



CUSTOMER NAME _____

Project Name _____

Date _____ Type _____

Catalog Number _____

PSF Series

Striplight

The **Lumination® PSF Series** is an LED contractor grade strip fixture ideal for commercial or industrial applications. Designed for maximum flexibility with field selectable lumens and CCT. Mounting is simple and designed with the installer in mind by providing a tool-less snap fit light engine/lens module that is secured to the channel body with safety cables designed for a single person installation. PSF offers a five year design life with a non-glare diffuser for those with first cost needs. PSF is suitable for indoor general lighting on both new construction and retrofit solutions.

Construction

Housing:	Die-formed heavy-gauge steel.
Lens:	UV-Stabalized Polycarbonate
Paint:	White powder coat paint
Weight:	4ft: 3.3 lbs (1.5 kg) 8ft: 6.4 lbs (3 kg)
Optical Assembly:	Diffuse UV-stabilized polycarbonate lens

Optical System

Lumens:	4400–10000
Distribution:	120°, diffused lens
Efficacy:	Up to 138 LPW
CCT*:	3500K, 4000K, 5000K Selectable
CRI:	80+

Electrical

Input Voltage:	Universal 120–347V
Input Frequency:	50/60 Hz
Power Factor (PF)*:	>0.90
Total Harmonic Distortion (THD)*:	< 10%
EMI:	FCC CFR Title 47 Part 15, Class B
Surge Protection:	2.5KV driver surge protection
LED Driver Type:	Class 2

* PF and THD may vary with options

Controls

Sensors: Optional field installable microwave sensor

Ambient Temperature

TYPE	TEMPERATURE RATE
OPERATING TEMPERATURE	-10°C to +25°C (-14°F to 77°F)
STORAGE TEMPERATURE	-40°C to +70°C (-40°F to 158°F)

Lumen Maintenance

LXX(10K) @ Hours 100,000 HR
L90 / 50,000 hrs

Design Life & Warranty

- **Reliability Testing:** Components and/or systems evaluation at extreme conditions and monitored during production.
- Please refer to the DLC QPL website for the latest and most complete information: <http://www.designlights.org/QPL>
- UL 1598 Suitable for Damp Locations
- Damp Location Standard
- **Current's Limited 5-year Warranty:**
See Product Warranties section at led.com/resources



Stock Options

ORDERING SKU	CAT LOGIC	UPC	DESCRIPTION	SETTING	WATTAGE	Lumens			LPW		
						3500K	4000K	5000K	3500K	4000K	5000K
93315751	PSF204TFS1D	840141433875	4' LED Striplight 4500/ 4950 /5400 Selectable Lumens 3500/ 4000 /5000K Selectable CCT 120-347V, 0-10V dimming	LOW	32.5	4400	4500	4400	135	138	135
				MED	36	4850	4950	4850	135	138	135
				HIGH	41	5300	5400	5300	129	132	129
93315752	PSF208TFS1D	840141433882	8' LED Striplight 8300/ 9000 /10000 Selectable Lumens 3500/ 4000 /5000K Selectable CCT 120-347V, 0-10V dimming	LOW	65	8000	8300	8000	123	128	123
				MED	72	8800	9000	8800	122	125	122
				HIGH	81	9600	10000	9600	119	123	119

NOTE: Bold indicates default settings.

Made To Order Options

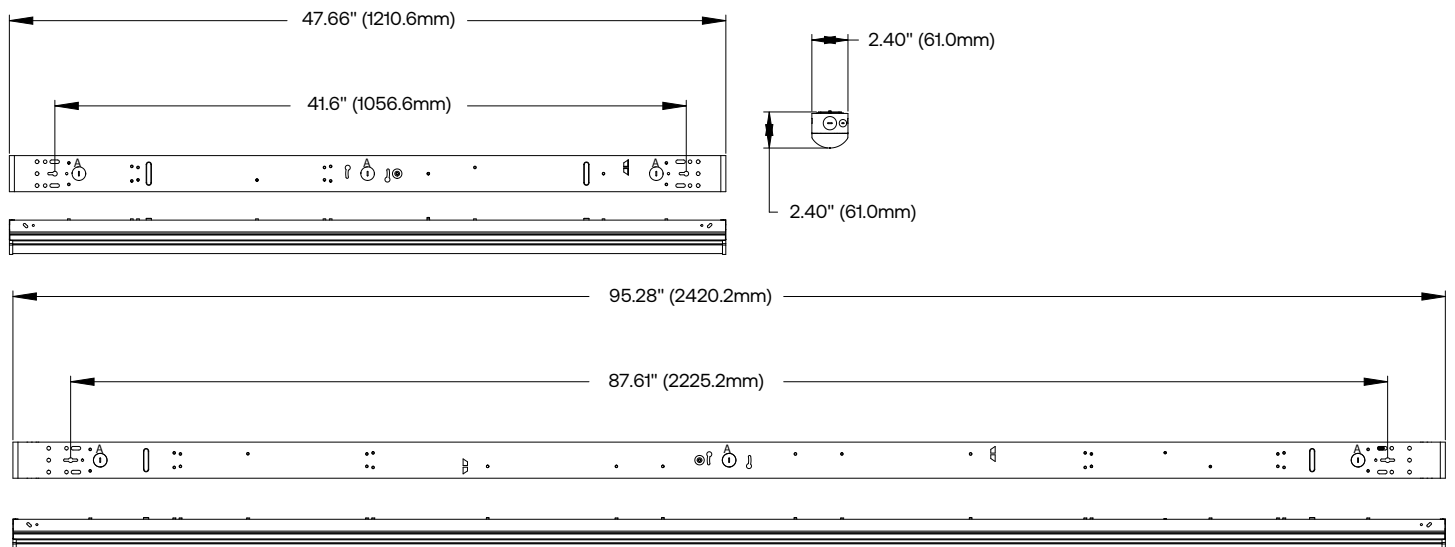
ORDERING SKU	CAT LOGIC	DESCRIPTION
93323662	PSF304TFS1DELST	4' LED Striplight 4400/4850/5300 Selectable Lumens, 3500/4000/5000K Selectable CCT, 0-10V dimming, 120-347V Emergency battery pack (CEC Title 20 Compliant, Installed, Self-Test)
93323664	PSF308TFS1DELST	8' LED Striplight 8000/8800/9600 Selectable Lumens, 3500/4000/5000K Selectable CCT 0-10V dimming, 120-347V Emergency battery pack (CEC Title 20 Compliant, Installed, Self-Test)

Accessories Ordering Guide (Order Separately)

ACCESSORY	DESCRIPTION	PRODUCT ORDER CODE
Field Installable Microwave Sensor Kit	MSKIT 1	93310081
Toggle/Suspension Cable 5'	CABLE HANGER,GRIPPLE,XP2TG-5FT300MMPAIR	PRT0202
Toggle/Suspension Cable 10'	CABLE HANGER,GRIPPLE,XP2TG-10FT300MMPAIR	PRT0203
Toggle/Suspension Cable 15'	CABLE HANGER,GRIPPLE,XP2TG-15FT300MMPAIR	PRT0204

NOTES:
1: Can't be combined with ELST option.

Product Dimensions



CUSTOMER NAME

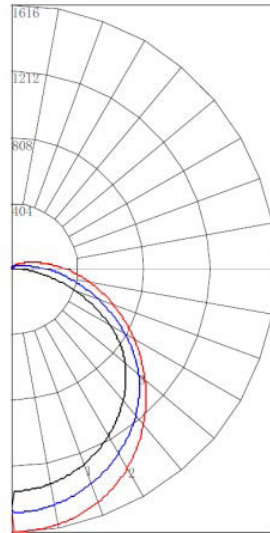
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Photometric Data

PSF Striplight
80+ CRI
41W/3500K
 5353.2 LM
 CTLED23E19535



ZONE	LUMENS	% OF FIXTURE
0-30	1162.48	21.7
0-40	1930.61	36.1
0-60	3554.02	66.4
0-90	4973.35	92.9
0-180	5353.24	100.0

Sensor Technical Data

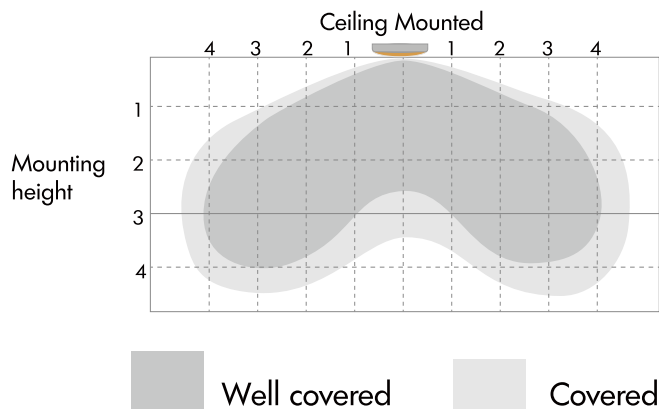
SENSOR PARAMETERS	Microwave Frequency	5.8Hz ± 75MHz
	Microwave Power	<0.3mW
	DIP Switch	
	Detection Area	50%/100%
	Hold Time	10s/1min/5min/10min
	Daylight Threshold	10lux/30Lux/50Lux/Disable
	Stand-by Period	1min/ 30min/ 60min/+∞
	Stand-by Dimming Level	10% 20% 30% 50% 100%
	Mounting Height	Max. 4m (ceiling mounted)
	Detection Range	Diameter 10* 4m (Max)
	Motion Detection	0.5~+ 1m/s
	Detection Range	150° (Wall Mounted) 360° (Ceiling Mounted)
OTHERS	Input Range	12VDC
	Voltage Range	10-15VDC
	Current	≤30mA
	Signal	DIM 0-10V
	Connection	12VDC input/ Black&White wire; DIM+/ Purple wire; DIM-/ Pink wire

NOTE:

1. The result is based on 1.65M/60kg medium-size man walking toward sensor with speed of 0.8m/s in a vacant room. The sensor is hanging at 3M height.
2. It may have different performance if the test is delivered by different people, with different speed, at different height or in different conditions.

Sensor Coverage

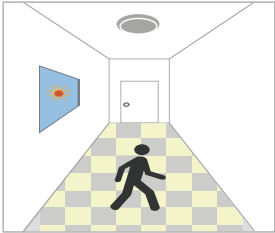
This figure indicates maximum distance at the highest mounting height with 100% sensitivity



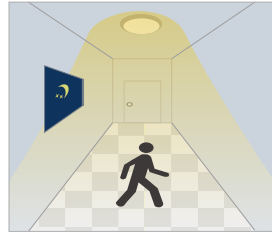
Sensor Functionality

1. AUTOMATICALLY ON/OFF FUNCTION

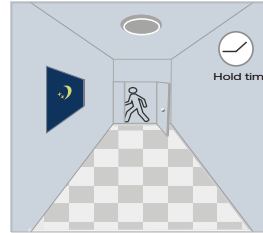
Light comes on when the sensor detects movement and off after people leave at night.
Applications: Corridors and staircases.



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



With insufficient daylight, when motion is detected, light turns ON.



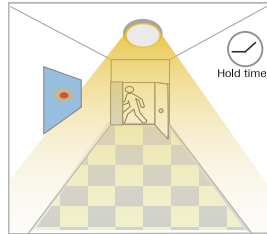
After the last detection and the present hold time is elapsed, light turns OFF.

2. NO DAYLIGHT FUNCTION

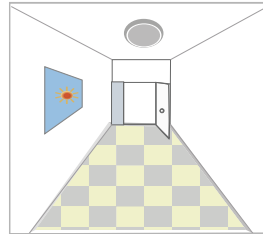
The daylight threshold is set to "Disable"
Light comes on when it detects movement. After people leave, light goes off after a stand-by period.
Applications: Dim places such as basement parking or an underpass.



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

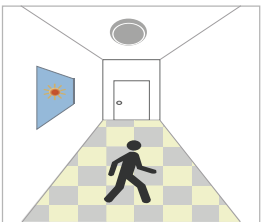


After people leave the detection area, light remains at 100% brightness within the hold time



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

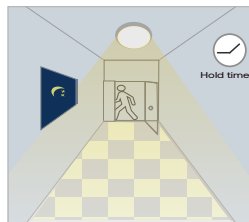
3. FUNCTION DEMO - DIMMABLE CONTROL/CORRIDOR FUNCTION



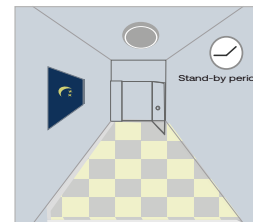
With sufficient daylight, even when motion is detected, light remains OFF.



With insufficient daylight, when motion is detected, light turns ON.



After the last detection, the light will be dimmed down to the stand-by level (10%, 20%, 30% or 50%) after holdtime



After the stand-by period, light turns OFF

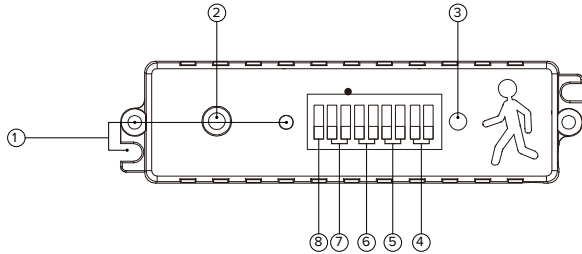
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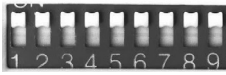
Catalog Number _____

Sensor Layout



- ① Installation Hole
- ② Antenna module
- ③ Daylight Sensor
- ④ Stand-by dimming level
- ⑤ Stand-by Period
- ⑥ Daylight Threshold
- ⑦ Hold Time
- ⑧ Detection Area

DIP Switch Setting



● Switch UP
○ Switch DOWN

Factory Default Setting: All switches UP as shown

Stand-by dimming level

●	●	10%
●	○	20%
○	●	30%
○	○	50%

The definition of low output in the standby period.

Stand-by period

●	●	0s
●	○	30s
○	●	20min
○	○	+ ∞

The period of light keeping low output before it's completely switched off. When it's preset as "∞", the light always keep at low output if no movement in the detection area and doesn't turn off

Daylight Threshold

●	●	Disable
●	○	50lux
○	●	10lux
○	○	2lux

Definition of the ambient brightness; only when the ambient brightness is lower than preset specific lux amount, -the sensor will work; when its preset as "disable", the sensor works every time it detects motion regardless of the ambient brightness

Hold-Time

●	●	5s
●	○	30s
○	●	1min
○	○	10min

The period of light keeping 100% brightness after moving objects leave the detection area.

Detection Area

●	100%
○	50%

In this area, movement will be detected and able to trigger the sensor. 100% detection area is also known as the strong sensitivity.