

Project:		Type:
Drawn by:	Catalogue #:	Date:

Series Spec Sheet

FN-L GEN. 2

LED VAPOR TIGHT HIGH BAY

Specification Grade for Food Processing, Beverage and Rigorous Applications
Optional Emergency Remote

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 environments that may require: washability/hose down, complete containment of the LEDs, the ability to withstand reduced temperatures and moderate impact.

FEATURES AND SPECIFICATIONS

Applications

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

• 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

Specifications

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

OVERVIEW

Light source	LED
Watts (W)	77 - 205
Lumen output (Im)	12 620 - 31 470
Efficacy (Im/W)	143 - 176
Color temperature (K)	3 000, 3 500, 4 000, 5 000
CRI	80+
Weight (lbs)	26

Drive

- 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 to hold 4 times the fixture's weight.

• Emergency Lighting Compliances

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

Compliances

- Premium grade
- Suitable for wet and damp locations
- IP66, IP6
- 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













fixture



location



premium grade







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.





ORDERING GUIDE

FN -	– L		_	-	-		/	/		
Series	Lamp type	Lume	en package (Im)	CF	?I	Volts (V)	Color temp. (K)	Options		
FN	L - LED	S1B	Refer to the	80 -	80	A - 120	30K - 3 000	DIM11 -	5 wire cable for AC and 0-10 V dimming	
		S2B	technical			H - 347	35K - 3 500	DIM2 ² -	Leading edge dimming 120 V only	
		S3B >	specification			W - 120-277	40K - 4 000	L6 -	6' white power cable length	
		S4B	table for				50K - 5 000	L10 -	10' white power cable length	
		S5B	more details					L6-BK -	6' black power cable length	
								L10-BK -	10' black power cable length	
								AC -	Aviation cable kit	
								0S ³ -	Occupancy sensor	
								DL ^{4,5} -	Emergency back up (from 0°C to +25°C) 120 V and 120-277 V only	
								U347 -	Male 347 V twist lock plug	
								CMB -	Ceiling mounting bracket	
								KV -	10kV surge protector	
								RMB -	Rigid mounting bracket	
								SS -	Stainless steel latches (set of 10pcs)	
								U120 -	Male 120 V twist lock plug	
								LT -	Lens tether	
								PC -	Polycarbonate frosted lens	

TECHNICAL SPECIFICATION TABLE¹

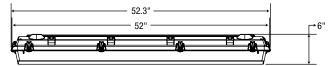
Lumen	Watts	Volts	3	0K	35	δK	4	OK	5	0K	CRI	Life	Tested hours	Power	THD
package	(W)	(V)	Lumen (lm)	Efficacy (lm/W)	Lumen (lm)	Efficacy (Im/W)	Lumen (lm)	Efficacy (Im/W)	Lumen (lm)	Efficacy (Im/W)		L70 (hrs)	LM-80 (hrs)	factor	(%)
	(**)	(•)	(1111)	(1111/ 44)	(1111)	(1111/ 44)	(1111)	(1111/ 44)	(1111)	(1111/ 44)		(1110)	(1110)		(70)
S1B	77		12 620	164	13 030	170	13 340	174	13 550	176		180 950		0.975	10.274
S2B	107	120-277	16 080	150	16 610	155	17 000	159	17 270	161		100 930		0.980	5.974
S3B	123	347	18 740	153	19 360	158	19 810	161	20 130	164	80+	173 200	9 000	0.966	9.367
S4B	179	347	26 570	148	27 440	153	28 090	157	28 530	159		173 200		0.939	9.282
S5B	205		29 300	143	30 260	147	30 970	151	31 470	153		163 850		0.972	10.245

¹ 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)
JJJPDU	Premium	High-Bay Luminaires for Commercial and Industrial Buildings

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.

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

DIM2 is for S3B lumen package only.

To see available options, please consult the occupancy sensors section.

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

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



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 ²	Location ³ (°C)
OSE-PO-03031	External	120-347	PIR	20-40	100	20	N/A	N/A	Dry, -10 to +40
OSE-P0-03041	External	120-347	PIR	20-40	100	20	N/A	N/A	Dry, -40 to +40
OSE-P0-05031	External	120-347	PIR	15-40	100	15	3 000	OSI-FSIR-100	Dry, 0 to +40
OSE-P0-05041	External	120-347	PIR	15-40	100	15	3 000	N/A	Dry, 0 to +40
OSE-P0-07041	External	120-277	PIR	40	100	15	N/A	N/A	Wet, -40 to +40
OSE-P0-08041	External	347	PIR	40	100	15	N/A	N/A	Wet, -40 to +40
0SI-F0-0301	Internal	120-277	High frequency	32 max	100	20	Disable	N/A	Dry and wet, -25 to +40
0SI-F0-0601	Internal	120-347	High frequency	25 max	100	30	Disable	68681	Dry and wet, -35 to +40
0SI-F0-0602	Internal	120-347	High frequency	25 max	100	15	Disable	68681	Dry and wet, -35 to +40
OSI-F0-0603	Internal	120-347	High frequency	25 max	100	15	100	68681	Dry and wet, -35 to +40

BI-LEVEL SENSORS

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

Part number	Position	Volts	Technology	Height	Detection	Hold time	Stand-by	Daylight min	Remote ²	Location ³
		(V)		(ft)	Area (%)	(min)	Dim level (%)	level (lux)		(°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

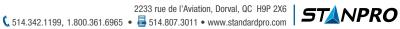
	1	,	0 (, ,		,	, , ,	, ,			
Part number	Position	Volts	Technology	Height	Detection	Hold time	Stand-by	Stand-by	Daylight min	Remote ²	Location ³
		(V)		(ft)	Area (%)	(min)	Dim level (%)	period (min)	level (lux)		(°C)
0SI-FT-0301	Internal	120-277	High Frequency	32 max	100	20	30	10	Disable	N/A	Dry and wet, -25 to +40
0SE-FT-0402	External	120-347	High Frequency	50 max	100	30	30	10	50	OSI-RC-MH10	Wet, -35 to +40
0SI-FT-0601	Internal	120-347	High Frequency	25 max	100	30	30	10	Disable	68681	Dry and wet, -35 to +40

¹ Sensor with arm

For more settings visit

www.standardpro.com/documentation/technical-information/

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² To be ordered separately.

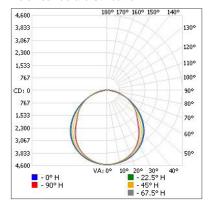
² Min and max ambient temperature of the fixture with the specific sensor. Please verify fixture temperature on the first page for compatibility with sensor.



PHOTOMETRIC DATA¹

FN-LS1B-80-(A/H/W)/40K • 13 337 Im

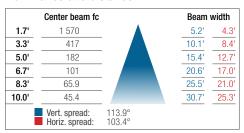
Polar candela distribution



Zonal lumen summary

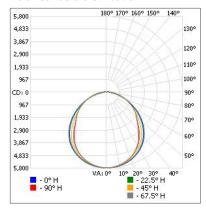
Zone	Lumens	% Fixture			
0-30	3 526.4	26.4			
0-40	5 757.0	43.2			
0-60	9 969.3	74.8			
60-90	2 901.4	21.8			
70-100	1 578.2	11.8			
90-120	390.9	2.9			
0-90	12 870.7	96.5			
90-180	465.8	3.5			
0-180	13 336.5	100			

Illuminance at a distance



FN-LS2B-80-(A/H/W)/40K • 16 996 Im

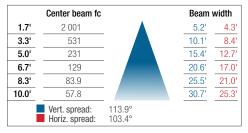
Polar candela distribution



Zonal lumen summary

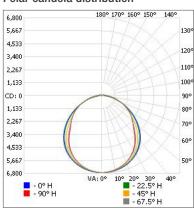
Zone	Lumens	% Fixture
0-30	4 493.9	26.4
0-40	7 336.5	43.2
0-60	12 704.6	74.8
60-90	3 697.4	21.8
70-100	2 011.2	11.8
90-120	498.2	2.9
0-90	16 402.0	96.5
90-180	593.6	3.5
0-180	16 995.6	100

Illuminance at a distance



FN-LS3B-80-(A/H/W)/40K • 19 806 Im

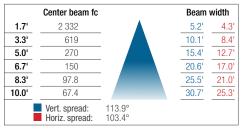
Polar candela distribution



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



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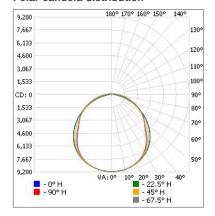
¹ Complete IES files available on our website.



PHOTOMETRIC DATA¹

FN-LS4B-80-(A/H/W)/40K • 28 084 Im

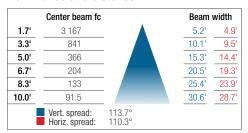
Polar candela distribution



Zonal lumen summary

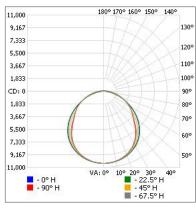
Zone	Lumens	% Fixture			
0-30	7 212.5	25.7			
0-40	11 838.9	42.2			
0-60	20 681.3	73.6			
60-90	6 326.6	22.5			
70-100	3 527.3	12.6			
90-120	902.2	3.2			
0-90	27 008.0	96.2			
90-180	1 076.1	3.8			
0-180	28 084.1	100			

Illuminance at a distance



FN-LS5B-80-(A/H/W)/40K • 30 963 Im

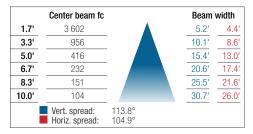
Polar candela distribution



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



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¹ Complete IES files available on our website.