

Project		Catalog #		Type	
Prepared by		Notes		Date	



HALO

SMD6-EM

6" SMD Surface Mount
Emergency Battery Backup

Typical Applications

Residential • Light Commercial

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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.

Product Features

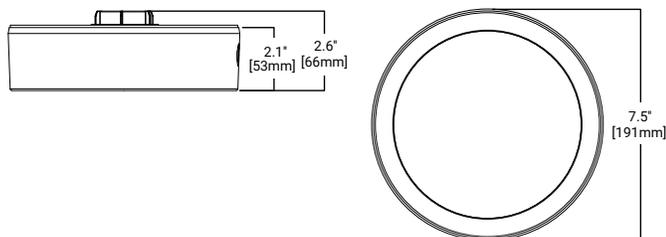


Top Product Features

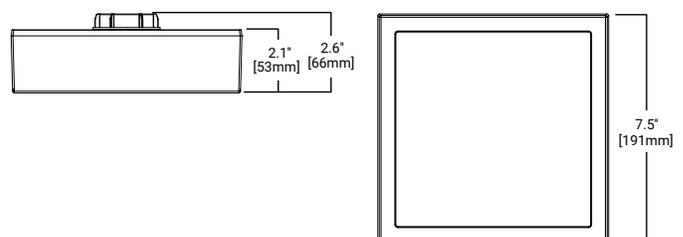
- Ceiling/wall mounting in compatible junction boxes
- Option for 600 or 1200 lumen series (UNV is 1200lm only)
- Select from 5 CCTs via switch: 2700K, 3000K, 3500K, 4000K, 5000K
- Option for phase cut or 0-10V dimming down to 5%
- Optional designer trims in Matte White, Satin Nickel, Tuscan Bronze

Dimensional and Mounting Details

SMD6RXXXWH-EM



SMD6SXXXWH-EM



Ordering Information

SAMPLE NUMBER: **SMD6R129SWHE-EM** = 6" Round Surface Mount Downlight, 1200 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
Models	Lumens	CRI/CCT	Finish	Voltage	Battery
SMD6R = 6" Round Surface Mount Downlight SMD6S = 6" Square Surface Mount Downlight	6 = 600 lumens (nominal) 12 = 1200 lumens (nominal)	9S = 90 CRI, field selectable 2700K, 3000K, 3500K, 4000K, 5000K CCT	WH = Matte White	Blank = 120V standard E = UNV Universal 120-277V ⁽¹⁾	-EM = Bodine emergency battery
Notes	Notes	Notes	Notes	Notes (1) UNV voltage only available in 1200lm	

Accessories

Accessories
<p>Designer Trims SMD6RTRMWH-EM = 6" SMD Round Battery Backup, Paintable White SMD6RTRMSN-EM = 6" SMD Round Battery Backup, Satin Nickel SMD6RTRMTBZ-EM = 6" SMD Round Battery Backup, Tuscan Bronze SMD6RTRMMB-EM = 6" SMD Round Battery Backup, Matte Black SMD6STRMWH-EM = 6" SMD Square Battery Backup, Paintable White SMD6STRMSN-EM = 6" SMD Square Battery Backup, Satin Nickel SMD6STRMTBZ-EM = 6" SMD Square Battery Backup, Tuscan Bronze SMD6STRMMB-EM = 6" SMD Square Battery Backup, Matte Black</p>
Notes

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)



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

SMD 120V

- Integral 120V 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.)

SMD 120-277V

- Integrated 120-277V 50/60Hz constant current driver provides noise free operation
- SMD Universal Voltage (120-277V) configurations are recommended for use with compatible 0-10V DC low voltage dimmers only
- SMD Universal Voltage (120-277V) available only in the 1200lm series

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

SMD6R69SWH-EM SMD6S69SWH-EM

	Round	Square
Lumens	720	605
Input Power	12.6 W	10.5 W
Input Current	0.076 A	0.076 A
Efficiency	57.1 lm/W	57.6 lm/W
THDi	15.7%	
Input Voltage	120V	
Frequency	60 Hz	
CRI	90 CRI	
Power Factor	0.95	
T Ambient	0° - +40°C	
Sound Rating	Class A	

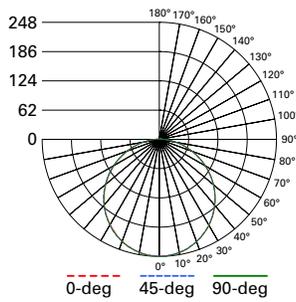
SMD6R129SWH-EM SMD6S129SWH-EM

	Round	Square
Lumens	1140	1100
Input Power	18.0 W	18.4 W
Input Current	0.126 A	0.126 A
Efficiency	63.3 lm/W	59.8 lm/W
THDi	12.4%	
Input Voltage	120V	
Frequency	60 Hz	
CRI	90 CRI	
Power Factor	0.98	
T Ambient	0° - +40°C	
Sound Rating	Class A	

SMD6R129SWHE-EM SMD6S129SWHE-EM

	Round	Square
Lumens	1220	1140
Input Power	18.1 W	18.3 W
Input Current	0.125 A	0.125 A
Efficiency	67.4 lm/W	62.3 lm/W
THDi	14%	
Input Voltage	120-277V	
Frequency	50/60 Hz	
CRI	90 CRI	
Power Factor	0.98	
T Ambient	0° - +40°C	
Sound Rating	Class A	

Photometric Data

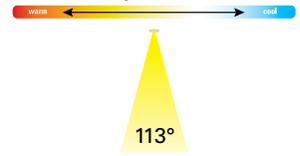


SMD6R69SWH-EM - 3000K
 Spacing criterion: (0-180) 1.25
 (90-270) 1.26
 (Diagonal) 1.38
 Beam Angle: 113°
 Lumens: 720
 Input Watts: 12.6 W
 Efficacy: 57.1 LPW
 UGR: 20
 Test Report:
 SMD6R69SWH-EM - 3000K.ies

Zonal Lumen	Lumens	% Lumens
0-30	192	26.7
0-40	315	43.7
0-60	559	77.6
0-90	718	99.8

TM-30-15	Rf = 91
	Rg = 98
CRI/CIE	Ra = 95
	R9 = 73

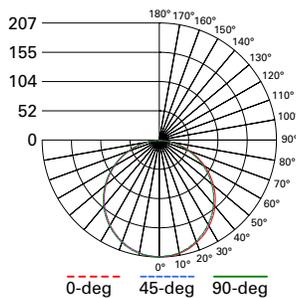
CCT - Range of 2700K- 5000K



SMD6R69SWH-EM	CCT	Watts	Lumens	LPW	CRI
600 Lumen 6" Round Selectable CCT 120V	2700K	12.6	710	56.3	91
	3000K	12.6	720	57.1	92
	3500K	12.6	725	57.5	94
	4000K	12.6	735	58.3	94
	5000K	12.7	750	59.1	94

PRODUCT SPECIFICATIONS

Lumens	720
Watts	12.6
Lumens Per Watt (Efficacy)	57.1
Color Accuracy (CRI)	92
Light Color (CCT) <small>Correlated Color Temperature (CCT)</small>	3000K

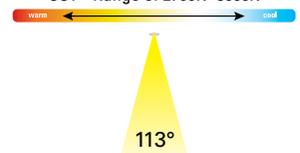


SMD6S69SWH-EM - 3000K
 Spacing criterion: (0-180) 1.26
 (90-270) 1.25
 (Diagonal) 1.38
 Beam Angle: 113°
 Lumens: 605
 Input Watts: 10.5 W
 Efficacy: 57.6 LPW
 UGR: 20
 Test Report:
 SMD6S69SWH-EM - 3000K.IES

Zonal Lumen	Lumens	% Lumens
0-30	161	26.6
0-40	263	43.5
0-60	468	77.3
0-90	603	99.7

TM-30-15	Rf = 91
	Rg = 98
CRI/CIE	Ra = 95
	R9 = 73

CCT - Range of 2700K- 5000K

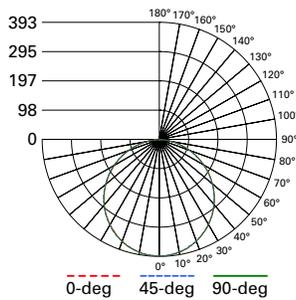


SMD6S129SWHE	CCT	Watts	Lumens	LPW	CRI
600 Lumen 6" Square Selectable CCT 120V	2700K	10.5	595	56.7	91
	3000K	10.5	605	57.6	93
	3500K	10.4	610	58.7	94
	4000K	10.4	620	88.5	94
	5000K	10.5	625	59.5	94

PRODUCT SPECIFICATIONS

Lumens	605
Watts	10.5
Lumens Per Watt (Efficacy)	57.6
Color Accuracy (CRI)	93
Light Color (CCT) <small>Correlated Color Temperature (CCT)</small>	3000K

Photometric Data



SMD6R129SWH-EM - 3000K
 Spacing criterion: (0-180) 1.25
 (90-270) 1.26
 (Diagonal) 1.38
 Beam Angle: 113°
 Lumens: 1140
 Input Watts: 18 W
 Efficacy: 63.3 LPW
 UGR: 20
 Test Report:
 SMD6R129SWH-EM - 3000K.ies

Zonal Lumen	Lumens	% Lumens
0-30	304	26.7
0-40	498	43.7
0-60	885	77.6
0-90	1137	99.8

TM-30-15	Rf = 91
	Rg = 98
CRI/CIE	Ra = 93
	R9 = 72

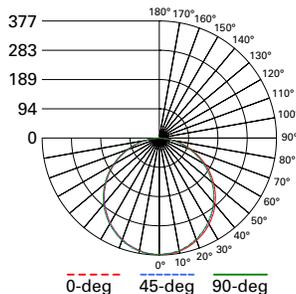
CCT - Range of 2700K- 5000K



SMD6R69SWH-EM	CCT	Watts	Lumens	LPW	CRI
1200 Lumen 6" Round Selectable CCT 120V	2700K	18.0	1125	63.4	91
	3000K	18.0	1140	63.3	93
	3500K	18.0	1155	64.2	94
	4000K	18.0	1170	65.0	94
	5000K	18.2	1195	65.7	94

PRODUCT SPECIFICATIONS

Lumens	1140
Watts	18.0
Lumens Per Watt (Efficacy)	63.3
Color Accuracy (CRI)	93
Light Color (CCT) Correlated Color Temperature (CCT)	3000K
warm white	soft white
2700K	3000K
4500K	6500K

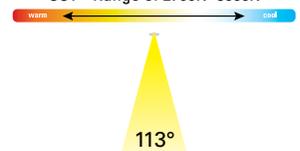


SMD6S129SWH-EM - 3000K
 Spacing criterion: (0-180) 1.26
 (90-270) 1.26
 (Diagonal) 1.40
 Beam Angle: 113°
 Lumens: 1100
 Input Watts: 18.4 W
 Efficacy: 59.8 LPW
 UGR: 20
 Test Report:
 SMD6S129SWH-EM - 3000K.IES

Zonal Lumen	Lumens	% Lumens
0-30	292	26.6
0-40	479	43.5
0-60	851	77.3
0-90	1097	99.7

TM-30-15	Rf = 91
	Rg = 98
CRI/CIE	Ra = 93
	R9 = 72

CCT - Range of 2700K- 5000K

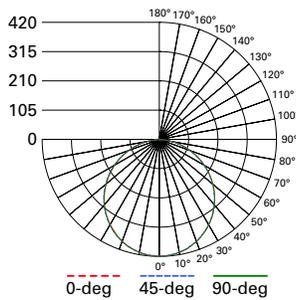


SMD6S129SWHE	CCT	Watts	Lumens	LPW	CRI
1200 Lumen 6" Square Selectable CCT 120V	2700K	18.4	1090	59.2	91
	3000K	18.4	1100	59.8	93
	3500K	18.4	1115	60.6	94
	4000K	18.4	1130	61.4	94
	5000K	18.5	1150	62.2	94

PRODUCT SPECIFICATIONS

Lumens	1100
Watts	18.4
Lumens Per Watt (Efficacy)	59.8
Color Accuracy (CRI)	93
Light Color (CCT) Correlated Color Temperature (CCT)	3000K
warm white	soft white
2700K	3000K
4500K	6500K

Photometric Data

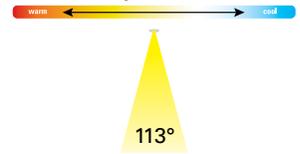


SMD6R129SWHE-EM - 3000K
 Spacing criterion: (0-180) 1.25
 (90-270) 1.26
 (Diagonal) 1.38
 Beam Angle: 113°
 Lumens: 1220
 Input Watts: 18.1 W
 Efficacy: 67.4 LPW
 UGR: 20
 Test Report:
 SMD6R129SWHE-EM - 3000K.ies

Zonal Lumen	Lumens	% Lumens
0-30	326	26.7
0-40	533	43.7
0-60	947	77.6
0-90	1217	99.8

TM-30-15	Rf = 94
	Rg = 100
CRI/CIE	Ra = 96
	R9 = 66

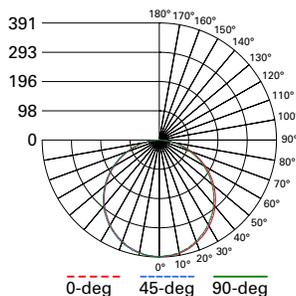
CCT - Range of 2700K- 5000K



SMD6R69SWH-EM	CCT	Watts	Lumens	LPW	CRI
1200 Lumen 6" Round Selectable CCT 120-277V	2700K	18.1	1180	65.2	93
	3000K	18.1	1220	67.4	94
	3500K	18.0	1260	70.0	94
	4000K	18.0	1295	71.9	94
	5000K	18.1	1370	75.7	94

PRODUCT SPECIFICATIONS

Lumens	1220
Watts	18.1
Lumens Per Watt (Efficacy)	67.4
Color Accuracy (CRI)	94
Light Color (CCT)	3000K
Correlated Color Temperature (CCT)	
warm white	soft white
2700K	3000K
4500K	6500K

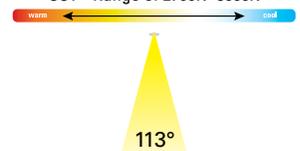


SMD6S129SWHE-EM - 3000K
 Spacing criterion: (0-180) 1.26
 (90-270) 1.25
 (Diagonal) 1.38
 Beam Angle: 113°
 Lumens: 1140
 Input Watts: 18.3 W
 Efficacy: 62.3 LPW
 UGR: 20
 Test Report:
 SMD6S129SWHE-EM - 3000K.IES

Zonal Lumen	Lumens	% Lumens
0-30	303	26.6
0-40	496	43.5
0-60	882	77.3
0-90	1137	99.7

TM-30-15	Rf = 94
	Rg = 100
CRI/CIE	Ra = 96
	R9 = 66

CCT - Range of 2700K- 5000K



SMD6S129SWHE	CCT	Watts	Lumens	LPW	CRI
1200 Lumen 6" Square Selectable CCT 120-277V	2700K	18.4	1105	60.1	93
	3000K	18.3	1140	62.3	94
	3500K	18.3	1175	64.2	94
	4000K	18.2	1215	66.8	94
	5000K	18.4	1275	69.3	94

PRODUCT SPECIFICATIONS

Lumens	1140
Watts	18.3
Lumens Per Watt (Efficacy)	62.3
Color Accuracy (CRI)	94
Light Color (CCT)	3000K
Correlated Color Temperature (CCT)	
warm white	soft white
2700K	3000K
4500K	6500K