Project		Catalog #		Type	
Prepared by		Notes		Date	

Matte White · Matte Black · Satin Nickel · Tuscan Bronze
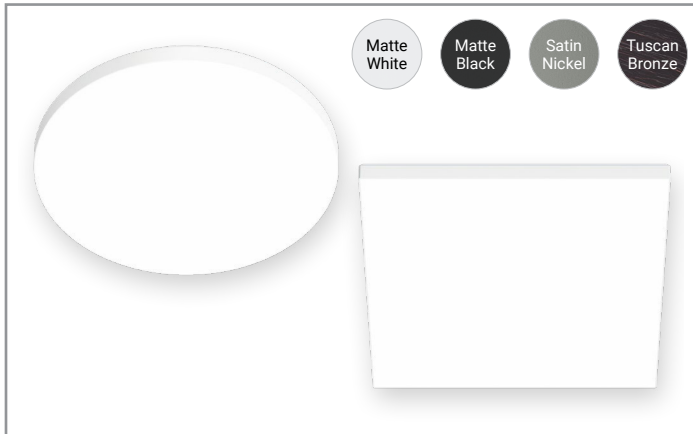
HALO

SMX8 Edgless Surface Mount LED Downlight

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[1] 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

1. 0-10V versions coming soon

ENERGY STAR · UL CERTIFIED · Efficiency Standards T24 Can be used to comply with Title 24 Part 6 LED Enclosed Light Source Requirements (JA8) · Efficiency Standards T20 California Title 20 Certified LED Tier 1 Lamp · IECC International Energy Conservation Code High Efficacy Compliance · RoHS COMPLIANT

Refer to ENERGY STAR® Certified Products List.
Can be used to comply with California Title 24 High Efficacy requirements.[2]
Certified to California Appliance Efficiency Database under JA8. [3]

5 seleCCTable colors 2700K · 3000K · 3500K 4000K · 5000K · dim-to-warm option included · selectable lumens · IC RATED · air-tite™ · Showerlight · DEAD FRONT

Interactive Menu

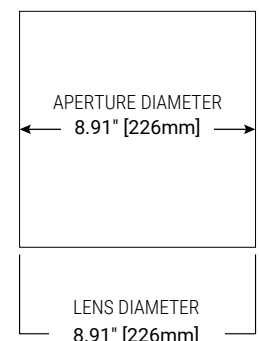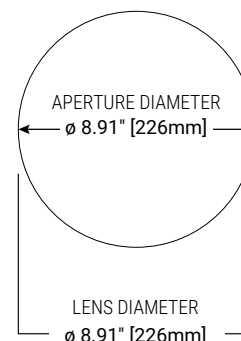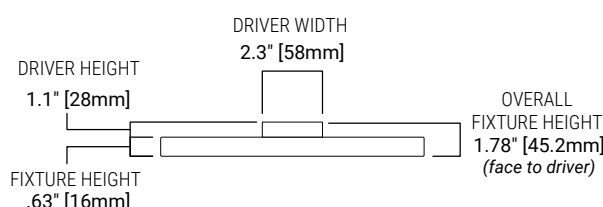**Phase Cut Square, 0-10V Round & Square Available July 2025**

Top Product Features

- 8" Surface Mount Edgeless Design
- Fully luminous edge-to-edge lens with no front face flange
- **6-Position Switch:** 5-color Field-SeleCCTable (2700K, 3000K, 3500K, 4000K, 5000K) + Dim-to-Warm (3000K dims to 1800K); 90+ CRI
- **Brightness:** Lumen Select 900/1200/1500 lm (nominal)
- **Dimming:** Dims to less than 5% (phase cut LE/TE) with compatible dimmers; 120V input
- Mounting hardware, orange LED Quick Connect and E26 adapter included
- Edgeless Decorative Overlays (sold separately)
- AIR-TITE, wet location-listed, IC-rated, and ENERGY STAR® certified
- 50,000 hrs of maintenance-free operation
- 5-year warranty

Dimensional and Mounting Details

DRIVER WIDTH 2.3" [58mm]

DRIVER HEIGHT 1.1" [28mm]

OVERALL FIXTURE HEIGHT 1.78" [45.2mm] *(face to driver)*

FIXTURE HEIGHT .63" [16mm]

APERTURE DIAMETER ø 8.91" [226mm]

LENS DIAMETER ø 8.91" [226mm]

APERTURE DIAMETER 8.91" [226mm]

LENS DIAMETER 8.91" [226mm]

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

Order Information *(Available Today)*

Catalog Number	Description	Lumens (nominal)	CCT	Finish	Driver Compatibilty	Packaging
SMX8RLSFSD2W	8" Round Surface Mount LED Downlight	Lumen Selectable: 900/1200/1500 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

Accessories		
Catalog Number	Description	Finish
SMX8RTRMMW	8" Round Decorative Overlay	Paintable Matte White
SMX8RTRMMB	8" Round Decorative Overlay	Matte Black
SMX8RTRMSN	8" Round Decorative Overlay	Satin Nickel
SMX8RTRMTBZ	8" Round Decorative Overlay	Tuscan Bronze

Decorative Overlays

SMX8RTRMMW
Paintable Matte White

SMX8RTRMMB
Matte Black

SMX8RTRMSN
Satin Nickel

SMX8RTRMTBZ
Tuscan Bronze

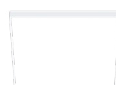## Available July 2025

Phase Cut - Square

Catalog Number	Description	Lumens (nominal)	CCT	Finish	Driver Compatibilty	Packaging
SMX8SLSFSD2W	8" Square Surface Mount LED Downlight	Lumen Selectable: 900/1200/1500 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

0-10V - Round & Square

Catalog Number	Description	Lumens (nominal)	CCT	Finish	Driver Compatibilty	Packaging
SMX8RLSFS010	8" Round Surface Mount LED Downlight	Lumen Selectable: 900/1200/1500 lm	90+ CRI, Field Selectable CCT: 2700/3000/3500/4000/5000K	Matte White	0-10V 5%; 120-277V	Plastic-free recyclable
SMX8SLSFS010	8" Square Surface Mount LED Downlight	Lumen Selectable: 900/1200/1500 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
SMX8STRMMW	8" Square Decorative Overlay	Paintable Matte White
SMX8STRMMB	8" Square Decorative Overlay	Matte Black
SMX8STRMSN	8" Square Decorative Overlay	Satin Nickel
SMX8STRMTBZ	8" Square Decorative Overlay	Tuscan Bronze

Decorative Overlays

SMX8STRMMW
Paintable Matte White

SMX8STRMMB
Matte Black

SMX8STRMSN
Satin Nickel

SMX8STRMTBZ
Tuscan Bronze

SMX8RLSFSD2W

SMX8RLSFS010
(Available July 2025)

SMX8SLSFSD2W
(Available July 2025)

SMX8SLSFS010
(Available July 2025)

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Compatible Junction Boxes [3]

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

Round
New Work Fixture Box (Plastic) w/Bar Hanger
4" x 2-3/18"

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

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

Round
New Work Fixture Box (Plastic)
4" Diameter x 2-3/18"

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

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

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

Round
Old Work Box (Plastic)
4-1/4" Diameter flange (3-1/2" I.D.) x 2-5/8"

3. 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.

Compatible Housings

HALO - 5" Housings [4]

HALO LED Housings	H550ICAT, H550RICAT, E550ICAT, E550RICAT
Standard Housings	H5ICAT, H5ICATNB, H5RICAT, H5T, H5TNB, H5RT, E5ICAT, E5ICATNB, E5RICAT, E5RTAT, E5TAT, E5TATNB
Shallow Housings	H25ICAT, H25RICAT, H25ICATNB, H2550ICAT
Fire Rated Housings	H550FR2ICAT

4. This fixture is UL Certified for use with any 5" diameter recessed housing constructed of steel or aluminum with an internal volume that exceeds 107.9" in^3 addition to those noted below and does not exceed the input rating of the housing.

HALO - 6" Housings [5]

HALO LED	H750ICAT, H750RICAT, H750T, H750TCP, H2750ICAT, H2750RICAT, E750ICAT, E750RICAT
Standard Housing	H7ICAT, H7ICT, H7ICATNB, H7ICTNB, H7TNB, H7UICAT, H7TCP, H7RICAT, H7RICT, E7ICAT, E7ICATNB, E7RICAT, E7RTAT, E7TAT, E7TATNB, H7ICATNB, H7ICTNB, H7TNB
Shallow Housing	H27ICAT, H27RICAT, H27ICT, H27RICT, H27T, H27RT, E27ICAT, E27RICAT, E27TAT, E27RTAT, H2750ICAT
Fire Rated Housing	H750FR2ICAT

5. The fixutre is UL Certified for use with any 6" diameter recessed luminaire constructed of steel or aluminum with an internal volume that exceeds 97.4 in^3 addition to those noted below and does not exceed the input rating of the luminaire.

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
- 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 3 SDCM at the endpoints and 4 SDCM in the middle provide color consistency and uniformity

Driver
- Integral 120V 60Hz constant current driver provides noise-free, high-efficiency operation
- **Dimmable:** 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.)
  - **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 and E26 medium socket adapter to provide mains connection

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 along with compact (pancake) junction boxes
- Mounting bracket covers selectable switches
- 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
- Compatible with JB4FR2 for up to 2 hour fire safe protection.
  - JB4FR2 Meets UL514A Metallic Outlet Box and is suitable for use in fire-rated ceiling construction that requires up to 2-hour protection per International Building Code Section 714

Recessed Housing Mounting
Non-California versions only
- Optional steel torsion springs or friction blades to hold the module securely in a recessed housing
  - Installs from below the ceiling to HALO 5" and 8" recessed housings with included torsion springs
- The included wire nuts, LED connector, and E26 medium socket adapter allow for easy mounting to recessed housings
- Reference installation instructions for complete mounting steps
- May be installed in IC-rated recessed housings that are in direct contact with insulation

NOTE: Not for use in recessed housings in direct contact with spray foam insulation. Refer to NEMA LSD 57-2013

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
  - Tuscan Bronze

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
- ENERGY STAR® certified, reference Certified Light Fixtures database
- Certified to State of California Title 20, State regulated LED Lamp; reference Modernized Appliance Efficiency Database System (MAEDBS) for State-regulate d LED Lamp
- 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

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Energy Data

	120V (Triac)		120V-277V (0-10V) *(Available July 2025)*			
	Round	Square *(Available July 2025)*	Round		Square	
	SMX8RLSFSD2W	SMX8SLSFSD2W	SMX8RLSFS010		SMX8SLSFS010	
Lumens	**900**	**900**	**900**	**900**	**900**	**900**
Input Voltage (V)	120V	120V	120V	277V	120V	277V
Input Current (A)	93mA	93mA	80mA	35mA	79mA	35mA
Input Power (W)	10.65W	10.65W	9.68W	9.52W	9.55W	9.42W
Efficiency	81.2%	81.2%	81.54%	80.15%	81.91%	80.29%
Inrush (A)	2.35A @ 52usec	2.35A @ 52usec	1.46A @ 52usec	3.31 @ 84usec	1.56A @ 46usec	3.46 @ 76usec
THDi (%)	16.6%	16.6%	5.7%	18.6%	5.9%	19.2%
PF	0.969	0.969	0.997	0.947	0.997	0.945
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	18.59dB @1feet	18.59dB @1feet	18.61dB @1feet	18.61dB @1feet	18.41dB @1feet	18.41dB @1feet
Efficacy(LPW)	85LPW	85LPW	93LPW	95LPW	94LPW	96LPW
Lumens	**1200**	**1200**	**1200**	**1200**	**1200**	**1200**
Input Voltage (V)	120V	120V	120V	277V	120V	277V
Input Current (A)	109mA	109mA	110mA	47mA	106mA	46mA
Input Power (W)	12.88W	12.88W	13.26W	12.75W	13.13W	12.64W
Efficiency	81.15%	81.15%	81.32%	81.22%	81.84%	81.33%
Inrush (A)	2.35A @ 52usec	2.35A @ 52usec	1.46A @ 52usec	3.31 @ 84usec	1.56A @ 46usec	3.46 @ 76usec
THDi (%)	15.8%	15.8%	5.6%	13.5%	6%	13.3%
PF	0.976	0.976	0.997	0.972	0.998	0.974
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	18.59dB @1feet	18.59dB @1feet	18.61dB @1feet	18.61dB @1feet	18.41dB @1feet	18.41dB @1feet
Efficacy(LPW)	93LPW	93LPW	91LPW	94LPW	92LPW	95LPW
Lumens	**1500**	**1500**	**1500**	**1500**	**1500**	**1500**
Input Voltage (V)	120V	120V	120V	277V	120V	277V
Input Current (A)	138mA	138mA	135mA	56mA	133mA	56mA
Input Power (W)	16.17W	16.17W	16.07W	15.5W	15.85W	15.41W
Efficiency	80.84%	80.84%	82.65%	82.66%	82.89%	82.45%
Inrush (A)	2.35A @ 52usec	2.35A @ 52usec	1.46A @ 52usec	3.31 @ 84usec	1.56A @ 46usec	3.46 @ 76usec
THDi (%)	16.8%	16.8%	10.1%	11%	10.6%	11.6%
PF	0.979	0.979	0.991	0.982	0.993	0.984
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	18.59dB @1feet	18.59dB @1feet	18.61dB @1feet	18.61dB @1feet	18.41dB @1feet	18.41dB @1feet
Efficacy(LPW)	93LPW	93LPW	93LPW	97LPW	95LPW	97LPW

SMX8RLSFSD2W *(Equivalent to 100W Incandescent)*

CCT	Watts	Lumens	LPW	CRI
2700K	15.5	1520	98	93
3000K	15.5	1560	100.6	93
3500K	15.5	1580	101.9	93
4000K	15.5	1600	103.2	93
5000K	15.5	1620	104.5	93

SMX8SLSFSD2W *(Equivalent to 100W Incandescent)*

CCT	Watts	Lumens	LPW	CRI
2700K	16.2	1525	94	93
3000K	16.3	1500	91.7	93
3500K	16.3	1500	92	93
4000K	16.3	1500	92	93
5000K	16.2	1500	92.6	93

SMX8RLSFS010 *(Equivalent to 100W Incandescent)*

CCT	Watts	Lumens	LPW	CRI
2700K	15.6	1490	95.5	93
3000K	15.7	1520	96.8	93
3500K	15.7	1520	96.8	93
4000K	15.7	1530	97.5	93
5000K	15.6	1550	99.4	93

SMX8SLSFS010 *(Equivalent to 100W Incandescent)*

CCT	Watts	Lumens	LPW	CRI
2700K	15.5	1510	97.4	93
3000K	15.5	1535	99	93
3500K	15.5	1540	99.4	93
4000K	15.5	1540	99.4	93
5000K	15.5	1570	101.3	93

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Photometric Data

0-deg — — — 45-deg · · · 90-deg ——

SMX8RLSFSD2W-1500LM-3000K

Spacing criterion:
(0-180) 1.27 | (90-270) 1.27 | (Diagonal) 1.39
Beam Angle: 115°
Field Angle: 163°
Lumens: 1560
Input Watts: 15.5 W
Efficacy: 100.6 LPW
UGR: 21
Test Report: P938647

Zonal Lumen	Lumens	% Lumens
0-30	416	26.7
0-40	684	43.8
0-60	1221	78.3
0-90	1560	100

CCT: Range of 2700K - 5000K

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

TM-30-15	Rf = 93
	Rg = 101
CRI/CIE	Ra = 97.1
	R9 = 80.9

115°

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