

Day-Brite CFI

by  Signify

Industrial

High bay HGXL

8000, 12000, or 16000 lm



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

Day-Brite / CFI LED high bay HGXL is a high efficiency lay-in style luminaire that provides exceptional light distribution for general areas. Available with high lumen output packages, the HGXL is perfect for higher mounting heights, or for applications where higher light levels are needed. The HGXL can replace up to a 400W Metal Halide system.

Ordering guide

Example: HGXLD232212LUV840

Family ¹	Lens	Size	Lumens ²	Voltage	CRI/CCT	Options
HGXL		22		UV		
HGXL	D12 Standard Prismatic Lens D23 High Efficiency Pattern 23 Lens D23HTW High Transmission White Pattern 23 Lens DL1 0.118" Clear Lexan Lens DL2 0.220" Clear Lexan Lens CAL1 0.118" Clear Acrylic Lens DL1/D23HTW Combo Lens DL2/D23HTW Combo Lens	22 2' x 2'	08L 8,000 12L 12,000 16L 16,000	UV 120-277V	835 80 CRI, 3500K 840 80 CRI, 4000K 850 80 CRI, 5000K	W6 6' Metal Clad Cord/Flexible Conduit W() Metal Clad Cord/Flexible Conduit (Specify Length) BSL310 10W Emergency Pack BSL20 20W Emergency Pack F Inline Fuse SDT(480V) 480V-277V Step Down Transformer SDT(347V) 347V-277V Step Down Transformer

Footnotes

- ¹ Some HGXL luminaires are DesignLights Consortium® qualified. Please see the DLC QPL list for exact catalog numbers. (www.designlights.org/QPL)
- ² Nominal delivered lumens

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.



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Applications

- Office
- Retail
- Education
- Industrial

Product Construction

• The HGXL's fixture housing is brake formed from heavy gauge cold rolled steel. Ends and mounting plates 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 venting incorporated into the housing, allows for exceptional heat dissipation, increasing lumen output and extending the life of the system.

Predicted L70 Lifetime

- 70,000hrs @ 25°C Ambient (based on LM-80 and TM-21 data).

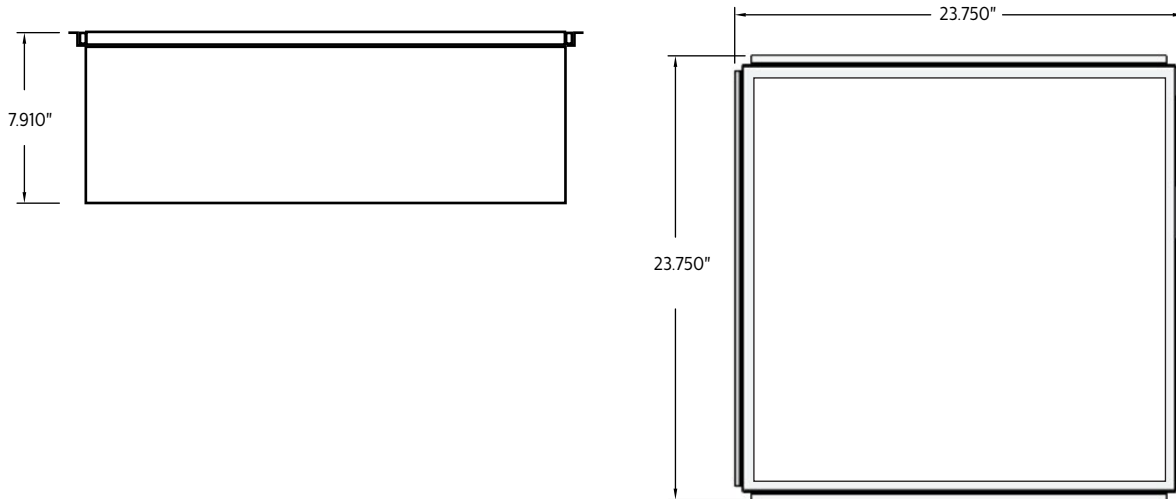
Listings

- cETLus listed to UL standards, suitable for damp locations.
- Some HGXL 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



HGXL LED high bay, 16000 nominal delivered lumens, D23HTW lens

LER – 116

Catalog No.	HGXL D23HTW2216LUV840	Candlepower				Light Distribution			Average Luminance					
		Angle	End	45°	Cross	Degrees	Lumens	% Luminaire	Angle	End	45°	Cross		
Test No.	35792	0	6006	6006	6006	0-30	4580	31.8	45	15953	15691	15505		
S/MH	1.2	5	5981	5974	5977	0-40	7324	50.8	55	13753	13361	13058		
Lamp Type	LED	15	5733	5737	5753	0-60	12018	83.4	65	11472	11022	10675		
Lumens	14406	25	5199	5203	5218	0-90	14405	100.0	75	9431	9004	8711		
Input Watts	124	35	4411	4396	4385	90-180	1	0.0	85	7540	7151	6982		
		45	3433	3377	3337	0-180	14406	100.0						
		55	2401	2332	2280									
		65	1476	1418	1373									
		75	743	709	686									
		85	200	190	185									
		95	0	0	0									
		105	0	0	0									
		115	0	0	0									
		125	0	0	0									
		135	0	0	0									
		145	0	0	0									
		155	0	0	0									
		165	0	0	0									
		175	0	0	0									
Comparative yearly lighting energy cost per 1000 lumens – \$2.07 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.														
						Coefficients of Utilization								
						EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)								
						pcc	80			70			50	
						pw	70	50	30	70	50	30	50	30
						RCR								
						0	118	118	118	115	115	115	111	111
						1	110	105	101	107	103	98	98	95
						2	100	93	85	97	91	84	86	81
						3	92	81	73	90	80	72	77	70
						4	84	72	65	81	71	64	68	63
						5	78	66	56	76	65	56	63	55
						6	71	58	51	69	58	50	56	50
						7	67	54	46	66	53	45	52	45
						8	63	50	40	60	48	40	47	40
						9	58	46	38	56	45	36	44	36
						10	55	41	34	54	41	34	40	34

HGXL LED high bay

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HGXL LED high bay, 16000 nominal delivered lumens, DL1 lens

LER – 114

Catalog No. HGXLDL12216LUV840 Test No. 35793 S/MH 1.3 Lamp Type LED Lumens 14191 Input Watts 124 Comparative yearly lighting energy cost per 1000 lumens – \$2.11 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				Light Distribution			Average Luminance									
	Angle	End	45°	Cross	Degrees	Lumens	% Luminaire	Angle	End	45°	Cross						
	0	5434	5434	5434	0-30	4223	29.8	45	16524	16636	17542						
	5	5377	5397	5408	0-40	6936	48.9	55	15374	15527	14008						
	15	5183	5191	5273	0-60	12080	85.1	65	13071	11093	11419						
	25	4806	4852	4963	0-90	14190	100.0	75	8579	6328	4145						
	35	4252	4334	4459	90-180	0	0.0	85	2171	1474	1316						
	45	3556	3580	3775	0-180	14191	100.0										
	55	2684	2711	2446	Coefficients of Utilization												
	65	1681	1427	1469	EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)												
	75	676	499	327	pcc	80			70			50					
	85	58	39	35	pw	70	50	30	70	50	30	50	30				
	95	0	0	0	RCR												
	105	0	0	0	0	118	118	118	115	115	115	111	111				
	115	0	0	0	1	110	106	102	107	103	100	98	95				
	125	0	0	0	2	101	93	86	97	91	84	88	82				
	135	0	0	0	3	92	81	75	90	81	73	78	71				
145	0	0	0	4	84	72	65	81	71	64	68	63					
155	0	0	0	5	78	65	56	76	64	56	61	55					
165	0	0	0	6	71	58	50	69	57	50	56	48					
175	0	0	0	7	67	54	45	65	53	45	51	44					
				8	61	48	40	60	47	40	46	40					
				9	57	45	36	56	44	36	42	35					
				10	54	40	34	53	40	33	40	33					

HGXL LED high bay, 16000 nominal delivered lumens, D23 lens

LER – 119

Catalog No. HGXLD232216LUV840 Test No. 35798 S/MH 1.3 Lamp Type LED Lumens 14789 Input Watts 125 Comparative yearly lighting energy cost per 1000 lumens – \$2.02 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				Light Distribution			Average Luminance									
	Angle	End	45°	Cross	Degrees	Lumens	% Luminaire	Angle	End	45°	Cross						
	0	6108	6108	6108	0-30	4829	32.7	45	18452	18502	18133						
	5	6095	6144	6099	0-40	7918	53.5	55	13332	13118	12535						
	15	5864	5978	6011	0-60	13001	87.9	65	8026	8076	8032						
	25	5470	5516	5676	0-90	14787	100.0	75	6581	5733	6214						
	35	4875	4951	5042	90-180	2	0.0	85	7475	6051	6179						
	45	3971	3982	3903	0-180	14789	100.0										
	55	2327	2290	2188	Coefficients of Utilization												
	65	1032	1039	1033	EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)												
	75	518	452	490	pcc	80			70			50					
	85	198	161	164	pw	70	50	30	70	50	30	50	30				
	95	0	0	0	RCR												
	105	0	0	0	0	118	118	118	115	115	115	111	111				
	115	0	0	0	1	110	106	102	107	104	100	100	96				
	125	0	0	0	2	101	93	88	98	92	86	89	83				
	135	0	0	0	3	93	83	76	91	81	75	79	72				
145	0	0	0	4	85	75	67	83	73	66	70	65					
155	0	0	0	5	79	67	58	77	66	58	64	56					
165	0	0	0	6	73	60	53	71	59	52	57	51					
175	0	0	0	7	68	56	46	67	55	46	53	46					
				8	64	51	42	61	50	42	48	41					
				9	59	46	39	57	46	39	45	38					
				10	56	42	35	55	42	34	41	34					

