Project		**Catalog #**		**Type**	
Prepared by		**Notes**		**Date**	

PrentaLux

225

Integral LED Light Engine
Decorative

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

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

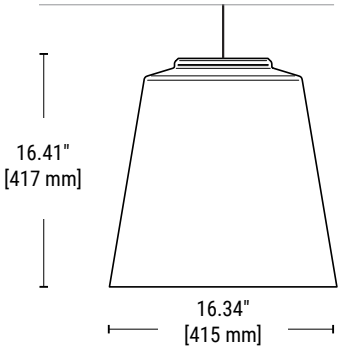
Certifications

Filament only. See page 6

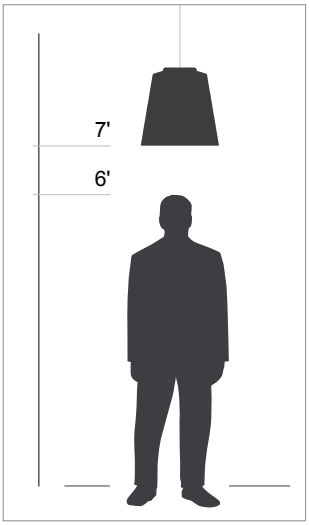
Features

Awards

Dimensions



Scale



Order Information

SAMPLE CATALOG NUMBER: **PRLX-225-935-LL5-C-U-S-GRAY-LF-WHHR-BR-DW**

Domestic Preferences	Brand	Series	CRI	Light Level[3]	Optics, Lens
[Blank] = Standard **BAA** = Buy America Act	**PRLX**	**225**	**927** = 90 CRI, 2700K **930** = 90 CRI, 2700K **935** = 90 CRI, 2700K **940** = 90 CRI, 2700K	**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** = 5874 lms (at 3500K, 90CRI), 56W **LL8** = 6807 lms (at 3500K, 90CRI), 73W	**C** = Standard (84 deg), Clear Lens **F**[1] = 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.	Notes 1. Frosted lens will decrease delivered lumen output. Contact factory for details

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.

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).

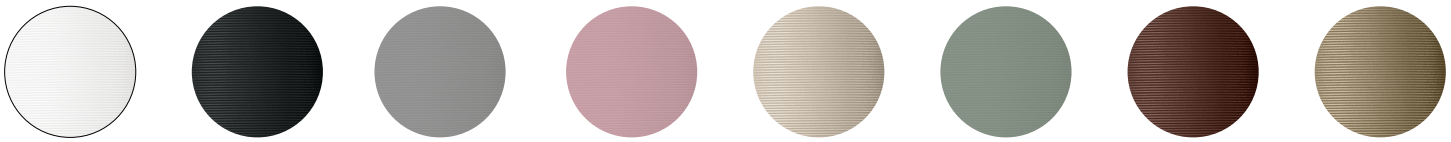
Weight
- All products are light weight and much easier to install than traditional pendants.
- 225 fixture weighs approximately 9lbs

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.
- 60% of the 225 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

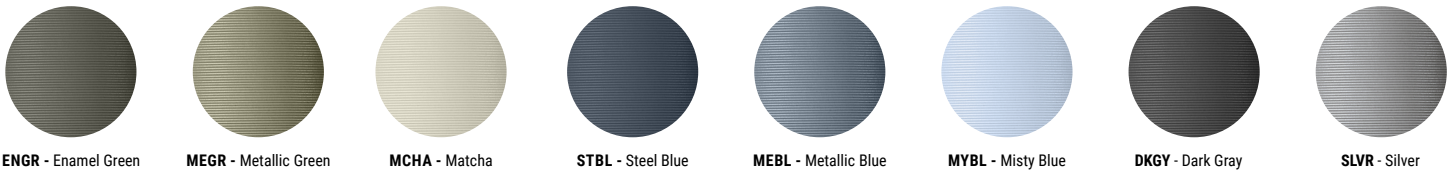
WHHR - White
High Performance Reflective White

BRSS - Brass

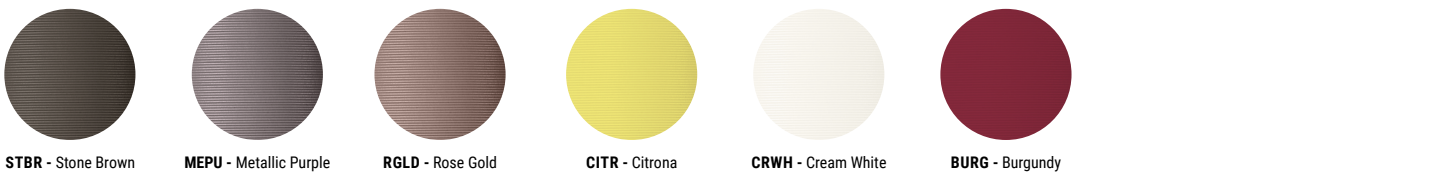
BRNZ - Bronze

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

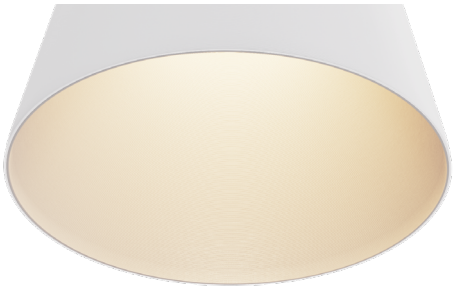
Outer Shade Textures

LF - Layered Fine

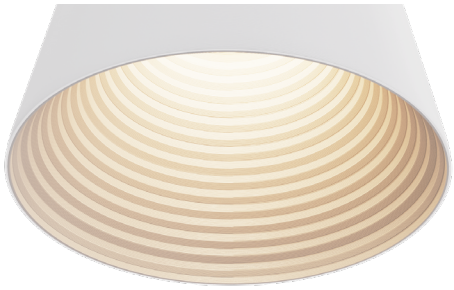
VF - Vertical Fine

NL - Natural Lines

Inner Shade Textures



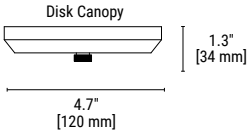
SR - Smooth

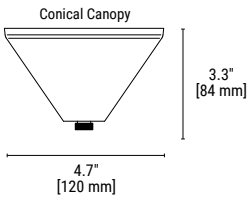


Baffle **(BR)**

FL - Floral

Mounting - Canopy Options

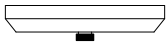




Canopy Colors

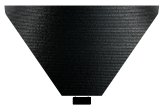
DW
Disk - White

DB
Disk - Black

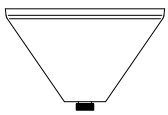


DC
Disk canopy matches Outer Shade color
(Opaque Only)

CW
Conical - White



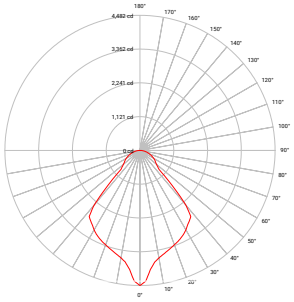
CB
Conical - Black

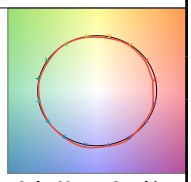


CC
Conical canopy matches Outer Shade color
(Opaque Only)

Photometric Data

PRENTALUX - 225 - @ 3500K / 90 CRI WITH CLEAR LENS		
	Light Level 1	**Light Level 8**
Filename	225-90-35K-LL1-UNV-STD-X-X-WHHR-SR-X-X.ies	225-90-35K-LL8-UNV-STD-X-X-WHHR-SR-X.ies
Test No.	P600606	P600627
Lumcat	225-90-35K-LL1-UNV-STD-X-X-WHHR-SR-X	225-90-35K-LL8-UNV-STD-X-X-WHHR-SR-X
Lumens	1128.9 Lm	6807.4 Lm
Input Watts	9.5 W	72.2 W
Efficacy	118.8 Lm/W	94.3 Lm/W
CCT	3500K	3500K
SC (0/90/45)	1.01 / 1.01 / 1.07	1.01 / 1.01 / 1.07





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			225[1] (inner diam nominal 16", inner textures)			WATTS	EFFICACY (Lm/W)
			Smooth	Floral	Baffle		
CRI	CCT	LL	SR	FL	BR		
90	2700	LL1	1031	1027	1036	10	96
		LL2	1468	1463	1475	13	105
		LL3	2000	1992	2009	18	103
		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
	3000	LL1	1093	1089	1098	10	101
		LL2	1556	1551	1564	13	111
		LL3	2120	2112	2130	18	109
		LL4	2766	2756	2779	24	107
		LL5	3865	3851	3883	34	105
		LL6	4402	4386	4422	40	102
		LL7	5686	5666	5713	56	94
		LL8	6589	6565	6620	73	84
	3500	LL1	1129	1125	1134	10	105
		LL2	1608	1602	1616	13	115
		LL3	2190	2182	2201	18	113
		LL4	2857	2847	2871	24	110
		LL5	3993	3979	4012	34	109
		LL6	4547	4531	4569	40	105
		LL7	5874	5853	5902	56	97
		LL8	6807	6783	6840	73	86
	4000	LL1	1171	1167	1176	10	109
		LL2	1668	1662	1676	13	119
		LL3	2271	2263	2282	18	117
		LL4	2963	2953	2978	24	114
		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 [225] Smooth Reflector		CCT	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

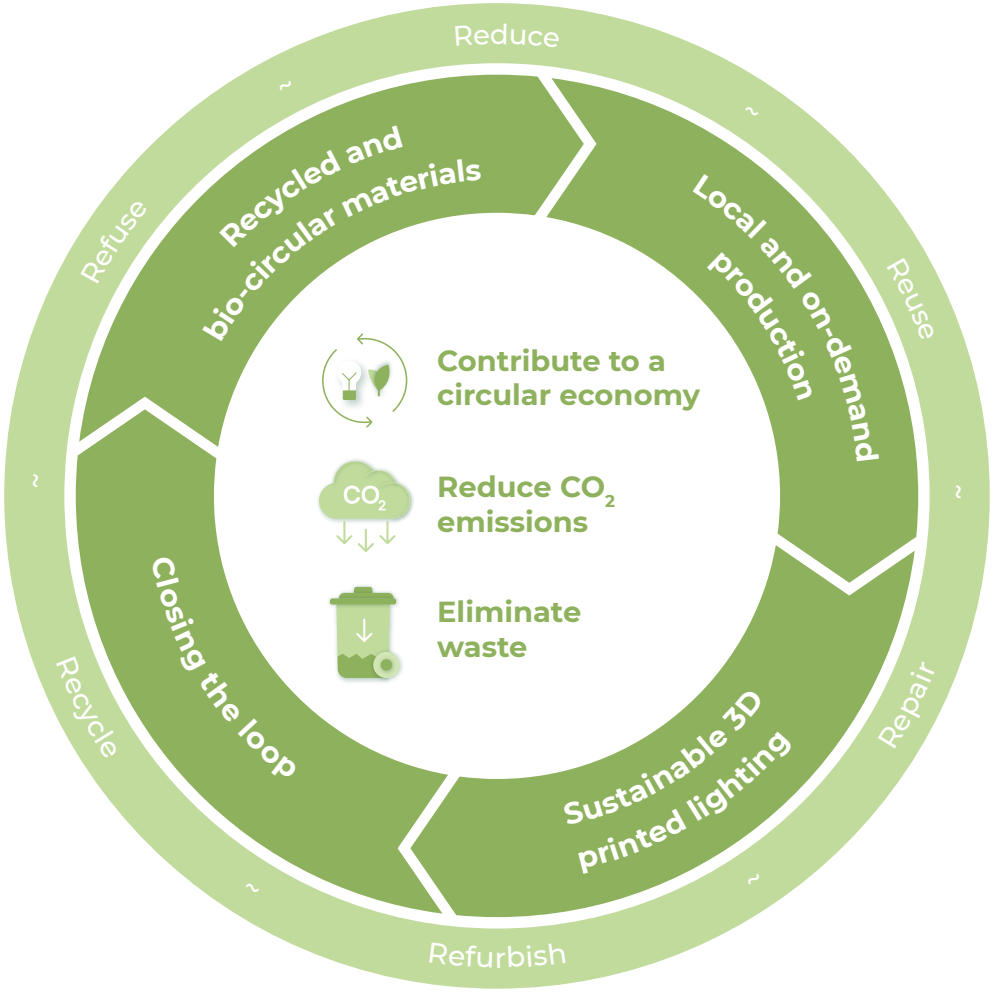
Lumen Maintenance

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.

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

50% BIO-BASED PLASTIC
ISCC CERTIFIED
MASS BALANCE APPROACH

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.

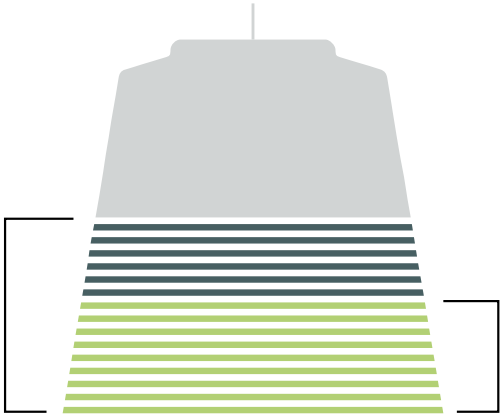
** PrentaLux products will convert to printing our 3D parts with over 55% recycled or bio-circular materials (using an ISCC certified mass balance approach). Bio-circular materials are raw materials from ISCC Plus certified waste streams and residues including tall oils from the wood processing industry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

60%
of 225 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

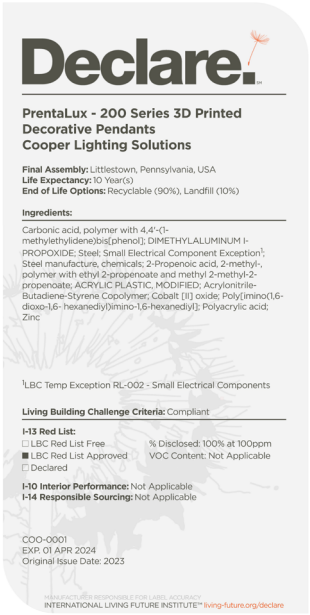
LIVING BUILDING CHALLENGE™

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
■ LBC Red List Approved
☐ Declared
% Disclosed: 100% at 100ppm
VOC Content: Not Applicable

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

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