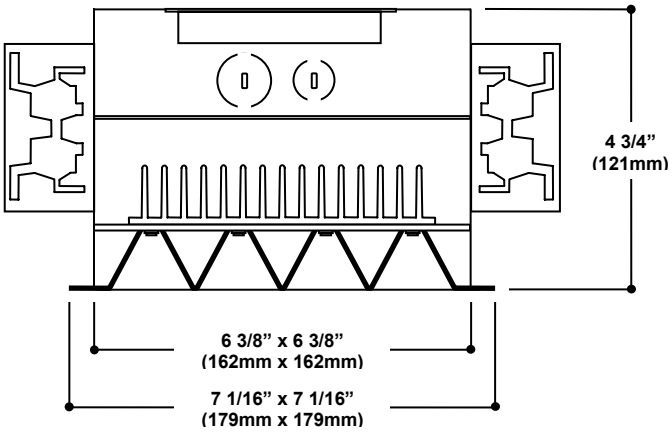
6" Square - Lumileds Rebel LEDs - 350mA

GS6-LR-350

FEATURES

- The Gallium GS6-LR features sixteen Philips Lumileds Rebel power LEDs providing unsurpassed performance:
  - LED efficacy up to 91 lumens per watt - 20% 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” LED spacing and heavy duty heat sink maintain junction temperature below 75ºC at 25ºC ambient (well below Lumileds’ limit of 135ºC) 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.
- Standard 16-cell reflector is constructed of Alanod 685 G3 grade aluminum and provides a 45º shielding angle.
- The fixture is UL listed for indoor applications, damp locations, insulation contact (IC), and approved for eight #12 AWG conductors (four in, four out) feed-through 75ºC branch wiring.
- Rated for ambient temperatures of -40ºC (-40ºF) to 60ºC (140ºF).
- Environmentally-friendly, mercury-free technology.
- Fixture manufactured in USA. 3-year warranty on all parts.



APPLICATIONS

The 1280 lumen version of the GS6-LR is a direct replacement for a comparable 26-watt compact fluorescent downlight. The 1600 lumen version replaces a typical 32-watt compact fluorescent downlight. Both consume only 21 watts.

ORDERING INFORMATION

Housing

Prefix	Shape	Size	Part		Driver		LEDs	LED Model		LED Type**
G	S	6	H	-	-350	-	16	LR	-	

G=Gallium **S**=Square **6**=6” **H**=Housing

120-350=120V, 350mA
277-350=277V, 350mA
120D-350=120V Dimming*
277D-350=277V Dimming*
UNVEM-350=100-277V emergency battery pack*

16=16 LEDs

LR=Lumileds Rebel

35-1280=3500K, 1280 LED lumens
40-1280=4000K, 1280 LED lumens
50-1600=5000K, 1600 LED lumens

Trim

Prefix	Shape	Size	Part		Style	Flange
G	S	6	T	-		1

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-LR-[LED Type]
Mounting bars:
GBH-1246 (set of 6 pairs) for commercial construction
GBH-1287 (set of 6 pairs) for residential/wood construction

* Consult factory for availability.
**Consult factory for other Rebel LED options.

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LED LIGHTING SYSTEMS

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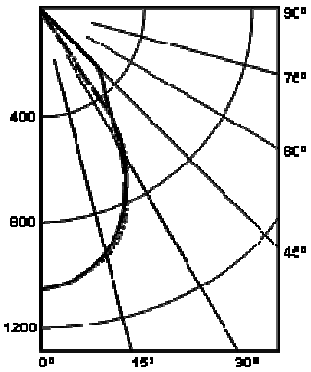
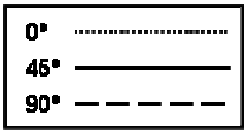
GS6-LR-350

PHOTOMETRIC DATA





Spacing Criteria:
0° - 1.0, 90° - 1.0

CANDLEPOWER SUMMARY

Angle	0°	45°	90°
0°	1,053	1,053	1,053
10°	1,004	1,006	1,003
20°	887	863	870
30°	627	624	617
40°	18	365	20
50°	5	5	6
60°	1	1	2
70°	0	0	0
80°	0	0	0
90°	0	0	0

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0° - 30°	711	68.4
0° - 40°	989	95.1
0° - 60°	1,039	99.9
0° - 90°	1,040	100.0

Notes

1. Source: Independent Testing Laboratories Test Report 59190.
2. Photometric tests were performed with Rebel LXML-PWC1-0100 LEDs.
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.

LUMINANCE DATA (cd/m^2)

Angle	0°	45°	90°
45°	698	19,046	698
55°	235	157	235
65°	106	106	106
75°	0	0	0
85°	0	0	0

LED DATA

Gallium LED Ordering Code	Philips Lumileds Luxeon Catalog Number	Nominal Color Temp.	Color Temperature Range	Color Rendering Index	LED Lumens[1]	LED Array Lumens	LED Lumens Per Watt[2]	Luminaire Lumens[3]	Luminaire Lumens Per Watt[4]	Photometric Data Adjustment Multiplier[5]
35-1280	LXML-PWN1-0080	3500K	3500-3800K	75	80	1,280	73	832	40	80%
40-1280	LXML-PWN1-0080	4000K	3800-4500K	75	80	1,280	73	832	40	80%
50-1600	LXML-PWC1-0100	5000K	4500-5600K	70	100	1,600	91	1,040	50	100%

1. Minimum initial lumens @ 350mA per Philips Lumileds.
2. Minimum initial lumens divided by LED input wattage.
3. Based on actual measured output of test luminaire (ITL test report 59190). Other LED options prorated using Lumiled's rated lumen output.
4. Represents 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 59190 for the specified LED. Fixtures equipped with emergency battery packs operate 3 LEDs at full brightness for 90 minutes in emergency mode, so apply an additional multiplier of 0.19. Use 0.90 multiplier for prismatic lens trims and 0.80 multiplier for diffuse lens trims.

ELECTRICAL DATA

Driver	Description	LED Drive Current	Input Frequency	Input Current @120V	Input Power[1]	Total Harmonic Distortion	Power Factor
120-350	120V	350mA	60Hz	0.17A	21W	<20%	>0.90
277-350	277V	350mA	60Hz	0.07A	21W	<20%	>0.90
120D-350[2]	120V Dimming	350mA	60Hz	0.17A	21W	<20%	>0.90
277D-350[3]	277V Dimming	350mA	60Hz	0.07A	21W	<20%	>0.90

[1] The fixture consumes no power when switched off, except when equipped with emergency battery pack.

[2] Compatible with Lutron Nova N-600 dimmer or equivalent.

[3] Compatible with Lutron Nova T NTLV-600-277 or equivalent.

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