

# UR20-Arm Mount

ARCHITECTURAL AREA/SITE

|            |           |
|------------|-----------|
| DATE:      | LOCATION: |
| TYPE:      | PROJECT:  |
| CATALOG #: |           |

## FEATURES

- 20" size in post top, pole and wall mount
- High performance optics up to 17,000 delivered lumens
- Elegant form factor
- Diffusion lens option
- UL/cUL listed for wet locations, IP66 and 4G/1.5G vibration rated



3000K and warmer CCTs only

## CONTROL TECHNOLOGY



## SPECIFICATIONS

### CONSTRUCTION

- Low copper aluminum alloy die-casting is designed as one-piece with internal cooling fins.
- Solid, cast aluminum wall creates a thermal barrier between the optical and electrical compartments.
- Molded silicone gasket throughout insures the sealing between the two compartments and provides ingress protection.
- Housing is designed with integral LED heat sink utilized for thermal transfer and for securing the location of each LED module.
- All external fasteners are stainless steel.
- One-piece low copper aluminum alloy die-cast lens frame is secured to housing with 6 screws.

### OPTICS

- LEDs mount to a metal printed circuit board assembly (MCPCB).
- Optical lenses are clear injection molded PMMA acrylic.
- Optional Backlight Control on each LED module to completely control unwanted backlight.

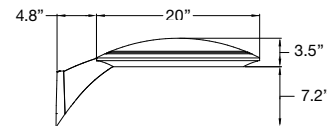
### LENS

- Standard lens (CLR) IK08
- Clear Polycarbonate Lens (CP) IK10

### INSTALLATION

- Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.

Ouro™



|      | Weight           | EPA                    |
|------|------------------|------------------------|
| UR20 | 32 lbs / 14.5 kg | 0.372 ft. <sup>2</sup> |

### ELECTRICAL

- Universal voltage, 120 through 277V with a  $\pm 10\%$  tolerance. Driver is Underwriters Laboratories listed.
- High voltage configurations, 347/480. Driver has a 0-10V dimming interface for multi-level illumination options. Driver is Underwriters Laboratories listed.
- "Thermal Shield", secondary side, thermistor provides protection for the sustainable life of LED module and electronic components
- Drivers shall have greater than a 0.9 power factor, less than 20% harmonic distortion, and be suitable for operation in  $-40^{\circ}\text{C}$  to  $40^{\circ}\text{C}$  ambient environments.
- Luminaire shall be capable of operating at 100% brightness in a  $40^{\circ}\text{C}$  environment. Both driver and optical array have integral thermal protection that will dim the luminaire upon detection of temperatures in excess of  $85^{\circ}\text{C}$ .
- Surge protection: 10,000k in parallel, 20,000k in series
- Wiring: No. 18AWM rated  $105^{\circ}\text{C}$ , wet rating.

### CONTROLS

#### 7PR

- Fully gasketed and wired 7-pin receptacle option. Easy access location above the electrical compartment. 7-pin construction allows for a user-defined interface and provides a controlled definition of operational performance. ANSI twist-lock control module by-others.

Standard customer operation modes:

- Traditional on/off photoelectric control.
- 5-pin wireless photoelectric control for added dimming feature.
- 7-pin wireless photoelectric control for for dimming and additional I/O connections for customer use.

<sup>1</sup>Clear Polycarbonate Lens (CP) IK10, Standard lens (CLR) IK08, Consult factory for details

(Specifications continued on page 5)

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## ORDERING GUIDE

Example: UR20-24L-25-3K8-3-L-UNV-ASQ-BLT-7PR-BC

CATALOG #

## HOUSING

| UR20  |            |                                  |           |                                         |               |                                  |                      |
|-------|------------|----------------------------------|-----------|-----------------------------------------|---------------|----------------------------------|----------------------|
| Model | LED Engine | CCT/CRI                          |           | Distribution                            |               | Rotation                         |                      |
| UR20  | Ouro       | <b>No Lens or Clear Lens</b>     |           | <b>AM <sup>11</sup></b> Amber, 595nm    |               | <b>No Lens or Clear Lens</b>     |                      |
|       |            | <b>24L-25</b>                    | 3,000 lm  | <b>27K8</b>                             | 2700K, 80 CRI | <b>FR</b>                        | Type I/Front Row     |
|       |            | <b>24L-65</b>                    | 7,000 lm  | <b>3K7</b>                              | 3000K, 70 CRI | <b>2</b>                         | Type II              |
|       |            | <b>56L-75</b>                    | 10,000 lm | <b>3K8</b>                              | 3000K, 80 CRI | <b>3</b>                         | Type III             |
|       |            | <b>56L-110</b>                   | 15,000 lm | <b>35K8</b>                             | 3500K, 80 CRI | <b>4</b>                         | Type IV              |
|       |            | <b>56L-140</b>                   | 17,000 lm | <b>3K9</b>                              | 3000K, 90 CRI | <b>4W</b>                        | Type IV Wide         |
|       |            | <b>HDL - High Diffusion Lens</b> |           | <b>4K7</b>                              | 4000K, 70 CRI | <b>5QM</b>                       | Type V Square Medium |
|       |            | <b>28L-30</b>                    | 3,000 lm  | <b>4K8</b>                              | 4000K, 80 CRI | <b>5QN</b>                       | Type V Square Narrow |
|       |            | <b>28L-70</b>                    | 7,000 lm  | <b>5K7</b>                              | 5000K, 70 CRI | <b>5R</b>                        | Type V Rectangular   |
|       |            | <b>68L-80</b>                    | 9,000 lm  | Consult factory for other CCTs and CRIs |               | <b>5W</b>                        | Type V Wide (Round)  |
|       |            | <b>68L-115</b>                   | 13,000 lm |                                         |               | <b>HDL - High Diffusion Lens</b> |                      |
|       |            | <b>68L-150</b>                   | 15,000 lm |                                         |               | <b>3</b>                         | Type III/Asymmetric  |
|       |            |                                  |           |                                         |               | <b>5W</b>                        | Type V/Symmetric     |

| Mounting    |                                                   | Fixture Finish         |                              | Control Options                 |                                                                                                                                   | Options                      |                          | Control Accessories   |                                                                                                                                                                 |
|-------------|---------------------------------------------------|------------------------|------------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ASQ</b>  | Arm Square pole                                   | <b>BLS</b>             | Black Gloss Smooth           | <b>7PR-TL</b>                   | 7 pin PCR with twist lock photocontrol                                                                                            | <b>BC <sup>6</sup></b>       | Back-light Control       | <b>WIR-RME-L</b>      | LightGRID+™ External Fixture Module                                                                                                                             |
| <b>A34</b>  | Arm mt 3.3-4.2" OD pole                           | <b>BLT</b>             | Black Matte Textured         | <b>7PR-SC</b>                   | 7 pin PCR with shorting cap                                                                                                       | <b>SF</b>                    | Single Fuse              | <b>SCH-R</b>          | Occ. Sensor for Round Pole (up to 30' MH)                                                                                                                       |
| <b>A46</b>  | Arm mt 4.5-6.0" OD pole                           | <b>DBS</b>             | Dark Bronze Gloss Smooth     | <b>7PR</b>                      | 7 pin PCR, wireless control enabled                                                                                               | <b>DF</b>                    | Double Fuse              | <b>SCH-S</b>          | Occ. Sensor for Square Pole (up to 30' MH)                                                                                                                      |
| <b>MAF</b>  | Horizontal Slip Fitter 2 3/8" OD arm              | <b>DBT</b>             | Dark Bronze Matte Textured   | <b>AD-01 <sup>2</sup></b>       | AstroDIM: 50% output at midnight                                                                                                  | <b>TB</b>                    | Terminal Block           | <b>NXOFM-1R1D-UNV</b> | NX 7-Pin Twist-Lock® with NX Networked Wireless Radio, Integral Automatic Dimming Photocell, Integral Single Pole Relay with Dimming, and Bluetooth Programming |
| <b>SVSF</b> | Square Vertical Slipfitter for 2"Tenon (2-3/8"OD) | <b>GTT</b>             | Graphite Matte Textured      | <b>AD-02 <sup>2</sup></b>       | AstroDIM: 50% output midnight to 4 AM                                                                                             | <b>CLR <sup>5,6,13</sup></b> | Clear Lens               |                       |                                                                                                                                                                 |
| <b>VSF</b>  | Round Vertical Slipfitter for 2"Tenon (2-3/8"OD)  | <b>LGS</b>             | Light Grey Gloss Smooth      | <b>AD-03 <sup>2</sup></b>       | AstroDIM: 50% output 10PM                                                                                                         | <b>TPL</b>                   | Tamper proof latch       |                       |                                                                                                                                                                 |
| <b>WB</b>   | Wall Bracket                                      | <b>LGT</b>             | Light Grey Matte Textured    | <b>AD-04 <sup>2</sup></b>       | AstroDIM: 50% output 10PM to 4AM                                                                                                  | <b>CP <sup>5,6,12</sup></b>  | Clear Polycarbonate Lens |                       |                                                                                                                                                                 |
|             |                                                   | <b>PSS</b>             | Platinum Silver Gloss Smooth | <b>NXW</b>                      | NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor                                                |                              |                          |                       |                                                                                                                                                                 |
|             |                                                   | <b>VGT</b>             | Verde Green Matte Textured   | <b>WSP-40F-1 <sup>2,5</sup></b> | Dimming Occ. Sensor for up to 40' MH, 120/277/347V                                                                                |                              |                          |                       |                                                                                                                                                                 |
|             |                                                   | <b>WHS</b>             | White Gloss Smooth           | <b>WSP-40F-2 <sup>2,5</sup></b> | Dimming Occ. Sensor for up to 40' MH, 208/240V                                                                                    |                              |                          |                       |                                                                                                                                                                 |
|             |                                                   | <b>WHT</b>             | White Matte Textured         | <b>WSP-40F-3 <sup>2,5</sup></b> | Dimming Occ. Sensor for up to 40' MH, 480V                                                                                        |                              |                          |                       |                                                                                                                                                                 |
|             |                                                   | <b>Color Option</b>    |                              | <b>NXWS16F <sup>2,5</sup></b>   | NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming |                              |                          |                       |                                                                                                                                                                 |
|             |                                                   | <b>CC <sup>7</sup></b> | Custom Color                 | <b>NXWS40F <sup>2,5</sup></b>   | NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming |                              |                          |                       |                                                                                                                                                                 |

- <sup>1</sup> Not available with 5QM, 5QN, and 5W distributions.

<sup>2</sup> Not available with other sensor or wireless control options

<sup>4</sup> Not available with 347V and 480V.

<sup>5</sup> 24L and 56L only

<sup>6</sup> Not available with HDL option

<sup>7</sup> Consult factory for custom color, marine and corrosive finish options.
- <sup>8</sup> Turtle Friendly.

<sup>9</sup> Please see Delivered Lumens chart on Page 5 for lumen

<sup>11</sup> Not available with 24L-65 and the 56L-140 configuration of the LED Engine

<sup>12</sup> IK10 rated. Consult factory for details

<sup>13</sup> IK08 rated. Consult factory for details

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ARCHITECTURAL AREA/SITE

## OUTDOOR LIGHTING CONTROLS OPTIONS

### CONTROLS FUNCTIONALITY

LIGHTGRID<sup>+</sup>



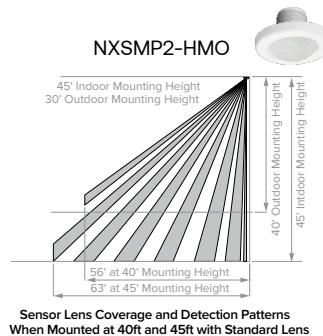
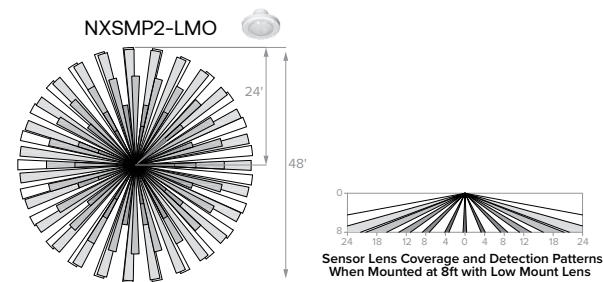
| Control Option Ordering<br>Logic & Description |               | Control Option Functionality |          |            |                                    |                        |               |                |                              |                  | Control Option<br>Components |
|------------------------------------------------|---------------|------------------------------|----------|------------|------------------------------------|------------------------|---------------|----------------|------------------------------|------------------|------------------------------|
|                                                |               | Networkable                  | Grouping | Scheduling | Occupancy/<br>Motion               | Daylight<br>Harvesting | 0-10V Dimming | On/Off Control | Bluetooth App<br>Programming | Sensor<br>Height |                              |
| NX Wireless                                    | NXOFM1RID-UNV | ✓                            | ✓        | ✓          | Paired with<br>external<br>control | ✓                      | ✓             | ✓              | ✓                            | -                | NXOFM1RID-UNV                |
|                                                | NXW           | ✓                            | ✓        | ✓          | -                                  | -                      | ✓             | ✓              | ✓                            | -                | NXRM2-H                      |
|                                                | NXWS16F       | ✓                            | ✓        | ✓          | ✓                                  | ✓                      | ✓             | ✓              | ✓                            | 16ft             | NXSMP2-LMO                   |
|                                                | NXWS40F       | ✓                            | ✓        | ✓          | ✓                                  | ✓                      | ✓             | ✓              | ✓                            | 40ft             | NXSMP2-HMO                   |

## DEFAULT SETTINGS

|                                       |                              |            |
|---------------------------------------|------------------------------|------------|
| NX Wireless                           | Occupancy Sensor             | Enabled    |
|                                       | Occupancy Sensor Sensitivity | 7          |
|                                       | Occupancy Sensor Timeout     | 15 Minutes |
|                                       | Occupied Dim Level           | 100%       |
|                                       | Unoccupied Dim Level         | 0%         |
|                                       | Daylight Sensor              | Disabled   |
|                                       | Bluetooth                    | Enabled    |
|                                       | 2.4GHz Wireless Mesh         | On         |
| "Passcode Factory Passcode: HubbN3T!" |                              | Enabled    |

|             |                              |           |
|-------------|------------------------------|-----------|
| Stand Alone | Occupancy Sensor             | Enabled   |
|             | Occupancy Sensor Sensitivity | 7         |
|             | Occupancy Sensor Timeout     | 8 Minutes |
|             | Occupied Dim Level           | 100%      |
|             | Unoccupied Dim Level         | 50%       |
|             | Daylight Sensor              | Disabled  |

## NX WIRELESS COVERAGE PATTERNS



## NX LIGHTING CONTROLS FREE APP

## CONTROLS TECH SUPPORT 800-888-8006 (7:00 AM - 7:00 PM)



The NX Lighting Controls App is free to use mobile application for programming both NX Lighting Controls System or Standalone Bluetooth Sensors. The mobile app allows you to configure devices, discover and setup wireless enable luminaires and program NX system settings.

Apple App: <https://apps.apple.com/us/app/nx-lighting-controls/id962112904>

Google Play: [https://play.google.com/store/apps/details?id=io.cordova.NX8TR&hl=en\\_US&gl=US](https://play.google.com/store/apps/details?id=io.cordova.NX8TR&hl=en_US&gl=US)



Apple App



Google Play

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OUTDOOR LIGHTING CONTROLS OPTIONS

CONTROLS FUNCTIONALITY

|             | Control Option Ordering<br>Logic & Description |                                    | Control Option Functionality |          |                                    |                      |                                    |               |                                    |                              |                  | Control Option<br>Components                                                               |
|-------------|------------------------------------------------|------------------------------------|------------------------------|----------|------------------------------------|----------------------|------------------------------------|---------------|------------------------------------|------------------------------|------------------|--------------------------------------------------------------------------------------------|
|             |                                                |                                    | Networkable                  | Grouping | Scheduling                         | Occupancy/<br>Motion | Daylight<br>Harvesting             | 0-10V Dimming | On/Off Control                     | Bluetooth App<br>Programming | Sensor<br>Height |                                                                                            |
| Independent | AD                                             | AutoDIM Time of Day Dimming        | -                            | -        | ✓                                  | -                    | -                                  | -             | ✓                                  | -                            | -                | ADT                                                                                        |
|             | 7PR                                            | 7-Pin Receptacle                   | -                            | -        | Paired with<br>external<br>control | -                    | Paired with<br>external<br>control | -             | Paired with<br>external<br>control | -                            | -                | 7PR                                                                                        |
|             | 7PR-SC                                         | 7-Pin Receptacle with shorting cap | -                            | -        | -                                  | -                    | -                                  | -             | -                                  | -                            | -                |  7PR-SC |
|             | 7PR-TL                                         | 7-Pin with photocontrol            | -                            | -        | -                                  | -                    | ✓                                  | -             | ✓                                  | -                            | -                |  7PR-TL |

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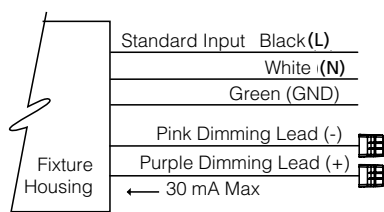
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## SPECIFICATIONS (CONTINUED)

### CONTROLS (CONTINUED)

#### DIMMING:

- Dimming range from 100% to 10% through the use of the standard 0-10V interface on the programmable driver.
- Modular wiring harness in the service area provides user access to the dimming circuitry.
- Dimming circuitry compatible with 0-10V, user-defined control devices.
- Optional factory programmed dimming profile.



#### WIRELESS CONTROLS

##### LightGRID+™

- LightGRID+™ wireless control modules allow an individual fixture to be managed, monitored and measured. The modules communicate securely over a robust certified meshed radio signal. The LightGRID+™ modules provide on/off/dim control, external device input, alerts and metering.

##### WIR-RME-L

- LightGRID+™ External Module, 120-480V, 1000ft range (LOS), Internal Photocell, 1 Digital Input, Compatible with the A-25-7H option

#### NX LIGHTING CONTROLS

- NX lighting controls platform utilizes a Distributed Network Architecture (DNA) that connects intelligent devices including luminaires, controllers, panels, occupancy sensors, photocells, wall switches and dimmers, creating a system with an unmatched level of reliability, scalability and simplicity

#### POLE MOUNTED

##### ROUND POLE-MOUNTED OCCUPANCY

Sensor up to 30'. Select voltage and finish color.

##### SCH-R

Round Pole-Mounted Occupancy Sensor: up to 30' - an outdoor occupancy sensor with 0-10V interface dimming control that mounts directly to the pole. Wide 360° pattern. Module colors are available in Black, Gray, and White. Module is cut for round pole mounting. Pole diameter is needed upon order. Poles to be drilled in the field will be provided with installation instructions.

- Ordering Example: SCH-R4/277/BL<sup>3</sup>

##### SQUARE POLE-MOUNTED OCCUPANCY

Sensor up to 30'. Select voltage and finish color.

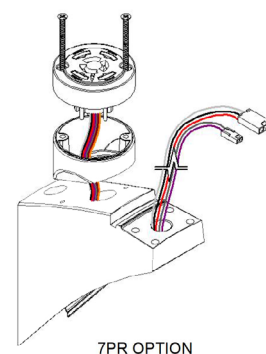
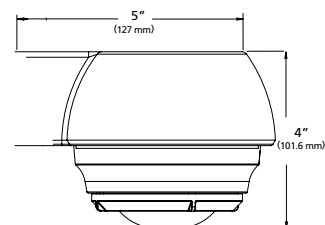
##### SCH-S

Square Pole-Mounted Occupancy Sensor: up to 30' - an outdoor occupancy sensor with 0-10V interface dimming control that mounts directly to the pole. Wide 360° pattern. Module colors are available in Black, Gray, and White. Module is cut for round pole mounting. Pole diameter is needed upon order. Poles to be drilled in the field will be provided with installation instructions.

- Ordering Example: SCH-S/277/BL<sup>3</sup>

#### ASTRODIM

- AstroDIM provides multi-stage night-time power reduction based on an internal timer referenced to the power on/off time. There is no need for an external control infrastructure. The unit automatically performs a dimming profile based on the predefined scheduled reference to the midpoint, which is calculated based on the power on/off times.



(Specifications continued on page 4)

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## SPECIFICATIONS (CONTINUED)

### MOUNTING

- High temperature fuse holders factory installed inside the fixture housing.
- Fuse is included.

### SUPPORT ARM:

- Die-cast, low copper aluminum alloy, with splice access cover.
- Die-cast pole adapter and an internal reinforcing plate are provided with a wire strain relief.
- The arm adapter is square or circular cut for specified pole size and shape.
- For field wire connections, a terminal block is mounted in the arm cavity and accessible behind the splice access cover. The block accepts #14 to #8 wire sizes and is factory prewired to the electrical module's quick-disconnect plug inside the electrical compartment.

### OPTIONAL SLIP-FITTER:

- Internally accessible slip-fitter attaches to a 1-1/4" to 2-3/8" tenon and allows hands-free wiring and maintenance.

### OPTIONAL WALL MOUNT:

- Optional, cast aluminum mounting plate attaches to a wall over a junction box and the speed mount is bolted to the cover plate. To complete the wiring, the luminaire assembly slides over the mounting plate.

### OPTIONAL FUSING:

- SF for 120, 277, and 347 Line volts
- DF for 208, 240, and 480 Line volts

### CAUTION

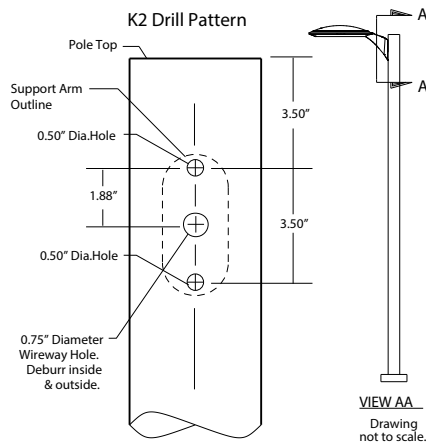
- Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.

### CERTIFICATIONS AND LISTINGS

- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40°C ambient temperatures
- ANSI C136.31-2010 Vibration tested and compliant 1.5G and 4G reference page 5
- IEC 66262 Mechanical Impact Code IK08, IK10
- IDA approved, 3000K and warmer CCTs only.
- IP66 certified
- RoHS compliant

### WARRANTY

- 5 year warranty

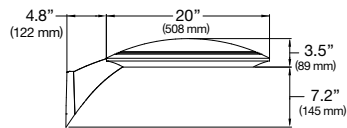


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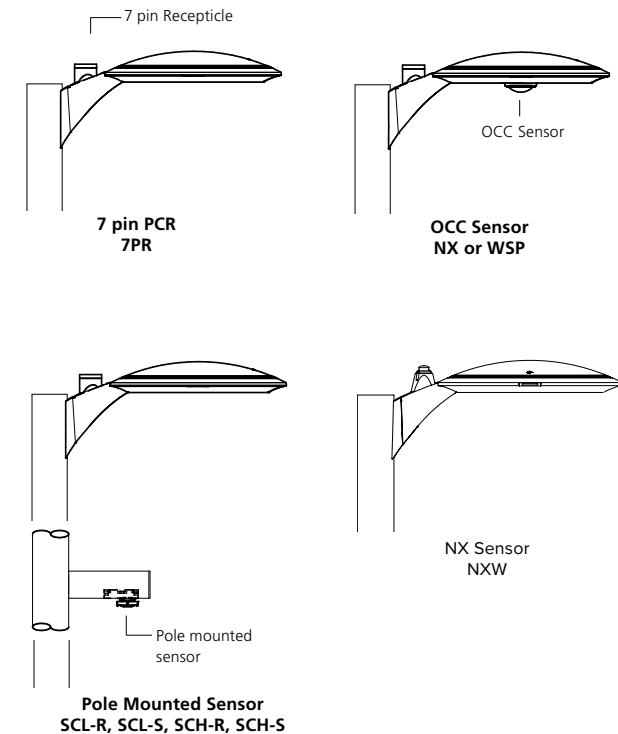
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DIMENSIONS



Weight: 32 lbs   EPA: .372

SENSOR PLACEMENT



MOUNTING VIBRATION RATINGS

| UR 20 Arm     |        | UR28 Arm      |        | UR 20 Post Top |        | UR 28 Post Top |        |
|---------------|--------|---------------|--------|----------------|--------|----------------|--------|
| Ordering Code | Rating | Ordering Code | Rating | Ordering Code  | Rating | Ordering Code  | Rating |
| ASQ           | 4G     | ASQ           | 4G     | FM33           | 4G     | FM44           | 1.5G   |
| A34           | 4G     | A34           | 4G     | FM44           | 1.5G   | FM45           | 1.5G   |
| A46           | 4G     | A46           | 4G     | PT23           | 4G     | PT24           | 1.5G   |
| MAF           | 4G     | MAF           | 4G     | PT24           | 4G     | PT34           | 1.5G   |
|               |        |               |        | PT34           | 1.5G   | PT25           | 1.5G   |
|               |        |               |        |                |        | PT35           | 1.5G   |

For the 4 G test, ANSI C136.31-2010 Vibration is tested to comply with Vibration Test Level 1 Normal Applications, Vibration Test Level 2 Bridge/Overpass Applications, and Vibration Test Level 3

For the 1.5G test, ANSI C136.31-2010 Vibration is tested to comply with Vibration Level 1 Bridge/Overpass Applications

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## DELIVERED LUMENS

| LEDs # | Lumens Package | Drive Current | Nominal Watts | Lens Options | Distribution | 3000K 70CRI |            |   |   |      | 4000K 70CRI |            |   |   |      | 5000K 70CRI |            |   |   |      |
|--------|----------------|---------------|---------------|--------------|--------------|-------------|------------|---|---|------|-------------|------------|---|---|------|-------------|------------|---|---|------|
|        |                |               |               |              |              | Lumen       | BUG Rating |   |   | lm/w | Lumen       | BUG Rating |   |   | lm/w | Lumen       | BUG Rating |   |   | lm/w |
|        |                |               |               |              |              |             | B          | U | G |      |             | B          | U | G |      |             | B          | U | G |      |
| 24L    | 3,000          | 298mA         | 25            | No lens      | FR           | 3258        | 0          | 0 | 0 | 128  | 3467        | 0          | 0 | 0 | 136  | 3443        | 0          | 0 | 0 | 135  |
|        |                |               |               |              | FR-BC        | 2141        | 0          | 0 | 0 | 84   | 2278        | 0          | 0 | 0 | 89   | 2263        | 0          | 0 | 0 | 89   |
|        |                |               |               |              | 2            | 3107        | 1          | 0 | 1 | 122  | 3306        | 1          | 0 | 1 | 130  | 3284        | 1          | 0 | 1 | 129  |
|        |                |               |               |              | 2-BC         | 1849        | 0          | 0 | 0 | 73   | 1967        | 0          | 0 | 0 | 77   | 1954        | 0          | 0 | 0 | 77   |
|        |                |               |               |              | 3            | 3128        | 2          | 0 | 1 | 123  | 3329        | 2          | 0 | 1 | 131  | 3306        | 2          | 0 | 1 | 130  |
|        |                |               |               |              | 3-BC         | 1870        | 0          | 0 | 1 | 73   | 1990        | 0          | 0 | 1 | 78   | 1977        | 0          | 0 | 1 | 78   |
|        |                |               |               |              | 4            | 3118        | 0          | 0 | 1 | 122  | 3318        | 0          | 0 | 1 | 130  | 3295        | 0          | 0 | 1 | 129  |
|        |                |               |               |              | 4-BC         | 2330        | 0          | 0 | 1 | 92   | 2479        | 0          | 0 | 1 | 97   | 2462        | 0          | 0 | 1 | 97   |
|        |                |               |               |              | 4W           | 3242        | 1          | 0 | 1 | 127  | 3449        | 1          | 0 | 1 | 135  | 3426        | 1          | 0 | 1 | 135  |
|        |                |               |               |              | 4W-BC        | 2011        | 0          | 0 | 1 | 79   | 2140        | 0          | 0 | 1 | 84   | 2125        | 0          | 0 | 1 | 83   |
|        |                |               |               |              | 5QM          | 2999        | 2          | 0 | 0 | 118  | 3191        | 2          | 0 | 0 | 125  | 3169        | 2          | 0 | 0 | 124  |
|        |                |               |               |              | 5QN          | 2888        | 2          | 0 | 0 | 113  | 3073        | 2          | 0 | 0 | 121  | 3052        | 2          | 0 | 0 | 120  |
|        |                |               |               |              | 5R           | 3092        | 2          | 0 | 2 | 121  | 3291        | 2          | 0 | 2 | 129  | 3268        | 2          | 0 | 2 | 128  |
|        |                |               |               |              | 5W           | 3059        | 2          | 0 | 1 | 120  | 3255        | 2          | 0 | 1 | 128  | 3233        | 2          | 0 | 1 | 127  |
|        |                |               |               | clear lens   | FR           | 3083        | 0          | 0 | 0 | 121  | 3280        | 0          | 0 | 0 | 128  | 3258        | 0          | 0 | 0 | 128  |
|        |                |               |               |              | FR-BC        | 2026        | 0          | 0 | 0 | 79   | 2155        | 0          | 0 | 0 | 84   | 2141        | 0          | 0 | 0 | 84   |
|        |                |               |               |              | 2            | 2940        | 1          | 0 | 1 | 115  | 3128        | 1          | 0 | 1 | 123  | 3107        | 1          | 0 | 1 | 122  |
|        |                |               |               |              | 2-BC         | 1749        | 0          | 0 | 0 | 68   | 1861        | 0          | 0 | 0 | 73   | 1848        | 0          | 0 | 0 | 72   |
|        |                |               |               |              | 3            | 2959        | 1          | 0 | 1 | 116  | 3149        | 1          | 0 | 1 | 123  | 3127        | 1          | 0 | 1 | 122  |
|        |                |               |               |              | 3-BC         | 1732        | 0          | 0 | 1 | 68   | 1843        | 0          | 0 | 1 | 72   | 1830        | 0          | 0 | 1 | 72   |
|        |                |               |               |              | 4            | 2950        | 0          | 0 | 1 | 116  | 3139        | 0          | 0 | 1 | 123  | 3117        | 0          | 0 | 1 | 122  |
|        |                |               |               |              | 4-BC         | 1847        | 0          | 0 | 1 | 72   | 1966        | 0          | 0 | 1 | 77   | 1952        | 0          | 0 | 0 | 76   |
|        |                |               |               |              | 4W           | 3067        | 1          | 0 | 1 | 120  | 3263        | 1          | 0 | 1 | 128  | 3241        | 1          | 0 | 1 | 127  |
|        |                |               |               |              | 4W-BC        | 1903        | 0          | 0 | 1 | 75   | 2025        | 0          | 0 | 1 | 79   | 2011        | 0          | 0 | 1 | 79   |
|        |                |               |               |              | 5QM          | 2837        | 2          | 0 | 0 | 111  | 3019        | 2          | 0 | 0 | 118  | 2998        | 2          | 0 | 0 | 117  |
|        |                |               |               |              | 5QN          | 2732        | 2          | 0 | 0 | 107  | 2907        | 2          | 0 | 0 | 114  | 2887        | 2          | 0 | 0 | 113  |
|        |                |               |               |              | 5R           | 2926        | 2          | 0 | 2 | 115  | 3113        | 2          | 0 | 2 | 122  | 3092        | 2          | 0 | 2 | 121  |
|        |                |               |               |              | 5W           | 2894        | 2          | 0 | 1 | 113  | 3079        | 2          | 0 | 1 | 121  | 3058        | 2          | 0 | 1 | 120  |
| 28L    |                | 298mA         | 30            | HDL lens     | 3            | 2880        | 1          | 0 | 1 | 99   | 3065        | 1          | 0 | 1 | 105  | 2971        | 1          | 0 | 1 | 102  |
|        |                |               |               |              | 5W           | 2946        | 1          | 0 | 1 | 101  | 3134        | 1          | 0 | 1 | 107  | 3113        | 1          | 0 | 1 | 106  |

Scaling factors 27K8 = 0.859, 35K8 = 0.906 of 5K7 lumen packages



# UR20-Arm Mount

ARCHITECTURAL AREA/SITE

## DELIVERED LUMENS (CONTINUED)

| LEDs # | Lumens Package | Drive Current | Nominal Watts | Lens Options | Distribution | 3000K 70CRI |            |   |     |      | 4000K 70CRI |            |   |     |      | 5000K 70CRI |            |   |     |      |
|--------|----------------|---------------|---------------|--------------|--------------|-------------|------------|---|-----|------|-------------|------------|---|-----|------|-------------|------------|---|-----|------|
|        |                |               |               |              |              | Lumen       | BUG Rating |   |     | lm/w | Lumen       | BUG Rating |   |     | lm/w | Lumen       | BUG Rating |   |     | lm/w |
|        |                |               |               |              |              |             | B          | U | G   |      |             | B          | U | G   |      |             | B          | U | G   |      |
| 24L    | 7,000          | 800mA         | 65            | No lens      | FR           | 7507        | 1          | 0 | 1   | 115  | 7988        | 1          | 0 | 1   | 123  | 7933        | 1          | 0 | 1   | 122  |
|        |                |               |               |              | FR-BC        | 4717        | 0          | 0 | 0   | 73   | 5019        | 0          | 0 | 0   | 77   | 4985        | 0          | 0 | 0   | 77   |
|        |                |               |               |              | 2            | 6938        | 1          | 0 | 2   | 107  | 7382        | 1          | 0 | 2   | 114  | 7332        | 1          | 0 | 2   | 113  |
|        |                |               |               |              | 2-BC         | 4072        | 0          | 0 | 1   | 63   | 4334        | 0          | 0 | 1   | 67   | 4304        | 0          | 0 | 1   | 66   |
|        |                |               |               |              | 3            | 6892        | 1          | 0 | 2   | 106  | 7333        | 1          | 0 | 2   | 113  | 7283        | 1          | 0 | 2   | 112  |
|        |                |               |               |              | 3-BC         | 4121        | 0          | 0 | 1   | 63   | 4385        | 0          | 0 | 1   | 67   | 4355        | 0          | 0 | 1   | 67   |
|        |                |               |               |              | 4            | 6927        | 1          | 0 | 2   | 107  | 7371        | 1          | 0 | 2   | 113  | 7320        | 1          | 0 | 2   | 113  |
|        |                |               |               |              | 4-BC         | 5133        | 0          | 0 | 2   | 79   | 5461        | 0          | 0 | 2   | 84   | 5424        | 0          | 0 | 2   | 83   |
|        |                |               |               |              | 4W           | 7055        | 1          | 0 | 2   | 109  | 7507        | 1          | 0 | 2   | 115  | 7456        | 1          | 0 | 2   | 115  |
|        |                |               |               |              | 4W-BC        | 4431        | 0          | 0 | 2   | 68   | 4715        | 0          | 0 | 2   | 73   | 4682        | 0          | 0 | 2   | 72   |
|        |                |               |               |              | 5QM          | 7188        | 3          | 0 | 1   | 111  | 7649        | 3          | 0 | 1   | 118  | 7597        | 3          | 0 | 1   | 117  |
|        |                |               |               |              | 5QN          | 7465        | 3          | 0 | 0   | 115  | 7944        | 3          | 0 | 0   | 122  | 7889        | 3          | 0 | 0   | 121  |
|        |                |               |               |              | 5R           | 7125        | 3          | 0 | 3   | 110  | 7582        | 3          | 0 | 3   | 117  | 7530        | 3          | 0 | 3   | 116  |
|        |                |               |               |              | 5W           | 7048        | 3          | 0 | 2   | 108  | 7499        | 3          | 0 | 2   | 115  | 7448        | 3          | 0 | 2   | 115  |
|        |                |               |               | clear lens   | FR           | 7149        | 1          | 0 | 1   | 108  | 7607        | 1          | 0 | 1   | 115  | 7555        | 1          | 0 | 1   | 114  |
|        |                |               |               |              | FR-BC        | 4492        | 0          | 0 | 0   | 68   | 4780        | 0          | 0 | 0   | 72   | 4747        | 0          | 0 | 0   | 72   |
|        |                |               |               |              | 2            | 6607        | 1          | 0 | 2   | 100  | 7030        | 1          | 0 | 2   | 107  | 6982        | 1          | 0 | 2   | 106  |
|        |                |               |               |              | 2-BC         | 3878        | 0          | 0 | 1   | 59   | 4127        | 0          | 0 | 1   | 63   | 4099        | 0          | 0 | 1   | 62   |
|        |                |               |               |              | 3            | 6563        | 1          | 0 | 2   | 99   | 6984        | 1          | 0 | 2   | 106  | 6936        | 1          | 0 | 2   | 105  |
|        |                |               |               |              | 3-BC         | 3841        | 0          | 0 | 1   | 59   | 4087        | 0          | 0 | 1   | 63   | 4059        | 0          | 0 | 1   | 62   |
|        |                |               |               |              | 4            | 6597        | 1          | 0 | 2   | 100  | 7019        | 1          | 0 | 2   | 106  | 6971        | 1          | 0 | 2   | 106  |
|        |                |               |               |              | 4-BC         | 4888        | 0          | 0 | 2   | 74   | 5201        | 0          | 0 | 2   | 79   | 5165        | 0          | 0 | 2   | 78   |
|        |                |               |               |              | 4W           | 6719        | 1          | 0 | 2   | 102  | 7149        | 1          | 0 | 2   | 108  | 7100        | 1          | 0 | 2   | 108  |
|        |                |               |               |              | 4W-BC        | 4219        | 0          | 0 | 2   | 64   | 4490        | 0          | 0 | 2   | 68   | 4459        | 0          | 0 | 2   | 68   |
|        |                |               |               |              | 5QM          | 6846        | 3          | 0 | 1   | 104  | 7284        | 3          | 0 | 1   | 110  | 7235        | 3          | 0 | 1   | 110  |
|        |                |               |               |              | 5QN          | 7109        | 3          | 0 | 0   | 108  | 7565        | 3          | 0 | 0   | 115  | 7513        | 3          | 0 | 0   | 114  |
|        |                |               |               |              | 5R           | 6785        | 3          | 0 | 3   | 103  | 7220        | 3          | 0 | 3   | 109  | 7171        | 3          | 0 | 3   | 109  |
|        |                |               |               |              | 5W           | 6711        | 3          | 0 | 1   | 102  | 7142        | 3          | 0 | 1   | 108  | 7093        | 3          | 0 | 1   | 107  |
| 28L    | 700mA          | 70            | HDL lens      | 3            | 6481         | 2           | 0          | 2 | 98  | 6897 | 2           | 0          | 2 | 104 | 6685 | 2           | 0          | 2 | 96  |      |
|        |                |               |               | 5W           | 6628         | 2           | 0          | 1 | 100 | 7053 | 2           | 0          | 1 | 107 | 6952 | 2           | 0          | 1 | 100 |      |

Scaling factors 27K8 = 0.859, 35K8 = 0.906 of 5K7 lumen packages

# UR20-Arm Mount

ARCHITECTURAL AREA/SITE

## DELIVERED LUMENS (CONTINUED)

| LEDs # | Lumens Package | Drive Current | Nominal Watts | Lens Options | Distribution | 3000K 70CRI |            |   |     |      | 4000K 70CRI |            |   |     |      | 5000K 70CRI |            |   |     |      |
|--------|----------------|---------------|---------------|--------------|--------------|-------------|------------|---|-----|------|-------------|------------|---|-----|------|-------------|------------|---|-----|------|
|        |                |               |               |              |              | Lumen       | BUG Rating |   |     | lm/w | Lumen       | BUG Rating |   |     | lm/w | Lumen       | BUG Rating |   |     | lm/w |
|        |                |               |               |              |              |             | B          | U | G   |      |             | B          | U | G   |      |             | B          | U | G   |      |
| 56L    | 10,000         | 420mA         | 75            | No lens      | FR           | 10354       | 1          | 0 | 1   | 138  | 11018       | 1          | 0 | 1   | 146  | 10942       | 1          | 0 | 1   | 145  |
|        |                |               |               |              | FR-BC        | 6506        | 0          | 0 | 1   | 87   | 6923        | 0          | 0 | 1   | 92   | 6875        | 0          | 0 | 1   | 92   |
|        |                |               |               |              | 2            | 9569        | 2          | 0 | 2   | 127  | 10182       | 2          | 0 | 2   | 135  | 10112       | 2          | 0 | 2   | 134  |
|        |                |               |               |              | 2-BC         | 5617        | 0          | 0 | 1   | 75   | 5977        | 0          | 0 | 1   | 80   | 5936        | 0          | 0 | 1   | 79   |
|        |                |               |               |              | 3            | 9505        | 1          | 0 | 2   | 125  | 10114       | 1          | 0 | 2   | 134  | 10045       | 1          | 0 | 2   | 133  |
|        |                |               |               |              | 3-BC         | 5683        | 0          | 0 | 2   | 76   | 6047        | 0          | 0 | 2   | 81   | 6006        | 0          | 0 | 2   | 79   |
|        |                |               |               |              | 4            | 9554        | 1          | 0 | 2   | 127  | 10166       | 1          | 0 | 2   | 135  | 10078       | 1          | 0 | 2   | 134  |
|        |                |               |               |              | 4-BC         | 7079        | 0          | 0 | 2   | 94   | 7533        | 0          | 0 | 2   | 100  | 7481        | 0          | 0 | 2   | 99   |
|        |                |               |               |              | 4W           | 9731        | 1          | 0 | 2   | 129  | 10355       | 2          | 0 | 3   | 138  | 10284       | 2          | 0 | 3   | 137  |
|        |                |               |               |              | 4W-BC        | 6111        | 0          | 0 | 2   | 81   | 6503        | 0          | 0 | 2   | 87   | 6458        | 0          | 0 | 2   | 86   |
|        |                |               |               |              | 5QM          | 9915        | 3          | 0 | 1   | 132  | 10550       | 3          | 0 | 2   | 140  | 10478       | 3          | 0 | 2   | 139  |
|        |                |               |               |              | 5QN          | 10296       | 3          | 0 | 1   | 137  | 10956       | 3          | 0 | 1   | 146  | 10881       | 3          | 0 | 1   | 145  |
|        |                |               |               |              | 5R           | 9827        | 3          | 0 | 3   | 131  | 10457       | 3          | 0 | 3   | 139  | 10385       | 3          | 0 | 3   | 138  |
|        |                |               |               |              | 5W           | 9720        | 4          | 0 | 2   | 129  | 10343       | 4          | 0 | 2   | 137  | 10272       | 4          | 0 | 2   | 137  |
|        |                |               |               | clear lens   | FR           | 9860        | 1          | 0 | 1   | 130  | 10492       | 1          | 0 | 1   | 139  | 10420       | 1          | 0 | 1   | 138  |
|        |                |               |               |              | FR-BC        | 6196        | 0          | 0 | 0   | 83   | 6593        | 0          | 0 | 1   | 88   | 6547        | 0          | 0 | 1   | 87   |
|        |                |               |               |              | 2            | 9112        | 1          | 0 | 2   | 120  | 9696        | 2          | 0 | 2   | 128  | 9630        | 2          | 0 | 2   | 127  |
|        |                |               |               |              | 2-BC         | 5349        | 0          | 0 | 1   | 71   | 5692        | 0          | 0 | 1   | 76   | 5653        | 0          | 0 | 1   | 75   |
|        |                |               |               |              | 3            | 9052        | 1          | 0 | 2   | 120  | 9632        | 1          | 0 | 2   | 127  | 9566        | 1          | 0 | 2   | 126  |
|        |                |               |               |              | 3-BC         | 5297        | 0          | 0 | 2   | 71   | 5637        | 0          | 0 | 2   | 75   | 5598        | 0          | 0 | 2   | 74   |
|        |                |               |               |              | 4            | 9098        | 1          | 0 | 2   | 120  | 9681        | 1          | 0 | 2   | 128  | 9615        | 1          | 0 | 2   | 127  |
|        |                |               |               |              | 4-BC         | 6741        | 0          | 0 | 2   | 90   | 7174        | 0          | 0 | 2   | 96   | 7124        | 0          | 0 | 2   | 95   |
|        |                |               |               |              | 4W           | 9267        | 1          | 0 | 2   | 122  | 9861        | 1          | 0 | 2   | 130  | 9793        | 1          | 0 | 2   | 129  |
|        |                |               |               |              | 4W-BC        | 5820        | 0          | 0 | 2   | 78   | 6193        | 0          | 0 | 2   | 83   | 6150        | 0          | 0 | 2   | 82   |
|        |                |               |               |              | 5QM          | 9442        | 3          | 0 | 1   | 125  | 10047       | 3          | 0 | 1   | 133  | 9978        | 3          | 0 | 1   | 132  |
|        |                |               |               |              | 5QN          | 9805        | 3          | 0 | 1   | 130  | 10434       | 3          | 0 | 1   | 138  | 10362       | 3          | 0 | 1   | 137  |
|        |                |               |               |              | 5R           | 9358        | 3          | 0 | 3   | 124  | 9958        | 3          | 0 | 3   | 132  | 9890        | 3          | 0 | 3   | 131  |
|        |                |               |               |              | 5W           | 9257        | 4          | 0 | 2   | 122  | 9850        | 4          | 0 | 2   | 130  | 9782        | 4          | 0 | 2   | 129  |
| 68L    | 350mA          | 80            | HDL lens      | 3            | 8418         | 2           | 0          | 2 | 107 | 8958 | 2           | 0          | 2 | 113 | 8896 | 2           | 0          | 2 | 113 |      |
|        |                |               |               | 5W           | 8609         | 3           | 0          | 1 | 109 | 9160 | 3           | 0          | 1 | 116 | 9252 | 3           | 0          | 1 | 117 |      |

Scaling factors 27K8 = 0.859, 35K8 = 0.906 of 5K7 lumen packages

# UR20-Arm Mount

ARCHITECTURAL AREA/SITE

## DELIVERED LUMENS (CONTINUED)

| LEDs # | Lumens Package | Drive Current | Nominal Watts | Lens Options | Distribution | 3000K 70CRI |            |   |   |      | 4000K 70CRI |            |   |   |      | 5000K 70CRI |            |   |   |      |
|--------|----------------|---------------|---------------|--------------|--------------|-------------|------------|---|---|------|-------------|------------|---|---|------|-------------|------------|---|---|------|
|        |                |               |               |              |              | Lumen       | BUG Rating |   |   | lm/w | Lumen       | BUG Rating |   |   | lm/w | Lumen       | BUG Rating |   |   | lm/w |
|        |                |               |               |              |              |             | B          | U | G |      |             | B          | U | G |      |             | B          | U | G |      |
| 56L    | 15,000         | 600mA         | 110           | No lens      | FR           | 15041       | 1          | 0 | 2 | 139  | 16005       | 1          | 0 | 2 | 147  | 15895       | 1          | 0 | 2 | 146  |
|        |                |               |               |              | FR-BC        | 9451        | 0          | 0 | 1 | 87   | 10056       | 0          | 0 | 1 | 93   | 9987        | 0          | 0 | 1 | 92   |
|        |                |               |               |              | 2            | 13900       | 2          | 0 | 2 | 128  | 14791       | 2          | 0 | 2 | 136  | 14689       | 2          | 0 | 2 | 135  |
|        |                |               |               |              | 2-BC         | 8159        | 0          | 0 | 2 | 75   | 8682        | 0          | 0 | 2 | 80   | 8623        | 0          | 0 | 2 | 79   |
|        |                |               |               |              | 3            | 13808       | 2          | 0 | 3 | 127  | 14692       | 2          | 0 | 3 | 135  | 14592       | 2          | 0 | 3 | 134  |
|        |                |               |               |              | 3-BC         | 8256        | 1          | 0 | 2 | 75   | 8785        | 1          | 0 | 2 | 80   | 8725        | 1          | 0 | 2 | 79   |
|        |                |               |               |              | 4            | 13878       | 1          | 0 | 3 | 128  | 14768       | 1          | 0 | 3 | 136  | 14667       | 1          | 0 | 3 | 135  |
|        |                |               |               |              | 4-BC         | 10283       | 1          | 0 | 2 | 95   | 10942       | 1          | 0 | 3 | 101  | 10867       | 1          | 0 | 3 | 100  |
|        |                |               |               |              | 4W           | 14135       | 2          | 0 | 3 | 130  | 15041       | 2          | 0 | 4 | 139  | 14938       | 2          | 0 | 3 | 138  |
|        |                |               |               |              | 4W-BC        | 8877        | 0          | 0 | 2 | 82   | 9446        | 0          | 0 | 2 | 87   | 9381        | 0          | 0 | 2 | 86   |
|        |                |               |               |              | 5QM          | 14402       | 4          | 0 | 2 | 133  | 15325       | 4          | 0 | 2 | 141  | 15220       | 4          | 0 | 2 | 140  |
|        |                |               |               |              | 5QN          | 14957       | 4          | 0 | 1 | 138  | 15915       | 4          | 0 | 1 | 147  | 15806       | 4          | 0 | 1 | 146  |
|        |                |               |               |              | 5R           | 14275       | 4          | 0 | 4 | 132  | 15190       | 4          | 0 | 4 | 140  | 15086       | 4          | 0 | 4 | 139  |
|        |                |               |               |              | 5W           | 14120       | 4          | 0 | 2 | 130  | 15025       | 4          | 0 | 2 | 138  | 14922       | 4          | 0 | 2 | 138  |
|        |                |               |               | clear lens   | FR           | 14230       | 1          | 0 | 1 | 132  | 15142       | 1          | 0 | 2 | 140  | 15038       | 1          | 0 | 2 | 139  |
|        |                |               |               |              | FR-BC        | 8941        | 0          | 0 | 1 | 83   | 9514        | 0          | 0 | 1 | 88   | 9449        | 0          | 0 | 1 | 87   |
|        |                |               |               |              | 2            | 13151       | 2          | 0 | 2 | 122  | 13994       | 2          | 0 | 2 | 129  | 13898       | 2          | 0 | 2 | 129  |
|        |                |               |               |              | 2-BC         | 7720        | 0          | 0 | 2 | 71   | 8215        | 0          | 0 | 2 | 76   | 8158        | 0          | 0 | 2 | 75   |
|        |                |               |               |              | 3            | 13064       | 2          | 0 | 2 | 121  | 13901       | 2          | 0 | 2 | 129  | 13806       | 2          | 0 | 2 | 128  |
|        |                |               |               |              | 3-BC         | 7645        | 1          | 0 | 2 | 69   | 8135        | 1          | 0 | 2 | 74   | 8079        | 1          | 0 | 2 | 73   |
|        |                |               |               |              | 4            | 13131       | 1          | 0 | 3 | 121  | 13972       | 1          | 0 | 3 | 129  | 13876       | 1          | 0 | 3 | 128  |
|        |                |               |               |              | 4-BC         | 9729        | 1          | 0 | 2 | 90   | 10353       | 1          | 0 | 2 | 94   | 10282       | 1          | 0 | 2 | 95   |
|        |                |               |               |              | 4W           | 13374       | 2          | 0 | 3 | 124  | 14231       | 2          | 0 | 3 | 132  | 14134       | 2          | 0 | 3 | 131  |
|        |                |               |               |              | 4W-BC        | 8399        | 0          | 0 | 2 | 78   | 8937        | 0          | 0 | 2 | 83   | 8876        | 0          | 0 | 2 | 82   |
|        |                |               |               |              | 5QM          | 13626       | 3          | 0 | 2 | 126  | 14500       | 4          | 0 | 2 | 134  | 14400       | 4          | 0 | 2 | 133  |
|        |                |               |               |              | 5QN          | 14151       | 4          | 0 | 1 | 131  | 15058       | 4          | 0 | 1 | 139  | 14955       | 4          | 0 | 1 | 138  |
|        |                |               |               |              | 5R           | 13506       | 4          | 0 | 4 | 125  | 14372       | 4          | 0 | 4 | 133  | 14273       | 4          | 0 | 4 | 132  |
|        |                |               |               |              | 5W           | 13359       | 4          | 0 | 2 | 124  | 14215       | 4          | 0 | 2 | 132  | 14118       | 4          | 0 | 2 | 131  |
| 68L    |                | 500mA         | 115           | HDL lens     | 3            | 12410       | 3          | 0 | 2 | 109  | 13206       | 3          | 0 | 3 | 116  | 13115       | 3          | 0 | 3 | 116  |
|        |                |               |               |              | 5W           | 12691       | 3          | 0 | 2 | 112  | 13505       | 3          | 0 | 2 | 119  | 13412       | 3          | 0 | 2 | 118  |

Scaling factors 27K8 = 0.859, 35K8 = 0.906 of 5K7 lumen packages

# UR20-Arm Mount

ARCHITECTURAL AREA/SITE

## DELIVERED LUMENS (CONTINUED)

| LEDs # | Lumens Package | Drive Current | Nominal Watts | Lens Options | Distribution | 3000K 70CRI |            |   |   |      | 4000K 70CRI |            |   |   |      | 5000K 70CRI |            |   |   |      |
|--------|----------------|---------------|---------------|--------------|--------------|-------------|------------|---|---|------|-------------|------------|---|---|------|-------------|------------|---|---|------|
|        |                |               |               |              |              | Lumen       | BUG Rating |   |   | lm/w | Lumen       | BUG Rating |   |   | lm/w | Lumen       | BUG Rating |   |   | lm/w |
|        |                |               |               |              |              |             | B          | U | G |      |             | B          | U | G |      |             | B          | U | G |      |
| 56L    | 17,000         | 750mA         | 140           | No lens      | FR           | 17031       | 2          | 0 | 2 | 124  | 18123       | 2          | 0 | 2 | 132  | 17999       | 2          | 0 | 2 | 131  |
|        |                |               |               |              | FR-BC        | 10701       | 0          | 0 | 1 | 78   | 11387       | 0          | 0 | 1 | 83   | 11309       | 0          | 0 | 1 | 82   |
|        |                |               |               |              | 2            | 15740       | 2          | 0 | 2 | 114  | 16748       | 2          | 0 | 2 | 122  | 16634       | 2          | 0 | 2 | 121  |
|        |                |               |               |              | 2-BC         | 9239        | 1          | 0 | 2 | 67   | 9831        | 1          | 0 | 2 | 71   | 9764        | 1          | 0 | 2 | 71   |
|        |                |               |               |              | 3            | 15635       | 2          | 0 | 3 | 113  | 16637       | 2          | 0 | 3 | 121  | 16523       | 2          | 0 | 3 | 120  |
|        |                |               |               |              | 3-BC         | 9348        | 1          | 0 | 2 | 67   | 9947        | 1          | 0 | 2 | 71   | 9879        | 1          | 0 | 2 | 71   |
|        |                |               |               |              | 4            | 15715       | 1          | 0 | 3 | 114  | 16722       | 1          | 0 | 3 | 121  | 16608       | 1          | 0 | 3 | 121  |
|        |                |               |               |              | 4-BC         | 11644       | 1          | 0 | 3 | 85   | 12391       | 1          | 0 | 3 | 90   | 12306       | 1          | 0 | 3 | 89   |
|        |                |               |               |              | 4W           | 16006       | 2          | 0 | 4 | 116  | 17032       | 2          | 0 | 4 | 124  | 16915       | 2          | 0 | 4 | 123  |
|        |                |               |               |              | 4W-BC        | 10052       | 1          | 0 | 2 | 73   | 10696       | 1          | 0 | 3 | 78   | 10623       | 1          | 0 | 3 | 77   |
|        |                |               |               |              | 5QM          | 16309       | 4          | 0 | 2 | 118  | 17354       | 4          | 0 | 2 | 126  | 17235       | 4          | 0 | 2 | 125  |
|        |                |               |               |              | 5QN          | 16936       | 4          | 0 | 1 | 123  | 18022       | 4          | 0 | 1 | 131  | 17898       | 4          | 0 | 1 | 130  |
|        |                |               |               |              | 5R           | 16164       | 4          | 0 | 4 | 117  | 17200       | 4          | 0 | 4 | 125  | 17082       | 4          | 0 | 4 | 124  |
|        |                |               |               |              | 5W           | 15989       | 4          | 0 | 2 | 116  | 17013       | 4          | 0 | 2 | 123  | 16897       | 4          | 0 | 2 | 123  |
|        |                |               |               | clear lens   | FR           | 16162       | 1          | 0 | 2 | 116  | 17198       | 2          | 0 | 2 | 124  | 17080       | 2          | 0 | 2 | 123  |
|        |                |               |               |              | FR-BC        | 10155       | 0          | 0 | 1 | 73   | 10659       | 0          | 0 | 1 | 77   | 10732       | 0          | 0 | 1 | 77   |
|        |                |               |               |              | 2            | 14936       | 2          | 0 | 2 | 108  | 15894       | 2          | 0 | 2 | 115  | 15785       | 2          | 0 | 2 | 114  |
|        |                |               |               |              | 2-BC         | 8768        | 1          | 0 | 2 | 63   | 9330        | 1          | 0 | 2 | 67   | 9266        | 1          | 0 | 2 | 67   |
|        |                |               |               |              | 3            | 14837       | 2          | 0 | 3 | 107  | 15788       | 2          | 0 | 3 | 114  | 15680       | 2          | 0 | 3 | 113  |
|        |                |               |               |              | 3-BC         | 8683        | 1          | 0 | 2 | 62   | 9239        | 1          | 0 | 2 | 66   | 9176        | 1          | 0 | 2 | 66   |
|        |                |               |               |              | 4            | 14913       | 1          | 0 | 3 | 107  | 15869       | 1          | 0 | 3 | 114  | 15760       | 1          | 0 | 3 | 114  |
|        |                |               |               |              | 4-BC         | 11050       | 1          | 0 | 3 | 80   | 11758       | 1          | 0 | 3 | 85   | 11678       | 1          | 0 | 3 | 84   |
|        |                |               |               |              | 4W           | 15189       | 2          | 0 | 4 | 109  | 16163       | 2          | 0 | 4 | 116  | 16052       | 2          | 0 | 4 | 116  |
|        |                |               |               |              | 4W-BC        | 9539        | 0          | 0 | 2 | 69   | 10150       | 1          | 0 | 2 | 73   | 10081       | 1          | 0 | 2 | 73   |
|        |                |               |               |              | 5QM          | 15476       | 4          | 0 | 2 | 112  | 16468       | 4          | 0 | 2 | 119  | 16355       | 4          | 0 | 2 | 118  |
|        |                |               |               |              | 5QN          | 16072       | 4          | 0 | 1 | 116  | 17102       | 4          | 0 | 1 | 123  | 16985       | 4          | 0 | 1 | 122  |
|        |                |               |               |              | 5R           | 15339       | 4          | 0 | 4 | 111  | 16323       | 4          | 0 | 4 | 118  | 16211       | 4          | 0 | 4 | 117  |
|        |                |               |               |              | 5W           | 15173       | 4          | 0 | 2 | 109  | 16145       | 4          | 0 | 2 | 116  | 16035       | 4          | 0 | 2 | 116  |
| 68L    |                | 625mA         | 150           | HDL lens     | 3            | 14192       | 3          | 0 | 3 | 96   | 14999       | 3          | 0 | 3 | 101  | 14896       | 3          | 0 | 3 | 101  |
|        |                |               |               |              | 5W           | 14514       | 3          | 0 | 2 | 98   | 15338       | 3          | 0 | 2 | 104  | 15233       | 3          | 0 | 2 | 103  |

Scaling factors 27K8 = 0.859, 35K8 = 0.906 of 5K7 lumen packages

# UR20-Arm Mount

ARCHITECTURAL AREA/SITE

## PHOTOMETRY

UR20-56L-140-4K7-FR

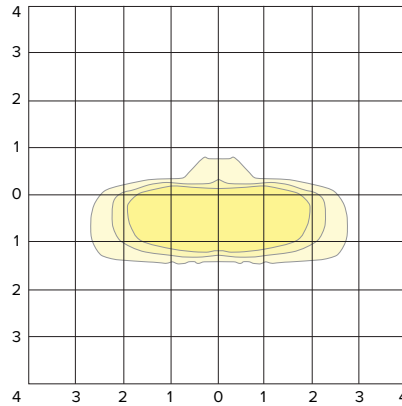
### LUMINAIRE DATA

|                  |              |
|------------------|--------------|
| Description      | 4000K, 70CRI |
| Delivered Lumens | 18123        |
| Watts            | 140          |
| Efficacy         | 129.5        |
| IES Type         | II           |
| BUG Rating       | B2-U0-G2     |
| Mounting Height  | 30 ft        |
| Grid Scale       | 30 ft        |

### ZONAL LUMEN SUMMARY

| Zone                 | Lumens | % Luminaire |
|----------------------|--------|-------------|
| Downward Street Side | 16164  | 89.2%       |
| Downward House Side  | 1959   | 10.8%       |
| Downward Total       | 18123  | 100%        |
| Upward Street Side   | 0      | 0%          |
| Upward House Side    | 0      | 0%          |
| Upward Total         | 0      | 0%          |
| Total Flux           | 18123  | 100%        |

### ISOFOOT CANDLE PLOT



UR20-56L-140-4K7-2

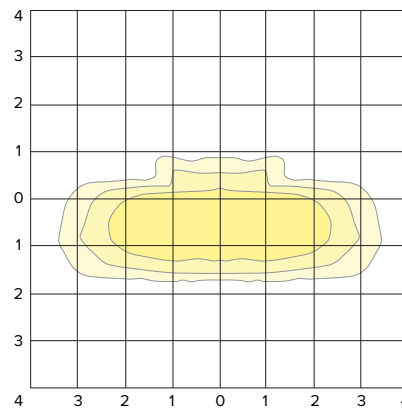
### LUMINAIRE DATA

|                  |              |
|------------------|--------------|
| Description      | 4000K, 70CRI |
| Delivered Lumens | 16748        |
| Watts            | 140          |
| Efficacy         | 119.6        |
| IES Type         | II           |
| BUG Rating       | B2-U0-G2     |
| Mounting Height  | 30 ft        |
| Grid Scale       | 30 ft        |

### ZONAL LUMEN SUMMARY

| Zone                 | Lumens | % Luminaire |
|----------------------|--------|-------------|
| Downward Street Side | 13888  | 82.9%       |
| Downward House Side  | 2860   | 17.1%       |
| Downward Total       | 16748  | 100%        |
| Upward Street Side   | 0      | 0%          |
| Upward House Side    | 0      | 0%          |
| Upward Total         | 0      | 0%          |
| Total Flux           | 16748  | 100%        |

### ISOFOOT CANDLE PLOT



UR20-56L-140-4K7-3

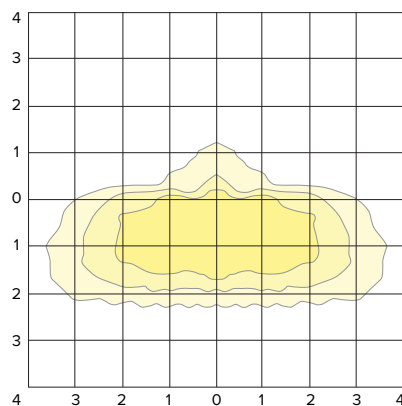
### LUMINAIRE DATA

|                  |              |
|------------------|--------------|
| Description      | 4000K, 70CRI |
| Delivered Lumens | 16637        |
| Watts            | 140          |
| Efficacy         | 118.8        |
| IES Type         | III          |
| BUG Rating       | B2-U0-G3     |
| Mounting Height  | 30 ft        |
| Grid Scale       | 30 ft        |

### ZONAL LUMEN SUMMARY

| Zone                 | Lumens | % Luminaire |
|----------------------|--------|-------------|
| Downward Street Side | 14461  | 86.9%       |
| Downward House Side  | 2176   | 13.1%       |
| Downward Total       | 16637  | 100%        |
| Upward Street Side   | 0      | 0%          |
| Upward House Side    | 0      | 0%          |
| Upward Total         | 0      | 0%          |
| Total Flux           | 16637  | 100%        |

### ISOFOOT CANDLE PLOT



# UR20-Arm Mount

ARCHITECTURAL AREA/SITE

## PHOTOMETRY

UR20-56L-140-4K7-4

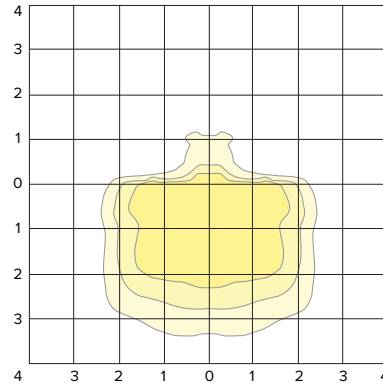
### LUMINAIRE DATA

|                  |              |
|------------------|--------------|
| Description      | 4000K, 70CRI |
| Delivered Lumens | 16722        |
| Watts            | 140          |
| Efficacy         | 119.4        |
| IES Type         | IV           |
| BUG Rating       | B1-U0-G3     |
| Mounting Height  | 30 ft        |
| Grid Scale       | 30 ft        |

### ZONAL LUMEN SUMMARY

| Zone                 | Lumens | % Luminaire |
|----------------------|--------|-------------|
| Downward Street Side | 15112  | 90.4%       |
| Downward House Side  | 1610   | 9.6%        |
| Downward Total       | 16722  | 100%        |
| Upward Street Side   | 0      | 0%          |
| Upward House Side    | 0      | 0%          |
| Upward Total         | 0      | 0%          |
| Total Flux           | 16722  | 100%        |

### ISOFOOT CANDLE PLOT



UR20-56L-140-4K7-4W

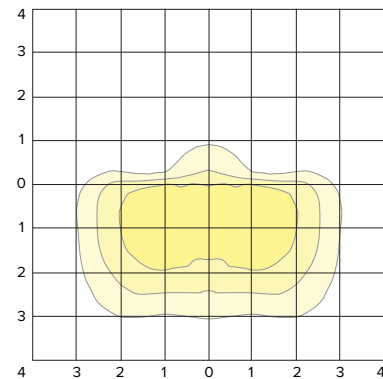
### LUMINAIRE DATA

|                  |              |
|------------------|--------------|
| Description      | 4000K, 70CRI |
| Delivered Lumens | 17033        |
| Watts            | 138          |
| Efficacy         | 123.4        |
| IES Type         | IV           |
| BUG Rating       | B2-U0-G4     |
| Mounting Height  | 30 ft        |
| Grid Scale       | 30 ft        |

### ZONAL LUMEN SUMMARY

| Zone                 | Lumens | % Luminaire |
|----------------------|--------|-------------|
| Downward Street Side | 15040  | 88.3%       |
| Downward House Side  | 1993   | 11.7%       |
| Downward Total       | 17033  | 100%        |
| Upward Street Side   | 0      | 0%          |
| Upward House Side    | 0      | 0%          |
| Upward Total         | 0      | 0%          |
| Total Flux           | 17033  | 100%        |

### ISOFOOT CANDLE PLOT



UR20-56L-140-4K7-5QM

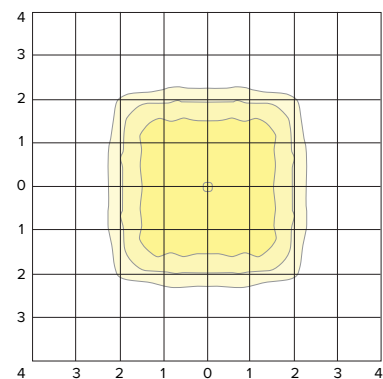
### LUMINAIRE DATA

|                  |              |
|------------------|--------------|
| Description      | 4000K, 70CRI |
| Delivered Lumens | 17354        |
| Watts            | 140          |
| Efficacy         | 124.0        |
| IES Type         | VS           |
| BUG Rating       | B4-U0-G2     |
| Mounting Height  | 30 ft        |
| Grid Scale       | 30 ft        |

### ZONAL LUMEN SUMMARY

| Zone                 | Lumens | % Luminaire |
|----------------------|--------|-------------|
| Downward Street Side | 8677   | 50.0%       |
| Downward House Side  | 8677   | 50.0%       |
| Downward Total       | 17354  | 100%        |
| Upward Street Side   | 0      | 0%          |
| Upward House Side    | 0      | 0%          |
| Upward Total         | 0      | 0%          |
| Total Flux           | 17354  | 100%        |

### ISOFOOT CANDLE PLOT



# UR20-Arm Mount

ARCHITECTURAL AREA/SITE

## PHOTOMETRY

UR20-56L-140-4K7-5QN

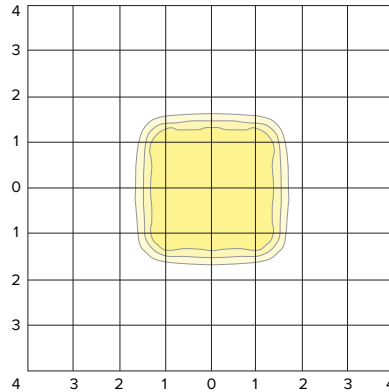
### LUMINAIRE DATA

|                  |              |
|------------------|--------------|
| Description      | 4000K, 70CRI |
| Delivered Lumens | 18023        |
| Watts            | 140          |
| Efficacy         | 128.7        |
| IES Type         | VS           |
| BUG Rating       | B4-U0-G1     |
| Mounting Height  | 30 ft        |
| Grid Scale       | 30 ft        |

### ZONAL LUMEN SUMMARY

| Zone                 | Lumens | % Luminaire |
|----------------------|--------|-------------|
| Downward Street Side | 9012   | 50.0%       |
| Downward House Side  | 9012   | 50.0%       |
| Downward Total       | 18023  | 100%        |
| Upward Street Side   | 0      | 0%          |
| Upward House Side    | 0      | 0%          |
| Upward Total         | 0      | 0%          |
| Total Flux           | 18023  | 100%        |

### ISOFOOT CANDLE PLOT



UR20-56L-140-4K7-5R

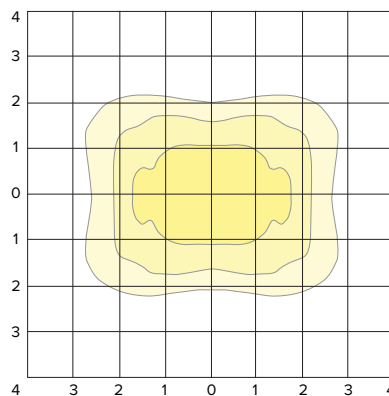
### LUMINAIRE DATA

|                  |              |
|------------------|--------------|
| Description      | 4000K, 70CRI |
| Delivered Lumens | 17201        |
| Watts            | 140          |
| Efficacy         | 122.9        |
| IES Type         | III          |
| BUG Rating       | B4-U0-G4     |
| Mounting Height  | 30 ft        |
| Grid Scale       | 30 ft        |

### ZONAL LUMEN SUMMARY

| Zone                 | Lumens | % Luminaire |
|----------------------|--------|-------------|
| Downward Street Side | 8601   | 50.0%       |
| Downward House Side  | 8601   | 50.0%       |
| Downward Total       | 17201  | 100%        |
| Upward Street Side   | 0      | 0%          |
| Upward House Side    | 0      | 0%          |
| Upward Total         | 0      | 0%          |
| Total Flux           | 17201  | 100%        |

### ISOFOOT CANDLE PLOT



UR20-56L-140-4K7-5W

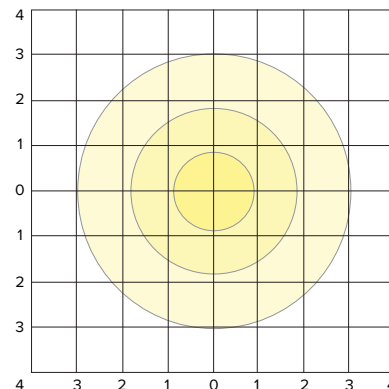
### LUMINAIRE DATA

|                  |              |
|------------------|--------------|
| Description      | 4000K, 70CRI |
| Delivered Lumens | 17014        |
| Watts            | 140          |
| Efficacy         | 121.5        |
| IES Type         | III          |
| BUG Rating       | B4-U0-G2     |
| Mounting Height  | 30 ft        |
| Grid Scale       | 30 ft        |

### ZONAL LUMEN SUMMARY

| Zone                 | Lumens | % Luminaire |
|----------------------|--------|-------------|
| Downward Street Side | 8507   | 50.0%       |
| Downward House Side  | 8507   | 50.0%       |
| Downward Total       | 17014  | 100%        |
| Upward Street Side   | 0      | 0%          |
| Upward House Side    | 0      | 0%          |
| Upward Total         | 0      | 0%          |
| Total Flux           | 17014  | 100%        |

### ISOFOOT CANDLE PLOT

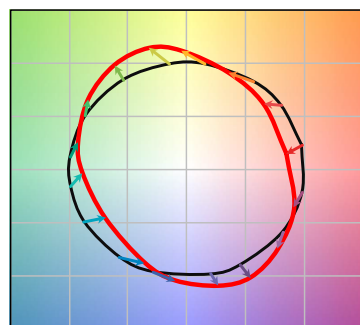


# UR20-Arm Mount

ARCHITECTURAL AREA/SITE

## TM-30 DATA

### COLOR VECTOR GRAPHIC

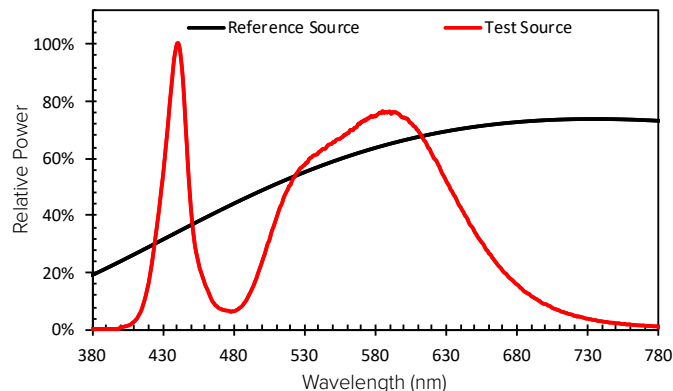


— Reference Illuminant — Test Source

### TEST SOURCE

|                    |        |
|--------------------|--------|
| R <sub>f</sub>     | 68     |
| R <sub>a</sub>     | 99     |
| CCT(K)             | 3947   |
| D <sub>uv</sub>    | 0.0004 |
| x                  | 0.3831 |
| y                  | 0.3793 |
| CIE R <sub>a</sub> | 72     |

### SPECTRAL POWER DISTRIBUTION COMPARISON



## ELECTRICAL DATA

| Drive Current | LED Count | System Watts | Line Voltage |       | Amps AC |      |      |      |      |      | Min. Power Factor | Max THD (%) | Dimming       |                             |     |                                     |     |
|---------------|-----------|--------------|--------------|-------|---------|------|------|------|------|------|-------------------|-------------|---------------|-----------------------------|-----|-------------------------------------|-----|
|               |           |              |              |       |         |      |      |      |      |      |                   |             | Dimming Range | Source current out of 0-10V |     | Absolute voltage range on 0-10V (+) |     |
|               |           |              | VAC          | Hz    | 120     | 208  | 240  | 277  | 347  | 480  |                   |             |               | Min                         | Max | Min                                 | Max |
| 298mA         | 24        | 25           | 120-480      | 50/60 | 0.21    | 0.12 | 0.10 | 0.09 | 0.07 | 0.05 | >0.9              | 20          | 10% to 100%   | 0mA                         | 1mA | 0V                                  | 10V |
| 298mA         | 28        | 30           |              |       | 0.25    | 0.14 | 0.13 | 0.11 | 0.09 | 0.06 |                   |             |               |                             |     |                                     |     |
| 800mA         | 24        | 65           |              |       | 0.54    | 0.31 | 0.27 | 0.23 | 0.19 | 0.14 |                   |             |               |                             |     |                                     |     |
| 700mA         | 28        | 70           |              |       | 0.58    | 0.34 | 0.29 | 0.25 | 0.20 | 0.15 |                   |             |               |                             |     |                                     |     |
| 420mA         | 56        | 75           |              |       | 0.63    | 0.36 | 0.31 | 0.27 | 0.22 | 0.16 |                   |             |               |                             |     |                                     |     |
| 350mA         | 68        | 80           |              |       | 0.67    | 0.38 | 0.33 | 0.29 | 0.23 | 0.17 |                   |             |               |                             |     |                                     |     |
| 600mA         | 56        | 110          |              |       | 0.92    | 0.53 | 0.46 | 0.40 | 0.32 | 0.23 |                   |             |               |                             |     |                                     |     |
| 500mA         | 68        | 115          |              |       | 0.96    | 0.55 | 0.48 | 0.42 | 0.33 | 0.24 |                   |             |               |                             |     |                                     |     |
| 850mA         | 56        | 140          |              |       | 1.17    | 0.67 | 0.58 | 0.51 | 0.40 | 0.29 |                   |             |               |                             |     |                                     |     |
| 675mA         | 68        | 150          |              |       | 1.25    | 0.72 | 0.63 | 0.54 | 0.43 | 0.31 |                   |             |               |                             |     |                                     |     |

### TM-21 Lifetime Calculation - Projected Lumen Maintenance (25°C / 77°C)

| Ambient Temp. | 0    | 25,000 | 36,000 | 50,000 | 100,000 | Reported L70 |
|---------------|------|--------|--------|--------|---------|--------------|
| 25°C / 77°F   | 100% | 97%    | 95%    | 93%    | 87%     | 60khrs       |

### CRI Lumen Multiplier

| CCT   | Amber   | 70 CRI | 80 CRI | 90 CRI |
|-------|---------|--------|--------|--------|
| Amber | 0.1727s | —      | —      | —      |
| 2700K | —       | —      | 0.859  | —      |
| 3000K | —       | 1      | 0.9119 | 0.7033 |
| 3500K | —       | —      | 0.906  | —      |
| 4000K | —       | 1      | 0.8941 | 0.734  |
| 5000K | —       | 1      | 0.879  | 0.7712 |