

## Series Spec Sheet

# L1FB

## LED HIGH BAY LUMINAIRE

Stanpro's L1FB is ideally suited for high ceiling applications where uniform and efficient lighting is required. The L1FB High Bay is a perfect solution for industrial and commercial applications that require low maintenance and high performance.

### FEATURES AND SPECIFICATIONS

#### • Applications

- Warehouses
- Factories
- Sports arenas
- Large stores
- Distribution facilities

#### • Housing

- Housing made with 22-gauge rolled steel with enamel powder coating applied post-production
- Easy to install for suspended mounting
- Specular reflectors with high reflectance
- Wireguard is optional and is secured to the luminaire with screws
- Easy driver access from the top of the luminaire
- 6' of cable standard

#### • Specifications

##### Driver

- 120-277 V, 347 V
- 0-10 V dimming driver standard

##### Mounting

Hook mount standard. Aircraft cables available separately.

##### Ambient temperature

- S1A, S2A & S3A:** -40°C to +55°C
- S4A:** -40°C to +45°C
- S5A & S6A:** -40°C to +40°C

#### • Compliances

- Suitable for damp locations
- cCSAus
- UL1598, UL8750
- CSA Certified to C22.2 #141-15 (When use with DL option)



### OVERVIEW

Light source	LED
Watts (W)	86 - 405
Lumen output (lm)	12 085 - 54 396
Efficiency (lm/W)	127 - 150
Color temperature (K)	3 000, 3 500, 4 000, 5 000
CRI	80+
Weight (lbs)	15.23



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).

**ORDERING GUIDE**

L1FB	L				
Series	Lamp type	Lumen package (lm)	Volts (V)	Color temp. (K)	Options
L1FB	L - LED	S1A S2A S3A S4A S5A S6A	H - 347 W - 120-277	30K - 3 000 35K - 3 500 40K - 4 000 50K - 5 000	DIM1 - 5 wire cable for AC and 0-10 V dimming <sup>1</sup> L10 - 10' white power cord L10-BK - 10' black power cord KV - 10 kV surge protector OS - Occupancy sensor <sup>2</sup> FRL - Frosted prismatic lens CPL - Clear prismatic lens U347 - Male 347 V twist lock plug DL <sup>3</sup> - Emergency back up (from 0°C - 25°C) 120-277 V only

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

<sup>2</sup> To see available options, please consult the occupancy sensors section.

<sup>3</sup> Fixture functional in AC mode, when power goes off emergency bodine powers LED boards. One bodine per fixture is standard unless otherwise specified.  
DL available with all lumen packages except S5A

**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)	Efficiency (lm/W)	Lumen (lm)	Efficiency (lm/W)	Lumen (lm)	Efficiency (lm/W)	Lumen (lm)	Efficiency (lm/W)					
LS1A	86	120-277 347	12 085	141	12 476	146	12 832	150	12 586	147	80+	201 220	10 000	0.97	11
LS2A	137		18 967	138	19 580	142	20 139	147	19 754	144	80+	179 640	10 000	0.97	11
LS3A	187		24 638	131	25 434	136	26 160	140	25 660	137	80+	179 640	10 000	0.97	11
LS4A	246		31 606	128	32 628	133	33 559	136	32 917	134	80+	179 640	10 000	0.97	11
LS5A	327		43 508	133	44 914	137	46 196	141	45 313	138	80+	198 490	10 000	0.97	11
LS6A	405		51 231	127	52 887	131	54 396	134	53 357	132	80+	186 660	10 000	0.97	11

**ACCESSORIES (order separately)**

Part number	Type	Compatible with
WIR138-9.8	Aircraft suspension cables (10")	All configurations
BKT347	4" suspension chains (set of 2)	All configurations
WGD060-KIT	White wireguard	S1A, S2A, S3A, S4A
WGD061-KIT	White wireguard	S5A, S6A

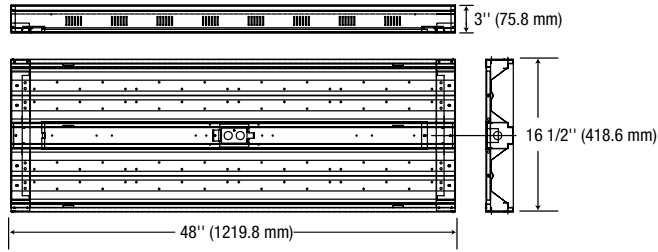
**COMPATIBLE DIMMERS**

Brand	Model number
Acurity Brands	ISD-BC
Cooper	Devine DF10P-XX SKYE SF10P-XX
Hubbell Building Automation	Light Hawk2 LHD-IRS3-N-XX Light Hawk2 LHD-IRS3-N347-XX
Leviton	IllumaTech IP710-DLZ, IP710DLX
Lutron	Nova NFTV* dimmer plus PP-120H/PP-277H relay packs Nova T NTSTV DIVA DDTV, DVSVCTV plus PP-120H/PP-277H relay packs

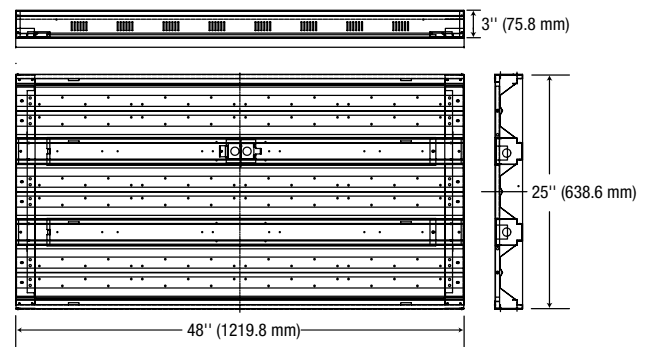
Data is based upon tests performed in a controlled environment. Actual performance can vary depending on operating conditions. All products are subject to change or may be discontinued any time without notice.

**DIMENSIONS**

S1A, S2A, S3A, S4A



S5A, S6A



**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	NA		Dry, -10 to +55
OSE-PO-0304 <sup>1</sup>	External	120-347	PIR	20-40	100	20	NA		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 +55
OSE-PO-0504 <sup>1</sup>	External	120-347	PIR	15-40	100	15	3 000		Dry, 0 to +55
OSE-F0-0401	External	120-347	High Frequency	50 max	100	20	Disable	68681	Wet, -35 to +55

**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>1</sup>	Location <sup>2</sup> (°C)
OSE-PB-0202	External	120-347	PIR	20	100	30	40	Disable	OSI-FSIR-100	Wet, -40 to +55
OSE-FB-0401	External	120-347	High Frequency	50 max	100	20	30	Disable	68681	Wet, -35 to +55

<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.

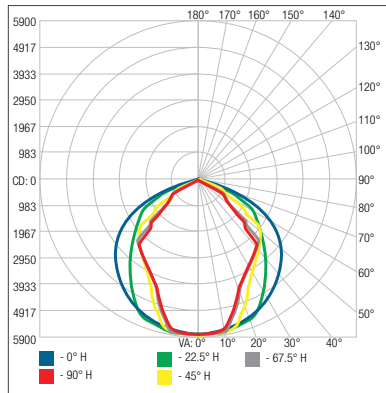
For more settings visit [www.standardpro.com/documentation/technical-information/](http://www.standardpro.com/documentation/technical-information/)

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

**L1FB-LS1A-(W/H)-40K • 12 143.2 lm**

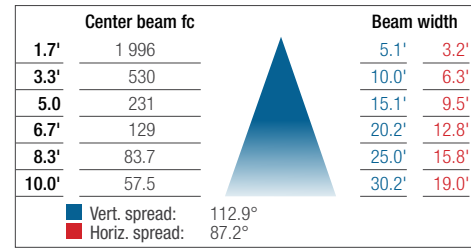
**Polar candela distribution**



**Zonal lumen summary**

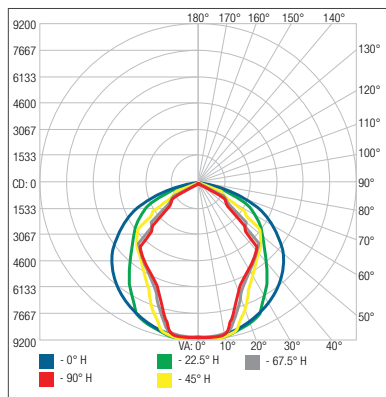
Zone	Lumens	% Fixture
0-30	4 110.0	33.8
0-40	6 520.7	53.7
0-60	10 740.5	88.4
60-90	1 402.7	11.6
0-90	12 143.2	100

**Illuminance at a distance**



**L1FB-LS2A-(W/H)-40K • 19 052.7 lm**

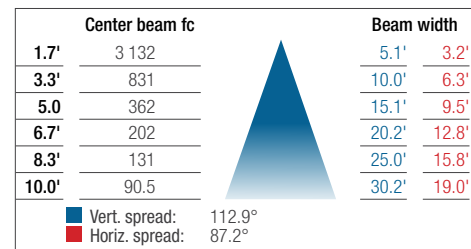
**Polar candela distribution**



**Zonal lumen summary**

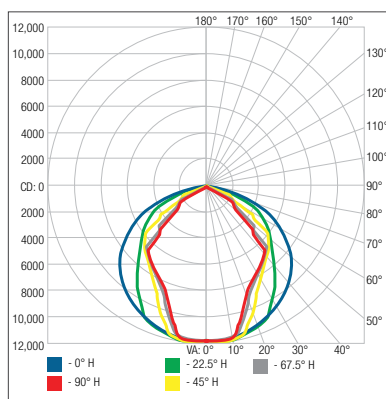
Zone	Lumens	% Fixture
0-30	6 448.7	33.8
0-40	10 230.9	53.7
0-60	16 851.9	88.4
60-90	2 200.8	11.6
0-90	19 052.7	100

**Illuminance at a distance**



**L1FB-LS3A-(W/H)-40K • 24 760.0 lm**

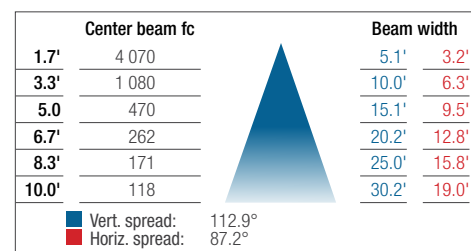
**Polar candela distribution**



**Zonal lumen summary**

Zone	Lumens	% Fixture
0-30	8 380.4	33.8
0-40	13 295.7	53.7
0-60	21 899.9	88.4
60-90	2 860.1	11.6
0-90	24 760.0	100

**Illuminance at a distance**



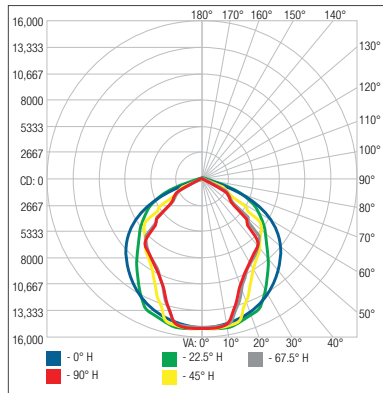
<sup>1</sup> Complete IES files available on our website.

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

### L1FB-LS4A-(W/H)-40K • 31 754.5 lm

#### Polar candela distribution



#### Zonal lumen summary

Zone	Lumens	% Fixture
0-30	10 747.8	33.8
0-40	17 051.6	53.7
0-60	28 086.4	88.4
60-90	3 668.1	11.6
0-90	31 754.5	100

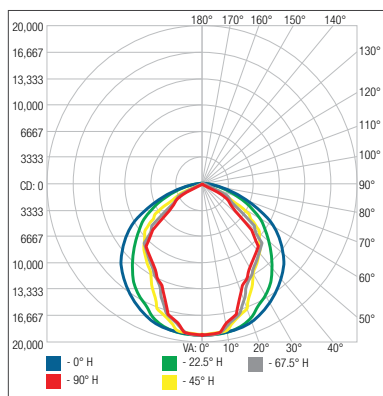
#### Illuminance at a distance

Center beam fc	Beam width	
	5.1'	3.2'
1.7'	5 220	10.0'
3.3'	1 385	6.3'
5.0'	603	9.5'
6.7'	336	12.8'
8.3'	219	15.8'
10.0'	151	19.0'

■ Vert. spread: 112.9°  
■ Horiz. spread: 87.2°

### L1FB-LS5A-(W/H)-40K • 43 730.2 lm

#### Polar candela distribution



#### Zonal lumen summary

Zone	Lumens	% Fixture
0-30	13 883.1	31.7
0-40	22 238.2	50.9
0-60	37 796.9	86.4
60-90	5 933.4	13.6
0-90	43 730.2	100

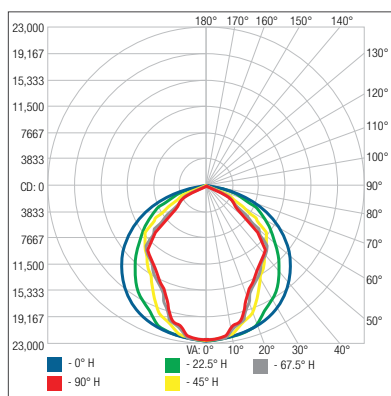
#### Illuminance at a distance

Center beam fc	Beam width	
	6.2'	3.3'
1.7'	6 660	12.0'
3.3'	1 767	6.5'
5.0'	770	9.8'
6.7'	429	13.2'
8.3'	279	16.3'
10.0'	192	19.7'

■ Vert. spread: 112.9°  
■ Horiz. spread: 89.0°

### L1FB-LS6A-(W/H)-40K • 51 514.2 lm

#### Polar candela distribution



#### Zonal lumen summary

Zone	Lumens	% Fixture
0-30	16 354.3	31.7
0-40	26 196.6	50.9
0-60	44 524.7	86.4
60-90	6 989.5	13.6
0-90	51 514.2	100

#### Illuminance at a distance

Center beam fc	Beam width	
	6.2'	3.3'
1.7'	7 846	12.0'
3.3'	2 082	6.5'
5.0'	907	9.8'
6.7'	505	13.2'
8.3'	329	16.3'
10.0'	227	19.7'

■ Vert. spread: 112.9°  
■ Horiz. spread: 89.0°

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

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