

LED High Bay Fixture SPLASHDOWN SERIES



Superior Safety Performance

Topaz's LED High Bay Splashdown Series is ideal for food processing facilities, agricultural and high ambient temperature locations. Smooth body with cast aluminum construction makes this fixture able to withstand high temperature and high pressure water, while avoiding dust and water accumulation. The impact resistant polycarbonate lens is made to meet the stringent requirements of food processing and industrial machinery applications.

FEATURES

- IP69K rated for maximum resistance of dust, steam, and high-pressure water
- IK08 rated lens to withstand impacts up to 5 joules
- NSF certified for food processing and hose down requirement
- Smooth aluminum housing designed to reduce dust and debris accumulation for complete cleanability
- High efficacy LEDs project up to 130 lumens per watt
- Suitable for operation in extreme temperatures (-40°F to 140°F)
- Ring hook and 6 foot power cord for easy installation
- 3 ft safety cable included

APPLICATIONS

- Suitable for wet locations
- Food production
- Warehouse and industrial lighting, big box retail
- Cold storage facilities
- Agricultural





Job Name/Title: _____ Catalog Number _____
Contractor: _____ Notes: _____

LED High Bay Fixture SPLASHDOWN SERIES

GENERAL SPECIFICATIONS

Input Voltage, Frequency: 120-277V, 50/60Hz

Power Factor: >0.9

THD: <20%

Surge Protection: 6kV

Average Rated Life (L70): 50,000 hours

Beam Angle: 120°

CRI: >80

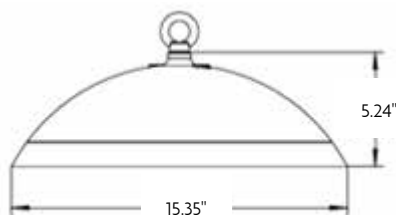
CCT: 5000K

Color: White

Ambient Operating Temp: -40°F to 140°F

Unit Weight: 12.3 lbs

DIMENSIONS



MOUNTING HEIGHT & REPLACEMENT

150W
19,500 Lumens

20'-25'
Mounting
Height

Replacement
400W HID

200W
26,000 Lumens

25'-35'
Mounting
Height

Replacement
400W HID

SPECIFICATIONS / ORDER INFO

Catalog Number	Order Code	UPC	Lumens	Input Amps @120V/@277V	Wattage	Lumens Per Watt	Replacement HID Wattage*	NSF	DLC	Case Qty
F-LUHB/150/50K/WD	74391	751338032248	19,500	1.65/0.85	150W	130	400W	Y	PL9HO1MJA4S0	1
F-LUHB/200/50K/WD	74392	751338032255	26,000	1.8/0.9	200W	130	400W	Y	PL7B5XNNUD02	1

ENERGY SAVINGS

	LED Wattage	Equiv HID Wattage	Watts Saved	Yearly Saving, \$	5 Year Savings, \$
Based on 12 hours/day and \$0.11/kWh					
F-LUHB/150/50K/WD	150W	400W	250W	\$120.45	\$602.25
F-LUHB/200/50K/WD	200W	400W	200W	\$96.36	\$481.80

NOMENCLATURE

Example: F-LUHB/150/50K/WD

F=Fixture / **LUHB**=LED High Bay / **150**=150W / **50K**=5000K / **WD**=Wash Down

*HID replacement and recommended mounting height may vary and depend on application required illuminance
Specifications subject to change without notice.

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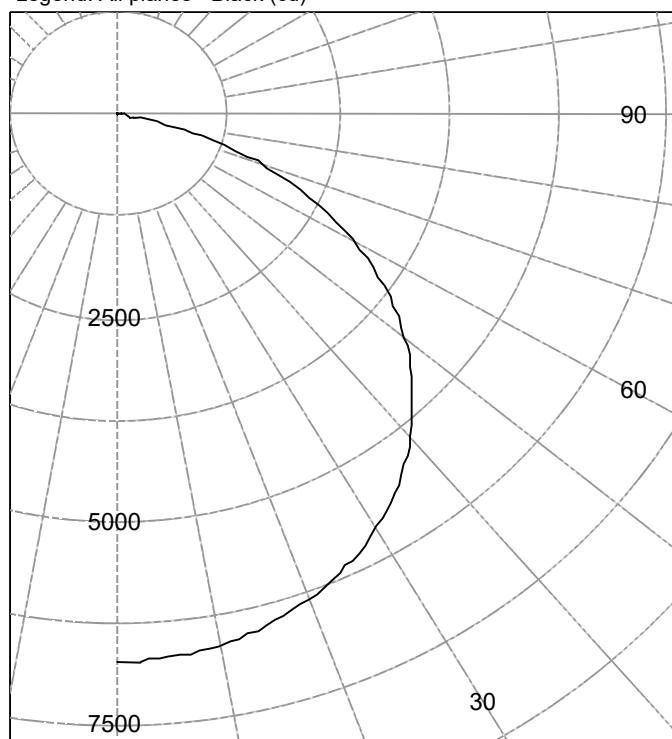


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LED High Bay Fixture SPLASHDOWN SERIES

F-LUHB/150/50K/WD

Legend: All planes - Black (cd)



(Rotational symmetry)

AVERAGE LUMINANCE (cd / m²)

Gamma	C0
45.0	146660
55.0	140835
65.0	124390
75.0	84546
85.0	18348

INTENSITY SUMMARY (cd)

Gamma	All Planes	Flux (lm)	Gamma	C0	Flux (lm)
0	6716		90	0	
5	6689	636	95	0	0
10	6617		100	0	
15	6504	1837	105	0	0
20	6341		110	0	
25	6130	2826	115	0	0
30	5865		120	0	
35	5542	3467	125	0	0
40	5164		130	0	
45	4731	3645	135	0	0
50	4238		140	0	
55	3685	3285	145	0	0
60	3068		150	0	
65	2398	2361	155	0	0
70	1675		160	0	
75	998	1076	165	0	0
80	450		170	0	
85	73	136	175	0	0
90	0		180	0	

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	%Lamp	%Luminaire
0-30	5300	N / A	27.5
0-40	8766	N / A	45.5
0-60	15697	N / A	81.5
0-90	19270	N / A	100.0
40-90	10504	N / A	54.5
60-90	3573	N / A	18.5
90-180	0	N / A	0.0
0-180	19270	N / A	100.0

Total Light Output = 19,270 lm

Spacing Criterion: 0-180 1.3
 Spacing Criterion: 90-270 1.3



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LED High Bay Fixture SPLASHDOWN SERIES

F-LUHB/150/50K/WD

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	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	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	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	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
15.0	29.9	19.44	19.44
20.0	16.8	25.92	25.92
25.0	10.7	32.40	32.40
30.0	7.5	38.88	38.88
35.0	5.5	45.36	45.36
40.0	4.2	51.84	51.84

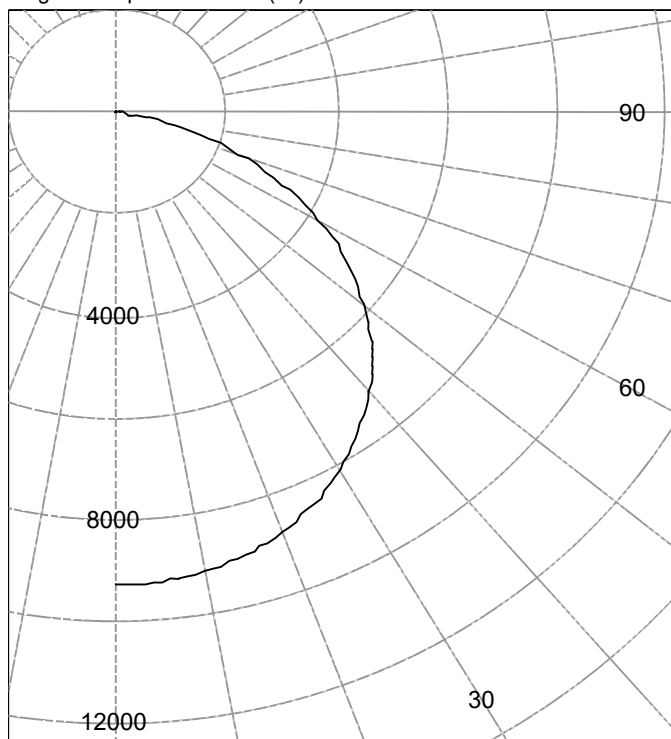


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LED High Bay Fixture SPLASHDOWN SERIES

F-LUHB/200/50K/WD

Legend: All planes - Black (cd)



(Rotational symmetry)

AVERAGE LUMINANCE (cd / m²)

Gamma	C0
45.0	203093
55.0	195024
65.0	172205
75.0	118125
85.0	27625

INTENSITY SUMMARY (cd)

Gamma	All Planes	Flux (lm)	Gamma	C0	Flux (lm)
0	9288		90	0	
5	9256	880	95	0	0
10	9159		100	0	
15	9001	2542	105	0	0
20	8775		110	0	
25	8484	3912	115	0	0
30	8118		120	0	
35	7668	4797	125	0	0
40	7147		130	0	
45	6551	5048	135	0	0
50	5871		140	0	
55	5103	4551	145	0	0
60	4250		150	0	
65	3320	3274	155	0	0
70	2341		160	0	
75	1395	1504	165	0	0
80	637		170	0	
85	110	198	175	0	0
90	0		180	0	

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	%Lamp	%Luminaire
0-30	7334	N / A	27.5
0-40	12132	N / A	45.4
0-60	21730	N / A	81.4
0-90	26707	N / A	100.0
40-90	14575	N / A	54.6
60-90	4976	N / A	18.6
90-180	0	N / A	0.0
0-180	26707	N / A	100.0

Total Light Output = 26,707 lm

Spacing Criterion: 0-180 1.3
 Spacing Criterion: 90-270 1.3



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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	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85
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		0-180	90-270
15.0	41.3	19.45	19.45
20.0	23.2	25.93	25.93
25.0	14.9	32.42	32.42
30.0	10.3	38.90	38.90
35.0	7.6	45.39	45.39
40.0	5.8	51.87	51.87