Project		Catalog #		Type	
Prepared by		Notes		Date	

PrentaLux

215

Integral LED Light Engine
Decorative

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

Certifications

UL CERTIFIED | RoHS COMPLIANT | ISCC — *Filament only. See page 6* | Declare. | LBC Red List Approved | LIVING BUILDING CHALLENGE™

Features

BAA — BUY AMERICAN ACT — COMPLIANT OPTION AVAILABLE | Material Bank®

Awards

Best of NeoCon 2022 Innovation | HiP | Best of NeoCon 2022 Gold | PIA'22 Architectural SSL Magazine product innovation award | GOOD DESIGN 2022

Interactive Menu

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

Dimensions

18"
[457 mm]

12.4"
[315 mm]

Scale

7'

6'
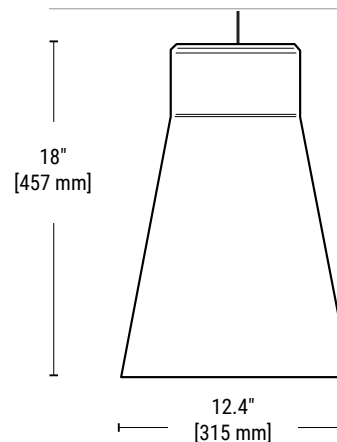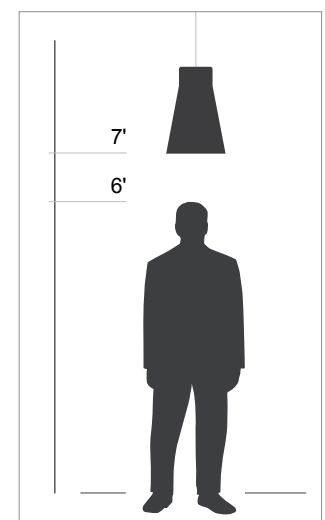
Order Information

SAMPLE CATALOG NUMBER: **PRLX-215-935-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**	**215**	**927** = 90 CRI, 2700K **930** = 90 CRI, 3000K **935** = 90 CRI, 3500K **940** = 90 CRI, 4000K	**LL1** = 1129 lms (at 3500K, 90CRI), 10W **LL2** = 1608 lms (at 3500K, 90CRI), 13W **LL3** = 2190 lms (at 3500K, 90CRI), 18W **LL4** = 2857 lms (at 3500K, 90CRI), 24W **LL5** = 3993 lms (at 3500K, 90CRI), 34W **LL6** = 4547 lms (at 3500K, 90CRI), 40W **LL7**[3] = 5874 lms (at 3500K, 90CRI), 56W **LL8**[3] = 6807 lms (at 3500K, 90CRI), 73W	**C** = Standard (84 deg), Clear Lens **F**[1,2] = Standard (84 deg), Frosted Lens
1. 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.

COOPER
Lighting Solutions

Product Specifications

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).

Driver
- 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.

Lengths
- 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.
- 215 fixture weighs approximately 7.8lbs

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.
- 54% of the 215 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.

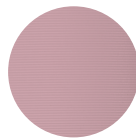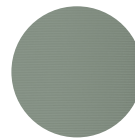## Standard Opaque Outer Shade Colors
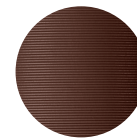
WHTE - White	BLAK - Black	GRAY - Gray	ROSE - Rose	CAPP - Cappuccino	SAGE - Sage	BRNZ - Bronze	BRSS - Brass

Standard Inner Shade Colors

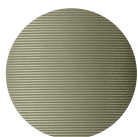| WHHR - White High Performance Reflective White	BRSS - Brass	BRNZ - Bronze

On-Demand Colors

These additional color offerings for inner and outer shade may have extended lead times and/or additional costs. Please consult factory.
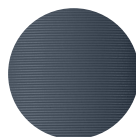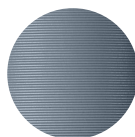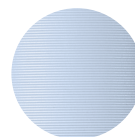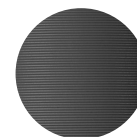
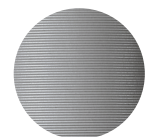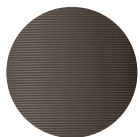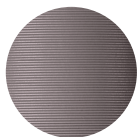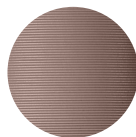| ENGR - Enamel Green	MEGR - Metallic Green	MCHA - Matcha	STBL - Steel Blue	MEBL - Metallic Blue	MYBL - Misty Blue	DKGY - Dark Gray	SLVR - Silver
STBR - Stone Brown	MEPU - Metallic Purple	RGLD - Rose Gold	CITR - Citrona	CRWH - Cream White	BURG - Burgundy		

COOPER Lighting Solutions
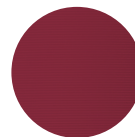
Outer Shade Textures
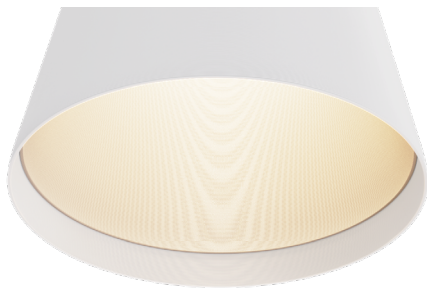
LF - Layered Fine

VF - Vertical Fine

NL - Natural Lines

Inner Shade Textures

SR - Smooth
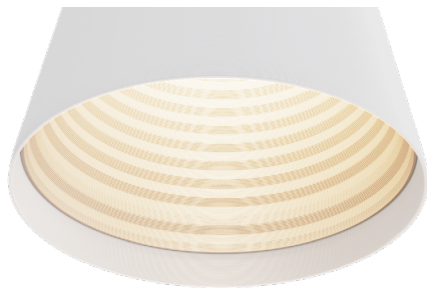
BR - Baffle

FL - Floral
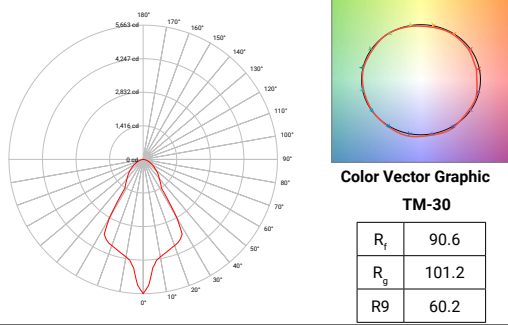
Mounting - Canopy Options

Disk Canopy

1.3"
[34 mm]

4.7"
[120 mm]

Conical Canopy

3.3"
[84 mm]

4.7"
[120 mm]

Canopy Colors

DW
Disk - White

DB
Disk - Black

DC
Disk canopy matches Outer Shade color
(Opaque Only)

CW
Conical - White

CB
Conical - Black

CC
Conical canopy matches Outer Shade color
(Opaque Only)
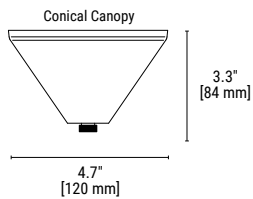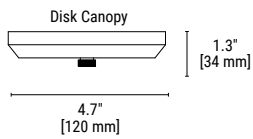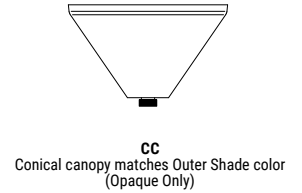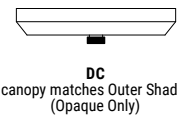
Photometric Data

PRENTALUX - 215 - @ 3500K / 90 CRI WITH CLEAR LENS			
	Light Level 1	**Light Level 8**	
Filename	215-90-40K-LL1-UNV-STD-X-X-WHHR-SR-X.ies	215-90-40K-LL8-UNV-STD-X-X-WHHR-SR-X.ies	
Test No.	P600700	P600721	
Lumcat	215-90-35K-LL1-UNV-STD-X-X-WHHR-SR-X	215-90-35K-LL8-UNV-STD-X-X-WHHR-SR-X	
Lumens	963.0 Lm	5807.6 Lm	
Input Watts	9.5 W	72.2 W	
Efficacy	101.4 Lm/W	80.4 Lm/W	
CCT	3500K	3500K	
SC (0/90/45)	0.9 / 0.9 / 0.85	0.9 / 0.9 / 0.85	

Color Vector Graphic
TM-30

R_f	90.6
R_g	101.2
R9	60.2

Lumen/Wattage/LPW Table

LUMEN Table per CRI, CCT, and Light Level			215[1] (inner diam nominal 12", inner textures)			WATTS	EFFICACY (Lm/W)
			Smooth	Floral	Baffle		
CRI	**CCT**	**LL**	**SR**	**FL**	**BR**		
90	2700	LL1	879	879	879	10	96
		LL2	1252	1252	1252	13	105
		LL3	1706	1706	1706	18	103
		LL4	2226	2226	2226	24	101
		LL5	3110	3110	3110	34	99
		LL6	3542	3542	3542	40	96
		LL7	4576	4576	4576	56	89
		LL8	5303	5303	5303	73	79
	3000	LL1	932	932	932	10	101
		LL2	1328	1328	1328	13	111
		LL3	1809	1809	1809	18	109
		LL4	2359	2359	2359	24	107
		LL5	3297	3297	3297	34	105
		LL6	3755	3755	3755	40	102
		LL7	4851	4851	4851	56	94
		LL8	5621	5621	5621	73	84
	3500	LL1	963	963	963	10	105
		LL2	1372	1372	1372	13	115
		LL3	1868	1868	1868	18	113
		LL4	2438	2438	2438	24	110
		LL5	3406	3406	3406	34	109
		LL6	3879	3879	3879	40	105
		LL7	5012	5012	5012	56	97
		LL8	5808	5808	5808	73	86
	4000	LL1	999	999	999	10	109
		LL2	1423	1423	1423	13	119
		LL3	1938	1938	1938	18	117
		LL4	2528	2528	2528	24	114
		LL5	3533	3533	3533	34	113
		LL6	4024	4024	4024	40	109
		LL7	5198	5198	5198	56	101
		LL8	6023	6023	6023	73	90

UGR Data Table

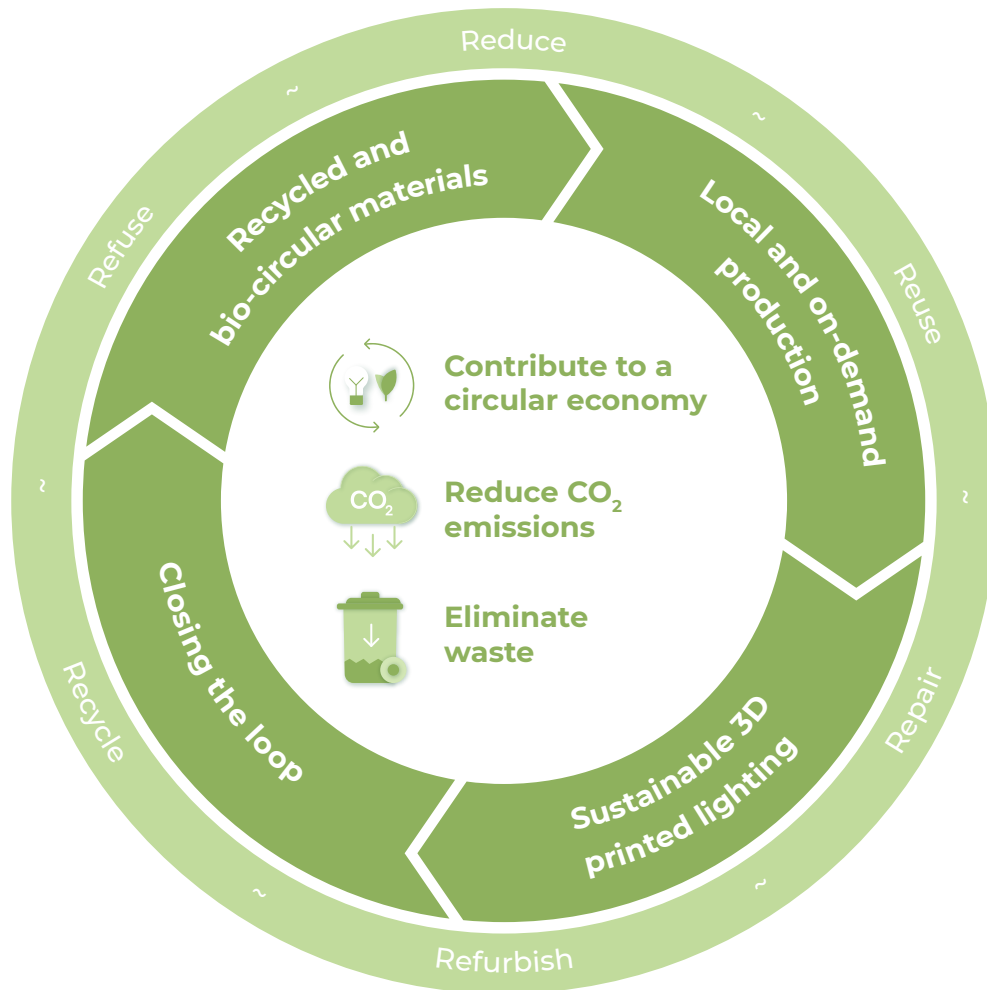| Light Level @ 3500K [215] Smooth Reflector		CCT	UGR [CIE 190:2010] [1] (4H, 8H; Reflectance: 70%Ceiling, 50% Wall, 20% Ref. Plane)	MAX LUMINANCE [45-90 DEG FROM NADIR] (2) (CD/M^2)
			90 CRI	**90 CRI**
			215	215
LL1	963	3500K	17.2	2438
LL2	1372	3500K	18.5	3473
LL3	1868	3500K	19.6	4731
LL4	2438	3500K	20.5	6171
LL5	3406	3500K	21.6	8625
LL6	3879	3500K	22.1	9823
LL7	5012	3500K	23.0	12689
LL8	5808	3500K	23.5	14703

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

COOPER
Lighting Solutions

PrentaLux is committed to making sustainable lighting a reality

Reduce
Refuse
Reuse
Recycled and bio-circular materials
Local and on-demand production

Contribute to a circular economy

Reduce CO$_2$ emissions

Eliminate waste

Recycle
Closing the loop
Repair
Sustainable 3D printed lighting
Refurbish

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.

76% REDUCE

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.

28% 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)*

80% REUSE

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

55% RECYCLE

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

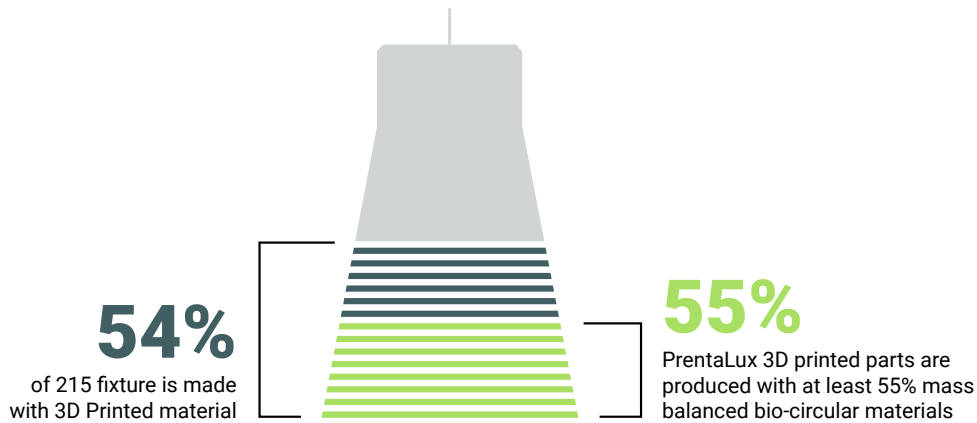# Material Sustainability through Production and Supply Chain

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 bio-circular 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.

ZERO WASTE TO LANDFILL
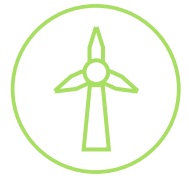
CARBON NEUTRAL

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

54%
of 215 fixture is made with 3D Printed material

55%
PrentaLux 3D printed parts are produced with at least 55% mass balanced bio-circular materials

Material Transparency

LIVING BUILDING CHALLENGE™

LBC Red List Approved

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.

Declare.

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 Exception[1]; Steel manufacture, chemicals; 2-Propenoic acid, 2-methyl-, polymer with ethyl 2-propenoate and methyl 2-methyl-2-propenoate; ACRYLIC PLASTIC, MODIFIED; Acrylonitrile-Butadiene-Styrene Copolymer; Cobalt [II] oxide; Poly[imino(1,6-dioxo-1,6- hexanediyl)imino-1,6-hexanediyl]; Polyacrylic acid; Zinc

[1] LBC Temp Exception RL-002 - Small Electrical Components

Living Building Challenge Criteria: Compliant

I-13 Red List:
☐ LBC Red List Free — % Disclosed: 100% at 100ppm
☑ LBC Red List Approved — VOC Content: Not Applicable
☐ Declared

I-10 Interior Performance: Not Applicable
I-14 Responsible Sourcing: Not Applicable

COO-0001
EXP. 01 APR 2024
Original Issue Date: 2023

INTERNATIONAL LIVING FUTURE INSTITUTE™ living-future.org/declare

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Specifications and dimensions subject to change without notice.

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August 28, 2024 9:55 AM