

PROJECT NAME _____
 CATALOG NUMBER _____
 NOTES _____



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LG-MW Series LED T8 Motion Sensor Smart Tube 18 Watt Microwave Sensor 4' LED T8 Linear Replacement Lamp Adjustable for "Time Out" and "Brightness Level" - Direct Wire

PRODUCT DESCRIPTION:

The Lumentek LG-MW Series is a stand alone LED Replacement tube with an integral Microwave Activity Sensor. Simply by-pass the ballast and it is a direct replacement for 4' T8 & T12 fluorescent lamps. The Microwave Activity Sensor is used to detect motion by sending and receiving high frequency radio waves. When a person or vehicle passes the sensor, it detects a rapid change of the signal and automatically signals the tube to turn on or increase the brightness level to 100%. Microwaves penetrate most materials (except metal) therefore they can be used behind a plastic or glass lenses. The Lumentek LED "LG-MW" Smart Tube is an economical way to control your lighting energy costs. In the occupied, full brightness mode it saves 30-40% over typical T8 fluorescent systems. Unlike fluorescent systems the 50,000 hour rated life of the LED Smart Tube is not affected by frequent switching by the sensor.



FEATURES:

- High Lumens Per Watt - Up to 100 lumens per watt.
 - High Color Rendering – >80 CRI.
 - Adjustable End Caps allow aiming of the sensor.
 - Long Life 50,000 hours operation.
 - Universal 120-277 Volt Direct Wire operation.
 - Adjustable for Time Out - from 5 seconds to 60 Minutes
 - Adjustable "No Activity" Brightness Levels – 0% (OFF), 10%, 20%, 30%, 40%
- ✓ Direct Wire – Bypass ballast and wire Line Voltage to one end and Neutral to the other.
 - ✓ Works with Shunted or Un-shunted Sockets.
 - ✓ 120 Degree Sensor Field of View

MODEL SELECTION		Example LG-T8-1200-18-PW-C-MWS-DW					
LG	T8	1200	18	PW	C	MWS	DW
FAMILY	LAMP TYPE	LENGTH	WATTAGE	CCT	LENS TYPE	SERIES	WIRING
LG= Lumentek Global	T8 – replaces T8 or T12	1200 = 1200MM (4' Nominal)	18 = 18 Watt	WW = Warm White 3000-3500 Kelvin PW = Pure White 4000-4500 Kelvin DL = Day Light 5500-6000 Kelvin	C = Clear F = Frosted	MWS = Microwave Sensor Series	DW = Direct Wire

LG-MWS Series 18 Watt LED T8 Motion Sensor Smart Tube

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SPECIFICATIONS

ITEM	SPECIFICATION	DETAILS		
GENERAL PERFORMANCE	Wattage / Lens Type	18W / CLEAR OR FROSTED	18W / CLEAR OR FROSTED	18W / CLEAR OR FROSTED
	Color Temperature (CCT)	WW = Warm White 3000-3500 Kelvin	PW = Pure White 4000-4500 Kelvin	DL = Day Light 5500-6000 Kelvin
	Lumens Delivered	1600	1750	1820
	Efficacy	89 LM/W	97 LM/W	101 LM/W
	LED Beam Angle	120 Degrees		
	PIR Sensor Beam Angle	120 Degrees		
	Brightness Setting (Unoccupied)	0% (OFF), 10%, 20%, 30%, 40%		
	Time (Sensitivity) Setting	5 Seconds, 30S, 1M, 3M, 5M, 10M, 20M, 30M, 60 Minutes		
	CRI	>80		
	Lumen Maintenance L70	50,000 hours		
ELECTRICAL	Power Factor	90%		
	Input Voltage	120V-277V 50/60 Hz		
PHYSICAL	Operating Temperature	-4 F to 104 F / -20 C to 40 C		
	Base	G13 - Medium Bipin		
	Length	1200 mm – 4' nominal		
	Lens	Polycarbonate		
CERTIFICATION	Certification	CE, FCC, RoHS		
	Material Usage	RoHS compliant; no mercury		
	Environment	IP50		
	Warranty	3 Years		

ORDERING

DLC MODEL #	WATT S	LUMENS	CCT	CRI	PF	CLEAR	FROSTED	EFFICACY (L/W)
LG-T8-1200-18-WW-C-MWS-DW	18	1600	3000-3500	80	.90	x		89
LG-T8-1200-18-PW-C-MWS-DW	18	1750	4000-4500	80	.90	x		95
LG-T8-1200-18-DL-C-MWS-DW	18	1820	5500-6000	80	.90	x		100
LG-T8-1200-18-WW-F-MWS-DW	18	1600	3000-3500	80	.90		x	89
LG-T8-1200-18-PW-F-MWS-DW	18	1750	4000-4500	80	.90		x	95
LG-T8-1200-18-DL-F-MWS-DW	18	1820	5500-6000	80	.90		x	100

LG-MW Series 18 Watt LED T8 Motion Sensor Smart Tube

SPECIFICATIONS



Microwave Sensor (4):
Maximum Sensing
range: 5-7 Meters

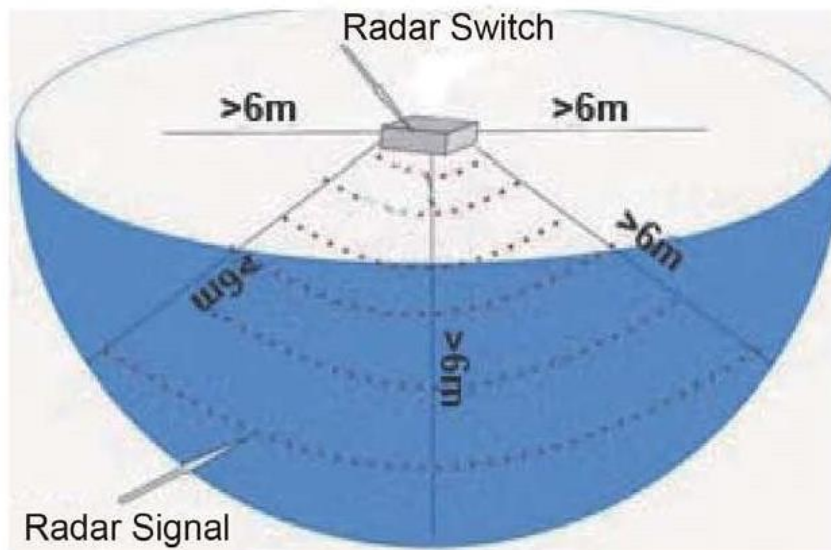


Time setting (1): When there is no activity, the tube light will stay after previous activity to the set time (5S, 30S, 1M, 3M, 5M, 10M, 20M, 30M, 60M)

Brightness setting (2): When there is no activity, the tube light will dim to the set brightness (0, 10%, 20%, 30%, 40%)



The End Cap (3): is rotatable 90° clockwise and counterclockwise to accurately position tube for the direction of sensing and illumination



Sensor Range

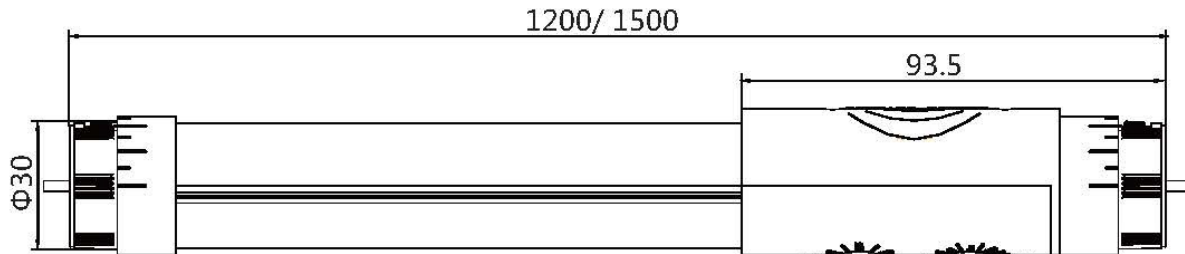
Sensor Angle: 180°*360°

LED T8 LG-PIR Motion Sensor Smart Tube



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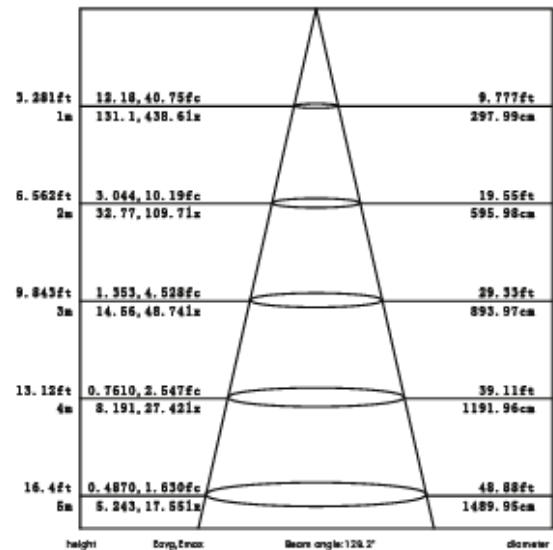
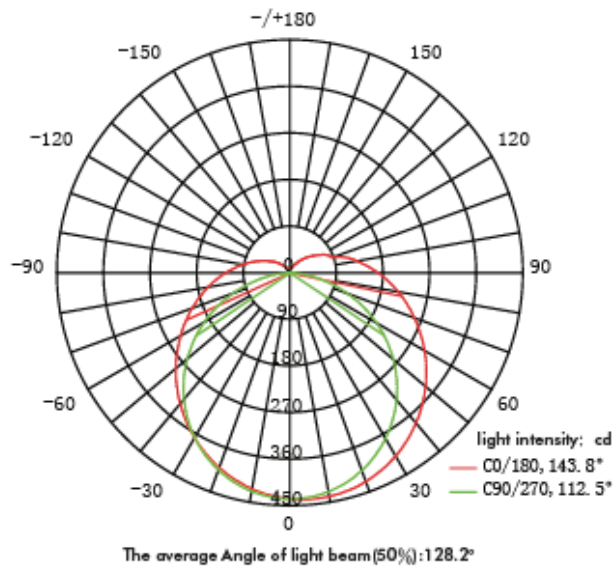
SPECIFICATIONS



Dimensions in mm



Photometric Data



LG-MW Series 18 Watt LED T8 Motion Sensor Smart Tube

WIRING DIAGRAMS

Installation Instruction:

