

## Series Spec Sheet

# FN-L

## LED VAPOR TIGHT HIGH BAY

Specification grade for food processing, beverage and rigorous applications

The FN-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.

### FEATURES AND SPECIFICATIONS

#### • Applications

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

#### Driver

- 120 V, 120-277 V, 347 V
- 0-10 V dimming driver standard (down to 1%)

#### Ambient temperature

-40°C to +40°C

#### • Construction

##### Housing

- Reinforced white fiberglass and impact resistant with 12 high durability and chemical resistant white POM latches. The captive design of the latch will not allow it to fly off during maintenance. The fixture can be opened from either side for easy installation and 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 poured-in gasket

##### Lens

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

#### 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)

#### • Specifications

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

### OVERVIEW

Light source	LED
Watts (W)	83 - 223
Lumen output (lm)	11 396 - 28 039
Efficiency (lm/W)	114 - 151
Color temperature (K)	3 000, 3 500, 4 000, 5 000
CRI	80+
Weight (lbs)	26



LED fixture



damp location



wet location



ICES 005

**ORDERING GUIDE**

Series	Lamp type	Lumen package (lm)	Volts (V)	Color temp. (K)	Options
FN	L - LED	S3A S4A S5A	A - 120 H - 347 W - 120-277	30K - 3 000 35K - 3 500 40K - 4 000 50K - 5 000	<b>DIM1</b> <sup>1</sup> - 5 wire cable for AC and 0-10 V dimming <b>DIM2</b> <sup>2</sup> - Leading edge dimming 120 V only <b>L6</b> - 6' white power cord <b>L10</b> - 10' white power cord <b>L6-BK</b> - 6' black power cord <b>L10-BK</b> - 10' black power cord <b>AC</b> - Aviation cable kit <b>OS</b> <sup>3</sup> - Occupancy sensor <b>DL</b> <sup>4,5</sup> - Emergency back up (from 0°C to +25°C) 120 V and 120-277 V only <b>U347</b> - Male 347 V twist lock plug <b>CMB</b> - Ceiling mounting bracket <b>KV</b> - 10 kV surge protector <b>RMB</b> - Rigid mounting bracket <b>SS</b> - Stainless steel latches <b>U120</b> - Male 120 V twist lock plug <b>LT</b> - Lens tether <b>PC</b> - 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 S3A lumen package only.

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

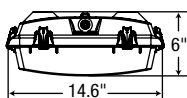
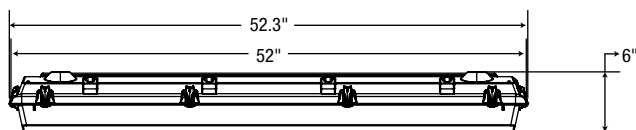
<sup>4</sup> Fixture functional in AC mode, when power goes off emergency bodine powers LED boards. One bodine per fixture is standard unless otherwise specified.

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

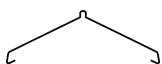
**TECHNICAL SPECIFICATION TABLE**

Lumen package	Watts (W)	Volts (V)	3 000 K		3 500 K		4 000 K		5 000 K		CRI	Life L70 (hrs)	Tested hours LM-80 (hrs)	Power factor	THD (%)
			Lumen (lm)	Efficacy (lm/W)	Lumen (lm)	Efficacy (lm/W)	Lumen (lm)	Efficacy (lm/W)	Lumen (lm)	Efficacy (lm/W)					
S3A	137	120-277 347	17 136	131	17 551	134	18 048	138	18 688	142	80+	187 000	10 000	0.98	11
S4A	192		23 827	124	24 486	127	25 276	131	26 208	136	80+	187 000	10 000	0.97	10
S5A	223		25 492	114	26 197	117	27 042	121	28 039	125	80+	187 000	10 000	0.98	10

**DIMENSIONS**



**STANDARD V HOOKS**



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.

## OCCUPANCY SENSORS

### ON-OFF SENSORS

Detection - On at (Detection Area) % during (Hold Time) min. Off

Part number	Position	Volts (V)	Technology	Height (ft)	Detection Area (%)	Hold time (min)	Daylight min level (lux)	Remote <sup>2</sup>	Location <sup>3</sup> (°C)
OSE-PO-0303 <sup>1</sup>	External	120-347	PIR	20-40	100	20	N/A	N/A	Dry, -10 to +40
OSE-PO-0304 <sup>1</sup>	External	120-347	PIR	20-40	100	20	N/A	N/A	Dry, -40 to +40
OSE-PO-0503 <sup>1</sup>	External	120-347	PIR	15-40	100	15	3 000	OSI-FSIR-100	Dry, 0 to +40
OSE-PO-0504 <sup>1</sup>	External	120-347	PIR	15-40	100	15	3 000	N/A	Dry, 0 to +40
OSE-PO-0704 <sup>1</sup>	External	120-277	PIR	40	100	15	N/A	N/A	Wet, -40 to +40
OSE-PO-0804 <sup>1</sup>	External	347	PIR	40	100	15	N/A	N/A	Wet, -40 to +40
OSI-FO-0301	Internal	120-277	High frequency	32 max	100	20	Disable	N/A	Dry and wet, -25 to +40
OSI-FO-0601	Internal	120-347	High frequency	25 max	100	30	Disable	68681	Dry and wet, -35 to +40
OSI-FO-0602	Internal	120-347	High frequency	25 max	100	15	Disable	68681	Dry and wet, -35 to +40
OSI-FO-0603	Internal	120-347	High frequency	25 max	100	15	100	68681	Dry and wet, -35 to +40

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### BI-LEVEL SENSORS

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

Part number	Position	Volts (V)	Technology	Height (ft)	Detection Area (%)	Hold time (min)	Stand-by Dim level (%)	Daylight min level (lux)	Remote <sup>2</sup>	Location <sup>3</sup> (°C)
OSE-PB-0202	External	120-347	PIR	20	100	30	40	Disable	OSI-FSIR-100	Wet, -40 to 40
OSI-FB-0301	Internal	120-277	High Frequency	32 max	100	20	30	Disable	N/A	Dry and wet, -25 to +40
OSI-FB-0302	Internal	120-277	High Frequency	32 max	100	20	10	Disable	N/A	Dry and wet, -25 to +40
OSI-FB-0303	Internal	120-277	High Frequency	32 max	100	20	50	Disable	N/A	Dry and wet, -25 to +40
OSE-FB-0402	External	120-347	High Frequency	50 max	100	20	30	50	OSI-RC-MH10	Wet, -35 to +40
OSI-FB-0603	Internal	120-347	High Frequency	25 max	100	15	40	Disable	68681	Dry and wet, -35 to +40
OSI-FB-0604	Internal	120-347	High Frequency	25 max	100	30	40	Disable	68681	Dry and wet, -35 to +40
OSI-FB-0605	Internal	120-347	High Frequency	25 max	100	15	30	Disable	68681	Dry and wet, -35 to +40
OSI-FB-0606	Internal	120-347	High Frequency	25 max	100	15	10	Disable	68681	Dry and wet, -35 to +40

### TRI-LEVEL SENSORS

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

Part number	Position	Volts (V)	Technology	Height (ft)	Detection Area (%)	Hold time (min)	Stand-by Dim level (%)	Stand-by period (min)	Daylight min level (lux)	Remote <sup>2</sup>	Location <sup>3</sup> (°C)
OSI-FT-0301	Internal	120-277	High Frequency	32 max	100	20	30	10	Disable	N/A	Dry and wet, -25 to +40
OSE-FT-0402	External	120-347	High Frequency	50 max	100	30	30	10	50	OSI-RC-MH10	Wet, -35 to +40
OSI-FT-0601	Internal	120-347	High Frequency	25 max	100	30	30	10	Disable	68681	Dry and wet, -35 to +40

<sup>1</sup> Sensor with arm

<sup>2</sup> To be ordered separately.

<sup>3</sup> 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

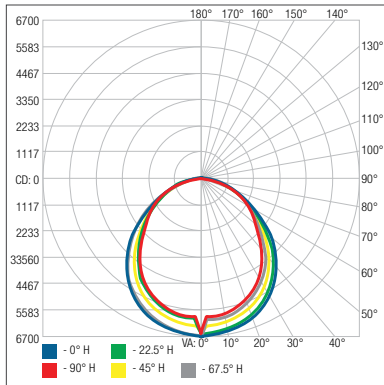
[www.standardpro.com/documentation/technical-information/](http://www.standardpro.com/documentation/technical-information/)

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**PHOTOMETRIC DATA<sup>1</sup>**

**FN-LS3A-(W/H)/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

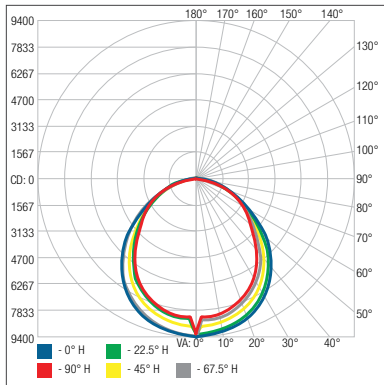
**Illuminance at a distance**

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°  
Horiz. spread: 92.9°

**FN-LS4A-(W/H)/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

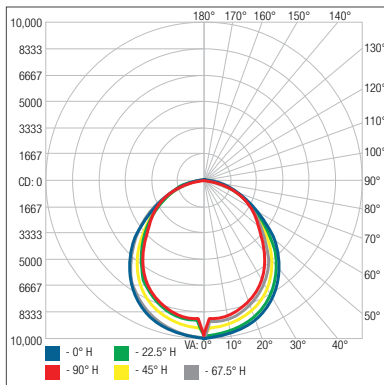
**Illuminance at a distance**

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°  
Horiz. spread: 93.5°

**FN-LS5A-(W/H)/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	2.70
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°  
Horiz. spread: 94.8°

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

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