

## 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            |
| Efficacy (lm/W)       | 127 - 150                  |
| Color temperature (K) | 3 000, 3 500, 4 000, 5 000 |
| CRI                   | 80+                        |
| Weight (lbs)          | 15.23                      |

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**ORDERING GUIDE**

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

**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) |     |                |                          |              |         |
| LS1A          | 86        | 120-277<br>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           |

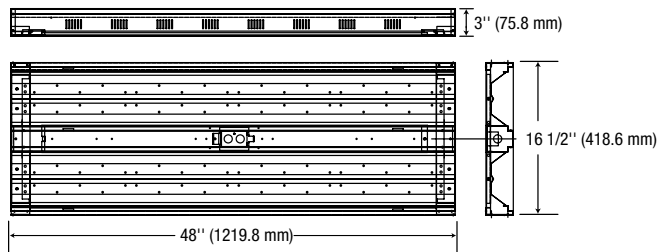
**COMPATIBLE DIMMERS**

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

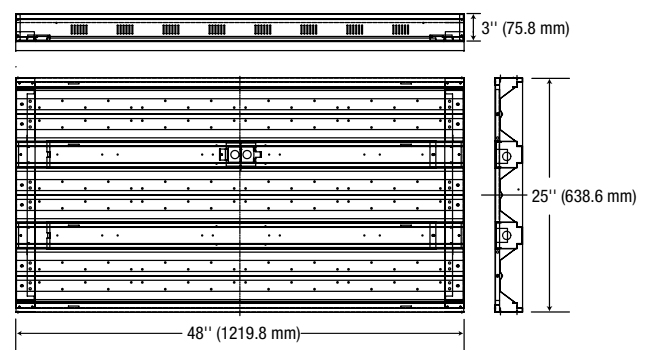
Data is based upon tests performed in a controlled environment. Actual performance can vary depending on operating conditions. All products are subject to change or may be discontinued any time without notice.

**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            |

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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>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

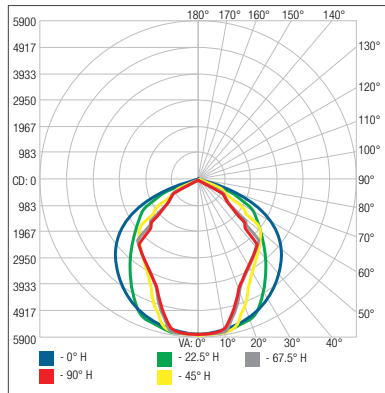
[www.standardpro.com/documentation/technical-information/](http://www.standardpro.com/documentation/technical-information/)

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

**L1FB-LS1A-(W/H)-40K • 12 143.2 lm**

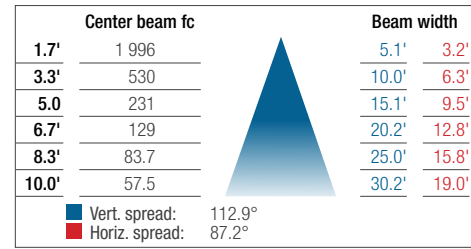
**Polar candela distribution**



**Zonal lumen summary**

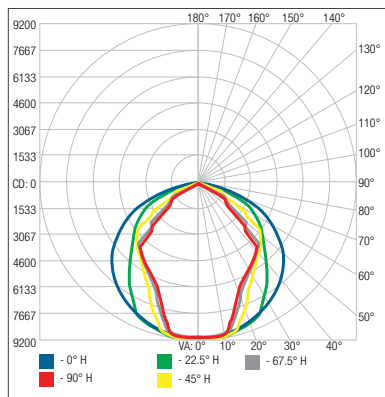
| Zone  | Lumens   | % Fixture |
|-------|----------|-----------|
| 0-30  | 4 110.0  | 33.8      |
| 0-40  | 6 520.7  | 53.7      |
| 0-60  | 10 740.5 | 88.4      |
| 60-90 | 1 402.7  | 11.6      |
| 0-90  | 12 143.2 | 100       |

**Illuminance at a distance**



**L1FB-LS2A-(W/H)-40K • 19 052.7 lm**

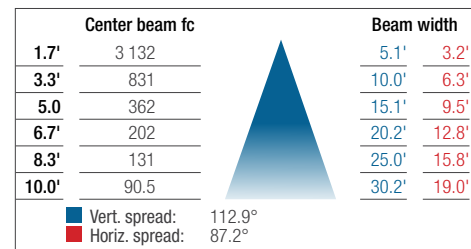
**Polar candela distribution**



**Zonal lumen summary**

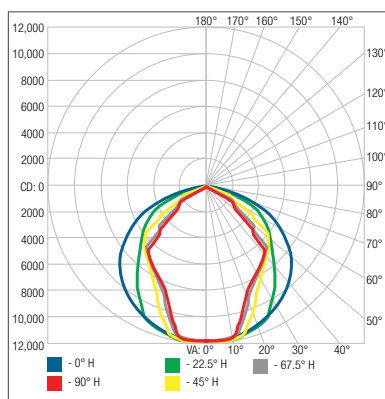
| Zone  | Lumens   | % Fixture |
|-------|----------|-----------|
| 0-30  | 6 448.7  | 33.8      |
| 0-40  | 10 230.9 | 53.7      |
| 0-60  | 16 851.9 | 88.4      |
| 60-90 | 2 200.8  | 11.6      |
| 0-90  | 19 052.7 | 100       |

**Illuminance at a distance**



**L1FB-LS3A-(W/H)-40K • 24 760.0 lm**

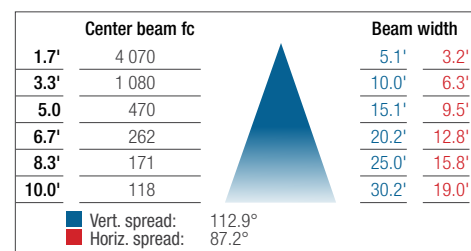
**Polar candela distribution**



**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**



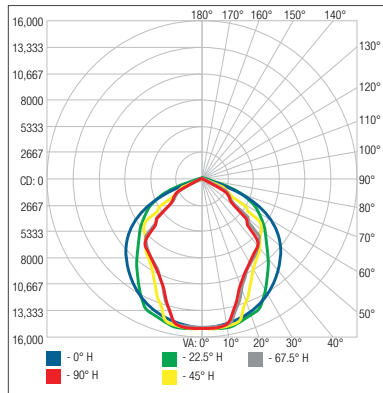
<sup>1</sup> Complete IES files available on our website.

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.

## 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       |

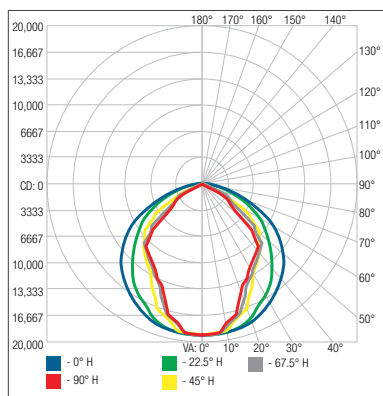
#### Illuminance at a distance

| 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       |

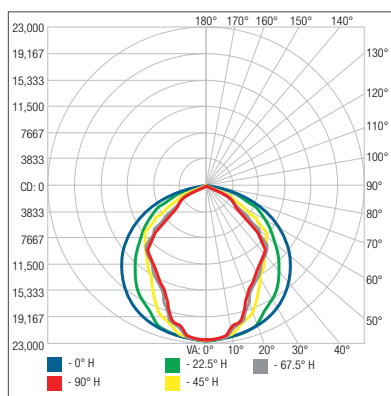
#### Illuminance at a distance

| 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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