

LED Warehouse Industrial Lighting - 2 Ft Compact High Bay SPEC SHEET



0-10*
Dimmable



Simply Install and Enjoy the Savings!

Our compact linear LED high bays are a high performance, cost-effective solution for lighting warehouses, distribution centers and manufacturing facilities. Available with standard 0-10V dimming capability, these DLC premium qualified fixtures deliver on performance and are suitable for mounting heights of up to 25 feet. Featuring compact 2 ft length, universal input voltage, prismatic lens, 50K hour life, and a 10 year warranty.



*Optional Wire Guard,
Surge Protector and
Occupancy Sensor*

FEATURES

- Replacement for fluorescent or HID warehouse lighting
- Steel housing with UV resistant powder coat finish
- Equipped with heat resistant frosted acrylic lens
- Mounting includes V hook, chain or pendant mount
- Optional wire guard
- UL Type IC

APPLICATIONS

- Warehouse & industrial lighting, gymnasiums
- Big box retailers



Job Name/Title: _____ Catalog Number _____

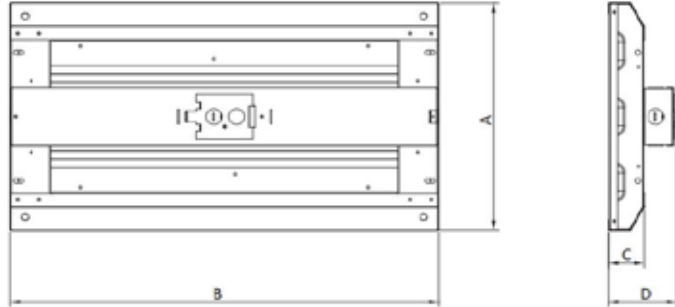
Contractor: _____ Notes: _____

LED Warehouse Industrial Lighting - 2 Ft Compact High Bay

SPEC SHEET

GENERAL SPECIFICATIONS

- Volts:** 120-277V
- Dimmable:** 0-10V*
- Sink Current:** 2mA Max
- Average Rated Life:** 50,000 (L70)
- Lumens Per Watt:** 130
- THD:** <20%
- Power Factor:** >.9
- Beam Angle:** 120°
- CRI:** 80
- Ambient temp:** -20°C to 45°C



Item #	A	B	C	D	Weight (lbs)
F-LHB80/50K/F-87	12.60"	23.82"	1.97"	3.78"	10.4
F-LHB110/50K/F-87	12.60"	23.82"	1.97"	3.78"	10.4
F-LHB165/50K/F-87	17.32"	23.82"	1.97"	3.78"	14.3

SPECIFICATIONS / ORDER INFO

Catalog Number	Product Code	UPC Code	Watts	Lumens	Equiv Wattage	DLC ID	Case Qty
F-LHB80/50K/F-87	77890	751338018075	80	10,400	6 LAMP 32W-T8	P5E6A9R4	1
F-LHB110/50K/F-87	77891	751338018099	110	14,300	4 LAMP 54W T5HO	PSA9ZWWK	1
F-LHB165/50K/F-87	77892	751338018082	165	21,450	400W MH	P6KYNFZC	1

ENERGY SAVINGS

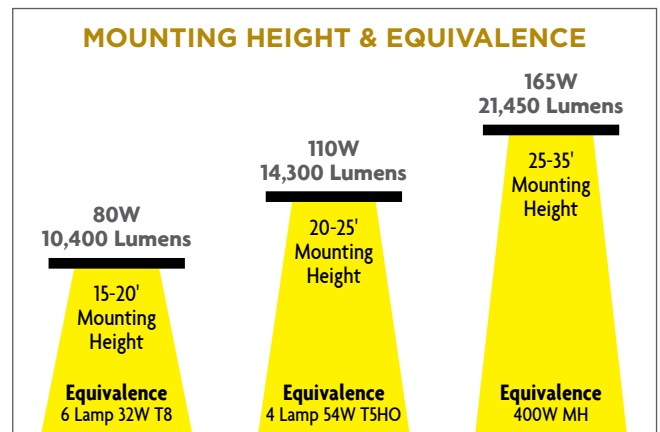
	LED Watts	Suggested Equivalent	Watts	Energy Savings, Watts	Yearly Saving, \$	5 Year Savings, \$
Based on 12 hours/day and .11/kwhr						
F-LHB80/50K/F-87	80	6 X 32W T8	192	112	\$53.96	\$269.80
F-LHB110/50K/F-87	110	4 X 54WT5 HO	216	106	\$51.07	\$255.35
F-LHB165/50K/F-87	165	400W MH	440	275	\$132.50	\$662.48

ACCESSORY ORDER INFO

Item #	Order Code	Description
F-LHB80-Guard	77910	Wire Guard
F-LHB110-Guard	77911	Wire Guard
F-LHB165-Guard	77913	Wire Guard
WD-SP	79200	Surge Protector (120-277V)
WD-OS	72700	Occupance Sensor (120-277V)

NOMENCLATURE

Example: **F-LHB80/50K/F**
F=Fixture / **LHB80**=Linear High Bay 80W / **50K**=5000K / **F**=Frosted



*Dimming with standard 0-10V dimmer, such as Leviton IP710, DS710 or Lutron DVSTV

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Fixture may not be compatible with all dimmers. Visit www.topaz-usa.com for up-to-date dimmer compatibility information. Specifications subject to change without notice.



Job Name/Title: _____ Catalog Number _____

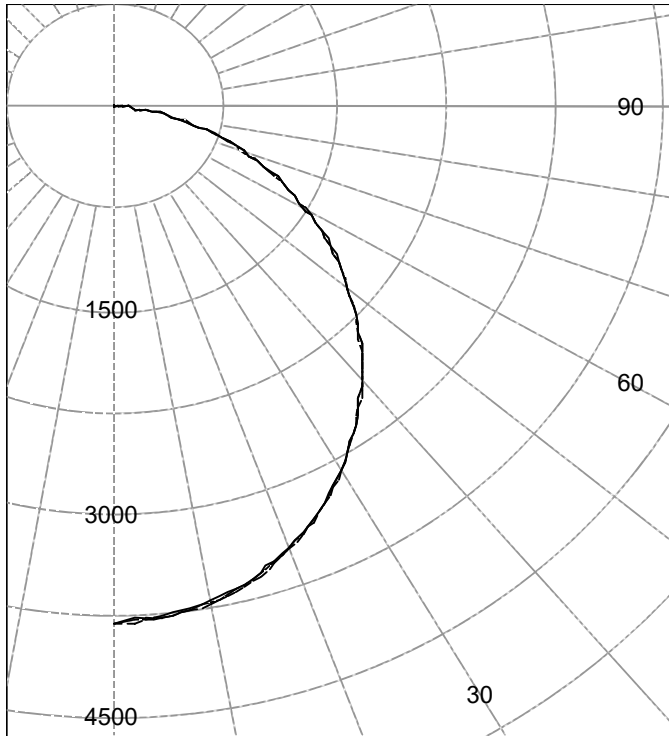
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LED Warehouse Industrial Lighting - 2 Ft Compact High Bay

SPEC SHEET

F-LHB80/50K/F-87

Legend: C0-Solid, C45-Dashed, C90-Grey (cd)



INTENSITY SUMMARY (cd)

Gamma	C-Plane					Flux (lm)
	C0	C22.5	C45	C67.5	C90	
0.0	3800	3800	3800	3800	3800	
5.0	3758	3779	3785	3783	3772	359
10.0	3696	3716	3721	3718	3708	
15.0	3594	3613	3617	3614	3603	1018
20.0	3455	3473	3475	3471	3461	
25.0	3283	3299	3299	3295	3285	1517
30.0	3082	3096	3095	3089	3081	
35.0	2857	2868	2866	2860	2853	1790
40.0	2612	2620	2617	2611	2605	
45.0	2352	2357	2353	2347	2343	1813
50.0	2079	2082	2078	2073	2070	
55.0	1796	1797	1794	1789	1787	1603
60.0	1507	1507	1504	1500	1499	
65.0	1217	1216	1213	1209	1209	1200
70.0	928	927	925	921	921	
75.0	651	650	648	645	645	687
80.0	394	394	392	389	388	
85.0	170	169	168	166	165	192
90.0	5	5	4	4	4	

AVERAGE LUMINANCE (cd / m²)

Gamma	C0	C45	C90
45.0	14026	14037	13977
55.0	13209	13190	13143
65.0	12142	12105	12063
75.0	10607	10556	10509
85.0	8205	8113	8002

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	% Lamp	% Luminaire
0-30	2894	N / A	28.4
0-40	4683	N / A	46.0
0-60	8099	N / A	79.6
0-90	10178	N / A	100.0
40-90	5495	N / A	54.0
60-90	2079	N / A	20.4
90-180	0	N / A	0.0
0-180	10178	N / A	100.0

Total Light Output = 10,178 lm

Spacing Criterion: 0-180 1.2
 Spacing Criterion: 90-270 1.2



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SPEC SHEET

F-LHB80/50K/F-87

Coefficients Of Utilization - Zonal Cavity Method																			
Effective Floor Cavity Reflectance 0.20																			
RC	80				70				50			30			10			0	
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
1	109	104	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84	
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	75	72	70	
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59	
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51	
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44	
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	41	38	
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34	
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30	
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27	
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25	

For absolute test reports, CUs are expressed as a percentage of total lumen output. Calculations were based on published IES procedures, and are based on the zonal cavity method. Basic assumptions: 1) Room surfaces are lambertian reflectors. 2) Incident flux on each surface is uniformly distributed. 3) The room is spectrally neutral. When luminaires are not evenly distributed throughout the room, or do not exhibit lateral symmetry, CU values may differ from actual performance.

Circle of Light Plot			
Height(ft)	Illuminance at Nadir (fc)	Beam Width (across 50% Nadir Illum)	
		0-180	90-270
6.0	105.5	7.26	7.25
8.0	59.4	9.67	9.67
10.0	38.0	12.09	12.09
12.0	26.4	14.51	14.50
14.0	19.4	16.93	16.92
16.0	14.8	19.35	19.34



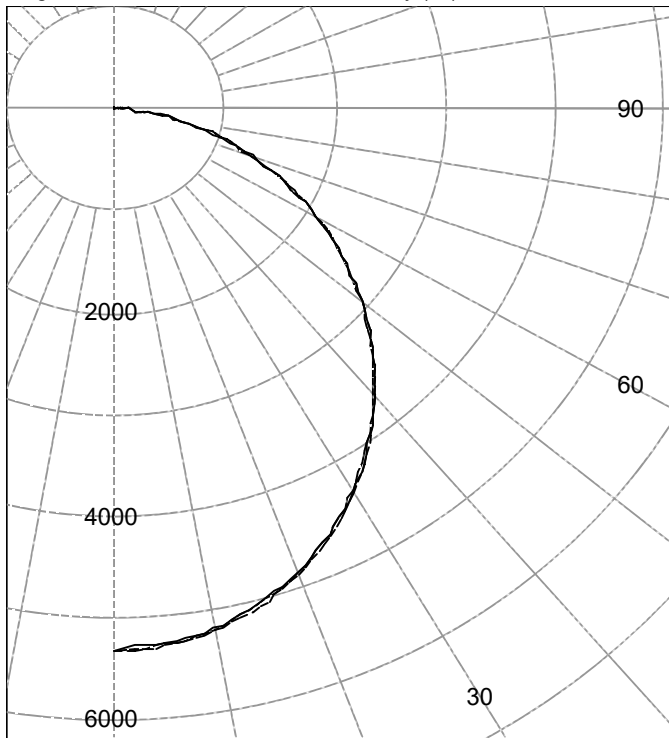
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Contractor: _____ Notes: _____

LED Warehouse Industrial Lighting - 2 Ft Compact High Bay SPEC SHEET

F-LHB110/50K/F-87

Legend: C0-Solid, C45-Dashed, C90-Grey (cd)



(Two plane symmetry) C0-C90

AVERAGE LUMINANCE (cd / m²)

Gamma	C0	C45	C90
45.0	28022	28022	27872
55.0	26422	26361	26227
65.0	24324	24222	24092
75.0	21335	21204	21054
85.0	16673	16522	16323

INTENSITY SUMMARY (cd)

Gamma	C-Plane					Flux (lm)
	C0	C22.5	C45	C67.5	C90	
0.0	5321	5321	5321	5321	5321	
5.0	5265	5292	5302	5298	5282	502
10.0	5179	5204	5213	5209	5193	
15.0	5037	5062	5068	5063	5048	1426
20.0	4844	4868	4871	4865	4850	
25.0	4606	4626	4627	4620	4606	2128
30.0	4327	4345	4343	4335	4322	
35.0	4014	4029	4025	4015	4004	2513
40.0	3673	3683	3678	3667	3658	
45.0	3310	3316	3310	3299	3292	2550
50.0	2928	2931	2924	2914	2909	
55.0	2531	2531	2525	2517	2513	2256
60.0	2126	2124	2119	2111	2108	
65.0	1717	1714	1710	1703	1701	1691
70.0	1312	1309	1305	1299	1297	
75.0	922	920	917	911	910	971
80.0	561	560	557	553	551	
85.0	243	242	241	238	238	275
90.0	7	8	10	12	12	

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	% Lamp	% Luminaire
0-30	4056	N / A	28.3
0-40	6569	N / A	45.9
0-60	11375	N / A	79.5
0-90	14313	N / A	100.0
40-90	7743	N / A	54.1
60-90	2938	N / A	20.5
90-180	1	N / A	0.0
0-180	14313	N / A	100.0

Total Light Output = 14,313 lm

Spacing Criterion: 0-180 1.2
 Spacing Criterion: 90-270 1.2



Job Name/Title: _____ Catalog Number _____

Contractor: _____ Notes: _____

LED Warehouse Industrial Lighting - 2 Ft Compact High Bay

SPEC SHEET

F-LHB110/50K/F-87

Coefficients Of Utilization - Zonal Cavity Method																			
Effective Floor Cavity Reflectance 0.20																			
RC	80				70				50			30			10			0	
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
1	109	104	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84	
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	75	72	70	
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	59	
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51	
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	44	
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38	
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34	
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30	
9	57	43	35	30	55	43	35	30	42	35	29	41	34	29	40	34	29	27	
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25	

For absolute test reports, CUs are expressed as a percentage of total lumen output. Calculations were based on published IES procedures, and are based on the zonal cavity method. Basic assumptions: 1) Room surfaces are lambertian reflectors. 2) Incident flux on each surface is uniformly distributed. 3) The room is spectrally neutral. When luminaires are not evenly distributed throughout the room, or do not exhibit lateral symmetry, CU values may differ from actual performance.

Circle of Light Plot			
Height(ft)	Illuminance at Nadir (fc)	Beam Width (across 50% Nadir Illum)	
		0-180	90-270
6.0	147.8	7.27	7.26
8.0	83.1	9.70	9.68
10.0	53.2	12.12	12.10
12.0	37.0	14.54	14.53
14.0	27.1	16.97	16.95
16.0	20.8	19.39	19.37



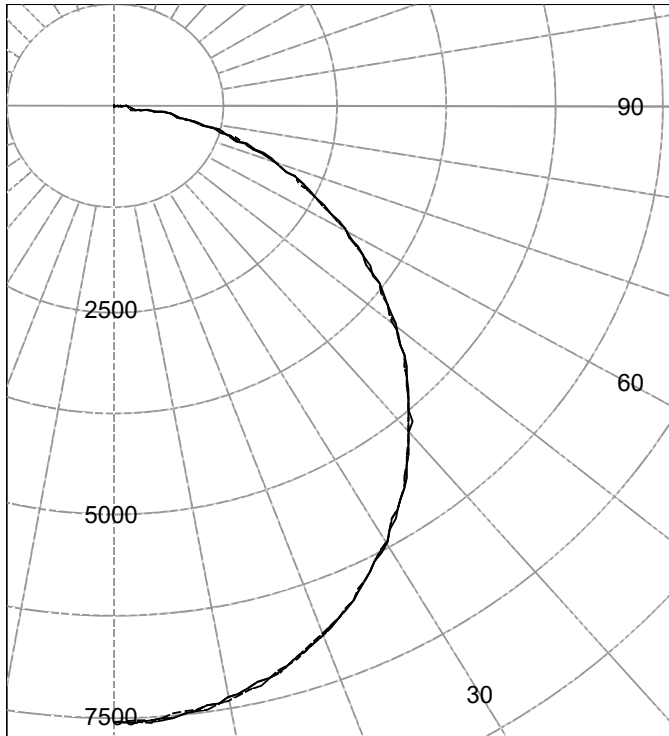
Job Name/Title: _____ Catalog Number _____

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LED Warehouse Industrial Lighting - 2 Ft Compact High Bay SPEC SHEET

F-LHB165/50K/F-87

Legend: C0-Solid, C45-Dashed, C90-Grey (cd)



INTENSITY SUMMARY (cd)

Gamma	C-Plane					Flux (lm)
	C0	C22.5	C45	C67.5	C90	
0.0	7549	7549	7549	7549	7549	
5.0	7506	7504	7498	7506	7527	713
10.0	7381	7378	7373	7380	7399	
15.0	7179	7175	7168	7175	7191	2023
20.0	6903	6897	6890	6896	6908	
25.0	6561	6553	6545	6551	6559	3018
30.0	6162	6151	6143	6148	6152	
35.0	5712	5700	5692	5696	5696	3563
40.0	5222	5208	5201	5204	5201	
45.0	4701	4686	4679	4681	4678	3612
50.0	4154	4141	4134	4135	4132	
55.0	3589	3578	3571	3570	3568	3196
60.0	3016	3009	3001	2998	2996	
65.0	2445	2438	2430	2425	2422	2408
70.0	1883	1877	1869	1861	1857	
75.0	1345	1340	1330	1321	1316	1409
80.0	841	837	827	817	813	
85.0	380	377	371	364	361	419
90.0	21	22	22	21	21	

AVERAGE LUMINANCE (cd / m²)

Gamma	C0	C45	C90
45.0	28038	27909	27903
55.0	26389	26260	26235
65.0	24399	24255	24174
75.0	21925	21674	21448
85.0	18373	17931	17477

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	% Lamp	% Luminaire
0-30	5753	N / A	28.3
0-40	9316	N / A	45.8
0-60	16124	N / A	79.2
0-90	20360	N / A	100.0
40-90	11044	N / A	54.2
60-90	4236	N / A	20.8
90-180	1	N / A	0.0
0-180	20362	N / A	100.0

Total Light Output = 20,362 lm

Spacing Criterion: 0-180 1.2
Spacing Criterion: 90-270 1.2



Job Name/Title: _____ Catalog Number _____

Contractor: _____ Notes: _____

LED Warehouse Industrial Lighting - 2 Ft Compact High Bay

SPEC SHEET

F-LHB165/50K/F-87

Coefficients Of Utilization - Zonal Cavity Method																			
Effective Floor Cavity Reflectance 0.20																			
RC	80				70				50			30			10			0	
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84	
2	99	91	84	78	96	89	82	77	85	80	75	82	78	74	79	75	72	70	
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61	59	
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	53	50	
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44	
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	38	
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34	
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30	
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27	
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25	

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Circle of Light Plot			
Height(ft)	Illuminance at Nadir (fc)	Beam Width (across 50% Nadir Illum)	
		0-180	90-270
6.0	209.7	7.29	7.28
8.0	118.0	9.73	9.71
10.0	75.5	12.16	12.14
12.0	52.4	14.59	14.57
14.0	38.5	17.02	16.99
16.0	29.5	19.45	19.42