



# SFP-LED

## Smart Panel LED Fixture

Client: \_\_\_\_\_  
Project Name: \_\_\_\_\_

Order #: \_\_\_\_\_  
Type: \_\_\_\_\_ Qty: \_\_\_\_\_

### Performance Data

CRI  
85

CCT  
3000K, 3500K, 4000K, 5000K

Projected Lifetime  
104,000 Hours (L70)

Dimming  
0-10V dimming standard,  
100% down to 10%

Operating Temperature  
-30°C to +50°C Ambient

UL Listed  
Suitable for dry and damp  
locations



|  |                       |                     |                     |                      |   |   |
|--|-----------------------|---------------------|---------------------|----------------------|---|---|
| <b>CCEA</b><br>Chicago Plenum<br>Compliant | <b>RoHS</b><br>Listed | <b>CE</b><br>Listed | <b>UL</b><br>Listed | <b>DLC</b><br>Listed | <b>10 Yr</b><br>Warranty<br>Including Labor | <b>USA</b><br>Buy American<br>Act Compliant |
|--|-----------------------|---------------------|---------------------|----------------------|---|---|

### Description

SFP-LED is an LED troffer luminaire designed for installation in 1x4, 2x2 and 2x4 conventional suspended grid ceilings for new construction or retrofit projects. Featuring superior, evenly dispersed lighting that sets the standard in performance for solid state ceiling luminaires, the SFP can also significantly reduce the number of fixtures needed to light a given area. Custom fixture and power supply kit design allows for quick and easy installation, reducing costly labor time. The superior thermal design will extend both the life of the fixture and power supply. While still emitting 70% of the original light output after more than 100,000 hours, SFP-LED will last many years without the need for costly replacement or maintenance.

### Features

- Recommended for offices, schools, hospitals, medical facilities and other commercial and institutional applications
- Finished Trim Color: White
- Housing: Extruded aluminum frame
- Lens Type: Frosted polycarbonate diffuser
- Choose the perfect lumen output using Select-a-Watt Technology
- IP44 damp location rated
- Package includes seismic clip kit and install instructions
- Power Factor: > 0.95; Total Harmonic Distortion (THD): <10%
- UL and cUL Listed for Insulation Contact (IC)
- CE Listed, RoHS compliant, FCC Compliant (Title 47 CFR Part 15)
- CCEA (Chicago Plenum) compliant
- DLC Listed for utility rebates (See matrix below)



### Ordering Information

#### A FIXTURE SERIES

SFP-LED Smart Flat Panel LED Fixture

#### B SIZE

|    |        |
|----|--------|
| 14 | 1 x 4' |
| 22 | 2 x 2' |
| 24 | 2 x 4' |

#### C WATTAGE/LUMENS (SIZE 14)

|    |                         |
|----|-------------------------|
| 20 | 20W/2020 <sup>1,2</sup> |
| 30 | 30W/2830 <sup>1,2</sup> |
| 40 | 40W/4270 <sup>1,2</sup> |

#### (SIZE 22)

|    |                         |
|----|-------------------------|
| 20 | 20W/2060 <sup>1,2</sup> |
| 30 | 30W/3060 <sup>1,2</sup> |
| 40 | 40W/4660 <sup>1,2</sup> |

#### (SIZE 24)

|    |                         |
|----|-------------------------|
| 20 | 20W/2045 <sup>1</sup>   |
| 30 | 30W/2910 <sup>1,2</sup> |
| 40 | 40W/4330 <sup>1,2</sup> |

#### D CCT

|    |       |
|----|-------|
| 30 | 3000K |
| 35 | 3500K |
| 40 | 4000K |
| 50 | 5000K |

#### E VOLTAGE

|     |          |
|-----|----------|
| UNV | 120-277V |
|-----|----------|

#### F OPTIONS

|     |   |
|-----|---|
| SMK | Surface Mount Kit <sup>5</sup>                  |
| DFK | Hard Ceiling/Flange Kit <sup>5</sup>            |
| EM  | Emergency Backup <sup>4</sup>                   |
| C60 | 60" Adjustable Pendant Mount Cable <sup>3</sup> |

<sup>1</sup> Delivered Lumens (4000K) - Please see Page 2 for full lumen chart.

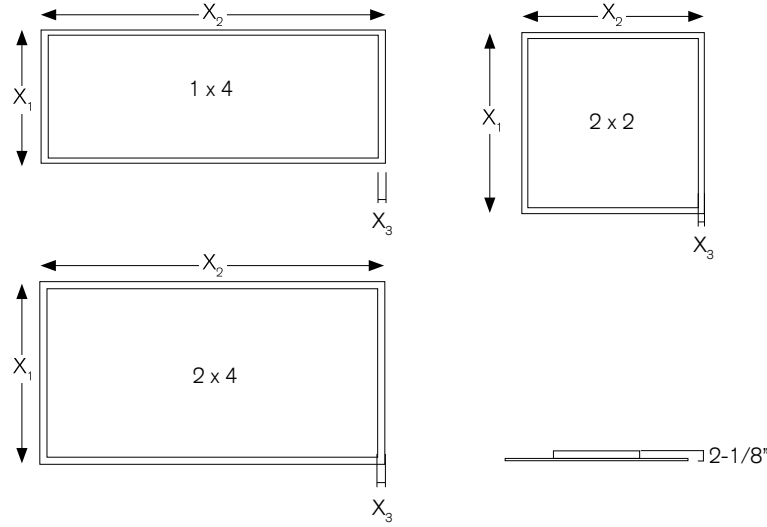
<sup>2</sup> DLC Listed Wattage, View Page 2 for DLC Matrix breakdown by color temp and wattage

<sup>3</sup> Consult Factory for any length greater than 60"

<sup>4</sup> View more information on EM pack on Pages 4-5

<sup>5</sup> Shipped separately, will appear as separate line item on orders

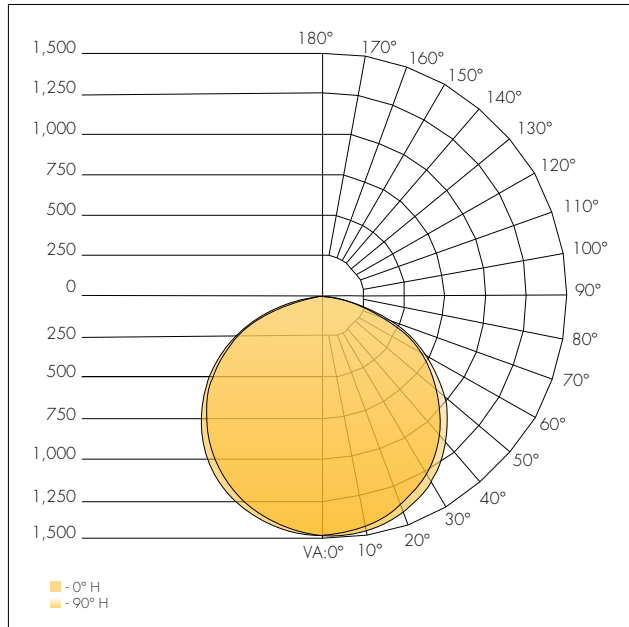
**Dimensions**



|                      | Inches      |             |             |
|----------------------|-------------|-------------|-------------|
|                      | Size: 1 x 4 | Size: 2 x 2 | Size: 2 x 4 |
| <b>X<sub>1</sub></b> | 11.875      | 23.75       | 23.75       |
| <b>X<sub>2</sub></b> | 47.75       | 23.75       | 47.75       |
| <b>X<sub>3</sub></b> | 0.875       | 0.875       | 0.875       |

**Photometrics**

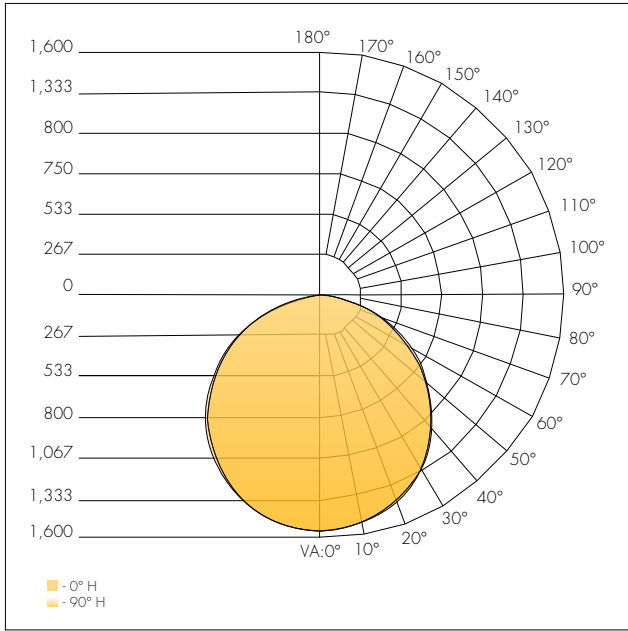
Model 1x4 40W 4000K



Zonal Lumen Summary

| Zone   | Lumens  | %Luminaire |
|--------|---------|------------|
| 0-30   | 1,145.8 | 26.4%      |
| 0-40   | 1,880.8 | 43.3%      |
| 0-60   | 3,343.7 | 77%        |
| 60-90  | 954.8   | 22%        |
| 70-100 | 421.7   | 9.7%       |
| 90-120 | 8.1     | 0.2%       |
| 0-90   | 4,298.5 | 98.9%      |
| 90-180 | 46.6    | 1.1%       |
| 0-180  | 4,345.0 | 100%       |

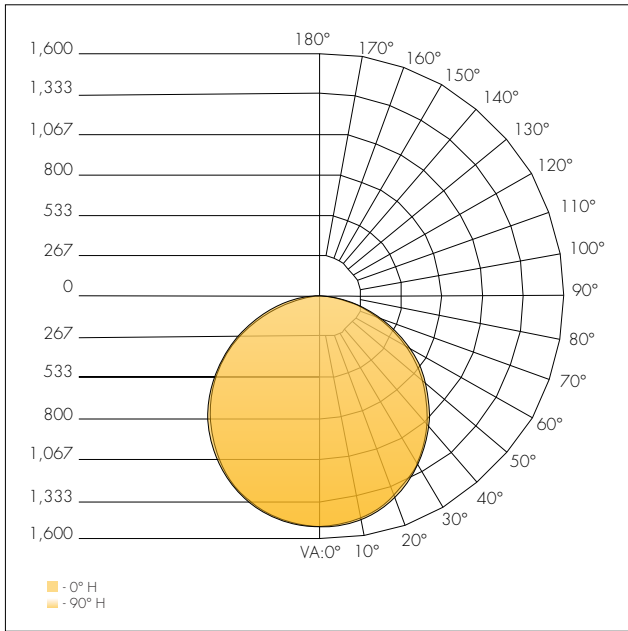
Model 2x2 40W 4000K



Zonal Lumen Summary

| Zone   | Lumens  | %Luminaire |
|--------|---------|------------|
| 0-30   | 1,196.3 | 26.5%      |
| 0-40   | 1,963.1 | 43.4%      |
| 0-60   | 3,488.1 | 77.1%      |
| 60-90  | 985.0   | 21.8%      |
| 70-100 | 431.0   | 9.5%       |
| 90-120 | 8.2     | 0.2%       |
| 0-90   | 4,473.1 | 98.9%      |
| 90-180 | 49.5    | 1.1%       |
| 0-180  | 4,522.6 | 100%       |

Model 2x4 40W 4000K



Zonal Lumen Summary

| Zone   | Lumens  | %Luminaire |
|--------|---------|------------|
| 0-30   | 1,169.3 | 27%        |
| 0-40   | 1,917.8 | 44.3%      |
| 0-60   | 3,401.4 | 78.5%      |
| 60-90  | 932.1   | 21.5%      |
| 70-100 | 395.4   | 9.1%       |
| 90-120 | 0.000   | 0%         |
| 0-90   | 4,333.4 | 100%       |
| 90-180 | 0.000   | 0%         |
| 0-180  | 4,333.4 | 100%       |

DLC Listed

|       | 1 x 4 |     |     | 2 x 2 |     |     | 2 x 4 |     |     |
|-------|-------|-----|-----|-------|-----|-----|-------|-----|-----|
|       | 20W   | 30W | 40W | 20W   | 30W | 40W | 20W   | 30W | 40W |
| 3000K | X     | X   | X   | X     | X   | X   |       | X   | X   |
| 3500K | X     | X   | X   | X     | X   | X   |       | X   | X   |
| 4000K | X     | X   | X   | X     | X   | X   |       | X   | X   |
| 5000K | X     | X   | X   | X     | X   | X   |       | X   | X   |

**Lumen Output**

Lumen Chart

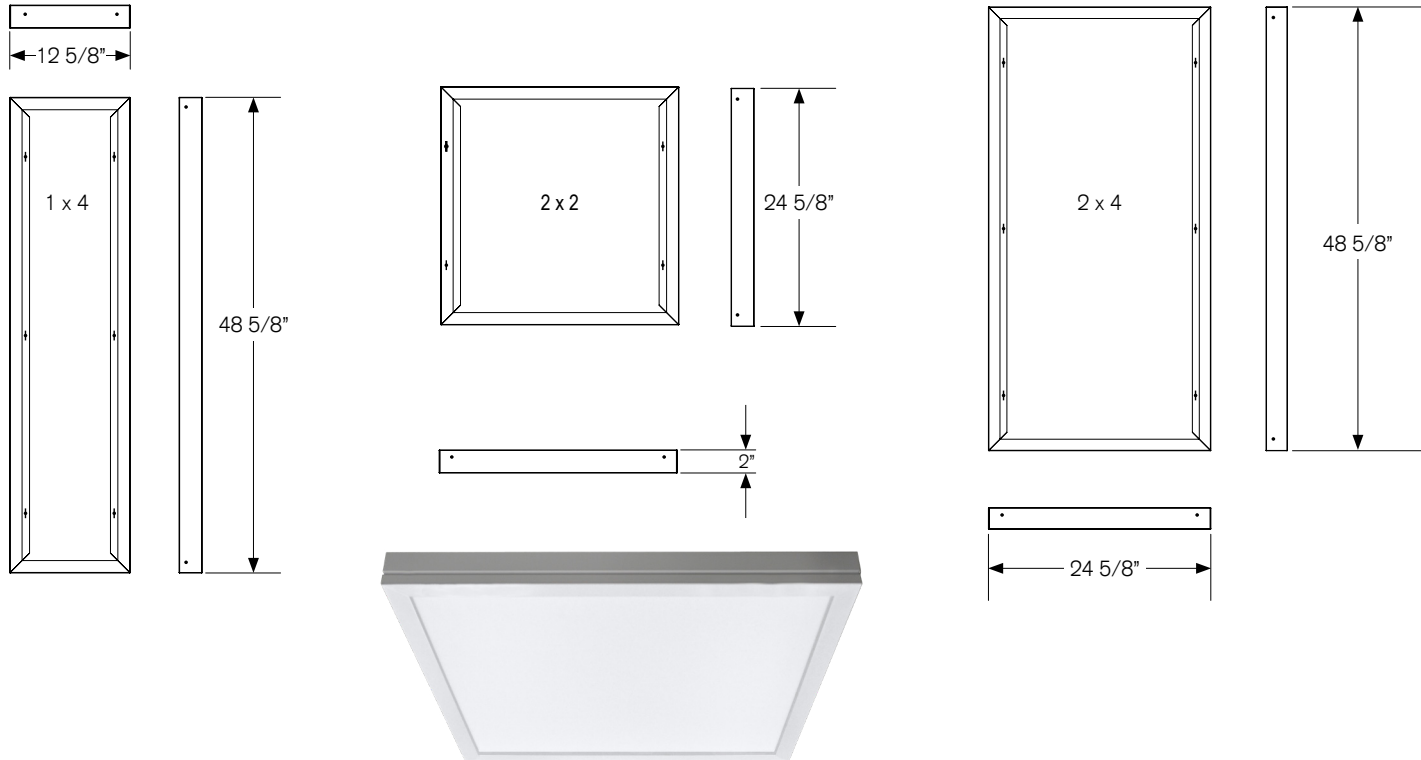
| Size  | Nominal Wattage | System Wattage | 5000K | LPW | 4000K | LPW | 3500K | LPW | 3000K | LPW |
|-------|-----------------|----------------|-------|-----|-------|-----|-------|-----|-------|-----|
| 1 x 4 | 20              | 18             | 2110  | 115 | 2019  | 110 | 1973  | 108 | 1927  | 105 |
|       | 30              | 26             | 2956  | 115 | 2827  | 110 | 2776  | 108 | 2699  | 105 |
|       | 40              | 39             | 4462  | 115 | 4268  | 110 | 4190  | 108 | 4074  | 105 |
| 2 x 2 | 20              | 17             | 2154  | 123 | 2061  | 118 | 2014  | 115 | 1967  | 112 |
|       | 30              | 26             | 3186  | 123 | 3056  | 118 | 2979  | 115 | 2901  | 112 |
|       | 40              | 39             | 4859  | 123 | 4661  | 118 | 4543  | 115 | 4424  | 112 |
| 2 x 4 | 20              | 18             | 2137  | 115 | 2045  | 110 | 1998  | 108 | 1952  | 105 |
|       | 30              | 27             | 3041  | 115 | 2909  | 110 | 2843  | 108 | 2777  | 105 |
|       | 40              | 39             | 4531  | 115 | 4334  | 110 | 4225  | 108 | 4137  | 105 |

\*Lumen outputs are based on 3000K performance data and then scaled to other color temperatures

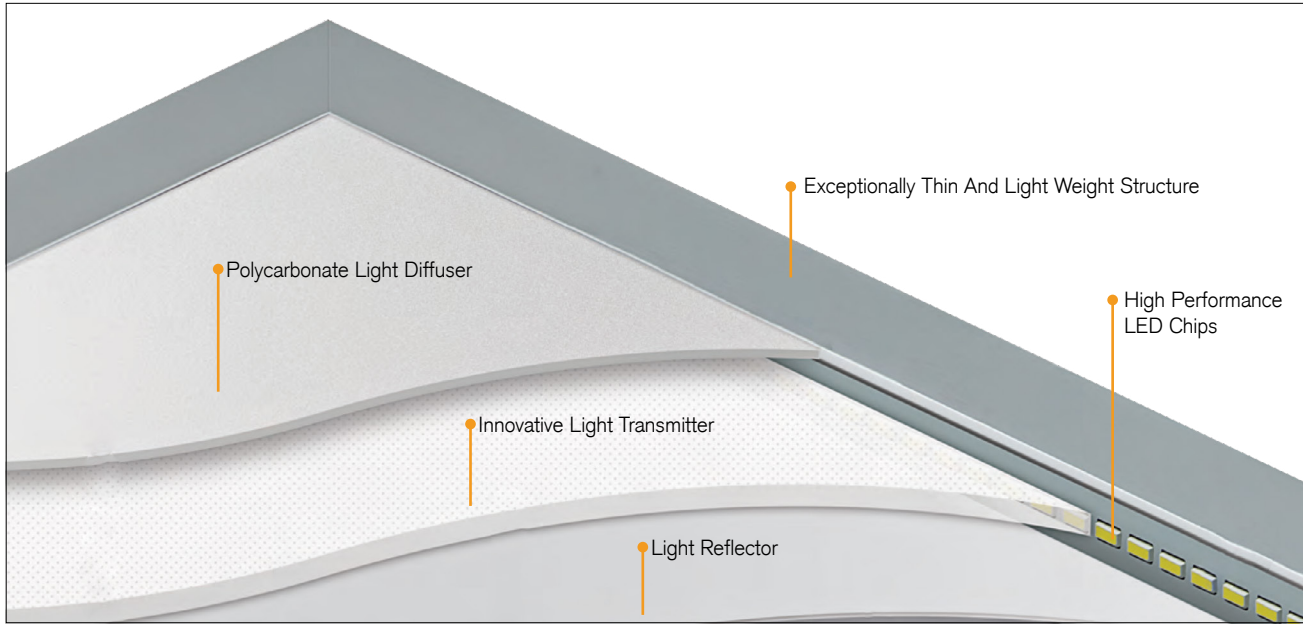
**Projected LED Maintenance**

| Operating Hours          | 0                                 | 25,000 | 50,000 | 75,000 | 100,000 |
|--------------------------|-----------------------------------|--------|--------|--------|---------|
| Lumen Maintenance Factor | 25°C (77°F) Ambient Outdoor Temp  |        |        |        |         |
|                          | 1                                 | 0.92   | 0.84   | 0.78   | 0.71    |
|                          | 45°C (113°F) Ambient Outdoor Temp |        |        |        |         |
|                          | 1                                 | 0.92   | 0.83   | 0.77   | 0.70    |

**Surface Mount Kit (SMK) Dimensions**



Panel Detail



EM Option

Philips Bodine BSL17C-C2

Specifications:

- ETL Listed
- For Field or Factory Installation (Indoor and Damp)

- UL Component Recognized
- For Factory Installation (Indoor and Damp)

- Illumination Time
- 90 Minutes

- Full Warranty
- 5 Years (NOT pro-rata)

- Universal Input Voltage
- 120-277 VAC, 60 Hz

- AC Input Current
- 45 mA

- AC Input Power Rating
- 2.75 W

- Output Voltage
- 15.0 - 50.0 VDC

- Output Power
- 7.0 W (Maximum),

- Test Switch/Charging Indicator Light
- 2 W - ITS (2-Wire illuminated test switch)

- Battery
- High-Temperature, Maintenance-Free
  - Nickel-Cadmium Battery
  - 7- to 10-Year Life Expectancy

- Battery Charging Current
- 180 mA

- Recharge Time
- 24 Hours

- Temperature Rating (Ambient)
- Ambient : 0°C to +50°C (32°F to 122°F)
  - Case: Tc (max): 65°C

- Dimensions
- 12.0" x 2.4" x 1.5" (304 mm x 60 mm x 38 mm)
  - Mounting Center 11.5" (292 mm)

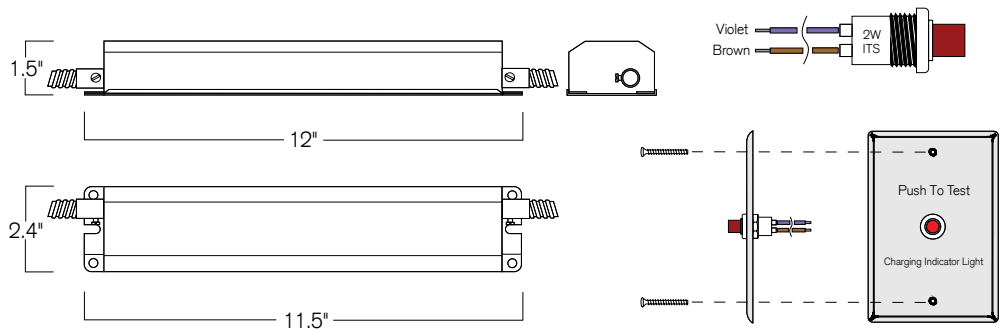
- Weight
- 4.3 lbs. (1.95 kg)

Benefits

- Listed for field installation - UL 924 and CSA C22.2 No. 141
- Emergency Lighting Compliant
- Class 2 output - UL 1310 Certified, CSA 22.2 No 223-M91 compliant
- Controlled power for predictable discharge
- 15 - 50 VDC for wide range of LED loads
- Universal input (120 through 277 VAC, 50/60 Hz)
- RoHS Compliant

Dimensions

12.0" x 2.4" x 1.5" (mounting center - 11.5")



A Test/Monitor Plate with an illuminated test switch/charging indicator light is provided.

**Operation**

When AC power fails, the BSL17xxxx immediately switches to the emergency mode, operating the LEDs at a reduced lumen output for a minimum of 90 minutes. When AC power is restored, the emergency driver automatically returns to the charging mode.

**Installation**

The BSL17xxxx does not affect normal fixture operation and may be used with either a switched or unswitched fixture. If a switched ? fixture is used, an unstitched hot lead must be connected to the emergency driver. The emergency driver must be fed from the same branch circuit as the AC driver. This series may be installed inside (BSL17-C2 only) or on top of (both models) the fixture. Installation is not recommended with ? fixture where the ambient temperature may fall below 0° C.

**Emergency Illumination**

The BSL17xxxx operates an LED load of up to 7.0 Watts.

**EM Lumen Chart**

| Size  | Nominal Wattage | EM Pack Wattage | EM Pack Lumens |
|-------|-----------------|-----------------|----------------|
| 1 x 4 | 20              | 7               | 740            |
|       | 30              | 7               | 740            |
|       | 40              | 7               | 740            |
| 2 x 2 | 20              | 7               | 740            |
|       | 30              | 7               | 740            |
|       | 40              | 7               | 740            |
| 2 x 4 | 20              | 7               | 740            |
|       | 30              | 7               | 740            |
|       | 40              | 7               | 740            |