

Project Name: _____
 Date: _____ Note: _____

LED Surface Mount Downlight W/ Motion Sensor – SMD(MS) Series



Certification



Specifications

Model NO	SMD-5IN-10W-MS-CCT	SMD-7IN-15W-MS-CCT
Wattage	10W	15W
Lumens	830LM	1250LM
Size	5"	7"
Rated Input Voltage	120 VAC	
CCT	5CCT Selectable: 2700K-3000K-3500K-4000K-5000K	
Dimming	Triac Dimming	
CRI	≥80	
Beam Angle	120°	
Protection Rating	IP20 (For Indoor Use Only)	
CF	0.9	
Color Rendering Index	CRI>80	
Life Span	Lumen Maintenance Over 70% @ 50,000+ Hours	
Working Temperature	-13°F ~ +113°F / -25°C ~ +45°C	
Finish	White	
Certificate	ETL/ Energy Star	
Package Dimensions	12.8"x12.4"x6.8"	15.6"x12.8"x8.3"
PC/Master Pack	20	20
Weight	14.04 LB / 6.37 KG	19.97 LB / 9.06 KG



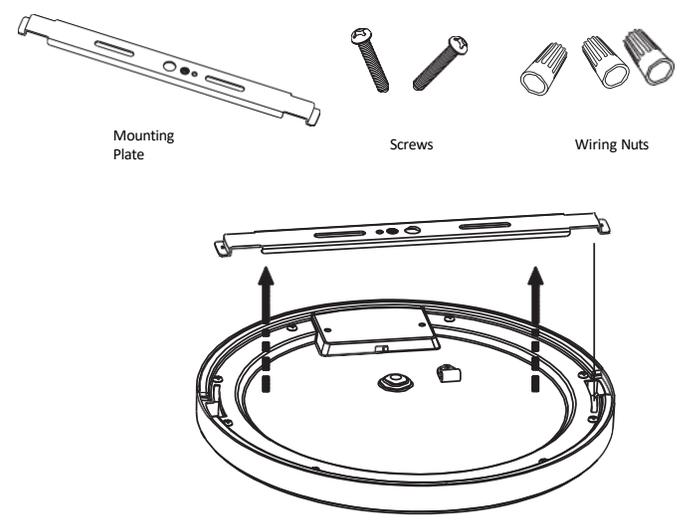
Application: Ideal for living rooms, bedrooms, hallways, administration offices, and commercial spaces.

Description

This compact, high-performance light features a flame-retardant PC housing and optical-grade acrylic for safety and brightness. Ideal for various applications, it offers flexible settings and smart options.

- Flame-retardant PC casing (FV-0) and high-transparency acrylic for safety and clarity
- Five selectable color temperatures with DIP switches to adjust power and color
- Built-in sensor functionality, including motion detection and ambient light sensing
- Available in 5" and 7" sizes; the 7" model can be paired with an emergency base that provides 90+ minutes of backup lighting

Accessories



Ordering Code Definition

EXAMPLE: HY-SMD-R5-10W-3CCT(MS)

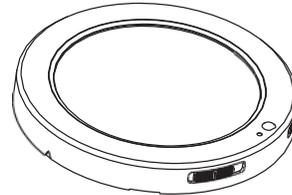
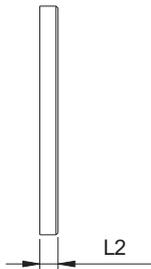
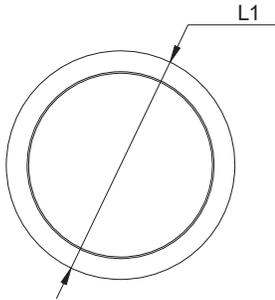
Product	Size	Watt	CCT	Suffix
SMD: Surface Mount Downlight	R5: Round 5"	10W	5CCT Selectable: 2700K-3000K-3500K-4000K- 5000K	(MS): Motion Sensor
	R7: Round 7"	15W		

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Product Dimensions

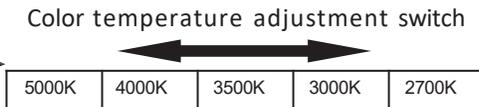
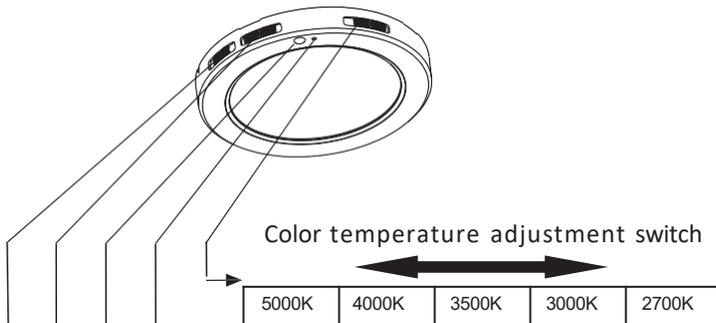
Front View

Side View



Model No.	SMD-5IN-10W-MS-CCT	SMD-7IN-15W-MS-CCT
Size		
L1	Φ146mm/Φ5.75"	Φ186mm/Φ7.32"
L2	23mm/0.91"	23mm/0.91"

Operating Guide



Light-controlled sensor head

Infrared Sensor Head

Three-Position Infrared Sensor Control DIP Switch (Temperature Control):
 Level 1: Infrared sensing can be disabled. The lamp remains on continuously, even after being manually turned off.
 Level 2: Low-brightness mode. When motion is detected, the lamp operates at full power:
 10W for a 5-inch lamp
 15W for a 7-inch lamp
 If no motion is detected for 30 seconds, the lamp dims to approximately 25% of its full power.
 Level 3: Normal infrared sensing mode. When motion is detected, the lamp operates at full power. If no motion is detected for 30 seconds, the lamp turns off.

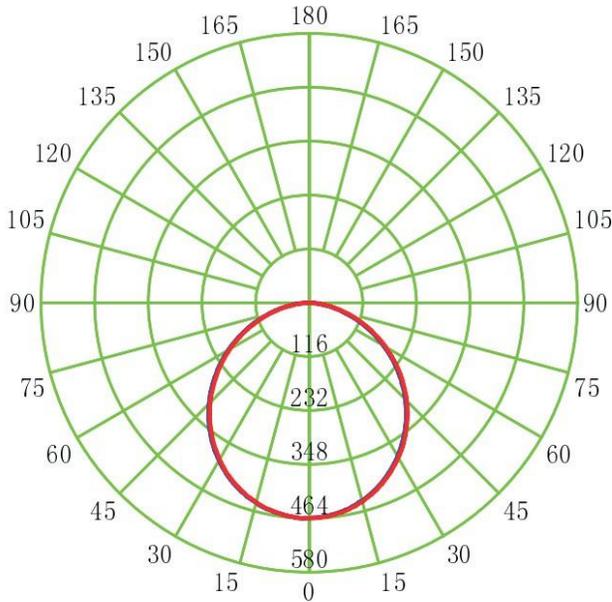
Two-Position Light Sensor Control Toggle Switch:
 When enabled, the lamp turns on when ambient light is below 15–20 lux and turns off when it exceeds 15–20 lux.
 If the ambient lighting conditions do not meet this threshold, the switch remains inactive (lamp stays off)

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Photometric Report

9" LIGHT

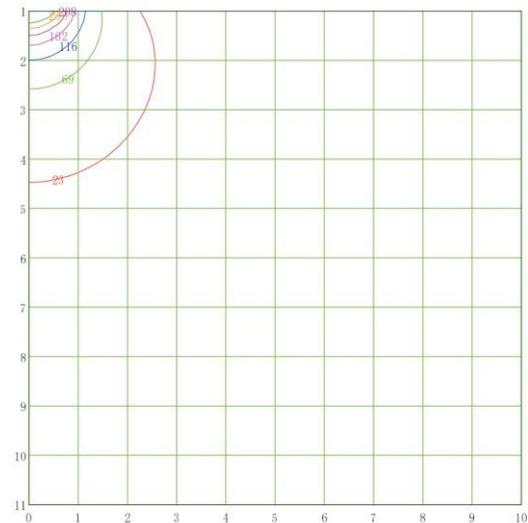
LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



Unit: cd

— C0-C180 — C90-C270

VERTICAL EQUILUMINOUS CURVE

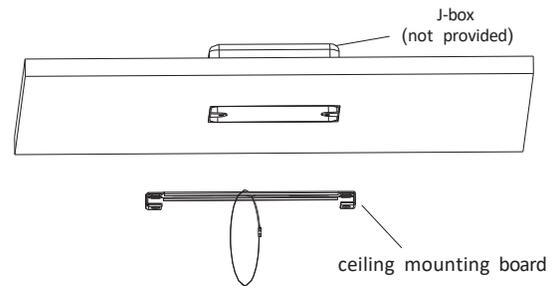


— (5%): 23.2 lx	— (15%): 69.5 lx
— (25%): 115.8 lx	— (35%): 162.1 lx
— (45%): 208.5 lx	— (55%): 254.8 lx
— (65%): 301.1 lx	

Installation Instruction

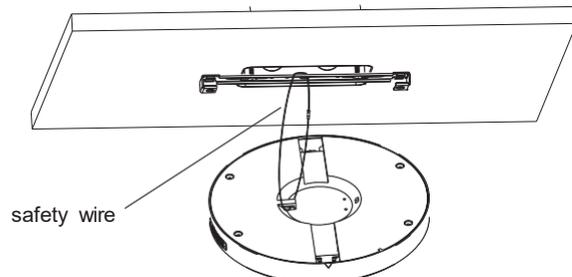
1

Prepare for Installation
 Turn off the power supply to ensure safety before beginning any installation work.
 Use the screws provided in the accessory package to attach the ceiling mounting plate to the ceiling's electrical box.



2

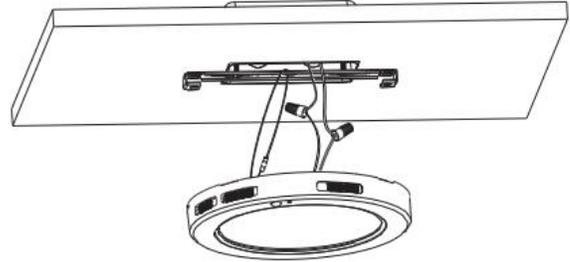
Attach the Safety Wire
 Insert the safety wire into the hook located on the rear cover plate of the lamp. This helps prevent the lamp from falling and causing injury during installation or maintenance.



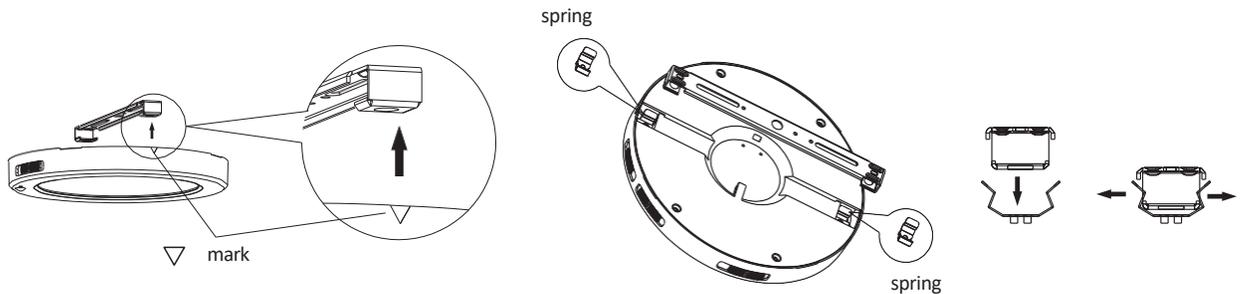
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3

Remove the wire caps from the accessory package. Connect the N (neutral) and L (live) wires from the ceiling power box to the corresponding N and L wires on the lamp.



4



Align the positioning mark on the lamp with the “▽” (or designated) mark on the ceiling mounting plate. Then, push the lamp upward toward the ceiling. The spring mechanism on the back of the lamp ensures a secure and tight fit between the lamp and the mounting plate..

Warning



- Improper installation or wiring not in accordance with the National Electrical Code (NEC), and applicable federal, state, and local codes, or UL safety standards, may result in serious injury, death, or property damage.
- This product must be installed by a person familiar with the fixture's construction, operation, and potential hazards.
- For 120V, 60Hz use only.
- Risk of fire or electric shock: Homes built before 1985 may have 60°C-rated wires. If wires are within 3 inches of the ballast, use wires rated at least 90°C. Consult a qualified electrician.
- Compatible with Triac dimmers.
- Turn off power at the main circuit breaker before installation.
- Ensure proper grounding in accordance with the NEC.
- Fixture is suitable for damp locations.
- These instructions do not cover every possible condition. Exercise caution, use common sense, and follow safety practices during installation and use.