

Project		Catalog #		Type	
Prepared by		Notes		Date	




# PrentaLux

## 309-WC Water Cooler Fixture

3D Printed Luminaire  
A-19 LED Lamp Based Luminaire  
Decorative

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

-  **Interactive Menu**
- Order Information [page 2](#)
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### Certifications | Features | Awards







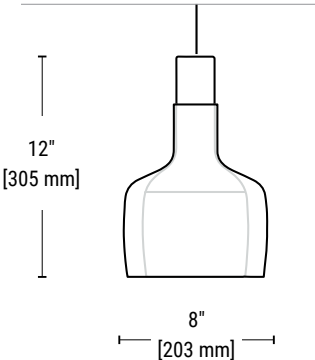




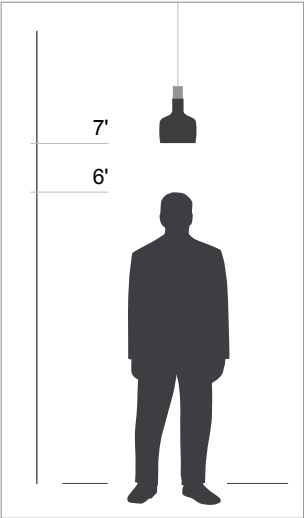

### Top Product Features

- PrentaLux 309-WC is a sustainable decorative pendant made from recycled water jugs using Cooper Lighting's proprietary 3D Printing technology.
- The outer shade is designed to create an artisanal glass like texture designed to complement real glass like affects. Product may contain tiny bubble like imperfections seen in artisanal glass products.
- A19 Lamp based, E26 socket: Frosted lamp, Filament lamp, or no lamp (up to 50W lamp is provided by others), options.
- Voltage is 120V only.
- 3D printed White mounting canopy available in disk or conical shape.
- White power cord
- 5 Year Warranty

### Dimensions



### Scale



Order Information

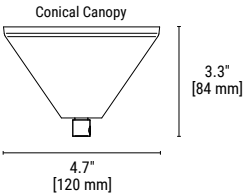
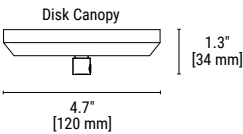
SAMPLE CATALOG NUMBER: PRLX-309-WC-NB-120-TRBLGY-TFIN-DW-WH

Domestic Preferences	Brand	Series	Source	Voltage
<b>[Blank]</b> = Standard <b>BAA</b> = Buy America Act	<b>PRLX</b>	<b>309-WC</b>	<b>NB</b> = No Lamp Supplied (Lamp by others) <b>FIL</b> = A19, E26 LED Filament lamp, 2700K, 60W incandescent equivalent <b>FR</b> = A19, E26 LED Frosted lamp, 3000K, 60W incandescent equivalent	<b>120</b> = 120V Voltage
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

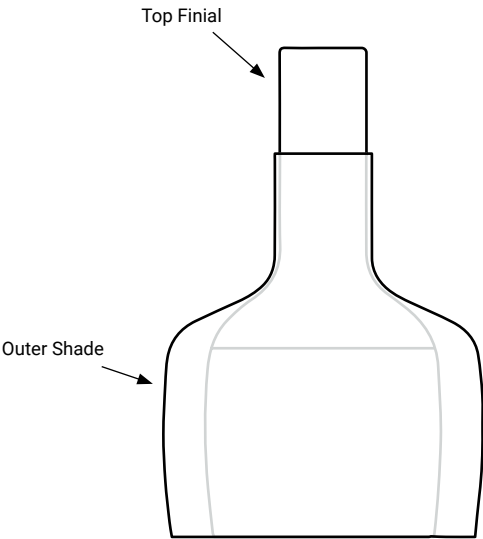
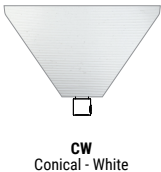
Continue here to make complete selections

Outer Shade Color	Top Finial Color	Canopy	Cord Color
<b>TRBLGY</b> = Translucent Blue Gray Tint	<b>TFIN</b> = Diffuse White	<b>DW</b> = Disk - White <b>CW</b> = Conical - White	<b>WH</b> = White power cord and white socket
Notes	Notes	Notes	Notes

Mounting - Canopy Options



Canopy Color



## Product Specifications

### Construction

- The 309-WC fixture sets the new standard for sustainable lighting by utilizing recycled polycarbonate (PC) from water jugs for the shade material.
- PrentaLux 309-WC consists of a lamp / socket combination that uses an A-19, E26 Socket LED lamp base.
- Proprietary additive manufacturing process for polycarbonate (PC) shade that comes from recycled water jugs.
- Thermally, mechanically, and optically optimized for professional/commercial installations.
- Designed, engineered, and printed in the United States.

### Electrical

- Standard 120V.

### LED Lamp

- Available in Filament based LED lamp, Frosted based LED lamp, or no lamp (up to 50W supplied by others), options.
- Frosted LED lamp is 15W equivalent to 60W incandescent lamp. 15,000 hour lamp life. 3000K @90 CRI. Output is 800 lumens. E26 base A19 lamp shape. Dimmable. Efficacy is 53.3 LPW.
- Filament LED lamp is 15W equivalent to 60W incandescent lamp. 15,000 hour lamp life. 2700K @90 CRI. Output is 800 lumens. E26 base A19 lamp shape. Dimmable. Efficacy is 53.3 LPW.

### Optics

- Output provided for specific re-cycled water jug material. See polar plots on page 4. UGR <15 (see data on page 4).
- The 309-WC fixture includes a standard inner diffuse shade to optimize consistency of light output

### Mounting

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

### Finish

- Outer shade is a blue gray tinted recycled water jug material. Texture represents artisanal glass. Imperfections in the printed material occur as part of the authenticity of the aesthetic.
- Top finial and inner shade are standard diffuse white finish.

### Cord Length

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

### Weight

- Product is light weight and much easier to install than traditional pendants. Fixture is less than 10lbs

### Environment

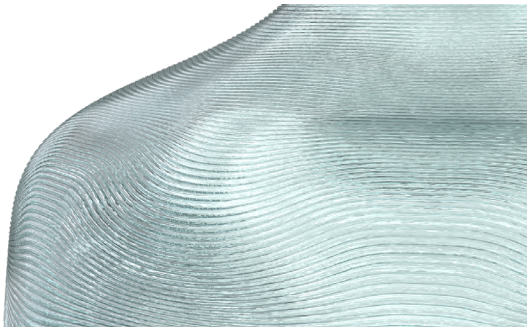
- Suited for 25° ambient. Dry location only

### Compliance

- All products are light weight and much easier to install than traditional pendants.
- Recycled PET filament
- Filament material is UL 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.

### Sustainable Products Specifications

- This PrentaLux 3D printed product is produced with at least 55% recycled polycarbonate from post consumer water jugs.
- Lightweight materials and local manufacturing reduce our carbon footprint during production and reduce the fixture's weight to minimize our transportation footprint.



By utilizing re-cycled polycarbonate and proprietary design and printing techniques, the Water Cooler fixture is designed to mimic actual beautiful artisanal glass-like affects

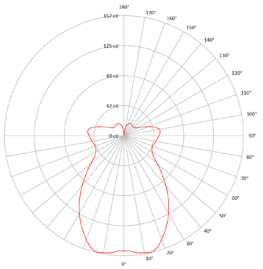
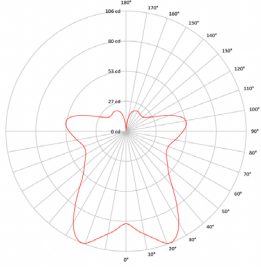


Tilted view into Water Cooler fixture showing inner diffuser and consistent shade illumination



The Water Cooler Fixture is a sustainable option to enhance and brighten bright spaces in offices, healthcare, or retail settings.

## Photometric Data

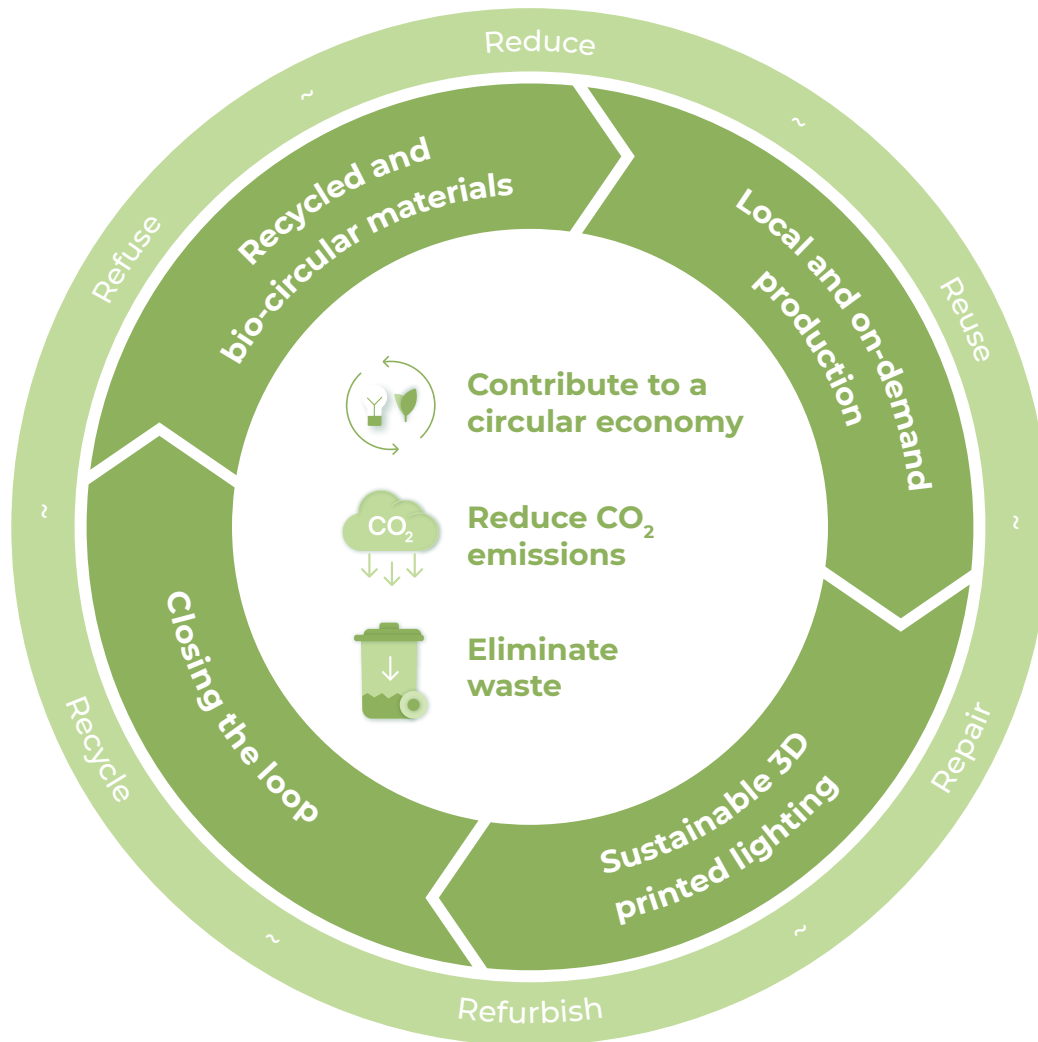
PRENTALUX - 309 -WC					
309 - WC - Frosted Lamp			309 - WC - Filament Lamp		
Filename	G2-2404-080-1.IES		G2-2404-080-1.IES		
Test No.	G2-2404-080-2		G2-2404-080-1		
Lumcat	PRLX-309-WC-FR-120-TRBLGY-TFIN-DW-WH		PRLX-309-WC-FIL-120-TRBLGY-TFIN-DW-WH		
Lumens	624.2 Lm		549.9 Lm		
Input Watts	7.91 W		7.77 W		
Efficacy	78.9 Lm/W		70.8 Lm/W		
CCT	3000K		2700K		
Spacing Criteria (0/90/45)	1.16 / 1.16 / 1.2		1.43 / 1.43 / 1.37		

## UGR Data

Fixture Type	CCT	UGR [CIE 190:2010] <sup>(1)</sup> (4H, 8H; Reflectance: 70% Ceiling, 50% Wall, 20% Ref. Plane		MAX LUMINANCE [45-90 DEG FROM NADIR] <sup>(2)</sup> (CD/M^2)	
		90 CRI		90 CRI	
		Frosted	Filament	Frosted	Filament
301	3000K (frosted) /2700K (filament)	14.8	14.6	1415	1092

Notes: (1) For other UGR data for room or reflective ceiling plans please consult customer service. (2) For other CCT please consult customer service.

(3) Averages taken over different colors. Tables available upon request.



## 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.*



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

**69%**  
of 309-WC fixture is made  
with 3D Printed material



**55%**

PrentaLux 309-WC is produced  
with at least 55% post-consumer  
recycled materials.