

Project		Catalog #		Type	
Prepared by		Notes		Date	



HALO

SMD12-EM

12" SMD Surface Mount
Emergency Battery Backup

Typical Applications
Light Commercial

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Product Certification



Refer to ENERGY STAR® Certified Products List.
Can be used to comply with 2015 Title 24 Part 6, Section 405.2.2.1 High Efficacy requirements.
Certified to California Appliance Efficiency Database under JAB.

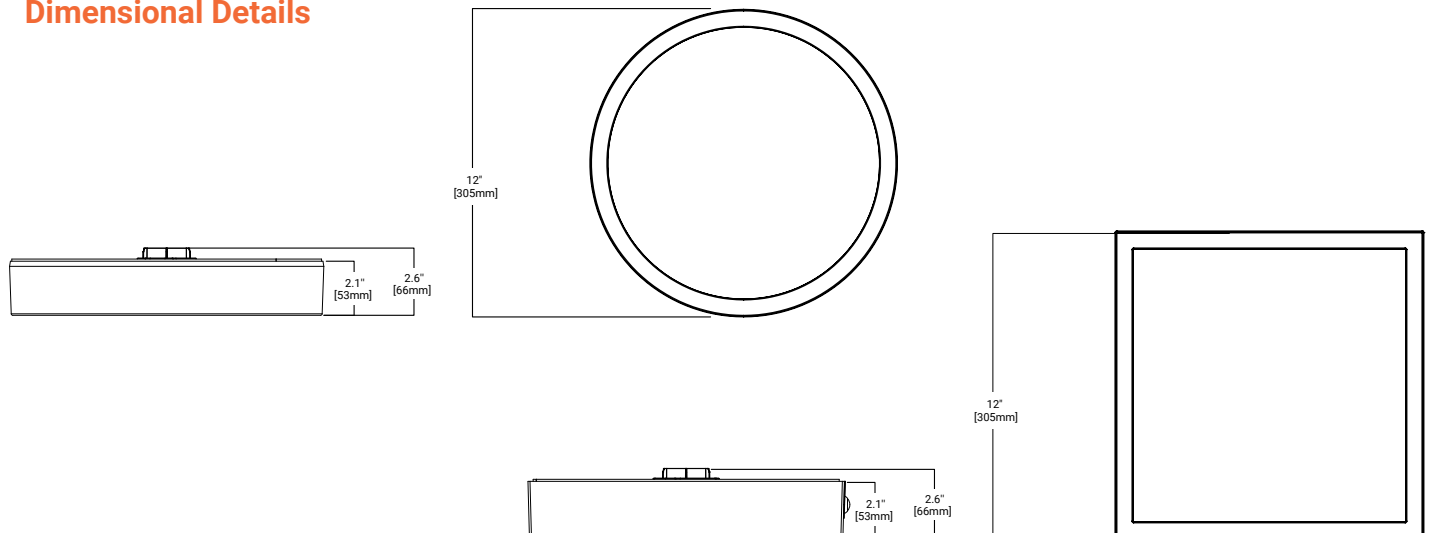
Product Features



Top Product Features

- Ceiling/wall mounting in compatible junction boxes
- Up to 2395 delivered lumens
- Select from 5 CCTs via switch: 2700K, 3000K, 3500K, 4000K, 5000K
- 120-277V input, 0-10V dimming down to 5%
- Optional designer trims in Matte White, Satin Nickel, Tuscan Bronze

Dimensional Details



Ordering Information

SAMPLE NUMBER: **SMD12R209SWHE-EM** = 12" Round Surface Mount Downlight, 2000 lumen, 90CRI, Selectable CCT, White, UNV, Emergency Battery

Junction Box Installation: Order junction box separately, as supplied by others, to complete installation.

Models	Lumens	CRI/CCT	Finish	Voltage	Battery
SMD12R = 12" Round Surface Mount Downlight SMD12S = 12" Square Surface Mount Downlight	20 = 2000 lumens (nominal)	9S = 90 CRI, field selectable 2700K, 3000K, 3500K, 4000K or 5000K CCT	WH = Matte White	E = UNV Universal 120-277V	-EM = Bodine emergency battery

Accessories

Accessories

Designer Trims

SMD12RTRMWH-EM = 12" SMD Round Battery Backup, Paintable White
SMD12RTRMSN-EM = 12" SMD Round Battery Backup, Satin Nickel
SMD12RTRMTBZ-EM = 12" SMD Round Battery Backup, Tuscan Bronze
SMD12RTRMMB-EM = 12" SMD Round Battery Backup, Matte Black
SMD12STRMWH-EM = 12" SMD Square Battery Backup, Paintable White
SMD12STRMSN-EM = 12" SMD Square Battery Backup, Satin Nickel
SMD12STRMTBZ-EM = 12" SMD Square Battery Backup, Tuscan Bronze
SMD12STRMMB-EM = 12" SMD Square Battery Backup, Matte Black

Junction Box Compatibility

***Note:** Recommended junction boxes listed below.



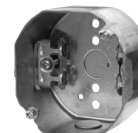
**4" octagon light fixture/fan
steel box**
 4" x 4" x 2-1/8"
 (102mm x 102mm x 54mm)



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.

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

Gaskets

- Closed cell gasket achieves restrictive airflow 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

Battery

- High-temperature, maintenance-free lithium-ion battery
- 24-hour recharge time
- When power fails, the fixture immediately switches to emergency mode

Driver

- Integrated 120-277V 50/60Hz 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

- 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

Compliance

- UL Certified in US and Canada
- Emergency Driver is UL 924 Listed and T20 Compliant
- 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
- Compliant with State of California Title 24 high efficacy luminaire compliance, reference the California Energy Commission Title 20 Appliance Efficiency Database for current listings
- Compliant with International Energy Conservation Code (IECC) and high efficiency luminaire compliance
- ENERGY STAR® listed, reference database for current listings

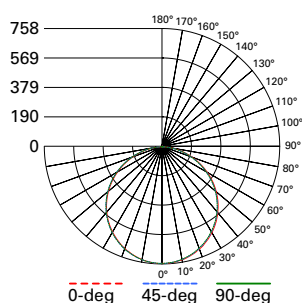
Warranty

- Five year limited warranty, consult website for details. www.cooperlighting.com/legal

Energy Data

	SMD12R209SWHE-EM		SMD12S209SWHE-EM	
Lumens (5000K models)	2255 lumens		2245 lumens	
Input Power	26.85 W	26.33 W	26.85 W	26.33 W
Input Current	228 mA @ 120V	107 mA @ 277V	228 mA @ 120V	107 mA @ 277V
Efficiency	75.9 lm/W		76.4 lm/W	
THDi	12.1%	16.5%	12.1%	16.5%
Input Voltage	120-277V		120-277V	
Frequency	50/60 Hz		50/60 Hz	
CRI	94 CRI		94 CRI	
Power Factor	0.98	0.89	0.98	0.89
T Ambient	-30 - +40°C		-30 - +40°C	
Sound Rating	Class A		Class A	

Photometric Data

 View IES files
**SMD12R209SWHE-EM - 3000K**

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

Beam Angle: 114°

Lumens: 2205

Input Watts: 29.5 W

Efficacy: 74.7 LPW

UGR: 20

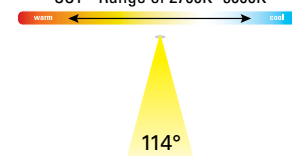
Test Report:

SMD12R209SWHE-EM - 3000K.IES

Zonal Lumen	Lumens	% Lumens
0-30	588	26.6
0-40	964	43.7
0-60	1714	77.8
0-90	2197	99.7

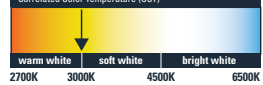
TM-30-15	Rf = 94
	Rg = 100
CRI/CIE	Ra = 95
	R9 = 65

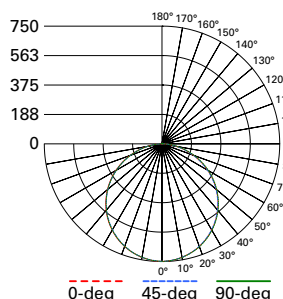
CCT - Range of 2700K- 5000K



SMD12R209SWHE-EM					
Nominal Lumens	CCT	Watts	lumens	LPW	CRI
2000LM	2700K	29.6	2190	74.0	92
	3000K	29.5	2205	74.7	94
	3500K	29.4	2220	75.5	95
	4000K	29.4	2235	76.0	95
	5000K	29.7	2255	75.9	94

SMD12R209SWHE-EM - 3000K

PRODUCT SPECIFICATIONS	
Lumens	2205
Watts	29.5
Lumens Per Watt (Efficacy)	74.7
Color Accuracy (CRI)	94
Light Color (CCT)	3000K
Correlated Color Temperature (CCT)	
	

**SMD12S209SWHE-EM - 3000K**

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

Beam Angle: 114°

Lumens: 2180

Input Watts: 29.3 W

Efficacy: 74.4 LPW

UGR: 20

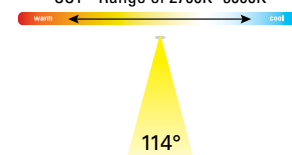
Test Report:

SMD12S209SWHE-EM - 3000K.IES

Zonal Lumen	Lumens	% Lumens
0-30	581	26.7
0-40	953	43.7
0-60	1694	77.7
0-90	2173	99.7

TM-30-15	Rf = 94
	Rg = 100
CRI/CIE	Ra = 95
	R9 = 65

CCT - Range of 2700K- 5000K



SMD12S209SWHE-EM					
Nominal Lumens	CCT	Watts	lumens	LPW	CRI
2000LM	2700K	29.3	2155	73.5	93
	3000K	29.3	2180	74.4	94
	3500K	29.2	2200	75.3	95
	4000K	29.1	2220	76.3	95
	5000K	29.4	2245	76.4	94

SMD12S209SWHE-EM - 3000K

PRODUCT SPECIFICATIONS	
Lumens	2180
Watts	29.3
Lumens Per Watt (Efficacy)	74.4
Color Accuracy (CRI)	94
Light Color (CCT)	3000K
Correlated Color Temperature (CCT)	
