HALO

SMD4 Series

4" Round and Square Surface Mount Downlight

SMD4R & SMD4S

Typical Applications
Residential

Interactive Menu

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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 JA8.

Product Features

Top Product Features

- Ultra-low profile surface luminaire with wide distribution
- Ceiling or wall mounting in compatible junction boxes
- Retrofit 4" recessed downlights with screwbase adapter (SOLD SEPERATELY)
- 2700K, 3000K, 3500K, 4000K or 5000K field selectable CCT; 90 CRI
- Dimmable with 120V dimmer

Dimensional and Mounting Details

SMD4RXXXWH

9/16"
[14mm]

15/16"
[23.9mm]

6-5/32"
[156.4mm]

SMD4SXXXWH

17/32"
[13.5mm]

15/16"
[23.9mm]

5-15/16"
[151mm]

5-15/16"
[151mm]

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SMD4 SeleCCTable Series

Order Information

SAMPLE NUMBER: SMD4R69SWH = 4" Round Surface Mount Downlight, 600 lumen, 90CRI, Selectable CCT, White
Junction Box Installation: Order junction box separately, as supplied by others, to complete installation.
Recessed Installation: Order HALO recessed housing and SMD4ACCKIT separately to complete installation.

Models	Lumens	CRI / CCT	Finish	Accessories
SMD4R = 4" Round Surface Mount Downlight, 120V **SMD4S** = 4" Square Surface Mount Downlight, 120V	**6** = 600 lumen series	**9S** = 90CRI, 2700K - 5000K Field Selectable CCT	**WH** = Mate White	**Designer Trims** **SMD4RTRMSN** = 4" Round SMD Satin Nickel **SMD4RTRMTBZ** = 4" Round SMD Tuscan Bronze **SMD4RTRMWH** = 4" Round SMD White (paintable) **SMD4RTRMMB** = 4" Round SMD Matte Black **SMD4STRMSN** = 4" Square SMD Satin Nickel **SMD4STRMTBZ** = 4" Square SMD Tuscan Bronze **SMD4STRMWH** = 4" Square SMD White (paintable) **SMD4STRMMB** = 4" Square SMD Matte Black **T24HWKIT** = Title 24 Cable harness kit used to convert incandescent and low voltage housings to LED **SMD4ACCKIT =** SMD4 accessory kit includes friction clips and a Edison screwbase adapter for recessed housing installation.
Notes	Notes	Notes	Notes	Notes

Accessories

Designer Trims

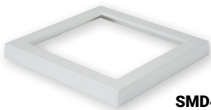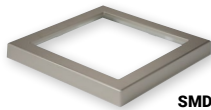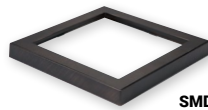|			
SMD4RTRMWH round, white (paintable)	**SMD4RTRMSN** round, satin nickel	**SMD4RTRMTBZ** round, tuscan bronze	**SMD4RTRMMB** round, matte black
SMD4STRMWH square, white (paintable)	**SMD4STRMSN** square, satin nickel	**SMD4STRMTBZ** square, tuscan bronze	**SMD4STRMMB** square, matte black

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JUNCTION BOX COMPATIBILITY

*Note: SMD 120-277V UNV configuration is only compatible with junction boxes that provide a minimum depth of 2-1/8". Junction boxes meeting these requirements listed below.

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

4" octagon steel box
4" x 4" x 1-1/2"
(102mm x 102mm x 38mm)

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

4" square standard steel box
4" x 4" x 1-1/2"
(102mm x 102mm x 38mm)

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 surface mount box
4" diameter x 1-1/2"
(102mm x 38mm)
Requires SLD6RAD adapter

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.

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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 and E26 adapter (provided) provides mains connections.

Mounting/Retention
- Adjustable spider plate allows for quick installation into both junction boxes and recessed housings
- Friction blades included

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
- 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

Recessed Housing Mounting
Note: Use the SMDACCKIT which includes friction blades and Edison base adapter. (SOLD SEPERATELY)
- May be installed in IC recessed housings in direct contact with insulation
  Note: Not for use in recessed housing in direct contact with spray foam insulation. Refer to NEMA LSD 57-2013

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 listed / certified for use with Halo housings, classified for use with other's housings , when used with SMDACCKIT (Sold Seperately), see instruction sheet for conditions of acceptability.
- 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
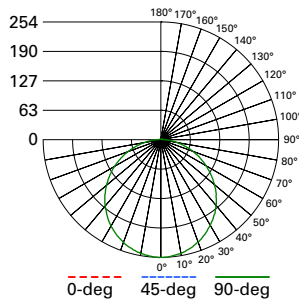
Warranty
- Five year limited warranty, consult website for details. www.cooperlighting.com/legal
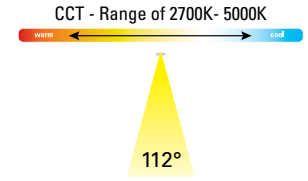
Energy Data

	Round	Square
Lumens (5000K models)	738	787
Input Power	9 W	9 W
Input Current	0.077 A	0.079 A
Efficiency	89 lm/W	84 lm/W
Input Voltage	120V	
Frequency	60 Hz	
CRI	90 CRI	
Power Factor	0.98	
T Ambient	-30 - +40°C	
Sound Rating	Class A	

Photometric Data

SMD4R69SWH - 3000K.IES

Spacing criterion: (0-180) 1.26
(90-270) 1.26
(Diagonal) 1.38

Beam Angle: 112°
Lumens: 737
Input Watts: 9.1 W
Efficacy: 81 LPW
Test Report:
SMD4R69SWH - 3000K.IES

254
190
127
63
0

180° 170° 160° 150° 140° 130° 120° 110° 100° 90° 80° 70° 60° 50° 40° 30° 20° 10° 0°

0-deg   45-deg   90-deg

Zonal Lumen	Lumens	% Lumens
0-30	196	26.5
0-40	321	43.5
0-60	569	77.2
0-90	732	99.3

CCT - Range of 2700K- 5000K
warm ← → cool

112°

SMD4R69SWH	CCT	Watts	Lumens	LPW	CRI
600 Lumen 4" Round Selectable CCT	2700K	9.3	702	75.2	93
	3000K	9.4	718	76.7	93
	3500K	9.4	733	78.4	94
	4000K	9.4	747	79.9	94
	5000K	9.3	763	81.7	93

PRODUCT SPECIFICATIONS

Lumens	718
Watts	9.4
Lumens Per Watt (Efficacy)	76.4
Color Accuracy (CRI)	93
Light Color (CCT) Correlated Color Temperature (CCT)	3000K

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

SMD4S69SWH - 3000K.IES

Spacing criterion: (0-180) 1.26
(90-270) 1.28
(Diagonal) 1.38

Beam Angle: 112°
Lumens: 741
Input Watts: 9.2 W
Efficacy: 81 LPW
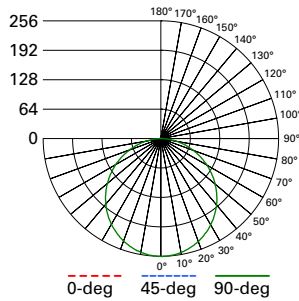Test Report:
SMD4S69SWH - 3000K.IES

256
192
128
64
0

180° 170° 160° 150° 140° 130° 120° 110° 100° 90° 80° 70° 60° 50° 40° 30° 20° 10° 0°

0-deg   45-deg   90-deg

Zonal Lumen	Lumens	% Lumens
0-30	198	26.7
0-40	324	43.7
0-60	575	77.6
0-90	738	99.5

CCT - Range of 2700K- 5000K
warm ← → cool

112°
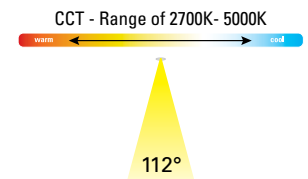
SMD4S69SWH	CCT	Watts	Lumens	LPW	CRI
600 Lumen 4" Square Selectable CCT	2700K	9.5	710	74.8	92
	3000K	9.5	724	76.1	93
	3500K	9.5	738	77.4	94
	4000K	9.5	749	78.5	94
	5000K	9.5	757	79.4	93

PRODUCT SPECIFICATIONS

Lumens	724
Watts	9.5
Lumens Per Watt (Efficacy)	76.2
Color Accuracy (CRI)	93
Light Color (CCT) Correlated Color Temperature (CCT)	3000K

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

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