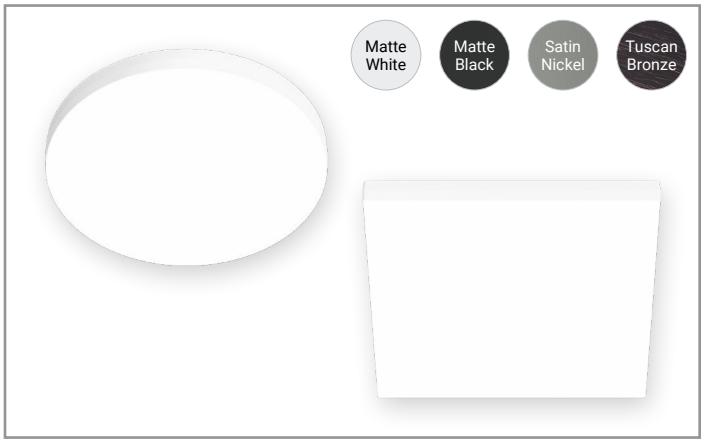
Project		Catalog #		Type	
Prepared by		Notes		Date	



HALO

SMX14 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

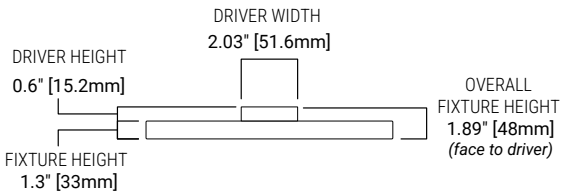
- Order Information page 2
- Product Specifications page 3
- Energy Data page 4
- Photometric Data page 6
- Product Warranty

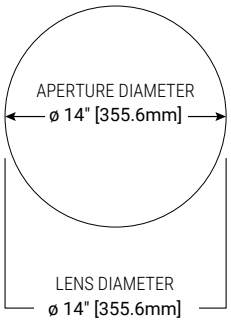
Can be used to comply with California Title 24 High Efficacy requirements.[1]
Certified to California Appliance Efficiency Database under JA8.[1]

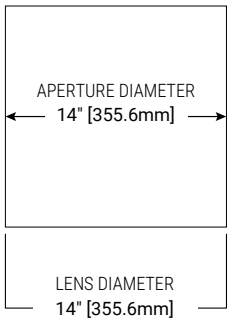
Top Product Features

- 14" 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 1200/1600/2000 lm (nominal)
- **Dimming:** Dims to less than 5% with compatible dimmers in either phase cut LE/TE (120V) or 0–10V (120–277V)
- Mounting bracket, hardware
- 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







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

Order Information

Catalog Number	Description	Lumens (nominal)	CCT	Finish	Driver Compatibilty	Packaging
SMX14RLSFSD2W	14" Round Surface Mount LED Downlight	Lumen Selectable: 1200/1600/2000 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
SMX14RLSFS010	14" Round Surface Mount LED Downlight	Lumen Selectable: 1200/1600/2000 lm	90+ CRI, Field Selectable CCT: 2700/3000/3500/4000/5000K	Matte White	0-10V 5%; 120-277V	Plastic-free recyclable
SMX14SLSFSD2W	14" Square Surface Mount LED Downlight	Lumen Selectable: 1200/1600/2000 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
SMX14SLSFS010	14" Square Surface Mount LED Downlight	Lumen Selectable: 1200/1600/2000 lm	90+ CRI, Field Selectable CCT: 2700/3000/3500/4000/5000K	Matte White	0-10V 5%; 120-277V	Plastic-free recyclable

Accessories – Decorative Trim Overlays (order separately)

Add a touch of style and personality to spaces with HALO Decorative Overlays by matching existing hardware or painted finishes.

Accessories		
Catalog Number	**Description**	**Finish**
SMX14RTRMMW	14" Round Decorative Overlay	Paintable Matte White
SMX14RTRMMB	14" Round Decorative Overlay	Matte Black
SMX14RTRMSN	14" Round Decorative Overlay	Satin Nickel
SMX14RTRMTBZ	14" Round Decorative Overlay	Tuscan Bronze
SMX14STRMMW	14" Square Decorative Overlay	Paintable Matte White
SMX14STRMMB	14" Square Decorative Overlay	Matte Black
SMX14STRMSN	14" Square Decorative Overlay	Satin Nickel
SMX14STRMTBZ	14" Square Decorative Overlay	Tuscan Bronze

Accessories – 3D Printed Decorative Trim Shades (order separately)

Snap-on 3D printed shades designed to fit HALO SMX Surface Mount downlights, adding depth, texture, and a more architectural look. Easily upgrade the fixture's appearance with distinctive forms that bring a custom, design-forward feel to any space.

Accessories				
Catalog Number	**Description**	**Finish**	**Diameter**	**Height**
SMX1410	14" SMX 3DP Trim Mini Drop	Clear	14"	1.86"
SMX1420	14" SMX 3DP Trim Drop	Clear	14"	2.84"
SMX1440	14" SMX 3DP Trim Bowl	Clear	14"	2.92"

Accessories – Emergency Power (order separately)

Emergency power to connected fixtures during outages. Automatically switches on and dims fixtures for extended runtime.

Emergency Power Accessories	
Catalog Number	**Description**
INVM-10W-AD	Single Phase 0-10V Auto Dimming (can power up to 1 SMX 14" fixtures)
INVM-25W-ADSD	Single Phase 0-10V Auto Dimming (can power up to 7 SMX 14" fixtures)

SMX1410
Mini Drop

SMX1420
Drop

SMX1440
Bowl

Compatible Junction Boxes[2]

Octagon
Steel Light Fixture w/Fan Box
4" x 4" x 2-1/8"

Round
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"

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

Round
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.

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 endpoints 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 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 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 3O (3-1/2") and 4O (4") standard round/octagonal junction boxes
- May be used in compatible electrical junction boxes in direct contact with 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

Emergency Mini Inverter
- Provides 90 minutes of 10VA emergency power to lighting fixtures
- 0-10V Auto dimming allows up to 50VA max dimmable load
- 10VA max non-dimmable load
- Automatic 120VAC or 277VAC output power to driver or ballast means easy field install
- UL924 and CSA 22.2 No.141 listed for field or factory installation
- Remote mounting up to 250feet
- Maintenance free lithium-ion battery
- See Mini Inverter Spec Sheet for more information

Compliance
- cULus certified for US and Canada
- Wet Location listed for showers and covered outdoor ceilings
- Airtight per ASTM-E283
- 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[1]
- 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[1], 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

1. 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	
	SMX14RLSFSD2W	SMX14SLSFSD2W	SMX14RLSFS010		SMX14SLSFS010	
Lumens	1200	1200	1200	1200	1200	1200
Input Voltage (V)	120V	120V	120V	277V	120V	277V
Input Current (A)	0.1324A	0.13137A	0.1202A	0.054A	0.12043A	0.054A
Input Power (W)	15.33W	15.2W	14.35W	14.207W	14.37W	14.11W
Efficiency	83.23%	83.10%	84.10%	83.10%	84.60%	83.90%
Inrush (A)	1.55A@56usec	1.52A@64.8usec	2.96A@38usec	4.5A@62usec	2.96A@38usec	4.5A@62usec
THDi (%)	11.80%	11.80%	6.30%	17.10%	6.80%	17.10%
PF	0.964	0.963	0.964	0.925	0.994	0.924
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)	95.09	93.01	97.85	97.85	97.42	97.42
Lumens	1600	1600	1600	1600	1600	1600
Input Voltage (V)	120V	120V	120V	277V	120V	277V
Input Current (A)	0.17437A	0.17267A	0.17087A	0.076A	0.17083A	0.071A
Input Power (W)	20.43W	20.22W	20.41W	20.7W	20.41W	20.87W
Efficiency	82.89%	83.02%	84.70%	85%	85.20%	85.10%
Inrush (A)	1.55A@56usec	1.52A@64.8usec	2.96A@38usec	4.5A@62usec	2.96A@38usec	4.5A@62usec
THDi (%)	10.60%	10.60%	7.40%	11.30%	7.40%	11.30%
PF	0.976	0.976	0.976	0.961	0.995	0.961
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)	92.77	91.26	94.97	94.97	94.73	94.73
Lumens	2000	2000	2000	2000	2000	2000
Input Voltage (V)	120V	120V	120V	277V	120V	277V
Input Current (A)	0.22180A	0.22027A	0.21513A	0.088A	0.2151A	0.094A
Input Power (W)	26.16W	25.96W	25.69W	25.9W	25.68W	25.78W
Efficiency	82.20%	82.08%	84.60%	85.40%	85.20%	85.50%
Inrush (A)	1.55A@56usec	1.52A@64.8usec	2.96A@38usec	4.5A@62usec	2.96A@38usec	4.5A@62usec
THDi (%)	10.40%	10.20%	9.20%	8.50%	9.40%	8.50%
PF	0.983	0.982	0.983	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)	89.64	88.45	92.11	92.11	91.96	91.96

SMX14RLSFSD2W *(Equivalent to 125W Incandescent)*

CCT	Watts	Lumens	LPW	CRI
2700K	26.4	2250	85.2	92
3000K	26.5	2300	86.8	93
3500K	26.5	2350	88.7	94
4000K	26.5	2400	90.6	94
5000K	26.4	2445	92.6	92

SMX14SLSFSD2W *(Equivalent to 125W Incandescent)*

CCT	Watts	Lumens	LPW	CRI
2700K	26.2	2210	84.4	92
3000K	26.3	2250	85.6	93
3500K	26.3	2290	87.1	94
4000K	26.3	2325	88.4	94
5000K	26.2	2365	90.3	93

SMX14RLSFS010 *(Equivalent to 125W Incandescent)*

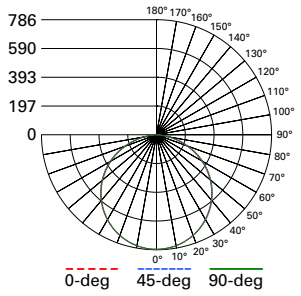
CCT	Watts	Lumens	LPW	CRI
2700K	26.0	2270	87.3	92
3000K	26.1	2310	88.5	94
3500K	26.1	2345	89.8	94
4000K	26.0	2385	91.7	94
5000K	26.0	2420	93.1	92

SMX14SLSFS010 *(Equivalent to 125W Incandescent)*

CCT	Watts	Lumens	LPW	CRI
2700K	25.9	2220	85.7	93
3000K	25.9	2260	87.3	93
3500K	25.9	2300	88.8	95
4000K	25.9	2340	90.3	94
5000K	25.7	2390	93.0	93

Photometric Data

View IES files



SMX14RLSFSD2W-2000LM-3000K

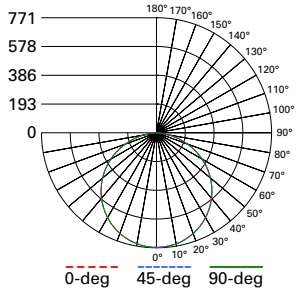
Spacing criterion:
(0-180) 1.27 | (90-270) 1.27 | (Diagonal) 1.39
Beam Angle: 115°
Field Angle: 162°
Lumens: 2300
Input Watts: 26.5 W
Efficacy: 86.8 LPW
UGR: 20
Test Report: P869662

Zonal Lumen	Lumens	% Lumens
0-30	613	26.7
0-40	1009	43.9
0-60	1804	78.4
0-90	2300	100

CCT: Range of 2700K - 5000K

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

TM-30-15	Rf = 92
	Rg = 99
CRI/CIE	Ra = 95.3
	R9 = 71.5



SMX14SLSFSD2W-2000LM-3000K

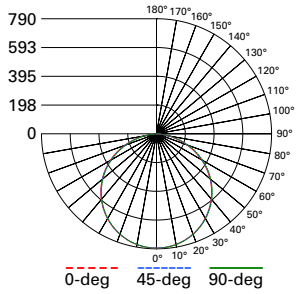
Spacing criterion:
(0-180) 1.27 | (90-270) 1.27 | (Diagonal) 1.39
Beam Angle: 115°
Field Angle: 162°
Lumens: 2250
Input Watts: 26.3 W
Efficacy: 85.6 LPW
UGR: 19
Test Report: P869692

Zonal Lumen	Lumens	% Lumens
0-30	601	26.7
0-40	988	43.9
0-60	1765	78.5
0-90	2250	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 = 72.9



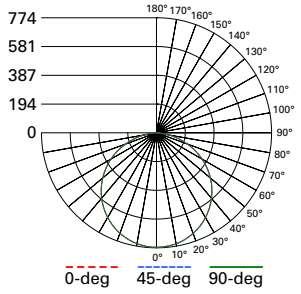
SMX14RLSFS010-2000LM-3000K

Spacing criterion:
(0-180) 1.27 | (90-270) 1.27 | (Diagonal) 1.39
Beam Angle: 115°
Field Angle: 162°
Lumens: 2310
Input Watts: 26.1 W
Efficacy: 88.5 LPW
UGR: 20
Test Report: P869647

Zonal Lumen	Lumens	% Lumens
0-30	616	26.7
0-40	1013	43.9
0-60	1811	78.4
0-90	2310	100

CCT: Range of 2700K - 5000K

TM-30-15	Rf = 92
	Rg = 99
CRI/CIE	Ra = 95.3
	R9 = 71.5



SMX14SLSFS010-2000LM-3000K

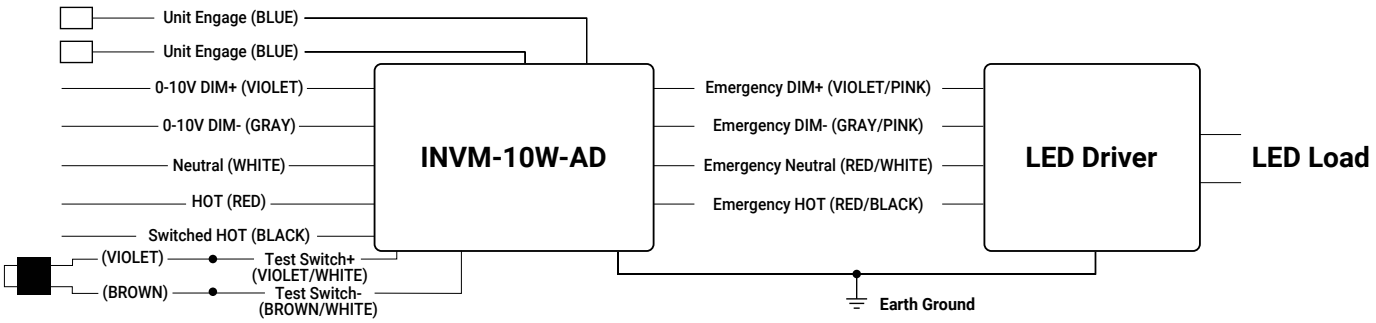
Spacing criterion:
(0-180) 1.27 | (90-270) 1.27 | (Diagonal) 1.39
Beam Angle: 115°
Field Angle: 162°
Lumens: 2260
Input Watts: 25.9 W
Efficacy: 87.3 LPW
UGR: 19
Test Report: P869677

Zonal Lumen	Lumens	% Lumens
0-30	604	26.7
0-40	993	43.9
0-60	1773	78.5
0-90	2260	100

CCT: Range of 2700K - 5000K

TM-30-15	Rf = 92
	Rg = 99
CRI/CIE	Ra = 95.5
	R9 = 72.9

Mini Inverter Schematic



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