

PHILIPS OPTIMUM

Industrial

High bay G16L

8000, 12000, 20000,
and 24000 lm



Project: _____
 Location: _____
 Cat.No: _____
 Type: _____
 Lamps: _____ Qty: _____
 Notes: _____

Philips Optimum LED high bay G16L is a highly efficient, 16" wide luminaire that provides exceptional light distribution for general areas. Designed with low cost of ownership in mind, the G16L is an economical full body luminaire that takes advantage of high efficiency, long life LED technology. The hinged LED tray pivots down with a quick release, allowing for immediate access to all internal fixture components. This unique design adds the benefit of quicker, easier fixture maintenance.

Ordering guide

Example: G16L4FT24LUV850

Family ¹	Diffuser	Length	Lumens ²	Voltage	CRI/CCT	Hanging	Options
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox" value="UV"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
G16L Postpainted Body	blank none WD White Diffuser	2FT 2' 4FT 4'	2FT 08L 8,000 12L 12,000	UV 120-277V	835 80 CRI, 3500K 840 80 CRI, 4000K 850 80 CRI, 5000K	blank V-Chain Hangers JB Slide-On Junction Box PS Pendant Stabilizer QC Quick Hang Cable (10') QC() Quick Hang Cable (Specify Length) SPSH 12" Stem/PS/Hook SPST 12" Stem/PS/Toggle	C6 6' Single Circuit Cord CC() Single Circuit Cord (Specify Length) TL6(L5-15P) 6' Cord with Twist Lock Plug (120V) TL6(L7-15P) 6' Cord with Twist Lock Plug (277V) BSL310 10W Emergency Pack BSL20 20W Emergency Pack F Inline Fuse SC 10' Safety Cable WG Wire Guard (Unpainted) WWG White Wire Guard OS Occupancy Sensor (On/Off) OS(480V) 480V Occupancy Sensor (On/Off) OS(DIM) Occupancy Sensor (On/Off/Dim/Photocell) OS(LSXRHVOLT) 347V/480V Occupancy Sensor (On/Off/Dim/Photocell) OS(FSP,DIM) Programmable Occupancy Sensor (On/Off/Dim/Photocell) ³ SDT(480V) 480V-277V Step Down Transformer SDT(347V) 347V-277V Step Down Transformer (OSB) Owner Supplied Back Box

Footnotes

- Some G10L(P) luminaires are DesignLights Consortium® qualified. Please see the DLC QPL list for exact catalog numbers. (www.designlights.org/QPL)
- Nominal delivered lumens.
- Initial sensor setup and subsequent adjustments are made using FSIR-100 handheld configuration tool, sold separately.

General Notes

- Many luminaire components, such as reflectors, refractors, lenses, sockets, lampholders, and LEDs are made from various types of plastics which can be adversely affected by airborne contaminants. If sulfur based chemicals, petroleum based products, cleaning solutions, or other contaminants are expected in the intended area of use, consult factory for compatibility.

Accessories (order separately)

- FSIR-100** – Handheld remote configuration tool for FSP-211



G16L LED high bay

8000, 12000, 20000 or 24000 lumens

Applications

- General Areas
- Open construction retail
- Gymnasiums (with Wire Guard)

Features

- 0-10V dimming drivers standard on all models
- Hinged LED tray pivots down for easy access to internal fixture components.
- Future proof design: LED light engines and drivers are field replaceable and can be upgraded when newer, more efficient technology becomes available.

Mounting Methods

- G16L fixtures offer flexible mounting methods that most commonly include: standard V-chain hangers and Y-style quick hang cable kit. There are several other mounting options available that can be seen in the ordering guide.

Product Construction

- The G16L fixture body is brake formed from heavy gauge cold rolled steel. Ends are permanently riveted together for strength and rigidity. The LED assembly is precision brake formed from aluminum. This one piece heat conducting assembly, along with the fixture's arc bottom, provide an exceptional means of heat dissipation, allowing for higher lumen output and increased LED system life. The housing and LED tray are painted with a highly durable, highly reflective, white powder-coat finish.

Predicted L70 Lifetime

- 60,000hrs @ 25°C Ambient (based on LM-80 and TM-21 data).

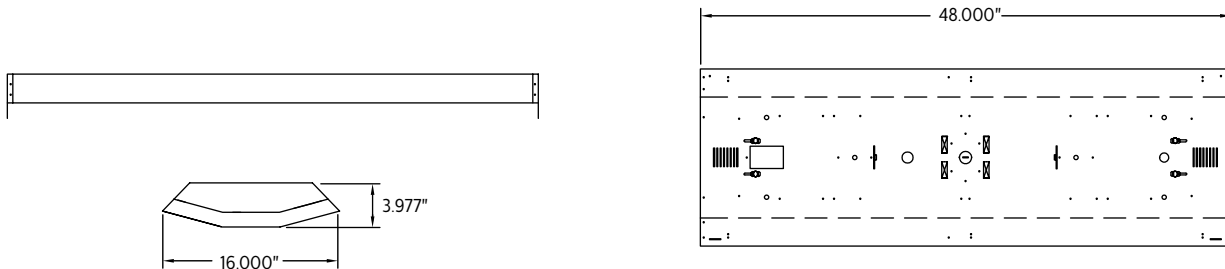
Listings

- cETLus listed to UL standards, suitable for damp locations.
- Some G16L(P) luminaires are DesignLights Consortium® qualified. Please see the DLC QPL list for exact catalog numbers. (www.designlights.org/QPL)

Warranty

- 5-year limited system warranty. See www.philips.com/optimum for warranty details.

Dimensions



Performance Data

Catalog No.	Wattage	Lumens	LPW
G16L(P) 4FT 20L UV 835	167.9	20,803	123.9
G16L(P) 4FT 20L UV 840*	173	21,405	123.7
G16L(P) 4FT 20L UV 850*	173	21,619	124.9
G16L(P) 4FT 24L UV 835	208.6	23,689	113.6
G16L(P) 4FT 24L UV 840*	215	24,376	113.4
G16L(P) 4FT 24L UV 850	205.7	24,857	120.8

* Scaled data

G16L LED high bay

8000, 12000, 20000 or 24000 lumens

Photometry

G16L LED high bay LED, 20000 nominal delivered lumens

LER – 124

Catalog No.	G16LP4FT20LUV8350S	Candlepower				Light Distribution			Average Luminance			
		Angle	End	45°	Cross	Degrees	Lumens	% Luminaire	Angle	End	45°	Cross
Test No.	35523	0	6886	6886	6886	0-30	5440	26.2	45	14141	14098	14023
S/MH	1.3	5	6838	6865	6909	0-40	8989	43.2	55	13823	13752	13647
Lamp Type	LED	15	6661	6692	6715	0-60	16159	77.7	65	12869	12949	12972
Lumens	20803	25	6279	6283	6315	0-90	20802	100.0	75	10357	11389	12189
Input Watts	168	35	5675	5676	5670	0-180	20803	100.0	85	4587	11320	15174
Comparative yearly lighting energy cost per 1000 lumens – \$1.94 based on 3000 hrs. and \$.08 pwr KWH.		45	4868	4853	4827							
The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.		55	3860	3840	3811							
Photometric values based on test performed in compliance with LM-79.		65	2648	2664	2669							
		75	1305	1435	1536							
		85	195	480	644							

G16L LED high bay LED, 24000 nominal delivered lumens

LER – 114

Catalog No.	G16LP4FT25LUV8350S	Candlepower				Light Distribution			Average Luminance			
		Angle	End	45°	Cross	Degrees	Lumens	% Luminaire	Angle	End	45°	Cross
Test No.	35547	0	7879	7879	7879	0-30	6224	26.3	45	16207	16077	15999
S/MH	1.3	5	7833	7860	7891	0-40	10281	43.4	55	15815	15603	15494
Lamp Type	LED	15	7630	7660	7665	0-60	18450	77.9	65	14655	14615	14634
Lumens	23689	25	7194	7190	7196	0-90	23682	100.0	75	11736	12876	13779
Input Watts	209	35	6499	6488	6481	0-180	23689	100.0	85	5378	12609	17446
Comparative yearly lighting energy cost per 1000 lumens – \$2.11 based on 3000 hrs. and \$.08 pwr KWH.		45	5579	5534	5507							
The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.		55	4416	4357	4326							
Photometric values based on test performed in compliance with LM-79.		65	3015	3007	3011							
		75	1479	1622	1736							
		85	228	535	740							

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