715 | 11,556 |
|                    | Watt         | 62.34  | 60.21  | 62.61  | 72.95  | 70.36  | 72.95  |
|                    | Efficacy     | 153.02 | 168.46 | 162.16 | 149.94 | 166.50 | 158.41 |

## ELECTRICAL DATA

| Series             | CCT   | Input Amps (A) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--------------------|-------|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                    |       | 20W            |      |      | 40W  |      |      | 60W  |      |      | 68W  |      |      | 75W  |      |      |
|                    |       | 120V           | 240V | 277V | 120V | 240V | 277V | 120V | 240V | 277V | 120V | 240V | 277V | 120V | 240V | 277V |
| CPSR-1210863L-3CCT | 3000K | 0.17           | 0.08 | 0.07 | 0.33 | 0.17 | 0.14 | 0.44 | 0.22 | 0.19 | 0.52 | 0.26 | 0.23 | 0.61 | 0.30 | 0.26 |
|                    | 4000K | 0.17           | 0.08 | 0.07 | 0.32 | 0.16 | 0.14 | 0.43 | 0.22 | 0.19 | 0.50 | 0.25 | 0.22 | 0.59 | 0.29 | 0.25 |
|                    | 5000K | 0.17           | 0.08 | 0.07 | 0.33 | 0.17 | 0.14 | 0.45 | 0.22 | 0.19 | 0.52 | 0.26 | 0.23 | 0.61 | 0.30 | 0.26 |

## PHOTOMETRICS

## CPSR-1210863L-3CCT

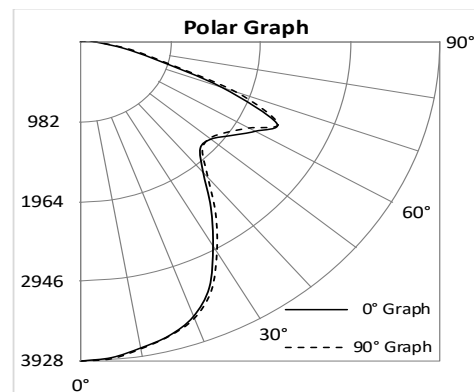
## Luminaire Data

|                                |                                              |
|--------------------------------|----------------------------------------------|
| Description                    | Canopy, Sensor Ready<br>CCT and Lumen Select |
| Total Lumens                   | 11,715                                       |
| Input Wattage                  | 70                                           |
| Efficacy (lm/W)                | 167                                          |
| Spacing Criterion<br>(0-180°)  | 1.14                                         |
| Spacing Criterion<br>(90-270°) | 1.16                                         |

Photometric calculated at  
4000k and highest lumen  
setting.

## Zonal Lumen Summary

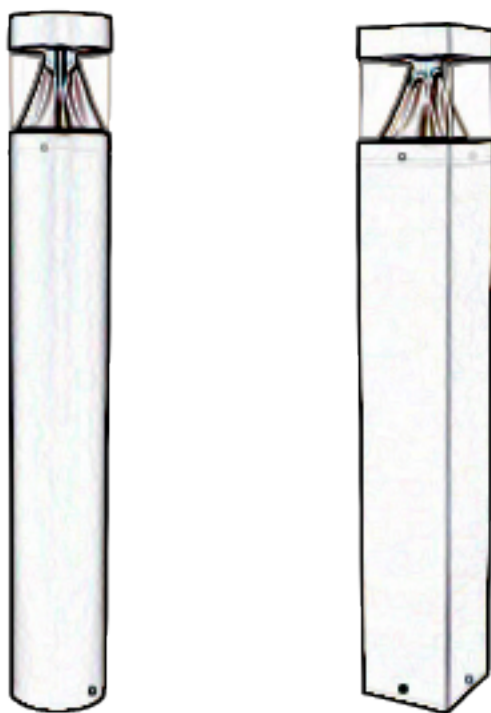
| Zone    | Lumens | %Fixt  |
|---------|--------|--------|
| 0-20°   | 1,432  | 12.2%  |
| 0-30°   | 3,003  | 25.6%  |
| 0-40°   | 4,674  | 39.9%  |
| 20-50°  | 4,723  | 40.3%  |
| 40-70°  | 4,973  | 42.5%  |
| 0-60°   | 7,683  | 65.6%  |
| 0-80°   | 11,036 | 94.2%  |
| 0-90°   | 11,514 | 98.3%  |
| 90-180° | 201    | 1.7%   |
| 0-180°  | 11,715 | 100.0% |



## COMPATIBLE DIMMERS AND CONTROLS

| Manufacturer  | Model Number | Dimmer Range | Load Switching Capacity |
|---------------|--------------|--------------|-------------------------|
| Best Lighting | DWS-010V-T   | 10%-100%     | 600W                    |
| Best Lighting | DWS-010V-D   | 10%-100%     | 600W                    |
| Leviton       | IP710-LFZ    | 10%-100%     | 1200W                   |
| Lutron        | DVSTV        | 10%-100%     | 450W                    |

# Bollard



## Round & Square Bollards – Lumen & Kelvin Field Selectable

### STANDARD



### FEATURES

- Field selectable 3000k (warm white), 4000k (neutral white), and 5000k (cool white) color temperatures.\*
- Long-life LEDs provide at least 70% of initial lumen output ( $L_{70}$ ) for  $\geq 163,000$  hours of operation, and at least 90% of initial lumen output ( $L_{90}$ ) for  $\geq 50,000$  hours of operation.\*\*
- LED chromaticity based on  $\leq 5$ -step ANSI quadrangles.
- LED color maintenance  $\leq 0.003$  chromaticity shift ( $\Delta u'v'$ ) over the initial 6,000 hours of operation.
- Provides a range of 905 to 3,296 nominal lumens and 69 to 148 nominal lumens per watt (lm/W).
- 0-10vdc dimming drivers, are standard.
- Universal 120-277 AC voltage (50-60Hz) is standard.
- Power factor  $> 0.90$ .
- Total harmonic distortion  $< 20\%$ .
- Color rendering index ( $R_a$ )  $> 80$ .
- Cast aluminum housing with choice of dark bronze or black powder coat finish.
- High-impact, polycarbonate lens.
- Easy installation in new construction or retrofit applications.

### WARRANTY & LISTINGS

- cULus listed for wet locations in ambient temperatures from  $-40^{\circ}\text{C}$  to  $55^{\circ}\text{C}$  ( $-40^{\circ}\text{F}$  to  $131^{\circ}\text{F}$ ).
- IP65 rated for ingress protection.
- DLC premium approved.\*\*\*
- Complies with FCC Part 15, class A.
- Surge protection = 4kV.
- 5-year warranty of all electronics and housing.

\* Contact factory for other color temperatures and lumen packages.

\*\*  $L_{70}$  &  $L_{90}$  hours are IES TM-21-11 calculated hours.

\*\*\* Excluding BOL-RDL models. BOL-RDL models are not DLC listed.



### DIMENSIONS



| MODEL   | L | W/Ø | H  | Weight (lbs) |
|---------|---|-----|----|--------------|
| BOL-S   | 6 | 6   | 42 | 12           |
| BOL-R   | 6 | 6   | 42 | 15           |
| BOL-RD  | 6 | 6   | 44 | 12           |
| BOL-RDL | 6 | 6   | 44 | 13           |

NOTE: All dimensions measured in inches.

### ORDERING INFORMATION

Example: BOL-R-3L-LKFS-BLK

| Series | Model |                     | Nominal Lumen Output |          | Select | Housing Color |        | Required Mounting Means Order Separately |                                |
|--------|-------|---------------------|----------------------|----------|--------|---------------|--------|------------------------------------------|--------------------------------|
| BOL    | R     | Round               | 3L                   | 3,000 lm | LKFS   | BLK           | Black  | BOL-R-MTGKIT                             | Anchor bolt for round bollard  |
|        | S     | Square              |                      |          |        | Blank         | Bronze | BOL-S-MTGKIT                             | Anchor bolt for square bollard |
|        | RD    | Round Dome          |                      |          |        |               |        |                                          |                                |
|        | RDL   | Round Dome Louvered | 2L                   | 2,000 lm |        |               |        |                                          |                                |

## ELECTRICAL DATA

| Series        | Measurements      | Low Lumens   |              |              | Mid Lumens   |              |              | High Lumens  |              |              |
|---------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|               |                   | 3000K        | 4000K        | 5000K        | 3000K        | 4000K        | 5000K        | 3000K        | 4000K        | 5000K        |
| BOL-R-3L-LKFS | Lumens            | 1827         | 1974         | 1942         | 2507         | 2686         | 2665         | 3090         | 3244         | 3296         |
|               | Watts             | 13           | 14           | 13           | 18           | 19           | 18           | 23           | 22           | 23           |
|               | Efficacy          | 139          | 144          | 148          | 138          | 145          | 146          | 134          | 145          | 144          |
|               | Input Current (A) | 120V = 0.11A | 120V = 0.12A | 120V = 0.11A | 120V = 0.15A | 120V = 0.16A | 120V = 0.15A | 120V = 0.19A | 120V = 0.18A | 120V = 0.19A |
|               |                   | 240V = 0.05A | 240V = 0.06A | 240V = 0.05A | 240V = 0.08A | 240V = 0.08A | 240V = 0.08A | 240V = 0.10A | 240V = 0.09A | 240V = 0.10A |
|               |                   | 277V = 0.05A | 277V = 0.05A | 277V = 0.05A | 277V = 0.06A | 277V = 0.07A | 277V = 0.06A | 277V = 0.08A | 277V = 0.08A | 277V = 0.08A |

| Series        | Measurements      | Low Lumens   |              |              | Mid Lumens   |              |              | High Lumens  |              |              |
|---------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|               |                   | 3000K        | 4000K        | 5000K        | 3000K        | 4000K        | 5000K        | 3000K        | 4000K        | 5000K        |
| BOL-S-3L-LKFS | Lumens            | 1702         | 1790         | 1805         | 2303         | 2450         | 2459         | 2887         | 3047         | 3041         |
|               | Watts             | 13           | 14           | 13           | 18           | 18           | 19           | 23           | 23           | 23           |
|               | Efficacy          | 128          | 132          | 135          | 125          | 134          | 133          | 125          | 135          | 131          |
|               | Input Current (A) | 120V = 0.11A | 120V = 0.12A | 120V = 0.11A | 120V = 0.15A | 120V = 0.15A | 120V = 0.16A | 120V = 0.19A | 120V = 0.19A | 120V = 0.19A |
|               |                   | 240V = 0.05A | 240V = 0.06A | 240V = 0.05A | 240V = 0.08A | 240V = 0.08A | 240V = 0.08A | 240V = 0.10A | 240V = 0.10A | 240V = 0.10A |
|               |                   | 277V = 0.05A | 277V = 0.05A | 277V = 0.05A | 277V = 0.06A | 277V = 0.06A | 277V = 0.07A | 277V = 0.08A | 277V = 0.08A | 277V = 0.08A |

| Series         | Measurements      | Low Lumens   |              |              | Mid Lumens   |              |              | High Lumens  |              |              |
|----------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                |                   | 3000K        | 4000K        | 5000K        | 3000K        | 4000K        | 5000K        | 3000K        | 4000K        | 5000K        |
| BOL-RD-3L-LKFS | Lumens            | 1819         | 1818         | 1895         | 2512         | 2530         | 2614         | 3103         | 3249         | 3251         |
|                | Watts             | 13           | 12           | 13           | 18           | 17           | 18           | 23           | 22           | 23           |
|                | Efficacy          | 140          | 148          | 146          | 138          | 147          | 144          | 136          | 146          | 143          |
|                | Input Current (A) | 120V = 0.11A | 120V = 0.10A | 120V = 0.11A | 120V = 0.15A | 120V = 0.14A | 120V = 0.15A | 120V = 0.19A | 120V = 0.18A | 120V = 0.19A |
|                |                   | 240V = 0.05A | 240V = 0.05A | 240V = 0.05A | 240V = 0.08A | 240V = 0.07A | 240V = 0.08A | 240V = 0.10A | 240V = 0.09A | 240V = 0.10A |
|                |                   | 277V = 0.05A | 277V = 0.04A | 277V = 0.05A | 277V = 0.06A | 277V = 0.06A | 277V = 0.06A | 277V = 0.08A | 277V = 0.08A | 277V = 0.08A |

| Series          | Measurements      | Low Lumens   |              |              | Mid Lumens   |              |              | High Lumens  |              |              |
|-----------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                 |                   | 3000K        | 4000K        | 5000K        | 3000K        | 4000K        | 5000K        | 3000K        | 4000K        | 5000K        |
| BOL-RDL-2L-LKFS | Lumens            | 905          | 973          | 983          | 1263         | 1351         | 1359         | 1573         | 1692         | 1687         |
|                 | Watts             | 13           | 12           | 13           | 18           | 17           | 18           | 23           | 22           | 23           |
|                 | Efficacy          | 71           | 79           | 77           | 71           | 78           | 76           | 69           | 76           | 74           |
|                 | Input Current (A) | 120V = 0.11A | 120V = 0.10A | 120V = 0.11A | 120V = 0.15A | 120V = 0.14A | 120V = 0.15A | 120V = 0.19A | 120V = 0.18A | 120V = 0.19A |
|                 |                   | 240V = 0.05A | 240V = 0.05A | 240V = 0.05A | 240V = 0.08A | 240V = 0.07A | 240V = 0.08A | 240V = 0.10A | 240V = 0.09A | 240V = 0.10A |
|                 |                   | 277V = 0.05A | 277V = 0.04A | 277V = 0.05A | 277V = 0.06A | 277V = 0.06A | 277V = 0.06A | 277V = 0.08A | 277V = 0.08A | 277V = 0.08A |

## PHOTOMETRIC DATA

## BOL-R-3L-LKFS

## Luminaire Data

|                             |                                 |
|-----------------------------|---------------------------------|
| Description                 | BOLLARD (ROUND)<br>3L 5K - LKFS |
| Total Lumens                | 3,296                           |
| Input Wattage               | 23                              |
| Efficacy (lm/W)             | 144                             |
| Max. Cd.                    | 815.81 (67.5H, 53V)             |
| IES Classification          | Type VS                         |
| Longitudinal Classification | Short                           |

## Zonal Lumen Summary

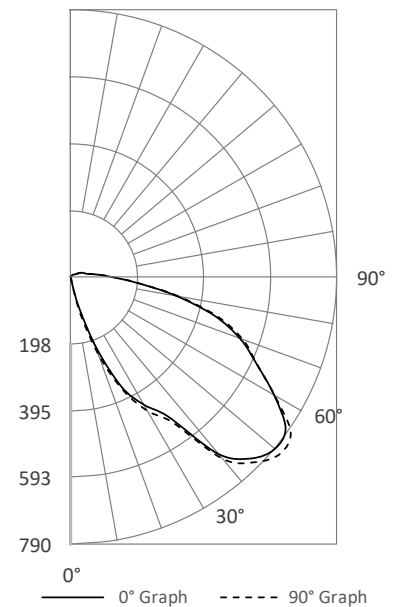
| Zone     | Lumens | %Fixt  |
|----------|--------|--------|
| 0-30°    | 201    | 6.1%   |
| 0-60°    | 1,823  | 55.3%  |
| 0-80°    | 2,890  | 87.7%  |
| 80-90°   | 225    | 6.8%   |
| 0-90°    | 3,115  | 94.5%  |
| 90-110°  | 134    | 4.1%   |
| 110-180° | 0      | 0.0%   |
| 0-180°   | 3,296  | 100.0% |

## Luminaire Classification Systems (LCS)

| LCS Zone   |         | Lumens   | %Lum   |
|------------|---------|----------|--------|
| FL         | 0-30    | 99       | 3.0%   |
| FM         | 30-60   | 813      | 24.7%  |
| FH         | 60-80   | 540      | 16.4%  |
| FVH        | 80-90   | 116      | 3.5%   |
| BL         | 0-30    | 101      | 3.1%   |
| BM         | 30-60   | 809      | 24.5%  |
| BH         | 60-80   | 527      | 16.0%  |
| BVH        | 80-90   | 109      | 3.3%   |
| UL         | 90-100  | 89       | 2.7%   |
| UH         | 100-180 | 93       | 2.8%   |
| Total      |         | 3,296    | 100.0% |
| BUG Rating |         | B2-U3-G2 |        |

Photometrics calculated at 5000k - high lumens setting

## 180° Polar Graph



## BOL-S-3L-LKFS

## Luminaire Data

|                             |                                  |
|-----------------------------|----------------------------------|
| Description                 | BOLLARD (SQUARE)<br>3L 5K - LKFS |
| Total Lumens                | 3,041                            |
| Input Wattage               | 23                               |
| Efficacy (lm/W)             | 132                              |
| Max. Cd.                    | 843.54 (270H, 53V)               |
| IES Classification          | Type VS                          |
| Longitudinal Classification | Short                            |

## Zonal Lumen Summary

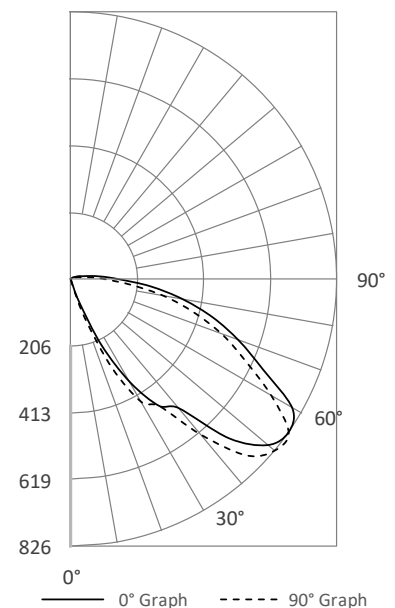
| Zone     | Lumens | %Fixt  |
|----------|--------|--------|
| 0-30°    | 114    | 3.8%   |
| 0-60°    | 1,611  | 53.0%  |
| 0-80°    | 2,646  | 87.0%  |
| 80-90°   | 230    | 7.6%   |
| 0-90°    | 2,876  | 94.6%  |
| 90-110°  | 126    | 4.1%   |
| 110-180° | 0      | 0.0%   |
| 0-180°   | 3,041  | 100.0% |

## Luminaire Classification Systems (LCS)

| LCS Zone   |         | Lumens   | %Lum  |
|------------|---------|----------|-------|
| FL         | 0-30    | 47       | 1.6%  |
| FM         | 30-60   | 738      | 24.3% |
| FH         | 60-80   | 552      | 18.2% |
| FVH        | 80-90   | 132      | 4.3%  |
| BL         | 0-30    | 67       | 2.2%  |
| BM         | 30-60   | 760      | 25.0% |
| BH         | 60-80   | 482      | 15.9% |
| BVH        | 80-90   | 98       | 3.2%  |
| UL         | 90-100  | 89       | 2.9%  |
| UH         | 100-180 | 76       | 2.5%  |
| Total      |         | 3,041    | 99.9% |
| BUG Rating |         | B1-U3-G2 |       |

Photometrics calculated at 5000k - high lumens setting

## 180° Polar Graph



## PHOTOMETRIC DATA

## BOL-RD-3L-LKFS

## Luminaire Data

|                             |                                      |
|-----------------------------|--------------------------------------|
| Description                 | BOLLARD (ROUND DOME)<br>3L 5K - LKFS |
| Total Lumens                | 3,251                                |
| Input Wattage               | 23                                   |
| Efficacy (lm/W)             | 143                                  |
| Max. Cd.                    | 765.57 (45H, 52V)                    |
| IES Classification          | Type VS                              |
| Longitudinal Classification | Very Short                           |

## Zonal Lumen Summary

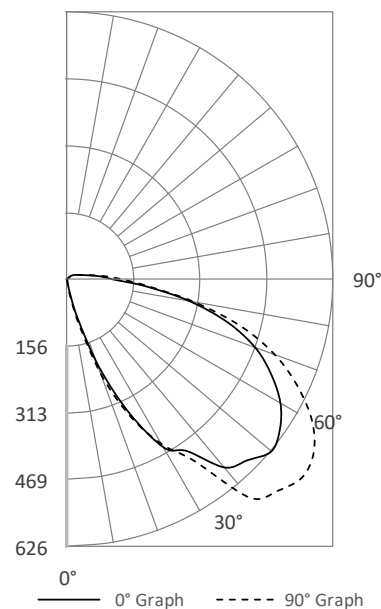
| Zone     | Lumens | %Fixt  |
|----------|--------|--------|
| 0-30°    | 200    | 6.2%   |
| 0-60°    | 1,724  | 53.0%  |
| 0-80°    | 2,790  | 85.8%  |
| 80-90°   | 240    | 7.4%   |
| 0-90°    | 3,030  | 93.2%  |
| 90-110°  | 161    | 5.0%   |
| 110-180° | 0      | 0.0%   |
| 0-180°   | 3,251  | 100.0% |

## Luminaire Classification Systems (LCS)

| LCS Zone   |         | Lumens   | %Lum   |
|------------|---------|----------|--------|
| FL         | 0-30    | 96       | 3.0%   |
| FM         | 30-60   | 756      | 23.3%  |
| FH         | 60-80   | 539      | 16.6%  |
| FVH        | 80-90   | 124      | 3.8%   |
| BL         | 0-30    | 104      | 3.2%   |
| BM         | 30-60   | 768      | 23.6%  |
| BH         | 60-80   | 528      | 16.2%  |
| BVH        | 80-90   | 116      | 3.6%   |
| UL         | 90-100  | 110      | 3.4%   |
| UH         | 100-180 | 111      | 3.4%   |
| Total      |         | 3,251    | 100.0% |
| BUG Rating |         | B2-U3-G2 |        |

Photometrics calculated at 5000k - high lumens setting

## 180° Polar Graph



## BOL-RDL-2L-LKFS

## Luminaire Data

|                             |                               |
|-----------------------------|-------------------------------|
| Description                 | BOLLARD (RDL)<br>2L 5K - LKFS |
| Total Lumens                | 1,688                         |
| Input Wattage               | 23                            |
| Efficacy (lm/W)             | 74                            |
| Max. Cd.                    | 292.72 (225H, 67V)            |
| IES Classification          | Type VS                       |
| Longitudinal Classification | Short                         |

## Zonal Lumen Summary

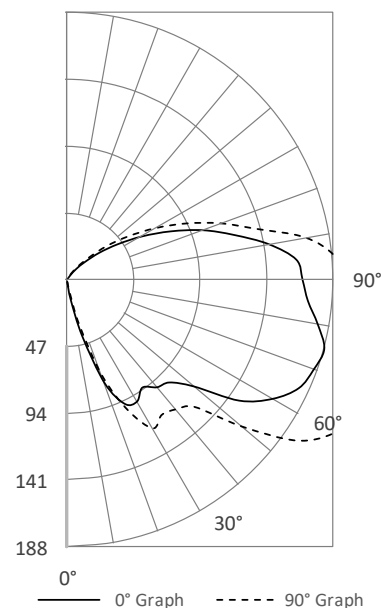
| Zone     | Lumens | %Fixt  |
|----------|--------|--------|
| 0-30°    | 61     | 3.6%   |
| 0-60°    | 455    | 27.0%  |
| 0-80°    | 959    | 56.8%  |
| 80-90°   | 231    | 13.7%  |
| 0-90°    | 1,190  | 70.5%  |
| 90-110°  | 345    | 20.4%  |
| 110-180° | 0      | 0.0%   |
| 0-180°   | 1,688  | 100.0% |

## Luminaire Classification Systems (LCS)

| LCS Zone   |         | Lumens   | %Lum   |
|------------|---------|----------|--------|
| FL         | 0-30    | 32       | 1.9%   |
| FM         | 30-60   | 201      | 11.9%  |
| FH         | 60-80   | 253      | 15.0%  |
| FVH        | 80-90   | 115      | 6.8%   |
| BL         | 0-30    | 29       | 1.7%   |
| BM         | 30-60   | 192      | 11.4%  |
| BH         | 60-80   | 250      | 14.8%  |
| BVH        | 80-90   | 116      | 6.9%   |
| UL         | 90-100  | 202      | 12.0%  |
| UH         | 100-180 | 296      | 17.5%  |
| Total      |         | 1,688    | 100.0% |
| BUG Rating |         | B1-U3-G2 |        |

Photometrics calculated at 5000k - high lumens setting

## 180° Polar Graph



## UFO Head Bollard Lumen & Kelvin Selectable

### STANDARDS



### HOUSING

- Premium powder-coat, aluminum, dark bronze or black housing.

### ELECTRICAL

- Operating temperature (ambient): -40°C to 60°C (-40°F to 140°F).
- Universal 120-277V AC voltage (50-60Hz) is standard.
- 0-10VDC dimming drivers are standard.
- Input transient surge protection = 4kV.
- Power factor > 0.90.
- Total Harmonic distortion < 20%.

### OPTICAL SYSTEM

- High-impact, Polycarbonate Lens.
- Field selectable 3000k(warm white), 4000k (neutral white) and 5000k (cool white) color temperatures\*.
- Tri-lumen selectable delivers 1,700 to 3,000 nominal lumens\*.
- Long-life LEDs provide 192,000 hours of operation with at least 70% of initial lumen output (L70), and 58,000 hours with at least 90% of initial lumen output (L90)\*\*.
- LED color maintenance  $\leq 0.00313$  chromaticity shift ( $\Delta u'v'$ ) over the initial 6,000 hours of operation.
- Color rendering index > 70.

\* Default 4000k color temperature and highest lumen output.

\*\*L70 & L90 hours are IES TM-21-11 calculated hours.



### MOUNTING

- Anchor Bolt mount kit

### CODE COMPLIANCE

- cULus certified for wet locations.
- DLC Premium listed.
- Complies with FCC part 15, class A.
- IP65 rated for ingress protection.
- IK10 rated for impact protection.

### WARRANTY

- 5 year warranty on all electronics and housing.



| Model #              | L (in) | W (in) | B (in) | H (in) | Weight (lbs) |
|----------------------|--------|--------|--------|--------|--------------|
| BOL-UFO-302317L-3CCT | 9.76   | 9.76   | 6.3    | 42.25  | 13.22        |

### ORDERING INFORMATION

Example: BOL-UFO-302317L-3CCT

| Series  | Nominal Lumen Output (Selectable) |                          | Kelvin Selectable | Housing Color                  |
|---------|-----------------------------------|--------------------------|-------------------|--------------------------------|
| BOL-UFO | 302317L                           | 3,000 / 2,300 / 1,700 lm | 3CCT 3K / 4K / 5K | Blank Dark Bronze<br>BLK Black |

## ACCESSORIES (ORDER SEPARATELY)

**Mounting:**

BOL-R-MTGKIT = Round Bollard Anchor Bolt Mounting Kit

## LUMEN TABLES

| Series               | Measurements | Low Lumens |       |       | Mid Lumens |       |       | High Lumens |       |       |
|----------------------|--------------|------------|-------|-------|------------|-------|-------|-------------|-------|-------|
|                      |              | 3000K      | 4000K | 5000K | 3000K      | 4000K | 5000K | 3000K       | 4000K | 5000K |
| BOL-UFO-302317L-3CCT | Lumens       | 1,725      | 1,770 | 1,784 | 2,316      | 2,385 | 2,373 | 2,927       | 3,019 | 2,992 |
|                      | Watt         | 13.32      | 13.15 | 13.47 | 18.19      | 17.86 | 18.31 | 23.52       | 22.96 | 23.63 |
|                      | Efficacy     | 130        | 135   | 132   | 127        | 134   | 130   | 124         | 131   | 127   |

## ELECTRICAL DATA

| Series               | CCT   | Input Amps (A) |      |      |            |      |      |             |      |      |
|----------------------|-------|----------------|------|------|------------|------|------|-------------|------|------|
|                      |       | Low Lumens     |      |      | Mid Lumens |      |      | High Lumens |      |      |
|                      |       | 120V           | 240V | 277V | 120V       | 240V | 277V | 120V        | 240V | 277V |
| BOL-UFO-302317L-3CCT | 3000k | 0.11           | 0.06 | 0.05 | 0.15       | 0.08 | 0.07 | 0.20        | 0.10 | 0.08 |
|                      | 4000k | 0.11           | 0.05 | 0.05 | 0.15       | 0.07 | 0.06 | 0.19        | 0.10 | 0.08 |
|                      | 5000k | 0.11           | 0.06 | 0.05 | 0.15       | 0.08 | 0.07 | 0.20        | 0.10 | 0.09 |

PHOTOMETRICS

BOL-UFO-302317L-3CCT

Luminaire Data

|                                |                                        |
|--------------------------------|----------------------------------------|
| Description                    | BOLLARD (UFO)<br>Highest power, 4K CCT |
| Total Lumens                   | 3,019                                  |
| Input Wattage                  | 23                                     |
| Efficacy (lm/W)                | 132                                    |
| Max. Cd.                       | 1189.1 (292.5H, 57V)                   |
| IES Classification             | Type III                               |
| Longitudinal<br>Classification | Short                                  |

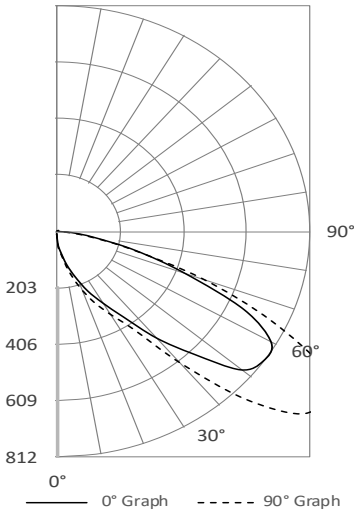
Zonal Lumen Summary

| Zone     | Lumens | %Fixt  |
|----------|--------|--------|
| 0-30°    | 165    | 5.5%   |
| 0-60°    | 1,886  | 62.5%  |
| 0-80°    | 2,947  | 97.6%  |
| 80-90°   | 53     | 1.7%   |
| 0-90°    | 3,000  | 99.3%  |
| 90-110°  | 9      | 0.3%   |
| 110-180° | 0      | 0.0%   |
| 0-180°   | 3,019  | 100.0% |

Luminaire Classification Systems (LCS)

| LCS Zone   |         | Lumens   | %Lum   |
|------------|---------|----------|--------|
| FL         | 0-30    | 79       | 2.6%   |
| FM         | 30-60   | 842      | 27.9%  |
| FH         | 60-80   | 542      | 17.9%  |
| FVH        | 80-90   | 27       | 0.9%   |
| BL         | 0-30    | 86       | 2.9%   |
| BM         | 30-60   | 878      | 29.1%  |
| BH         | 60-80   | 519      | 17.2%  |
| BVH        | 80-90   | 26       | 0.9%   |
| UL         | 90-100  | 5        | 0.1%   |
| UH         | 100-180 | 15       | 0.5%   |
| Total      |         | 3,020    | 100.0% |
| BUG Rating |         | B2-U2-G2 |        |

180° Polar Graph



COMPATIBLE DIMMERS AND CONTROLS

| Manufacturer  | Model Number | Dimmer Range | Load Switching Capacity |
|---------------|--------------|--------------|-------------------------|
| Best Lighting | DWS-010V-T   | 10%-100%     | 600W                    |
| Best Lighting | DWS-010V-D   | 10%-100%     | 600W                    |
| Leviton       | IP710-LFZ    | 10%-100%     | 1200W                   |
| Lutron        | DVSTV        | 10%-100%     | 450W                    |



## Warranty

Americanlite® is pleased to provide a 5 year limited warranty covering the fixtures and lamps in this catalogue. Americanlite® warrants that the fixtures comply with Americanlite®'s published specifications and are free from defects in materials and workmanship.

All our equipment is CE, TUV, FCC or UL approved and manufactured with approved components. Americanlite® reserves the right to change or improve the design or components of any of its products due to parts availability or changes in standards, without assuming any obligation to modify any product previously manufactured and without notice. All equipment is tested and inspected before shipment.

This warranty is void if the product is operated outside of its normal operating conditions. The foregoing warranty does not apply to failures caused by acts of God or as a result of any abuse, misuse, abnormal use, or use in violation of any applicable standard, code or instructions for use in installations, including, but not limited to, those contained in the Standards for the International Electrotechnical Commission. Americanlite® reserves and has the right to examine failed ballast to determine the cause of failure, excessive lumen depreciation and patterns of usage.