AimLite | **wave**

PSM
SMART LED BACKLIT PANEL
INTEGRATED BLUETOOTH® MESH TECHNOLOGY

The PSM series combines LED backlit panel with smart technology. It offers high performance and uniformed lighting, with a smooth color temperature and lumen output tuning. This panel is a perfect choice for various lighting demands in different commercial applications. Featuring integrated Bluetooth®Mesh technology, the PSM series seamlessly connects with the Wave control system and mobile app. Wave is easy to use and hassle-free, the ideal solution for integrating controls into a lighting system.

FEATURES & SPECIFICATIONS

CONSTRUCTION

Physical Characteristics
- White aluminum frame
- PMMA micro-optics for uniform light distribution

Mounting
- Recessed, suspended or surface

PERFORMANCE DATA
- Tunable white technology ranging from 3 000 K to 5 000 K
- Power selectable up to 40 W (1'x4' & 2'x2') & 50 W (2'x4')
- 80+ CRI
- Electrical ratings: 120-347 V
- Estimated life of over 120 000 hours to L70
- Wireless Bluetooth® Dimming (1%-100%)
- 2 kV surge protection
- Operating temperature: -20 °C to 45 °C (-4 °F to 113 °F)

BLUETOOTH® MESH CONTROL
- Integrated Bluetooth® Mesh technology allows for controllable features via the AimLite Wave App or by using the smart wall switches (sold separately).
  Controllable features include:
  - Dimming
  - Tune to desired color temperature - Tunable White
  - Sensor programming (Motion and daylight harvesting)
  - Create groups, scenes, schedules and more

COMPLIANCES
- cULus listed for damp location
- IC rated
- DLC Premium
- Meets requirement of ICES-005 issue 5 Class A for use in commercial applications

OVERVIEW			
LIGHT SOURCE	LED	**EFFICACY (LM/W)**	125-130
WATTS (W)	UP TO 40 W (1'X4' & 2'X2') & 50 W (2'X4')	**COLOR TEMPERATURE (K)**	TUNABLE WHITE - 3 000 K TO 5 000 K
LUMEN OUTPUT (LM)	5 000-6 500	**CRI**	80+

5 YEAR WARRANTY · **Bluetooth**® · TUNABLE WHITE · POWER SELECTABLE · QUICKSHIP · LED · DIMMABLE · DAMP LOCATION · ICES 005 · FC · UL CERTIFIED · DLC LISTED PREMIUM

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.

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.

QUICK SHIP AND TECHNICAL SPECIFICATION TABLE

PART NUMBER	DLC UNIQUE ID	WATTS [W]	VOLTS [V AC]	COLOR TEMP. [K][1]	LUMEN OUTPUT [LM][2]	EFFICACY [LM/W]	CRI	LIFE L70 [HRS][3]	TESTED HOURS LM-80 [HRS][3]	DIMMING [YES/NO]	POWER FACTOR	THD [%]	MASTER CASE QTY
1'x4'													
PSM-1P40P-32/TWBT	S-YHDBTZ	40	120-347	3 000 - 5 000	5 000	125	80+	120 000	9 000	YES	0.90	20	2
2'x2'													
PSM-2P40P-32/TWBT	S-C8GM3N	40	120-347	3 000 - 5 000	5 000	125	80+	120 000	9 000	YES	0.90	20	2
2'x4'													
PSM-4P50P-32/TWBT	S-G73J9S	50	120-347	3 000 - 5 000	6 250	125	80+	120 000	9 000	YES	0.90	20	2

[1] Typical color temperature range: +/- 5 %.
[2] Lumen values are derived from DLC reported data at 3 000 K.
  Please refer to the LUMEN SPECIFICATION TABLE for more details on other color temperatures.
[3] Life hours are derived from IESNA LM-80 testing report and projected per IESNA TM-21 extrapolations.

LUMEN SPECIFICATION TABLE

PART NUMBER	WATTS [W]	3 000 K		3 500 K		4 000 K		5 000 K	
		LUMEN OUTPUT [LM]	EFFICACY [LM/W]	LUMEN OUTPUT [LM]	EFFICACY [LM/W]	LUMEN OUTPUT [LM]	EFFICACY [LM/W]	LUMEN OUTPUT [LM]	EFFICACY [LM/W]
PSM-1P40P-32/TWBT	40	5 000	125	5 120	128	5 200	130	5 200	130
PSM-2P40P-32/TWBT	40	5 000	125	5 000	125	5 000	125	5 000	125
PSM-4P50P-32/TWBT	50	6 250	125	6 500	130	6 500	130	6 250	125

DEFAULT PROGRAMMING
PSM-1P40P-32/TWBT: 40 W / 5 000 K
PSM-2P40P-32/TWBT: 40 W / 5 000 K
PSM-4P50P-32/TWBT: 50 W / 5 000 K

ACCESSORIES (ORDER SEPARATELY)

PART NUMBER	TYPE	COMPATIBLE WITH
OSI-PIR108E	PLUG-IN PIR MOTION SENSOR	1'x4', 2'x2' & 2'x4'
PF-DWK-1X4-A	DRYWALL KIT	1'x4'
PF-DWK-2X2-A	DRYWALL KIT	2'x2'
PF-DWK-2X4-A	DRYWALL KIT	2'x4'
CAS973-1	SURFACE MOUNT KIT	1'x4'
CAS973-2	SURFACE MOUNT KIT	2'x2'
CAS973-3	SURFACE MOUNT KIT	2'x4'
KIT-SUS-CH	SUSPENSION KIT	1'x4', 2'x2' & 2'x4'

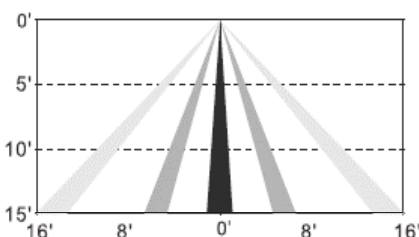## PLUG-IN PIR MOTION SENSOR (ORDER SEPARATELY)

SENSOR SETTINGS OPTIONS[1]

PARAMETER	SETTINGS OPTIONS
1ST TIME DELAY	1 MIN - 59 MIN, ∞
2ND TIME DELAY	1 MIN - 59 MIN, ∞
DIM LEVEL	1 % - 100 %

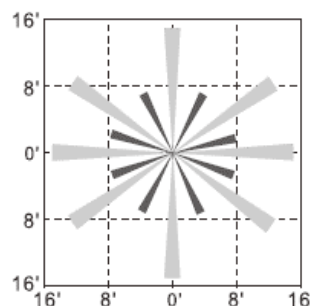[1] For detailed sensor programming and settings information, please refer to the Wave App Instruction Guide.

SENSOR MOUNTING AND DETECTION RANGE

MOUNTING HEIGHT	DETECTION RANGE
15 FT (4.6 M) MAX.	32 FT (9.75 M) MAX.

SIDE VIEW

TOP VIEW

PLUG-IN PIR MOTION SENSOR INSTALLATION

| STEP 1 | STEP 2 | STEP 3 | STEP 4 |
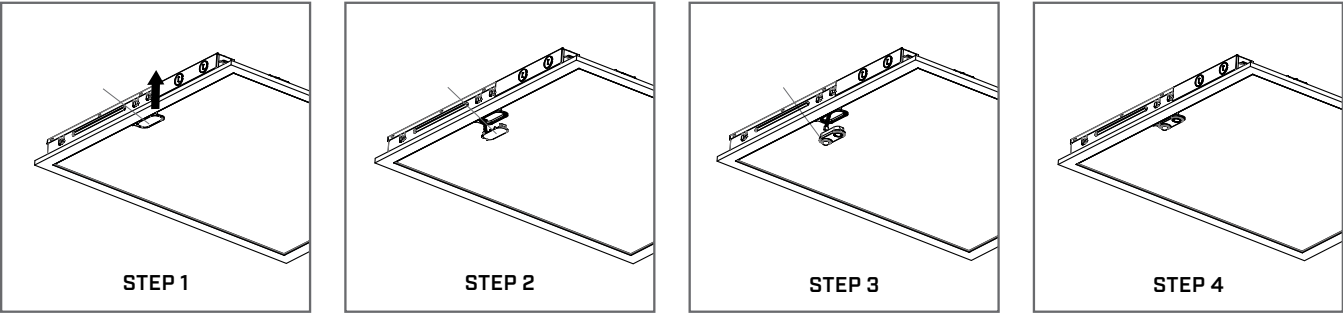
DIMENSIONS AND WEIGHTS

1'x4'

47 3/4" (121.3 cm)   1 5/8" (4.2 cm)

11 7/8" (30.1 cm)

2'x2'

23 3/4" (60.3 cm)   1 5/8" (4.2 cm)

23 3/4" (60.3 cm)

2'x4'

47 3/4" (121.3 cm)   1 5/8" (4.2 cm)

23 3/4" (60.3 cm)
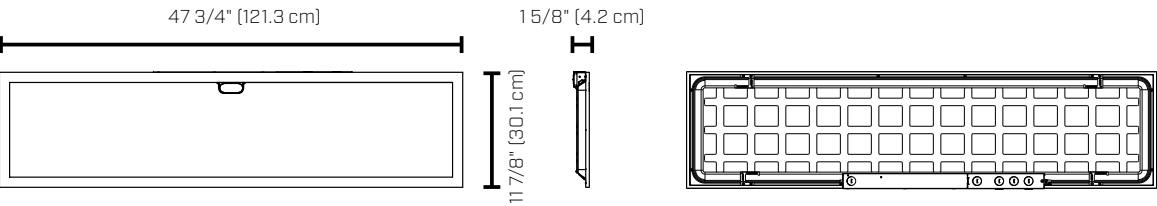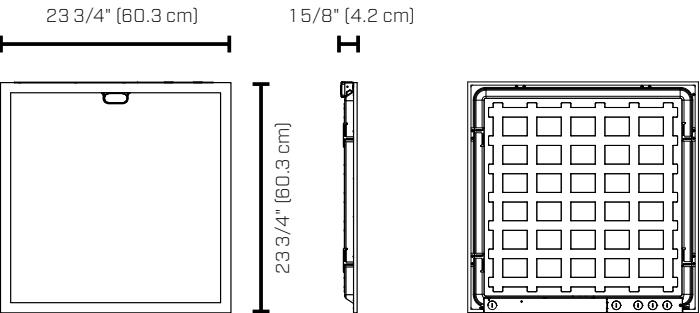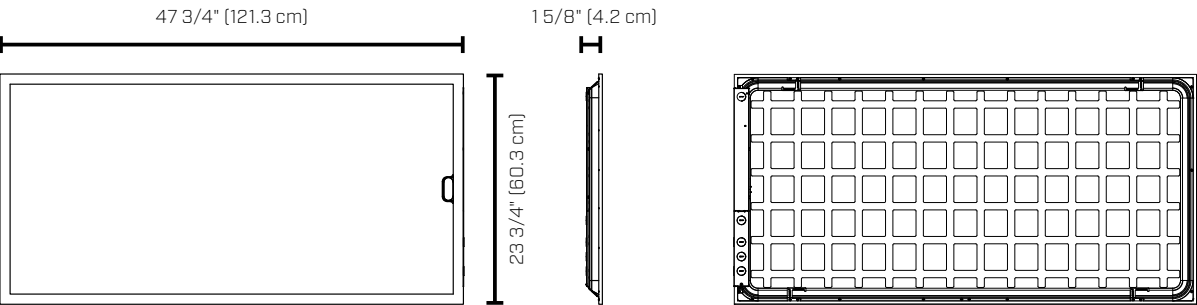
	1'x4'	2'x2'	2'x4'
Net weight (lbs)	4.5	5.8	9.3

WAVE CONTROL SYSTEM FEATURES

Wave is Aimlite's smart brand of lighting and emergency lighting. Integrating the latest in Bluetooth® Mesh technology, Wave products allow for customizable features that can be adjusted at your fingertips using a smartphone or other compatible devices. This system is easy to use, versatile and futureproof! Please see below for some of the key features[1] of the Wave control system:

LIGHTS
Instantly control the color temperature, wattage, lumen output and dimming.

GROUPS
Easily group luminaires together and control them as a single unit.

SCENES
Customize your lighting through scenes and create different atmospheres for occasions and activities.

SCHEDULES
Set schedules to specify dates, times and recurrence patterns for changing the settings of your lighting.

SENSOR
Adjust the PIR motion sensor and daylight harvesting settings.
* PIR motion sensor accessory sold separately

Lights
- Add
- Name or Rename
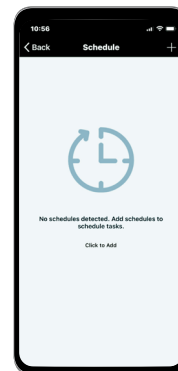- Dimming and Color Tuning
- Delete
- Sensor Settings

Groups
- Create
- Rename
- Delete
- Add or Remove Lights
- Adjust Group Linkage Level
- Turn On/Off
- Adjust Group Dimming
- Activate Auto Mode

Scenes
- Create
- Edit
- Delete

Schedules
- Creating
- Associate a Schedule To Lights, Groups, or Scenes
- Set a Repeating
- Set Fade Time
- Delete
- Enable Or Disable

Download on the
App Store

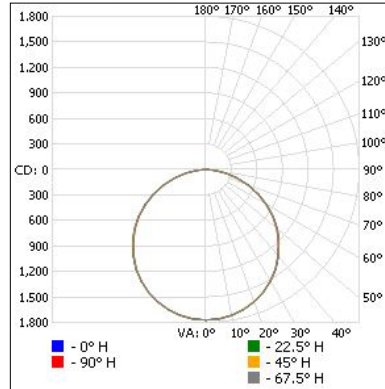GET IT ON
Google Play

Download our App
Instruction Guide

PHOTOMETRIC DATA[1]

PSM-1P40P-32/TWBT • 40 W • 4 000 K • 5 260.3 LM

POLAR CANDELA DISTRIBUTION

- 0° H
- 90° H
- 22.5° H
- 45° H
- 67.5° H

ZONAL LUMEN SUMMARY

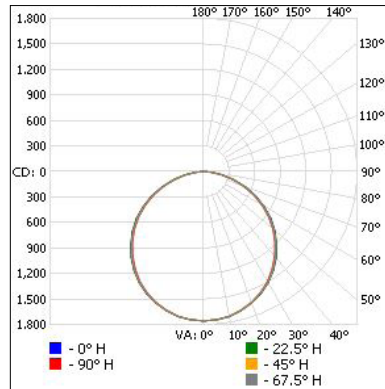| ZONE	LUMENS	% FIXTURE
0-30	1 381.2	26.3
0-40	2 272.0	43.2
0-60	4 061.8	77.2
60-90	1 182.2	22.5
70-100	521.9	9.9
90-120	5.6	0.1
0-90	5 244.0	99.7
90-180	16.3	0.3
0-180	5 260.3	100

ILLUMINANCE AT A DISTANCE

CENTER BEAM FC			BEAM WIDTH	
2.0'	442.4		6.4'	6.3'
4.0'	110.6		12.7'	12.6'
6.0'	49.2		19.1'	18.8'
8.0'	27.6		25.5'	25.1'
10.0'	17.1		31.8'	31.4'

■ Vert. Spread: 115.7° ■ Hor. Spread: 115.0°

PSM-2P40P-32/TWBT • 40 W • 4 000 K • 5 169.7 LM

POLAR CANDELA DISTRIBUTION

- 0° H
- 90° H
- 22.5° H
- 45° H
- 67.5° H

ZONAL LUMEN SUMMARY

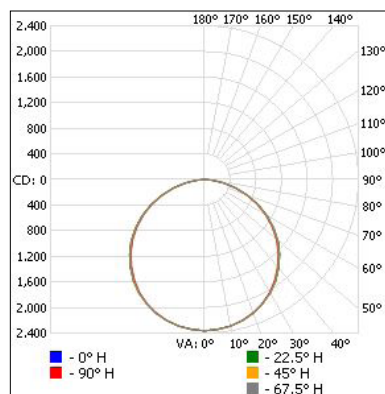| ZONE	LUMENS	% FIXTURE
0-30	1 370.6	26.5
0-40	2 253.5	43.6
0-60	4 020.0	77.8
60-90	1 134.3	21.9
70-100	488.5	9.5
90-120	5.2	0.1
0-90	5 154.3	99.7
90-180	15.3	0.3
0-180	5 169.7	100

ILLUMINANCE AT A DISTANCE

CENTER BEAM FC			BEAM WIDTH	
2.0'	439.0		6.4'	6.1'
4.0'	109.7		12.8'	12.2'
6.0'	48.8		19.2'	18.4'
8.0'	27.4		25.6'	24.5'
10.0'	17.6		32.0'	30.6'

■ Vert. Spread: 115.9° ■ Hor. Spread: 113.7°

PSM-4P50P-32/TWBT • 50 W • 4 000 K • 7 103.9 LM

POLAR CANDELA DISTRIBUTION

- 0° H
- 90° H
- 22.5° H
- 45° H
- 67.5° H

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	1 852.2	26.1
0-40	3 056.1	431
0-60	5 489.2	77.3
60-90	1 593.5	22.4
70-100	697.1	9.8
90-120	9.0	0.1
0-90	7 082.6	99.7
90-180	21.2	0.3
0-180	7 103.9	100

ILLUMINANCE AT A DISTANCE

CENTER BEAM FC			BEAM WIDTH	
2.0'	590.5		6.5'	6.3'
4.0'	147.6		13.1'	12.7'
6.0'	65.6		19.6'	19.0'
8.0'	36.9		26.2'	25.3'
10.0'	23.6		32.7'	31.7'

■ Vert. Spread: 117.1° ■ Hor. Spread: 115.5°

[1] Complete IES files available on our website.