

Project:	Catalogue #:	Type:
Notes:		

Product Description

Commercial-grade low bay - high bay featuring a single curved concave lens and optional sleek center spine. The LHBU provides high visual comfort for use with indoor applications where high-efficiency, high performance and ease of installation are required. The LHBU is an ideal solution for effortlessly replacing conventional architectural HID and fluorescent high bay systems in retail stores, event venues, galleries and more.

Applications

Schools, Retail Stores, Industrial, Showrooms

Features

- Standard low voltage dimming (0-10v, 10%)
- Curved reflector and end caps

Featured Options

- 10% Uplight slots
- Adjustable cable suspension
- Emergency lighting battery pack
- Motion sensor
- Flexible installation kit for surface, stem mounting and more.

Optical System

Frosted curved single-piece Polycarbonate diffuser. Optional curved lens with central formed peak available (see order key).

Mounting

This luminaire is specifically designed for suspended mount applications. A flexible mounting kit (ordered separately) is available for surface, stem, suspended applications with variable mounting points.

Construction

CNC fabricated, code gauge steel housing and ends.

Finish

White, polyester powder painted housing.

Electrical

Long life LEDs coupled with high efficiency drivers provide quality illumination. Rated to deliver L80 performance > 50,000 hours. Standard low voltage dimming (0-10v) driver.

Warranty

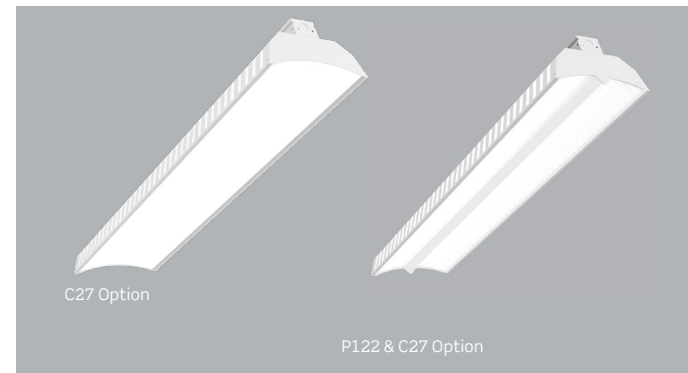
5 year limited warranty. For complete warranty, click here:



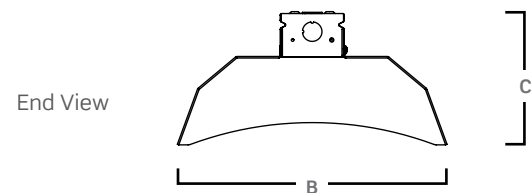
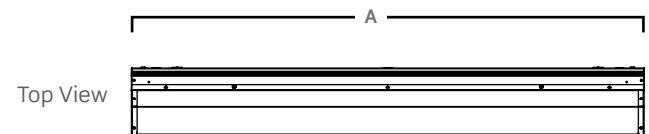
Approvals

- ETL listed
- Suitable for damp locations
- DesignLights Consortium®.

* Pending. All configurations may not be DLC qualified, Check www.designlights.org/QPL for qualified configurations.



Dimensions



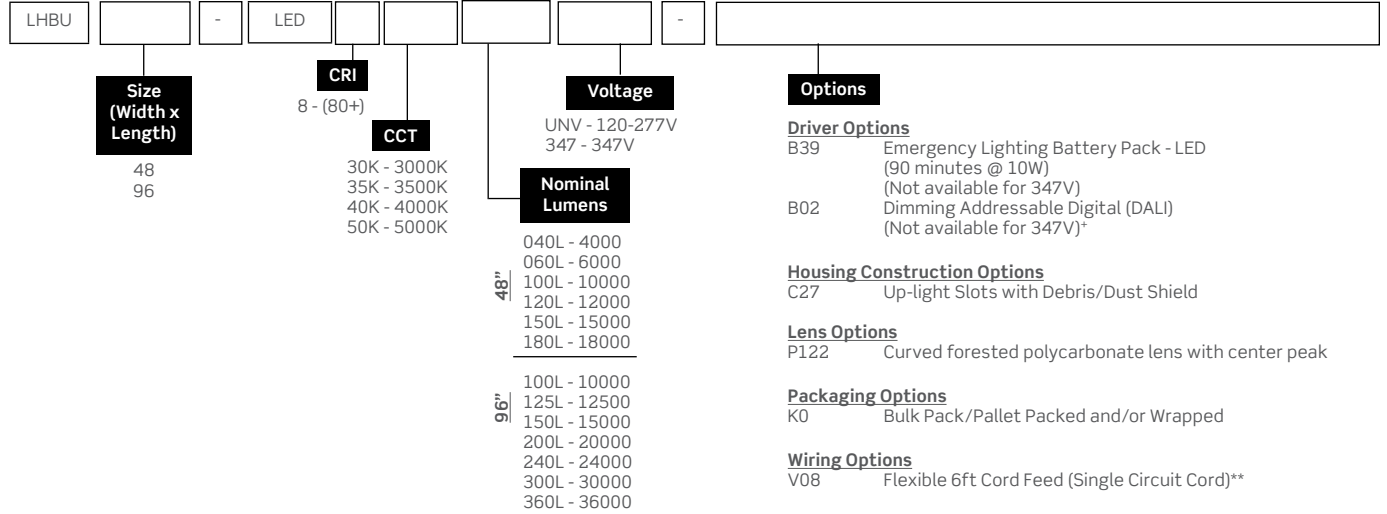
Size	A	B	C
48	45.06"	12.06"	5.983"
96	90.12"	12.06"	5.983"

Consult installation guide for exact dimensions.

Project:	Catalogue #:	Type:
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Order Key

EXAMPLE: LHBU48-LED840K040LUNV



* Consult factory for lead times and availability.
 ** For suspended and pendant mount applications only, not for use in surface mount applications

Other options may be available, consult factory. Specifications and data subject to change without notice.

Lifetime Expectancy

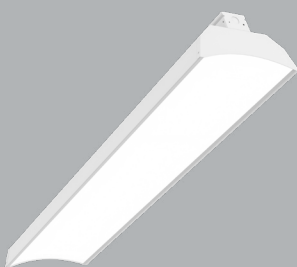
	Calculated Hours	Reported Hours
L70	≥ 205,000	> 60,000
L80	≥ 129,000	> 60,000
L90	≥ 61,000	> 60,000

Performance Scaling Factor

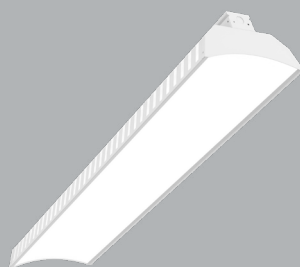
	50K	40K	35K	30K
80CRI	1.000	1.000	0.960	0.946
90CRI	0.875	0.875	0.836	0.809

Flexible Installation Kit (Ordered Separately)	
KIT00002	Speedy Hangers
KIT00003	Mounting Stems & Canopy Set 3/8"IP (2) 4ft.
KIT00004	Aircraft "Y" Cable (10ft) with Adjustable Grip (2)
KIT00021	Speedy Hangers with 48-in. Chain Set (2)
KIT00379	Flexible Installation Brackets (2)

Lens & Housing Construction Options



Standard LHBU



C27 Option



P122 Option



P122 & C27 Option

Project:	Catalogue #:	Type:
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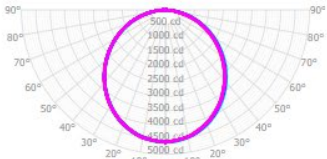
Performance Data

LED Performance Data										
Size	LHBU Standard and LHBU-P122				LHBU-C27 and LHBU-C27 & P-122				Max. Ambient (C)	
	Nominal Lumens	Delivered Lumens	Watts	Lumens Per Watt	Nominal Lumens	Delivered Lumens	Watts	Lumens Per Watt	Surface	Pendant
48	4000	3987	28.9	137.9	4000	4049	30.5	132.8	50	50
	6000	6593	49.2	134.1	6000	6632	51.2	129.5	50	50
	10000	10338	80.7	127.2	10000	10803	80.7	133.9	50	50
	12000	12977	99.8	127.1	12000	13265	102.4	129.5	50	50
	15000	15399	121.1	127.2	15000	16204	121.1	133.8	46	50
	18000	18908	153.6	123.1	18000	19897	153.6	129.5	33	38
96	10000	10602	77.9	136.1	10000	11157	77.9	143.2	50	50
	12500	13186	98.3	134.1	12500	13876	98.3	141.1	50	50
	15000	15726	119.1	132.1	15000	16549	119.1	139.0	50	50
	20000	20676	161.4	128.1	20000	21757	161.4	134.8	50	50
	24000	25954	199.6	130.0	24000	26781	204.6	130.9	50	50
	30000	30797	242.2	127.1	30000	31622	248.4	127.3	46	50
36000	37816	307.1	123.1	36000	38540	314.6	122.5	33	38	

Values based on 840K with standard lens at 25C

Photometrics

IES File: LHBU48-LED840K120LUNV
 Lumens: 15392
 Wattage: 101
 Efficacy: 128



Zonal Lumen Summary

Zone	Lumens	%Fixture
0.0° - 30.0°	3517	27.1%
0.0° - 40.0°	5730	44.2%
0.0° - 60.0°	10063	77.5%
0.0° - 90.0°	12868	99.2%

Average Luminance Table (cd/m²)
 CP Summary

	0.00°	45.00°	90.00°
0.00°	13131	13131	13131
45.00°	11634	11764	12044
55.00°	11045	11220	11564
65.00°	10311	10539	10887
75.00°	8654	9536	9766
85.00°	6542	6376	4976

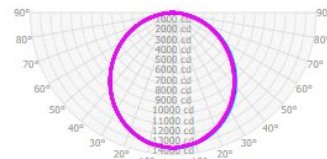
Coefficients of Utilization

Values are lumens delivered to the workplane from a single luminaire

pc	80%			70%			50%			30%			10%			0%		
	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%				
0	15423	15423	15423	15423	15051	15051	15051	15051	14358	14358	14358	13724	13724	13724	13141	13141	13141	12868
1	14063	13432	12866	12357	13696	13126	12611	12145	12552	12128	11740	12025	11680	11360	11539	11262	11003	10722
2	12771	11687	10791	10038	12417	11431	10607	9909	10950	10257	9659	10507	9929	9421	10097	9619	9194	8905
3	11635	10252	9182	8330	11302	10037	9046	8247	9633	8784	8085	9259	8536	7929	8911	8301	7778	7487
4	10649	9078	7928	7049	10339	8897	7823	6993	8555	7622	6883	8238	7431	6777	7943	7248	6673	6385
5	9790	8108	6933	6065	9507	7955	6851	6026	7666	6694	5948	7396	6543	5873	7145	6398	5799	5517
6	9041	7299	6130	5292	8784	7170	6066	5263	6923	5940	5206	6693	5819	5151	6478	5703	5097	4824
7	8384	6618	5474	4672	8151	6507	5421	4650	6297	5319	4608	6099	5221	4566	5914	5126	4525	4263
8	7805	6040	4929	4166	7594	5944	4886	4150	5763	4803	4117	5593	4722	4085	5433	4643	4053	3802
9	7293	5544	4472	3748	7102	5462	4437	3735	5305	4367	3710	5157	4300	3684	5018	4234	3659	3419
10	6838	5116	4085	3398	6665	5044	4055	3388	4908	3996	3367	4779	3940	3347	4657	3884	3327	3097

Effective Floor Cavity Reflectance: 20%

IES File: LHBU96-LED840K360LUNV
 Lumens: 30784
 Wattage: 311
 Efficacy: 122



Zonal Lumen Summary

Zone	Lumens	%Fixture
0.0° - 30.0°	10248	27.1%
0.0° - 40.0°	16698	44.2%
0.0° - 60.0°	29325	77.5%
0.0° - 90.0°	37498	99.2%

Average Luminance Table (cd/m²)
 CP Summary

	0.00°	45.00°	90.00°
0.00°	19159	19159	19159
45.00°	16974	17163	17573
55.00°	16114	16370	16872
65.00°	15044	15377	15884
75.00°	12626	13913	14249
85.00°	9545	9303	7260

Coefficients of Utilization

Values are lumens delivered to the workplane from a single luminaire

pc	80%			70%			50%			30%			10%			0%		
	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%				
0	44943	44943	44943	44943	43861	43861	43861	43861	41841	41841	41841	39993	39993	39993	38295	38295	38295	37497
1	40981	39142	37494	36010	39912	38249	36750	35391	36578	35343	34212	35042	34037	33105	33627	32820	32065	31246
2	37218	34057	31446	29252	36185	33312	30911	28875	31911	29891	28148	30619	28933	27454	29424	28032	26792	25949
3	33907	29876	26758	24274	32934	29250	26360	24031	28071	25597	23560	26981	24874	23105	25968	24189	22665	21817
4	31032	26454	23102	20542	30130	25927	22798	20379	24931	22212	20059	24007	21654	19748	23147	21121	19445	18606
5	28531	23628	20203	17675	27705	23182	19965	17560	22339	19506	17334	21553	19066	17113	20820	18645	16898	16079
6	26346	21271	17865	15420	25596	20893	17676	15337	20175	17309	15172	19504	16957	15011	18877	16618	14852	14059
7	24431	19287	15951	13613	23752	18964	15798	13551	18349	15501	13427	17774	15215	13305	17224	14939	13186	12423
8	22744	17600	14364	12141	22130	17323	14239	12093	16794	13995	11997	16298	13759	11903	15831	13531	11811	11079
9	21252	16155	13033	10923	20696	15916	12929	10885	15458	12726	10810	15028	12530	10736	14622	12339	10663	9963
10	19926	14907	11903	9904	19423	14699	11816	9873	14301	11646	9813	13926	11480	9753	13571	11320	9694	9026

Effective Floor Cavity Reflectance: 20%