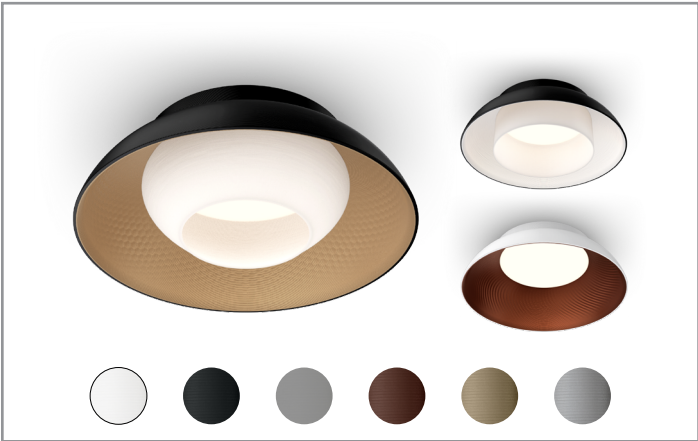


Project		Catalog #		Type	
Prepared by		Notes		Date	



Interactive Menu

- Order Information page 2
- Product Specifications page 3
- Colors & Textures page 4
- Energy & Performance Data page 5
- Photometric Data page 6
- J-box Compatibility page 7

Top Product Features

- Created using the Cooper Lighting additive manufacturing process, the PrentaLux Fluxyn series is a family of modular surface-mounted decorative fixtures over a central light engine
- Integral LED light engine with 750/900/1200 nominal source lumens
- Surface Ceiling Mounted or Surface Wall (Sconce)
- 6-Position Switch: 5-color Field-SeleCCTable (2700K, 3000K, 3500K, 4000K, 5000K) + Dim-to-Warm(3000K dims to 1800K); 90+ CRI
- Dims to less than 5% with compatible dimmers in either phase cut LE/TE (120V) or 0–10V (120–277V)
- Light engine is AIR-TITE, wet location-listed, IC-rated
- 6 standard opaque inner and outer shade color options with additional on-demand colors available

PrentaLux

Fluxyn Series - 14" Disc

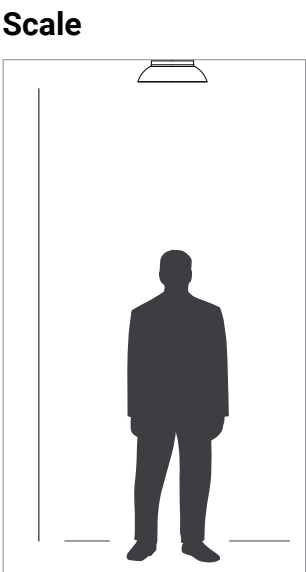
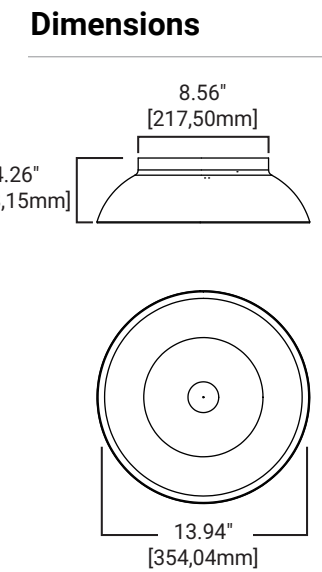
Surface Mount

6" Integral LED Light Engine

Performance Decorative

Typical Applications

- Office • Education • Healthcare • Hospitality • Retail • National Accounts

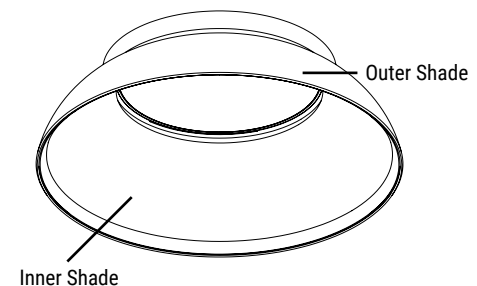
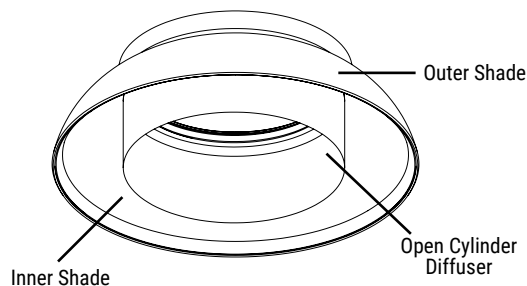
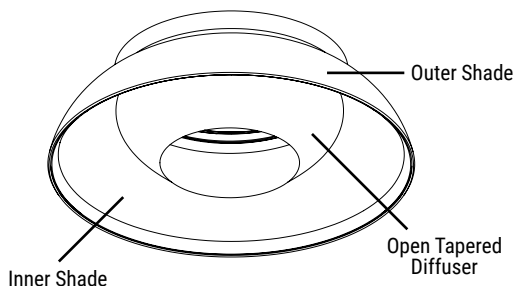


Order Information

SAMPLE CATALOG NUMBER: **BABA-PRLX-SM6-03-LS-FS-D2W-WHTE-BRSS-NL-OT**

Domestic Preferences ⁽¹⁾	Brand	Series	Style	Lumens ⁽²⁾ (nominal light engine output)	CRI/CCT
[Blank] = Standard BAA = Buy America Act BABA = Build America Buy America Act	PRLX	SM6 = Fluxyn Series - 6" Surface Mount Light Engine	03 = 14" Disc	LS = Lumen Selectable: 750/900/1200lm	FS = 90+ CRI, Field Selectable CCT ⁽³⁾ : Dim-to-Warm/2700/3000/3500/4000/5000K ⁽⁴⁾
Notes (1) Only product configurations with these prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or the Build America Buy America Act (BABA). BABA is the minimum Government compliance requirement for the Build America Buy America standards which is part of the Infrastructure and Investment Jobs Act (IIJA). Individual Government Agencies may have more stringent compliance standards. Please refer to DOMESTIC PREFERENCES website or consult the CLS Domestic Preferences team for more information. Components shipped separately may be separately analyzed under domestic preference requirements.	Notes	Notes	Notes	Notes (2) Nominal lumens shown are source lumens. Diffuser and shades will reduce the total delivered lumens. Use Performance Tables and IES files for precise delivered lumen outputs. See Lumen Table on page 5 for each CCT lumen value.	Notes (3) 6-Position Switch with 5 CCT (27/30/35/40/5000K) (4) Additional Dim-to-Warm (3000K dims to 1800K) only available with D2W Dimming/Driver selection and 120V input voltage.

Dimming/Driver/Voltage	Outer Shade Color ⁽⁶⁾	Inner Shade Color ⁽⁸⁾	Inner Shade Texture ⁽¹⁰⁾	Diffuser Shape ⁽¹¹⁾
D2W = Phase Cut LE/TE 5%, 120V 010 ⁽⁵⁾ = 0-10V 5%; 120-277V	WHTE = Satin White BLAK = Satin Black GRAY = Satin Gray BRNZ = Satin Bronze BRSS = Satin Brass SLVR = Silver XXXX ⁽⁷⁾ = On-Demand Color	WHTE = Satin White BLAK = Satin Black GRAY = Satin Gray BRNZ = Satin Bronze BRSS = Satin Brass SLVR = Silver XXXX ⁽⁹⁾ = On-Demand Color	HM = Hammered NL = Natural Lines WV = Wavy	OT = Open Tapered OC = Open Cylinder ND = No Diffuser
Notes (5) 010 does not include a dim-to-warm selection.	Notes (6) See page 4 for images of color options. (7) On-Demand colors available with possible extended lead times and additional costs. Consult factory. See page 3 for images of On-Demand color options.	Notes (8) See page 4 for images of color options. (9) On-Demand colors available with possible extended lead times and additional costs. Consult factory. See page 4 for images of On-Demand color options.	Notes (10) See page 4 for texture details and options. Consult factory to request other textures. Extended lead times, additional costs, and minimum order quantity may apply.	Notes (11) See page 4 for texture details and options. Consult factory to request other textures. Extended lead times, additional costs, and minimum order quantity may apply.



Product Specifications

Construction

- PrentaLux Fluxyn Series consist of an integral LED light engine and a proprietary additive manufacturing process for the polycarbonate shade and components.
- Shades utilize a proprietary, impact resistant polycarbonate for maximum durability.
- The polycarbonate used for PrentaLux fixtures is bio-circular and thermally, mechanically and optically optimized for professional/commercial installations. Designed, engineered, and printed in the United States.

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 & Light Engine

- 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 in between 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) phase cut dimmers. (See Dimming Guide for compatible dimmers.)
- 0-10V Dimming: Continuous, flicker-free dimming from 100% to 5% with compatible 0-10V 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.

Optics

- Diffuser available in multiple forms to cut high angle light and illuminate the inner shade.

Colors & Textures

- 6 standard inner and outer shade colors available.
- 3 inner shade textures offered.
- On-Demand colors and textures available with possible extended lead times and additional costs. Please consult factory.

Shade Mounting

- Shades are attached with a simple twist and lock feature that allows for access to the light engine and allows you to easily change shades in the future without changing the light engine. This reduces future costs in electrical work and installation.

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.

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 6" 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.

Compliance

- Light Engine cULus certified for US and Canada.
- Light Engine Wet Location listed for showers and covered outdoor ceilings.
- Light Engine 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.*
- BAA & BABA compliant options available.

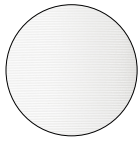
Warranty

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

Sustainability Specifications

- PrentaLux 3D printed parts are produced with at least 75% recycled or bio-circular materials (using an ISCC certified mass balance approach).
- ISCC certified. Certification applies only to 3D printed material.

Standard Opaque Outer Shade Colors



WHTE - White



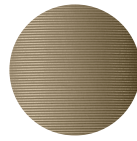
BLAK - Black



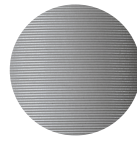
GRAY - Gray



BRNZ - Bronze



BRSS - Brass



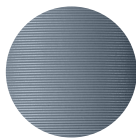
SLVR - Silver

On-Demand Colors

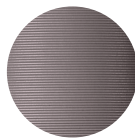
These additional color offerings for inner and outer shade may have extended lead times and/or additional costs. Please consult factory.



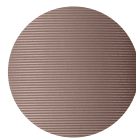
MEGR - Metallic Green



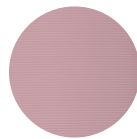
MEBL - Metallic Blue



MEPU - Metallic Purple



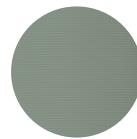
RGLD - Rose Gold



ROSE - Rose



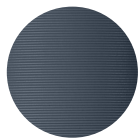
CAPP - Cappuccino



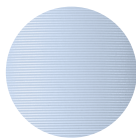
SAGE - Sage



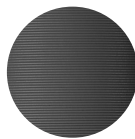
MCHA - Matcha



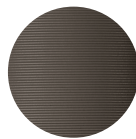
STBL - Steel Blue



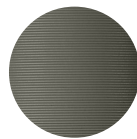
MYBL - Misty Blue



DKGY - Dark Gray



STBR - Stone Brown



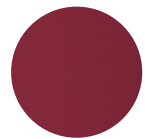
ENGR - Enamel Green



CITR - Citrona

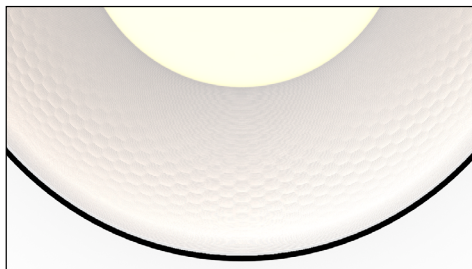


CRWH - Cream White

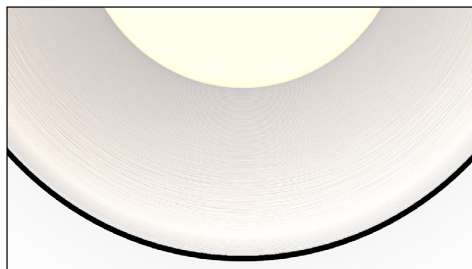


BURG - Burgundy

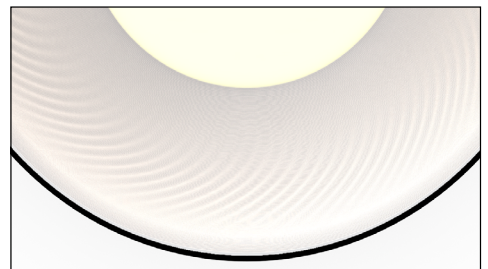
Inner Shade Textures



Hammered (HM)

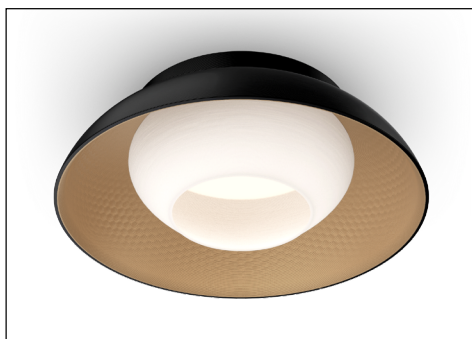


Natural Lines (NL)

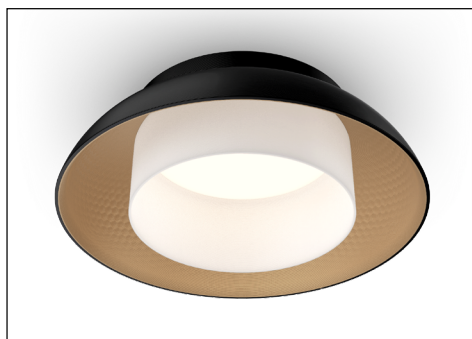


Wavy (WV)

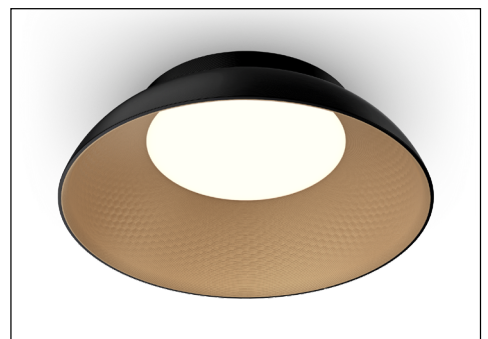
Diffuser Shapes



Open Tapered (OT)



Open Cylinder (OC)



No Diffuser (ND)

Energy and Performance Data

Catalog#	Voltage	Nominal CCT	Lumen Setting	Delivered Lumens			Wattage	Efficacy (lm/W)		
				No Diffuser (ND)	Open Cylinder (OC)	Open Tapered (OT)		No Diffuser (ND)	Open Cylinder (OC)	Open Tapered (OT)
PRLX-SM6-03-LS-FS-010	120-277V	2700	750	805	720	589	8.0	101.0	90.3	74.0
			900	963	861	705	8.6	112.0	100.2	82.0
			1200	1363	1219	998	12.5	109.0	97.6	79.8
		3000	750	805	720	589	7.0	115.0	102.9	84.2
			900	963	861	705	8.5	113.3	101.3	82.9
			1200	1363	1219	998	12.4	109.9	98.3	80.5
		3500	750	808	723	591	7.0	115.4	103.3	84.5
			900	967	865	708	8.5	113.7	101.7	83.2
			1200	1368	1224	1002	12.4	110.4	98.7	80.8
		4000	750	814	729	596	7.0	116.3	104.1	85.2
			900	974	872	713	8.5	114.6	102.5	83.9
			1200	1379	1234	1010	12.4	111.2	99.5	81.4
		5000	750	833	746	610	7.0	119.1	106.5	87.1
			900	997	892	730	8.4	118.7	106.2	86.9
			1200	1411	1263	1033	12.3	114.8	102.7	84.0
PRLX-SM6-03-LS-FS-D2W	120V	2700	750	883	790	646	7.9	111.8	100.0	81.8
			900	1057	945	773	9.5	111.2	99.5	81.4
			1200	1496	1338	1095	13.9	107.6	96.3	78.8
		3000	750	896	802	656	8.0	112.0	100.2	82.0
			900	1072	959	785	9.6	111.6	99.9	81.7
			1200	1517	1358	1111	14.0	108.4	97.0	79.3
		3500	750	905	810	663	8.0	113.2	101.3	82.8
			900	1083	969	793	9.6	112.8	101.0	82.6
			1200	1534	1372	1123	14.1	108.8	97.3	79.6
		4000	750	912	816	667	8.0	114.0	102.0	83.4
			900	1091	976	799	9.6	113.6	101.7	83.2
			1200	1544	1382	1131	14.0	110.3	98.7	80.8
		5000	750	925	827	677	7.9	117.0	104.7	85.7
			900	1106	990	810	9.5	116.4	104.2	85.2
			1200	1566	1401	1146	13.9	112.7	100.8	82.5

Lumen Adjustment Factors

Inner Shade Color	Lumen Multipliers		
	No Diffuser (ND)	Open Cylinder (OC)	Open Tapered (OT)
White (WHT)	1.00	0.89	0.73
Brass (BRSS)	0.87	0.84	0.65
Bronze (BRNZ)	0.83	0.83	0.64

Photometric Data

PRENTALUX - SM6 SURFACE MOUNT - DISC @ 3000K / 90 CRI WITH NO DIFFUSER		
Filename	PRLX-SM6-03-LS-FS-010-XXXX-WHTE-XX-ND-(3000K-1200LM).ies	
Test No.	P1504031	
Lumcat	PRLX-SM6-03-LS-FS-010-XXXX-WHTE-XX-ND (3000K-1200LM)	
Lumens	1363.0 Lm	
Input Watts	12.4 W	
Efficacy	109.9 Lm/W	
CCT	3000K	
Spacing Criteria (0/90/45)	1.26 / 1.26 / 1.38	

PRENTALUX - SM6 SURFACE MOUNT - DISC @ 3000K / 90 CRI WITH OPEN CYLINDER DIFFUSER		
Filename	PRLX-SM6-03-LS-FS-010-XXXX-WHTE-XX-OC-(3000K-1200LM).ies	
Test No.	P1504046	
Lumcat	PRLX-SM6-03-LS-FS-010-XXXX-WHTE-XX-OC (3000K-1200LM)	
Lumens	1219.3 Lm	
Input Watts	12.4 W	
Efficacy	98.3 Lm/W	
CCT	3000K	
Spacing Criteria (0/90/45)	1.1 / 1.1 / 1.19	

PRENTALUX - SM6 SURFACE MOUNT - DISC @ 3000K / 90 CRI WITH OPEN TAPERED DIFFUSER		
Filename	PRLX-SM6-03-LS-FS-010-XXXX-WHTE-XX-OT-(3000K-1200LM).ies	
Test No.	P1504061	
Lumcat	PRLX-SM6-03-LS-FS-010-XXXX-WHTE-XX-OT (3000K-1200LM)	
Lumens	997.7 Lm	
Input Watts	12.4 W	
Efficacy	80.5 Lm/W	
CCT	3000K	
Spacing Criteria (0/90/45)	1.17 / 1.17 / 1.24	

Compatible Junction Boxes⁽¹²⁾

	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 2-5/8"
	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)

(12) 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⁽¹³⁾

HALO LED Housings	H550ICAT, H550RICAT, H2550ICAT
Standard Housings	H5ICAT, H5ICATNB, H5RICAT
Shallow Housings	H25ICAT, H25RICAT, H25ICATNB, H2550ICAT
Fire Rated Housings	H550FR2ICAT

(13) 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 in³ addition to those noted below and does not exceed the input rating of the housing.

HALO - 6" Housings⁽¹⁴⁾

HALO LED	H750ICAT, H750RICAT, H750TCP, H2750ICAT, H2750RICAT
Standard Housing	H7ICAT, H7ICT, H7ICATNB, H7RICAT, H7ICATNB
Shallow Housing	H27ICAT, H27RICAT, H2750ICAT
Fire Rated Housing	H750FR2ICAT

(14) The fixture is UL Certified for use with any 6" diameter recessed luminaire constructed of steel or aluminum with an internal volume that exceeds 97.4 in³ addition to those noted below and does not exceed the input rating of the luminaire.