



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 switchable lumens and CCT, each single SKU offers 9 options that are field selectable. 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

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Ordering Information

ORDERING SKU	CAT LOGIC	DESCRIPTION	LUMINAIRE LUMENS (SWITCHABLE)	LUMINAIRE TOTAL SYSTEM WATTS	EFFICACY (LPW)
93309359	PSF204TFS1D	4' LED Striplight, 0-10V dimming	4500/4950/5300	32.5/36/41	138/138/132
93309370	PSF208TFS1D	8' LED Striplight, 0-10V dimming	8300/9000/10000	65/72/81	128/125/123

NOTE: Above values are based on the default switch setting for CCT (4000K). For detailed ratings at other CCT/wattages, please see chart below.

ACCESSORIES ORDERING GUIDE (ORDER SEPARATELY)

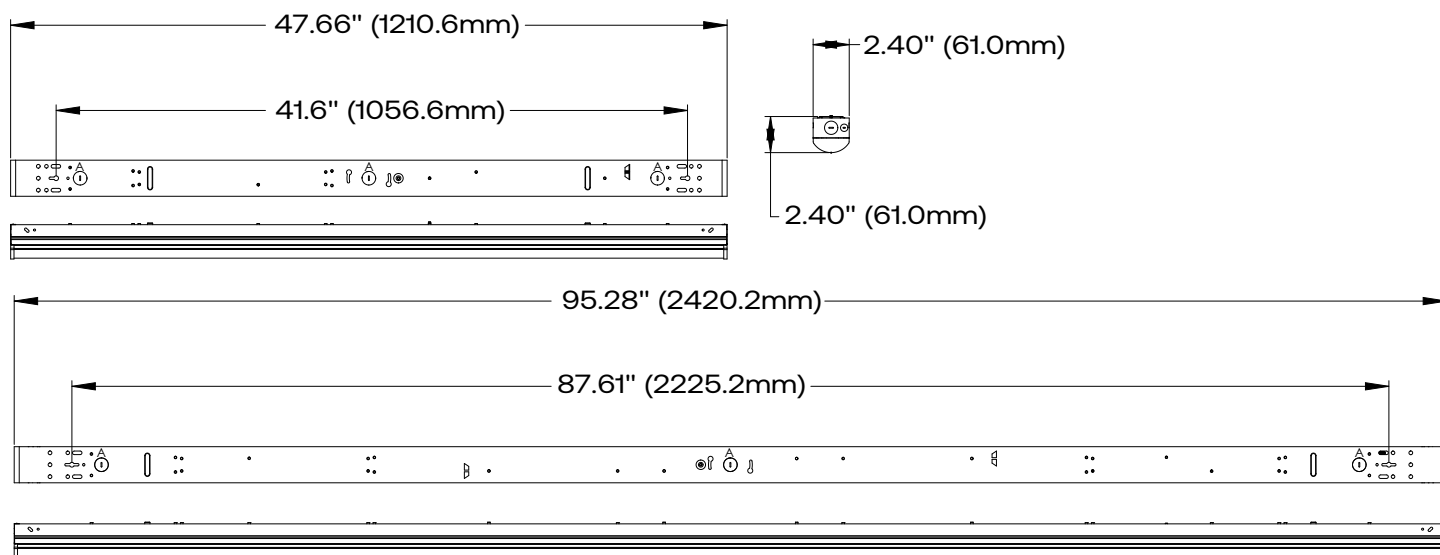
PART #	NOTES & RESTRICTIONS
MSKIT	Field Installable Microwave Sensor Kit

LPW VALUES AT ALL SETTINGS

FIXTURE TYPE	SETTING	WATTAGE	Lumens			LPW		
			3500K	4000K	5000K	3500K	4000K	5000K
PSF204	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
PSF208	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: Factory default settings: CCT at 4000K and Lumens at MED

Product Dimensions



CUSTOMER NAME

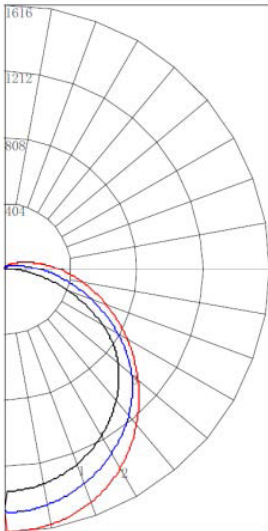
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Photometric Data

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

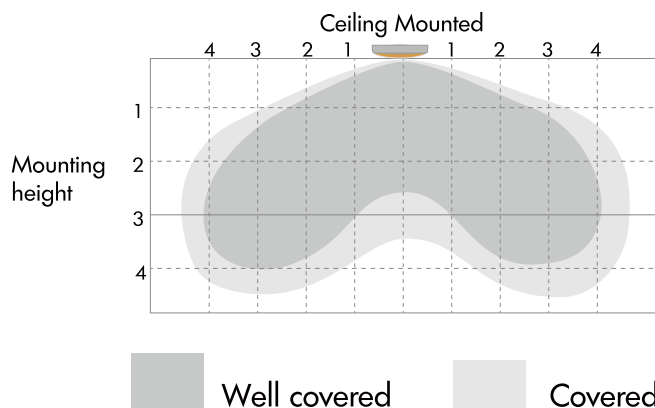
SENSOR PARAMETERS	Microwave Frequency	5.8Hz ± 75MHz
	Microwave Power	<0.3mW
	DIP Switch	
	Detection Area	50%/100%
	Hold Time	10s/1min/5min/10min
	Daylight Threshold	10lux/30Lux/50Lux/Disable
	Stand-by Period	1min/ 30min/ 60min/+∞
	Stand-by Dimming Level	10% 20% 30% 50% 100%
	Mounting Height	Max. 4m (ceiling mounted)
	Detection Range	Diameter 10* 4m (Max)
OTHERS	Motion Detection	0.5~+ 1m/s
	Detection Range	150° (Wall Mounted) 360° (Ceiling Mounted)
	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

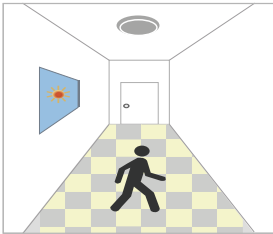
This figure indicates maximum distance at the highest mounting height with 100% sensitivity



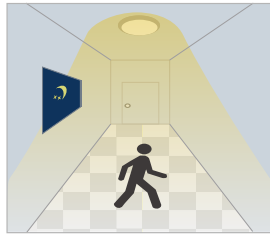
Sensor Functionality

1. AUTOMATICALLY ON/OFF FUNCTION

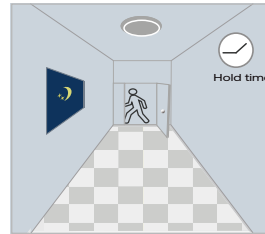
Light comes on when the sensor detects movement and off after people leave at night.
Applications: Corridors and staircases.



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



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



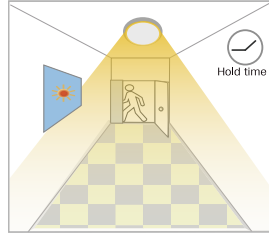
After the last detection and the present hold time is elapsed, light turns OFF.

2. NO DAYLIGHT FUNCTION

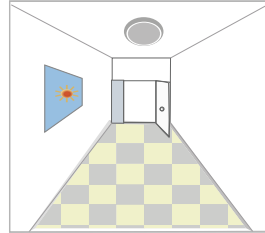
The daylight threshold is set to "Disable"
Light comes on when it detects movement. After people leave, light goes off after a stand-by period.
Applications: Dim places such as basement parking or an underpass.



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

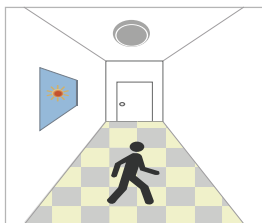


After people leave the detection area, light remains at 100% brightness within the hold time



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

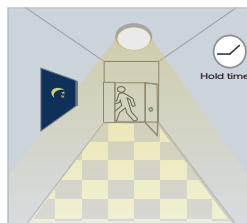
3. FUNCTION DEMO - DIMMABLE CONTROL/CORRIDOR FUNCTION



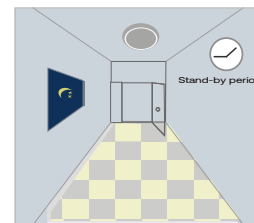
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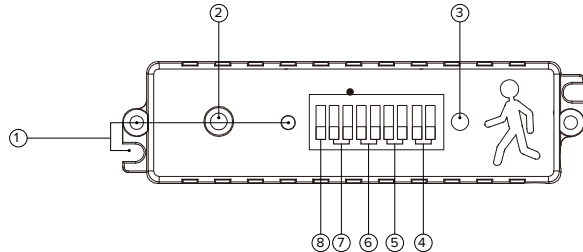


After the last detection, the light will be dimmed down to the stand-by level (10%, 20%, 30% or 50%) after holdtime



After the stand-by period, light turns OFF

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.