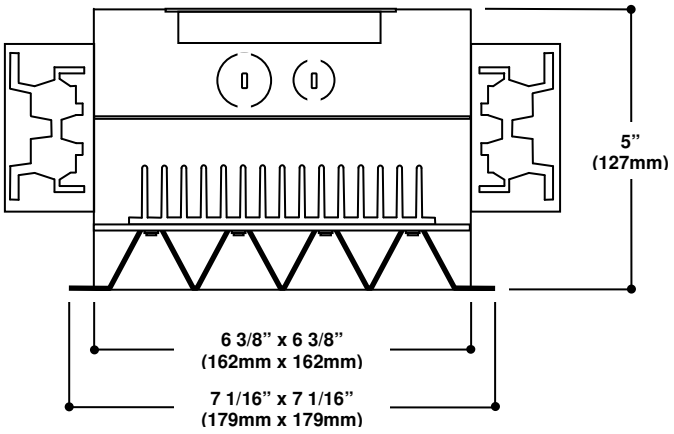
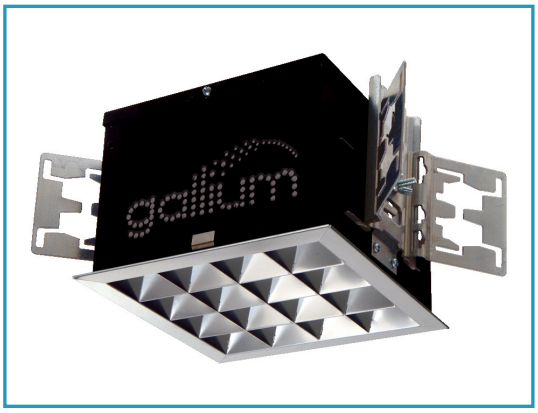
6” Square LED Downlight – High CRI

FEATURES

- The Gallium GS6-NS6 features sixteen Nichia Power LEDs with a color rendering index of 92 and a 40,000 hour service life, equating to 20 years when operated during normal business hours.
- 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 LED 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, and operate 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 45° shielding angle.
- The fixture is UL listed for indoor applications, 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 assembled in USA. 5-year limited warranty.





APPLICATIONS

Suitable for commercial applications (such as private offices, conference rooms, circulation spaces, lobbies 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	Current		LEDs		LED Type		Mounting
G	S	6	H	-	MV __	350	-	16	-	NS6x083- _ _ -930H	-	__ MB

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

NS6x083-35-930H=3500K, 930 lumens, 92 CRI
NS6x083-40-930H=4000K, 930 lumens, 92 CRI

CMB= Commercial Mounting Bars
RMB= Residential Mounting Bars

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 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
16WPL=16 cell white reflector with prismatic lens
16WDL=16 cell white reflector with diffuse lens

1=Overlap flange

16SSPL, 16SSDL, 16WPL and 16WDL

PL and DL

Accessories

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

GS6-NS6

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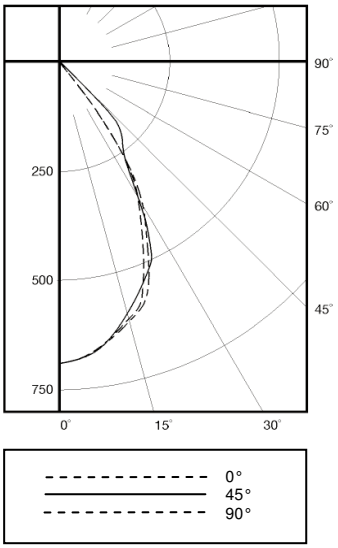
PHOTOMETRIC DATA



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

LUMINANCE DATA (cd/m^2)

Angle	0°	45°	90°
45°	249	9075	311
55°	77	153	153
65°	104	104	104
75°	0	0	0
85°	0	0	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.

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]
35-930H	3500K	92	58	930	42	642	25	100%
40-930H	4000K	92	58	930	42	642	25	100%

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). Other LED options prorated using Nichia’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 57889 provided above.

ELECTRICAL DATA

LED Type	Input Current 120V	Input Current 277V	Input Power*	Total Harmonic Distortion	Power Factor
NS6x083	0.24A	0.09A	25.5W	<20%	>0.90

* Input power at full brightness.

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

Consult factory for availability of dimming drivers compatible with 0-10VDC dimming systems.

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