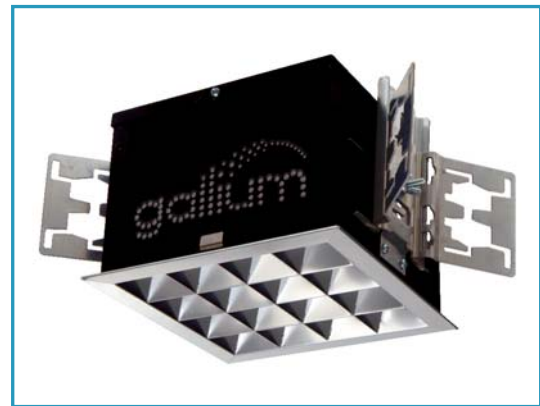
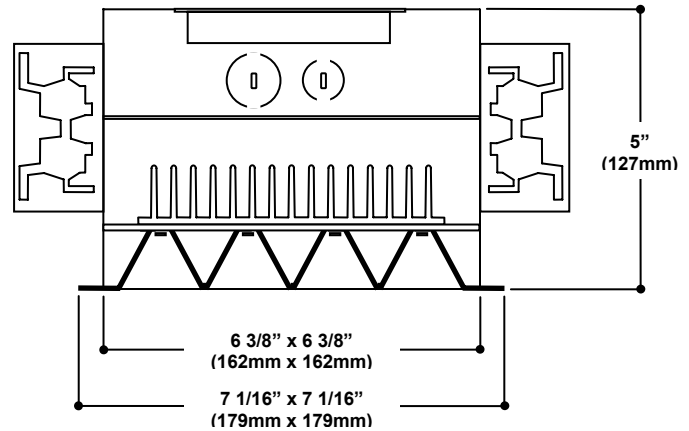


# 6" Square LED Downlight

## FEATURES

- The Gallium GS6-X features high-performance LEDs providing unsurpassed performance:
  - LED efficacy up to 84 lumens per watt - 10% higher than the most efficient compact fluorescent lamps.
  - Hemispherical light distribution providing high optical efficiency, resulting in luminaire efficacy up to 50 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 manufacturer's limit of 125°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.
- 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 Alonod 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-X delivers more light than many 32-watt compact fluorescent downlights, yet consumes only 21 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>X</b>	
G=Gallium	S=Square	6=6"	H=Housing	120-350=120V, 350mA 277-350=277V, 350mA	16=16 LEDs	X = Gallium choice LEDs	27-1280=2700K, minimum 1280 lumens 30-1280=3000K, minimum 1280 lumens 35-1440=3500K, minimum 1440 lumens 40-1440=4000K, minimum 1440 lumens 50-1760=5000K, minimum 1760 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 overlay 16SSDL=16 cell reflector with diffuse lens overlay 16WPL=16 cell white reflector with prismatic lens overlay 16WDL=16 cell white reflector with diffuse lens overlay	1=Overlap flange

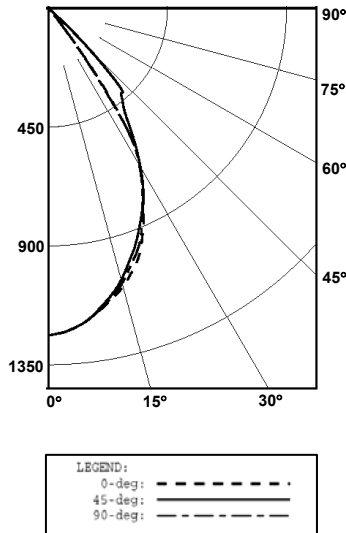
### Accessories

Replacement LED boards:  
**GS6B-16-GS6-X**-[LED Type]

Mounting bars:  
**GBH-1246** (set of 6 pairs) for commercial construction  
**GBH-1287** (set of 6 pairs) for residential/wood construction

## 6" Square Series

### PHOTOMETRIC DATA



#### CANDLEPOWER SUMMARY

Angle	0°	45°	90°
0°	1,239	1,239	1,239
5°	1,212	1,211	1,212
15°	1,091	1,065	1,078
25°	854	840	843
35°	372	524	333
45°	17	209	18
55°	5	5	5
65°	2	2	2
75°	1	1	1
85°	0	0	0
90°	0	0	0

#### ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp
0° - 30°	802	70.2
0° - 40°	1,085	95.0
0° - 60°	1,139	99.8
0° - 90°	1,142	100.0

#### Notes

1. Source: Independent Testing Laboratories Test Report 62989.
2. 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.
3. 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°	1,080	13,273	1,143
55°	391	391	391
65°	213	213	213
75°	174	174	174
85°	0	0	0

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

### LED DATA

Gallium LED Ordering Code	Nominal Color Temperature	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 <sup>5</sup>
27-1280	2700K	2600K-2900K	75	80	1,280	61	762	36	66%
30-1280	3000K	2900K-3300K	75	80	1,280	61	762	36	66%
35-1440	3500K	3300K-3700K	75	90	1,440	69	857	41	74%
40-1440	4000K	3700K-4300K	75	90	1,440	69	857	41	74%
50-1760	5000K	4800K-6000K	65	110	1,760	84	1,047	50	91%

1. Minimum initial lumens @ 350mA per manufacturer.
2. Minimum initial lumens divided by LED input wattage.
3. Based on actual measured output of test luminaire (ITL test report 62989). Other LED options prorated using manufacturer'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. Use these factors to adjust the photometric data from ITL report 62989 for the specified LED.

### ELECTRICAL DATA

Driver	Description	LED Drive Current	Input Frequency	Input Current @120V	Input Power <sup>1</sup>	Total Harmonic Distortion	Power Factor
120	120V	350mA	60Hz	0.17A	21W	<20%	>0.90
277	277V	350mA	60Hz	0.07A	21W	<20%	>0.90