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



# HALO

## SMD14 Series

14" Round and Square
Surface Mount Downlight

SMD14R & SMD14S

**Typical Applications**
Residential

## 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 JA8.

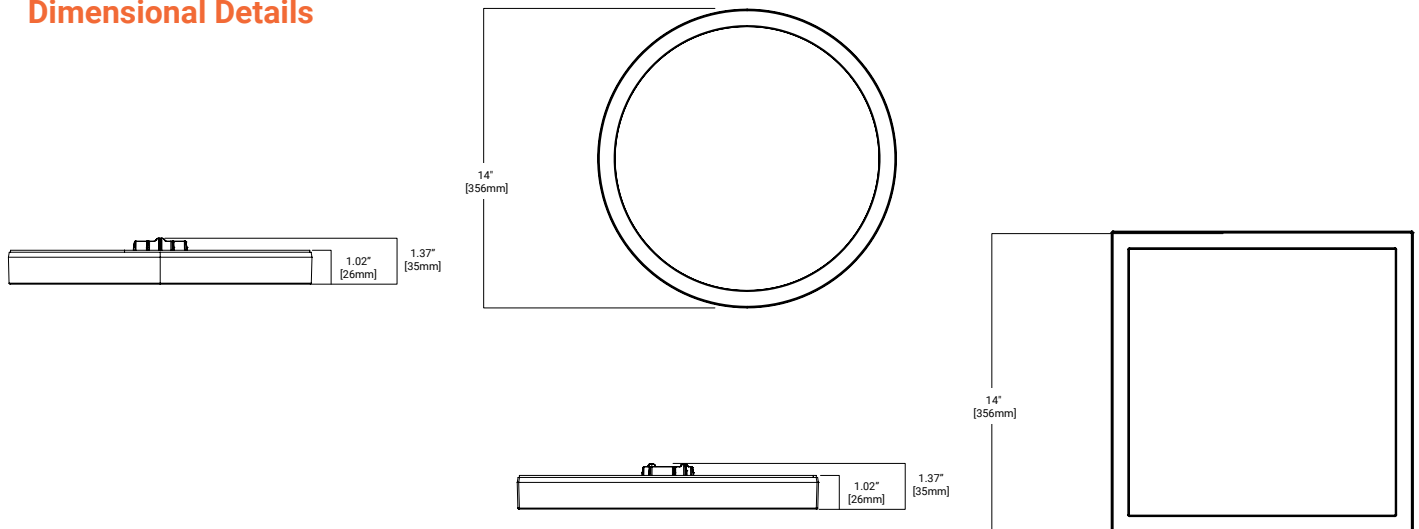## Product Features



### Interactive Menu

## Top Product Features

- Ultra-low profile surface luminaire with wide distribution
- Ceiling or wall mounting in compatible junction boxes
- 2000 lumen; 2700K, 3000K, 3500K, 4000K or 5000K CCT; 90 CRI
- Universal Voltage 120V – 277V options
- Dimmable with 0-10V DC low voltage dimmers only

## Dimensional Details



14"
[356mm]

1.02"
[26mm]

1.37"
[35mm]

14"
[356mm]

1.02"
[26mm]

1.37"
[35mm]


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## Ordering Information

SAMPLE NUMBER: **SMD14R20930WHE** = 14" Round Surface Mount Downlight, 90CRI, 3000K
Junction Box Installation: Order junction box separately, as supplied by others, to complete installation.
Recessed Installation: Order Halo recessed housing separately to complete installation.

| Models | Lumens | CRI/CCT | Finish | Voltage |
|--------|--------|---------|--------|---------|
| **SMD14R** = 14" Round Surface Mount Downlight<br>**SMD14S** = 14" Square Surface Mount Downlight | **20** = 2000 lumen series | **9S** = 90 CRI, field selectable 2700K, 3000K, 3500K, 4000K or 5000K CCT | **WH** = Matte White | **E** = UNV Universal 120-277V |

| Accessories |
|-------------|
| **SMD14RTRMSN** = 14" Round SMD Satin Nickel<br>**SMD14RTRMTBZ** = 14" Round SMD Tuscan Bronze<br>**SMD14RTRMWH** = 14" Round SMD White (paintable)<br><br>**SMD14STRMSN** = 14" Square SMD Satin Nickel<br>**SMD14STRMTBZ** = 14" Square SMD Tuscan Bronze<br>**SMD14STRMWH** = 14" Square SMD White (paintable)<br><br>**T24HWKIT** = Title 24 Cable harness kit used to convert incandescent and low voltage housings to LED<br>**HE26LED** = E26 Screw base adapter for retrofit (included) |



**SMD14RTRMWH**
round, white (paintable)

**SMD14RTRMSN**
round, satin nickel

**SMD14RTRMTBZ**
round, tuscan bronze

**SMD14STRMWH**
round, white (paintable)

**SMD14STRMSN**
round, satin nickel

**SMD14STRMTBZ**
round, tuscan bronze

## 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
- Integrated 120-277V 60Hz constant current driver provides noise free operation.
- SMD Universal Voltage (120-277V) configurations are recommended for use with compatible 0-10V DC low voltage dimmers only.

### Mounting/Retention
- Adjustable spider plate allows for quick installation into junction boxes.

### Electrical Junction Box Mounting
- The SMD may be used in compatible electrical junction boxes in direct contact with insulation including spray foam insulation.
- Suitable for installation in many 3-1/2" and 4" square, octagon, and round electrical junction boxes.
- **Note:** SMD14 is only compatible with junction boxes that provide minimum depth of 2-1/8".
- Installer must ensure compatibility of fit, wiring and proper mounting in the electrical junction box. This includes all applicable national and local electrical and building coded

### Designer Skins (sold separately)
- SMD skins are accessory rings in both round and square. These skins attach to the SMD for a permanent finish. Refer to the SMD accessories specification sheet for details.
  - Matte White (Paintable)
  - Satin Nickel
  - Tuscan Bronze

### Compliance
- cULus Certified in US and Canada.
- 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 Code (IECC) and high efficiency luminaire compliance
- ENERGY STAR® listed, reference database for current listings

### Warranty
- Five-year limited warranty.


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## Junction Box Compatibility

**\*Note:** SMD12 configuration is only compatible with junction boxes that provide a minimum depth of 2-1/8". Junction boxes meeting these requirements listed below.

**4" octagon light fixture/fan steel box**
4" x 4" x 2-1/8"
(102mm x 102mm x 54mm)

**4" square deep steel box**
4" x 4" x 2-1/8"
(102mm x 102mm x 54mm)

**TP316**
for non-metallic cable
4" x 4" x 2-1/8"
(102mm x 102mm x 54mm)

**TP317**
for metal clad cable
4" x 4" x 2-1/8"
(102mm x 102mm x 54mm)

**4" round new work non-metallic light fixture/fan box**
4" diameter x 2-3/16"
(102mm x 56mm)

**3-1/2" round new work non-metallic ceiling box**
3-1/2" diameter x 2-3/4"
(89mm x 70mm)

**3-1/2" round old work non-metallic box**
4-1/4" O.D. flange, 3-1/2" I.D. x 2-5/8"
(108mm O.D., 89mm I.D. x 67mm)

**4" round new work non-metallic box with hanger bar assembly**
4" diameter x 2-3/16"
(102mm x 56mm)

*This is a representative list of compatible junction boxes only. Information contained in this literature about other manufacturers' products is from published information made available by the manufacturer and is deemed to be reliable, but has not been verified. Cooper Lighting Solutions makes no specific recommendation on product selection and there are no warranties of performance or compatibility implied. Installer must determine that site conditions are suitable to allow proper installation of the mounting bracket in the box.

## Photometric Data
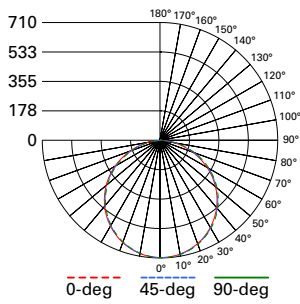
### SMD14R09SWHE - 3000K



Spacing criterion: (0-180) 1.27
(90-270) 1.27
(Diagonal) 1.39
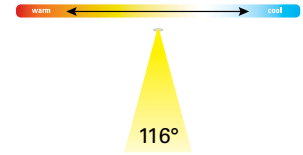
Beam Angle: 116°
Lumens: 2088
Input Watts: 26.1 W
Efficacy: 80 LPW
UGR: 19
Test Report:
SMD14R09SWHE 3000K.IES

| Zonal Lumen | Lumens | % Lumens |
|---|---|---|
| 0-30 | 553 | 26.5 |
| 0-40 | 909 | 43.5 |
| 0-60 | 1621 | 77.6 |
| 0-90 | 2084 | 99.8 |

| TM-30-15 | Rf = 92 |
|---|---|
| | Rg = 99 |
| CRI/CIE | Ra = 95 |
| | R9 = 70 |

CCT - Range of 2700K- 5000K

116°

### SMD14R09SWHE*

| Nominal Lumens | CCT | Watts | lumens | LPW | CRI |
|---|---|---|---|---|---|
| 2000LM | 2700K | 26.4 | 1977 | 74.9 | 93 |
| | 3000K | 26.4 | 2014 | 76.3 | 94 |
| | 3500K | 26.5 | 2054 | 77.5 | 95 |
| | 4000K | 26.5 | 2090 | 78.9 | 95 |
| | 5000K | 26.5 | 2150 | 81.1 | 93 |

### SMD12R09SWHE - 3000K

**PRODUCT SPECIFICATIONS**

| | |
|---|---|
| Lumens | 2014 |
| Watts | 26.4 |
| Lumens Per Watt (Efficacy) | 76.3 |
| Color Accuracy (CRI) | 94 |
| Light Color (CCT) Correlated Color Temperature (CCT) | 3000K |

warm white | soft white | bright white
2700K | 3000K | 4500K | 6500K
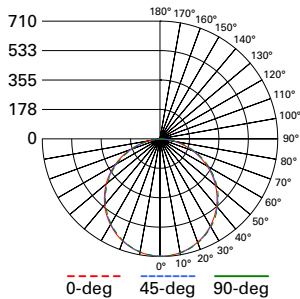
### SMD12S09SWHE - 3000K



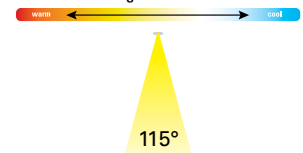Spacing criterion: (0-180) 1.27
(90-270) 1.27
(Diagonal) 1.39

Beam Angle: 115°
Lumens: 2088
Input Watts: 26.1 W
Efficacy: 80 LPW
UGR: 19
Test Report:
SMD14S09SWHE 3000K.IES

| Zonal Lumen | Lumens | % Lumens |
|---|---|---|
| 0-30 | 553 | 26.5 |
| 0-40 | 909 | 43.5 |
| 0-60 | 1621 | 77.6 |
| 0-90 | 2084 | 99.8 |

| TM-30-15 | Rf = 92 |
|---|---|
| | Rg = 99 |
| CRI/CIE | Ra = 95 |
| | R9 = 70 |

CCT - Range of 2700K- 5000K

115°

### SMD14S09SWHE*

| Nominal Lumens | CCT | Watts | lumens | LPW | CRI |
|---|---|---|---|---|---|
| 2000LM | 2700K | 26.4 | 2053 | 77.8 | 93 |
| | 3000K | 26.4 | 2079 | 78.8 | 94 |
| | 3500K | 26.4 | 2112 | 80.0 | 95 |
| | 4000K | 26.4 | 2142 | 81.1 | 95 |
| | 5000K | 26.4 | 2185 | 82.8 | 93 |

### SMD12S09SWHE - 3000K

**PRODUCT SPECIFICATIONS**

| | |
|---|---|
| Lumens | 2079 |
| Watts | 26.4 |
| Lumens Per Watt (Efficacy) | 78.8 |
| Color Accuracy (CRI) | 94 |
| Light Color (CCT) Correlated Color Temperature (CCT) | 3000K |

warm white | soft white | bright white
2700K | 3000K | 4500K | 6500K

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