

SPECIFICATION SHEET

SUBJECT

LED PHB HIGH BAY

CUSTOMER PROJECT

Project: _____
 Type: _____
 Cat. No.: _____
 Qty: _____
 Date: _____
 EEL Rep: _____

EELighting

solutions closer to nature

Telephone: 905 415 8878 Fax Number: 905 415 8872 Toll Free Telephone: 855 415 8878 Toll Free Fax: 855 415 8872

DESCRIPTION

The High Performance LED High-Bay is the lighting solution for a wide variety of applications and mounting heights. Precision-designed optics, multiple distributions and a choice of lumen outputs makes the LED High-Bay the ideal solution for industrial, commercial and recreational applications. About 25% less number of fixtures would be required when replacing the conventional lamps with PHBs; thus saving energy and cost.

SPECIFICATION FEATURES

Construction

22 Gauge post-painted steel housing with a frosted acrylic lens
 10 ft cord and "V" Hooks are included
 Clear lens is optional

Electrical

LED High-Bay has a High Performance Long Life LED System completes with electrical drivers for optimal performance
 LED's standard is 5000K, optional is 4000K, with a typical CRI:80
 Ambient temperature -40°C to 40°C
 Electronic Drivers available in 120-277 and 347Volt
 347V PHBs are protected against surges and transients per ANSI C62.41-2002 category C low (6KV, 1.2/50µS & 3KA, 8/20µS) standard Combo waves and (6KV, 100KHz) Ring wave
 PHB 320: 326W equivalent to 482W 8 T5HO lamps
 PHB 220: 216W equivalent to 362W 6 T5HO lamps or 400W Metal Halide
 PHB 160: 160W equivalent to 241W 4 T5HO lamps
 PHB 110: 108W equivalent to 241W 4 T5HO lamps
 L70 > 180,000h
 L36000 = 93.3%

Driver and Module Access

Drivers can be accessed by removing 2 screws on the driver box located at the back of the fixture

Finish

22 gauge galvanized steel and high gloss enamel paint finish ensures maximum bonding and rust inhibition

Shielding

Frosted white acrylic lens

Compliance

cULus, DLC

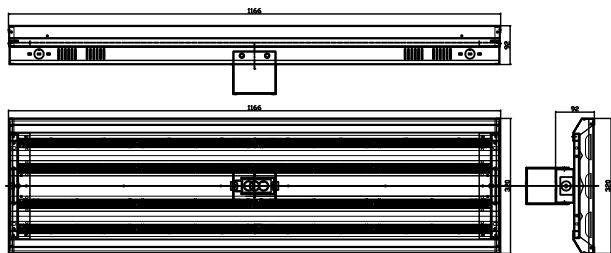
Warranty

5 years



HIGH PERFORMANCE LED HIGH BAY

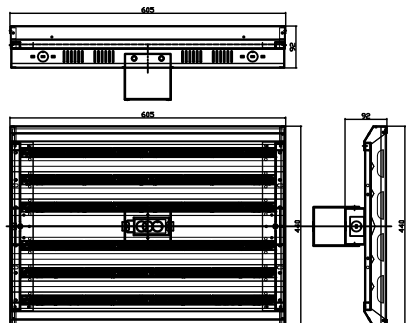
(To be replaced by 2.0)



PHB-4FT-6-320 / PHB-4FT-4-220

Dimensions

mm | 1166(L) x 440(W) x 92(D)
 inch | 46(L) x 17.3(W) x 3.6(D)



PHB-2FT-6-160 / PHB-2FT-4-110

Dimensions

mm | 605(L) x 440(W) x 92(D)
 inch | 24(L) x 17.3(W) x 3.6(D)



Front View



Back View



Front View











Back View



www.eelighting.ca

EELSS18W51

ORDERING CODE, ENERGY AND PERFORMANCE DATA

	Model No.	Delivered Lumens (lm)	Input Watts	Voltage (V)	Colour Temp. (K)	Efficacy (lm/W)	Certification	Type
	PHB-4FT-6-320	44044 41700	326 326	120-277 or 347 120-277 or 347	5000K 4000K	135 127		Standard MTO
	PHB-4FT-4-220	29123 27940	216 220	120-277 or 347 120-277 or 347	5000K 4000K	135 127		Standard MTO
	PHB-2FT-6-160	20740 20325	160 160	120-277 or 347 120-277 or 347	5000K 4000K	131 126		Standard MTO
	PHB-2FT-4-110	14199 14100	110 110	120-277 or 347 120-277 or 347	5000K 4000K	133 127		Standard MTO

NOTE:

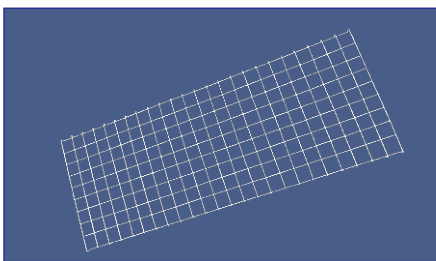
- Lumens are estimated
- DLC qualified may not apply to all versions within a model. Please check the DLC Qualified Products List at www.designlights.org to confirm which versions are qualified.

OPTIONAL ACCESSORIES

ULT - HC419V | Tri-level Dimming Control | 120-277V
 ULT - HC419S | On/Off Sensor Control | 120-277V
 0-10V Dimming Driver (-D) | 120-277 or 347V
 YM2502 | High Bay Occupancy Sensor
 HB-PH | High Bay Pendant Hanger
 PHB-2WG | Wire Guard with screws and clips for 2ft PHB
 PHB-4WG | Wire Guard with screws and clips for 4ft PHB
 PHB-2CL | Clear Lens for 2ft PHB
 PHB-4CL | Clear Lens for 4ft PHB

EMERGENCY BACK-UP (OPTIONAL)

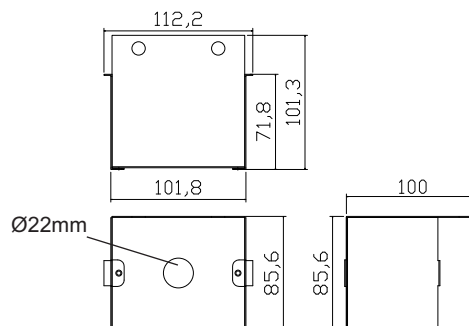
EMAC1150S50D64 | LED Emergency Driver 120-277V DIM
 EMLEDS10155564 | LED Emergency Pack 120-277V (except PHB-2FT-6-120M)



PHB-4WG

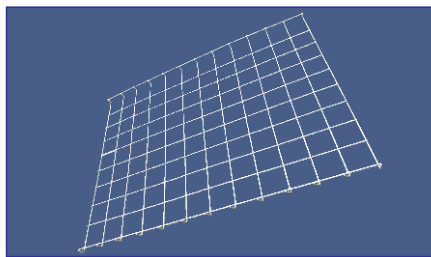


HB-PH



Note:

Pendant hanger attaches to ¾" threaded conduit
 (conduit and required conduit fixing hardware not included)



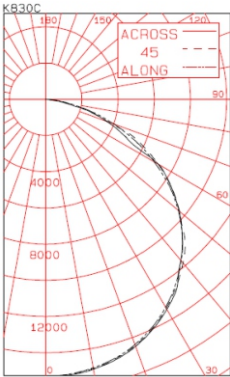
PHB-2WG





PHOTOMETRICS

Note: Photometric data result was obtained under white interior conditions.



PHB-4FT-6-320-120M
S/MH = 1.3
SC = 1.3
Lumens: 44044
Input Watts: 325.60
Efficacy: 135.3 lm/W
Test Report: K830C

Candlepower

ANGLE	ALONG	22.5	45	67.5	ACROSS
0	15284	15284	15284	15284	15284
5	15232	15207	15240	15263	15279
15	14804	14804	14848	14871	14897
25	13894	13905	13961	13988	14011
35	12502	12540	12589	12669	12666
45	10667	10776	10868	10687	10671
55	8339	8490	8485	8474	8477
65	5472	5721	5804	4872	4836
75	2592	2738	2353	2375	2362
85	356	300	86	71	67

Zonal Lumen Summary

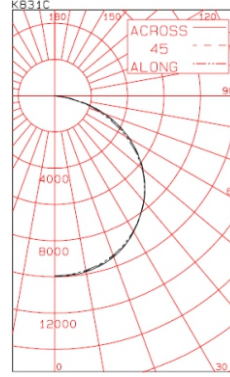
ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	12078	27.42	27.42
0-40	19933	45.26	45.26
0-60	35731	81.13	81.13
0-90	44044	100.00	100.00
40-90	24111	54.74	54.74
60-90	8313	18.87	18.87
90-180	0	.00	.00
0-180	44044	100.00	100.00

Coefficient of Utilization

Effective floor cavity reflectance = 20%

CC WALL	80	70	50	30	10	0
70	50	30	10	50	30	10
50	30	10	50	30	10	50
30	10	50	30	10	50	30
10	50	30	10	50	30	10
0	50	30	10	50	30	10
RCR						
0	1.191	1.191	1.191	1.161	1.161	1.161
1	1.101	1.061	1.02	.99	1.071	1.041
2	1.01	.94	.88	.82	.99	.92
3	.93	.83	.75	.70	.90	.81
4	.85	.74	.66	.60	.83	.73
5	.79	.66	.58	.51	.76	.65
6	.72	.59	.51	.45	.70	.58
7	.66	.53	.45	.39	.65	.52
8	.61	.48	.40	.34	.60	.47
9	.57	.44	.35	.30	.55	.43
10	.53	.40	.32	.26	.52	.39

Note: Photometric data result was obtained under white interior conditions.



PHB-4FT-4-220-120W
S/MH = 1.3
SC = 1.3
Lumens: 29123
Input Watts: 215.6
Efficacy: 135.1 lm/W
Test Report: K831C

Candlepower

ANGLE	ALONG	22.5	45	67.5	ACROSS
0	9947	9947	9947	9947	9947
5	9896	9911	9917	9938	9954
15	9614	9655	9659	9682	9707
25	9027	9067	9086	9096	9110
35	8139	8181	8158	8148	8149
45	6955	7026	6989	7011	6993
55	5452	5481	5559	5556	5541
65	3589	3754	3803	3867	3853
75	1708	1803	1868	1881	1866
85	231	209	35	15	9

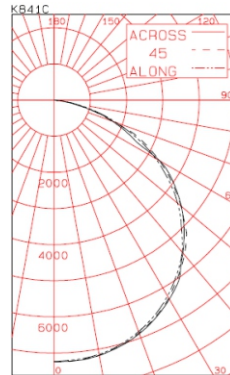
Zonal Lumen Summary

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	7861	26.99	26.99
0-40	12958	44.50	44.50
0-60	23265	79.89	79.89
0-90	29123	100.00	100.00
40-90	16164	55.50	55.50
60-90	5857	20.11	20.11
90-180	0	.00	.00
0-180	29123	100.00	100.00

Coefficient of Utilization

Effective floor cavity reflectance = 20%

CC WALL	80	70	50	30	10	0
70	50	30	10	50	30	10
50	30	10	50	30	10	50
30	10	50	30	10	50	30
10	50	30	10	50	30	10
0	50	30	10	50	30	10
RCR						
0	1.191	1.191	1.191	1.161	1.161	1.161
1	1.101	1.061	1.02	.98	1.071	1.041
2	1.01	.93	.87	.82	.98	.91
3	.92	.82	.75	.69	.90	.81
4	.85	.74	.66	.59	.83	.72
5	.78	.66	.57	.51	.76	.65
6	.72	.59	.50	.44	.70	.58
7	.66	.53	.44	.38	.64	.52
8	.61	.48	.39	.33	.60	.47
9	.57	.43	.35	.29	.55	.43
10	.52	.39	.31	.26	.51	.39



PHB-2FT-6-160-120M
S/MH = 1.3
SC = 1.3
Lumens: 20740
Input Watts: 158.9
Efficacy: 130.5 lm/W
Test Report: K841C

Candlepower

ANGLE	ALONG	22.5	45	67.5	ACROSS
0	7236	7236	7236	7236	7236
5	7205	7213	7232	7237	7234
15	7011	7021	7037	7045	7050
25	6568	6592	6620	6637	6642
35	5898	5922	5962	6012	6025
45	4962	5031	5161	5063	5066
55	3856	3938	3963	4044	4034
65	2551	2619	2676	2340	2314
75	1163	1218	1065	1101	1044
85	128	111	76	41	32

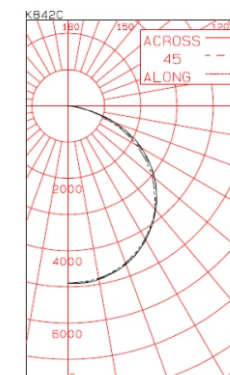
Zonal Lumen Summary

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	5725	27.61	27.61
0-40	9447	45.55	45.55
0-60	16886	81.42	81.42
0-90	20740	100.00	100.00
40-90	11293	54.45	54.45
60-90	3853	18.58	18.58
90-180	0	.00	.00
0-180	20740	100.00	100.00

Coefficient of Utilization

Effective floor cavity reflectance = 20%

CC WALL	80	70	50	30	10	0
70	50	30	10	50	30	10
50	30	10	50	30	10	50
30	10	50	30	10	50	30
10	50	30	10	50	30	10
0	50	30	10	50	30	10
RCR						
0	1.191	1.191	1.191	1.161	1.161	1.161
1	1.101	1.061	1.02	.99	1.071	1.041
2	1.01	.94	.88	.83	.99	.92
3	.93	.83	.76	.70	.90	.81
4	.86	.74	.66	.60	.83	.73
5	.79	.67	.58	.52	.76	.65
6	.72	.60	.51	.45	.70	.58
7	.66	.53	.45	.39	.65	.52
8	.62	.48	.40	.34	.60	.47
9	.57	.44	.36	.30	.56	.43
10	.53	.40	.32	.27	.52	.39



PHB-2FT-4-110-120M
S/MH = 1.3
SC = 1.3
Lumens: 14199
Input Watts: 107.1
Efficacy: 132.6 lm/W
Test Report: K842C

Candlepower

ANGLE	ALONG	22.5	45	67.5	ACROSS
0	4899	4899	4899	4899	4899
5	4875	4882	4894	4906	4912
15	4745	4754	4762	4773	4778
25	4444	4461	4484	4491	4486
35	3994	4009	4019	4025	4023
45	3360	3396	3440	3457	3447
55	2607	2632	2687	2744	2742
65	1705	1776	1817	1903	1895
75	780	822	852	862	811
85	86	76	35	12	5

Zonal Lumen Summary

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	3874	27.29	27.29
0-40	6384	44.96	44.96
0-60	11418	80.42	80.42
0-90	14199	100.00	100.00
40-90	7814	55.04	55.04
60-90	2780	19.58	19.58
90-180	0	.00	.00
0-180	14199	100.00	100.00

Coefficient of Utilization

Effective floor cavity reflectance = 20%

CC WALL	80	70	50	30	10	0
70	50	30	10	50	30	10
50	30	10	50	30	10	50
30	10	50	30	10	50	30
10	50	30	10	50	30	10
0	50	30	10	50	30	10
RCR						
0	1.191	1.191	1.191	1.161	1.161	1.161
1	1.101	1.061	1.02	.98	1.071	1.041
2	1.01	.94	.88	.82	.99	.92
3	.92	.83	.75	.69	.90	.81
4	.85	.74	.66	.60	.83	.73
5	.78	.66	.58	.51	.76	.65
6	.72	.59	.51	.44	.70	.58
7	.66	.53	.44	.38	.65	.52
8	.61	.48	.40	.34	.60	.47
9	.57	.44	.35	.30	.55	.43
10	.53	.40	.31	.26	.51	.39

