Day-Brite CFI by Signify

Industrial

High bay G10L LED

8000, 12000, 16000, 20000, or 24000 lumens

Project:

Location:

Cat.No:

Type:

Lamps: Qty:

Notes:

Day-Brite / CFI LED high bay G10L is a high efficiency, 10" wide luminaire that provides exceptional light distribution for general areas. Designed with low cost of ownership in mind, the G10L is an economical full body fixture 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: G10L4FT16LUV850

Family[1]	Diffuser	Length	Lumens[2]	Voltage	CRI/CCT	Hanging	Options
		4FT		UV			
G10L Postpainted Body	**blank** none	**4FT** 4'	**08L** 8,000	**UV** 120-277V	**835** 80 CRI, 3500K	**blank** V-Chain Hangers	**C6** 6' Single Circuit Cord
G10LP Economical Prepainted Body	**WD**[4] White Diffuser		**12L** 12,000		**840** 80 CRI, 4000K	**JB** Slide-On Junction Box	**CS3** 6' Cord and Plug for DEMO Kits
	CL[4] Clear Diffuser		**16L** 16,000		**850** 80 CRI, 5000K	**PS** Pendant Stabilizer	**C( )** Single Circuit Cord (Specify Length)
			20L 20,000			**QC** Quick Hang Cable (10')	**TL6(L5-15P)** 6' Cord with Twist Lock Plug (120V)
			24L 24,000			**QC( )** Quick Hang Cable (Specify Length)	**TL6(L7-15P)** 6' Cord with Twist Lock Plug (277V)
						SPSH 12" Stem/PS/Hook	**BSL310** 10W Emergency Pack
						SPST 12" Stem/PS/Toggle	**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

1. Some G10L(P) luminaires are DesignLights Consortium® qualified. Please see the DLC 4.0 QPL list for exact catalog numbers. (www.designlights.org/QPL)
2. Nominal delivered lumens.
3. Initial sensor setup and subsequent adjustments are made using FSIR-100 handheld configuration tool, sold separately. Lens field installable.
4. WD/CL versions only available up to 16L package. Consult factory for 20/24L availability.

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

G10L LED high bay

8000, 12000, 16000, 20000, 24000 lumens

Applications

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

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

- G10L 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 G10L 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 @ 40°C Ambient (based on LM-80 and TM-21 data) for 24L package.*

  * Lower lumen packages and different operating temperatures may have higher L70. consult factory for data

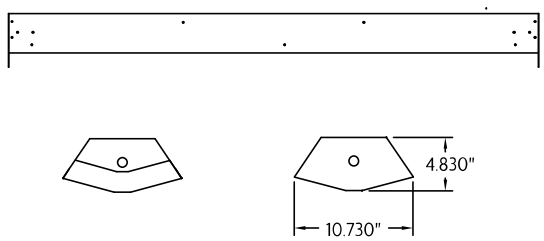
Listings

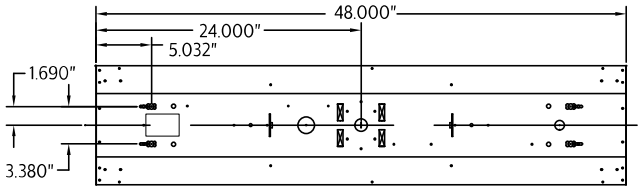
- cETLus listed to UL standards, suitable for damp locations and 40°C ambient.

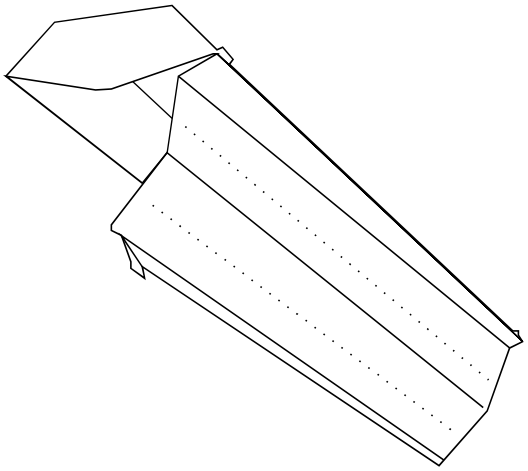
Warranty

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

Dimensions







G10L LED high bay

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Performance Data*

Catalog No.	Lumens	Watts	Efficacy	Test No.
G10L(P)4FT08LUV840 [OS, OS(DIM), OS(FSP,DIM)]	8841	57.6	153.5	F37290
G10L(P)4FT08LUV850 [OS, OS(DIM), OS(FSP,DIM)]	8929	57.6	155.0	*
G10L(P)4FT12LUV840 [OS, OS(DIM), OS(FSP,DIM)]	13308	89	149.5	F37182
G10L(P)4FT12LUV850 [OS, OS(DIM), OS(FSP,DIM)]	13441	89	151.0	*
G10L(P)4FT16LUV840 [OS, OS(DIM), OS(FSP,DIM)]	16485	120	137.4	F37183
G10L(P)4FT16LUV850 [OS, OS(DIM), OS(FSP,DIM)]	16234	120.2	135.1	F37184
G10L(P)4FT20LUV840 [OS, OS(DIM), OS(FSP,DIM)]	19446	135.4	143.6	F37040
G10L(P)4FT20LUV850 [OS, OS(DIM), OS(FSP,DIM)]	19640	135.4	145.1	*
G10L(P)4FT24LUV840 [OS, OS(DIM), OS(FSP,DIM)]	23963	172.3	139.1	F37257
G10L(P)4FT24LUV850 [OS, OS(DIM), OS(FSP,DIM)]	24203	172.3	140.5	*
G10L(P)4FT WD 12LUV840 [OS, OS(DIM), OS(FSP,DIM)]	10235	88.9	115.1	*
G10L(P)4FT WD 12LUV850 [OS, OS(DIM), OS(FSP,DIM)]	10338	88.9	116.3	F37185
G10L(P)4FT24LUV850 [OS, OS(DIM), OS(FSP,DIM), SDT(480V), SDT(347V)]	23989	181.7	132.0	FO37355
G10L(P)4FT WD 16LUV840 [OS, OS(DIM), OS(FSP,DIM)]	12000	117.4	102.2	FO37356
G10L(P)4FT WD 16LUV850 [OS, OS(DIM), OS(FSP,DIM)]	12120	117.4	103.2	*

* Scaled data

Photometry

G10L LED high bay LED, 16000 nominal delivered lumens — LER - 139.08

Catalog No. G10L4FT16LUV840*OS
Test No. 37183
S/MH 1.3
Lamp Type LED
Lumens 16484.9
Input Watts 120

Comparative yearly lighting energy cost per 1000 lumens – **$1.73** based on 3000 hrs. and $.08 pwr KWH.

The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Photometric values based on test performed in compliance with LM-79.

Candlepower

Angle	End	45	Cross	Back-45
0	5761	5761	5761	5761
5	5686	5723	5742	5723
15	5171	5170	5173	5170
25	4887	4837	4849	4837
35	4438	4361	4344	4361
45	3838	3763	3721	3763
55	3076	2989	2956	2989
65	2127	2117	2164	2117
75	1050	1315	1495	1315
85	152	476	353	476

Light Distribution

Degrees	Lumens	% Luminaire
0-30	4258	25.83
0-40	6994	42.43
0-60	12564	76.22
0-90	16477	99.95
0-180	16484	100

Average Luminance

Zone	End	45°	Cross
45	16776	16448	16264
55	16574	16106	15930
65	15559	15485	15825
75	12539	15702	17859
85	5403	16902	12523

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)

pfc =	20							
Ceil	80			70			50	
Wall	70	50	30	70	50	30	50	30
RCR								
0	119	119	119	116	116	116	111	111
1	108	103	99	105	101	97	96	93
2	98	89	82	95	87	81	84	78
3	89	78	70	87	77	69	73	67
4	81	69	60	79	68	59	65	58
5	75	62	52	73	60	52	58	51
6	69	55	46	67	54	46	53	45
7	64	50	41	62	49	41	48	40
8	59	46	37	58	45	37	44	36
9	56	42	34	54	41	33	40	33
10	52	39	31	51	38	30	37	30

G10L LED high bay LED, 24000 nominal delivered lumens — LER - 139.08

Catalog No. G10L4FT24LUV840*OS
Test No. 37257
S/MH 1.3
Lamp Type LED
Lumens 23962.9
Input Watts 172.3

Comparative yearly lighting energy cost per 1000 lumens – **$1.73** based on 3000 hrs. and $.08 pwr KWH.

The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Photometric values based on test performed in compliance with LM-79.

Candlepower

Angle	End	45	Cross	Back-45
0	8017	8017	8017	8017
5	7916	7971	8023	7971
15	7728	7713	7721	7713
25	7321	7243	7233	7243
35	6674	6563	6510	6563
45	5794	5496	5421	5496
55	4358	4226	4175	4226
65	3033	2997	3062	2997
75	1498	1856	2118	1856
85	219	630	498	630

Light Distribution

Degrees	Lumens	% Luminaire
0-30	6286	26.2
0-40	10397	43.4
0-60	18434	76.9
0-90	23955	100
0-180	23964	100

Average Luminance

Zone	End	45°	Cross
45	25346	24042	23712
55	23499	22790	22515
65	22197	21935	22411
75	17907	22181	25307
85	7783	22369	17684

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)

pfc =	20							
Ceil	80			70			50	
Wall	70	50	30	70	50	30	50	30
RCR								
0	118	118	118	115	115	115	111	111
1	108	103	98	105	101	96	96	93
2	97	90	82	94	88	81	83	79
3	89	78	69	86	77	68	73	67
4	81	68	59	79	68	59	65	57
5	75	61	53	72	60	52	58	51
6	68	56	46	67	55	46	53	45
7	64	50	41	61	50	40	47	40
8	59	46	36	57	45	36	44	35
9	56	41	34	54	41	34	40	33
10	52	39	30	51	38	30	36	29

G10L LED high bay

8000, 12000, 16000, 20000, 24000 lumens

Photometry

G10L LED high bay LED, 20000 nominal delivered lumens — LER - 143.62

Catalog No.	G10L4FT20LUV840OS
Test No.	37040
S/MH	1.2
Lamp Type	LED
Lumens	19445.7
Input Watts	135

Comparative yearly lighting energy cost per 1000 lumens – **$1.67** based on 3000 hrs. and $.08 pwr KWH.

The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Photometric values based on test performed in compliance with LM-79.

Candlepower

Angle	End	45	Cross	Back-45
0	6667	6667	6667	6667
5	6580	6631	6660	6631
15	6412	6410	6405	6410
25	6049	5988	5997	5988
35	5125	5035	5189	5035
45	4435	4347	4293	4347
55	3558	3454	3426	3454
65	2462	2461	2527	2461
75	1225	1548	1757	1548
85	185	552	490	552

Light Distribution

Degrees	Lumens	% Luminaire
0-30	5204	26.8
0-40	8418	43.3
0-60	14863	76.4
0-90	19437	100
0-180	19445	100

Average Luminance

Zone	End	45°	Cross
45	19399	19017	18780
55	19189	18627	18474
65	18018	18009	18492
75	14640	18501	20994
85	6562	19590	17379

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)

pfc =	20							
Ceil	80			70			50	
Wall	70	50	30	70	50	30	50	30
RCR								
0	118	118	118	115	115	115	111	111
1	108	103	98	105	101	96	95	93
2	97	89	81	94	86	81	83	78
3	89	78	69	86	77	68	73	67
4	81	68	59	79	68	58	65	57
5	75	61	53	72	60	52	58	51
6	68	56	46	67	55	46	53	45
7	64	50	41	61	50	40	47	40
8	59	46	36	57	45	36	44	35
9	56	41	34	54	41	34	40	33
10	52	39	30	51	38	30	36	29

G10L LED high bay LED, 12000 nominal delivered lumens — LER - 149.53

Catalog No.	G10L4FT12LUV840OS
Test No.	37182
S/MH	1.3
Lamp Type	LED
Lumens	13308.2
Input Watts	89

Comparative yearly lighting energy cost per 1000 lumens – **$1.60** based on 3000 hrs. and $.08 pwr KWH.

The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Photometric values based on test performed in compliance with LM-79.

Candlepower

Angle	End	45	Cross	Back-45
0	4362	4362	4362	4362
5	4303	4329	4355	4329
15	4195	4189	4195	4189
25	3960	3917	3926	3917
35	3598	3533	3523	3533
45	3111	3051	3019	3051
55	2492	2424	2396	2424
65	1725	1715	1758	1715
75	853	1061	1213	1061
85	117	361	277	361

Light Distribution

Degrees	Lumens	% Luminaire
0-30	3408	25.6
0-40	5626	42.3
0-60	10147	76.2
0-90	13304	100
0-180	13309	100

Average Luminance

Zone	End	45°	Cross
45	13607	13345	13208
55	13437	13073	12922
65	12622	12554	12868
75	10190	12677	14500
85	4159	12808	9830

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)

pfc =	20							
Ceil	80			70			50	
Wall	70	50	30	70	50	30	50	30
RCR								
0	118	118	118	115	115	115	111	111
1	108	103	97	105	101	96	95	93
2	97	89	81	94	86	81	83	78
3	89	78	69	85	76	68	72	67
4	81	68	59	79	68	58	65	57
5	75	60	52	71	59	52	57	50
6	68	55	46	67	54	46	52	45
7	64	50	40	61	48	40	47	40
8	58	46	36	57	45	36	42	35
9	55	41	33	54	40	33	40	33
10	52	38	29	51	38	29	36	29

G10L LED high bay

8000, 12000, 16000, 20000, 24000 lumens

Photometry

G10L LED high bay LED, 8000 nominal delivered lumens — **LER - 153.48**

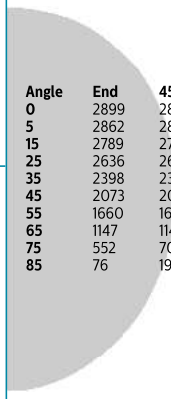
Catalog No.	G10L(P)4FT 08L UV840 OS DIM
Test No.	37290
S/MH	1.3
Lamp Type	LED
Lumens	8840.5
Input Watts	58

Comparative yearly lighting energy cost per 1000 lumens – **$1.56** based on 3000 hrs. and $.08 pwr KWH.

The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Photometric values based on test performed in compliance with LM-79.

Candlepower



Angle	End	45	Cross	Back-45
0	2899	2899	2899	2899
5	2862	2889	2900	2889
15	2789	2790	2792	2790
25	2636	2616	2619	2616
35	2398	2362	2361	2362
45	2073	2041	2022	2041
55	1660	1619	1608	1619
65	1147	1144	1174	1144
75	552	706	810	706
85	76	190	150	190

Light Distribution

Degrees	Lumens	% Luminaire
0-30	2272	25.7
0-40	3754	42.5
0-60	6776	76.6
0-90	8840	100
0-180	8842	100

Average Luminance

Zone	End	45°	Cross
45	9066	8928	8845
55	8953	8728	8673
65	8391	8373	8590
75	6592	8432	9677
85	2679	6725	5323

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)								
pfc =	**20**							
Ceil	**80**			**70**			**50**	
Wall	**70**	**50**	**30**	**70**	**50**	**30**	**50**	**30**
RCR								
0	119	119	119	116	119	119	119	119
1	108	103	99	105	101	96	96	93
2	98	89	82	94	88	81	83	78
3	89	78	70	86	77	68	73	67
4	81	69	60	79	68	58	65	57
5	75	62	52	72	59	52	57	51
6	69	55	46	67	54	46	52	45
7	64	50	41	61	48	40	47	40
8	59	46	37	57	45	36	44	35
9	56	42	34	54	40	33	40	33
10	52	39	31	51	38	29	36	29

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