



|         |  |
|---------|--|
| Model # |  |
| Type    |  |
| Project |  |
| Date    |  |

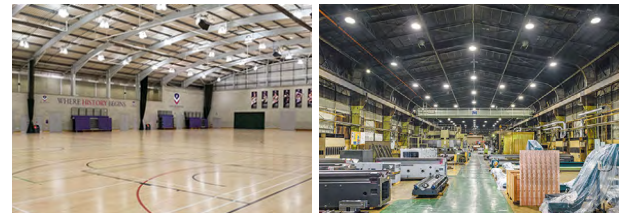
# HBX2-SERIES MONOPOINT HIGH BAY

The HBX2-Series is the most versatile Monopoint High Bay offered in the North American market. Built with lightweight aluminum die cast construction it is a lightweight fixture that can be configured for almost any application. With multiple configurable options including mounting methods, reflectors, wire guards, frosted lens, side or center mount 12V remote controlled motion sensors and surge protectors the HBX2 is the only high bay you'll need to consider to meet the demands of every project.



## HIGHLIGHTS

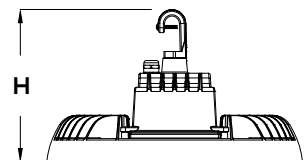
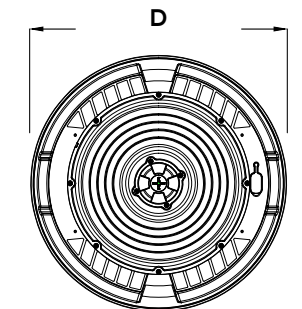
- Up to 155 lm/W
- 80+ CRI
- Polycarbonate annular "Fresnel" lens for even 360° light dispersal (and optional frosted lens for reduced glare)
- IP65, IK10 & 3G rated for tough environments
- Native 90° beam angle
- Powdercoated aluminum driver box and housing
- 0-10V dimming
- Features an optional low voltage motion sensor for occupancy detection and dimming control
- Pre-installed 10 foot whip for quick installations
- 10kV surge protection included, optional 20kV available
- Backed by a worry-free 10 year warranty



## APPLICATIONS

Designed for warehouse, gymnasium, commercial, manufacturing, and industrial applications.

| DIMENSIONS  |           |                   |                  |                 |
|-------------|-----------|-------------------|------------------|-----------------|
| VOLTAGE (V) | POWER (W) | D (inches/mm)     | H (inches/mm)    | WEIGHT (kg/lbs) |
| 120-277     | 100       | Ø13" (Ø330mm)     | 7-3/4" (196mm)   | 3.2kg / 7.2lbs  |
|             | 150       |                   |                  | 3.5kg / 7.7lbs  |
|             | 200       |                   |                  | 3.5kg / 7.7lbs  |
|             | 240       | Ø15-3/8" (Ø390mm) | 8-11/16" (220mm) | 5.8kg / 12.8lbs |
|             | 300       |                   |                  | 6.7kg / 14.8lbs |
| 277-480     | 100       | Ø13" (Ø330mm)     | 7-3/4" (196mm)   | 4.0kg / 8.9lbs  |
|             | 150       |                   |                  | 4.0kg / 8.9lbs  |
|             | 200       |                   |                  | 4.3kg / 9.4lbs  |
|             | 240       | Ø15-3/8" (Ø390mm) | 8-11/16" (220mm) | 6.5kg / 14.3lbs |
|             | 300       |                   |                  | 7.0kg / 15.3lbs |



## ORDERING GUIDE

| SERIES      | POWER (W)  | CCT                                | VOLTAGE / DIMMING  |
|-------------|--|------------------------------------|--|
| <b>HBX2</b> | <b>100:</b> 100W<br><b>150:</b> 150W<br><b>200:</b> 200W<br><b>240:</b> 240W<br><b>300:</b> 300W | <b>4:</b> 4000K<br><b>5:</b> 5000K | <b>1:</b> 120-277V, 0-10V dimming, internal connection<br><b>2:</b> 277-480V, 0-10V dimming, internal connection<br><b>10:</b> 120-277V, 10' 0-10V 18/2 cord provided, external connection<br><b>20:</b> 277-480V, 10' 0-10V 18/2 cord provided, external connection<br>*Options 10 & 20 are factory-installed modifications |

## FACTORY-INSTALLED OPTIONS

| CUSTOM CORD LENGTH   | CORD END   | SENSOR   | SURGE PROTECTION  | LENS  |
|--|--|--|---|---|
| <b>Blank:</b> Default 10' 18/3 black cord<br><br><b>B1xx*:</b> 300V 18/3 black cord XX to specify length, up to 99'<br><br><b>B2xx*:</b> 600V 18/3 black cord XX to specify length, up to 99'<br><br>Custom length required (in feet)<br><br>*length of 0-10V dimming cord will override and match custom cord length selected | <b>Blank:</b> Default, no cord end<br><br><b>N01:</b> 125V 15A straight plug<br><b>N02:</b> 250V 15A straight plug<br><br><b>N04:</b> 125V 15A locking plug<br><b>N05:</b> 250V 15A locking plug<br><br><b>N06:</b> 277V 15A locking plug<br><b>N07:</b> 125V 20A straight plug<br><b>N08:</b> 250V 20A straight plug<br><br><b>N09:</b> 277V 20A straight plug<br><br><b>N10:</b> 125V 20A locking plug<br><b>N11:</b> 250V 20A locking plug<br><br><b>N12:</b> 277V 20A locking plug<br><br><b>N13:</b> 347V 20A locking plug<br><br><b>N14:</b> 480V 20A locking plug | <b>Blank:</b> Default, no sensor<br><br><b>M2:</b> Microwave centre-mount motion sensor, dimming, 12VDC<br><br><b>M3:</b> Microwave motion sensor and mounting arm, dimming, 12VDC<br><br><b>M12:</b> PIR centre-mount motion sensor, dimming, 12VDC<br><br><b>M13:</b> PIR motion sensor and mounting arm, dimming, 12VDC<br><br>*RC02 required to operate M2, M3, M12 or M13, ordered separately | <b>Blank:</b> 10kV surge protection included<br><br><b>SP2:</b> 20kV surge protection | <b>Blank:</b> Clear Fresnel lens<br><br><b>FR:</b> Frosted Lens |

### MODEL SELECTION

### FACTORY-INSTALLED OPTIONS

| SERIES      | POWER (W) | CCT | VOLT/DIM | X / CORD LENGTH | CORD END | SENSOR | SURGE P. | LENS |
|-------------|-----------|-----|----------|-----------------|----------|--------|----------|------|
| <b>HBX2</b> | 150       | 5   | 20       | B235            | N13      | M2     | SP2      | FR   |

\*Note: add factory-installed options in sequence listed

EXAMPLE: HBX2-1505-20-B235-N13-M2-SP2-FR

## ACCESSORIES SELECTION

| ORDER | MODEL #           | DESCRIPTION   |
|-------|-------------------|---|
|       | HBX2-REF-AL       | Aluminum reflector, 90° for HBX2 (100-200W models)  |
|       | HBX2-REF-AL-L     | Aluminum reflector, 90° for HBX2 (240-300W models)  |
|       | HBX2-REF-PC       | Prismatic reflector, 90° for HBX2 (100-200W models)   |
|       | HBX2-REF-PC-L     | Prismatic reflector, 90° for HBX2 (240-300W models)   |
|       | HBX2-REF-CL       | PC cone lens for HBX2 prismatic reflectors (all models)   |
|       | HBX2-34NPT        | 3/4" NPT adaptor for HBX2 (all models)  |
|       | HBX2-CARABINER    | Carabiner for Monopoint High Bays (all models)  |
|       | HBX2-EYEBOLT      | Eyebolt for HBX2 (all models)   |
|       | HBX2-SPIKES       | Bird spikes for HBX2 (12 spikes per kit)  |
|       | HBX2-WG           | Wireguard for HBX2 (100-200W models)  |
|       | HBX2-WG-L         | Wireguard for HBX2 (240-300W models)  |
|       | HBX2-YK           | Mounting Yoke for HBX2 (100-200W models)  |
|       | HBX2-YK-L         | Mounting Yoke for HBX2 (240-300W models)  |
|       | RC02              | Remote for motion sensors (one remote is required if ordering):<br>HBX2-MS (Factory-Installed code M2)<br>HBX2-MS-MA (Factory-Installed code M3)<br>HBX2-MS-MA-L (Factory-Installed code M3)<br>HBX2-MSP (Factory-Installed code M12)<br>HBX2-MSP-MA (Factory-Installed code M13)<br>HBX2-MSP-MA-L (Factory-Installed code M13) |
|       | FHUPS1-UNV-25L-SD | Fulham Emergency Battery, Field Mount, 25W, 100-277V  |
|       | FHSWLPWH          | Wall plate for test switch (white)  |
|       | FHS-TSTWL-BC      | Test switch, wet location (IP67, switch side)   |
|       | FHS-EXT-48-TST    | Extension for test switch with connectors (48")   |

## PRODUCT FEATURES

### CONSTRUCTION

- Matte black die-cast aluminum
- Over-sized, hinged junction box with captive screws
- 1/2" NPT knockouts for daisy chaining or controls
- 10-foot black 18/3 cord
- Polycarbonate Fresnel lens
- Native 90° beam angle

### INSTALLATION

- Mounting hook included
- Pre-installed 10' power cord
- Optional: yoke or pendant mount

### ELECTRICAL

- "-1" models designed to operate between 120-277V
- "-2" models designed to operate between 277-480V
- All models include 10kV surge protector
- Power Factor >0.9
- THD <20%
- 0-10V dimming, dim-to-off

### LISTINGS & RATINGS

- cULus / cETLus
- DLC Premium
- Wet location
- RoHS compliant
- FCC compliant
- IP65 rated
- 3G rated
- IK10 rated
- Listed for use in:
  - 100W/150W/240W: -40°C to 55°C (-40°F to 131°F)
  - 200W & 300W: -40°C to 50°C (-40°F to 122°F)

### RATED LIFE & WARRANTY




- LED system: >54,000 hours at L70
- 10 year warranty (visit [premiseled.com/warranty/](http://premiseled.com/warranty/))

## ORDERING INFORMATION





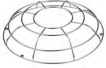

| INPUT VOLTAGE | POWER (W) | CCT (K) | MODEL NUMBER | DELIVERED LUMENS (lm) | EFFICACY (lm/W) | DLC PREMIUM |          |
|---------------|-----------|---------|--------------|-----------------------|-----------------|-------------|----------|
| 120-277V      | 100W      | 4K      | HBX2-1004-1  | 15,857 lm             | 155 lm/W        | PAOLMLLL    |          |
|               |           | 5K      | HBX2-1005-1  | 15,935 lm             | 155 lm/W        | PON81RKB    |          |
|               | 150W      | 4K      | HBX2-1504-1  | 23,251 lm             | 151 lm/W        | PK4GUIN7    |          |
|               |           | 5K      | HBX2-1505-1  | 23,363 lm             | 151 lm/W        | PDNMGLD9    |          |
|               | 200W      | 4K      | HBX2-2004-1  | 31,079 lm             | 152 lm/W        | PODXILG7    |          |
|               |           | 5K      | HBX2-2005-1  | 31,122 lm             | 153 lm/W        | PTX5LV0L    |          |
|               | 240W      | 4K      | HBX2-2404-1  | 37,655 lm             | 154 lm/W        | PG8SR75S    |          |
|               |           | 5K      | HBX2-2405-1  | 37,756 lm             | 154 lm/W        | P7RVB3E4    |          |
|               | 300W      | 4K      | HBX2-3004-1  | 45,150 lm             | 152 lm/W        | PCRGGHBP    |          |
|               |           | 5K      | HBX2-3005-1  | 45,384 lm             | 153 lm/W        | PPTWV9IG    |          |
|               | 277-480V  | 100W    | 4K           | HBX2-1004-2           | 15,548 lm       | 152 lm/W    | PXXBFPP7 |
|               |           |         | 5K           | HBX2-1005-2           | 15,585 lm       | 153 lm/W    | PB706VPS |
| 150W          |           | 4K      | HBX2-1504-2  | 22,814 lm             | 153 lm/W        | PSITZA7Q    |          |
|               |           | 5K      | HBX2-1505-2  | 22,855 lm             | 154 lm/W        | P7NK60W0    |          |
| 200W          |           | 4K      | HBX2-2004-2  | 30,258 lm             | 151 lm/W        | PA7ZZEP5    |          |
|               |           | 5K      | HBX2-2005-2  | 30,278 lm             | 151 lm/W        | PHGYESGN    |          |
| 240W          |           | 4K      | HBX2-2404-2  | 38,659 lm             | 154 lm/W        | PT8E8WH8    |          |
|               |           | 5K      | HBX2-2405-2  | 38,718 lm             | 155 lm/W        | PAFZBCQM    |          |
| 300W          |           | 4K      | HBX2-3004-2  | 47,044 lm             | 151 lm/W        | PPWTW996    |          |
|               |           | 5K      | HBX2-3005-2  | 47,274 lm             | 152 lm/W        | PKPNP55T    |          |

## OPTIONAL ACCESSORIES





### REFLECTOR ACCESSORIES

| IMAGE   | DESCRIPTION                                | MODEL NUMBER   |
|---|--|--|
|  | Aluminum reflector, 90° for HBX2           | HBX2-REF-AL (100-200W models)<br>HBX2-REF-AL-L (240-300W models) |
|  | Prismatic reflector, 90° for HBX2          | HBX2-REF-PC (100-200W models)<br>HBX2-REF-PC-L (240-300W models) |
|  | PC cone lens for HBX2 prismatic reflectors | HBX2-REF-CL (all models)   |


### MOUNTING ACCESSORIES

| IMAGE   | DESCRIPTION                       | MODEL NUMBER  |
|---|-----------------------------------|---|
|    | 3/4" NPT adaptor for HBX2         | HBX2-34NPT (all models)   |
|    | Carabiner for Monopoint High Bays | HBX2-CARABINER (all models)   |
|   | Eyebolt for HBX2                  | HBX2-EYEBOLT (all models)   |
|  | Bird spikes for HBX2              | HBX2-SPIKES (12 spikes per kit)<br>(100-200W models = 4 spikes)<br>(240-300W models = 6 spikes) |
|  | Wireguard for HBX2                | HBX2-WG (100-200W models)<br>HBX2-WG-L (240-300W models)  |
|  | Mounting Yoke for HBX2            | HBX2-YK (100-200W models)<br>HBX2-YK-L (240-300W models)  |


**SENSOR ACCESSORIES**

| IMAGE  | DESCRIPTION  | MODEL NUMBER   | FACTORY-INSTALLED CODE |
|--|--|--|------------------------|
|   | <p><b>Microwave Motion Sensor (center mount)</b><br/>                     Sensor parameters set by required remote (RC02). Dimming control. Detection up to 49 ft mounting height, 360° pattern. IP65 rated. 12V input. Daylight settings available.<br/>                     Order separately or factory install.</p> | HBX2-MS  | M2                     |
|   | <p><b>Microwave Motion Sensor (side mount)</b><br/>                     Sensor parameters set by required remote (RC02). Dimming control. Detection up to 49 ft mounting height, 360° pattern. IP65 rated. 12V input. Daylight settings available.<br/>                     Order separately or factory install.</p>   | HBX2-MS-MA<br>(100-200W models)<br><br>HBX2-MS-MA-L<br>(240-300W models)   | M3                     |
|   | <p><b>PIR Motion Sensor (center mount)</b><br/>                     Sensor parameters set by required remote (RC02). Dimming control. Detection up to 20 ft mounting height, 360° pattern. IP65 rated. 12V input. Daylight settings available.<br/>                     Order separately or factory install.</p>       | HBX2-MSP   | M12                    |
|  | <p><b>PIR Motion Sensor (side mount)</b><br/>                     Sensor parameters set by required remote (RC02). Dimming control. Detection up to 20 ft mounting height, 360° pattern. IP65 rated. 12V input. Daylight settings available.<br/>                     Order separately or factory install.</p>         | HBX2-MSP-MA<br>(100-200W models)<br><br>HBX2-MSP-MA-L<br>(240-300W models) | M13                    |

**SENSOR REMOTES**

| IMAGE   | DESCRIPTION   | MODEL NUMBER | COMPATIBLE WITH   |
|---|---|--------------|---|
|  | <p>Remote control for programming motion sensors. One remote can control an entire facility. Store settings in remote, and apply them to each fixture with one button. On/Off mode allows fixture to be set at dim levels from 10-100%.</p> | RC02         | HBX2-MS<br>HBX2-MS-MA<br>HBX2-MS-MA-L<br>HBX2-MSP<br>HBX2-MSP-MA<br>HBX2-MSP-MA-L |

**BATTERY ACCESSORY**

| IMAGE   | DESCRIPTION  | MODEL NUMBER  |
|---|--|---|
|  | <p><b>Battery with Accessories</b><br/><b>Fulham 25W Sinusoidal Emergency Micro Inverter (120-277V only)</b><br/>Field mounted emergency battery backup with test switch indicator included. Controls up to 150W of load with 0-10V dimming. Minimum 90 minutes discharge. Charge time 12 hours. Under voltage, overload and short circuit protection. Remote mount up to 50m (164ft) away with 18AWG. Remote mount test switch up to 20m (65ft). No remote control available. Dimming control. 120-277V Input. IP20 rated. Operation range of 0°C to 50°C (32°F to 122°F)<br/>Battery and accessories all ordered separately.</p> <p>Wall plate for test switch (white)<br/>Test switch, wet location (IP67, switch side)<br/>Extension for test switch with connectors (48")</p> | <p>FPHUPS1-UNV-25L-SD</p> <p>FHSWLPWH<br/>FHS-TSTWL-BC<br/>FHS-EXT-48-TST</p> |

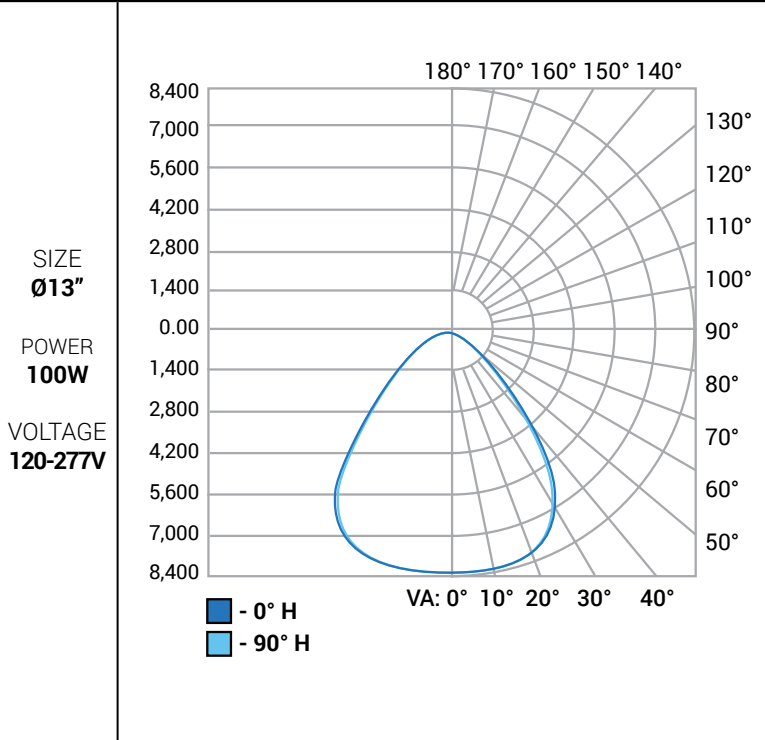
| PACKING INFORMATION    |               |                                    |                  |  |                                    |                                    |                                    |                                    |                                    |
|------------------------|---------------|------------------------------------|------------------|--|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| MODEL                  | CASE QUANTITY |                                    | PALLET QUANTITY  |  |                                    |                                    |                                    |                                    |                                    |
| 100W                   | CASE OF 1     |                                    | 66               |  |                                    |                                    |                                    |                                    |                                    |
| 150W                   | CASE OF 1     |                                    | 66               |  |                                    |                                    |                                    |                                    |                                    |
| 200W                   | CASE OF 1     |                                    | 66               |  |                                    |                                    |                                    |                                    |                                    |
| 240W                   | CASE OF 1     |                                    | 38               |  |                                    |                                    |                                    |                                    |                                    |
| 300W                   | CASE OF 1     |                                    | 38               |  |                                    |                                    |                                    |                                    |                                    |
| ELECTRICAL INFORMATION |               |                                    |                  |  |                                    |                                    |                                    |                                    |                                    |
| INPUT VOLTAGE          | POWER (W)     | APPARENT POWER (VA)                | SYSTEM POWER (W) | CURRENT DRAW AT 120V <sub>ac</sub>                     | CURRENT DRAW AT 208V <sub>ac</sub> | CURRENT DRAW AT 240V <sub>ac</sub> | CURRENT DRAW AT 277V <sub>ac</sub> | CURRENT DRAW AT 347V <sub>ac</sub> | CURRENT DRAW AT 480V <sub>ac</sub> |
| 120-277V               | 100W          | 102.9VA                            | 102.2W           | 0.851A   | 0.492A                             | 0.435A                             | 0.391A                             | -                                  | -                                  |
|                        | 150W          | 153.3VA                            | 153.6W           | 1.276A   | 0.726A                             | 0.637A                             | 0.565A                             | -                                  | -                                  |
|                        | 200W          | 205.3VA                            | 203.6W           | 1.689A   | 0.968A                             | 0.847A                             | 0.742A                             | -                                  | -                                  |
|                        | 240W          | 245.7VA                            | 244.2W           | 2.067A   | 1.171A                             | 1.006A                             | 0.884A                             | -                                  | -                                  |
|                        | 300W          | 294.8VA                            | 295.8W           | 2.467A   | 1.396A                             | 1.214A                             | 1.064A                             | -                                  | -                                  |
| 277-480V               | 100W          | 102.4VA                            | 101.8W           | -  | -                                  | -                                  | 0.369A                             | 0.296A                             | 0.218A                             |
|                        | 150W          | 149.8VA                            | 148.4W           | -  | -                                  | -                                  | 0.536A                             | 0.434A                             | 0.314A                             |
|                        | 200W          | 196.3VA                            | 199.6W           | -  | -                                  | -                                  | 0.713A                             | 0.570A                             | 0.424A                             |
|                        | 240W          | 232.7VA                            | 249.7W           | -  | -                                  | -                                  | 0.846A                             | 0.671A                             | 0.494A                             |
|                        | 300W          | 292.8VA                            | 310.5W           | -  | -                                  | -                                  | 1.073A                             | 0.849A                             | 0.654A                             |
| INPUT VOLTAGE          | POWER (W)     | INRUSH CURRENT (A)                 |                  | SURGE PROTECTION                                       |                                    |                                    |                                    |                                    |                                    |
| 120-277V               | 100W          | <60A @120V, <100A @277V            |                  | Driver = L/N-PE: 10kV, L-N: 10kV<br>Additional = 10kV* |                                    |                                    |                                    |                                    |                                    |
|                        | 150W          | <60A @120V, <130A @277V            |                  |  |                                    |                                    |                                    |                                    |                                    |
|                        | 200W          | <60A @120V, <130A @277V            |                  |  |                                    |                                    |                                    |                                    |                                    |
|                        | 240W          | <60A @120V, <130A @277V            |                  |  |                                    |                                    |                                    |                                    |                                    |
|                        | 300W          | <55A @120V, <140A@277V             |                  |  |                                    |                                    |                                    |                                    |                                    |
| 277-480                | 100W          | <30A @277V, <38A @347V, <55A @480V |                  |  |                                    |                                    |                                    |                                    |                                    |
|                        | 150W          | <50A @277V, <70A @347V, <90A @480V |                  |  |                                    |                                    |                                    |                                    |                                    |
|                        | 200W          | <50A @277V, <70A @347V, <90A @480V |                  |  |                                    |                                    |                                    |                                    |                                    |
|                        | 240W          | <50A @277V, <70A @347V, <90A @480V |                  |  |                                    |                                    |                                    |                                    |                                    |
|                        | 300W          | <50A @277V, <70A @347V, <90A @480V |                  |  |                                    |                                    |                                    |                                    |                                    |

\*20kV surge protection option available.

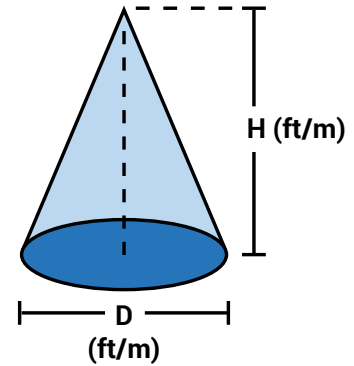


## PHOTOMETRIC INFORMATION

### POLAR CANDELA DISTRIBUTION

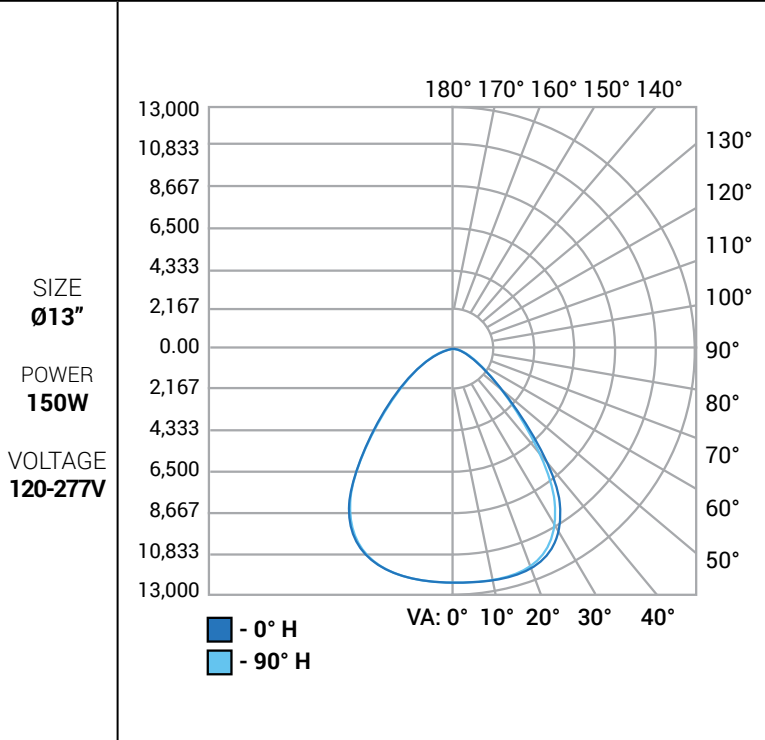


### ILLUMINANCE AT A DISTANCE

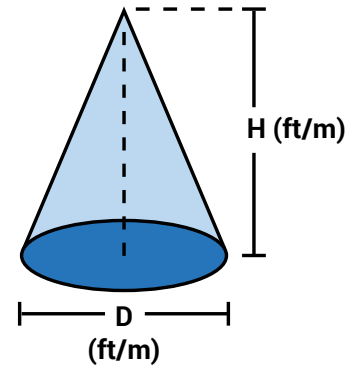


| H (ft/m)   | LUX    | FC    | D (ft/m)      |
|------------|--------|-------|---------------|
| 6.6' (2m)  | 2082.9 | 193.5 | 16.4' (3.7m)  |
| 9.8' (3m)  | 925.7  | 86.0  | 18.4' (5.6m)  |
| 13.1' (4m) | 520.7  | 48.4  | 24.6' (7.5m)  |
| 16.4' (5m) | 333.3  | 31.0  | 30.6' (9.3m)  |
| 19.7' (6m) | 231.4  | 21.5  | 36.8' (11.2m) |

### POLAR CANDELA DISTRIBUTION



### ILLUMINANCE AT A DISTANCE



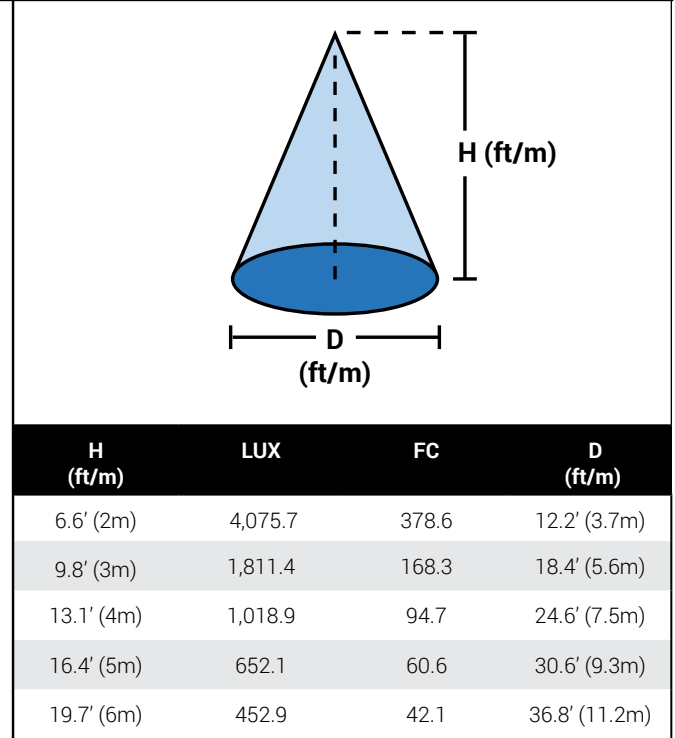
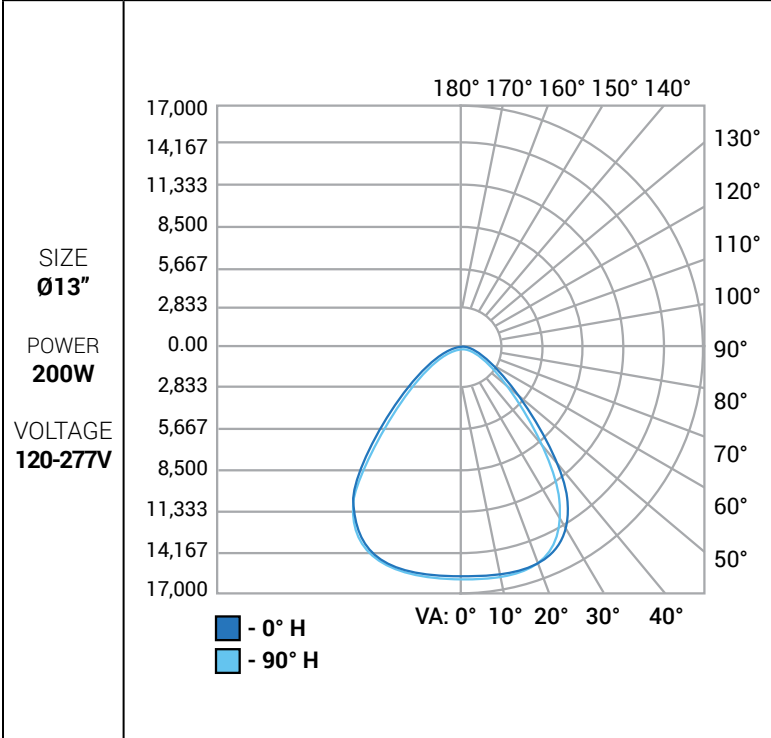
| H (ft/m)   | LUX     | FC    | D (ft/m)      |
|------------|---------|-------|---------------|
| 6.6' (2m)  | 3,113.2 | 289.2 | 16.4' (3.7m)  |
| 9.8' (3m)  | 1,383.6 | 128.6 | 18.1' (5.5m)  |
| 13.1' (4m) | 778.3   | 72.3  | 24.0' (7.3m)  |
| 16.4' (5m) | 498.1   | 46.3  | 29.9' (9.1m)  |
| 19.7' (6m) | 345.9   | 32.1  | 36.1' (11.0m) |

\*Based on operation at 4000K & 120V.

## PHOTOMETRIC INFORMATION

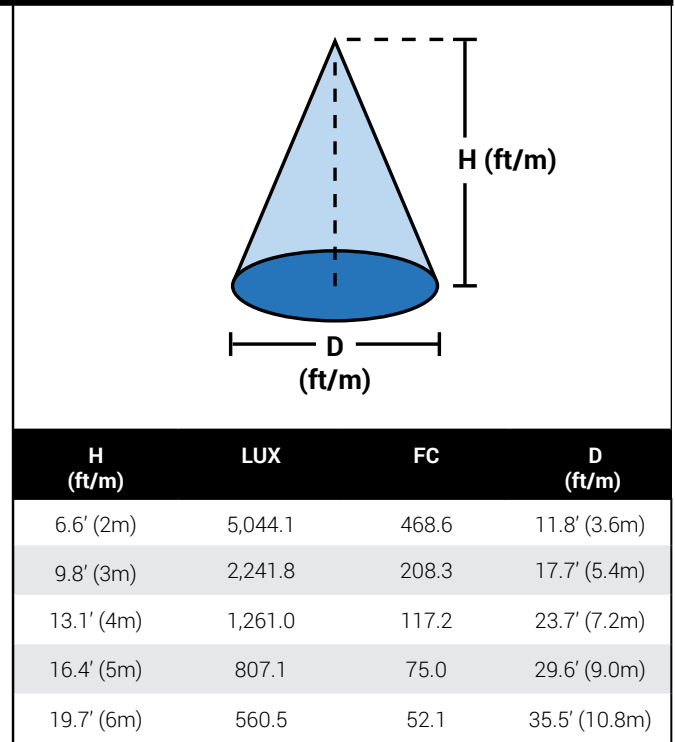
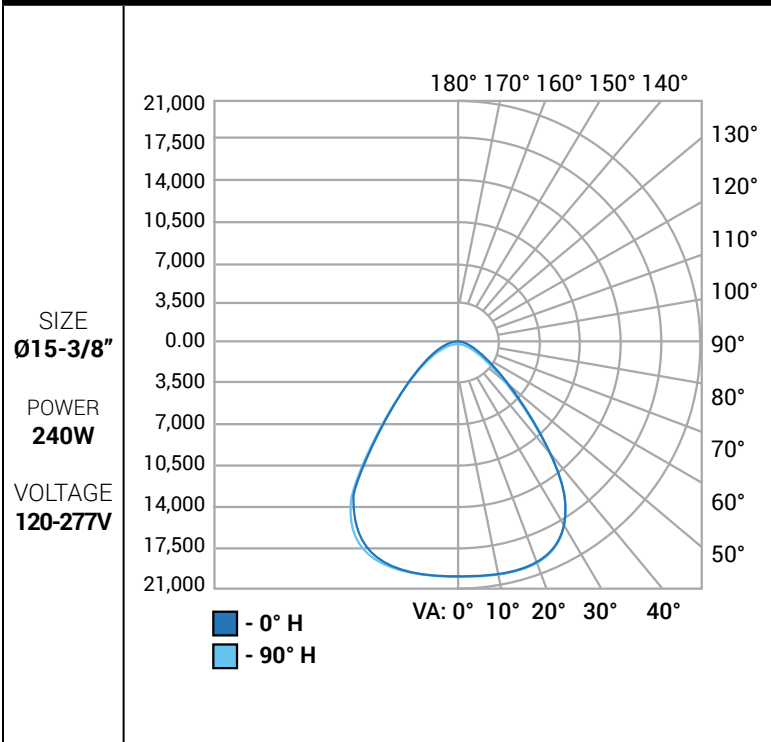
### POLAR CANDELA DISTRIBUTION

### ILLUMINANCE AT A DISTANCE



### POLAR CANDELA DISTRIBUTION

### ILLUMINANCE AT A DISTANCE

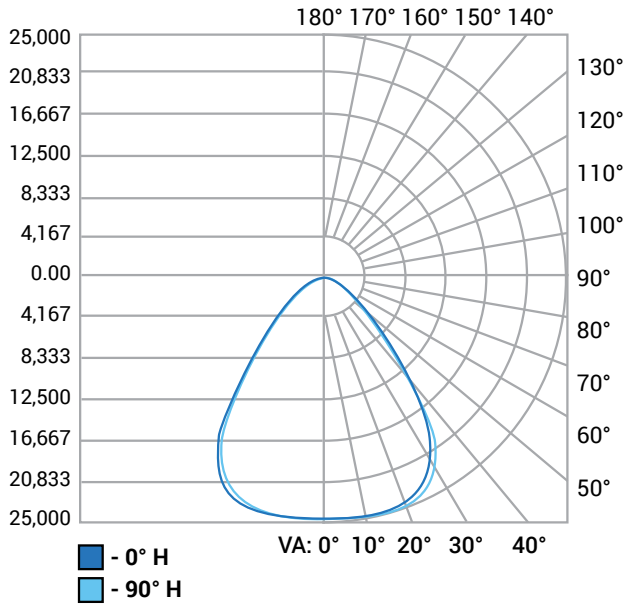


\*Based on operation at 4000K & 120V.

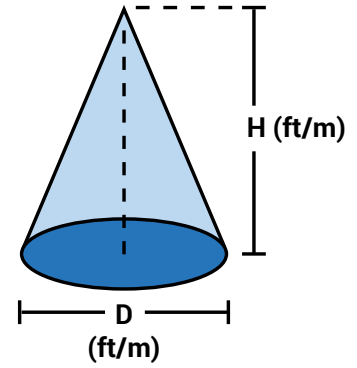
# PHOTOMETRIC INFORMATION

## POLAR CANDELA DISTRIBUTION

**SIZE**  
**Ø15-3/8"**  
  
**POWER**  
**300W**  
  
**VOLTAGE**  
**120-277V**



## ILLUMINANCE AT A DISTANCE



| H (ft/m)   | LUX     | FC    | D (ft/m)      |
|------------|---------|-------|---------------|
| 6.6' (2m)  | 6,067.1 | 563.7 | 11.8' (3.6m)  |
| 9.8' (3m)  | 2,696.5 | 250.5 | 17.7' (5.4m)  |
| 13.1' (4m) | 1,516.8 | 140.9 | 23.7' (7.2m)  |
| 16.4' (5m) | 970.7   | 90.2  | 29.6' (9.0m)  |
| 19.7' (6m) | 674.1   | 62.6  | 35.5' (10.8m) |

\*Based on operation at 4000K & 120V.