

PROJECT NAME

CATALOG NO.

TYPE

DATE

NOTE

## BACKLIT LED FLAT PANEL

## BFPL Series

Panels and Troffers

### DESCRIPTION

The Alphalite Backlit LED Flat Panel combines the benefits of long life, controllability, and energy savings with elegant design and superior quality of light. The BFPL luminaires optimize LED optics and electronics to deliver energy savings and high performance.

### APPLICATION

Indoor general/ambient illumination. Idea for offices, schools, retail, and other architectural spaces that demand energy demand reduction and high quality light.



### SPECIFICATION FEATURES

#### Construction

Rugged construction: solid high quality 23 gauge steel housing and aluminum frame with great heat dissipation and low light degradation. Rated as vibration and impact resistance. With PMMA wide beam angle optic and high transmittance PS diffuser, uniformity of BFPL luminaires reach up to 85%. Housing and optics maintain damp location rating with all internal components.

#### Electrical

Luminaire utilizes long life, high efficacy LEDs and a highly efficient, reliable and flicker-free LED driver. 120V-277V input voltage for increased versatility. 0-10V continuous dimming comes standard. Ideal when used in conjunction with controls and sensors.

#### Mounting

Installs recessed with T-bar grid.

#### Finish

Highly reflective powder coat finish. Baked white matte paint, applied after fabrication.

#### Optics

Uniformity light achieved by delivering a comfortable mix of light to working and surrounding surfaces, creating balanced illumination throughout the environment. Occupants can realize a productive and comfortable atmosphere through enhanced light quality and distribution.

#### Certifications / Regulatory

UL/cUL listed. All components used have UL approval. UL Class 2. Power supply: SCP, OTP, OVP protection, FCC Part 15 Class B, UL8750 Class 2. IC rated. DLC Premium listed.

#### Warranty

7-year limited warranty. See complete warranty terms for details.

### Quick Ship Product

BFPL-22A/8A  
BFPL-24A/8A  
BFPL-14A/8A

## ORDERING INFORMATION

Sample Number: BFPL-24A/8A

BFPL	24	H	8	A	(Blank)	(Blank)
<b>Series</b> BFPL - Backlit LED Flat Panel	<b>Form Factor</b> 22 - 2'x2' 24 - 2'x4' 14 - 1'x4'	<b>Lumen Package</b> LA - Low Wattage Adjustable Wattage A - Adjustable Wattage HA - High Lumen Adjustable Wattage *See energy data for details	<b>CRI</b> 8 - 82+ CRI	<b>CCT</b> A - Adjustable CCT	<b>Input Voltage</b> (Blank) - 120V-277V	<b>Dimming</b> (Blank) - 0-10V Continuous Dimming

### Options

#### Accessories

FLK - Flange Kit for Drywall  
SMK - Surface Mount Kit  
BFPL-SACC - Suspension Kit

#### Controls

12V-MMS - Integrated 12V step dimming microwave motion sensor  
\* For 2x2 and 2x4 only\*  
SMC - Smart Control System

#### Emergency Backup

(Lumen will maintain over the 90-minute duration)  
EM700 - 700lm  
EM1400 - 1400lm  
EM2000 - 2000lm

#### Assembly in USA

BAA - assembly in USA

SUMMARY

Input Voltage	120V-277V
Input Power	See energy data for details
Power Factor	> 0.95
THD (Max.)	20%
Efficacy	> 125 LPW
Delivered Lumens	See energy data for details
Controls/ Dimming	Full Range 0-10V dimming standard
Dimming Range	0-10V Continuous (10-100%)
CRI	> 83
CCT	3500K, 4000K, 5000K
Operating Temp.	-20 ~ +55 °C
Rated Life	70,000 hours

ENERGY PERFORMANCE DATA

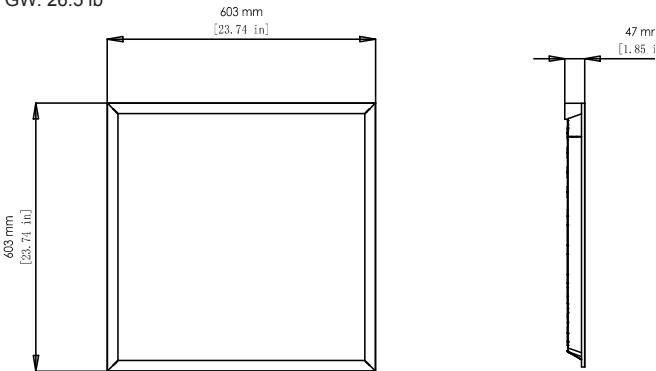
Form Factor	Part No.	Rated Wattage (W)	Tested Wattage (W)	Delivered Lumens (lm)	Efficacy (lm/W)
2'x2'	BFPL-22A/8A	29/24/19/15	29/24/19/15	3625/3000/2375/1875	125
2'x4'	BFPL-24LA/8A	29/24/19/15	29/24/19/15	3625/3000/2375/1875	125
	BFPL-24A/8A	49/39/34/29	49/39/34/29	6125/4875/4250/3625	130
	BFPL-24HA/8A	60/50/40/30	60/50/40/30	7500/6250/5000/3750	125
1'x4'	BFPL-14A/8A	29/24/19/15	29/24/19/15	3625/3000/2375/1875	125

PHYSICAL PARAMETERS

DIMENSION

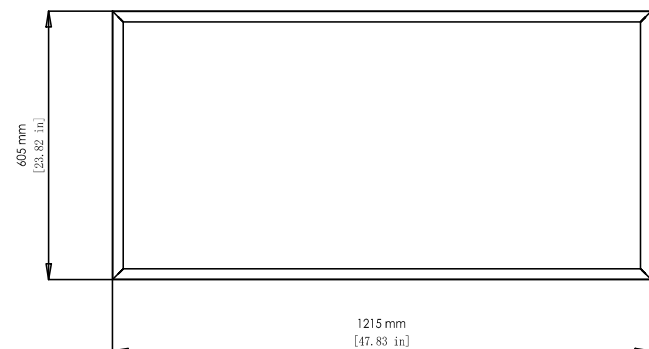
BFPL-22

NW: 22.0 lb  
GW: 26.5 lb



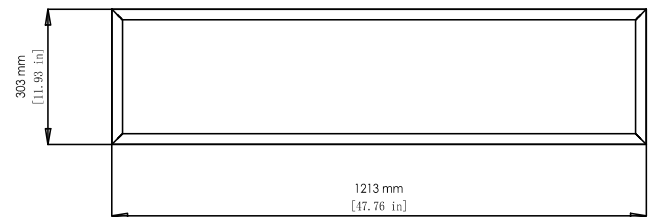
BFPL-24

NW: 40.8 lb  
GW: 48.5 lb

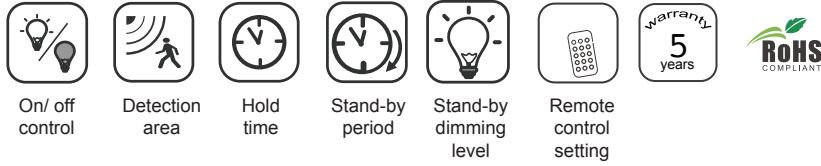


BFPL-14

NW: 22.0 lb  
GW: 26.5 lb



DC INPUT REMOTE CONTROL

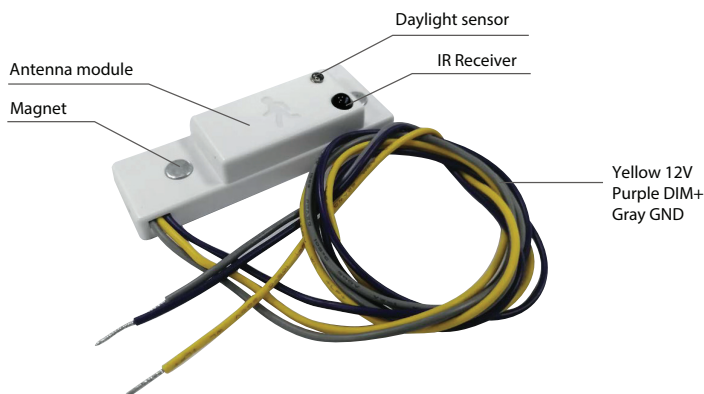


TECHNICAL DATA

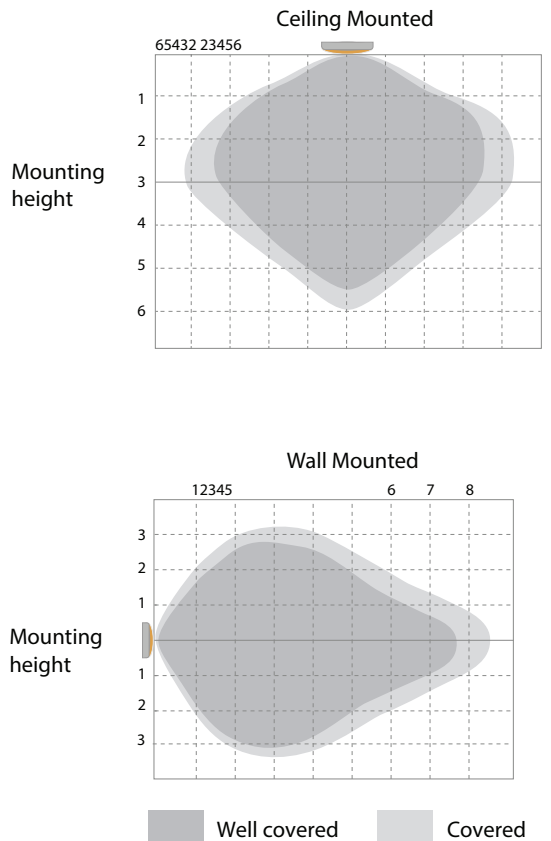
Operating voltage	8-15V DC (supply current> 50mA)
Operating current	<30mA
Output	DIM / 1-10V
Stand-by power	<0.5W
Control line	Cable length 500mm , Yellow 12V, Purple DIM+, Gray GND
Detection area	100%/75%/50%/25%
Hold-time	5s/30s/1min/3 min/5min/10min/20min/30min
Daylight threshold	2lux /0lux/30lux/50lux/80lux/120lux/200Lux/250Lux/300Lux/400Lux/Disable
Stand-by period	0s/10s/30s/1min/5min/10min/30min/60min/+∞
Stand-by dimming level	10%/20%/30%/50%
Microwave frequency	5.8GHz±75MHz
Microwave power	<0.3mW
Mounting height	≤2.5m-5m(Max) (ceiling mounted)
Detection range	DxH. ø10mx4m (ceiling mounted)
Detection angle	360°(ceiling mounted); <150° (Wall Mounted)
Operation temperature	-40°C~+80°C
Size	66*20.5*12.1mm
Warranty	5 years

Note:  
 1. Different applications and places will make different detection distance, our result is just for your information.  
 2. Factory Default Setting: Detection area 100%/ Hold time 3 mins / Daylight Threshold Disable / Stand-by period 30 mins / Stand-by dimming level 50%

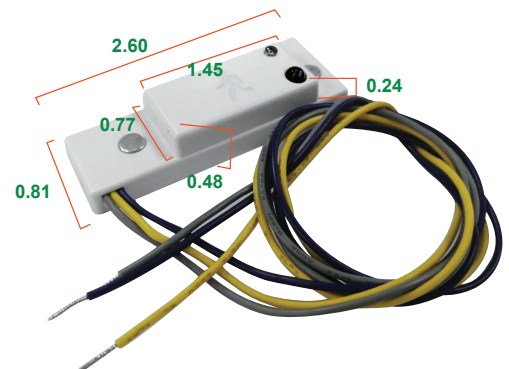
MECHANICAL STRUCTURE



DETECTION COVERAGE (UNIT:m)



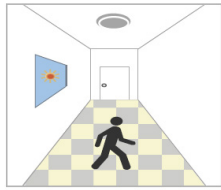
DETECTION COVERAGE (UNIT:Inches)



APPLICATION

1. Automatically ON/OFF function:

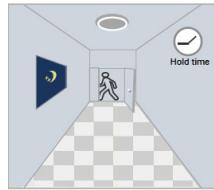
The Stand-by period is set to “0s”, Daylight threshold is set to “2Lux/10Lux/30Lux/50Lux/80Lux/120Lux/200Lux/250Lux/300Lux/400Lux”. Light on when detect movement and off after people leave at night. Applications: Corridor, Staircase.



With sufficient daylight, even when motion detected, light remains OFF.



With insufficient daylight, when motion detected, light ON.



After the last detection and the present hold timelapsed, light OFF.

2. No daylight function

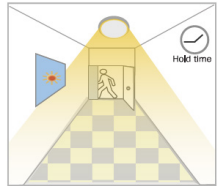
The Daylight threshold is set to “Disable”.

Stand-by period is set to +∞, The light will always remain ON.

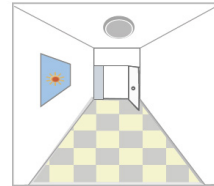
Light on when detect movement, After people leave, Light off after stand-by period.



When motion is detected, the sensor will switch on the light to 100% brightness.



After people leave the detection area, light remains 100% brightness within hold time.



After the last detection and the present hold time elapsed, light OFF.

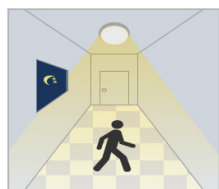
3. Function Demo - Dimmable control/Corridor function

The Stand-by period is set to “10s/30s/1min/5min/10min/30min”, Daylight threshold is set to “2Lux/10Lux/30Lux/50Lux/80Lux/120Lux/200Lux/250Lux/300Lux/400Lux”.

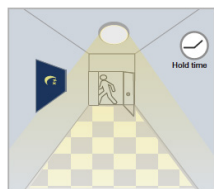
Light on when detect movement and off after people leave at night. Applications: Corridor, Staircase.



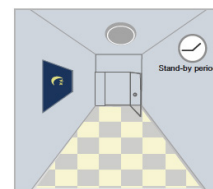
With sufficient daylight, even when motion detected, light remains OFF.



With insufficient daylight, when motion detected, light ON.



After last detection, the light will be dimmed down to the stand-by dimming level (10%, 30%) after holdtime.



After the stand-by period, light OFF.

Attention

1. Please read the instructions carefully before using this product and keep it well for all users to read at any time.
2. The sensor should be installed by qualified electrician and ensure power is off before the installation.
3. We reserve the right to modify any incorrect text, image and necessary technical parameters.
4. Any unauthorized modification is forbidden, otherwise all guarantees will be immediately invalid.

User Notes

1. Microwave can penetrate walls or glass thinner than 20cm and attenuate if thicker than 20cm.
2. The driver voltage shall be stable and float within 10%.
3. Detection area will be affected by speed of motion, mounting height and movement volume.
4. Conduct test on sunny days without the lampshade which will affect the tested lux value

Application Environment

1. Suitable for indoor installation to avoid false triggering due to external factors such as rain, wind or tree swing.
2. Shall not be installed in the place with all four metal shelters and small space (such as galvanized-iron roof).
3. Shall note be mounted installation, so as to avoid false trigger caused by the lamp itself shaking.
4. Shall not be installed next to large operating machines such as ventilator/ceiling fan to avoid false triggering caused by machine vibration.