Project	Catalog #	Туре
Prepared by	Notes	Date



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Top Product Features

- The PrentaLux 200 series of performance decorative fixtures utilize Cooper Lighting's proprietary 3D printing technology.
- Integral LED light engine with 8 Light Levels ranging from nominal 1000 to 7000+ lumens.
- Designed to promote a sustainable future. See pages 6-7 for sustainable product features and benefits.
- 3 outer shade texture options, and 3 distinct inner shade texture options.
- 8 standard opaque outer shade color options and and 3 opaque inner shade color options with additional On-Demand colors available.
- 90+ CRI standard with 4 CCT options (2700K, 3000K, 3500K, 4000K)
- Universal Voltage (120-277V)
- + 0-10V integral driver with dimming from 100% to 1%
- Declare compliant
- LBC Red List Approved
- Finishes available on Material Bank
- 5 Year Warranty

PrentaLux

235

Integral LED Light Engine Decorative

Typical Applications

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



Features

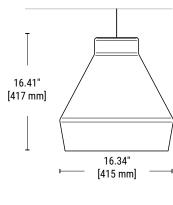


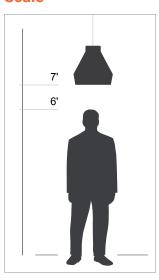
Awards



Dimensions

Scale







Order Information

SAMPLE CATALOG NUMBER: PRLX-235-935-LL5-C-U-S-GRAY-LF-WHHR-BR-DW

					-
Domestic Preferences	Brand	Series	CRI	Light Level ²	Optics, Lens
[Blank] = Standard BAA = Buy America Act	PRLX	235	927 = 90 CRI, 2700K 930 = 90 CRI, 3000K 935 = 90 CRI, 3500K 940 = 90 CRI, 4000K	LL1 = 1129 Ims (at 3500K, 90CRI), 10W LL2 = 1608 Ims (at 3500K, 90CRI), 13W LL3 = 2190 Ims (at 3500K, 90CRI), 18W LL4 = 2857 Ims (at 3500K, 90CRI), 24W LL5 = 3993 Ims (at 3500K, 90CRI), 24W LL5 = 4547 Ims (at 3500K, 90CRI), 40W LL7 ² = 5874 Ims (at 3500K, 90CRI), 56W LL8 ³ = 6807 Ims (at 3500K, 90CRI), 73W	C = Standard (84 deg), Clear Lens F ^{1,2} = Standard (84 deg), Frosted Lens
 Only product configurations with this designated prefix are built to be compliant with the Buy American Act of 1933 (BAA). Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements. 	Notes	Notes	Notes	Notes 1. Lumen targets above are based on 90 CRI and 3500K values. Use IES files for accurate calculations. 2. See Lumen Table on Page 5 for exact CCT to Lumen table values. 3. Standard Clear Lens only. Not available with Frosted Lens	Notes 1. Frosted lens will decrease delivered lumen output. Contact factory for details 2. Not available with LL7 and LL8

Continue here to make complete selections

Voltage	Dimming	Outer Shade Color ¹	Outer Shade Texture
U = Universal Voltage (120-277V)	S = 0-10V (dimming from 100% to 1%)	Standard Opaque Outer Shade Colors: WHTE = White BLAK = Black GRAY = Gray ROSE = Rose CAPP = Cappuccino SAGE = Sage BRNZ = Bronze BRSS = Brass XXXX ² = On-Demand Color	Outer Shade Textures: LF = Layered Fine NL = Natural Lines VF = Vertical Fine XX ² = Other Shade Texture
Notes	Notes	Notes 1. See page 3 for images of color options. 2. 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 1. See page 4 for texture details and options. 2. Consult factory to request other textures. Shop drawings may be required. Extended lead times, additional costs, and minimum order quantity may apply.

Continue here to make complete selections

Inner Shade Color	Inner Shade Texture	Canopy Shape and Color
Standard Inner Shade Colors: WHHR = High Reflective White ¹ BRSS = Brass BRNZ = Bronze XXXX ² = On-Demand Color	Standard Inner Shade Textures; SR = Layered fine texture BR = Baffle reflector, corrugated texture FL = Floral reflector, decorative texture XX ³ = Other Inner Shade Texture	DW = Disk - White DB = Disk - Black DC = Disk canopy matches outer shade color (opaque color only) CW = Conical - White CB = Conical - Black CC = Conical canopy matches outer shade color (opaque color only)
Notes 1. High Reflective White (WHHR) should be selected for maximum light output. 2. 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 1. See page 4 for texture details and options. 2. Consult factory to request other textures. Shop drawings may be required. Extended lead times, additional costs, and minimum order quantity may apply.	Notes 1. Standard length of cord - 10ft [3050 mm]. Max available length is 25ft [7.62 m]. Consult factory for lengths longer than 10ft. 2. Power cord is always silver.



PrentaLux

Construction

- PrentaLux 200s consist of an integral LED light engine and a proprietary additive manufacturing process for the polycarbonate shade and components
- · 200 series 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.

Electrical

 Standard 0-10V driver (with dimming from 100% to 1%) integrated into the pendant head (120/277V/50-60Hz).

LED & Light Engine

- Available in 2700K, 3000K, 3500K, and 4000K CCT
- 90 CRI standard
- 8 Lumen packages ranging from nominal 1000, 1500, 2000, 3000, 4500, 6000, 7000+ lumens. (subject to specific CCT and Light Level).

Drive

· Standard offering is 0-10V with 1% dimming.

Optics

- · Clear or frosted lens options available
- · Polar plot and UGR data on page 5.

Environment

Suited for 25° ambient. Dry location only.

Shielding

- · Shade optic depth and design provides excellent physical cut off.
- · 3D printing enabled personalization allows for easy adjustment of cut off angle (MOQ may apply)

Colors & Textures

- · 8 standard outer shade colors available. 3 standard inner shade colors available.
- · High Reflective White inner shade color should be selected for maximum light output.
- 3 inner shade textures offered.
- · On-Demand colors and textures available with possible extended lead times and additional costs. Please consult factory.
- · Finishes are available for review on Material Bank under Cooper Lighting Solutions PrentaLux brand.

Mounting

Mounting options include UL certified cord and option of 3D printed disk shape or conical shape, mounting hardware.

Lenaths

· Fixture comes with 10ft cord. Lengths up to 25 ft possible. (Consult factory as longer lead times apply).

Weight

- · All products are light weight and much easier to install than traditional pendants.
- · 235 fixture weighs approximately 9.1lbs

Warranty

Standard five-year limited warranty on all parts.

Compliance

- Components are UL recognized and luminaires are cULus listed for 25°C ambient environments. Dry Location Listed Filament material is UL certified.
- BAA compliant
- RoHS compliant
- · Declare Compliant, LBC Red List Approved, ISCC Certified
- · Not to be installed in food prep areas and hazardous environments which may expose the product to pollutants such as oil, grease, or VOCs.
- IK02 impact rated. Not for installations in locations such as gymnasiums, arenas, sports complexes, multi-purpose rooms, and any other locations where the fixture potentially will be subject to impacts from external sources.

Sustainability Specifications

- PrentaLux 3D printed parts are produced with at least 55% mass balanced bio-circular materials.
- 61% of the 235 lighting fixture, is made of 3D printed material. ISCC certified. Certification applies only to 3D printed material. See page 7
- Declare compliant LBC Red List Approved
- · See pages 6-7 for additional sustainability details.

BRNZ - Bronze

Standard Opaque Outer Shade Colors



Standard Inner Shade Colors





WHHR - White High Performance Reflective White









SAGE - Sage

BRSS - Brass

On-Demand Colors

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





Outer Shade Textures



LF - Layered Fine

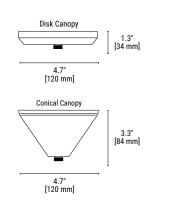
VF - Vertical Fine



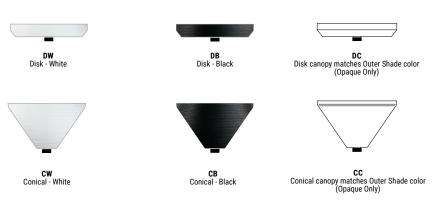
Inner Shade Textures



Mounting - Canopy Options



Canopy Colors





Photometric Data

	PRENT	ALUX - 235 - @ 3500K / 90 CRI WITH CLEA	R LENS	
	Light Level 1	Light Level 8		
Filename	235-90-35K-LL1-UNV-STD-X-X-WHHR-SR-X.ies	235-90-35K-LL8-UNV-STD-X-X-WHHR-SR-X.ies	180° 170° 160° 150°	
Test No.	P600606	P600627	3,486 cd 140"	(
Lumcat	235-90-35K-LL1-UNV-STD-X-X-WHHR-SR-X	235-90-35K-LL8-UNV-STD-X-X-WHHR-SR-X	2274 of 1207	
Lumens	1128.9 Lm	6807.4 Lm	1,162.ed 100°	
Input Watts	9.5 W	72.2 W	80"	Color Vector TM
Efficacy	118.8 Lm/W	94.3 Lm/W		R,
сст	3500К	3500K		R _g
SC (0/90/45)	1.01 / 1.01 / 1.07	1.01 / 1.01 / 1.07	0° 10° 20°	R9

Lumen/Wattage/LPW Table

LUMEN Table per CRI, CCT, and Light Level			<u>235</u> 1 diam nomin ner texture	WATTS	EFFICACY		
	_		Smooth	Floral	Baffle		(Lm/W)
CRI	CCT	LL	SR	FL	BR		
		LL1	1031	1027	1036	10	96
		LL2	1468	1463	1475	13	105
		LL3	2000	1992	2009	18	103
	2700	LL4	2609	2599	2621	24	101
		LL5	3646	3633	3663	34	99
		LL6	4152	4137	4172	40	96
		LL7	5364	5344	5389	56	89
		LL8	6215	6193	6245	73	79
		LL1	1093	1089	1098	10	101
		LL2	1556	1551	1564	13	111
		LL3	2120	2112	2130	18	109
	3000	LL4	2766	2756	2779	24	107
	3000	LL5	3865	3851	3883	34	105
		LL6	4402	4386	4422	40	102
		LL7	5686	5666	5713	56	94
90		LL8	6589	6565	6620	73	84
90	90	LL1	1129	1125	1134	10	105
		LL2	1608	1602	1616	13	115
		LL3	2190	2182	2201	18	113
	3500	LL4	2857	2847	2871	24	110
	3500	LL5	3993	3979	4012	34	109
		LL6	4547	4531	4569	40	105
		LL7	5874	5853	5902	56	97
		LL8	6807	6783	6840	73	86
		LL1	1171	1167	1176	10	109
		LL2	1668	1662	1676	13	119
		LL3	2271	2263	2282	18	117
	4000	LL4	2963	2953	2978	24	114
	4000	LL5	4141	4126	4161	34	113
		LL6	4716	4699	4739	40	109
		LL7	6093	6071	6122	56	101
		LL8	7060	7035	7094	73	90

UGR Data Table

Light Level @ 3500K [235] Smooth Reflector		сст	UGR [CIE 190:2010] (4H, 8H; Reflectance: 70%Ceiling, 50% Wall, 20% Ref. Plane	MAX LUMINANCE [45-90 DEG FROM NADIR] (2) (CD/M^2)
			90 CRI	90 CRI
			205	205
LL1	1129	3500K	15.7	1608
LL2	1608	3500K	16.9	2289
LL3	2190	3500K	18.0	3119
LL4	2857	3500K	18.9	4069
LL5	3993	3500K	20.1	5687
LL6	4547	3500K	20.5	6476
LL7	5874	3500K	21.4	8366
LL8	6807	3500K	21.9	9694

Lumen Maintenance

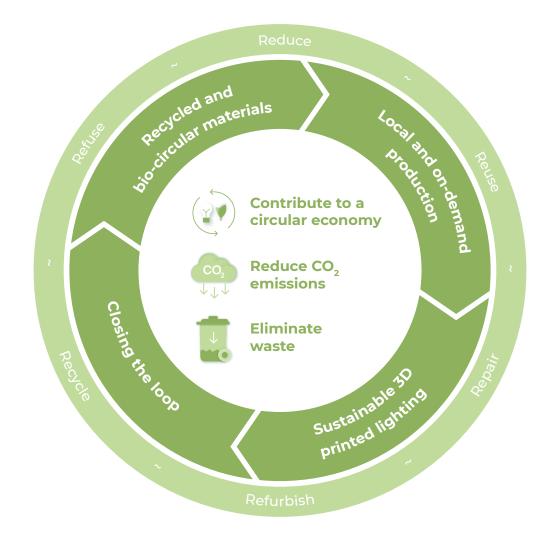
Ambient Temperature
25°C
Lumen Maintenance: TM-21-11 (60,000 Hours)
>80%
Theoretical L70 (Hrs)
>=66,000

NOTES

1. Frosted lens will decrease delivered lumen output. Contact factory for details



PrentaLux is committed to making sustainable lighting a reality



Sustainability

PrentaLux is setting a new benchmark for sustainability in performance lighting. We are deeply committed to reducing CO2 emissions as a vital part of our efforts to combat climate change. Our ambition is to become truly circular in our 3D printing activities. PrentaLux products maximize sustainability by reducing carbon emissions, reducing components and assembly time through the innovative design and technology of 3D printing, reusing our misprints that reduce our carbon footprint, and by utilizing recycled plastics and repurposed waste from food processing and wood pulp industries as the feedstock for PrentaLux 3D printing filaments.



3D printing can save up to 76% lower carbon emissions on material supply and manufacturing. This data is based on a lifecycle comparison of a traditionally manufactured downlight and a 3D printed downlight.



REDUCE

Up to 28% lower carbon emissions in transport. PrentaLux products are manufactured in the US to improve lead times and lessen transportation costs, reducing carbon emissions compared to traditionally manufactured products (based on a downlight comparison study)



The cardboard and paper packaging materials used to ship PrentaLux products, are themselves, 80% recycled paper at the very least.



RECYCLE

Our 3D printed parts are created with over 55% recycled or bio-circular materials.



Material Sustainability through Production and Supply Chain

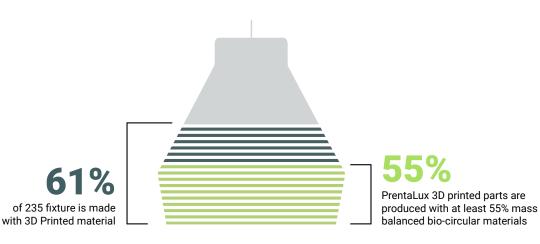


Each of our 3D printing manufacturing plants have been audited by the ISCC (International Sustainability and Carbon Certification) organization to verify the implementation and use of environmentally, socially and economically sustainable production and materials.

* PrentaLux products will convert to printing our 3D parts with over 55% recycled or biocircular materials (using an ISCC certified mass balance approach). Bio-circular materials are raw materials from ISCC Plus certified waste streams and residues including tall oils from the wood processing industry or used cooking oil from the food processing industry.



PrentaLux products are produced in a carbon neutral manufacturing facility where over 99% of generated waste is diverted from landfills



Material Transparency





The ILFI (International Living Future Institute) has created a program where manufacturers can disclose the components or "ingredients" of a product. This disclosure has a rating system that shows transparency in the materials chosen in developing products, and whether there are any chemicals of concern, to help meet the requirements of leading green building standards that support human and environmental health.

LBC Red List Approved

- Disclosed a minimum of 99% of ingredients present in • final product.
- Suitable as a compliance pathway for LEED v4.1 Material • Ingredients credit Option 1 Material Ingredient Reporting
- Suitable as a compliance pathway for WELL v2 Feature . X07 Materials Transparency Parts 1 and 2

To see the full listing of Cooper Lighting products that participate in Declare, click here.



PrentaLux - 200 Series 3D Printed **Decorative Pendants Cooper Lighting Solutions**

Final Assembly: Littlestown, Pennsylvania, USA Life Expectancy: 10 Year(s) End of Life Options: Recyclable (90%), Landfill (10%) Ingredients:

Carbonic acid, polymer with 4,4'-(1-methylethylidene)bis[phenol]; DIMETHYLALUMINUM I-PROPOXIDE; Steel; Small Electrical Component Except Steel manufacture, chemicals; 2-Propenoic acid, 2-meti optimere with elba d'arcregorate and methyl 2-methyl Domponent EALS, penoic acid, 2-methyl-

¹LBC Temp Exception RL-002 - Small Electrical Compo Living Building Challenge Criteria: Compliant

I-13 Red List: % Disclosed: 100% at 1 VOC Content: Not Ap

LBC Red List Free LBC Red List Appre I-10 Interior Perfe I-14 Responsible

200-0001 EXP. 01 APR 2024



Cooper Lighting Solutions 18001 East Colfax Avenue Aurora, CO 80011 P: 303-393-1522 www.cooperlighting.com

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Specifications and dimensions subject to change without notice.