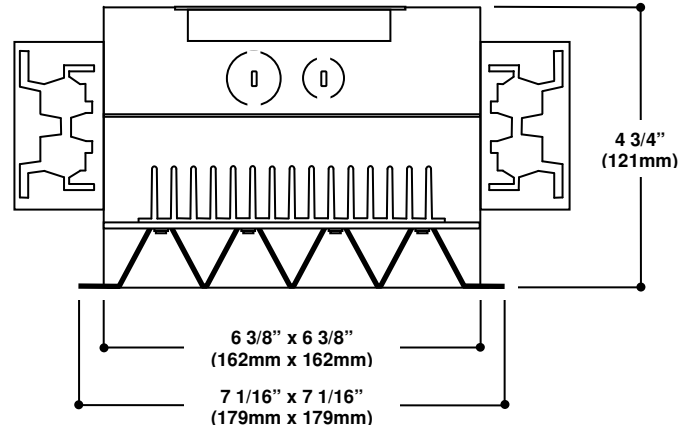


# 6" Square LED Downlight – High CRI

## FEATURES

- The Gallium GS6-NS6 features sixteen Nichia Power LEDs producing full-spectrum white light with 92 CRI to provide color rendering properties comparable to incandescent light.
- 40,000 hour service life, equating to 20 years when operated during normal business hours.
- Minimum 930 lumens, which is 23% more than a 65W BR30 incandescent lamp, yet the luminaire draws only 26 watts.
- 1.5" (38mm) LED spacing and heavy duty heat sink maintain junction temperature below 85°C at 25°C ambient (well below Nichia's limit of 120°C) to maximize efficacy and prolong life.
- Electronic drivers provide a constant 350mA current to the LEDs to provide optimum operation and maximum longevity of the LEDs.
- 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.
- Environmentally friendly mercury-free technology.
- Fixture manufactured in USA. 3-year warranty on all parts.



## APPLICATIONS

Suitable for commercial applications (such as offices, medical facilities, schools and retail spaces) as well as residential applications (such as kitchens, bathrooms and media centers). 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>16</b>	<b>NS6x083</b>	
G=Gallium	S=Square	6=6"	H=Housing	120=120V 277=277V 120D=120V Dimming* 277D=277V Dimming* UNVEM=Universal voltage driver with emergency battery pack*	16=16 LEDs	NS6x083=Nichia NS6x083 series	35-930H=3500K, 930 lumens, 92 CRI 40-930H=4000K, 930 lumens, 92 CRI

### 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-NS6x083-[LED Type]



PL and DL

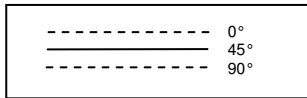
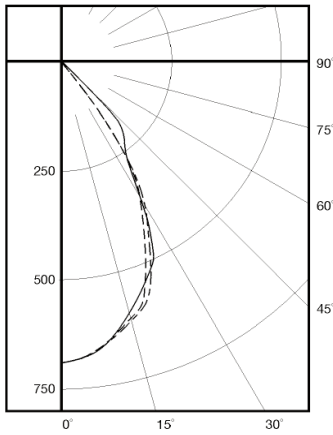


16SSPL, 16SSDL,  
16WPL and 16WDL

\* Consult factory for availability.

# 6" Square LED Downlight – High CRI

## PHOTOMETRIC DATA



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

### CANDLEPOWER SUMMARY

Angle	0°	45°	90°
0°	689	689	689
10°	645	646	650
20°	556	547	574
30°	372	361	381
40°	12	221	39
50°	3	4	3
60°	1	1	1
70°	0	0	0
80°	0	0	0
90°	0	0	0

### ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0° - 30°	450	70.2
0° - 40°	610	95.0
0° - 60°	641	99.8
0° - 90°	642	100.0

### Notes

1. Source: Independent Testing Laboratories Test Report 57889.
2. Photometric test performed with Nichia NS6L083-D1P14M 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](http://www.galliumlighting.com).

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

Angle	0°	45°	90°
45°	249	9075	311
55°	77	153	153
65°	104	104	104
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>
35-930H	3500K	3200K-3800K	92	51	930	42	642	25
40-930H	4000K	3800K-4600K	92	51	930	42	642	25

1. Minimum initial lumens @ 350mA per Nichia.
2. Minimum initial lumens divided by LED input wattage.
3. Based on actual measured output of test luminaire (ITL test report 57889). Fixtures equipped with emergency battery packs operate 3 LEDs at 200mA for 90 minutes in emergency mode, so apply an additional

multiplier of 0.10. Use 0.90 multiplier for prismatic lens trims and 0.80 multiplier for diffuse lens trims.

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.

## ELECTRICAL DATA

Driver	Description	LED Drive Current	Input Frequency	Input Current	Input Power <sup>1</sup>	Total Harmonic Distortion	Power Factor
120	120V	350mA	60Hz	0.24A	26W	<20%	>0.90
277	277V	350mA	60Hz	0.09A	26W	<20%	>0.90
120D <sup>2</sup>	120V Dimming	350mA	60Hz	0.24A	26W	<20%	>0.90
277D <sup>3</sup>	277V Dimming	350mA	60Hz	0.09A	26W	<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.