Project	Catalog #	Туре	
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 dimto-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

- Order Information page 2
- Product Specifications page 3
- · Energy Data page 4
- Photometric Data page 5
- Product Warranty













Can be used to comply with California Title 24 High Efficacy requirements Certified to California Appliance Efficiency Database under JA8. 1







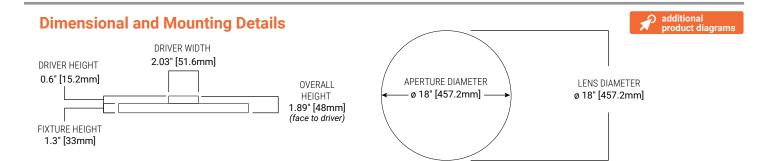






Top Product Features

- · 18" Surface Mount Edgeless Design in Round or Square
- · Fully luminous edge-to-edge lens with no front face flange
- Field-SeleCCTable (90+ CRI):
 - Phase Cut Versions: 6-Position Switch with 5 CCT (27/30/35/40/5000K) + Dim-to-Warm (3000K dims to 1800K)
 - 0-10V Versions: 5 CCT (27/30/35/40/5000K)
- 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





Order Information

Catalog Number	Description	Lumens (nominal)	сст	Finish	Driver Compatibilty	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		
SMX18RTRMTBZ	18" Round Decorative Overlay	Tuscan Bronze		
SMX18STRMMW	18" Square Decorative Overlay	Paintable Matte White		
SMX18STRMMB	18" Square Decorative Overlay	Matte Black		
SMX18STRMSN 18" Square Decorative Overlay		Satin Nickel		
SMX18STRMTBZ	18" Square Decorative Overlay	Tuscan Bronze		

Designer Trims









SMX18RTRMMW

Matte Black







SMX18STRMMW

SMX18STRMMB Matte Black

SMX18STRMSN

SMX18STRMTBZ

Compatible Junction Boxes²



Steel Light Fixture w/Fan Box



Square Steel Deep Box 4" x 4" x 2-1/8"



New Work Fixture Box (Plastic) 4" Diameter x 2-3-16"



Round New Work Ceiling Box (Plastic) 3-1/2" Diameter x 2-3-4



Old Work Box (Plastic) 4-1/4" Diameter flange (3-1/2" I.D.) x 2-3-4"



New Work Fixture Box (Plastic) w/Bar Hanger 4" x 2-3/16'



TP316 For non-metallic cable 4" x 4" x 2-1/8'



TP317 For metal clad cable 4" x 4" x 2-1/8'



JB4FR2 4" NC JBox for Fire Rated Ceilings 4" diameter x 5-1/2 (102mm x 140mm)

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.

SMX18 Edgless Surface Mount LED Downlights

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

Drive

- 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 diming 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 hoy.
- 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 hoxes
- 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

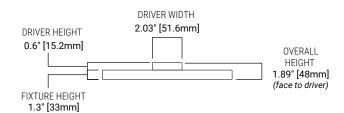
Compliance

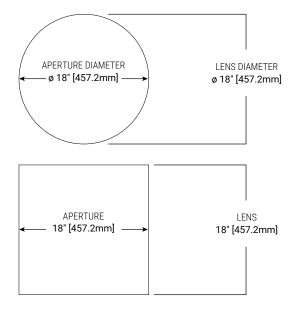
- · cULus certified for US and Canada
- Wet Location listed for showers and covered outdoor ceilings
- · Airtight per ASTM-E283 (no gasket necessary)
- Suitable for use in clothes closets when installed in accordance with the NEC 410.16 spacing requirements.
- EMI/RFI emissions per FCC 47CFR Part 15 consumer limits
- Contains no mercury or lead and RoHS compliant¹
- 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 JA8¹, reference Modernized Appliance Efficiency Database System (MAEDBS) for 2022 JA8 High Efficacy Lighting

Warranty

 Five year limited warranty, consult website for details. <u>www.cooperlighting.com/warranty</u>

Dimensional and Mounting Details







SMX18 Edgless Surface Mount LED Downlights

Energy Data

3,	120V	(Triac)		120V-277	V (0-10V)	
	Round	Round Square		und	Squ	Jare
	SMX18RLSFSD2W	SMX18SLSFSD2W	SMX18R	LSFS010	SMX18S	LSFS010
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					
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					
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					
Sound Rating	<22dBA	<22dBA	<22dBA	<22dBA	<22dBA	<22dBA
Efficacy(LPW)	91.89	89.73	91.89	91.89	97.32	97.32

SMX18RLSFSD2W (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	

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	

SMX18SLSFSD2W (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	

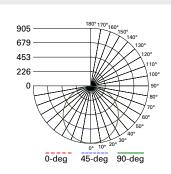
SMX18SLSFS010 (Equivalent to 125W Incandescent)						
CCT	Watts	Lumens	LPW	CRI		
2700K	30.0	2735	91.2	92		
3000K	30.0	2800	93.3	94		
3500K	30.0	2870	95.7	94		
4000K	30.0	2930	97.7	94		
5000K	30.0	3005	100.2	92		



SMX18 Edgless Surface Mount LED Downlights

Photometric Data





SMX18RLSFSD2W-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

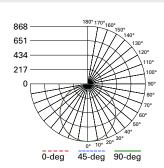
Zonal Lumen	Lumens	% Lumens
0-30	706	26.7
0-40	1161	44
0-60	2072	78.5
0-90	2640	100

CCT: Range of 2700K - 5000K

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







SMX18SLSFSD2W-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

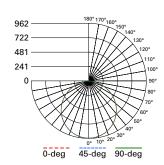
Zonal Lumen	Lumens	% Lumens
0-30	676	26.7
0-40	1112	43.9
0-60	1985	78.5
0-90	2530	100

CCT: Range of 2700K - 5000K

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







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

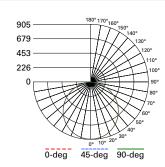
Test Report: P869707

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







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

