

DESCRIPTION

The LHB Series LED is a Low Bay/High Bay luminaire designed for a wide variety of applications and mounting heights. The traditional linear form factor is available in four lumen packages of 12,000, 18,000, 24,000 and 36,000 lumens. The LHB is an energy-efficient one-for-one replacement of linear fluorescent and HID fixtures and is an ideal solution for industrial, manufacturing, gymnasium⁽¹⁾ and warehouse applications.

Catalog #		Type	
Project		Date	
Comments			
Prepared by			

SPECIFICATION FEATURES

Construction

Full body construction with center driver housing for added durability and thermal control.

Electrical

Long-life LED system coupled with electrical driver to deliver optimal performance. LED's available in 4000K and 5000K with a CRI ≥ 80. cULus listed. Electronic drivers are available for 120-277V applications. Standard 0-10V dimming.

Finish

Standard white polyester powder coat finish painted after fabrication for increased durability and rust inhibition.

Optics

Diffused lens provides added protection and glare control.

Mounting

The LHB series is ideally suited for suspension mounting with wire hook and chain set included.

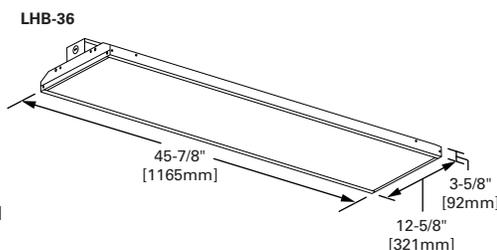
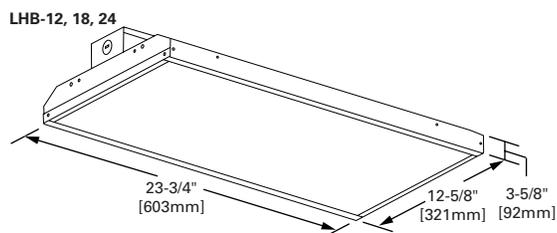
Compliance

Luminaires are cULus listed for damp locations -20°C - 40°C ambient environments with 0-10V drivers. LED modules comply with IESNA LM-79 and LM-80 standards. DesignLights Consortium® Qualified and classified for DLC Premium, refer to www.designlights.org for details.



**LHB
LED**

LED Linear High Bay
Lensed



ORDERING INFORMATION

SAMPLE NUMBER: LHB-18-UNV-L840-CD-U Includes V Hangers and (2) 18" pieces of chain for rapid installation

Series ⁽³⁾ LHB=LED High Bay	Lensing [Blank]=with Diffused Lens	Voltage UNV=Universal Voltage 120-277	Packaging U=Unit Pack
LED Lumen Output 12=12,000 Lumens 18=18,000 Lumens 24=24,000 Lumens 36=36,000 Lumens	CCT L840=4000K L850=5000K	Accessories (order separately) LHB-WG23=Wire Guard Kit for 12,000, 18,000 and 24,000 lumen units LHB-WG45=Wire Guard Kit for 36,000 lumen units LHB-SMK=Surface Mount Kit LHB-PMK=Pendant Mount Kit EBPLED7W=7 Watt emergency ballast pack - field installed EBPLED14W=14 Watt emergency ballast pack - field installed OEF-P-2MHO-MV-SL=Motion sensor, 360 degrees, 120-277V, side mount - field installed	
	Driver Type CD=0-10V Dimming Driver		

NOTES: ⁽¹⁾ Rigid mount not for use in gymnasiums. ⁽²⁾ For non-lensed option, follow the lens removal directions in the installation instructions. ⁽³⁾ DesignLights Consortium® Qualified and classified for DLC Premium, refer to www.designlights.org for details.

Specifications & dimensions subject to change without notice. Consult your Eaton Representative for availability and ordering information.

ENERGY DATA

Input Watts:
 12 (12,000 lumens)=87W
 18 (18,000 lumens)=132W
 24 (24,000 lumens)=175W
 36 (36,000 lumens)=267W

ENERGY AND PERFORMANCE DATA BY CATALOG NUMBER

	Lensed		Watts	Non-Lensed	
	Delivered Lumens	Efficacy (lm/W)		Delivered Lumens	Efficacy (lm/W)
LHB-12-UNV-L840-CD-U	11,455	131	87	12,249	141
LHB-12-UNV-L850-CD-U	11,493	131	87	12,465	143
LHB-18-UNV-L840-CD-U	17,075	130	132	18,500	140
LHB-18-UNV-L850-CD-U	17,129	130	132	18,663	141
LHB-24-UNV-L840-CD-U	22,012	128	172	24,578	143
LHB-24-UNV-L850-CD-U	22,050	128	172	24,735	144
LHB-36-UNV-L840-CD-U	33,831	128	267	37,924	142
LHB-36-UNV-L850-CD-U	34,196	128	267	38,188	143

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 hours)	Theoretical L70 (Hours)
25°C	> 85%	> 122,000

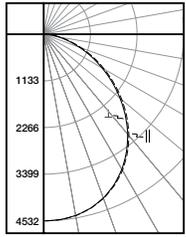
AMBIENT RATINGS

Lumen Package	Ambient Rating
LHB-12	40°C
LHB-18	40°C
LHB-24	40°C
LHB-36	40°C

SHIPPING DATA

Catalog No.	Wt.
LHB-12	10 lbs.
LHB-18	11 lbs.
LHB-24	11 lbs.
LHB-36	18 lbs.

PHOTOMETRICS



LHB-12-UNV-L850

Electronic Driver
 Linear LED 5000K
 Spacing criterion:
 (||) 1.23 x mounting
 height, (⊥) 1.23 x
 mounting height
 Lumens: 11493
 Input Watts: 87.7W
 Efficacy: 131.1 LPW
 Test Report:
 LHB-12-UNV-L850.
 IES

Candlepower

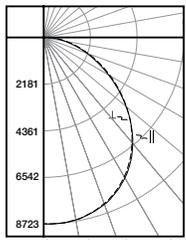
Angle	Along II	45°	Across ⊥
0	4536	4536	4536
5	4523	4522	4518
10	4467	4468	4465
15	4370	4365	4366
20	4228	4227	4217
25	4035	4028	4013
30	3794	3792	3766
35	3504	3506	3467
40	3179	3168	3135
45	2815	2803	2762
50	2431	2410	2372
55	2037	2014	1976
60	1645	1621	1576
65	1279	1251	1209
70	921	900	854
75	602	579	547
80	329	311	283
85	115	104	78
90	0	0	0

Coefficients of Utilization

rc rw RCR	Effective floor cavity reflectance																	
	80%			70%			50%			30%			10%			0%		
	70	50	30	70	50	30	70	50	30	70	50	30	70	50	30	0		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	62
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	54	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0-30	3500	30.4	30.4
0-40	5664	49.3	49.3
0-60	9563	83.2	83.2
0-90	11493	100.0	100.0
0-180	11493	100.0	100.0



LHB-24-UNV-L850

Electronic Driver
 Linear LED 5000K
 Spacing criterion:
 (||) 1.23 x mounting
 height, (⊥) 1.23 x
 mounting height
 Lumens: 22050
 Input Watts: 172.5W
 Efficacy: 127.8 LPW
 Test Report:
 LHB-24-UNV-L850.
 IES

Candlepower

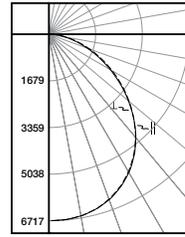
Angle	Along II	45°	Across ⊥
0	8727	8727	8727
5	8700	8704	8704
10	8594	8602	8603
15	8392	8407	8412
20	8130	8158	8174
25	7752	7793	7807
30	7290	7338	7364
35	6738	6790	6810
40	6104	6162	6147
45	5413	5444	5418
50	4664	4687	4624
55	3912	3914	3829
60	3166	3150	3052
65	2457	2418	2332
70	1795	1747	1673
75	1192	1149	1078
80	664	642	578
85	264	243	192
90	0	0	0

Coefficients of Utilization

rc rw RCR	Effective floor cavity reflectance																	
	80%			70%			50%			30%			10%			0%		
	70	50	30	70	50	30	70	50	30	70	50	30	70	50	30	0		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	62
4	84	73	64	58	82	71	64	58	69	62	57	67	61	56	65	59	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32
9	58	45	37	32	57	44	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28	27

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0-30	6744	30.6	30.6
0-40	10918	49.5	49.5
0-60	18385	83.4	83.4
0-90	22050	100.0	100.0
0-180	22050	100.0	100.0



LHB-18-UNV-L850

Electronic Driver
 Linear LED 5000K
 Spacing criterion:
 (||) 1.23 x mounting
 height, (⊥) 1.24 x
 mounting height
 Lumens: 17130
 Input Watts: 131.8W
 Efficacy: 130.0 LPW
 Test Report:
 LHB-18-UNV-L850.
 IES

Candlepower

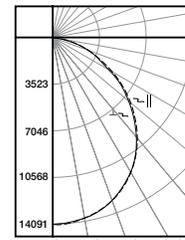
Angle	Along II	45°	Across ⊥
0	6722	6722	6722
5	6703	6703	6697
10	6623	6624	6623
15	6484	6483	6490
20	6268	6281	6291
25	5988	6005	6014
30	5633	5668	5670
35	5211	5246	5239
40	4731	4752	4746
45	4187	4210	4182
50	3623	3630	3587
55	3042	3024	2979
60	2459	2432	2375
65	1907	1872	1810
70	1381	1353	1286
75	906	877	824
80	500	476	436
85	183	173	140
90	0	0	0

Coefficients of Utilization

rc rw RCR	Effective floor cavity reflectance																	
	80%			70%			50%			30%			10%			0%		
	70	50	30	70	50	30	70	50	30	70	50	30	70	50	30	0		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	98	90	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53
5	78	65	56	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	48	42	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0-30	5200	30.4	30.4
0-40	8429	49.2	49.2
0-60	14248	83.2	83.2
0-90	17130	100.0	100.0
0-180	17130	100.0	100.0



LHB-36-UNV-L850

Electronic Driver
 Linear LED 5000K
 Spacing criterion:
 (||) 1.24 x mounting
 height, (⊥) 1.23 x
 mounting height
 Lumens: 34196
 Input Watts: 267W
 Efficacy: 128 LPW
 Test Report:
 LHB-36-UNV-L850.
 IES

Candlepower

Angle	Along II	45°	Across ⊥
0	14080	14080	14080
5	14038	13971	14047
10	13845	13789	13857
15	13531	13470	13534
20	13060	13022	13080
25	12462	12425	12469
30	11721	11699	11716
35	10881	10823	10815
40	9862	9827	9762
45	8767	8688	8627
50	7591	7518	7405
55	6367	6302	6176
60	5204	5055	4909
65	4030	3878	3734
70	2921	2796	2651
75	1944	1811	1712
80	1052	972	889
85	385	332	288
90	0	0	0

Coefficients of Utilization

rc rw RCR	Effective floor cavity reflectance																	
	80%			70%			50%			30%			10%			0%		
	70	50	30	70	50	30	70	50	30	70	50	30	70	50	30	0		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66						