

Alphalite

PROJECT NAME

CATALOG NO.

TYPE

DATE

NOTE

SLIM LINEAR LED HIGH BAY

EHB Series

DESCRIPTION

The EHB Series Slim Linear LED High Bay delivers high lumen output, long life, economic solution, and no restrike time. This energy-efficient LED luminaire offers one-to-one replacement of existing HID or fluorescent high bays. Precision-formed reflectors delivers adequate light in high mounting applications. Modular driver and LED arrays. Economic solution to optimize payback. Capable of being operated with occupancy sensor

APPLICATION

Warehouse, manufacturing facilities, retail, gymnasiums, grocery.



EHB

High Performance
Slim Linear
LED High Bay

2' and 4'

13000 Lm
20000 Lm
26000 Lm

SPECIFICATION FEATURES

Construction

Rigid, low-profile steel housing. Precision-engineered and manufactured optics to optimize light delivery to the working plane. Convenient mounting options and sufficient knockouts for controls integration and multiple connection options. Housing features radiator slots for heat dissipation and low temperature LED operation.

Electrical

Luminaire utilizes long life, high efficacy LEDs and a highly efficient, reliable LED driver. 120V-277V input voltage for increased versatility. Comes equipped with quick disconnect for compliance with US code

Mounting

Comes standard equipped with V-hooks for mounting. Accepts various other mounting options: surface, suspension, air craft cable, chain.

Optics

Die formed, 95% reflectivity optical reflectors optimizes performance and light delivery. Comes standard with high transmission frosted lens.

Finish

White enamel finish.

Warranty

5-year limited warranty. See complete warranty terms for details.



Quick Ship Items

EHB2-13/850
EHB2-20/850

ORDERING INFORMATION

Sample Number: EHB2-13/850

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EHB	4	150	8	50	(Blank)	(Blank)
Series	Nominal Length	Nominal Lumen Package	CRI	Nominal CCT	Input Voltage	Control Options
EHB = LED	2 = 2'	2' length	8 = 82+ CRI	50 = 5000K	(Blank) = 120-277V	PIR = PIR Occupancy Sensor
Slim Linear	4 = 4'	13 = 13,000 Lm			480 = 480V	DL = Daylight Photocell
High Bay		20 = 20,000 Lm				
		4' length				
		26 = 26,000 Lm				
		40 = 40,000 Lm				



Specifications and dimensions subject to change without notice.

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SUMMARY

Input Voltage	120V-277V
Input Frequency	50/60 Hz
Input Power	See energy data for details
Power Factor	> 0.95
THD (Max.)	20%
Efficacy	> 110 LPW
Delivered Lumens	See energy data for details
Controls/Dimming	0-10V dimming, Occupancy sensor options available.
CRI	> 82
CCT	5000K
Operating Temp.	-20°C ~ +55°C

ENERGY PERFORMANCE DATA

Lumen package	Lens	Input watts	Lumens	LPW	CCT
EHB2-13/850	Frosted	110	13750	125	5000K
EHB2-20/850	Frosted	160	19280	120	5000K
EHB4-26/850	Frosted	220	26730	121	5000K
EHB4-40/850	Frosted	320	39360	123	5000K

MOUNTING OPTION

V-Clips



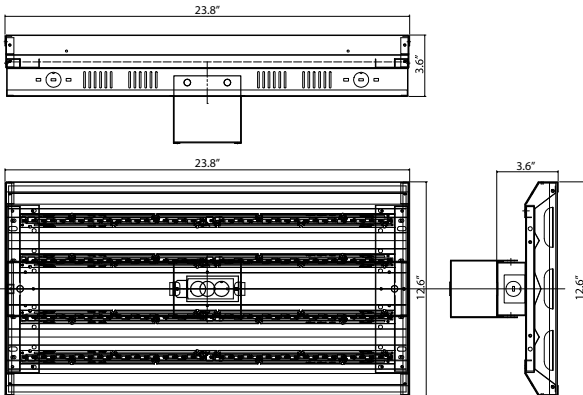
Pendant Hanger



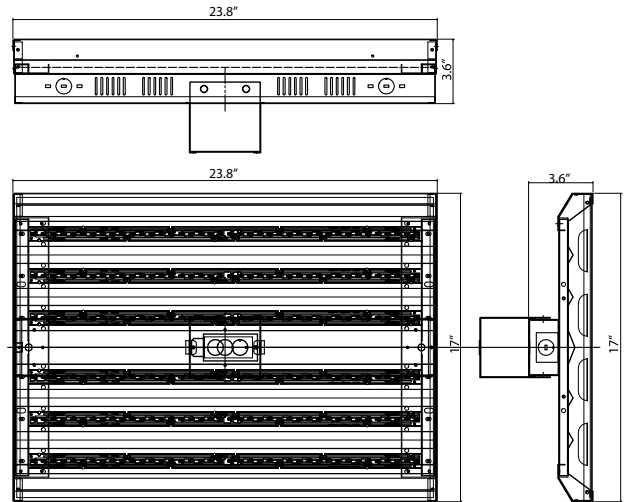
PHYSICAL PARAMETERS

DIMENSION

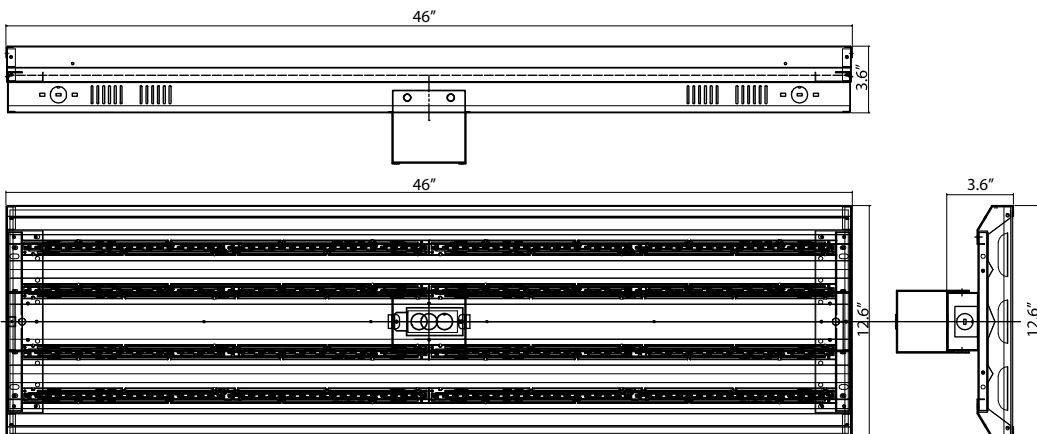
EHB2-13

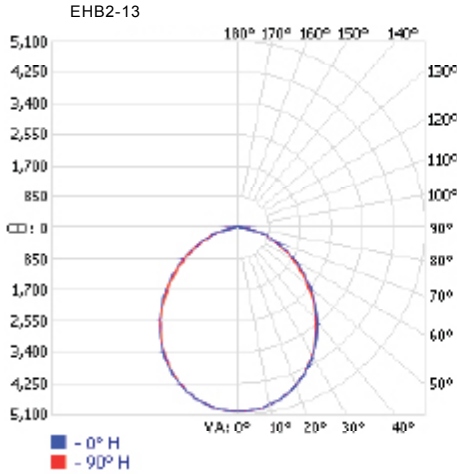


EHB2-20



EHB4-26





Candlepower

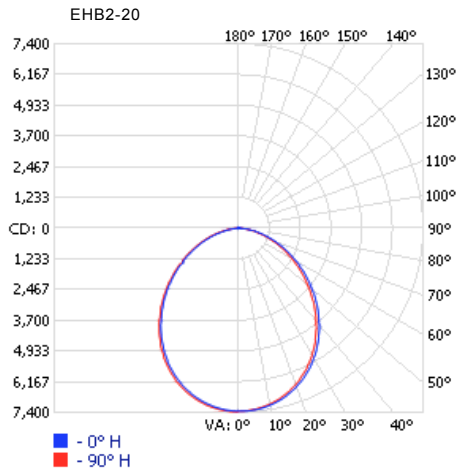
ANGLE IN DEG	0	45	90
0	5019	5019	5019
5	4991	4990	4991
10	4909	4910	4907
15	4775	4770	4772
20	4585	4582	4577
25	4343	4335	4326
30	4059	4044	4028
35	3724	3701	3678
40	3353	3334	3309
45	2975	2934	2919
50	2576	2531	2496
55	2182	2125	2095
60	1769	1730	1707
65	1394	1356	1335
70	1022	1000	988
75	690	684	704
80	380	396	405
85	154	166	177
90	7	11	17

Coefficients of Utilization - Zonal Cavity Method

RCC	EFFECTIVE FLOOR CAVITY REFLECTANCE: 20%																	
	80			70			50			30			10			0		
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1
1	1.09	1.05	1.01	0.97	1.07	1.02	0.99	0.86	0.98	0.95	0.92	0.94	0.92	0.9	0.91	0.89	0.87	0.85
2	1	0.92	0.85	0.8	0.97	0.9	0.84	0.73	0.86	0.81	0.77	0.83	0.79	0.75	0.8	0.77	0.74	0.71
3	0.91	0.81	0.73	0.67	0.89	0.8	0.72	0.62	0.77	0.7	0.65	0.74	0.69	0.64	0.71	0.67	0.63	0.61
4	0.84	0.72	0.64	0.57	0.82	0.71	0.63	0.54	0.68	0.61	0.56	0.66	0.6	0.55	0.64	0.59	0.55	0.52
5	0.77	0.65	0.56	0.5	0.75	0.64	0.55	0.47	0.62	0.54	0.49	0.6	0.53	0.48	0.58	0.52	0.48	0.46
6	0.72	0.59	0.5	0.44	0.7	0.58	0.49	0.42	0.56	0.48	0.43	0.54	0.48	0.43	0.53	0.47	0.42	0.4
7	0.66	0.53	0.45	0.39	0.65	0.52	0.44	0.37	0.51	0.44	0.38	0.49	0.43	0.38	0.48	0.42	0.38	0.36
8	0.62	0.49	0.4	0.35	0.6	0.48	0.4	0.34	0.47	0.39	0.34	0.45	0.39	0.34	0.44	0.38	0.34	0.32
9	0.58	0.45	0.37	0.31	0.56	0.44	0.36	0.31	0.43	0.36	0.31	0.42	0.35	0.31	0.41	0.35	0.31	0.29
10	0.54	0.41	0.34	0.28	0.53	0.41	0.33	0.28	0.4	0.33	0.28	0.39	0.33	0.28	0.38	0.32	0.28	0.26

Zonal Lumen Summary

ZONE	LUMENS	% LUMINAIRE
0-30	3,813.50	30.30%
0-40	6,127.50	48.80%
0-60	10,292.40	81.90%
60-90	2,260.20	18%
70-100	917.5	7.30%
90-120	5.5	0%
0-90	12,552.50	99.90%
90-180	16.5	0.10%
0-180	12,569.00	100%



Candlepower

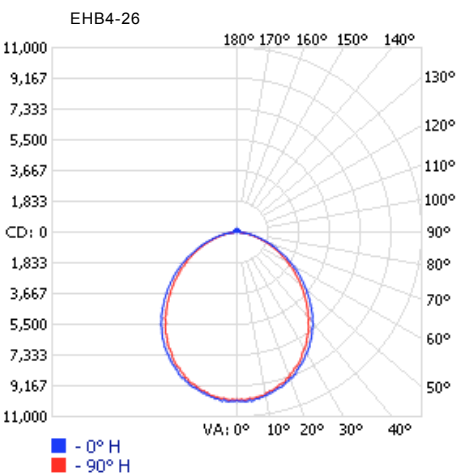
ANGLE IN DEG	0	45	90
0	7350	7350	7350
5	7321	7310	7301
10	7218	7196	7176
15	7039	7000	6958
20	6776	6734	6677
25	6437	6369	6309
30	6022	5956	5884
35	5556	5482	5363
40	5039	4939	4824
45	4463	4340	4256
50	3851	3760	3639
55	3268	3180	3059
60	2693	2575	2481
65	2100	2029	1914
70	1555	1497	1417
75	1061	1008	965
80	677	668	548
85	254	247	224
90	68	26	19

Coefficients of Utilization - Zonal Cavity Method

RCC	EFFECTIVE FLOOR CAVITY REFLECTANCE: 20%																	
	80			70			50			30			10			0		
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1
1	1.09	1.05	1.01	0.97	1.07	1.02	0.99	0.86	0.98	0.95	0.92	0.94	0.92	0.89	0.91	0.89	0.87	0.85
2	1	0.92	0.85	0.8	0.97	0.9	0.84	0.73	0.86	0.81	0.77	0.83	0.79	0.75	0.8	0.77	0.74	0.71
3	0.91	0.81	0.73	0.67	0.89	0.8	0.72	0.62	0.77	0.7	0.65	0.74	0.68	0.64	0.71	0.67	0.63	0.61
4	0.84	0.72	0.64	0.57	0.82	0.71	0.63	0.54	0.68	0.61	0.56	0.66	0.6	0.55	0.64	0.59	0.54	0.52
5	0.77	0.65	0.56	0.49	0.75	0.64	0.55	0.47	0.61	0.54	0.49	0.59	0.53	0.48	0.58	0.52	0.48	0.46
6	0.71	0.58	0.5	0.43	0.7	0.57	0.49	0.42	0.56	0.48	0.43	0.54	0.47	0.42	0.52	0.47	0.42	0.4
7	0.66	0.53	0.45	0.39	0.65	0.52	0.44	0.37	0.51	0.44	0.38	0.49	0.43	0.38	0.48	0.42	0.38	0.36
8	0.62	0.49	0.4	0.35	0.6	0.48	0.4	0.34	0.47	0.39	0.34	0.45	0.39	0.34	0.44	0.38	0.34	0.32
9	0.58	0.45	0.37	0.31	0.56	0.44	0.36	0.31	0.43	0.36	0.31	0.42	0.35	0.31	0.41	0.35	0.31	0.29
10	0.54	0.41	0.34	0.28	0.53	0.41	0.33	0.28	0.4	0.33	0.28	0.39	0.32	0.28	0.38	0.32	0.28	0.26

Zonal Lumen Summary

ZONE	LUMENS	% LUMINAIRE
0-30	5,595.60	30.20%
0-40	9,003.80	48.60%
0-60	15,163.00	81.80%
60-90	3,351.80	18.10%
70-100	1,361.00	7.30%
90-120	9.5	0.10%
0-90	18,514.70	99.90%
90-180	23.2	0.10%
0-180	18,537.90	100%



Candlepower

ANGLE IN DEG	0	45	90
0	9991	9991	9991
5	10128	9903	9950
10	9853	9772	9788
15	9624	9489	9463
20	9257	9074	9138
25	8845	8594	8650
30	8341	8027	8001
35	7745	7351	7391
40	7012	6587	6701
45	6187	5802	5808
50	5408	5039	4995
55	4583	4253	4224
60	3804	3490	3452
65	2887	2748	2721
70	2200	2072	1990
75	1512	1418	1300
80	871	872	772
85	367	436	406
90	137	153	203

Coefficients of Utilization - Zonal Cavity Method

RCC	EFFECTIVE FLOOR CAVITY REFLECTANCE: 20%																	
	80			70			50			30			10			0		
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.18	1.18	1.18	1.18	1.15	1.15	1.15	0.97	1.1	1.1	1.1	1.04	1.04	1.04	1	1	1	0.97
1	1.08	1.04	1	0.96	1.06	1.01	0.98	0.83	0.97	0.94	0.91	0.92	0.9	0.87	0.88	0.86	0.84	0.82
2	0.99	0.91	0.84	0.79	0.96	0.89	0.83	0.7	0.85	0.8	0.76	0.81	0.77	0.73	0.78	0.75	0.71	0.69
3	0.91	0.8	0.72	0.66	0.88	0.79	0.71	0.6	0.75	0.69	0.64	0.72	0.67	0.62	0.68	0.65	0.61	0.59
4	0.83	0.71	0.63	0.56	0.81	0.7	0.62	0.52	0.67	0.6	0.55	0.65	0.59	0.54	0.62	0.57	0.53	0.51
5	0.77	0.64	0.55	0.49	0.74	0.63	0.55	0.46	0.6	0.53	0.48	0.58	0.52	0.47	0.56	0.51	0.46	0.44
6	0.71	0.58	0.49	0.43	0.69	0.57	0.49	0.41	0.55	0.47	0.42	0.53	0.46	0.41	0.51	0.45	0.41	0.39
7	0.66	0.53	0.44	0.38	0.64	0.52	0.44	0.36	0.5	0.43	0.37	0.48	0.42	0.37	0.47	0.41	0.36	0.34
8	0.61	0.48	0.4	0.34	0.6	0.47	0.39	0.33	0.46	0.39	0.33	0.44	0.38	0.33	0.43	0.37	0.33	0.31
9	0.57	0.44	0.36	0.31	0.56	0.43	0.36	0.3	0.42	0.35	0.3	0.41	0.35	0.3	0.4	0.34	0.3	0.28
10	0.54	0.41	0.33	0.28	0.52	0.4	0.33	0.27	0.39	0.32	0.28	0.38	0.32	0.27	0.37	0.31	0.27	0.25

Zonal Lumen Summary

ZONE	LUMENS	% LUMINAIRE
0-30	7,617.90	29.20%
0-40	12,259.20	47%
0-60	20,660.50	79.20%
60-90	4,710.30	18.10%
70-100	2,104.40	8.10%
90-120	346.9	1.30%
0-90	25,370.80	97.30%
90-180	711.5	2.70%
0-180	26,082.30	100%

