Project	Catalog #	Туре	
Prepared by	Notes	Date	



HALO

SMD12 Series

12" Round Surface Mount Downlight SMD12R

Typical Applications 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.

Top Product Features

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

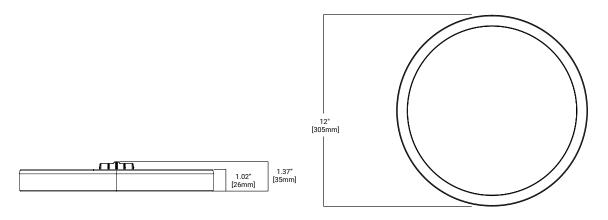
Product Features







Dimensional Details





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Ordering Information

SAMPLE NUMBER: SMD12R209SWHE = 12" Round Surface Mount Downlight, 90CRI, 3000K Junction Box Installation: Order junction box separately, as supplied by others, to complete installation.

Models Lumens CRI/CCT Finish Voltage

Models	Lumens	CRI/CCT	Finish	Voltage
SMD12R = 12" Round 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

SMD12RTRMSN = 12" Round SMD Satin Nickel SMD12RTRMTBZ = 12" Round SMD Tuscan Bronze SMD12RTRMWH = 12" Round SMD White (paintable)







SMD12RTRMSN round, satin nickel



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

- · 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

- · Integrated 120-277V 60Hz constant current driver provides noise free operation.
- · SMD 12" is 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 both junction boxes and recessed housings.
- · Torsion springs and 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.
- · Note: SMD12 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 for use with Halo housings and 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 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 I M-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



HALO SMD12R

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.

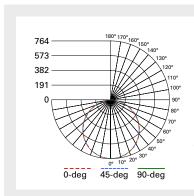
Energy Data

SMD12R

	Round		
Lumens (5000K models)	2395 lumens		
Input Power	26.32 W		
Input Current	222.8 mA @ 120V	108 mA @ 277V	
Efficiency	90 lm/W		
THD	< 20%		
Input Voltage	120V-277V		
Frequency	50/60 Hz		
CRI	93 CRI		
Power Factor	0.99		
T Ambient	-30 - +40°C		
Sound Rating	Class A		

HALO SMD12R

Photometric Data



SMD12R09SWHE - 3000K

Spacing criterion: (0-180) 1.27

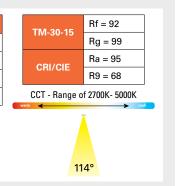
(90-270) 1.27

(Diagonal) 1.39 Beam Angle: 114°

Lumens: 2242 Input Watts: 26.2 W Efficacy: 85.6 LPW UGR: 20

Test Report: SMD12R09SWHE 3000K.IES

Zonal Lumen	Lumens	% Lumens	
0-30	595	26.5	
0-40	978	43.6	
0-60	1743	77.7	
0-90	2236	99.8	



SMD12R09SWHE*					
Nominal Lumens	ССТ	Watts	lumens	LPW	CRI
	2700K	26.5	2179	82.2	92
	3000K	26.5	2232	84.2	94
2000LM	3500K	26.5	2286	86.3	95
	4000K	26.6	2329	87.6	95
	5000K	26.6	2395	90.0	93

SMD12R09SWHE - 3000K

