

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 12D1	28W	120V	50-60Hz
MVD2	28W	90-305V	47-63Hz
MVD4	28W	120-277V	50-60Hz
CGL1254 MVD2	38W	90-305V	47-63Hz
CGL1282 MVD2	50W	90-305V	47-63Hz
CGL1290 MVD2	60W	90-305V	47-63Hz
CGL12100 MVD2	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

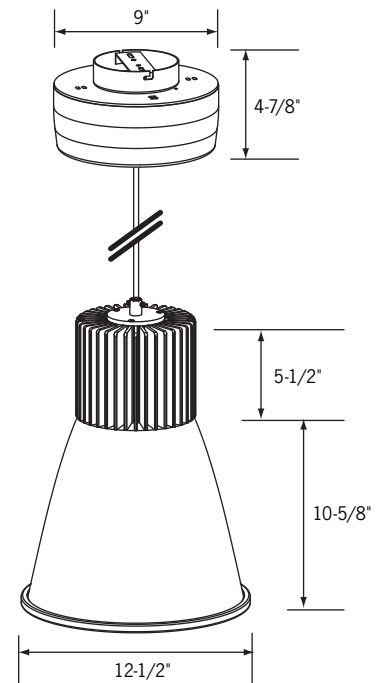
This complete fixture is covered by ConTech's full five (5) year replacement guarantee after date of purchase.

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.

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Ordering Information

Example Order: —

LED Module	Color Temp	Electrical/Dimming	Battery Back-Up	Shade	Mounting	Finish
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 <i>Silver Cord Option, Consult Factory</i>

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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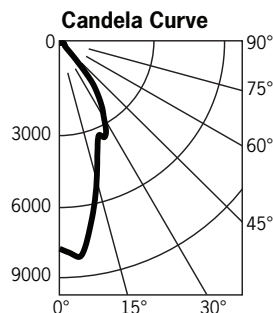
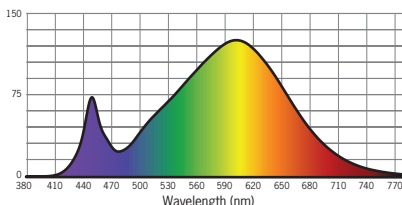
12" & 16" LED Performance Pendant

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

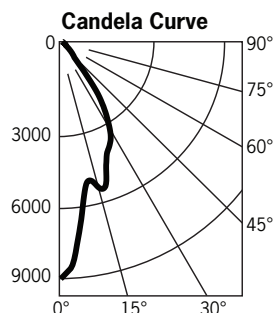
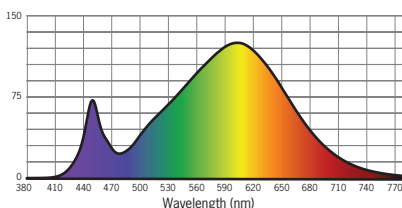
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6'	219.1	3.9
8'	123.2	5.3
10'	78.9	6.6
12'	54.8	7.9
14'	40.2	9.2
16'	30.8	10.5

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

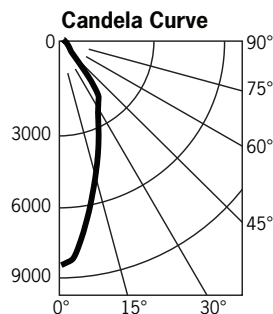
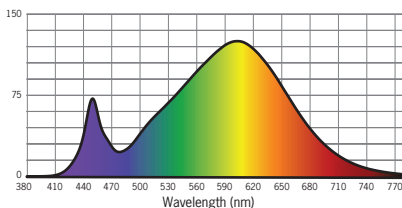
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6'	248.6	4.1
8'	139.8	5.5
10'	89.5	6.8
12'	62.2	8.2
14'	45.7	9.6
16'	35.0	10.9

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
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

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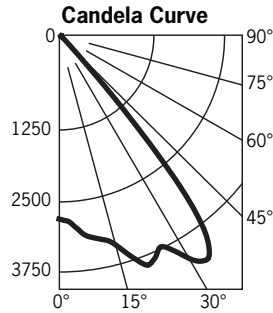
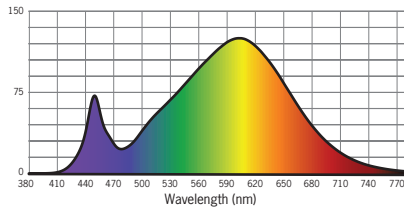
12" & 16" LED Performance Pendant

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



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