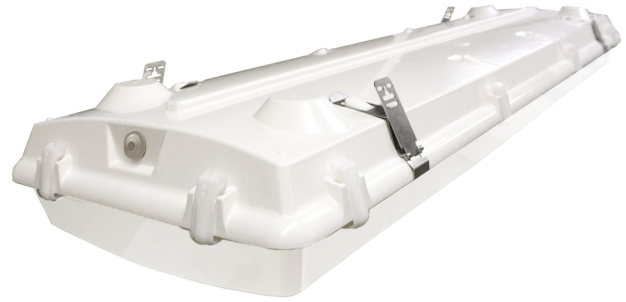


# WPFH-L GEN. 2 LED VAPOR TIGHT HIGH BAY

SPECIFICATION GRADE FOR FOOD PROCESSING,  
BEVERAGE AND RIGOROUS APPLICATIONS  
OPTIONAL EMERGENCY REMOTE



The WPFH-L series is a suitable design for both indoor and outdoor applications where dust and water resistance are required. Designed for easy assembly and maintenance. Appropriate for environments that may require: washability/hose down, complete containment of the LEDs, the ability to withstand reduced temperatures and moderate impact.

## APPLICATIONS

- Food processing
- Beverage industry
- Manufacturing and warehousing
- Gymnasiums
- Freezers

## FEATURES & SPECIFICATIONS

### CONSTRUCTION

#### Housing

- Reinforced white fiberglass and impact resistant with 12 POM latches high durability and chemical resistant The fixture can be opened from either side for easy installation and maintenance
- The captive design of the latch will not allow it to fly off during maintenance
- Entry holes for 1/2" NPT/ M20 fittings
- 1 hole on each side of the housing. One fitted with a waterproof cable gland and the other with a rubber plug
- High quality pour-in gasket

#### Lens

Fixture comes standard with an impact resistant acrylic frosted lens for durability and reduction of glare.

### SPECIFICATIONS

- Wash down design
- Very durable
- Easy to clean and service
- LED technology for long term energy savings

#### Driver

- 120 V, 120-277 V, 347 V
- 0-10V dimming driver (down to 1%). Dimming cables sold separately, see ordering guide
- 2.5 kV surge protection (standard). See options table for additional surge protection

#### Operating temperature

-40 °C to 40 °C [-40 °F to 104 °F]  
 DL: 0 °C to +25 °C (32 °F to 77 °F)

#### Mounting

Easily mounted with stainless steel V-hooks which come standard with the fixture. No holes need to be drilled through the housing. The stainless steel V-hooks with hook hangers are UL rated for 4 times fixture weight.

### EMERGENCY LIGHTING COMPLIANCES

- CSA certified as a C22.2 C141-15 emergency lighting luminaire
- Meets ICES-005 requirements

### COMPLIANCES

- Premium quality
- Suitable for wet and damp locations
- IP66, IP67
- 1500 PSI: High pressure hose down test (1.3 gallon per minute for 3 minutes at 1.5-2.0' from the unit) to maintain the integrity of the fixture. No water ingress is allowed
- NSF
- NEMA 4X
- Meets requirements of ICES-005
- UL1598, UL8750
- CSA Certified to C22.2 #250.0, #250.13
- cCSAus
- CSA Certified to C22.2 #141-15 (When use with DL option)
- DLC Premium
- BC Hydro

| OVERVIEW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                 |                       |                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------|------------------------|
| LIGHT SOURCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | LED             | COLOR TEMPERATURE (K) | 3000, 3500, 4000, 5000 |
| WATTS (W)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 77 - 205        | CRI                   | 80+                    |
| LUMEN OUTPUT (LM)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 12 620 - 31 470 | WEIGHT (LBS)          | 26                     |
| EFFICACY (LM/W)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 143 - 176       |                       |                        |
| <div>        </div> <div>    </div> |                 |                       |                        |

Not all products are qualified on the DLC QPL. To view our DLC qualified products, please consult the DLC Qualified Products List at [www.designlights.org/search](http://www.designlights.org/search).

Data is based upon tests performed in a controlled environment. Actual performance can vary depending on operating conditions. All products are subject to change or may be discontinued any time without notice.

# WPFH-L GEN. 2

## ORDERING GUIDE

| SERIES | LAMP TYPE | LUMEN PACKAGE [LM]              | CRI     | VOLTS [VAC]                       | COLOR TEMP. [K]                                          | OPTIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------|-----------|---------------------------------|---------|-----------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WPFH   | L - LED   | A1B<br>A2B<br>A3B<br>A4B<br>A5B | 80 - 80 | 4 - 120<br>8 - 347<br>2 - 120-277 | 30K - 3 000<br>35K - 3 500<br>40K - 4 000<br>50K - 5 000 | DIM1 <sup>1</sup> - 5 WIRE CABLE FOR AC AND 0-10 V DIMMING<br>DIM2 <sup>2</sup> - LEADING EDGE DIMMING 120 V ONLY<br>L6 - 6' WHITE POWER CABLE LENGTH<br>L10 - 10' WHITE POWER CABLE LENGTH<br>L6-BK - 6' BLACK POWER CABLE LENGTH<br>L10-BK - 10' BLACK POWER CABLE LENGTH<br>AC - AVIATION CABLE KIT<br>OS <sup>3</sup> - OCCUPANCY SENSOR<br>DL <sup>4,5</sup> - EMERGENCY BACK UP (FROM 0°C TO +25°C) 120 V AND 120-277 V ONLY<br>U347 - MALE 347 V TWIST LOCK PLUG<br>CMB - CEILING MOUNTING BRACKET<br>KV - 10KV SURGE PROTECTOR<br>RMB - RIGID MOUNTING BRACKET<br>SS - STAINLESS STEEL LATCHES (SET OF 10PCS)<br>U120 - MALE 120 V TWIST LOCK PLUG<br>LT - LENS TETHER<br>PC - POLYCARBONATE FROSTED LENS |

<sup>1</sup> When selecting DIM1 option please also select cable option whether L6, L10, L6-BK, L10-BK. DL option is not compatible with DIM1.

<sup>2</sup> DIM2 is for A3B lumen package only.

<sup>3</sup> To see available options, please consult the occupancy sensors section.

<sup>4</sup> Fixture functional in AC mode, when power goes off emergency bodine powers LED boards. One bodine per fixture is standard unless otherwise specified.

<sup>5</sup> NEMA 4X certification and IP ratings are not applicable when selecting DL option.

## TECHNICAL SPECIFICATION TABLE<sup>1</sup>

| LUMEN PACKAGE | WATTS | VOLTS          | 3000 K            |                  | 3500 K            |                  | 4000 K            |                  | 5000 K            |                  | CRI | LIFE L70 | TESTED HOURS LM-80 | THD   | PF     |
|---------------|-------|----------------|-------------------|------------------|-------------------|------------------|-------------------|------------------|-------------------|------------------|-----|----------|--------------------|-------|--------|
|               | [W]   | [VAC]          | LUMEN OUTPUT [LM] | EFFICA-CY [LM/W] | LUMEN OUTPUT [LM] | EFFICA-CY [LM/W] | LUMEN OUTPUT [LM] | EFFICA-CY [LM/W] | LUMEN OUTPUT [LM] | EFFICA-CY [LM/W] |     | [HRS]    | [HRS]              | [%]   |        |
| A1B           | 77    | 120-277<br>347 | 12 620            | 164              | 13 030            | 170              | 13 340            | 174              | 13 550            | 176              | 80+ | 180 950  | 9 000              | 0.975 | 10.274 |
| A2B           | 107   |                | 16 080            | 150              | 16 610            | 155              | 17 000            | 159              | 17 270            | 161              |     |          |                    | 0.980 | 5.974  |
| A3B           | 123   |                | 18 740            | 153              | 19 360            | 158              | 19 810            | 161              | 20 130            | 164              |     | 173 200  |                    | 0.966 | 9.367  |
| A4B           | 179   |                | 26 570            | 148              | 27 440            | 153              | 28 090            | 157              | 28 530            | 159              |     |          |                    | 0.939 | 9.282  |
| A5B           | 205   |                | 29 300            | 143              | 30 260            | 147              | 30 970            | 151              | 31 470            | 153              |     | 163 850  |                    | 0.972 | 10.245 |

<sup>1</sup> Lumen values are based on standard acrylic frosted lens. For other lens options, please refer to IES files

## DLC UNIQUE ID TABLE

| DLC FAMILY CODE | CERTIFIED | PRIMARY DESIGNATION(S)                                      |
|-----------------|-----------|-------------------------------------------------------------|
| QQQVXD          | Premium   | High-Bay Luminaires for Commercial and Industrial Buildings |

# WPFH-L GEN. 2

## OCCUPANCY SENSORS

### ON-OFF SENSORS

Detection - On at [Detection Area] % during [Hold Time] min. Off

| PART NO       | POSITION | VOLTS (VAC) | TECHNOLOGY     | HEIGHT (FT) | DETECTION AREA [%] | HOLD TIME [MIN.] | DAYLIGHT MIN LEVEL [LUX] | REMOTE*      | LOCATION***                 |
|---------------|----------|-------------|----------------|-------------|--------------------|------------------|--------------------------|--------------|-----------------------------|
| OSE-PO-0303** | EXTERNAL | 120-347     | PIR            | 20-40       | 100                | 20               | N/A                      | N/A          | DRY, -10°C TO 40°C          |
| OSE-PO-0304** | EXTERNAL | 120-347     | PIR            | 20-40       | 100                | 20               | N/A                      | N/A          | DRY, -40°C TO 4°C           |
| OSE-PO-0503** | EXTERNAL | 120-347     | PIR            | 15-40       | 100                | 15               | 3000                     | OSI-FSIR-100 | DRY, 0°C TO 40°C            |
| OSE-PO-0504** | EXTERNAL | 120-347     | PIR            | 15-40       | 100                | 15               | 3000                     | N/A          | DRY, 0°C TO 40°C            |
| OSE-PO-0704** | EXTERNAL | 120-277     | PIR            | 40          | 100                | 15               | N/A                      | N/A          | WET, -40°C TO 40°C          |
| OSE-PO-0804** | EXTERNAL | 347         | PIR            | 40          | 100                | 15               | N/A                      | N/A          | WET, -40°C TO 40°C          |
| OSI-FO-0301   | INTERNAL | 120-277     | HIGH FREQUENCY | 32 MAX      | 100%               | 20               | DISABLE                  | N/A          | DRY AND WET, -25°C TO +40°C |
| OSI-FO-0601   | INTERNAL | 120-347     | HIGH FREQUENCY | 25 MAX      | 100%               | 30               | DISABLE                  | OSI-RC-MH02  | DRY AND WET, -35°C TO +40°C |
| OSI-FO-0602   | INTERNAL | 120-347     | HIGH FREQUENCY | 25 MAX      | 100%               | 15               | DISABLE                  | OSI-RC-MH02  | DRY AND WET, -35°C TO +40°C |
| OSI-FO-0603   | INTERNAL | 120-347     | HIGH FREQUENCY | 25 MAX      | 100%               | 15               | 100                      | OSI-RC-MH02  | DRY AND WET, -35°C TO +40°C |

F

### BI-LEVEL SENSORS

Detection - On at [Detection Area] % during [Hold Time] min., then [Stand-by Dim level] %

| PART NO     | POSITION | VOLTS (VAC) | TECHNOLOGY     | HEIGHT (FT) | DETECTION AREA [%] | HOLD TIME [MIN.] | STAND-BY DIM LEVEL [%] | DAYLIGHT MIN LEVEL [LUX] | REMOTE*      | LOCATION**                 |
|-------------|----------|-------------|----------------|-------------|--------------------|------------------|------------------------|--------------------------|--------------|----------------------------|
| OSE-PB-0202 | EXTERNAL | 120-347     | PIR            | 20          | 100                | 30               | 40                     | DISABLE                  | OSI-FSIR-100 | WET, -40°C TO 40°C         |
| OSI-FB-0301 | INTERNAL | 120-277     | HIGH FREQUENCY | 32 MAX      | 100                | 20               | 30                     | DISABLE                  | N/A          | DRY AND WET, -25°C TO 40°C |
| OSI-FB-0302 | INTERNAL | 120-277     | HIGH FREQUENCY | 32 MAX      | 100                | 20               | 10                     | DISABLE                  | N/A          | DRY AND WET, -25°C TO 40°C |
| OSI-FB-0303 | INTERNAL | 120-277     | HIGH FREQUENCY | 32 MAX      | 100                | 20               | 50                     | DISABLE                  | N/A          | DRY AND WET, -25°C TO 40°C |
| OSE-FB-0402 | EXTERNAL | 120-347     | HIGH FREQUENCY | 50 MAX      | 100                | 20               | 30                     | 50 LUX                   | OSI-RC-MH02  | WET, -35°C TO 40°C         |
| OSI-FB-0603 | INTERNAL | 120-347     | HIGH FREQUENCY | 25 MAX      | 100                | 15               | 40                     | DISABLE                  | OSI-RC-MH02  | DRY AND WET, -35°C TO 40°C |
| OSI-FB-0604 | INTERNAL | 120-347     | HIGH FREQUENCY | 25 MAX      | 100                | 30               | 40                     | DISABLE                  | OSI-RC-MH02  | DRY AND WET, -35°C TO 40°C |
| OSI-FB-0605 | INTERNAL | 120-347     | HIGH FREQUENCY | 25 MAX      | 100                | 15               | 30                     | DISABLE                  | OSI-RC-MH02  | DRY AND WET, -35°C TO 40°C |
| OSI-FB-0606 | INTERNAL | 120-347     | HIGH FREQUENCY | 25 MAX      | 100                | 15               | 10                     | DISABLE                  | OSI-RC-MH02  | DRY AND WET, -35°C TO 40°C |

### TRI-LEVEL SENSORS

Detection - On at [Detection Area] % during [Hold Time] min., then [Stand-by Dim level] % during [Stand-by period] min. Off

| PART NO     | POSITION | VOLTS (VAC) | TECHNOLOGY     | HEIGHT (FT) | DETECTION AREA [%] | HOLD TIME [MIN.] | STAND-BY DIM LEVEL [%] | STAND-BY PERIOD [MIN] | DAYLIGHT MIN LEVEL [LUX] | REMOTE*     | LOCATION**                 |
|-------------|----------|-------------|----------------|-------------|--------------------|------------------|------------------------|-----------------------|--------------------------|-------------|----------------------------|
| OSI-FT-0301 | INTERNAL | 120-277     | HIGH FREQUENCY | 32 MAX      | 100                | 20               | 30                     | 10                    | DISABLE                  | N/A         | DRY AND WET, -25°C TO 40°C |
| OSE-FT-0402 | EXTERNAL | 120-347     | HIGH FREQUENCY | 50 MAX      | 100                | 30               | 30                     | 10                    | 50                       | OSI-RC-MH02 | WET, -35°C TO 40°C         |
| OSI-FT-0601 | INTERNAL | 120-347     | HIGH FREQUENCY | 25 MAX      | 100                | 30               | 30                     | 10                    | DISABLE                  | OSI-RC-MH02 | DRY AND WET, -35°C TO 40°C |

\* To be ordered separately.

\*\* Sensor with arm.

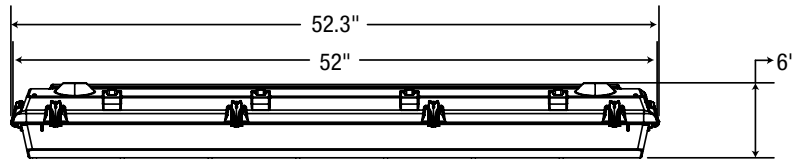
\*\*\* Min and max ambient temperature of the fixture with the specific sensor. Please verify fixture temperature on the first page for compatibility with sensor.

For more settings visit

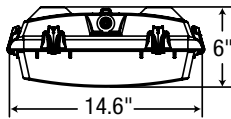
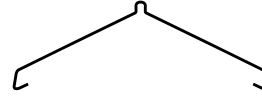
[www.aimlite.com/documentation/technical-information/](http://www.aimlite.com/documentation/technical-information/)

# WPFH-L GEN. 2

## DIMENSIONS



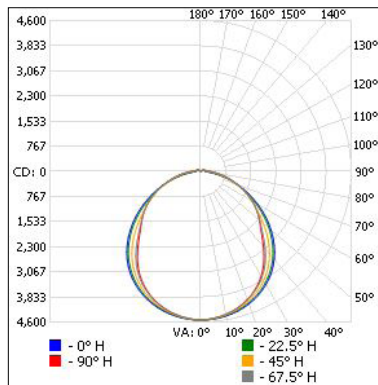
### STANDARD V HOOKS



## PHOTOMETRIC DATA<sup>1</sup>

WPFH-LA1B-80-(2/4/8)/40K • 13 337 LM

### POLAR CANDELA DISTRIBUTION



### ZONAL LUMEN SUMMARY

| ZONE   | LUMENS   | % FIXTURE |
|--------|----------|-----------|
| 0-30   | 3 526.4  | 26.4      |
| 0-40   | 5 757.0  | 43.2      |
| 0-60   | 9 969.3  | 74.8      |
| 60-90  | 2 901.4  | 21.8      |
| 70-100 | 1 578.2  | 11.8      |
| 90-120 | 390.9    | 2.9       |
| 0-90   | 12 870.7 | 96.5      |
| 90-180 | 465.8    | 3.5       |
| 0-180  | 13 336.5 | 100       |

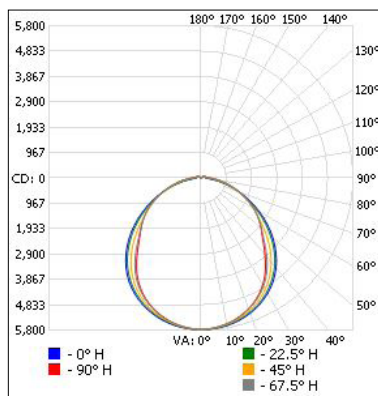
### ILLUMINANCE AT A DISTANCE

| CENTER BEAM FC |       | BEAM WIDTH |       |
|----------------|-------|------------|-------|
| 1.7'           | 1 570 | 5.2'       | 4.3'  |
| 3.3'           | 417   | 10.1'      | 8.4'  |
| 5.0'           | 182   | 15.4'      | 12.7' |
| 6.7'           | 101   | 20.6'      | 17.0' |
| 8.3'           | 65.9  | 25.5'      | 21.0' |
| 10.0'          | 45.4  | 30.7'      | 25.3' |

■ Vert. Spread: 113.9° ■ Hor. Spread: 103.4°

WPFH-LA2B-80-(2/4/8)/40K • 16 996 LM

### POLAR CANDELA DISTRIBUTION



### ZONAL LUMEN SUMMARY

| ZONE   | LUMENS   | % FIXTURE |
|--------|----------|-----------|
| 0-30   | 4 493.9  | 26.4      |
| 0-40   | 7 336.5  | 43.2      |
| 0-60   | 12 704.6 | 74.8      |
| 60-90  | 3 697.4  | 21.8      |
| 70-100 | 2 011.2  | 11.8      |
| 90-120 | 498.2    | 2.9       |
| 0-90   | 16 402.0 | 96.5      |
| 90-180 | 593.6    | 3.5       |
| 0-180  | 16 995.6 | 100       |

### ILLUMINANCE AT A DISTANCE

| CENTER BEAM FC |       | BEAM WIDTH |       |
|----------------|-------|------------|-------|
| 1.7'           | 2 001 | 5.2'       | 4.3'  |
| 3.3'           | 531   | 10.1'      | 8.4'  |
| 5.0'           | 231   | 15.4'      | 12.7' |
| 6.7'           | 129   | 20.6'      | 17.0' |
| 8.3'           | 83.9  | 25.5'      | 21.0' |
| 10.0'          | 57.8  | 30.7'      | 25.3' |

■ Vert. Spread: 113.9° ■ Hor. Spread: 103.4°

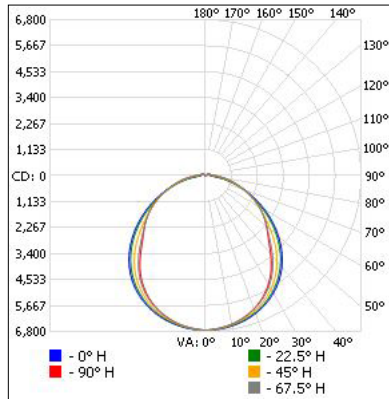
<sup>1</sup> Complete IES files available on our website.

# WPFH-L GEN. 2

## PHOTOMETRIC DATA<sup>1</sup>

WPFH-LA3B-80-[2/4/8]/40K • 19 806 LM

### POLAR CANDELA DISTRIBUTION



### ZONAL LUMEN SUMMARY

| ZONE   | LUMENS   | % FIXTURE |
|--------|----------|-----------|
| 0-30   | 5 237.0  | 26.4      |
| 0-40   | 8 549.6  | 43.2      |
| 0-60   | 14 805.3 | 74.8      |
| 60-90  | 4 308.8  | 21.8      |
| 70-100 | 2 343.8  | 11.8      |
| 90-120 | 580.6    | 2.9       |
| 0-90   | 19 114.2 | 96.5      |
| 90-180 | 691.7    | 3.5       |
| 0-180  | 19 805.9 | 100       |

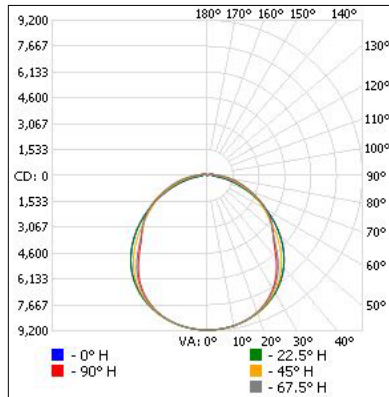
### ILLUMINANCE AT A DISTANCE

| CENTER BEAM FC |       | BEAM WIDTH |       |
|----------------|-------|------------|-------|
| 1.7'           | 2 332 | 5.2'       | 4.3'  |
| 3.3'           | 619   | 10.1'      | 8.4'  |
| 5.0'           | 270   | 15.4'      | 12.7' |
| 6.7'           | 150   | 20.6'      | 17.0' |
| 8.3'           | 97.8  | 25.5'      | 21.0' |
| 10.0'          | 67.4  | 30.7'      | 25.3' |

■ Vert. Spread: 113.9° ■ Hor. Spread: 103.4°

WPFH-LA4B-80-[2/4/8]/40K • 28 084 LM

### POLAR CANDELA DISTRIBUTION



### ZONAL LUMEN SUMMARY

| ZONE   | LUMENS   | % FIXTURE |
|--------|----------|-----------|
| 0-30   | 7 212.5  | 25.7      |
| 0-40   | 11 838.9 | 42.2      |
| 0-60   | 20 681.3 | 73.6      |
| 60-90  | 6 326.6  | 22.5      |
| 70-100 | 3 527.3  | 12.6      |
| 90-120 | 902.2    | 3.2       |
| 0-90   | 27 008.0 | 96.2      |
| 90-180 | 1 076.1  | 3.8       |
| 0-180  | 28 084.1 | 100       |

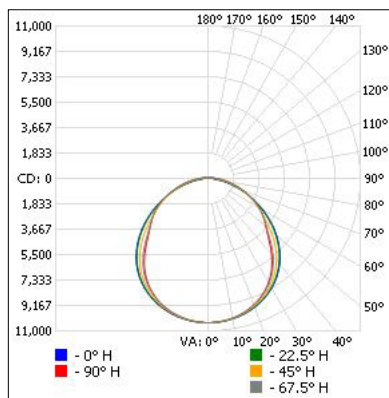
### ILLUMINANCE AT A DISTANCE

| CENTER BEAM FC |       | BEAM WIDTH |       |
|----------------|-------|------------|-------|
| 1.7'           | 3 167 | 5.2'       | 4.9'  |
| 3.3'           | 841   | 10.1'      | 9.5'  |
| 5.0'           | 366   | 15.3'      | 14.4' |
| 6.7'           | 204   | 20.5'      | 19.3' |
| 8.3'           | 133   | 25.4'      | 23.9' |
| 10.0'          | 91.5  | 30.6'      | 28.7' |

■ Vert. Spread: 113.7° ■ Hor. Spread: 110.3°

WPFH-LA5B-80-[2/4/8]/40K • 30 963 LM

### POLAR CANDELA DISTRIBUTION



### ZONAL LUMEN SUMMARY

| ZONE   | LUMENS   | % FIXTURE |
|--------|----------|-----------|
| 0-30   | 8 158.7  | 26.4      |
| 0-40   | 13 377.3 | 43.2      |
| 0-60   | 23 242.3 | 75.1      |
| 60-90  | 6 694.3  | 21.6      |
| 70-100 | 3 590.4  | 11.6      |
| 90-120 | 875.5    | 2.8       |
| 0-90   | 29 936.6 | 96.7      |
| 90-180 | 1 025.9  | 3.3       |
| 0-180  | 30 962.5 | 100       |

### ILLUMINANCE AT A DISTANCE

| CENTER BEAM FC |       | BEAM WIDTH |       |
|----------------|-------|------------|-------|
| 1.7'           | 3 602 | 5.2'       | 4.4'  |
| 3.3'           | 956   | 10.1'      | 8.6'  |
| 5.0'           | 416   | 15.4'      | 13.0' |
| 6.7'           | 232   | 20.6'      | 17.4' |
| 8.3'           | 151   | 25.5'      | 21.8' |
| 10.0'          | 104   | 30.7'      | 26.0' |

■ Vert. Spread: 113.8° ■ Hor. Spread: 104.9°

<sup>1</sup> Complete IES files available on our website.

Data is based upon tests performed in a controlled environment. Actual performance can vary depending on operating conditions. All products are subject to change or may be discontinued any time without notice.