DESCRIPTION

The Halo Surface LED Downlight (SLD) incorporates WaveStream™ technology to create an ultra-low profile surface mounting luminaire with the performance and look of a traditional downlight. SLD6 is designed for installation in many 3-1/2" and 4" square, octagon or round junction boxes. And may also retrofit in 5" and 6" IC and Non-IC recessed housings.* Suitable for residential or commercial installations. Ideal for closets, storage areas, attics and basements. Compliant with NFPA® 70, NEC® Section 410.16 (A)(3) and 410.16 (C)(5).

SPECIFICATION FEATURES

CONSTRUCTION

• Die cast aluminum trim ring, and die formed aluminum frame

OPTICS

- WaveStream[™] technology provides uniform luminance from a low profile flat lens
- AccuAim[™] optics provide directional control for the "cone-of-light" beam distribution of a traditional downlight.
- Precision molded lens features high transmission polymer with UV stabilized protecting film

DESIGNER TRIMS

Accessories (sold separately) SLD designer trims are accessory rings that attach to the SLD for a permanent finish.* Refer to SLD accessories specification sheet for details.

- White (Paintable)
- Satin Nickel
- Tuscan Bronze
- *SLD accessory trims attach with permanent adhesion and are not interchangeable after installation.

ELECTRICAL JUNCTION BOX MOUNTING

- SLD 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: Driver consumes 3 cubic inches of junction box

 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 codes.

• Proprietary Slot-N-Lock quick installation system for junction box installation

Catalog #

Project

Comments

Prepared by

LED CHROMATICITY

Index (CRI) and Correlated

the useful life of the LED

exceeds ENERGY STAR®

color standards per ANSI.

• 90 CRI model features high

greater than 50

over time

Junction Box

color performance with R9

Every Halo LED is quality tested,

measured, and serialized in a

permanent record to register

lumens, wattage, CRI and CCT.

• Halo LED serialized testing and

measurement ensures color

and lumen consistency on a

per-unit basis, and validates

ELECTRICAL CONNECTIONS

boxes recommended)

Recessed Housings

Series LED Housings

The included E26 Edison

capability for retrofit*

• LED connector is a non-

for tool-less installation

auick connector included

long-term product consistency

• Compatible with 3-1/2" x 2" and

4" x 1-1/2" deep round, square

• Supply Wire Adapter with LED

and octagon boxes (2-1/8" deep

LED connector is compatible with

• LED Connector meets California

standard as a non-screw base

screw-base adapter provides

screwbase luminaire disconnect

Title-24 high-efficacy luminaire

Halo 5" H550 Series and 6" H750

• LED chromaticity of 3 SDCM

ColorTemperature (CCT) over

• T-bracket with Slot-N-Lock mounting tabs included

RECESSED HOUSING MOUNTING

- May be installed in IC recessed housings in direct contact with insulation
- * Note: Not for use in recessed housings in direct contact with spray foam insulation. Refer to NEMA LSD 57-2013
- Torsion Spring 5" & 6"
- · Optional precision formed torsion spring bracket kit is included
- The torsion springs adjust on the frame to fit 5" or 6" compatible housings
- Friction Blade 5" & 6"
- Optional precision formed friction blades included
- For retrofit in 5" and 6" housings without torsion spring mounting tabs
- Friction blade design allows the SLD to be installed in any position within the housing aperture (360 degrees)

LED

- Linear LED arrays are
- integrated in trim perimeter
- ColorTemperature: 2700K, 3000K, 3500K, 4000K
- CRI options: 80 and 90 90 CRI can be used for California Title 24 compliance/ certified to Title 20
 - 80 CRI can be used to comply with California Title 24 Non-**Residential Lighting Controls** as a LED luminaire.

WARRANTY

Eaton provides a five year limited warranty on the SLD LED



Refer to ENERGY STAR® Certified Products List.

IECC







Can be used to comply with California Title 24 High Efficacy requirements. Certified to California Appliance Efficiency Database under JA8. Indoor LED nominal CCT of 4000K or less.



SLD 1200 Series SLD6128xxWH

80CRI 2700K, 3000K, 3500K, and 4000K

SLD6129xxWH

90CRI 2700K, 3000K, 3500K, and 4000K

> 6" Surface LED Downlight

High Lumen 1200 Series

Suitable for ceiling or wall electrical junction boxes

Suitable for 5" & 6" recessed housing retrofit (IC, Non-IC & AIR-TITE[™])

ENERGY DATA

80 CRI	90 CRI
<mark>1215</mark>	1000
120V	120V
50/60 Hz	50/60 Hz
0.12 A	0.12 A
14.8 W	14.8 W
82 lm/W	68 lm/W
≤ 20%	
≥ 0.90	
-30 - +40°	C
Class A	
	1215 120V 50/60 HZ 0.12 Å 14.8 W 82 Im/W ≤ 20% ≥ 0.90 -30 - +40°

NOMENCLATURE

SLD612830WH

612 = 6" SLD 1200 Series

8 = >80 CRI

30 = 3000K

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WH = Matte White
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ering Business Worldwide

Efficiency Standards

HALO

Туре

LED DRIVER

- Driver is a 120V input, high efficiency, dimmable electronic power supply providing DC power to the LED arrays
- Driver features high power factor, low THD, and has integral thermal protection in the event of over temperature or internal failure
- Driver is replaceable if it should be required

DIMMING

• Designed for continuous dimming • May be installed in IC recessed capability to nominally 5% with many 120V Leading Edge (LE) and Trailing Edge (TE) phase control 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.)

DIMENSIONS



COMPLIANCE

- cULus Listed ceiling and wall • cULus Damp Location listed
- ceiling and wall cULus Wet Location Listed, ceiling only (shower rated)
- · Suitable for use in closets, compliant with NFPA® 70, NEC® Section 410.16 (A)(3) and 410.16 (C)(5)
- · SLD may be used in compatible electrical junction boxes in direct contact with insulation including
- housings in direct contact with housings in direct contact with spray foam insulation. Refer to NEMA LSD 57-2013)
- UL Classified when used in retrofit with listed housings (See Housing Compatibility)
- EMI/RFI: meets FCC 47CFR Part 15 Class B limits, and is suitable for use in residential and commercial installations

7.79"

[197.87mm]

- Airtight certified per ASTM E283 (not exceeding 2.0 CFM under 57 Pascals pressure difference)
- 90 CRI: Can be used to comply with California Title 24 High Efficacy requirements.
- Can be used for International Energy Conservation Code (IECC) and Washington State Energy Code high efficiency luminaire compliance
- ENERGY STAR® certified luminaire - consult ENERGY STAR® Certified Product List
- · Contains no mercury or lead and RoHS compliant.
- insulation (Not for use in recessed . Photometric testing in accordance with IES LM-79
 - Lumen maintenance projections in accordance with IES LM-80 and TM-21
- SLD 1200 Series SLD6128xxWH

80CRI 2700K, 3000K, 3500K, and 4000K

SLD6129xxWH

90CRI 2700K, 3000K, 3500K, and 4000K

> 6" Surface LED **Downlight**

High Lumen 1200 Series

Suitable for ceiling or wall electrical junction boxes

Suitable for 5" & 6" recessed housing retrofit (IC, Non-IC & AIR-TITE[™])

ORDERING INFORMATION

SAMPLE NUMBER: SLD612927WH SLD6TRMSN

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

.8" [21.46mm]

[17.28mm]

	Color Rendering Index	Color Temperature (CCT)		Accessories
SLD612= 6" Surface LED Downlight, 120V 1200 Series California non-E26 Models SLD612927WH-CA SLD612930WH-CA SLD612935WH-CA SLD612940WH-CA	8=80 CRI 9=90 CRI	27=2700K 30=3000K 35=3500K 40=4000K	WH=White	Designer Trims Fit over the SLD for a designer finish SLD6TRMSN=6" SLD Satin Nickel SLD6TRMTBZ=6" SLD Tuscan Bronze SLD6TRMWH=6" SLD White (paintable) "SLD accessory trims attach with permanent adhesion and are not interchangable after installation J-Box Spacer Extension Ring Add 15/16" depth when SLD driver cannot fit into installed junction box SLD6EXT=6" Surface LED J-Box Extender, 9.5" O.D. RAD Adapters When junction box is mounted flat on a ceiling or beam surface (not recessed in ceiling) SLD6FAD=6" SLD Round Surface J-Box Adapter, 7.92" O.D. (for 4-inch round or octagon junction boxes.) SLD6SADPLT=6" SLD Square Surface J-Box Adapter Plate (For 4-inch square junction boxes, use with SLD6RAD.) Spare Parts SLD6ACCKIT=6" Accessory Parts Replacement Kit (Screwbase adapter, torsion springs, friction blades) SLD6BRKT=6" Junction Box Bracket & Screws Refer to SLD Accessories specification sheet for further information.



HOUSING COMPATIBILITY

The SLD6 is UL Listed in Halo and All-Pro recessed housings, and is UL Classified for use with any 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	h LED luminaire connector (high-efficacy compliant)	
HALO	Recessed Can Size	Catalog Number	
LED	5"	H550ICAT, H550RICAT, E550RICAT, E550RICAT	
	6"	H750ICAT, H750RICAT, H750T, H750RINTD010, H750TCP, H2750ICAT, H2750RICAT, E750ICAT, E750RICAT	

Halo LED Retrofit E	nclosures	
HALO	6"	ML7BXRFK, ML7E26RFK
Compatible Halo In	candescent E26	6 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, H27RICAT, E7RICAT, E7RICAT, E27RICAT, E27RICAT, E7RICAT, E7RIC



COMPATIBLE WITH EATON'S CROUSE-HINDS JUNCTION BOXES



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)

- TP316 for non-metallic cable
- TP317 for metal clad cable
- UL Listed
- Refer to www.crouse-hinds.com





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



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



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



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



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 surface mount box 4" diameter x 1-1/2" (102mm x 38mm) Requires SLD6RAD adapter



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. 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 SLD mounting bracket in the box.



PRODUCT DATA

Cat No.	CRI	ССТ	Lumens	Power (W)	LPW
SLD612827WH	80	2700	1100	14.8	74
SLD612830WH	80	3000	1150	14.8	78
SLD612835WH	80	3500	1200	14.8	81
SLD612840WH	80	4000	1215	14.8	82
SLD612927WH	92	2700	880	14.8	59
SLD612930WH	92	3000	925	14.8	63
SLD612935WH	92	3500	965	14.8	65
SLD612940WH	92	4000	1000	14.8	68

Performance values are presented as typical for the model(s) indicated. Field results may vary.

LIGHTING FACTS®

SLD612827WH - 80 CRI

Watts Lumens per Watt (Efficacy) Color Accuracy Color Rendering Index (CRI)	14.8 74.32 81
Color Accuracy	PAUL
Color Accuracy Color Rendering Index (CRI)	81
Light Color Conversed Color Temperature (CCT) 2700 (V	Varm White)
Warm White Bright White	Daylight
700K 3000K 4500K	65009
I results are according to ESNA LM 79-2008. Approved Methological State Captors The U.S. Department	
coluct test data and results.	Contractive (proce) verse
isit www.lightingfacts.com for the Label Rel	ference Guide.
egeination Number: #40J-2W8YLN (7/8/2015)	
Iodal Number: SLD61282743H rein Luminaire - Downlight	

SLD612927WH - 90 CRI

atts imens per Watt (Efficacy) plor Accuracy or Rendering Index (CR8)	14.8 59.46
nior Accuracy or Rendering Index (CRI)	
Constant and the second s	92
ight Color Intelled Color Temperature (CCT) 2700 (Wa	arm White)
larm White Bright White I	Daylight 6500K
muthe are accounting to IESNA (JA 79-2008: Agains well Method 8 constitu Testing of Solid State Lighting: The U.B. Department o unit test data and results.	
it www.lightingfacts.com for the Label Refer	rence Guide.
	rence Gu



SLD612930WH - 90 CRI



SLD612835WH - 80 CRI

Light Output (Lumens) Watts	1200
Lumens per Watt (Efficacy)	81.08
Color Accuracy Color Rendering Index (CRI)	81
Light Color Contracted Color Temperature (CCT) 3500 (B	right White)
Warm White Bright White 2700K 3000K 4500K	Daylight 6500
All results are according to IESNA LM 79-2008. Approved Methy Photometric Testing of Solid State (1999a). The U.S. Department	
product test data and results.	

SLD612935WH - 90 CRI



SLD612840WH - 80 CRI



SLD612940WH - 90 CRI





Eaton 1121 Highway 74 South Peachtree City, GA 30269 P: 770-486-4800 www.eaton.com/lighting

Specifications and dimensions subject to change without notice.