

CGL12

12" & 16" LED Performance Pendant

Specifications/Features

Fixture

High performance LED Pendant available in five (5) wattage/lumen packages from 28W/2200lm to 98W/8500lm. Available with a 12" specular metal reflector designed to direct all light downward for maximum output and smooth distribution. Acrylic lenses are also available in 12" and 16" sizes; both well suited for any application including retail and commercial settings. Installation options include cable or stem mono-point ceiling canopies. For cable installation, a 120" field adjustable flexible cable is included with the pendant. Alternately, for stem mounting, various rigid stem lengths are sold separately. Rigid stems range from 6" - 48" long; maximum allowable stem length is 10 feet.

Lamp

Light engine consists of a high output multi-chip LED array available in five (5) wattage/lumen packages: 28W/2200lm, 38W/3300lm, 50W/4100lm, 60W/6100lm, and 98W/8500lm (Lumens based on CM reflector). Excellent fixture-to-fixture color consistency within a 3-step MacAdam Ellipse tolerance. Available in the following color temperatures: 2700K, 3000K, 3500K, and 4000K; CRI: 80 min., 83 typical. System designed and rated for 50,000 hours at 70% lumen maintenance.

Dimming

All CGL12 fixtures are available for non-dimming and dimming applications. 0-10V Dimming, dimming range down to 15%. Standard option for all wattages. Dimmer control may be operated from an input signal of 0-10VDC. The following dimmer has been confirmed to dim to 15% output: Lutron NTFTV with PP120H or PP277H. Lutron HiLume Dimming, dimming range down to 1%. **Available only for 28W model.** For non-dimming applications, use driver option MVD2.

Electrical

The CGL12 Performance series utilizes drivers manufactured by Lutron, Roal, and Thomas Research Products. Consult factory for more information.

| Driver Specifications | Input Wattage | Input Voltage | Frequency |
|-----------------------|---------------|---------------|-----------|
| CGL1232 | 28W | 120V | 50-60Hz |
| MVD2 | 28W | 90-305V | 47-63Hz |
| MVD4 | 28W | 120-277V | 50-60Hz |
| CGL1254 | 38W | 90-305V | 47-63Hz |
| CGL1282 | 50W | 90-305V | 47-63Hz |
| CGL1290 | 60W | 90-305V | 47-63Hz |
| CGL12100 | 98W | 90-305V | 47-63Hz |

Emergency battery backup options available. Canopy mount with local switch (EC) or remote mount with remote switch (ER). Remote mount option comes with a thin canopy.

Warranty

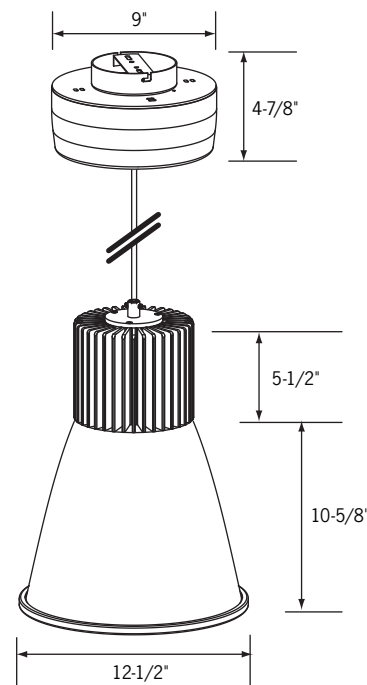
This complete fixture is covered by ConTech's full five (5) year replacement guarantee after date of purchase.

Listing

cCSAus Certified to UL standards. Tested in compliance with the Canadian Standards Association (CSA) as set forth in C22.2 No. 141, "Unit Equipment for Emergency Lighting." Suitable for damp locations.



Flexible cable mount shown with "A16" acrylic shade.



Rigid stem mount shown with "CM" metal reflector.

30KMVD2LLRSS

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Ordering Information

Example Order: —

| LED Module | Color Temp | Electrical/Dimming | Battery Back-Up | Shade | Mounting | Finish |
|---|--|--|---|---|---|---|
| <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| CGL1232 - 28W CGL1254 - 38W CGL1282 - 50W CGL1290 - 60W CGL12100 - 98W | 27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K | 12D1 - 120V Triac Dimming 28W Only MVD2 - 120/277V with 0-10V Dimming MVD4 - Lutron HiLume® Dimming; 28W Fixture Only | - None, Leave Blank EC - Canopy Mount Local Switch, 6.5W ER - Remote Mount, Remote Switch, 6.5W, Includes Thin Canopy | A12 - 12" Acrylic Shade A16 - 16" Acrylic Shade AL16 - 16" Aluminum Shade, Silver Finish CM - 12" Metal Reflector, Silver Finish, Medium Distribution CW - 12" Metal Reflector, Silver Finish, Wide Distribution | FC - Flexible Cable Included RS - Rigid Stem* Sold Separately, See Below | B - Black Housing/Black Cord P - White Housing/White Cord S - Silver Housing/Black Cord Silver Cord Option, Consult Factory |

Accessories

Rigid Stem Lengths for "RS" Mount Only; 10 Ft. Max Stem Length

- | | | |
|----------------------------|--|--|
| 6" STEM(A)-(B,P,S) | 30" STEM(A)-(B,P,S) | PACDLA12 - Optional 12" Conical Acrylic Prismatic Drop Lens and Clamp |
| 12" STEM(A)-(B,P,S) | 36" STEM(A)-(B,P,S) | PASFLA12 - Optional 12" Smooth Acrylic Flat Lens and Clamp |
| 18" STEM(A)-(B,P,S) | 48" STEM(A)-(B,P,S) | PACDLA16 - Optional 16" Conical Acrylic Prismatic Drop Lens and Clamp |
| 24" STEM(A)-(B,P,S) | COUPLING-(B,P,S) - External Coupling for Connecting Stems | PASFLA16 - Optional 16" Smooth Acrylic Flat Lens and Clamp |

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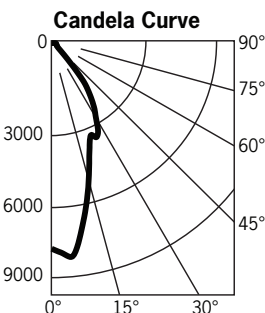
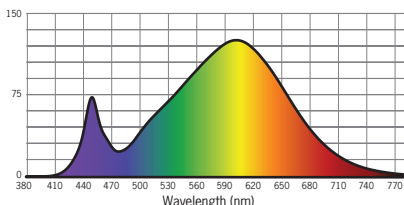
12" & 16" LED Performance Pendant

Photometrics

12", 62W, 3000K: CGL129030KMVD2A12FC

Designed for 50,000 Hour Lamp Life¹; LM-63 Test No. 79684

Light Output (Fixture Delivered Lumens): 6436
Total Watts@120V: 59.4
Lumens Per Watt: 108.4
Color Rendering Index (CRI)²: 82
Color Temperature (CCT)³: 3091K Neutral White
Spectral Power Distribution Chart⁴
 LM-79 Test No. 79688



| FROM 0 | CANDELA | LUMENS |
|--------|---------|--------|
| 0 | 7887 | |
| 5 | 8234 | 738 |
| 15 | 5429 | 1513 |
| 25 | 4037 | 1785 |
| 35 | 2550 | 1525 |
| 45 | 290 | 293 |
| 55 | 217 | 189 |
| 65 | 130 | 131 |
| 75 | 69 | 75 |
| 85 | 36 | 41 |
| 95 | 27 | 29 |

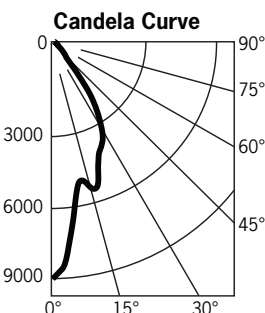
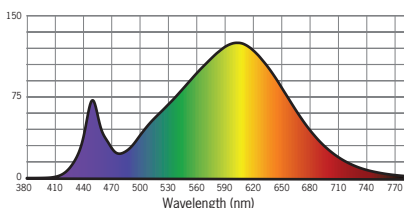
| DISTANCE (FT.) | FOOTCANDLES (FC) | BEAM DIAMETER (FT.) |
|----------------|------------------|---------------------|
| 6' | 219.1 | 3.9 |
| 8' | 123.2 | 5.3 |
| 10' | 78.9 | 6.6 |
| 12' | 54.8 | 7.9 |
| 14' | 40.2 | 9.2 |
| 16' | 30.8 | 10.5 |

Beam Distribution: 41°

16", 62W, 3000K: CGL129030KMVD2A16FC

Designed for 50,000 Hour Lamp Life¹; LM-63 Test No. 79685

Light Output (Fixture Delivered Lumens): 6507
Total Watts@120V: 59.4
Lumens Per Watt: 109.5
Color Rendering Index (CRI)²: 82
Color Temperature (CCT)³: 3083K Neutral White
Spectral Power Distribution Chart⁴
 LM-79 Test No. 79689



| FROM 0 | CANDELA | LUMENS |
|--------|---------|--------|
| 0 | 8950 | |
| 5 | 7459 | 647 |
| 15 | 5751 | 1557 |
| 25 | 4319 | 1970 |
| 35 | 2425 | 1395 |
| 45 | 548 | 419 |
| 55 | 219 | 200 |
| 65 | 124 | 125 |
| 75 | 52 | 58 |
| 85 | 21 | 23 |
| 95 | 18 | 19 |

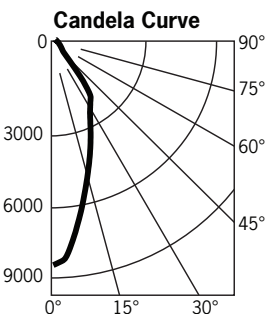
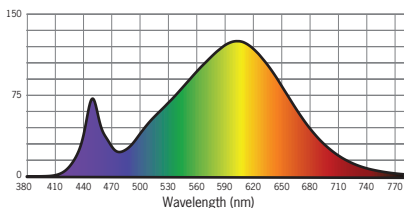
| DISTANCE (FT.) | FOOTCANDLES (FC) | BEAM DIAMETER (FT.) |
|----------------|------------------|---------------------|
| 6' | 248.6 | 4.1 |
| 8' | 139.8 | 5.5 |
| 10' | 89.5 | 6.8 |
| 12' | 62.2 | 8.2 |
| 14' | 45.7 | 9.6 |
| 16' | 35.0 | 10.9 |

Beam Distribution: 46°

16", 62W, 3000K: CGL129030KMVD2AL16FC

Designed for 50,000 Hour Lamp Life¹; LM-63 Test No. 79690

Light Output (Fixture Delivered Lumens): 5293
Total Watts@120V: 59.5
Lumens Per Watt: 89
Color Rendering Index (CRI)²: 81
Color Temperature (CCT)³: 3086K Neutral White
Spectral Power Distribution Chart⁴
 LM-79 Test No. 79689



| FROM 0 | CANDELA | LUMENS |
|--------|---------|--------|
| 0 | 8475 | |
| 5 | 7720 | 689 |
| 15 | 5027 | 1406 |
| 25 | 3226 | 1506 |
| 35 | 1930 | 1026 |
| 45 | 383 | 298 |
| 55 | 211 | 191 |
| 65 | 110 | 110 |
| 75 | 49 | 53 |
| 85 | 10 | 13 |
| 95 | 0 | |

| DISTANCE (FT.) | FOOTCANDLES (FC) | BEAM DIAMETER (FT.) |
|----------------|------------------|---------------------|
| 6' | 235.4 | 3.5 |
| 8' | 132.4 | 4.6 |
| 10' | 84.8 | 5.8 |
| 12' | 58.9 | 7.0 |
| 14' | 43.2 | 8.1 |
| 16' | 33.1 | 9.3 |

Beam Distribution: 38°

To estimate output at other wattages or color temperatures, please multiply the CPL6 results by the following:

| | | | | | | | |
|------------|------------|------------|------------|--------------|--------------|--------------|--------------|
| 28W | 38W | 50W | 98W | 2700K | 3000K | 3500K | 4000K |
| 0.38 | 0.57 | 0.70 | 1.20 | 0.92 | 1.0 | 1.03 | 1.04 |

1. Dependent on surrounding temperatures
 2. Accuracy of rendering colors
 3. Color appearance of light source
 4. Colors present within the light source

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Photometrics

12", 62W, 3000K: CGL129030KMVD2CWFC

Designed for 50,000 Hour Lamp Life¹; LM-63 Test No. 81421

Light Output (Fixture Delivered Lumens): 5766

Total Watts@120V: 59.2

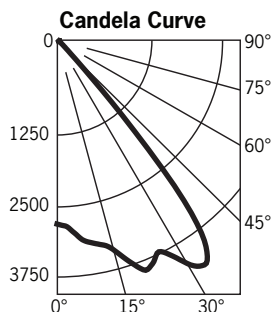
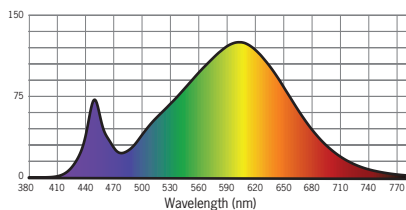
Lumens Per Watt: 97

Color Rendering Index (CRI)²: 81

Color Temperature (CCT)³: 3086K Neutral White

Spectral Power Distribution Chart⁴

LM-79 Test No. 79689



| Candlepower Summary | | |
|---------------------|---------|--------|
| FROM 0 | CANDELA | LUMENS |
| 0 | 2947 | |
| 5 | 3101 | 303 |
| 15 | 3497 | 1014 |
| 25 | 3742 | 1802 |
| 35 | 4037 | 2237 |
| 45 | 239 | 322 |
| 55 | 52 | 49 |
| 65 | 24 | 24 |
| 75 | 10 | 11 |
| 85 | 3 | 3 |
| 95 | 0 | |

| Intensity Distribution | | |
|------------------------|------------------|---------------------|
| DISTANCE (FT.) | FOOTCANDLES (FC) | BEAM DIAMETER (FT.) |
| 6' | 81.9 | 9.3 |
| 8' | 46.0 | 12.5 |
| 10' | 29.5 | 15.6 |
| 12' | 20.5 | 18.7 |
| 14' | 15.0 | 21.8 |
| 16' | 11.5 | 24.9 |

Beam Distribution: 78°

To estimate output at other wattages or color temperatures, please multiply the CPL6 results by the following:

| 28W | 38W | 50W | 98W |
|------|------|------|------|
| 0.38 | 0.57 | 0.70 | 1.20 |

| 2700K | 3000K | 3500K | 4000K |
|-------|-------|-------|-------|
| 0.92 | 1.0 | 1.03 | 1.04 |

1. Dependent on surrounding temperatures
 2. Accuracy of rendering colors
 3. Color appearance of light source
 4. Colors present within the light source