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



HALO

SMD12 Series

12" Round & Square
Surface Mount Downlight

SMD12R & SMD12S

Typical Applications
Residential

Interactive Menu

- Order Information page 2
- Product Specifications page 2
- Energy Data page 3
- Photometric Data page 4
- Product Warranty
- Dimming Guide

Product Certification

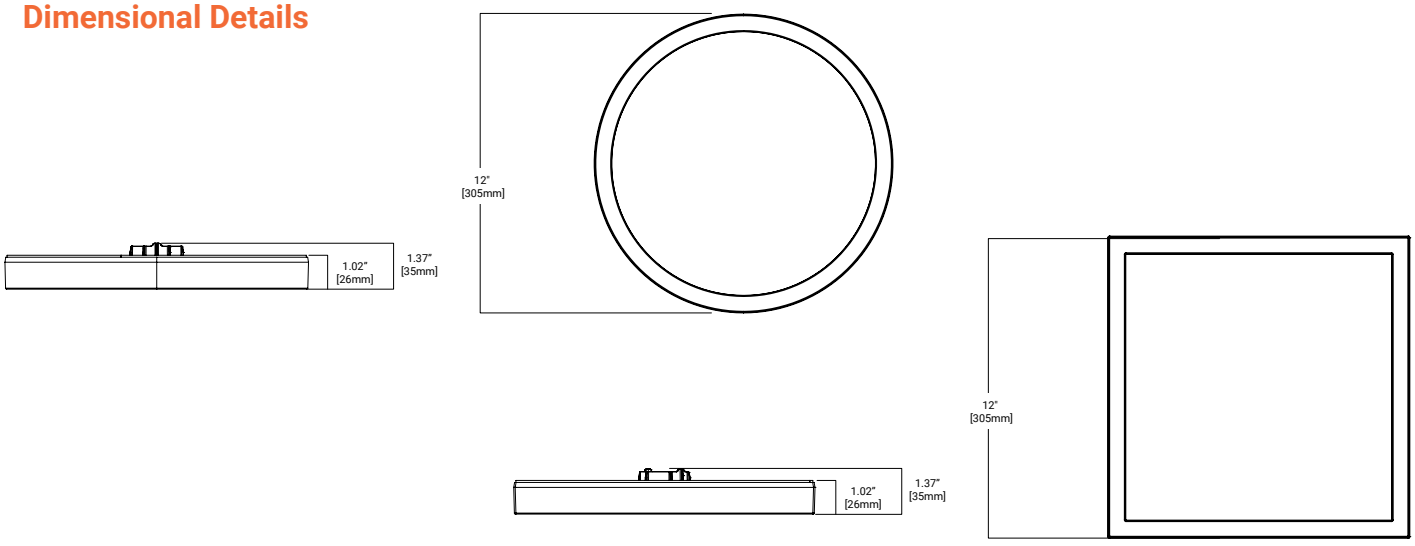
Refer to ENERGY STAR® Certified Products List.
Can be used to comply with California Title 24 High Efficacy requirements.
Certified to California Appliance Efficiency Database under JA8.

Product Features

Top Product Features

- Ultra-low profile surface luminaire with wide distribution
- Ceiling or wall mounting in compatible junction boxes
- 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

Dimensional Details



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
SMD12R = 12" Round Surface Mount Downlight **SMD12S** = 12" 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

Accessories
SMD12RTRMSN = 12" Round SMD Satin Nickel **SMD12RTRMTBZ** = 12" Round SMD Tuscan Bronze **SMD12RTRMWH** = 12" Round SMD White (paintable) **SMD12STRMSN** = 12" Square SMD Satin Nickel **SMD12STRMTBZ** = 12" Square SMD Tuscan Bronze **SMD12STRMWH** = 12" Square SMD White (paintable)



SMD12RTRMWH
round, white (paintable)



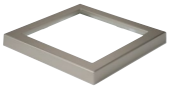
SMD12RTRMSN
round, satin nickel



SMD12RTRMTBZ
round, tuscan bronze



SMD12STRMWH
round, white (paintable)



SMD12STRMSN
round, satin nickel



SMD12STRMTBZ
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 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 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:** 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 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

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.

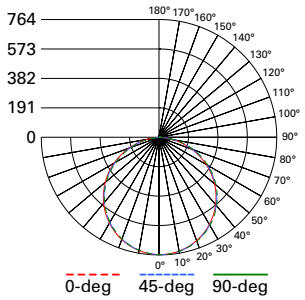
Energy Data

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	

Photometric Data

View IES files



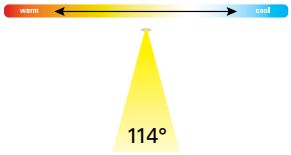
SMD12R09SWHE - 3000K

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

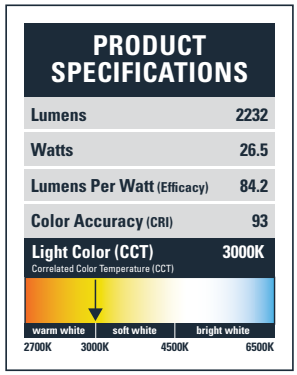
TM-30-15	Rf = 92
	Rg = 99
CRI/CIE	Ra = 95
	R9 = 68

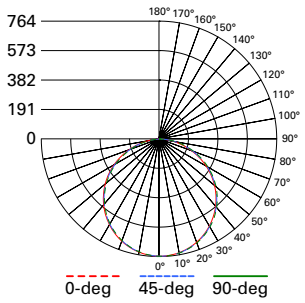
CCT - Range of 2700K- 5000K



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

SMD12R09SWHE - 3000K





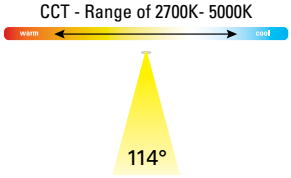
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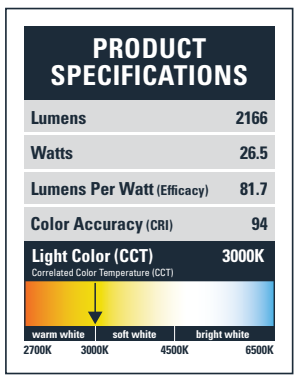
TM-30-15	Rf = 92
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CRI/CIE	Ra = 95
	R9 = 68

CCT - Range of 2700K- 5000K



SMD12S09SWHE*					
Nominal Lumens	CCT	Watts	lumens	LPW	CRI
2000LM	2700K	26.5	2132	80.5	93
	3000K	26.5	2166	81.7	94
	3500K	26.5	2206	83.2	95
	4000K	26.5	2237	84.4	95
	5000K	26.6	2277	85.6	93

SMD12S09SWHE - 3000K



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Specifications and dimensions
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