

Project		Catalog #		Type	
Prepared by		Notes		Date	



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 J48.

Product Features

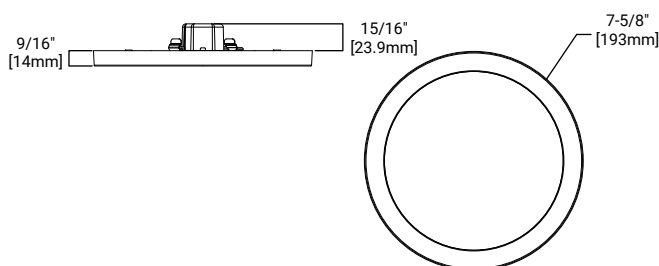


Top Product Features

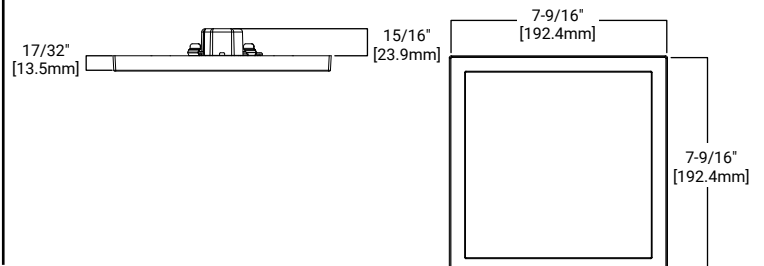
- Ultra-low profile surface luminaire with wide distribution
- Ceiling or wall mounting in compatible junction boxes
- 600 & 1200 lumen; 2700K, 3000K, 3500K, 4000K or 5000K field selectable CCT; 90 CRI
- 120V only and Universal Voltage 120V – 277V options
- Dimmable with 120V dimmers

Dimensional and Mounting Details

SMD6R69SWH

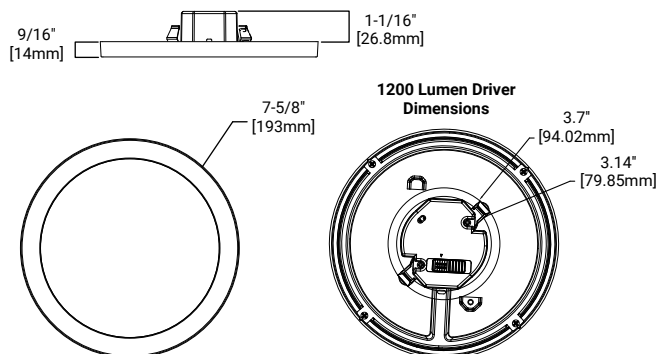
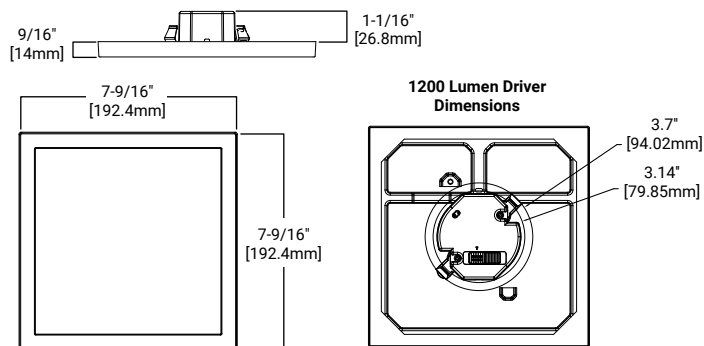


SMD6S69SWH



additional product diagrams

Dimensional and Mounting Details (continued)

SMD6R129SWH
SMD6R129SWHESMD6S129SWH
SMD6S129SWHE

Note: Ensure junction box (provided by others) internal dimension supports driver dimension.

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.

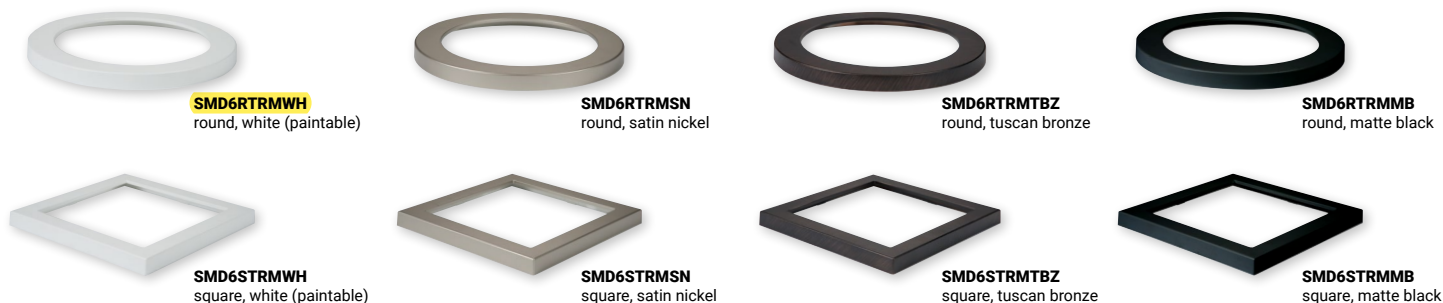
Models	Lumens	CRI/CCT	Finish	Voltage
Models	Lumens	CRI/CCT	Finish	Voltage
SMD6R = 6" Round Surface Mount Downlight SMD6S = 6" Square Surface Mount Downlight	6 = 600 lumen series (120V only) 12 = 1200 lumen series ⁽¹⁾	9S = 90CRI, 2700K - 5000K Field Selectable CCT	WH = Matte White	Blank = 120V standard E = UNV Universal 120-277V ⁽²⁾
Notes	Notes	Notes	Notes	Notes
	(1) 1200 lumen series requires use of 4" square junction box or similar to support driver.			(2) 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) SMD6RTRMMB = 6" Round SMD Matte Black SMD6STRMSN = 6" Square SMD Satin Nickel SMD6STRMTBZ = 6" Square SMD Tuscan Bronze SMD6STRMWH = 6" Square SMD White (paintable) SMD6STRMMB = 6" Square SMD Matte Black T24HWKIT = Title 24 Cable harness kit used to convert incandescent and low voltage housings to LED SMD6ACCKIT = SMD6 accessory kit includes friction clips, torsion springs and a Edison screwbase adapter for recessed housing installation.
Notes

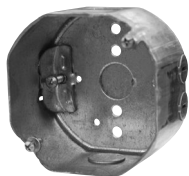
Accessories

Designer Trims

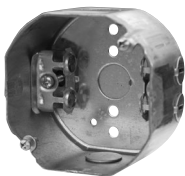


JUNCTION BOX COMPATIBILITY

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



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)



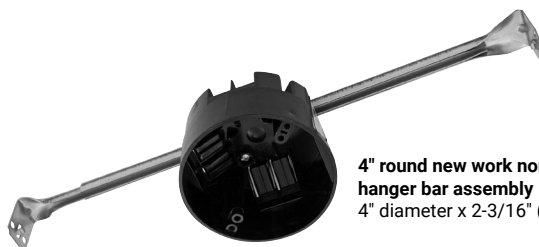
4" round new work non-metallic light fixture/fan box
4" diameter x 2-3/16"
(102mm x 56mm)



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



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 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

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 Separately) 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

Warranty

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

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	Class A	

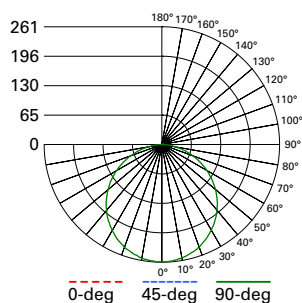
SMD6R12 / SMD6S12

	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	Class A	

Photometric Data

**SMD6R69SWH - 3000K.IES**

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

Beam Angle: 112°

Lumens: 757

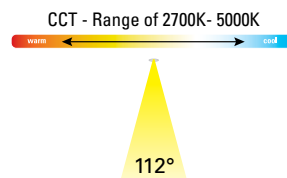
Input Watts: 8.9 W

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

PRODUCT SPECIFICATIONS

Lumens 716

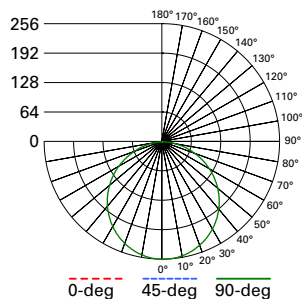
Watts 9.2

Lumens Per Watt (Efficacy) 77.8

Color Accuracy (CRI) 93

Light Color (CCT) 3000K

Correlated Color Temperature (CCT)

**SMD6S69SWH - 3000K.IES**

Spacing criterion: (0-180) 1.28
(90-270) 1.28
(Diagonal) 1.40

Beam Angle: 113°

Lumens: 752

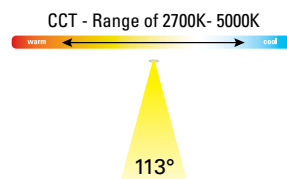
Input Watts: 9.2 W

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

PRODUCT SPECIFICATIONS

Lumens 735

Watts 9.6

Lumens Per Watt (Efficacy) 76.6

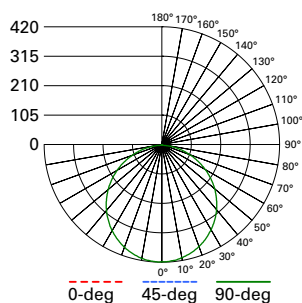
Color Accuracy (CRI) 93

Light Color (CCT) 3000K

Correlated Color Temperature (CCT)



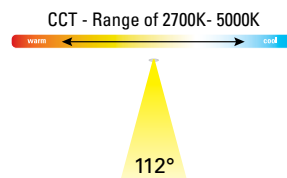
Photometric Data

**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

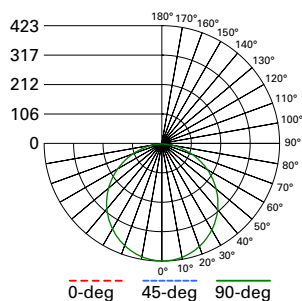
Zonal Lumen	Lumens	% Lumens
0-30	325	26.6
0-40	533	43.6
0-60	945	77.4
0-90	1215	99.5



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

PRODUCT SPECIFICATIONS

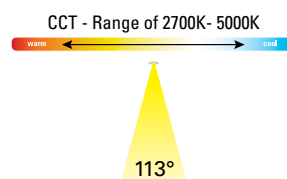
Lumens	1156
Watts	15.2
Lumens Per Watt (Efficacy)	76.1
Color Accuracy (CRI)	93
Light Color (CCT)	3000K
Correlated Color Temperature (CCT)	
	
2700K	3000K
4500K	6500K

**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

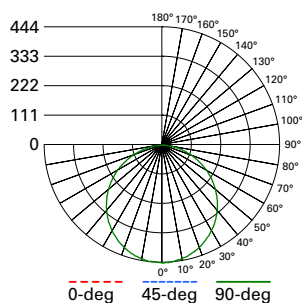


SMD6S129SWH	CCT	Watts	Lumens	LPW	CRI
1200 Lumen 6" Square Selectable CCT	2700K	15.5	1153	74.4	92
	3000K	15.5	1177	75.9	93
	3500K	15.5	1206	77.8	95
	4000K	15.5	1224	79.0	95
	5000K	15.4	1256	81.6	93

PRODUCT SPECIFICATIONS

Lumens	1177		
Watts	15.5		
Lumens Per Watt (Efficacy)	75.9		
Color Accuracy (CRI)	93		
Light Color (CCT) Correlated Color Temperature (CCT)	3000K		
			
warm white	soft white	bright white	
2700K	3000K	4500K	6500K

Photometric Data

**SMD6R129SWHE - 3000K.IES**

Spacing criterion: (0-180) 1.24
(90-270) 1.24
(Diagonal) 1.38

Beam Angle: 112°

Lumens: 1289

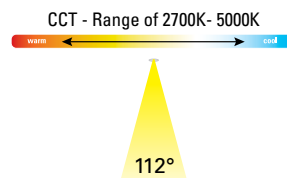
Input Watts: 14.5 W

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

PRODUCT SPECIFICATIONS

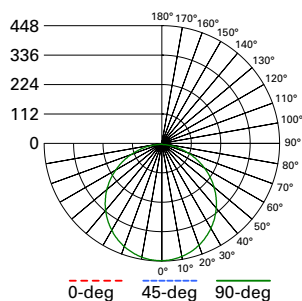
Lumens 1262

Watts 14.7

Lumens Per Watt (Efficacy) 85.9

Color Accuracy (CRI) 93

Light Color (CCT) 3000K
Correlated Color Temperature (CCT)

**SMD6S129SWHE - 3000K.IES**

Spacing criterion: (0-180) 1.26
(90-270) 1.26
(Diagonal) 1.40

Beam Angle: 114°

Lumens: 1312

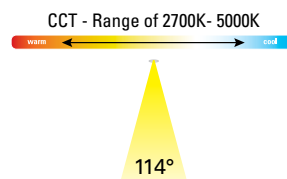
Input Watts: 14.7 W

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

PRODUCT SPECIFICATIONS

Lumens 1251

Watts 15.1

Lumens Per Watt (Efficacy) 82.8

Color Accuracy (CRI) 93

Light Color (CCT) 3000K
Correlated Color Temperature (CCT)



SMD-EM - Surface Mount Emergency Battery Backup

Dimming Guide and Step-down Transformer Application Note

HALO

The SMD-EM Series provides continuous dimming with reverse or forward phase cut dimmers.

SMD6-EM

SMD6R69SWH-EM
SMD6S69SWH-EM
SMD6R129SWH-EM
SMD6R129SWHE-EM
SMD6S129SWH-EM
SMD6S129SWHE-EM

SMD12-EM

SMD12R209SWHE-EM
SMD12S209SWHE-EM

SMD14-EM

SMD14R209SWHE-EM
SMD14S209SWHE-EM



Phase Control Dimming



HALOHOME™



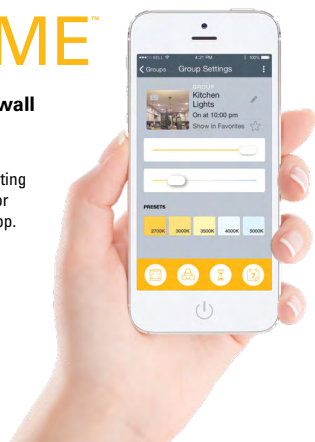
HALO Home In-wall Smart Dimmer

HIWMA1BLE40AWH

Controls standard lighting fixtures with dimmer or HALO Home mobile app.

Features include:

- ON/OFF
- Dim
- Group
- Scene
- Schedule



SMD6R-EM - 6" Round Surface Downlight with Emergency Battery Backup, 600 Lumen

LED Rated

Dimmer Make	Dimmer Series	Dimmer Model #	Minimum Luminaires (per circuit)	Maximum Recommended Luminaires (per circuit)	Min Dimming percentage (%)	Max Dimming percentage (%)	Low End Start Time
Cooper Lighting Solutions	Halo Home	HIWMA1BLE40AWH	1	26	0%	98%	NA ⁽¹⁾

1. Dim to off.

Reference

Dimmer Make	Dimmer Series	Dimmer Model #	Minimum Luminaires (per circuit)	Maximum Recommended Luminaires (per circuit)	Min Dimming percentage (%)	Max Dimming percentage (%)	Low End Start Time
Leviton	Decora	6672	1	53	0%	93%	NA ⁽¹⁾
Leviton	SureSlide	6674	1	13	4%	92%	<1s
Leviton	SureSlide	DSL06-ILZ	1	53	2%	93%	<1s
Leviton	Illuminatech	IPL06-ILZ	1	13	5%	92%	<1s
Cooper Lighting Solutions	Halo Home	HIWMA1BLE40AWH	1	26	0%	98%	NA ⁽¹⁾
Leviton	Vizia	VPI06	1	53	4%	94%	<1s
Leviton	Decora	TSL06-1LW	1	44	5%	93%	<1s
Leviton	SureSlide	RDL06-1OZ	1	53	0%	96%	NA ⁽¹⁾
Lutron	Toggler	TG-600P	1	53	0%	87%	NA ⁽¹⁾
Lutron	Nova T	NTFTU-6A	1	53	18%	94%	<1s
Eaton	RF Smart	RF9540-N	1	26	5%	95%	<1s
Lutron	Maestro	MAW600	1	53	1%	95%	<1s
Lutron	Toggler	TGCL-153P	1	13	5%	87%	<1s
Lutron	Lumea	LG600P	1	53	0%	91%	NA ⁽¹⁾
EWD	Universal	TUL06P-C2	1	26	5%	91%	<1s
EWD	Universal	SUL06P	1	26	5%	91%	<1s
Lutron	Skylark	SCL-153P-WH	1	13	5%	89%	<1s
Lutron	Diva	DV603P	1	53	0%	91%	NA ⁽¹⁾
Lutron	Diva	DVCL-153P	1	13	5%	89%	<1s
Lutron	Maestro	MACL-153-M	1	13	5%	80%	<1s
Leviton	Vizia	VPE06	1	53	1%	98%	<1s
Leviton	Legrand	H703PTU	1	26	5%	100%	<1s
Leviton	Vizia	VZE04	1	35	2%	97%	<1s
Leviton	Acenti	ATX10	1	89	5%	94%	<1s
Lutron	Maestro	MAELV600	1	53	3%	95%	<1s
Lutron	Faendra	FAELV500	1	44	3%	95%	<1s
Lutron	Diva	DVELV303P	1	26	0%	95%	NA ⁽¹⁾
Lutron	Skylark	SELV300P	1	26	0%	95%	NA ⁽¹⁾
EWD	Smart	AAL06	1	26	5%	94%	<1s
Lightolier	Sunrise	ZP260QEW	1	23	5%	93%	<1s
Eaton	Aspire	9530AV	1	53	0%	100%	NA ⁽¹⁾
Eaton	Skye	SF8AP	1	86	24%	95%	<1s
Eaton	Devine	DE06P	1	53	0%	81%	NA ⁽¹⁾
Eaton	React	RI061	1	53	0%	94%	NA ⁽¹⁾
Eaton	Devine	TAL06P	1	26	5%	97%	<1s
Eaton	Toggle	DAL06P	1	26	5%	97%	<1s
Eaton	Skye	SAL06P	1	26	5%	97%	<1s
Eaton	Skye	SLC03P	1	26	5%	92%	<1s
Eaton	Devine	DLC03P	1	26	5%	93%	<1s
Eaton	Toggle	TI061	1	53	0%	73%	NA ⁽¹⁾

SMD6R-EM - 6" Round Surface Downlight with Emergency Battery Backup, 600 Lumen

Reference (continued)

Dimmer Make	Dimmer Series	Dimmer Model #	Minimum Luminaires (per circuit)	Maximum Recommended Luminaires (per circuit)	Min Dimming percentage (%)	Max Dimming percentage (%)	Low End Start Time
Lutron(PANEL)	LCP128 (TRIAC)	LP-RPM-4U-120	1	172	0%	97%	NA ⁽¹⁾
Lutron(PANEL)	LCP128 (ELV)	LP-RPM-4A-120	1	107	0%	95%	NA ⁽¹⁾
Ecospec(PANEL)	LDCM	LDCM-PL-120-277-010V-GR	1	40	0%	99%	NA ⁽¹⁾
Lutron	Ariadni	AY-600P	1	53	0%	93%	NA ⁽¹⁾
Lutron	Contour	CT-103P	1	89	0%	91%	NA ⁽¹⁾
Lutron	Contour	CT-600P	1	53	0%	91%	NA ⁽¹⁾
Lutron	Rotary	D-600P	1	53	0%	92%	NA ⁽¹⁾
Lutron	Diva	DV-600P	1	53	0%	89%	NA ⁽¹⁾
Lutron	Glyder	GL-600P	1	53	0%	91%	NA ⁽¹⁾
Lutron	Lumia	LG-600PH	1	53	0%	91%	NA ⁽¹⁾
Lutron	Maestro	MA-600	1	53	0%	91%	NA ⁽¹⁾
Lutron	Nova	N-600	1	53	2%	95%	<1s
Lutron	Skylark	S-600P	1	53	0%	94%	NA ⁽¹⁾
Lutron	Centurion	C-600P	1	53	0%	91%	NA ⁽¹⁾
Lutron	Ariadni	AYLV-600P	1	40	0%	94%	NA ⁽¹⁾
Lutron	Glyder	GLV-600	1	40	0%	93%	NA ⁽¹⁾
Lutron	Diva	DVLV-600P	1	40	0%	95%	NA ⁽¹⁾
Lutron	Lumina	LG-103P	1	89	0%	91%	NA ⁽¹⁾
Lutron	Skylark	SLV-600P	1	40	0%	92%	NA ⁽¹⁾
EWD	Universal	DUL06P-C7	1	26	5%	91%	<1s
Lutron	Nova	NTLV-600	1	26	0%	94%	NA ⁽¹⁾
Lutron	Nova	NT-600	1	40	0%	94%	NA ⁽¹⁾

1. Dim to off.

SMD6S-EM - 6" Square Surface Downlight with Emergency Battery Backup, 600 Lumen

LED Rated

Dimmer Make	Dimmer Series	Dimmer Model #	Minimum Luminaires (per circuit)	Maximum Recommended Luminaires (per circuit)	Min Dimming percentage (%)	Max Dimming percentage (%)	Low End Start Time
Cooper Lighting Solutions	Halo Home	HIWMA1BLE40AWH	1	27	0%	97%	NA ⁽¹⁾

1. Dim to off.

Reference

Dimmer Make	Dimmer Series	Dimmer Model #	Minimum Luminaires (per circuit)	Maximum Recommended Luminaires (per circuit)	Min Dimming percentage (%)	Max Dimming percentage (%)	Low End Start Time
Leviton	Decora	6672	1	55	0%	91%	NA ⁽¹⁾
Leviton	SureSlide	6674	1	13	5%	91%	<1s
Leviton	SureSlide	DSL06-ILZ	1	55	5%	94%	<1s
Leviton	Illumatech	IPL06-ILZ	1	13	5%	92%	<1s
Cooper Lighting Solutions	Halo Home	HIWMA1BLE40AWH	1	27	0%	97%	NA ⁽¹⁾
Leviton	Vizia	VPI06	1	55	0%	93%	NA ⁽¹⁾
Leviton	Decora	TSL06-1LW	1	45	5%	92%	<1s
Leviton	SureSlide	RDL06-1OZ	1	55	0%	95%	NA ⁽¹⁾
Lutron	Toggler	TG-600P	1	55	0%	90%	NA ⁽¹⁾
Lutron	Nova T	NTFTU-6A	1	55	17%	92%	<1s
Eaton	RF Smart	RF9540-N	1	27	5%	93%	<1s
Lutron	Maestro	MAW600	1	55	1%	94%	<1s
Lutron	Toggler	TGCL-153P	1	13	5%	85%	<1s
Lutron	Lumea	LG600P	1	55	0%	89%	NA ⁽¹⁾
EWD	Universal	TUL06P-C2	1	27	5%	89%	<1s
EWD	Universal	SUL06P	1	27	5%	89%	<1s
Lutron	Skylark	SCL-153P-WH	1	13	5%	87%	<1s
Lutron	Diva	DV603P	1	55	0%	88%	NA ⁽¹⁾
Lutron	Diva	DVCL-153P	1	13	5%	86%	<1s
Lutron	Maestro	MACL-153-M	1	13	6%	79%	<1s
Leviton	Vizia	VPE06	1	55	1%	97%	>1s
Leviton	Legrand	H703PTU	1	27	7%	99%	<1s
Leviton	Vizia	VZE04	1	36	2%	95%	<1s
Leviton	Acenti	ATX10	1	91	5%	94%	<1s
Lutron	Maestro	MAELV600	1	55	3%	94%	<1s
Lutron	Faendra	FAELV500	1	45	2%	93%	<1s
Lutron	Diva	DVELV303P	1	27	0%	92%	NA ⁽¹⁾
Lutron	Skylark	SELV300P	1	27	0%	93%	NA ⁽¹⁾
EWD	Smart	AAL06	1	27	5%	92%	<1s
Lightolier	Sunrise	ZP260QEW	1	23	5%	96%	<1s
Eaton	Aspire	9530AV	1	55	0%	100%	NA ⁽¹⁾
Eaton	Devine	DE06P	1	55	0%	80%	NA ⁽¹⁾
Eaton	React	RI061	1	55	0%	93%	NA ⁽¹⁾
Eaton	Devine	TAL06P	1	27	5%	96%	<1s
Eaton	Toggle	DAL06P	1	27	5%	96%	<1s
Eaton	Skye	SAL06P	1	27	5%	96%	<1s
Eaton	Skye	SLC03P	1	27	5%	91%	<1s
Eaton	Devine	DLC03P	1	27	5%	92%	<1s
Eaton	Toggle	TI061	1	55	0%	72%	NA ⁽¹⁾
Lutron(PANEL)	LCP128 (TRIAC)	LP-RPM-4U-120	1	176	0%	96%	NA ⁽¹⁾

SMD6S-EM - 6" Square Surface Downlight with Emergency Battery Backup, 600 Lumen

Reference (continued)

Dimmer Make	Dimmer Series	Dimmer Model #	Minimum Luminaires (per circuit)	Maximum Recommended Luminaires (per circuit)	Min Dimming percentage (%)	Max Dimming percentage (%)	Low End Start Time
Lutron(PANEL)	LCP128 (ELV)	LP-RPM-4A-120	1	110	0%	92%	NA ⁽¹⁾
Ecospec(PANEL)	LDCM	LDCM-PL-120-277-010V-GR	1	41	0%	99%	NA ⁽¹⁾
Lutron	Ariadni	AY-600P	1	55	0%	90%	NA ⁽¹⁾
Lutron	Contour	CT-103P	1	91	0%	89%	NA ⁽¹⁾
Lutron	Contour	CT-600P	1	55	0%	89%	NA ⁽¹⁾
Lutron	Diva	DV-600P	1	55	0%	89%	NA ⁽¹⁾
Lutron	Glyder	GL-600P	1	55	0%	89%	NA ⁽¹⁾
Lutron	Lumia	LG-600PH	1	55	0%	89%	NA ⁽¹⁾
Lutron	Maestro	MA-600	1	55	2%	94%	<1s
Lutron	Nova	N-600	1	55	0%	92%	NA ⁽¹⁾
Lutron	Skylark	S-600P	1	55	0%	89%	NA ⁽¹⁾
Lutron	Centurion	C-600P	1	55	0%	92%	NA ⁽¹⁾
Lutron	Ariadni	AYLV-600P	1	41	0%	92%	NA ⁽¹⁾
Lutron	Glyder	GLV-600	1	41	0%	93%	NA ⁽¹⁾
Lutron	Diva	DVLV-600P	1	41	0%	89%	NA ⁽¹⁾
Lutron	Lumina	LG-103P	1	91	0%	89%	NA ⁽¹⁾
Lutron	Skylark	SLV-600P	1	41	0%	90%	NA ⁽¹⁾
EWD	Universal	DUL06P-C7	1	27	5%	89%	<1s
Lutron	Nova	NTLV-600	1	27	0%	93%	NA ⁽¹⁾
Lutron	Nova	NT-600	1	41	0%	93%	NA ⁽¹⁾

1. Dim to off.

SMD6R-EM - 6" Round Surface Downlight with Emergency Battery Backup, 1200 Lumen

LED Rated

Dimmer Make	Dimmer Series	Dimmer Model #	Minimum Luminaires (per circuit)	Maximum Recommended Luminaires (per circuit)	Min Dimming percentage (%)	Max Dimming percentage (%)	Low End Start Time
Cooper Lighting Solutions	Halo Home	HIWMA1BLE40AWH	1	16	0%	100%	NA ⁽¹⁾

1. Dim to off.

Reference

Dimmer Make	Dimmer Series	Dimmer Model #	Minimum Luminaires (per circuit)	Maximum Recommended Luminaires (per circuit)	Min Dimming percentage (%)	Max Dimming percentage (%)	Low End Start Time
Leviton	Decora	6672	1	32	0%	94%	NA ⁽¹⁾
Leviton	SureSlide	6674	1	8	5%	94%	<1s
Leviton	SureSlide	DSL06-ILZ	1	32	5%	95%	<1s
Leviton	Illuminatech	IPL06-ILZ	1	8	5%	93%	<1s
Cooper Lighting Solutions	Halo Home	HIWMA1BLE40AWH	1	16	0%	100%	NA ⁽¹⁾
Leviton	Vizia	VPI06	1	32	0%	96%	NA ⁽¹⁾
Leviton	Decora	TSL06-1LW	1	26	5%	95%	<1s
Leviton	SureSlide	RDL06-1OZ	1	32	0%	99%	NA ⁽¹⁾
Lutron	Toggler	TG-600P	1	32	0%	89%	NA ⁽¹⁾
Lutron	Nova T	NTFTU-6A	1	32	11%	98%	<1s
Eaton	RF Smart	RF9540-N	1	16	5%	98%	<1s
Lutron	Maestro	MAW600	1	32	1%	95%	<1s
Lutron	Lumea	LG600P	1	32	0%	93%	NA ⁽¹⁾
EWD	Universal	TUL06P-C2	1	16	5%	91%	<1s
EWD	Universal	SUL06P	1	16	3%	91%	<1s
Lutron	Skylark	SCL-153P-VWH	1	8	5%	90%	<1s
Lutron	Diva	DV603P	1	32	0%	93%	NA ⁽¹⁾
Lutron	Diva	DVCL-153P	1	8	5%	90%	<1s
Lutron	Maestro	MACL-153-M	1	8	5%	83%	<1s
Leviton	Vizia	VPE06	1	32	1%	100%	<1s
Leviton	Legrand	H703PTU	1	16	5%	100%	<1s
Leviton	Vizia	VZE04	1	21	1%	99%	<1s
Leviton	Acenti	ATX10	1	53	5%	99%	<1s
Lutron	Maestro	MAELV600	1	32	1%	99%	<1s
Lutron	Faendra	FAELV500	1	26	3%	98%	<1s
Lutron	Diva	DVELV303P	1	16	0%	95%	NA ⁽¹⁾
Lutron	Skylark	SELV300P	1	16	0%	97%	NA ⁽¹⁾
EWD	Smart	AAL06	1	16	5%	99%	<1s
Lightolier	Sunrise	ZP260QEW	1	13	5%	99%	<1s
Eaton	Aspire	9530AW	1	32	0%	100%	NA ⁽¹⁾
Eaton	Skye	SF8AP	1	51	16%	100%	NA ⁽¹⁾
Eaton	Devine	DE06P	1	32	0%	83%	NA ⁽¹⁾
Eaton	React	RI061	1	32	0%	99%	NA ⁽¹⁾
Eaton	Toggle	DAL06P	1	16	5%	100%	<1s
Eaton	Skye	SAL06P	1	16	5%	100%	<1s
Eaton	Skye	SLC03P	1	16	5%	98%	<1s
Eaton	Devine	DLC03P	1	16	5%	99%	<1s
Eaton	Toggle	TI061	1	32	0%	78%	NA ⁽¹⁾
Lutron(PANEL)	LCP128 (TRIAC)	LP-RPM-4U-120	1	102	0%	99%	NA ⁽¹⁾
Lutron(PANEL)	LCP128 (ELV)	LP-RPM-4A-120	1	64	0%	96%	NA ⁽¹⁾

SMD6R-EM - 6" Round Surface Downlight with Emergency Battery Backup, 1200 Lumen

Reference (continued)

Dimmer Make	Dimmer Series	Dimmer Model #	Minimum Luminaires (per circuit)	Maximum Recommended Luminaires (per circuit)	Min Dimming percentage (%)	Max Dimming percentage (%)	Low End Start Time
Ecospec(PANEL)	LDCM	LDCM-PL-120-277-010V-GR	1	24	0%	100%	NA ⁽¹⁾
EWD(277V PANEL)	iLumen	SC277-06-UN	1	102	0%	0%	
Lutron	Ariadni	AY-600P	1	32	0%	97%	NA ⁽¹⁾
Lutron	Contour	CT-103P	1	53	0%	94%	NA ⁽¹⁾
Lutron	Contour	CT-600P	1	32	0%	94%	NA ⁽¹⁾
Lutron	Rotary	D-600P	1	32	0%	90%	NA ⁽¹⁾
Lutron	Diva	DV-600P	1	32	0%	94%	NA ⁽¹⁾
Lutron	Glyder	GL-600P	1	32	0%	94%	NA ⁽¹⁾
Lutron	Lumia	LG-600PH	1	32	0%	94%	NA ⁽¹⁾
Lutron	Maestro	MA-600	1	32	3%	96%	<1s
Lutron	Nova	N-600	1	32	0%	99%	NA ⁽¹⁾
Lutron	Skylark	S-600P	1	32	0%	94%	NA ⁽¹⁾
Lutron	Centurion	C-600P	1	32	0%	98%	NA ⁽¹⁾
Lutron	Ariadni	AYLV-600P	1	24	0%	98%	NA ⁽¹⁾
Lutron	Glyder	GLV-600	1	24	0%	98%	NA ⁽¹⁾
Lutron	Diva	DVLV-600P	1	24	0%	92%	NA ⁽¹⁾
Lutron	Lumina	LG-103P	1	53	0%	93%	NA ⁽¹⁾
Lutron	Maestro	DDL06-1LZ	1	24	0%	0%	
Lutron	Skylark	SLV-600P	1	24	0%	94%	NA ⁽¹⁾
EWD	Universal	DUL06P-C7	1	16	5%	91%	<1s
Lutron	Nova	NTLV-600	1	16	0%	98%	NA ⁽¹⁾
Lutron	Nova	NT-600	1	24	0%	98%	NA ⁽¹⁾

1. Dim to off.

SMD6R-EM 0-10V Dimmer, 1200 Lumen - For Reference Only

Dimmer Make	Dimmer Series	Dimmer Model #	Type of Dimmer	Minimum Luminaire	Maximum Luminaire (120V)	Maximum Luminaire (277V)	Max Dimming Range (%)	Minimum Dimming Range(%)	Low End Start Time
Eaton	Slide Dimmer	SF10P	0-10V	1	64	89	100	3	<1s
Eaton	Decorator Dimmer	DF10P	0-10V	1	64	89	100	3	<1s
Leviton	Illuminatech	IP710-DL	0-10V	1	64	80	100	3	<1s
Lutron	NTFTV	NOVA T	0-10V	1	99	181	100	3	<1s
Lutron	DIVA	DVTV	0-10V	1	99	180	100	3	<1s
Cooper Lighting Solutions	Greengate	CK4A	0-10V	1	124	250	100	3	NA

SMD6S-EM - 6" Square Surface Downlight with Emergency Battery Backup, 1200 Lumen

LED Rated

Dimmer Make	Dimmer Series	Dimmer Model #	Minimum Luminaires (per circuit)	Maximum Recommended Luminaires (per circuit)	Min Dimming percentage (%)	Max Dimming percentage (%)	Low End Start Time
Cooper Lighting Solutions	Halo Home	HIWMA1BLE40AWH	1	16	0%	100%	NA ⁽¹⁾

1. Dim to off.

Reference

Dimmer Make	Dimmer Series	Dimmer Model #	Minimum Luminaires (per circuit)	Maximum Recommended Luminaires (per circuit)	Min Dimming percentage (%)	Max Dimming percentage (%)	Low End Start Time
Leviton	Decora	6672	1	32	0%	96%	NA ⁽¹⁾
Leviton	SureSlide	6674	1	8	5%	95%	<1s
Leviton	SureSlide	DSL06-ILZ	1	32	5%	97%	<1s
Leviton	Illumatech	IPL06-ILZ	1	8	5%	94%	<1s
Cooper Lighting Solutions	Halo Home	HIWMA1BLE40AWH	1	16	0%	100%	NA ⁽¹⁾
Leviton	Vizia	VPI06	1	32	0%	97%	NA ⁽¹⁾
Leviton	Decora	TSL06-1LW	1	26	5%	96%	<1s
Leviton	SureSlide	RDL06-1OZ	1	32	0%	100%	NA ⁽¹⁾
Lutron	Toggler	TG-600P	1	32	0%	99%	NA ⁽¹⁾
Lutron	Nova T	NTFTU-6A	1	32	11%	100%	<1s
Eaton	RF Smart	RF9540-N	1	16	4%	100%	<1s
Lutron	Maestro	MAW600	1	32	1%	96%	<1s
Lutron	Lumea	LG600P	1	32	0%	95%	NA ⁽¹⁾
EWD	Universal	TUL06P-C2	1	16	5%	93%	<1s
EWD	Universal	SUL06P	1	16	5%	92%	<1s
Lutron	Skylark	SCL-153P-VWH	1	8	5%	91%	<1s
Lutron	Diva	DV603P	1	32	0%	94%	NA ⁽¹⁾
Lutron	Diva	DVCL-153P	1	8	5%	91%	<1s
Lutron	Maestro	MACL-153-M	1	8	5%	85%	<1s
Leviton	Vizia	VPE06	1	32	0%	100%	>1s
Leviton	Legrand	H703PTU	1	16	5%	100%	<1s
Leviton	Vizia	VZE04	1	21	1%	100%	<1s
Leviton	Acenti	ATX10	1	53	5%	100%	<1s
Lutron	Maestro	MAELV600	1	32	1%	100%	<1s
Lutron	Faendra	FAELV500	1	26	1%	100%	<1s
Lutron	Diva	DVELV303P	1	16	0%	96%	NA ⁽¹⁾
Lutron	Skylark	SELV300P	1	16	0%	98%	NA ⁽¹⁾
EWD	Smart	AAL06	1	16	5%	100%	<1s
Lightolier	Sunrise	ZP260QEW	1	13	5%	100%	<1s
Eaton	Aspire	9530AW	1	32	0%	100%	NA ⁽¹⁾
Eaton	Skye	SF8AP	1	51	16%	100%	<1s
Eaton	Devine	DE06P	1	32	0%	83%	NA ⁽¹⁾
Eaton	React	RI061	1	32	0%	100%	NA ⁽¹⁾
Eaton	Toggle	DAL06P	1	16	5%	100%	<1s
Eaton	Skye	SAL06P	1	16	5%	100%	<1s
Eaton	Skye	SLC03P	1	16	5%	98%	<1s
Eaton	Devine	DLC03P	1	16	5%	100%	<1s
Eaton	Toggle	TI061	1	32	0%	78%	NA ⁽¹⁾
Lutron(PANEL)	LCP128 (TRIAC)	LP-RPM-4U-120	1	102	0%	100%	NA ⁽¹⁾
Lutron(PANEL)	LCP128 (ELV)	LP-RPM-4A-120	1	64	0%	98%	NA ⁽¹⁾

SMD6S-EM - 6" Square Surface Downlight with Emergency Battery Backup, 1200 Lumen

Reference (continued)

Dimmer Make	Dimmer Series	Dimmer Model #	Minimum Luminaires (per circuit)	Maximum Recommended Luminaires (per circuit)	Min Dimming percentage (%)	Max Dimming percentage (%)	Low End Start Time
Ecospec(PANEL)	LDCM	LDCM-PL-120-277-010V-GR	1	24	0%	100%	NA ⁽¹⁾
Lutron	Ariadni	AY-600P	1	32	0%	97%	NA ⁽¹⁾
Lutron	Contour	CT-103P	1	53	0%	94%	NA ⁽¹⁾
Lutron	Contour	CT-600P	1	32	0%	95%	NA ⁽¹⁾
Lutron	Rotary	D-600P	1	32	0%	91%	NA ⁽¹⁾
Lutron	Diva	DV-600P	1	32	0%	94%	NA ⁽¹⁾
Lutron	Glyder	GL-600P	1	32	0%	95%	NA ⁽¹⁾
Lutron	Lumia	LG-600PH	1	32	0%	95%	NA ⁽¹⁾
Lutron	Maestro	MA-600	1	32	1%	96%	<1s
Lutron	Nova	N-600	1	32	0%	100%	NA ⁽¹⁾
Lutron	Skylark	S-600P	1	32	0%	94%	NA ⁽¹⁾
Lutron	Centurion	C-600P	1	32	0%	100%	NA ⁽¹⁾
Lutron	Ariadni	AYLV-600P	1	24	0%	97%	NA ⁽¹⁾
Lutron	Glyder	GLV-600	1	24	0%	100%	NA ⁽¹⁾
Lutron	Diva	DVLV-600P	1	24	0%	94%	NA ⁽¹⁾
Lutron	Lumina	LG-103P	1	53	0%	95%	NA ⁽¹⁾
Lutron	Skylark	SLV-600P	1	24	0%	96%	NA ⁽¹⁾
EWD	Universal	DUL06P-C7	1	16	5%	93%	<1s
Lutron	Nova	NTLV-600	1	16	0%	100%	NA ⁽¹⁾
Lutron	Nova	NT-600	1	24	0%	100%	NA ⁽¹⁾

1. Dim to off.

SMD6S-EM 0-10V Dimmer - For Reference Only

Dimmer Make	Dimmer Series	Dimmer Model #	Type of Dimmer	Minimum Luminaire	Maximum Luminaire (120V)	Maximum Luminaire (277V)	Max Dimming Range (%)	Minimum Dimming Range(%)	Low End Start Time
Eaton	Slide Dimmer	SF10P	0-10V	1	65	89	100	3	<1s
Eaton	Decorator Dimmer	DF10P	0-10V	1	65	89	100	3	<1s
Leviton	Illumatech	IP710-DL	0-10V	1	65	81	100	3	<1s
Lutron	NTFTV	NOVA T	0-10V	1	101	180	100	3	<1s
Lutron	DIVA	DVTV	0-10V	1	101	180	100	3	<1s
Cooper Lighting Solutions	Greengate	CK4A	0-10V	1	126	253	100	3	NA

SMD12-EM / SMD14-EM -
12" & 14" Round & Square Surface Downlight with Emergency Battery Backup, 1200 Lumen

0-10V Dimmer - For Reference Only

Dimmer Make	Dimmer Series	Dimmer Model #	Type of Dimmer	Minimum Luminaire	Maximum Luminaire (120V)	Maximum Luminaire (277V)	Max Dimming Range (%)	Minimum Dimming Range(%)	Low End Start Time
Eaton	Slide Dimmer	SF10P	0-10V	1	31	44	100	3	<1S
Eaton	Decorator Dimmer	DF10P	0-10V	1	31	44	99	3	<1S
Leviton	Illumatech	IP710-DL	0-10V	1	31	39	100	3	<1S
Lutron	NTFTV	NOVA T	0-10V	1	41	41	100	3	<1S
Lutron	DIVA	DVTV	0-10V	1	41	41	100	3	<1S
Cooper Lighting Solutions	Greengate	CK4A	0-10V	1	59	113	100	3	<1S

Dimmer Notes:

- 1) Start time is measured at the lowest dimmer setting.
- 2) Some LED dimmers have a "rapid start" design used to provide a momentary power boost to LED and CFL lamps during start-up. When a LED luminaire is on a dimmer with "rapid start" the boost may cause a momentary flash of the LED lighting. This "flash" is generated by the dimmer, and may be more noticeable when the dimmer is at a low setting. A solution is available with EATON dimmers which provide adjustment capability of the "rapid start": Devine (DAL06P), Accell (AAL06P), and Trace (TAL06P). Refer to product specifications online at www.eaton.com/lighting for more details.

Dimming Guide Disclaimer:

- 1) Leviton® is a registered trademark of Leviton Manufacturing Co. Inc.; Lutron® is a registered trademark of Lutron Electronics Co. Inc.; Lightolier® is a registered trademark of Philips Lighting; Hubbell® is a registered trademark of Hubbell Incorporated; Legrand® and Pass & Seymour® are registered trademarks of Legrand®; Eaton® is a registered trademark of Eaton Corporation. These companies and their tradenames, trademarks or brands, where noted, are associated with their respective company and are not associated with Cooper Lighting Solutions.
- 2) Testing conducted by Cooper Lighting Solutions is not a substitute for and does not imply certification by an independent laboratory or any other standards certification. Refer to the manufacturer specifications for more detailed information on product certifications and standards.
- 3) This is a representative list of typical dimmers as tested by Cooper Lighting Solutions for performance with the designated LED luminaires only. Test data contained in this literature is based upon dimmers obtained in the marketplace. Information about these other manufacturers products is obtained from packaging and published information made available by the manufacturer and is deemed to be reliable, but has not been verified. Dimmer performance and perceived limitations of the dimmers are based on factors outside of Cooper Lighting Solutions' control. The specifications of these dimming controls and their conditions of use may change without notice to Cooper Lighting Solutions or any other user. Cooper Lighting Solutions makes no specific recommendation on product selection and there are no warranties of performance or compatibility implied. Installer must ensure proper local and national electrical codes are followed; and that the dimmer application and condition of use is per dimmer manufacturer instructions and guidelines.

Application Note

H277, H347 and H347200 step-down transformers are qualified to drive multiple Halo LED on a single circuit in Non-IC construction. Installation of these transformers with individual LED fixtures on circuits with multiple LED loads is not recommended. This is not recommended due to resulting multiple inductive currents pulled by each transformer; in this situation the majority of the power would then be reactive (VARS) and not real (WATTS). If H277, H347 or H347200 transformers should be used individually on each LED fixture in a single circuit, then that circuit should be sized for lowered power factor as well as increased apparent power on the circuit. H277, H347 and H347200 are UL/cUL listed for use with Halo recessed housings: H750T, H750TCP, H7T, H7TNB, H7RT.

Step Down Transformers

H277 = Steps 277 line voltage down to 120 volts. Attaches to knockout on first fixture’s junction box in a circuit and is 300VA rated. H277 is a UL recognized Component listed under the luminaire UL/cUL listing for Halo Non-IC housings.

H347 and H347200 = Steps 347 line voltage down to 120 volts. Attaches to knockout on first fixture’s junction box in a circuit. H347 is 75VA and H347200 is 200VA rated. H347 is a CSA/UL Listed Component for use under the luminaire UL/cUL listing with Halo Non-IC housings.

Transformer Load - H277 (300VA)

1. H277 Transformer at full loading consumes a maximum of 16W of power.
2. When a dimmer or switch is on the secondary (120V) side of the transformer, power is consumed by the transformer when the dimmer or switch is in “OFF” mode at 6.5W and in “ON” mode at 16W maximum under full loading.
3. When a switch is on the primary (277V) side ahead of the transformer, power is consumed only in “ON” mode to a maximum of 16W under full loading. (Use of a dimmer ahead of the transformer is not recommended)

Transformer Load - H347 (75VA)

1. H347 Transformer at full loading consumes a maximum of 15W of power.
2. When a dimmer or switch is on the secondary (120V) side of the transformer, power is consumed by the transformer when the dimmer or switch is in “OFF” mode at 2.5W and in “ON” mode at 15W maximum under full loading.
3. When a switch is on the primary (347V) side ahead of the transformer, power is consumed only in “ON” mode to a maximum of 15W under full loading. (Use of a dimmer ahead of the transformer is not recommended)

Transformer Load - H347200 (200VA)

1. H347200 Transformer at full loading on 120V side consumes a maximum of 28W of power.
2. When a dimmer or switch is on the secondary (120V) side of the transformer, power is consumed by the transformer when the dimmer or switch is in “OFF” mode at 9.2W and in “ON” mode at 28W maximum under full loading.
3. When a switch is on the primary (347V) side ahead of the transformer, power is consumed only in “ON” mode to a maximum of 28W under full loading. When a switch is on the primary (277V) side ahead of the transformer, power is consumed only in “ON” mode to a maximum of 12W under full loading. (Use of a dimmer ahead of the transformer is not recommended)

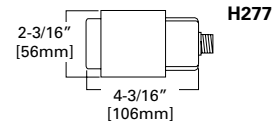
SMD - Surface LED Downlight Series

SMD Maximum Units on Step Down Transformer
Powered Circuits

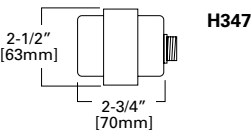
	VA Rating	Max # of Fixtures	SMD6 - 90 CRI Max # of Fixtures
H277	300	18	16
H347	75	4	4
H347200	200	12	10



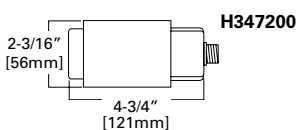
H277
277V Step Down Transformer,
300VA



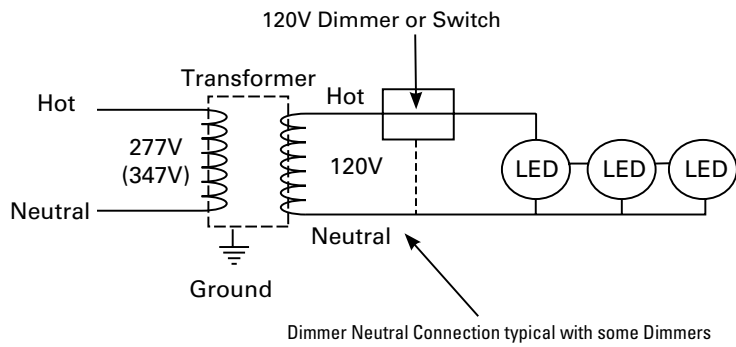
H347
347V Step Down Transformer,
75VA



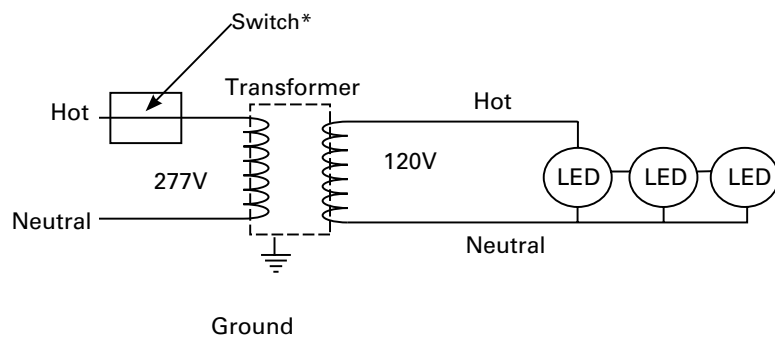
H347200
347V Step Down Transformer,
200VA



Transformer with Dimmer/Switch on 120V Secondary

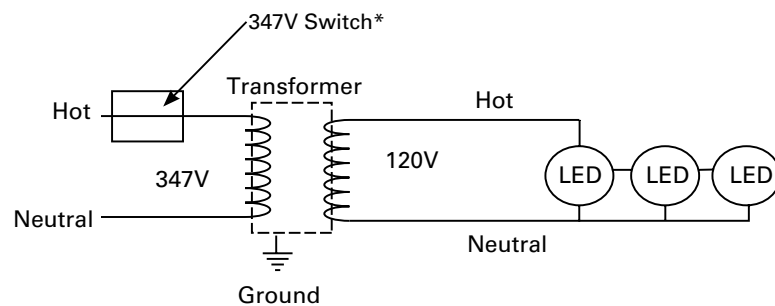


Transformer with Switch on 277V Primary



*Use of a dimmer ahead of the transformer is not recommended

Transformer with Switch on 347V Primary



*Use of a dimmer ahead of the transformer is not recommended

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: HALO

Report Number: P253155

Luminaire Tested: **SMD6R12940WHE**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253155
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1805-792-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: SMD6R12940WHE
Description: HALO 6" ROUND SURFACE MOUNT 1200LM UNV Voltage
Light Source: (49) 4000K CCT, 93 CRI LEDS
Ballast/Driver: LEEDARSON ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1260.0 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Circular (Dia: 0.52' x H: 0')
CIE Type: Direct

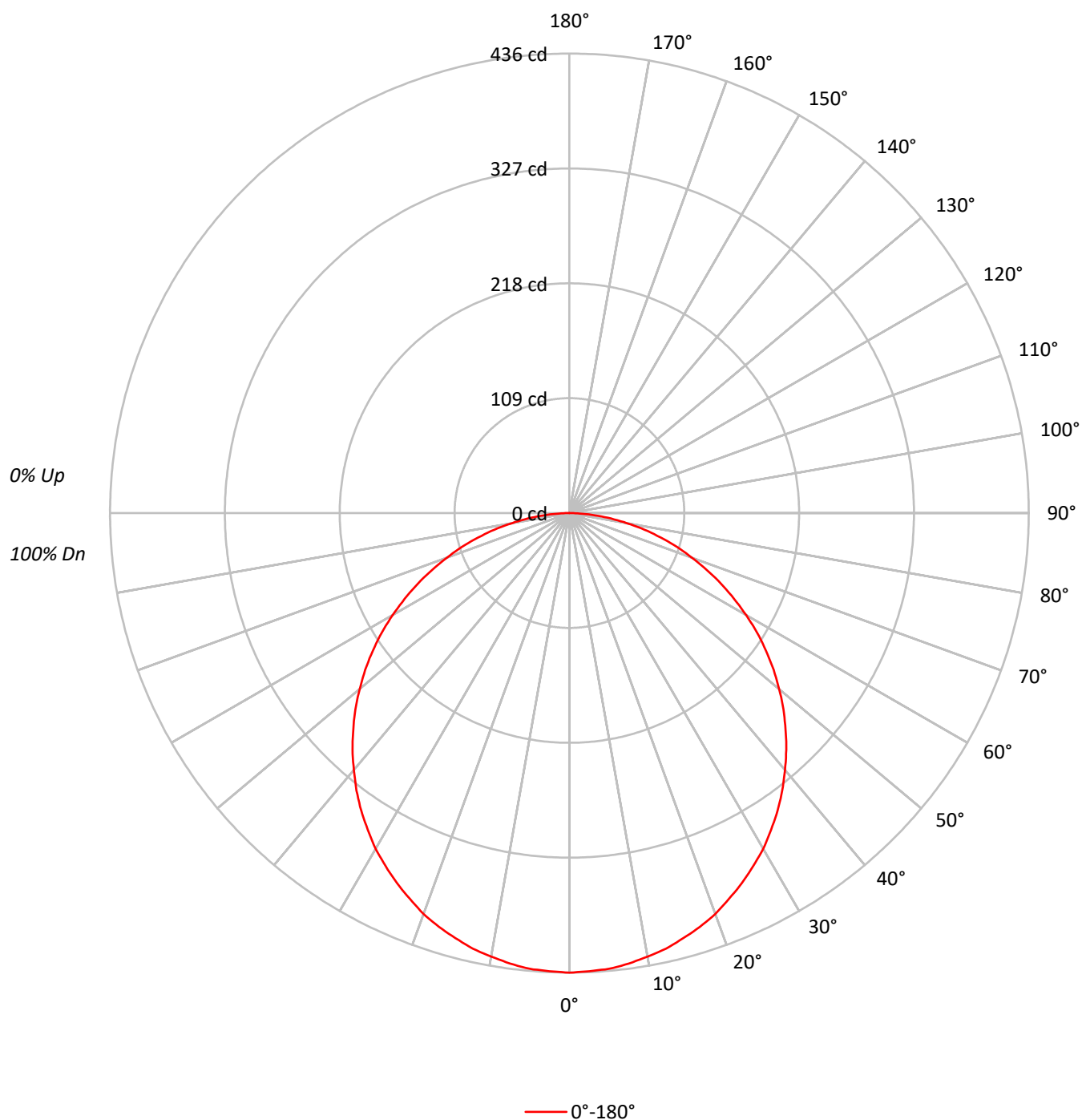
Input Watts (W): 15.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P253155

CATALOG NUMBER: SMD6R12940WHE

Luminous Intensity Polar Plot





TEST NUMBER: P253155

CATALOG NUMBER: SMD6R12940WHE

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20
RC	80					70					50					30					0
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	104	99	95		106	101	97	94		97	94	91		93	90	88		89	87	85
2	98	90	83	77		96	88	82	76		85	79	74		81	77	73		78	74	71
3	90	79	71	64		87	77	70	63		74	68	62		71	66	61		69	64	60
4	82	70	61	54		80	68	60	54		66	59	53		64	57	52		61	56	51
5	75	62	53	46		73	61	53	46		59	51	46		57	50	45		55	49	45
6	70	56	47	40		68	55	47	40		53	46	40		52	45	40		50	44	39
7	64	51	42	36		63	50	42	36		48	41	35		47	40	35		46	39	35
8	60	46	38	32		58	46	37	32		44	37	32		43	36	31		42	36	31
9	56	42	34	29		55	42	34	29		41	33	28		40	33	28		39	33	28
10	53	39	31	26		51	39	31	26		38	31	26		37	30	26		36	30	25

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	22033
5°	22016
10°	21921
15°	21842
20°	21769
25°	21596
30°	21463
35°	21254
40°	20993
45°	20727
50°	20428
55°	20065
60°	19572
65°	18972
70°	18258
75°	17471
80°	16148
85°	14086



TEST NUMBER: P253155

CATALOG NUMBER: SMD6R12940WHE

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.2	3.3
10°-20°	117.9	9.4
20°-30°	178.6	14.2
30°-40°	215.5	17.1
40°-50°	223.9	17.8
50°-60°	203.6	16.2
60°-70°	157.0	12.5
70°-80°	94.7	7.5
80°-90°	27.7	2.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	337.7	26.8
0°-40°	553.2	43.9
0°-60°	980.6	77.8
0°-90°	1260.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1260.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	436	
5°	434	41
15°	418	118
25°	387	179
35°	345	215
45°	290	224
55°	228	204
65°	159	157
75°	90	95
85°	24	28
90°	0	



TEST NUMBER: P253155

CATALOG NUMBER: SMD6R12940WHE

CANDELA DISTRIBUTION (FULL):

	0°
0°	436.1
2.5°	435.1
5°	434.1
7.5°	431.2
10°	427.3
12.5°	423.4
15°	417.6
17.5°	411.7
20°	404.9
22.5°	396.1
25°	387.4
27.5°	377.7
30°	367.9
32.5°	356.2
35°	344.6
37.5°	331.9
40°	318.3
42.5°	304.7
45°	290.1
47.5°	275.5
50°	259.9
52.5°	244.3
55°	227.8
57.5°	211.2
60°	193.7
62.5°	176.2
65°	158.7
67.5°	141.1
70°	123.6
72.5°	107.1
75°	89.5
77.5°	73.0
80°	55.5
82.5°	39.9
85°	24.3
87.5°	9.7
90°	0.0

(END OF REPORT)