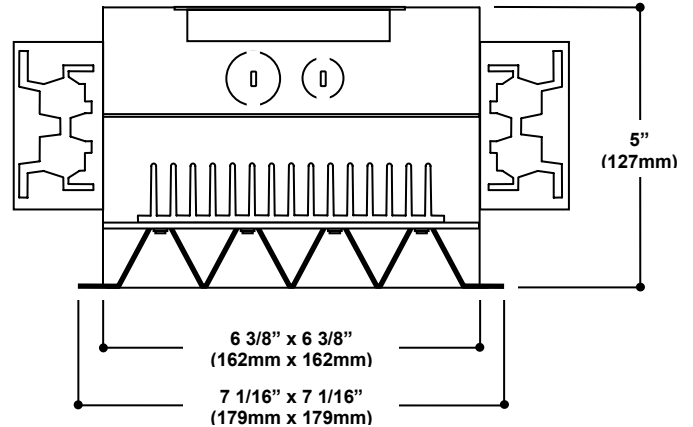


# 6" Square LED Downlight – Very High Performance

## FEATURES

- The Gallium GS6-CXPG features sixteen Cree XP-G power LEDs providing unsurpassed performance:
  - LED efficacy of 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 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 drivers provide full range (0-100%) flicker-free dimming with standard incandescent dimmers.
- 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 manufactured in USA. 5-year warranty on all parts.



## 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

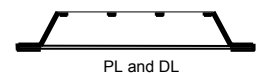
Prefix	Shape	Size	Part	Driver	LEDs	LED Model	LED Type
<b>G</b>	<b>S</b>	<b>6</b>	<b>H</b>	<b>-350</b>	<b>16</b>	<b>CXPG</b>	
G=Gallium S=Square 6=6" H=Housing				120-350=120V, 350mA 277-350=277V, 350mA 120D-350=120V Dimming* 277D-350=277V Dimming*	16=16 LEDs	CXPG=Cree XP-G Series	50-2080=5000K, 2080 LED lumens

### Trim

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

### Accessories

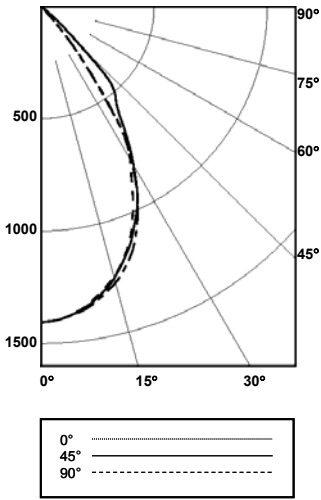
Replacement LED boards:  
**GS6B-16-CXPG-[LED Type]**



\* Consult factory for availability.

# 6" Square LED Downlight – Very High Performance

## PHOTOMETRIC DATA



Spacing Criteria:  
0° - 0.9, 90° - 1.0

### 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

### Notes

1. Source: Independent Testing Laboratories Test Report 63910.
2. Photometric test performed with Cree XP-G LEDs (XPG WHT-L1-0000-00G51).
3. The test was performed using the absolute method, i.e. photometric performance is reported as measured, without adjustment for LED manufacturer's lumen output ratings.
4. Photometric data are available in electronic IES format at [www.galliumlighting.com](http://www.galliumlighting.com).

### LUMINANCE DATA (cd/m<sup>2</sup>)

Angle	0°	45°	90°
45°	1,715	14,988	1905
55°	470	470	470
65°	213	213	213
75°	0	0	0
85°	0	0	0

## LED DATA

Gallium LED Ordering Code	Nominal Color Temp.	Color Temperature Range	Color Rendering Index	LED Lumens <sup>1</sup>	LED Array Lumens	LED Lumens Per Watt <sup>2</sup>	Luminaire Lumens <sup>3</sup>	Luminaire Lumens Per Watt <sup>4</sup>	Photometric Data Adjustment Multiplier
50-2080	5000K	4800-6000K	75	130	2,080	124	1,405	72	100%
40-XXXX	4000K					TBD <sup>5</sup>			
30-XXXX	3000K					TBD <sup>5</sup>			

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 (ITL test report 63910).

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. Consult factory for availability.

## ELECTRICAL DATA

Driver	Description	LED Drive Current	Input Frequency	Input Current @120V	Input Power*	Total Harmonic Distortion	Power Factor
120-350	120V	350mA	60Hz	0.17A	19.5W	<20%	>0.90
277-350	277V	350mA	60Hz	0.07A	19.5W	<20%	>0.90
120D-350	120V Dimming	350mA	60Hz	0.17A	19.5W	<20%	>0.90
277D-350	277V Dimming	350mA	60Hz	0.07A	19.5W	<20%	>0.90

\* The fixture consumes no power when switched off.