

Project		Catalog #		Type	
Prepared by		Notes		Date	



HALO

SMD14-EM

14" SMD Surface Mount
Emergency Battery Backup

Typical Applications
Light Commercial

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Top Product Features

- Ceiling/wall mounting in compatible junction boxes
- Up to 2084 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

Product Certification

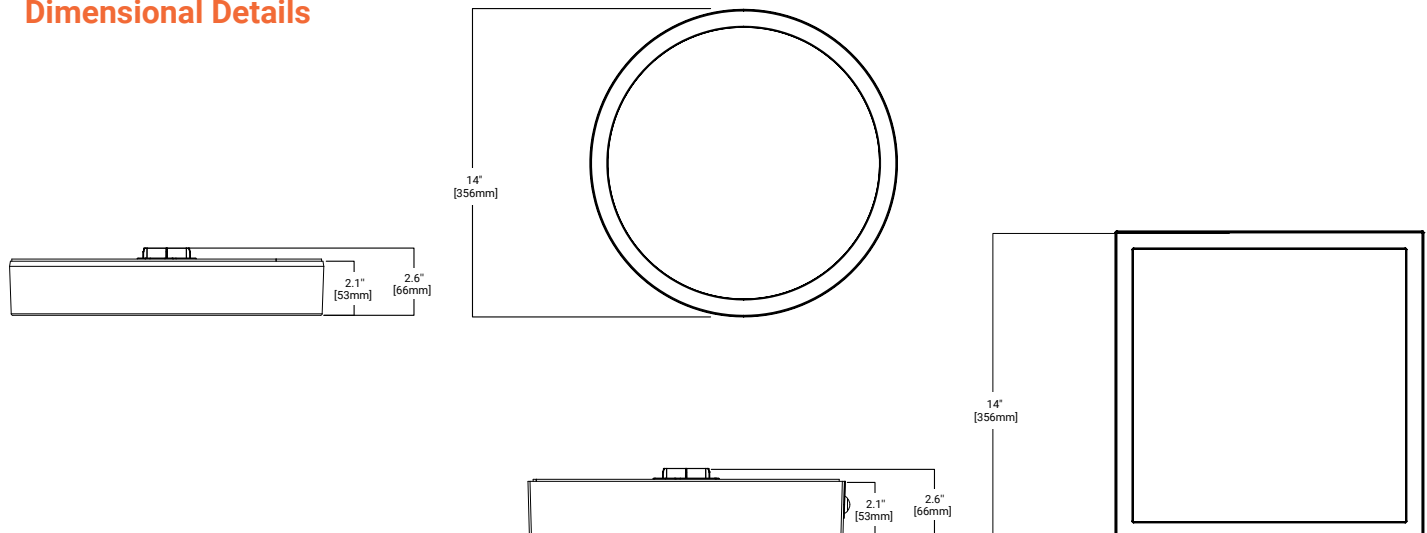


Refer to ENERGY STAR® Certified Products List.
Can be used to comply with California Title 24 High Efficacy requirements.
Certified to California Appliance Efficiency Database under JAB.

Product Features



Dimensional Details



Ordering Information

SAMPLE NUMBER: **SMD14R209SWHE-EM** = 14" 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
SMD14R = 14" Round Surface Mount Downlight 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	-EM = Bodine emergency battery

Accessories
Designer Trims SMD14RTRMWH-EM = 14" SMD Round Battery Backup, Paintable White SMD14RTRMSN-EM = 14" SMD Round Battery Backup, Satin Nickel SMD14RTRMTBZ-EM = 14" SMD Round Battery Backup, Tuscan Bronze SMD14RTRMMB-EM = 14" SMD Round Battery Backup, Matte Black SMD14STRMWH-EM = 14" SMD Square Battery Backup, Paintable White SMD14STRMSN-EM = 14" SMD Square Battery Backup, Satin Nickel SMD14STRMTBZ-EM = 14" SMD Square Battery Backup, Tuscan Bronze SMD14STRMMB-EM = 14" 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 14" 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 code

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

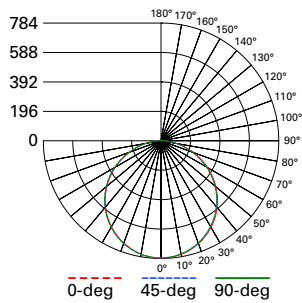
- Five year limited warranty, consult website for details. www.cooperlighting.com/legal

Energy Data

	SMD14R209SWHE-EM		SMD14S209SWHE-EM	
Lumens (5000K models)	2335 lumens		2375 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	78.9 lm/W		80.8 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



SMD14R209SWHE-EM - 3000K

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

Beam Angle: 114°
Lumens: 2280
Input Watts: 29.4 W
Efficacy: 77.6 LPW
UGR: 19

Test Report:
SMD14R209SWHE-EM - 3000K.IES

Zonal Lumen	Lumens	% Lumens
0-30	608	26.6
0-40	997	43.7
0-60	1773	77.8
0-90	2272	99.7

TM-30-15	Rf = 94
	Rg = 99
CRI/CIE	Ra = 95
	R9 = 66

CCT - Range of 2700K- 5000K

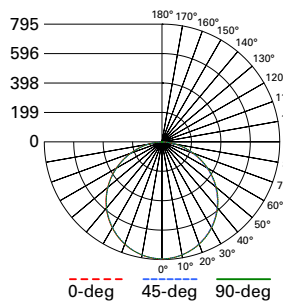


114°

SMD14R209SWHE-EM					
Nominal Lumens	CCT	Watts	lumens	LPW	CRI
2000LM	2700K	29.5	2255	76.4	93
	3000K	29.4	2280	77.6	94
	3500K	29.4	2295	78.1	95
	4000K	29.3	2310	78.8	95
	5000K	29.6	2335	78.9	94

SMD14R209SWHE-EM - 3000K

PRODUCT SPECIFICATIONS	
Lumens	2280
Watts	29.4
Lumens Per Watt (Efficacy)	77.6
Color Accuracy (CRI)	94
Light Color (CCT) Correlated Color Temperature (CCT)	3000K



SMD14S209SWHE-EM - 3000K

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

Beam Angle: 114°
Lumens: 2310
Input Watts: 29.2 W
Efficacy: 79.1 LPW
UGR: 19

Test Report:
SMD14S209SWHE-EM - 3000K.IES

Zonal Lumen	Lumens	% Lumens
0-30	616	26.7
0-40	1010	43.7
0-60	1795	77.7
0-90	2303	99.7

TM-30-15	Rf = 94
	Rg = 99
CRI/CIE	Ra = 95
	R9 = 66

CCT - Range of 2700K- 5000K



114°

SMD14S209SWHE-EM					
Nominal Lumens	CCT	Watts	lumens	LPW	CRI
2000LM	2700K	29.3	2290	78.2	93
	3000K	29.2	2310	79.1	94
	3500K	29.1	2340	80.4	95
	4000K	29.1	2350	80.8	95
	5000K	29.4	2375	80.8	94

SMD14S209SWHE-EM - 3000K

PRODUCT SPECIFICATIONS	
Lumens	2310
Watts	29.2
Lumens Per Watt (Efficacy)	79.1
Color Accuracy (CRI)	94
Light Color (CCT) Correlated Color Temperature (CCT)	3000K