

| | | | | | |
|-------------|--|-----------|--|------|--|
| Project | | Catalog # | | Type | |
| Prepared by | | Notes | | Date | |



HALO

SMD4-DM

4-Inch Round and Square Canless

Typical Applications

Office • Education • Healthcare • Hospitality • Retail • Code-Compliance Areas • Residential

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Product Certification



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

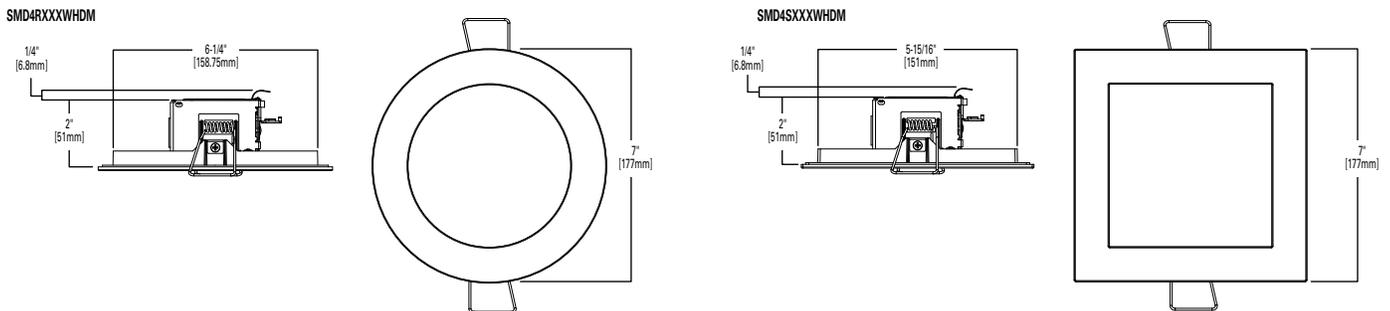
Product Features



Top Product Features

- Round and square surface-mount downlights with integral junction box
- Mounts into drywall ceiling/wall (no junction box or housing required)
- Ultra-low profile with wide distribution, Lumens: up to 810
- 5 color temperatures: 2700K, 3000K, 3500K, 4000K or 5000K CCT, CRI: 90
- Wet location listed for showers and protected ceilings
- Damp location listed for indoor ceiling or wall mounting

Dimensional and Mounting Details



Order Information

SAMPLE ORDER NUMBER: **SMD4R6930WHDM**

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

Product Specifications

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

- UL Certified for US and Canada, type IC suitable for direct contact with air permeable insulation
- Not for use in direct contact with spray foam insulation, reference NEMA LSD57-2013
- Wet and Damp Location listed, airtight per ASTM-E283
- Suitable for use in closets, compliant with NFPA® 70, NEC® Section 410.16 (A)(3) and 410.16 (C)(5)
- 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.cooperlighting.com/warranty

Energy Data

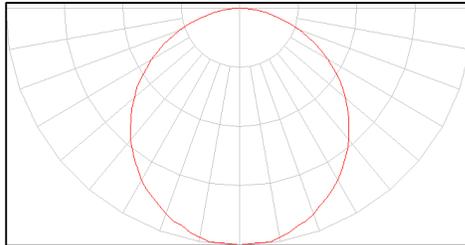
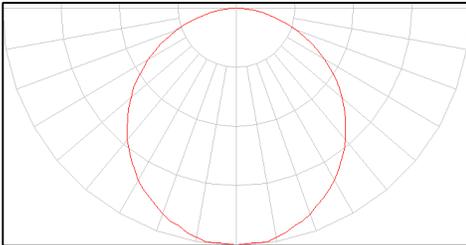
| | Round | Square |
|----------------|----------|----------|
| Lumens (5000K) | 786 | 810 |
| Input Voltage | 120V | 120V |
| Input current | 0.0811 A | 0.0829 A |
| Input Power | 9.7 W | 10 W |
| Efficiency | 81 lm/W | 81 lm/W |
| THD | 13.3 | 13.2 |
| PF | 0.99 | 0.99 |
| Sound Rating | Class A | Class A |

Photometric Data

 View IES files

| 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% |

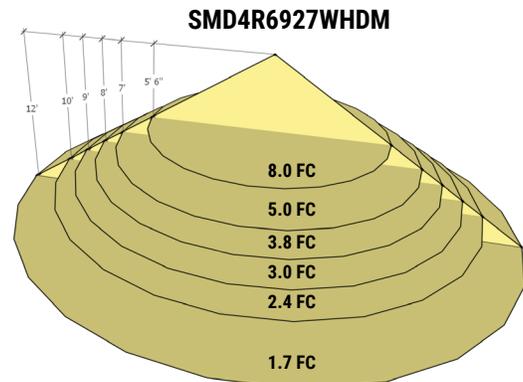
| SMD4S6927WHDM | | |
|-----------------------|----------|----------|
| Luminaire lumens | 750 | |
| Input watts | 9.5 | |
| LER (LPW) | 79 | |
| Spacing Criteria | 0-180 | 1.24 |
| | 90-270 | 1.24 |
| | Diagonal | 1.36 |
| Beam angle (degrees) | 109 | |
| Field angle (degrees) | 162 | |
| Max. Candela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



| Catalog 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 |

Note: Refer to IES files for more product data.