

Project		Catalog #		Type	
Prepared by		Notes		Date	



HALO

SMX18 Edgeless Surface Mount LED Downlights

The SMX series redefines the surface downlighting experience. With a fully luminous lens face, this series provides exceptional light quality with a sleek, edgeless design that blends effortlessly into any ceiling. The SMX fixtures are engineered to offer a versatile downlighting solution with selectable lumens and color temperatures including dim-to-warm in flicker-free phase cut or 0-10V dimming options. The innovative mounting method ensures a hassle-free installation that seats the fixture securely against the ceiling in either junction boxes or recessed housings. Upgrade your lighting experience with the SMX series and enjoy a seamless blend of style and functionality.

Typical Applications

Residential • Multifamily • Hospitality • Healthcare • Retail

Interactive Menu

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- Product Warranty

Product Certification¹



Can be used to comply with California Title 24 High Efficacy requirements. Certified to California Appliance Efficiency Database under JA8.

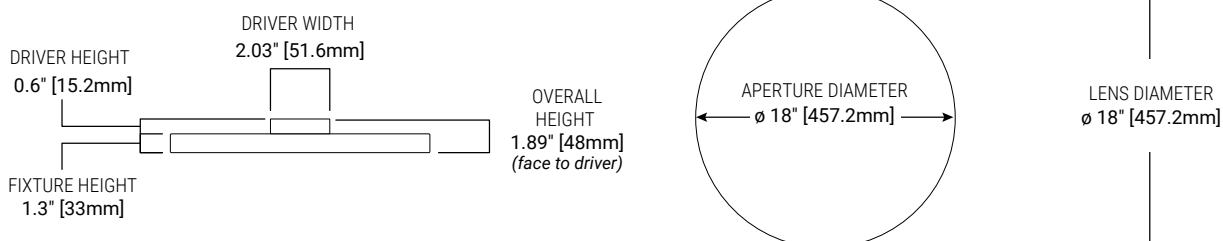
Product Features



Top Product Features

- 18" Surface Mount Edgeless Design in Round or Square
- Fully luminous edge-to-edge lens with no front face flange
- **Phase Cut Dimming - 6-Position Switch:** 5-color Field SeleCCTable (2700K,3000K,3500K,4000K,5000K) + Dim-to-Warm (3000K dims to 1800K); 90+ CRI
- **0-10V Dimming - 5-Position Switch:** 5-color Field SeleCCTable (2700K,3000K,3500K,4000K,5000K); 90+ CRI
- **Brightness:** Lumen Select 1500/2000/2500 lm (nominal)
- **Dimming:** Dims to less than 5% with compatible dimmers in either phase cut LE/TE, 120V or 0–10V, 120–277V
- Mounting hardware, orange LED Quick Connect and E26 adapter included
- Edgeless Decorative Overlays (sold separately)
- AIR-TITE, wet location-listed, IC-rated
- 50,000 hrs of maintenance-free operation
- 5-year warranty

Dimensional and Mounting Details



additional product diagrams

Order Information









Catalog Number	Description	Lumens (nominal)	CCT	Finish	Driver Compatibility	Packaging
SMX18RLSFSD2W	18" Round Surface Mount LED Downlight	Lumen Selectable: 1500/2000/2500 lm	90+ CRI, Field Selectable CCT: Dim-to-Warm/2700/3000/3500/4000/5000K	Matte White	Phase Cut LE/TE 5%; 120V	Plastic-free recyclable
SMX18RLSFS010	18" Round Surface Mount LED Downlight	Lumen Selectable: 1500/2000/2500 lm	90+ CRI, Field Selectable CCT: 2700/3000/3500/4000/5000K	Matte White	0-10V 5%; 120-277V	Plastic-free recyclable
SMX18SLSFSD2W	18" Square Surface Mount LED Downlight	Lumen Selectable: 1500/2000/2500 lm	90+ CRI, Field Selectable CCT: Dim-to-Warm/2700/3000/3500/4000/5000K	Matte White	Phase Cut LE/TE 5%; 120V	Plastic-free recyclable
SMX18SLSFS010	18" Square Surface Mount LED Downlight	Lumen Selectable: 1500/2000/2500 lm	90+ CRI, Field Selectable CCT: 2700/3000/3500/4000/5000K	Matte White	0-10V 5%; 120-277V	Plastic-free recyclable

Accessories		
Catalog Number	Description	Finish
SMX18RTRMMW	18" Round Decorative Overlay	Paintable Matte White
SMX18RTRMMB	18" Round Decorative Overlay	Matte Black
SMX18RTRMSN	18" Round Decorative Overlay	Satin Nickel
SMX18STRMMW	18" Square Decorative Overlay	Paintable Matte White
SMX18STRMMB	18" Square Decorative Overlay	Matte Black
SMX18STRMSN	18" Square Decorative Overlay	Satin Nickel

Designer Trims



Compatible Junction Boxes²

	Octagon Steel Light Fixture w/Fan Box 4" x 4" x 2-1/8"		Round Old Work Box (Plastic) 4-1/4" Diameter flange (3-1/2" I.D.) x 2-3-4"
	Square Steel Deep Box 4" x 4" x 2-1/8"		Round New Work Fixture Box (Plastic) w/Bar Hanger 4" x 2-3/16"
	Round New Work Fixture Box (Plastic) 4" Diameter x 2-3-16"		TP316 For non-metallic cable 4" x 4" x 2-1/8"
	Round New Work Ceiling Box (Plastic) 3-1/2" Diameter x 2-3-4"		TP317 For metal clad cable 4" x 4" x 2-1/8"

² 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

Module

- The LED surface mount downlight consists of an LED array, optical assembly, driver, and edgeless trim
- Achieves L70 at 50,000 hrs in IC (insulation contact) and non-IC applications

Selectable System

- Use the CCT select switch to choose between Dim-to-Warm (D2W), 2700K, 3000K, 3500K, 4000K, and 5000K CCT
 - Note:** D2W only available for phase cut fixtures
- Dim-to-Warm option starts at 3000K and warms to 1800K as the fixture dims
- Factory default is set to 3000K
- Use the 3-position Lumen Select switch to choose the brightness level (Low, Medium, High)
- Lumen Select factory default is to the highest lumen option

LED Array

- Mid-power LED array provides a uniform light source with high efficiency and no pixilation
- 90+ CRI minimum, R9 greater than 50
- Color accuracy at 3SCDM at the end points provides color consistency and uniformity

Driver

- Integral 120V 60Hz constant current driver provides noise-free, high-efficiency operation
- Phase Cut Dimming: Continuous, flicker-free dimming from 100% to 5% with compatible leading or trailing edge (LE/TE) 120V phase cut dimmers; (See Dimming Guide for compatible dimmers.)
- 0-10V Dimming: Continuous, flicker-free dimming from 100% to 5% with compatible 0-10V 120-277V dimmer; (See Dimming Guide for compatible dimmers.)

- Tip: For optimal dimming performance, consider dimmers with low-end trim adjustment; Note that some dimmers require a neutral wire in the box.
- Wiring: Includes optional inline electrical orange LED Quick Connect

Electrical Junction Box Mounting

- Twist and lock steel mounting bracket to fit snugly to the ceiling
- Installs from below the ceiling in most 30 (3-1/2") and 40 (4") standard round/octagonal junction boxes along with compact (pancake) junction boxes
- May be used in compatible electrical junction boxes in direct contact with insulation, including spray foam insulation
- Installer must ensure compatibility of fit, wiring, and proper mounting in the electrical junction box. This includes all applicable national and local electrical along with building coded NEMA LSD 57-2013.
- Reference installation instructions for complete mounting steps

Gasket

- Closed-cell gasket achieves restrictive airflow requirements without additional caulking.

Decorative Overlays (sold separately)

- Overlays cover the edge of the fixture while maintaining the edgeless design and are sold as an accessory for a designer finish
 - Paintable Matte White
 - Satin Nickel
 - Matte Black

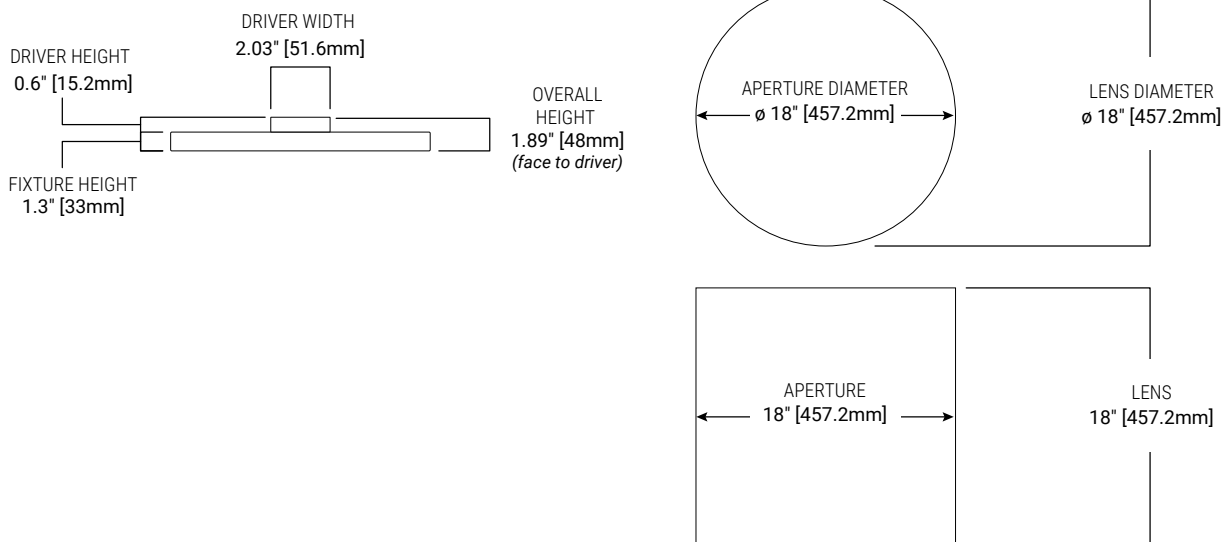
Compliance

- cULus certified for US and Canada
- Wet Location listed for showers and covered outdoor ceilings
- Airtight per ASTM-E283 (no gasket necessary)
- Suitable for use in clothes closets when installed in accordance with the NEC 410.16 spacing requirements
- EMI/RFI emissions per FCC 47CFR Part 15 consumer limits
- 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 LED compliance under JA8*, reference Modernized Appliance Efficiency Database System (MAEDBS) for 2022 JA8 High Efficacy Lighting

Warranty

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

Dimensional and Mounting Details



*T24 and RoHS are self-tested by Cooper Lighting Solutions. Not a third party certification.

Energy Data

	120V (Triac)		120V-277V (0-10V)			
	Round	Square	Round		Square	
	SMX18RLSFS010	SMX18SLSFS010	SMX18RLSFS010		SMX18SLSFS010	
Lumens	1500	1500	1500	1500	1500	1500
Input Voltage (V)	120V	120V	120V	277V	120V	277V
Input Current (A)	0.14233A	0.14133A	0.14233A	0.068A	0.1472A	0.069A
Input Power (W)	16.54W	16.4W	16.54W	18.33W	17.58W	18.17W
Efficiency	84.99%	84.95%	84.70%	84%	84.90%	84.60%
Inrush (A)	1.51A@130usec	1.51A@130usec	3.3A@57usec	4.8A@68usec	3.1A@56usec	4.6A@63usec
THDi (%)	11.95%	12.01%	7.50%	16.40%	7.30%	16.30%
PF	0.969	0.967	0.969	0.936	0.996	0.935
T Ambient	-30 to +40 °C	-30 to +40 °C	-30 to +40 °C	-30 to +40 °C	-30 to +40 °C	-30 to +40 °C
Sound Rating	<22dBA	<22dBA	<22dBA	<22dBA	<22dBA	<22dBA
Efficacy(LPW)	98.15	95.66	98.15	98.15	103.3	103.3
Lumens	2000	2000	2000	2000	2000	2000
Input Voltage (V)	120V	120V	120V	277V	120V	277V
Input Current (A)	0.19987A	0.19783A	0.19987A	0.089A	0.19873A	0.087A
Input Power (W)	23.53W	23.26W	23.53W	24.45W	23.73W	24.28W
Efficiency	84.30%	84.48%	85.10%	85.50%	84.80%	85.30%
Inrush (A)	1.51A@130usec	1.51A@130usec	3.3A@57usec	4.8A@68usec	3.1A@56usec	4.6A@63usec
THDi (%)	11.12%	11.31%	9.20%	11.60%	9.40%	11.40%
PF	0.981	0.98	0.981	0.961	0.996	0.963
T Ambient	-30 to +40 °C	-30 to +40 °C	-30 to +40 °C	-30 to +40 °C	-30 to +40 °C	-30 to +40 °C
Sound Rating	<22dBA	<22dBA	<22dBA	<22dBA	<22dBA	<22dBA
Efficacy(LPW)	95.25	93.04	95.25	95.25	100.45	100.45
Lumens	2500	2500	2500	2500	2500	2500
Input Voltage (V)	120V	120V	120V	277V	120V	277V
Input Current (A)	0.25187A	0.25063A	0.25187A	0.109A	0.24837A	0.111A
Input Power (W)	29.79W	29.63W	29.79W	30.57W	29.63W	30.49W
Efficiency	83.68%	83.63%	85.30%	86.10%	85.30%	86.10%
Inrush (A)	1.51A@130usec	1.51A@130usec	3.3A@57usec	4.8A@68usec	3.1A@56usec	4.6A@63usec
THDi (%)	11.08%	11.24%	10.20%	9.30%	9.60%	9.20%
PF	0.986	0.985	0.986	0.978	0.995	0.977
T Ambient	-30 to +40 °C	-30 to +40 °C	-30 to +40 °C	-30 to +40 °C	-30 to +40 °C	-30 to +40 °C
Sound Rating	<22dBA	<22dBA	<22dBA	<22dBA	<22dBA	<22dBA
Efficacy(LPW)	91.89	89.73	91.89	91.89	97.32	97.32

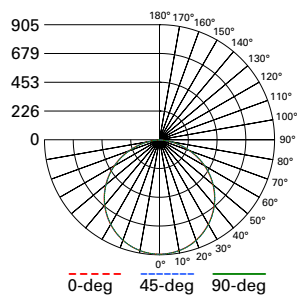
SMX18RLSFS02W (Equivalent to 125W Incandescent)				
CCT	Watts	Lumens	LPW	CRI
2700K	30.3	2565	84.7	93
3000K	30.4	2640	86.8	94
3500K	30.4	2695	88.7	95
4000K	30.5	2750	90.2	95
5000K	30.2	2815	93.2	92

SMX18SLSFS02W (Equivalent to 125W Incandescent)				
CCT	Watts	Lumens	LPW	CRI
2700K	29.7	2475	83.3	93
3000K	30.0	2530	84.3	94
3500K	30.0	2585	86.2	95
4000K	30.0	2630	87.7	94
5000K	29.7	2700	90.9	93

SMX18RLSFS010 (Equivalent to 125W Incandescent)				
CCT	Watts	Lumens	LPW	CRI
2700K	29.4	2755	93.7	93
3000K	29.4	2805	95.4	94
3500K	29.4	2870	97.6	95
4000K	29.4	2930	99.7	94
5000K	29.3	3000	102.4	93

SMX18SLSFS010 (Equivalent to 125W Incandescent)				
CCT	Watts	Lumens	LPW	CRI
2700K	30.0	2735	91.2	92
3000K	30.0	2800	93.3	94
3500K	30.0	2870	95.7	94
4000K	30.0	2930	97.7	94
5000K	30.0	3005	100.2	92

Photometric Data



SMX18RLSFS2W-2500LM-3000K

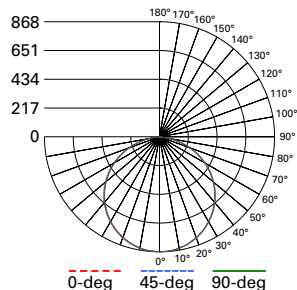
Spacing criterion:
(0-180) 1.27 | (90-270) 1.27 |
(Diagonal) 1.39
Beam Angle: 115°
Field Angle: 162°
Lumens: 2640
Input Watts: 30.4 W
Efficacy: 86.8 LPW
UGR: 19
Test Report: P869722

Zonal Lumen	Lumens	% Lumens
0-30	706	26.7
0-40	1161	44
0-60	2072	78.5
0-90	2640	100

CCT: Range of 2700K - 5000K

Dim-to-Warm: Range of 1800K - 3000K

TM-30-15	Rf = 92
	Rg = 99
CRI/CIE	Ra = 95.5
	R9 = 72.6



SMX18SLSFS2W-2500LM-3000K

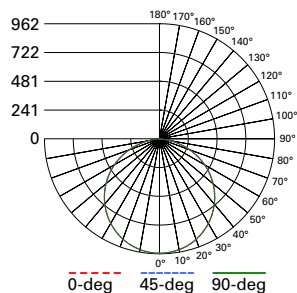
Spacing criterion:
(0-180) 1.27 | (90-270) 1.27 |
(Diagonal) 1.39
Beam Angle: 115°
Field Angle: 162°
Lumens: 2530
Input Watts: 30 W
Efficacy: 84.3 LPW
UGR: 18
Test Report: P869752

Zonal Lumen	Lumens	% Lumens
0-30	676	26.7
0-40	1112	43.9
0-60	1985	78.5
0-90	2530	100

CCT: Range of 2700K - 5000K

Dim-to-Warm: Range of 1800K - 3000K

TM-30-15	Rf = 92
	Rg = 99
CRI/CIE	Ra = 95.2
	R9 = 71



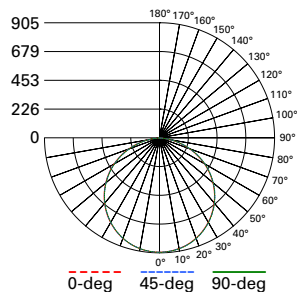
SMX18RLSFS010-2500LM-3000K

Spacing criterion:
(0-180) 1.27 | (90-270) 1.27 |
(Diagonal) 1.39
Beam Angle: 115°
Field Angle: 162°
Lumens: 2805
Input Watts: 29.4 W
Efficacy: 95.4 LPW
UGR: 19
Test Report: P869707

Zonal Lumen	Lumens	% Lumens
0-30	750	26.7
0-40	1233	44
0-60	2201	78.5
0-90	2805	100

CCT: Range of 2700K - 5000K

TM-30-15	Rf = 92
	Rg = 99
CRI/CIE	Ra = 95.5
	R9 = 72.6



SMX18SLSFS010-2500LM-3000K

Spacing criterion:
(0-180) 1.27 | (90-270) 1.27 |
(Diagonal) 1.39
Beam Angle: 115°
Field Angle: 162°
Lumens: 2800
Input Watts: 30 W
Efficacy: 93.3 LPW
UGR: 18
Test Report: P869737

Zonal Lumen	Lumens	% Lumens
0-30	748	26.7
0-40	1230	43.9
0-60	2197	78.5
0-90	2800	100

CCT: Range of 2700K - 5000K

TM-30-15	Rf = 92
	Rg = 99
CRI/CIE	Ra = 95.2
	R9 = 71

