DESCRIPTION

The Halo Surface Mount LED Downlight (SMD) is an low profile surface mounting luminaire with a modern look and high performance. SMD6 (6") is designed for installation in many 3-1/2" and 4" square, octagon, or round junction boxes. Supply wire adapter with LED quick wiring connector included. The SMD6 may also retrofit in 5" and 6" aperture IC and Non-IC recessed housings. Compliant with NFPA $^\circ$ 70, NEC $^\circ$ Section 410.16 (A)(3) and 410.16 (C)(5).

SPECIFICATION FEATURES

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

I FD

- · 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

- Integral 120V 50/60Hz 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.)
- Inline electrical quick connect and E26 adapter (provided) provides mains connections.

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.
- Surface mounting in a fire-rated ceiling using an appropriate fire rated electrical box . Note: Fire-rating is per the rating of the ceiling and applicable
- junction box, not the SMD. 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

- May be installed in IC recessed housings in direct contact with insulation
- Note: Not for use in recessed housing in direct contact with spray foam insulation. Refer to NEMA LSD 57-2013.
- Torsion Spring 5" & 6" · Precision formed torsion spring
- bracket kit included · The torsion springs adjust on the mounting plate to fit 5" or 6" compatible housings

Friction Blade 5" & 6"

- Precision formed friction blades included For retrofit in 5" and 6" housings
- without torsion springs mounting tabs
- · Friction blade design allows the SMD to be installed in any position within the housing aperture (360 degrees)

Type Catalog # Project Date Comments Prepared by



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

WARRANTY

· Five year limited warranty, consult website for details. www.eaton.com/lighting/legal

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.
- RECESSED HOUSING MOUNTING 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



6 inch Round and Square

SMD6R SMD6S

HALO

6" Surface Mount Downlight

Suitable for ceiling or wall electrical junction boxes

Suitable for 5" and 6" recessed housing retrofit

> Non-conductive **Dead Front**





Certified to California Appliance Efficiency Datab









under IA8

SMD6 Series

ENERGY DATA

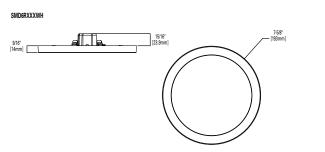
SMD6R6 SMD6S6

Round	Square
788	815
9.6 W	9.9 W
0.0811 A	0.085 A
82 lm/W	82 lm/W
13.9	14.7
12	:0V
50/6	i0 Hz
90	CRI
0.	99
-30 -	+40°C
Clas	ss A
	788 9.6 W 0.0811 A 82 lm/W 13.9 12 50/6 90 0. -30 -

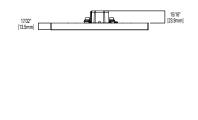
SMD6S12	6S12		
	Round	Square	
Lumens (5000K models)	1252	1235	
Input Power	15.3	15.7	
Input Current	0.133 A	0.132 A	
Efficiency	82 lm/W	79 lm/W	
THD	15.3	15.7	
Input Voltage	12	.OV	
Frequency	50/6	i0 Hz	
CRI	92	CRI	
Power Factor	0.98		
T Ambient	-30	+40°C	
Sound Rating	Clas	ss A	

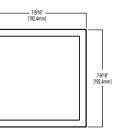
SMD6R12

DIMENSIONS



SMD6SXXXWH





HE26LED E26 Screw base adapter for retrofit (included)

T24HWKIT

ORDERING INFORMATION

SAMPLE NUMBER: SMD6R6930WH=6" Round Surface Mount Downlight, 90CRI, 3000K Junction Box Installation: Order junction box separately, as supplied by others, to complete installation. Recessed Installation: Order Halo recessed housing separately to complete installation.

SMD6R= 6" Round Surface Mount Downlight, 120V 6–600 lumen series 927=90CRI, 2700K WH= Matte White Designer Trims SMD6S= 6" Square Surface Mount Downlight, 120V 12=1200 lumen series 927=90CRI, 3000K 935=90CRI, 3000K SMD6RTRMSN=6" Round SMD Satin Nickel SMD6S= 6" Square Surface Mount Downlight, 120V 12=1200 lumen series 927=90CRI, 3000K 935=90CRI, 3000K SMD6RTRMSN=6" Round SMD Satin Nickel SMD6RTRMWH=6" Round SMD Tuscan Bronze SMD6RTRMWH=6" Round SMD Tuscan Bronze SMD6STRMSN=6" Square SMD Satin Nickel SMD6STRMSD=6" Square SMD Tuscan Bronze SMD6STRMTBZ=6" Square SMD Tuscan Bronze SMD6STRMWH=6" Square SMD Tuscan Bronze SMD6STRMWH=6" Square SMD Tuscan Bronze SMD6STRMWH=6" Square SMD Tuscan Bronze SMD6STRMWH=6" Square SMD White (paintable) T24HWKIT= Title 24 Cable harness kit used to convert incandescent and low voltage housings to LED UP	Models	Lumens	CRI / CCT	Finish	Accessories
HEZOLEDE EZO SCHEW DASE adapter for retroint (included)			930=90CRI, 3000K 935=90CRI, 3500K 940=90CRI, 4000K	WH= Matte White	SMD6RTRMSN=6" Round SMD Satin Nickel SMD6RTRMTBZ=6" Round SMD Tuscan Bronze SMD6RTRMWH=6" Round SMD White (paintable) SMD6STRMSN=6" Square SMD Satin Nickel SMD6STRMTBZ=6" Square SMD Tuscan Bronze SMD6STRMTBZ=6" Square SMD Tuscan Bronze SMD6STRMWH=6" Square SMD Tuscan Bronze SMD6STRMWH=6" Square SMD Tuscan Bronze SMD6STRMWH=6" Square SMD White (paintable) T24HWKIT= Title 24 Cable harness kit used to convert

ACCESSORIES

Designer Trims

Powering Business Worldwide



HOUSING COMPATIBILITY

The SMD6 is UL Certified in Halo recessed housings and for use with <u>any</u> 5 or 6 inch diameter recessed housing constructed of steel or aluminum with an internal volume that exceeds 107.9 in3 in addition to those noted below. **Note:** Some other's housings require installation with included friction clips.

Compatible Halo LED Housings with LED luminaire connector (high-efficacy compliant)			
	Recessed Can Size	Catalog Number	
HALO	5"	H550ICAT, H550RICAT, E550ICAT, E550RICAT	
LED	6"	H750ICAT, H750RICAT, H750T, H750RINTD010, H750TCP, H2750ICAT, H2750RICAT, E750ICAT, E750RICAT	
Halo LED Retrofi	t Enclosures	·	

Compatible Halo	Compatible Halo Incandescent E26 Screwbase Housings			
	5"	H5ICAT, H5RICAT, H5ICATNB, H5T, H5RT, H25ICAT, H25ICATNB, E5TAT, E5RTAT, H5TNB, E5TATNB, E5ICAT, E5RICAT, E5ICATNB		
HALO	6"	H7ICAT, H7RICAT, H7ICT, H7RICT, H7ICATNB, H7ICTNB, H7T, H7RT, H7TNB, H7TCP, H7UICT, H7UICAT, H27ICAT, H27RICAT, H27T, H27RT, E7ICAT, E7RICAT, E27ICAT, E27RICAT, E7ICATNB, E7TAT, E7RTAT, E7TATNB, E27TAT, E27RTAT		

COMPATIBLE WITH EATON'S CROUSE-HINDS JUNCTION BOXES

6"



HALO

TP316 for non-metallic cable 4" x 4" x 2-1/8" (102mm x 102mm x 54mm)



ML7BXRFK, ML7E26RFK

TP317 for metal clad cable 4" x 4" x 2-1/8" (102mm x 102mm x 54mm)

- •TP316 for non-metallic cable
- •TP317 for metal clad cable
- UL Listed
- Suitable for two-hour fire-rated ANSI/UL 263 when properly installed in a fire-rated ceiling or wall
- Refer to www.crouse-hinds.com

COMPATIBLE WITH MANY OTHER JUNCTION BOXES*



4" octagon light fixture/fan steel box 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)





4" octagon steel box 4" x 4" x 1-1/2" (102mm x 102mm x 38mm)



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)



4" square deep steel box 4" x 4" x 2-1/8" (102mm x 102mm x 54mm)



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)

Surface mounting in a fire-rated ceiling using an appropriate electrical box offers a cost-effective alternative to fire-rated recessed housings. **Note:** Fire-rating is per the rating of the ceiling and applicable junction box, not the SMD.

*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. Eaton 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.



4" square standard steel box 4" x 4" x 1-1/2" (102mm x 102mm x 38mm)



4" round surface mount box 4" diameter x 1-1/2" (102mm x 38mm)

Requires SLD6RAD adapter

PHOTOMETRIC DATA - SMD6

SMD6R6927WH			
Luminair	Luminaire lumens		
Input	watts	9.4	
LER (LPW)	80	
	0-180	1.26	
Spacing Criteria	90-270	1.26	
ontonia	Diagonal	1.38	
Beam angl	e (degrees)	112	
Field angle	e (degrees)	162	
Max. C	andela	264	
Zonal lumen	Lumens	% Lumens	
0-30	204	27.2%	
0-40	334	44.5%	
0-60	590	78.6%	
0-90	750	100.00%	

S	MD6S6927W	/H			
Luminair	Luminaire lumens 750				
Input	10.0				
LER (LPW)	75			
• • •	0-180	1.24			
Spacing Criteria	90-270	1.24			
ontonia	Diagonal	1.36			
Beam angl	e (degrees)	112			
Field angle	e (degrees)	162			
Max. C	andela	271			
Zonal lumen	Lumens	% Lumens			
0-30	207	27.6%			
0-30	207	27.6%			
0-30 0-40	207 337	27.6% 44.9%			

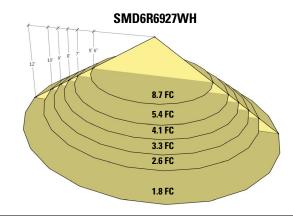
Cat. No.	CRI	CCT	Lumens	Power (W)	LPW
SMD6R6927WH	93	2700	754	9.6	78.5
SMD6R6930WH	92	3000	758	9.6	78.7
SMD6R6935WH	95	3500	740	9.6	77.0
SMD6R6940WH	94	4000	792	9.8	80.5
SMD6R6950WH	92	5000	788	9.6	81.9
SMD6S6927WH	92	2700	750	10.0	75.0
SMD6S6930WH	92	3000	790	9.9	79.8
SMD6S6935WH	93	3500	740	10.0	74.0
SMD6S6940WH	92	4000	760	10.3	73.8
SMD6S6950WH	90	5000	815	9.9	82.3

		alues at Nadir ming Angle	
DD (FT)	SMD6R6927WH (FC)	SMD6S6927WH (FC)	DIA (FT)
5.5	8.7	9.0	16.3
7	5.4	5.5	20.9
8	4.1	4.2	23.8
9	3.3	3.3	26.8
10	2.6	2.7	29.7
12	1.8	1.9	35.7

DD = distance down to illuminated work plane

FC = initial foot-candles at nadir

DIA = diameter



Multiplier Table					
CCT Option	2700K	3000K	3500K	4000K	5000K
CCT Multipiler	1.00	1.014	1.042	1.083	1.083

FAT•	
Powering Bus	siness Worldwide

PHOTOMETRIC DATA - SMD6-1200

SMD6S12927WH			
Luminaire lumens 1187			
Input watts		15.9	
LER (LPW)	75	
a :	0-180	1.26	
Spacing Criteria	90-270	1.26	
ontonia	Diagonal	1.38	
Beam angl	e (degrees)	113	
Field angle	e (degrees)	165	
Max. C	andela	408	
Zonal lumen	Lumens	% Lumens	
0-30	316	26.6%	
0-40	518	43.7%	
0-40 0-60	518 920	43.7% 77.5%	

S	MD6R12927V	VH	
Luminair	1235		
Input watts		15.9	
LER (78		
Spacing Criteria	0-180	1.26	
	90-270	1.26	
ontonia	Diagonal	1.38	
Beam angl	Beam angle (degrees)		
Field angle (degrees)		164	
Max. Candela		426	
Zonal lumen	Lumens	% Lumens	
0-30	336	27.2%	
		44.5%	
0-40	550	44.5%	
0-40 0-60	550 971	44.5% 78.6%	

Cat. No.	CRI	ССТ	Lumens	Power (W)	LPW
SMD6R12927WH	92	2700	1244	15.7	79.0
SMD6R12930WH	92	3000	1242.0	15.1	82.1
SMD6R12935WH	92	3500	1264.1	15.3	82.8
SMD6R12940WH	92	4000	1223.0	15.3	79.9
SMD6R12950WH	92	5000	1252.0	15.3	81.9
SMD6S12927WH	92	2700	1190	15.7	76.0
SMD6S12930WH	92	3000	1180.3	15.6	75.6
SMD6S12935WH	92	3500	1237.3	15.6	79.5
SMD6S12940WH	92	4000	1215.9	15.8	76.9
SMD6S12950WH	92	5000	1235.6	15.7	78.9

Foot-candle Values at Nadir 0 degree Aiming Angle				
DD (FT)	SMD6R12927WH (FC)	SMD6S12927WH (FC)	DIA (FT)	
5.5	15.8	15.1	16.6	
7	9.5	9.1	21.1	
8	7.2	6.9	24.2	
9	5.6	5.4	27.2	
10	4.5	4.3	30.2	
12	3.1	3.0	36.2	

DD = distance down to illuminated work plane

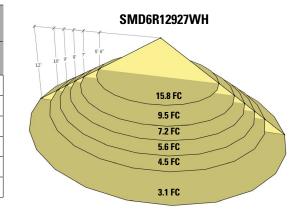
FC = initial foot-candles at nadir

DIA = diameter



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Specifications and dimensions subject to change without notice.



Multiplier Table					
CCT Option	2700K	3000K	3500K	4000K	5000K
CCT Multipiler	1.000	0.997	1.039	1.021	1.037