

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

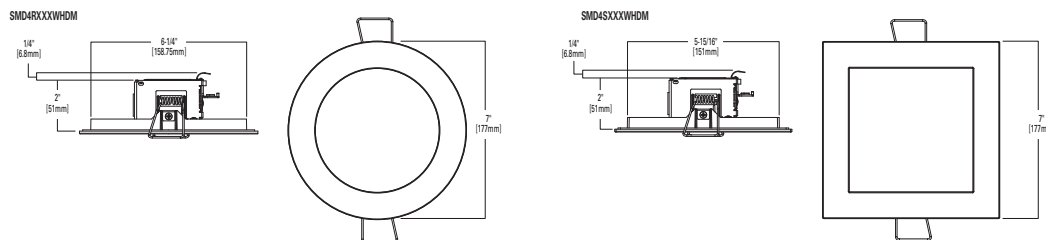
Direct Mount into non-accessible ceiling

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

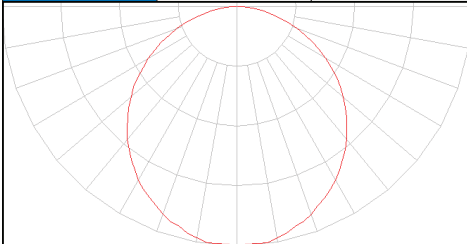
| | Round | Square |
|-----------------------|-------------|----------|
| Lumens (5000K models) | 786 | 810 |
| Input Power | 9.7 W | 10 W |
| Input Current | 0.0811 A | 0.0829 A |
| Efficiency | 81 lm/W | 81 lm/W |
| THD | 13.3 | 13.2 |
| Input Voltage | 120V | |
| Frequency | 50/60 Hz | |
| CRI | 90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



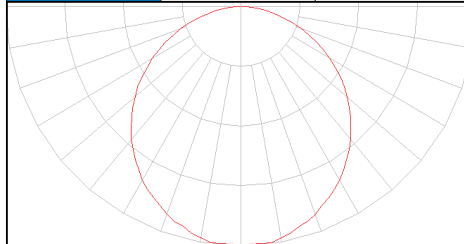
Refer to ENERGY STAR® Qualified Products List. Can be used to comply with California Title 24 High Efficacy requirements. Certified to California Appliance Efficiency Database under JA8.

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% |

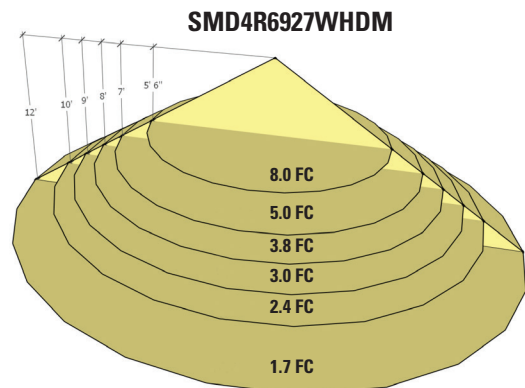


| SMD4S6927WHDM | | |
|-----------------------|----------|----------|
| Luminaire lumens | 750 | |
| Input watts | 9.5 | |
| LER (LPW) | 79 | |
| Spacing Criteria | 0-180 | 1.24 |
| | 90-270 | 1.24 |
| | Diagonal | 1.36 |
| Beam angle (degrees) | 109 | |
| Field angle (degrees) | 162 | |
| Max. Candela | 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 |

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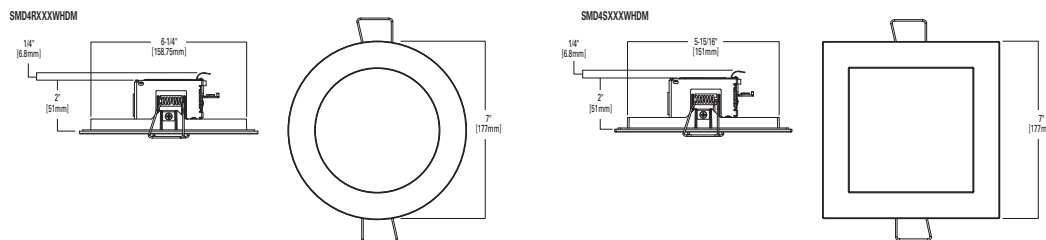
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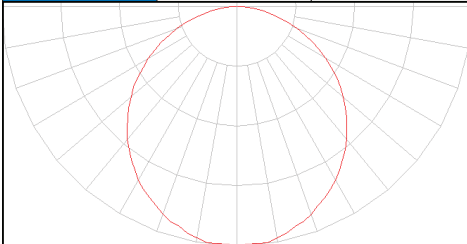
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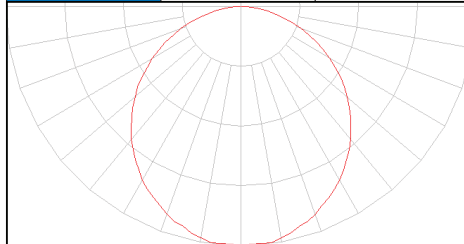
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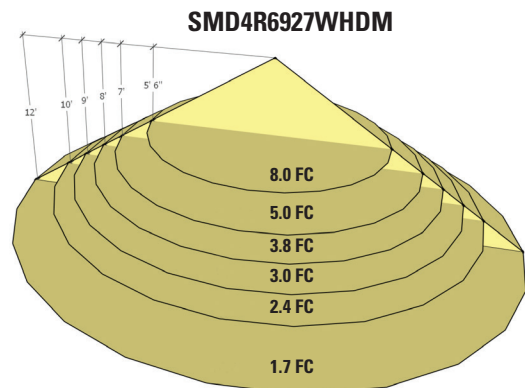


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