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

PrentaLux
210

Integral LED Light Engine
Performance Decorative

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

UL CERTIFIED • RoHS COMPLIANT • ISCC *Filament only. See page 6*

Declare. • LBC Red List Approved • LIVING BUILDING CHALLENGE™

BAA BUY AMERICAN ACT COMPLIANT OPTIONS AVAILABLE • damp location

Interactive Menu

Top Product Features

- The PrentaLux 200 series of performance decorative fixtures utilize Cooper Lighting Solutions proprietary 3D printing technology.
- Integral LED light engine with 8 Light Levels ranging from nominal 1000 to 8000+ lumens.
- 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.
- 5-year warranty.

Dimensions

13.0" [330 mm]

19.0" [483 mm]

Scale

8'

6'
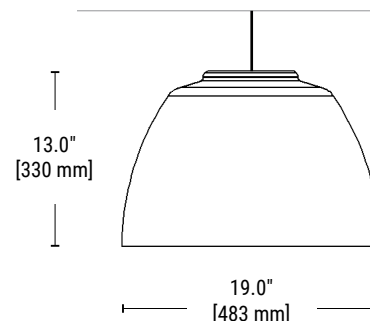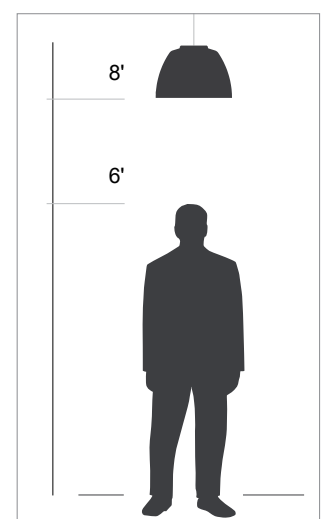
Order Information

SAMPLE CATALOG NUMBER: **PRLX-210-935-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**	**210**	**927** = 90 CRI, 2700K **930** = 90 CRI, 3000K **935** = 90 CRI, 3500K **940** = 90 CRI, 4000K	**LL1** = 1586 lms (at 3500K, 90CRI), 10W **LL2** = 2259 lms (at 3500K, 90CRI), 13W **LL3** = 3077 lms (at 3500K, 90CRI), 18W **LL4** = 4014 lms (at 3500K, 90CRI), 24W **LL5** = 5610 lms (at 3500K, 90CRI), 34W **LL6** = 6389 lms (at 3500K, 90CRI), 40W **LL7**[3] = 8254 lms (at 3500K, 90CRI), 56W **LL8**[3] = 9564 lms (at 3500K, 90CRI), 73W	**C** = Standard (84 deg), Clear Lens **F**[1,2] = Standard (84 deg), Frosted Lens
Notes 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. See Photometry info for details. 2. Not available with LL7 and LL8.

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.

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, 8000+ 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. Suitable for damp locations.

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.

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 lightweight and much easier to install than traditional pendants.
- 210 fixture weighs approximately 8.4lbs.

Warranty
- Standard five-year limited warranty on all parts.

Compliance
- Components are UL recognized and luminaires are cULus listed for 25°C ambient environments. Damp location Listed.
- Filament material is UL certified.
- BAA compliant.
- RoHS compliant.
- ISCC certified (for 3D printed materials). PrentaLux products will convert to printing our 3D parts with over 65% 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.
- Declare compliant, LBC Red List approved.
- 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 65% recycled or bio-circular materials (using an ISCC certified mass balance approach).
- ISCC certified. Certification applies only to 3D printed material.
- Declare compliant.
- LBC Red List approved.
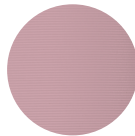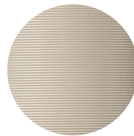
Standard Opaque Outer Shade Colors
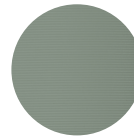
| WHTE - White | BLAK - Black | GRAY - Gray | ROSE - Rose | CAPP - Cappuccino | SAGE - Sage | BRNZ - Bronze | BRSS - Brass |

Standard Inner Shade Colors

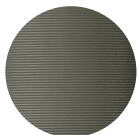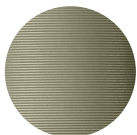| WHHR - White High Performance Reflective White | BRSS - Brass | BRNZ - Bronze |

On-Demand Colors

These additional color offerings for inner and outer shade may have extended lead times and/or additional costs. Please consult factory.
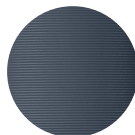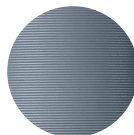
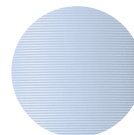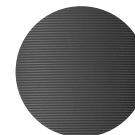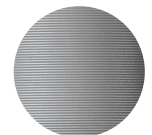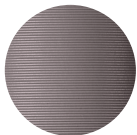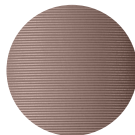| ENGR - Enamel Green | MEGR - Metallic Green | MCHA - Matcha | STBL - Steel Blue | MEBL - Metallic Blue | MYBL - Misty Blue | DKGY - Dark Gray | SLVR - Silver |

| STBR - Stone Brown | MEPU - Metallic Purple | RGLD - Rose Gold | CITR - Citrona | CRWH - Cream White | BURG - Burgundy |

COOPER
Lighting Solutions
a Signify business
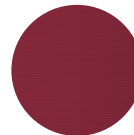
Outer Shade Textures

LF - Layered Fine

VF - Vertical Fine

NL - Natural Lines

SR - Smooth

Baffle **(BR)**

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]
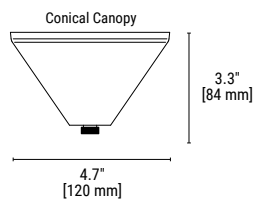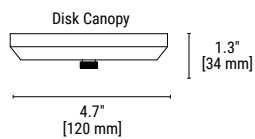
Canopy Colors

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

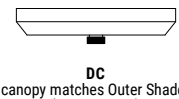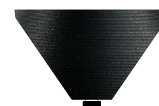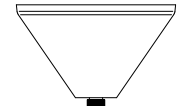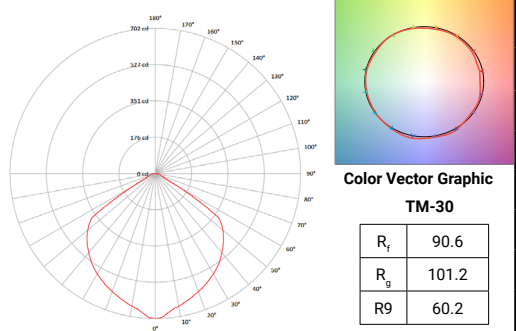| PRENTALUX - 210 - @ 3500K / 90 CRI WITH CLEAR LENS			
	Light Level 1	**Light Level 8**	
Filename	PRLX-210-935-LL1-C-U-S-X-X-WHHR-SR-X.ies	PRLX-210-935-LL8-C-U-S-X-X-WHHR-SR-X.ies	
Test No.	P879209	P600627	
Lumcat	PRLX-210-935-LL1-C-U-S-X-X-WHHR-SR-X	PRLX-210-935-LL8-C-U-S-X-X-WHHR-SR-X	
Lumens	1586.1 Lm	9564.5 Lm	
Input Watts	9.5 W	72.2 W	
Efficacy	167.0 Lm/W	132.5 Lm/W	
CCT	3500K	3500K	
Spacing Criteria (0/90/45)	1.2 / 1.2 / 1.37	1.2 / 1.2 / 1.37	

Color Vector Graphic TM-30

R$_f$	90.6
R$_g$	101.2
R9	60.2

Lumen/Wattage/LPW Table

CRI	CCT	LL	Clear	Frosted
			210[1] (inner diam nominal 16" CLEAR lens)	
90	2700	LL1	1448	1248
		LL2	2063	1778
		LL3	2809	2422
		LL4	3665	3160
		LL5	5122	4416
		LL6	5833	5029
		LL7	7536	NA
		LL8	8733	NA
	3000	LL1	1535	1323
		LL2	2187	1885
		LL3	2979	2568
		LL4	3886	3350
		LL5	5430	4681
		LL6	6184	5331
		LL7	7989	NA
		LL8	9257	NA
	3500	LL1	1586	1367
		LL2	2259	1948
		LL3	3077	2653
		LL4	4014	3460
		LL5	5610	4836
		LL6	6389	5507
		LL7	8254	NA
		LL8	9564	NA
	4000	LL1	1645	1418
		LL2	2343	2020
		LL3	3191	2751
		LL4	4164	3589
		LL5	5819	5016
		LL6	6627	5712
		LL7	8561	NA
		LL8	9920	NA

WATTS	EFFICACY (Lm/W) (Clear Lens)
10	152.4
13	159.9
18	161.5
23	160.1
34	152.4
40	148.4
56	136
73	121
10	161.6
13	169.5
18	171.2
23	169.7
34	161.6
40	157.4
56	144.2
73	128.2
10	167
13	175.1
18	176.8
23	175.3
34	167
40	162.6
56	149
73	132.5
10	173.2
13	181.6
18	183.4
23	181.8
34	173.2
40	168.6
56	154.5
73	137.4

UGR Data Table

Light Level @ 3500K [210] Smooth Reflector Clear Lens		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**
LL1	1586	3500K	16.1	4497
LL2	2259	3500K	17.3	6406
LL3	3077	3500K	18.4	8726
LL4	4014	3500K	19.3	11384
LL5	5610	3500K	20.5	15909
LL6	6389	3500K	20.9	18119
LL7	8253	3500K	21.8	23406
LL8	9565	3500K	22.3	27123

Light Level @ 3500K [210] Smooth Reflector Frosted Lens		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**
LL1	1367	3500K	16.8	3570
LL2	1948	3500K	18.0	5084
LL3	2653	3500K	19.1	6926
LL4	3460	3500K	20.0	9036
LL5	4836	3500K	21.2	12627
LL6	5507	3500K	21.6	14381

Lumen Maintenance

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