

DESCRIPTION

The Halo Surface Mount LED Downlight (SMD) is an ultra-low profile surface mounting luminaire with a modern look and high performance. SMD4-DM (4" with spring clips) is designed for new installation into drywall, without any additional housing or junction box needed. Suitable for residential or commercial installations. Ideal for general areas, closets, storage areas, attics and basements.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

HOUSING

- Non-electrically conductive polycarbonate frame.
- High impact diffuse polystyrene lens provides shielding to the light guide with no pixilation
- Stamped aluminum housing provides thermal cooling achieving L70 at 50,000 hours in IC and non-IC applications

GASKETS

- Closed cell gasket achieves restrictive airflow and wet location requirements without additional caulking

OPTICS

- Precision acrylic light guide organizes source flux into wide distribution with 1.2 – 1.4 spacing criteria useful for general area illumination

LED

- Mid power led array provide a uniform source with high efficiency and long life.
- Available in 90 CRI minimum, R9 greater than 50 and color accuracy within 3 SDCM provide color accuracy and uniformity

DRIVER

- Integral 120V 50/60Hz constant current driver provides noise free operation.
- Continuous, flicker-free dimming from 100% to 5% with select leading or trailing edge 120V phase cut dimmers.
- Dimming to 5% is best assured using dimmers with low end trim adjustment. Consult dimmer manufacturer for compatibility and conditions of use. (Note some dimmers require a neutral in the wallbox.)
- Inline electrical quick connect (provided) provides mains connections.

MOUNTING/RETENTION

- The SMD-DM with Spring Clips requires no housing or junction box.
- The integral enclosure may be used in direct contact with insulation including spray foam insulation.
- Installer must cut template out of drywall, and install into the aperture with the clips compressed.
- When released, the spring clips will rest on to the back side of the drywall.
- Installer must ensure secure fit and wiring. This includes all applicable national and local electrical and building codes

COMPLIANCE

- cULus listed / certified for use with Halo housings, classified for use with other's housings, see instruction sheet for conditions of acceptability.
- Wet and Damp Location listed, airtight per ASTM-E283
- Suitable for use in clothes closets when installed in accordance with the NEC 410.16 spacing requirements.
- EMI/RFI emissions per FCC 47CFR Part 15B
- Contains no mercury or lead and RoHS compliant.
- Photometric testing in accordance with IES LM-79-08
- Lumen maintenance projections in accordance with IES LM-80-08 and TM-21-11.
- Can be used for State of California Title 24 high efficacy luminaire compliance, reference the California Energy Commission Title 20 Appliance Efficiency Database for current listings.
- Can be used for International Energy Conservation Coe (IECC) and Washington State Energy Code high efficiency luminaire compliance

WARRANTY

- Five year limited warranty, consult website for details. www.eaton.com/lighting/legal



SMD4-DM Series

4 Inch Round and Square Direct Mount

SMD4R-DM
SMD4S-DM

4" Surface Mount Downlight

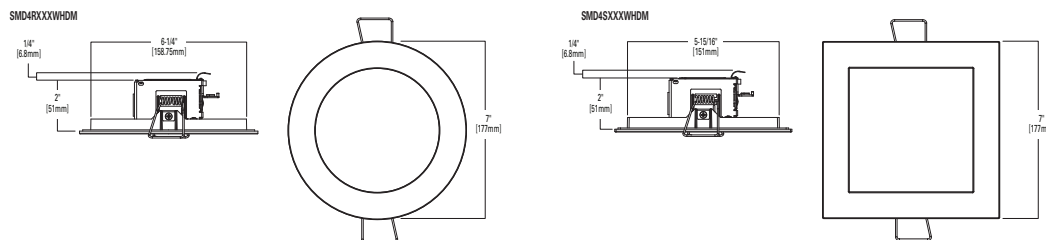
Direct Mount into non-accessible ceiling

ORDERING INFORMATION

SAMPLE NUMBER: SMD4R6930WHDM=4" Round Surface Mount Downlight, 90CRI, 3000K, Direct Mount

Models	Lumens	CRI / CCT	Finish	Mouting
SMD4R= 4" Round Surface Mount Downlight, 120V	6=600 lumen series	927=90CRI, 2700K	WH=White	DM=Direct Mount
SMD4S= 4" Square Surface Mount Downlight, 120V		930=90CRI, 3000K		
		935=90CRI, 3500K		
		940=90CRI, 4000K		
		950=90CRI, 5000K		

DIMENSIONS



ENERGY DATA

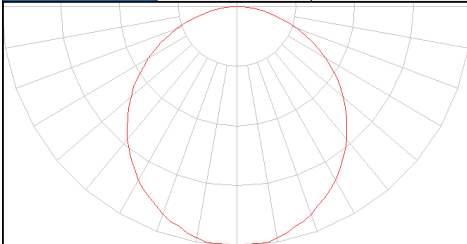
	Round	Square
Lumens (5000K models)	786	810
Input Power	9.7 W	10 W
Input Current	0.0811 A	0.0829 A
Efficiency	81 lm/W	81 lm/W
THD	13.3	13.2
Input Voltage	120V	
Frequency	50/60 Hz	
CRI	90 CRI	
Power Factor	0.99	
T Ambient	-30 - +40°C	
Sound Rating	Class A	



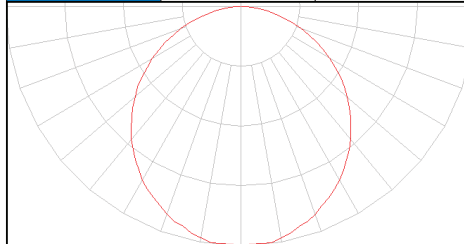
Refer to ENERGY STAR® Qualified Products List. Can be used to comply with California Title 24 High Efficacy requirements. Certified to California Appliance Efficiency Database under JA8.

PHOTOMETRIC DATA

SMD4R6927WHDM		
Luminaire lumens		690
Input watts		9.5
LER (LPW)		73
Spacing Criteria	0-180	1.26
	90-270	1.26
	Diagonal	1.38
Beam angle (degrees)		112
Field angle (degrees)		162
Max. Candela		243
Zonal lumen	Lumens	% Lumens
0-30	187	27.2%
0-40	306	44.5%
0-60	542	78.6%
0-90	690	100.00%

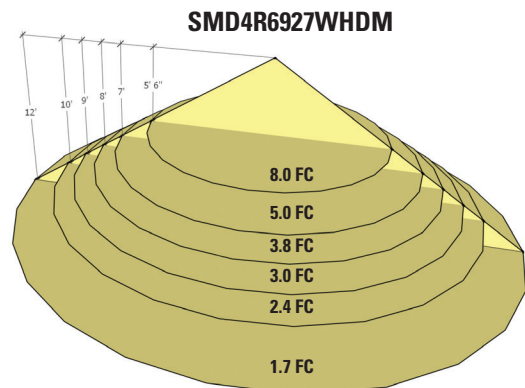


SMD4S6927WHDM		
Luminaire lumens		750
Input watts		9.5
LER (LPW)		79
Spacing Criteria	0-180	1.24
	90-270	1.24
	Diagonal	1.36
Beam angle (degrees)		109
Field angle (degrees)		162
Max. Candela		278
Zonal lumen	Lumens	% Lumens
0-30	207	27.6%
0-40	336	44.9%
0-60	589	78.6%
0-90	750	100.00%



Cat. No.	CRI	CCT	Lumens	Power (W)	LPW
SMD4R6927WHDM	93	2700	690	9.50	72.6
SMD4R6930WHDM	93	3000	700	9.70	72.2
SMD4R6935WHDM	94	3500	740	9.70	76.3
SMD4R6940WHDM	94	4000	760	9.80	77.6
SMD4R6950WHDM	91	5000	786	9.70	81.0
SMD4S6927WHDM	92	2700	750	9.50	78.9
SMD4S6930WHDM	92	3000	790	9.90	79.8
SMD4S6935WHDM	93	3500	740	9.90	74.7
SMD4S6940WHDM	93	4000	800	10.10	79.2
SMD4S6950WHDM	90	5000	810	10.00	81.0

Foot-candle Values at Nadir 0 degree Aiming Angle			
DD (FT)	SMD4R6927WHDM (FC)	SMD4S6927WHDM (FC)	DIA (FT)
5.5	8.0	9.2	16.3
7	5.0	5.7	20.9
8	3.8	4.3	23.8
9	3.0	3.4	26.8
10	2.4	2.8	29.7
12	1.7	1.9	35.7



DD = distance down to illuminated work plane
FC = initial foot-candles at nadir
DIA = diameter

Multiplier Table					
CCT Option	2700K	3000K	3500K	4000K	5000K
CCT Multiplier	1.00	1.014	1.042	1.083	1.083