

# WPFH-L LED VAPOR TIGHT HIGH BAY

SPECIFICATION GRADE FOR FOOD PROCESSING,  
BEVERAGE AND RIGOROUS APPLICATIONS



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 those applications that may require: washability/hose down, complete containment of the LEDs, the ability to withstand reduced temperatures and withstand 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
- 0-10 V dimming driver standard (down to 1%)

#### Ambient temperature

-40°C to +40°C

#### 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.

### COMPLIANCES

- Premium grade
- 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)

OVERVIEW			
<b>LIGHT SOURCE</b>	LED	<b>COLOR TEMPERATURE (K)</b>	3 000, 3500, 4 000, 5 000
<b>WATTS [W]</b>	83 - 223	<b>CRI</b>	80+
<b>LUMEN OUTPUT [LM]</b>	11 396 - 28 039	<b>WEIGHT [LBS]</b>	26
<b>EFFICIENCY [LM/W]</b>	114 - 151		

WARRANTY  
5 YEAR  
WARRANTY

PREMIUM  
QUALITY

LED

DAMP  
LOCATION

WET  
LOCATION

C US

NSF

66  
IP  
RATING

67  
IP  
RATING

ICES  
005

## ORDERING GUIDE

SERIES	LAMP TYPE	LUMEN PACKAGE [LM]	VOLTS [VAC]	COLOR TEMP. [K]	OPTIONS
WPFH	L - LED	A3A A4A A5A	4 - 120 8 - 347 2 - 120-277	30K - 3000 35K - 3500 40K - 4000 50K - 5000	DIM1 <sup>1</sup> - 5 WIRE CABLE FOR AC AND 0-10 V DIMMING DIM2 <sup>2</sup> - LEADING EDGE DIMMING 120 V ONLY L6 - 6' WHITE POWER CORD L10 - 10' WHITE POWER CORD L6-BK - 6' BLACK POWER CORD L10-BK - 10' BLACK POWER CORD AC - AVIATION CABLE KIT OS <sup>3</sup> - OCCUPANCY SENSORS DL <sup>4,5</sup> - EMERGENCY BACK UP (FROM 0°C - 25°C) 120 V AND 120-277 V ONLY U347 - MALE 347 V TWIST LOCK PLUG CMB - CEILING MOUNTING BRACKET KV - 10 KV SURGE PROTECTOR RMB - RIGID MOUNTING BRACKET SS - STAINLESS STEEL LATCHES U120 - MALE 120 V TWIST LOCK PLUG LT - LENS TETHER PC - POLYCARBONATE FROSTED LENS

<sup>1</sup> When selecting DIM1 option please also select cable option whether L6, L10, L6-BK or L10-BK.

<sup>2</sup> DIM2 is for A3A lumen package only.

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

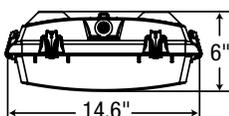
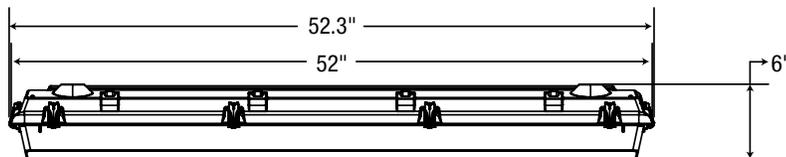
<sup>4</sup> Fixture functional in AC mode, when power goes off emergency battery powers LED boards. One battery per fixture is standard unless otherwise specified.

<sup>5</sup> When selecting DL option, the fixture maintains wet location status, however NEMA 4X and IP ratings are no longer applicable.

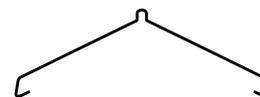
## TECHNICAL SPECIFICATION TABLE

LUMEN PACKAGE	WATTS [W]	VOLTS [VAC]	3000 K		3500 K		4000 K		5000 K		CRI	LIFE L70 [HRS]	TESTED HOURS LM-80 [HRS]	PF	THD [%]
			LUMEN OUTPUT [LM]	EFFICACY [LM/W]											
A3A	137	120-277 347	17136	131	17551	134	18048	138	18688	142				0.98	11
A4A	192		23827	124	24486	127	25276	131	26208	136				0.97	10
A5A	223		25492	114	26197	117	27042	121	28039	125				0.98	10

## DIMENSIONS



## STANDARD V HOOKS



## 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

### 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.

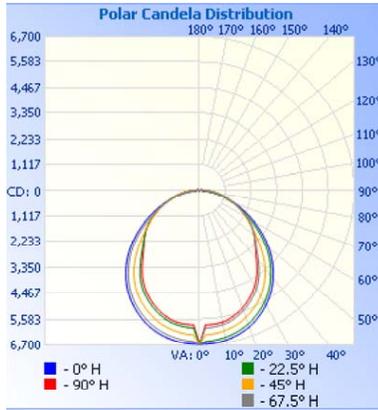
For more settings visit

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

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

WPFH-LA3A-[2/8]/40K • 18 043.3 LM

### POLAR CANDELA DISTRIBUTION



### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	4 876.8	27
0-40	7 918.1	43.9
0-60	13 549.9	75.1
60-90	3 879.5	21.5
70-100	2 157.7	12
90-120	498	2.8
0-90	17 429.4	96.6
90-180	613.9	3.4
0-180	18 043.3	100

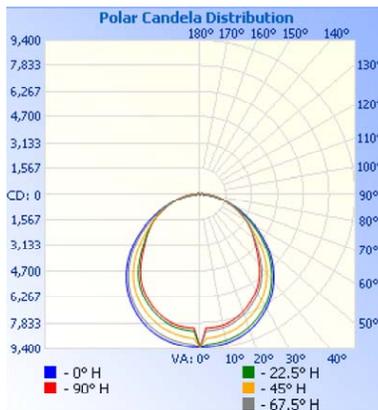
### ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
4.0'	416	11.4'	8.4'
8.0'	104	22.9'	16.8'
12.0'	46.2	34.3'	25.3'
16.0'	26.0	45.8'	33.7'
20.0'	16.6	57.2'	42.1'
24.0'	11.6	68.7'	50.5'

■ Vert. Spread: 110.1° ■ Hor. Spread: 92.9°

WPFH-LA4A-[2/8]/40K • 25 268.6 LM

### POLAR CANDELA DISTRIBUTION



### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	6 831.1	27
0-40	11 145.4	44.1
0-60	19 107.6	75.6
60-90	5 318.2	21
70-100	2 908.1	11.5
90-120	671.7	2.7
0-90	24 425.8	96.7
90-180	842.8	3.3
0-180	25 268.6	100

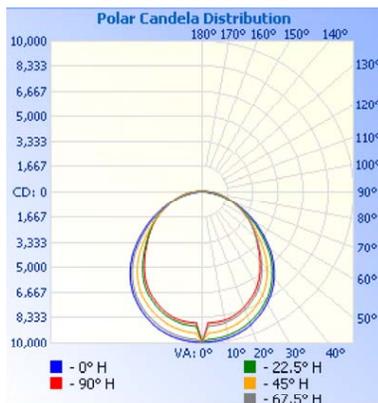
### ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
4.0'	581	11.5'	8.5'
8.0'	145	23.0'	17.0'
12.0'	64.6	34.4'	25.5'
16.0'	36.3	45.9'	34.0'
20.0'	23.3	57.4'	42.5'
24.0'	16.2	68.9'	51.0'

■ Vert. Spread: 110.3° ■ Hor. Spread: 93.5°

WPFH-LA5A-[2/8]/40K • 27 034.2 LM

### POLAR CANDELA DISTRIBUTION



### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	7 293.3	27
0-40	11 875.8	43.9
0-60	20 372.5	75.4
60-90	5 747.2	21.3
70-100	3 170.6	11.7
90-120	733.9	2.7
0-90	26 119.7	96.6
90-180	914.5	3.4
0-180	27 034.2	100

### ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
4.0'	620	11.4'	8.7'
8.0'	155	22.8'	17.4'
12.0'	68.9	34.2'	26.1'
16.0'	38.8	45.6'	34.8'
20.0'	24.8	57.1'	43.5'
24.0'	17.2	68.5'	52.2'

■ Vert. Spread: 109.9° ■ Hor. Spread: 94.8°

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