Project	Catalog #	Тур	ре
Prepared by	Notes	Dat	te



# **HALO**

# **SMD6 Series**

6" Round and Square Surface Mount Downlight SMD6R & SMD6S

**Typical Applications** Residential



# Interactive Menu

- Order Information page 2
- Product Specifications page 4
- Photometric Data page 5
- Product Warranty

# **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.

# **Top Product Features**

- · Ultra-low profile surface luminaire with wide distribution
- · Ceiling or wall mounting in compatible junction boxes
- 600 & 1200 lumen; 2700K, 3000K, 3500K, 4000K or 5000K field selectable CCT; 90 CRI
- 120V only and Universal Voltage 120V 277V options
- · Dimmable with 120V dimmers

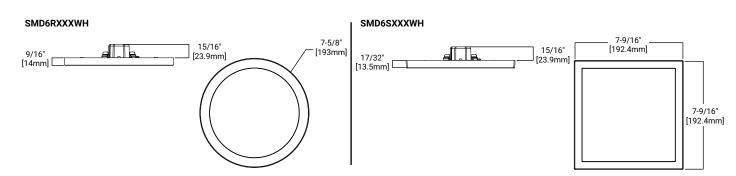
### **Product Features**







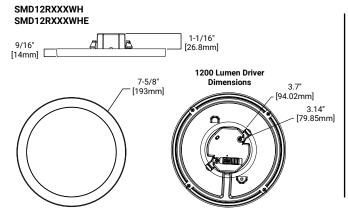
# **Dimensional and Mounting Details**

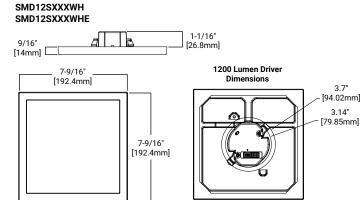






# **Dimensional and Mounting Details (continued)**





# **Ordering Information**

SAMPLE NUMBER: SMD6R69SWH = 6" Round Surface Mount Downlight, 600 lumen, 90CRI, Selectable CCT, White, 120V Junction Box Installation: Order junction box separately, as supplied by others, to complete installation. Recessed Installation: Order HALO recessed housing and SMD6ACCKIT separately to complete installation.

Models	Lumens	CRI/CCT	Finish	Voltage
Models	Lumens	CRI/CCT	Finish	Voltage
SMD6R = 6" Round Surface Mount Downlight SMD6S = 6" Square Surface Mount Downlight	<b>6</b> = 600 lumen series (120V only) <b>12</b> = 1200 lumen series	9S = 90CRI, 2700K - 5000K Field Selectable CCT	WH = Matte White	Blank = 120V standard E = UNV Universal 120-277V <sup>(1)</sup>
Notes	Notes	Notes	Notes	Notes (1) UNV voltage configuration is offered only in the 1200 lumen series

#### Accessories

Accessories
Designer Trims 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 White (paintable)
T24HWKIT = Title 24 Cable harness kit used to convert incandescent and low voltage housings to LED
SMD6ACCKIT = SMD6 accessory kit includes friction clips, torsion sprigs and a Edison screwbase adapter for recessed housing installation.
Notes

# **Accessories**

# **Designer Trims**





#### JUNCTION BOX COMPATIBILITY

\*Note: SMD 1200 lumen 120V configuration is only compatible with junction boxes 4" x 2-1/8" deep. Square junction box is recommended.



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" 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)



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



\*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 in IC and non-IC applications

#### Gaskets

· Closed cell gasket achieves restrictive airflow and wet location requirements without additional

#### **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

#### **Driver**

#### **SMD 120V**

- · 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

#### SMD 120-277V

- · Integrated 120-277V 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

#### 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 Note: SMD120-277V UNV is only compatible with junction boxes that provide minimum depth of 2-1/8"
- 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

### **Recessed Housing Mounting**

Note: Use the SMDACCKIT which includes torsion springs and Edison base adapter. (SOLD SEPERATELY)

· 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

#### **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

#### Compliance

- · cULus Certified for use with Halo housings and for use with other's housings, , when used with SMDACCKIT (Sold Seperately) 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.
- · 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

#### Warrantv

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

# **Energy Data**

#### SMD6R6 / SMD6S6

	Round	Square	
Lumens (5000K models)	777 800		
Input Power	9 W	9 W	
Input Current	0.085 A	0.085 A	
Efficiency	86 lm/W	85 lm/W	
THDi	8	8	
Input Voltage	120V		
Frequency	60 Hz		
CRI	90	CRI	
Power Factor	0.98		
T Ambient	-30 - +40°C		
Sound Rating	Clas	ss A	

#### SMD6R12 / SMD6S12

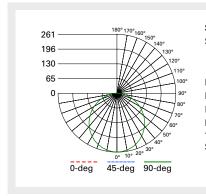
	Round	Square	
Lumens (5000K models)	1271	1345	
Input Power	15	15	
Input Current	0.129 A	0.129 A	
Efficiency	85 lm/W	88 lm/W	
THDi	12.6	12.6	
Input Voltage	120V		
Frequency	60 Hz		
CRI	90	CRI	
Power Factor	0.98		
T Ambient	-30 - +40°C		
Sound Rating	Class A		

#### SMD6R12-E / SMD6S12-E

	Round	Square	
Lumens (5000K models)	1357	1364	
Input Power	14.5	14.5	
Input Current	0.125 A (120V) 0.058 A (277V)	0.125 A (120V) 0.058 A (277V)	
Efficiency	94 lm/W	94 lm/W	
THDi	12.8	12.8	
Input Voltage	120 -	277V	
Frequency	60	Hz	
CRI	90	CRI	
Power Factor	0.99 (120V) 0.94 (277V)		
T Ambient	-30	+40°C	
Sound Rating	Clas	ss A	



# **Photometric Data**



#### SMD6R69SWH - 3000K.IES

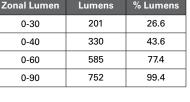
Spacing criterion: (0-180) 1.26 (90-270) 1.26

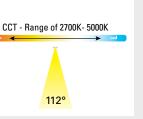
(Diagonal) 1.38

Beam Angle: 112° Lumens: 757 Input Watts: 8.9 W Efficacy: 85 LPW

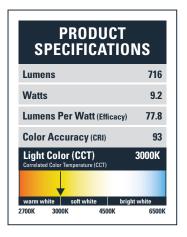
Test Report: SMD6R69SWH - 3000K.IES

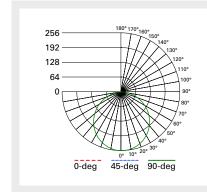
Zonal Lumen	Lumens	% Lumens
0-30	201	26.6
0-40	330	43.6
0-60	585	77.4
0-90	752	99.4





SMD6R69SWH	CCT	Watts	Lumens	LPW	CRI
	2700K	9.2	704	76.6	93
600 Lumen	3000K	9.2	716	77.8	93
6" Round	3500K	9.2	729	79.2	94
Selectable CCT	4000K	9.2	742	80.5	94
	5000K	9.2	756	82.0	93





## SMD6S69SWH - 3000K.IES

Spacing criterion: (0-180) 1.28

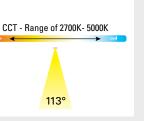
(90-270) 1.28

(Diagonal) 1.40

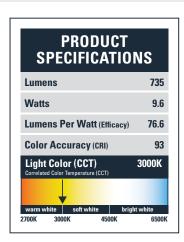
Beam Angle: 113° Lumens: 752 Input Watts: 9.2 W Efficacy: 82 LPW Test Report:

SMD6S69SWH - 3000K.IES

Zonal Lumen	Lumens	% Lumens
0-30	199	26.4
0-40	326	43.4
0-60	580	77.2
0-90	748	99.5

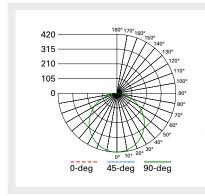


SMD6S69SWH	CCT	Watts	Lumens	LPW	CRI
	2700K	9.6	720	75.3	93
600 Lumen	3000K	9.6	735	76.7	93
6" Square Selectable CCT	3500K	9.6	750	78.2	94
	4000K	9.6	764	79.5	94
	5000K	9.6	774	80.7	92





# **Photometric Data**



#### SMD6R129SWH - 3000K.IES

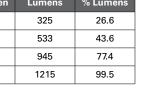
Spacing criterion: (0-180) 1.26 (90-270) 1.26

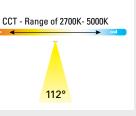
(Diagonal) 1.38

Beam Angle: 112° Lumens: 1221 Input Watts: 14.9 W Efficacy: 82 LPW Test Report:

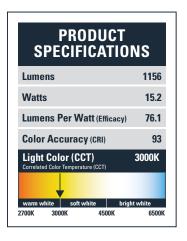
SMD6R129SWH - 3000K.IES

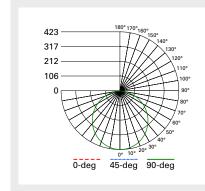
Zonal Lumen	Lumens	% Lumens
0-30	325	26.6
0-40	533	43.6
0-60	945	77.4
0-90	1215	99.5





SMD6R129SWH	ССТ	Watts	Lumens	LPW	CRI
	2700K	15.2	1135	74.7	92
1200 Lumen	3000K	15.2	1156	76.1	93
6" Round	3500K	15.2	1178	77.5	94
Selectable CCT	4000K	15.2	1198	78.8	95
	5000K	15.2	1226	80.7	93





## SMD6S129SWH - 3000K.IES

Spacing criterion: (0-180) 1.26

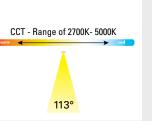
(90-270) 1.26

(Diagonal) 1.40

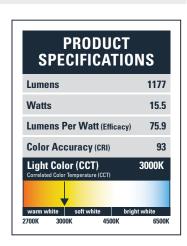
Beam Angle: 113° Lumens: 1241 Input Watts: 14.9 W Efficacy: 83 LPW

Test Report: SMD6S129SWH - 3000K.IES

Zonal Lumen	Lumens	% Lumens
0-30	329	26.5
0-40	539	43.5
0-60	960	77.3
0-90	1237	99.6

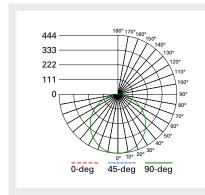


SMD6S129SWH	CCT	Watts	Lumens	LPW	CRI
1200 Lumen 6" Square Selectable CCT	2700K	15.5	1153	74.4	92
	3000K	15.5	1177	75.9	93
	3500K	15.5	1206	77.8	95
	4000K	15.5	1224	79.0	95
	5000K	15.4	1256	81.6	93





# **Photometric Data**



# SMD6R129SWHE - 3000K.IES

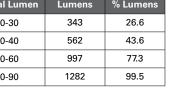
Spacing criterion: (0-180) 1.24 (90-270) 1.24

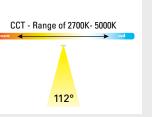
(Diagonal) 1.38

Beam Angle: 112° Lumens: 1289 Input Watts: 14.5 W Efficacy: 89 LPW Test Report:

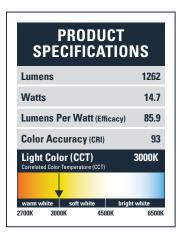
SMD6R129SWHE - 3000K.IES

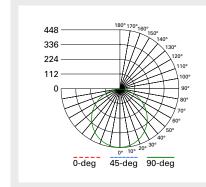
Zonal Lumen	Lumens	% Lumens
0-30	343	26.6
0-40	562	43.6
0-60	997	77.3
0-90	1282	99.5





SMD6R129SWHE	CCT	Watts	Lumens	LPW	CRI
	2700K	14.7	1237	84.1	92
1200 Lumen	3000K	14.7	1262	85.9	93
6" Round Selectable CCT	3500K	14.7	1289	87.7	95
120-277V	4000K	14.7	1311	89.2	95
	5000K	14.7	1306	88.8	93





## SMD6S129SWHE - 3000K.IES

Spacing criterion: (0-180) 1.26

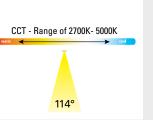
(90-270) 1.26

(Diagonal) 1.40

Beam Angle: 114° Lumens: 1312 Input Watts: 14.7 W Efficacy: 89 LPW

Test Report: SMD6S129SWHE - 3000K.IES

Zonal Lumen	Lumens	% Lumens
0-30	348	26.5
0-40	570	43.5
0-60	1014	77.3
0-90	1307	99.6



SMD6S129SWHE	CCT	Watts	Lumens	LPW	CRI
	2700K	15.1	1225	81.1	92
1200 Lumen	3000K	15.1	1251	82.8	93
6" Square Selectable CCT	3500K	15.1	1277	84.6	95
120-277V	4000K	15.1	1299	86.0	95
	5000K	15.1	1327	87.9	93

