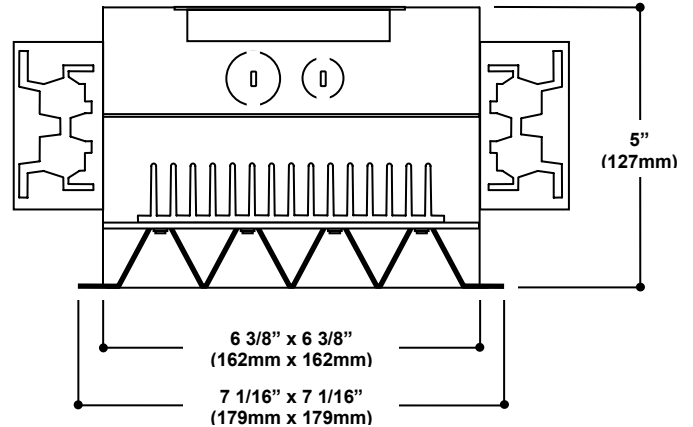


6" Square LED Downlight – High Efficiency

FEATURES

- The Gallium GS6-CX series features sixteen Cree XRE or XPG power LEDs providing energy savings and low maintenance:
 - LED efficacy of up to 124 lumens per watt - 60% higher than the most efficient compact fluorescent lamps and 39% more efficient than T-8 lamps.
 - Hemispherical light distribution providing high optical efficiency, resulting in luminaire efficacy of 72 lumens per watt.
 - 50,000 hour service life, equating to 25 years when operated during normal business hours.
- 1.5" (38mm) LED spacing and heavy duty heat sink maintain junction temperature below 75°C at 25°C ambient (well below Cree's limit of 150°C) to maximize efficacy and prolong life.
- Drivers and printed circuit board are accessible from below the fixture. A quick disconnect plug simplifies board replacement.
- Optional dimming feature provides flicker-free dimming to 15% with dimmers listed on page 2 of this document.
- The 18 gauge steel housing is compatible with ceiling materials up to 1" (25mm) thick. Mounting bars included.
- Standard 16-cell reflector is constructed of Alanod 685 G3 grade aluminum and provides a 45° shielding angle to eliminate glare.
- The fixture is UL listed for damp locations and approved for eight #12 AWG conductors (four in, four out) feed-through 75°C branch wiring.
- Rated for ambient temperatures of -40°C (-40°F) to 60°C (140°F).
- Environmentally-friendly, mercury-free technology.
- Fixture assembled in USA. 5-year limited warranty.



APPLICATIONS

The GS6-CXPG delivers more light than many 32-watt compact fluorescent downlights, yet consumes only 19.5 watts. Ideal for use with occupancy sensors since LED life is unaffected by frequent on/off cycling.

ORDERING INFORMATION

Housing

Prefix	Shape	Size	Part	Driver	Current	LEDs	LED Type	Mounting
G	S	6	H	MV <u> </u>	350	16	CX <u> </u> - <u> </u> - <u> </u>	<u> </u> - <u> </u> - <u> </u>
G= Gallium	S= Square	6=6"	H= Housing	MV= Multi-Volt, 100-277V, 50-60Hz MVD= Multi-Volt Dimming, 100-277V, 50-60Hz	350= 350mA	16=16 LEDs	CXPG-30-1710=3000K, 1710 LED lumens CXPG-35-1830=3500K, 1825 LED lumens CXPG-40-2080=4000K, 2080 LED lumens CXPG-50-2080=5000K, 2080 LED lumens CXRE-27-1180=2700K, 1180 LED lumens CXRE-30-1290=3000K, 1290 LED lumens CXRE-35-1400=3500K, 1400 LED lumens CXRE-40-1400=4000K, 1400 LED lumens CXRE-50-1710=5000K, 1710 LED lumens	CMB= Commercial Mounting Bars RMB= Residential Mounting Bars

Trim

Prefix	Shape	Size	Part	Style	Flange
G	S	6	T	<u> </u>	1
G= Gallium	S= Square	6=6"	T=Trim	16SS=16 cell semi-specular reflector 16W=16 cell white PL=Prismatic lens DL=Diffuse lens 16SSPL=16 cell reflector with prismatic lens 16SSDL=16 cell reflector with diffuse lens	1=Overlap flange

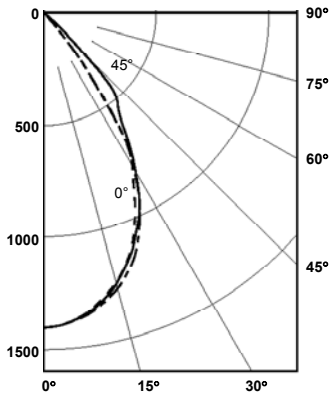
Accessories

Replacement LED boards: **GS6B-16**-[LED Type]
Emergency battery pack – consult factory



6" Square LED Downlight – High Efficiency

PHOTOMETRIC DATA – GS6-16CXPG-50-2080-GS6T-16SS1



CANDLEPOWER SUMMARY			
Angle	0°	45°	90°
0°	1,405	1,405	1,405
10°	1,327	1,333	1,342
20°	1,131	1,140	1,170
30°	789	819	803
40°	167	509	161
50°	11	42	14
60°	2	3	2
70°	0	0	0
80°	0	0	0
90°	0	0	0

ZONAL LUMEN SUMMARY		
Zone	Lumens	%Fixture
0° - 30°	940	67.4
0° - 40°	1,294	92.8
0° - 60°	1,394	99.9
0° - 90°	1,395	100.0

Spacing Criteria: 0° - 0.9, 90° - 1.0

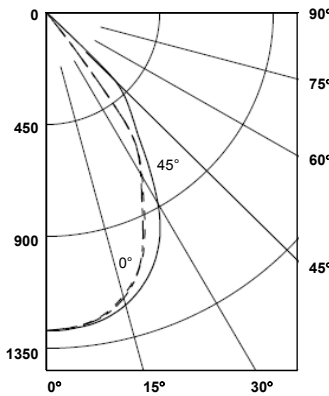
Notes

1. Source: Independent Testing Laboratories Test Report 63910.
2. Tested in accordance with LM-79.

LED Options

LED Type	Nominal Color Temperature	Color Rendering Index	LED Lumens ¹	LED Array Lumens	LED Lumens Per Watt ²	Luminaire Lumens ³	Luminaire Lumens Per Watt ⁴	Photometric Data Multiplier ⁵
CXPG-30-1710	3000K	80	104	1,710	102	1,145	59	82%
CXPG-35-1830	3500K	80	114	1,825	109	1,222	63	87%
CXPG-40-2080	4000K	75	130	2,080	124	1,395	72	100%
CXPG-50-2080	5000K	75	130	2,080	124	1,395	72	100%

PHOTOMETRIC DATA – GS6-16CXRE-50-1710-GS6T-16SS1



CANDLEPOWER SUMMARY			
Angle	0°	45°	90°
0°	1,279	1,279	1,279
10°	1,242	1,257	1,246
20°	1,086	1,150	1,084
30°	761	886	751
40°	41	522	39
50°	8	31	8
60°	3	2	3
70°	1	1	1
80°	0	0	0
90°	0	0	0

ZONAL LUMEN SUMMARY		
Zone	Lumens	%Fixture
0° - 30°	907	67.2
0° - 40°	1,279	94.8
0° - 60°	1,349	99.9
0° - 90°	1,350	100.0

Spacing Criteria: 0° - 1.0, 90° - 1.0

Notes

1. Source: Independent Testing Laboratories Test Report 59900.
2. Absolute photometric test.

LED Options

LED Type	Nominal Color Temperature	Color Rendering Index	LED Lumens ¹	LED Array Lumens	LED Lumens Per Watt ²	Luminaire Lumens ³	Luminaire Lumens Per Watt ⁴	Photometric Data Multiplier ⁵
CXRE-27-1180	2700K	80	74	1,180	64	934	45	69%
CXRE-30-1290	3000K	80	81	1,290	70	1,022	49	76%
CXRE-35-1400	3500K	80	87	1,400	76	1,105	54	82%
CXRE-40-1400	4000K	80	87	1,400	76	1,105	54	82%
CXRE-50-1710	5000K	75	107	1,710	93	1,350	65	100%

ELECTRICAL DATA

LED Type	Input Current		Input Power*	Total Harmonic Distortion	Power Factor
	120V	277V			
CXPG	0.16A	0.07A	19.5W	<20%	>0.90
CXRE	0.17A	0.07A	20.8W	<20%	>0.90

Compatible Dimming Controls

Compatible with most 120V electronic low voltage dimmers (i.e. trailing-edge control). The following dimmers are recommended:

Lutron: Skylark SELV-300P & SELV-303P, Diva DVELV-300P & DVELV-303P, Maestro MAELV-600, Nova NELV-450, Nova T NTELV-300 & NELV-600, Interface ELVI-1000. Leviton: Acenti ACE06-ILW, Illumatech IPE04, 6615, Surslide R02-06615-P0W, Vizia VZE06-1LZ.

* Input power at full brightness.

1. Minimum initial lumens @ 350mA per Cree.
2. Minimum initial lumens divided by LED input wattage.
3. Based on actual measured output of test luminaire. Other LED options prorated using Cree's rated lumen output.

4. Total luminaire efficacy, i.e., lumens delivered from the luminaire divided by luminaire input wattage. This includes the effects of driver losses, optical losses and thermal losses.
5. Apply these multipliers to test report data provided above.