Job Name/Title:_____ Catalog Number_____

Contractor:_____ Notes:_____

LED High Bay Fixture

SPLASHDOWN SERIES WITH MOTION SENSOR

Two-Stage Motion Response for Broad Applications

Topaz's LED High Bay Splashdown Series with its integrated two-stage motion response sensor is a versatile, reconfigurable solution for a variety of applications. Able to withstand extreme conditions in non-temperature controlled environments, this fixture is ideal for food processing, agricultural, and high ambient temperature locations. Smooth body with cast aluminum construction and an IP69K rating makes this fixture able to withstand contact with high temperature and high-pressure water while avoiding dust and moisture 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
- Equipped with microwave motion sensor with factory pre-set light level down to 30% during vacancy

APPLICATIONS

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

Job Name/Title:_____Catalog Number_____

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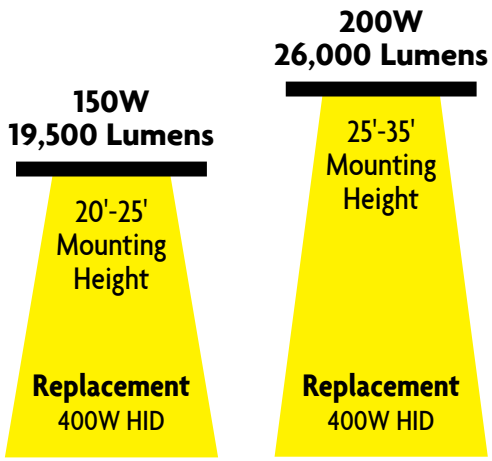
LED High Bay Fixture

SPLASHDOWN SERIES WITH MOTION SENSOR

GENERAL SPECIFICATIONS

Input Voltage, Frequency: 120-277V, 50/60Hz
Power Factor, THD %: >0.9, <20%
Surge Protection: 6kV
Functional Rated Life (L70): 50,000 hours
Beam Angle: 120°
CRI: 80
CCT: 5000K
Color: White
Ambient Operating Temperature: -40°F to 140°F
Unit Weight: 12.3 Lbs.

MOUNTING HEIGHT & REPLACEMENT



ITEM SPECIFICATIONS / ORDER INFO

Catalog Number	Order Code	UPC	Lumens	Input Amps 120V/277V	Wattage	Lumens Per Watt	Replacement HID Wattage*	NSF	DLC ID	Case Qty
F-LUHB/150/50K/WD/MS	74395	751338032262	19,500	1.65/0.85	150W	130	400W	Y	PLWZJ3M430MF	1
F-LUHB/200/50K/WD/MS	74396	751338032279	26,000	1.8/0.9	200W	130	400W	Y	PLTSAXTV4GW6	1

NOMENCLATURE

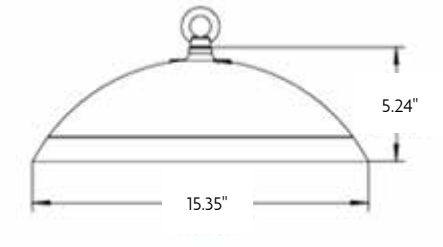
Example: F-LUHB/150/50K/WD/MS

F = Fixture / **LUHB** = LED High Bay / **150** = 150W / **50K** = 5000K / **WD** = Wash Down / **MS** = Motion Sensor
200 = 200W

ENERGY SAVINGS

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

PRODUCT DIMENSIONS / LINE DRAWING



NOTES:

*HID replacement and recommended mounting height may vary and depend on application required illuminance.

Specifications subject to change without notice. Replacement wattage shown depends on application and fixture.

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.

WARNING: Some products included in this specification sheet may be subject to the warning requirements of California's Proposition 65. Please refer to your product packaging for more information.

Revised November 2020

Job Name/Title:_____Catalog Number_____

Contractor:_____Notes:_____

LED High Bay Fixture

SPLASHDOWN SERIES WITH MOTION SENSOR

REMOTE PROGRAMMER

Catalog Number	Order Code	UPC
F-LUHB/WD/RC	74390	751338033757

(Order 1 per project)

MOTION SENSOR PRE-PROGRAMMED SETTINGS				
Detection Area	**Hold time**	**Stand-by Dimming Level**	**Stand-by Dimming Period**	**Daylight Sensor**
50%	1 Minute	30%	Infinity	Disabled

SAMPLE APPLICATION

Sample Application	Detection Area	Hold Time	Stand-by Level	Stand-by Period	Daylight Threshold	Comments
Warehouse (no skylights)	100%	3 minutes	10%	30 minutes	Disable	With the assumption that personnel will only be in an area briefly, the hold time is short and the standby level is set low for maximum savings. After 30 minutes, the area will go to off, ensuring that the lights turn off when the facility goes completely vacant.
Warehouse (with skylights)	100%	3 minutes	10%	30 minutes	80 LUX	Same as above, but with the daylight threshold enables so that the lights will turn off when daylight is available. The threshold could be set to lower or higher levels according to the specific needs.
Food handling area	100%	20 minutes	30%	30 minutes	Disable	With the assumption that personnel may spend an extended period of time in a location without moving around a lot, the hold time is relatively long. The stand-by level is set higher so that areas adjacent to the work area are more fully lit. With the 30 minute stand-by time, the area will eventually turn off fully after workers have vacated.
24-hour factory	75%	30 minutes	20%	+ Infinity	Disable	The detection area is set 75% (or perhaps even lower) so that adjacent areas aren't unnecessarily lit. Because workers may be stationary for extended times, the hold time is set to 30 minutes. Because the facility never goes completely vacant, the stand-by period is set to infinity. The facility will never go dark - it will remain at 20% in any area that is vacant.

FIXTURE CAPABILITIES

Detection Area	Hold Time	Stand-by Level	Stand-by Period	Daylight Threshold
100%, 75%, 50%, 25%	30 min, 20 min, 10 min, 5 min, 3 min, 1 min, 30 sec, 5 sec	50%, 30%, 20%, 10%	30 min, 10 min, 5 min, 1 min, 30 sec, 10 sec, 0 sec	Disabled, 120 lux, 80 lux, 50 lux, 30 lux, 10 lux, 2 lux
Sets the size of the detection area	The time period that the fixture will remain at full after motion is no longer detected	The level that the fixture goes to after the hold time is complete. If the standby period is 0 sec, the fixture will turn off	The time period that the fixture will remain at the standby level before turning off. The standby period starts after the hold period	The light level above which the fixture will turn off and stay off regardless of motion. Typically only used in outdoor or other locations with substantial natural light

Revised November 2020

Job Name/Title:_____Catalog Number_____

Contractor:_____Notes:_____

LED High Bay Fixture

SPLASHDOWN SERIES WITH MOTION SENSOR

REMOTE CONTROL INSTRUCTIONS

ON/OFF

Press “ON/OFF”, and light will turn on or off.
*Press “Auto Mode”, “Reset” or “Scene mode” buttons to quit from this mode.

Detection area

Press to select “detection range” as
100% / 75% / 50% / 25%.

Hold-time

Press to set “hold-time” as
5s / 30s / 1 min / 3 min / 5 min / 10 min /20 min/ 30 min.

Stand-by dimming level

Press to select “stand-by dimming level” as
10% / 20% / 30% / 50%.

Stand-by period

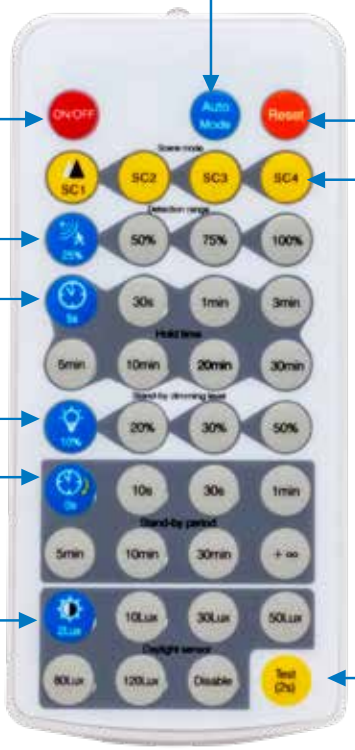
Press to select “stand-by period” as
0s / 10s / 30s / 1min / 5min / 10min / 30min / +∞.

Note: “0s” means no standby period; “+∞” means unlimited standby period.

Daylight threshold

Press to select “daylight sensor” threshold as
2Lux / 10Lux / 30Lux / 50Lux / 80Lux /120Lux / disable.

Note: setting to "disable" means light will be turned on once sensor detects movement, regardless of the ambient lux.



Auto Mode

Press to “Auto Mode” to revert back to previous fixture settings.

Reset

Sets unit for 100% detection range,
5S hold time, no stand-by
time and daylight threshold disabled.

Scene Mode (Preset Programming)

Scene mode	Detection area	Hold-time	Daylight threshold	Stand-by period	Stand-by dimming level
SC1	100%	30s	2Lux	1min	10%
SC2	100%	5min	10Lux	10min	10%
SC3	100%	10min	50Lux	30min	10%
SC4	100%	30min	Disable	+∞	10%

The button “Test (2s)” is for testing purpose after commissioning. When pressing this button, the sensor goes to test mode (hold time is only 2s) automatically, stand-by period and daylight sensor are disabled.

This mode can be ended by pressing "reset", “Auto mode”, "scene mode" or "hold time". The sensor setting is changed accordingly.

Notes

1. When using ON/OFF button, this will override any other programming. Be sure to reactivate sensor by pressing a scene button, auto mode, etc.
2. Press "Scene Mode" to choose one of the existing four programming presets.
3. When using the remote control, light will flicker to show the instruction was received.
4. Every function change will be automatically saved.

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Job Name/Title:_____Catalog Number_____

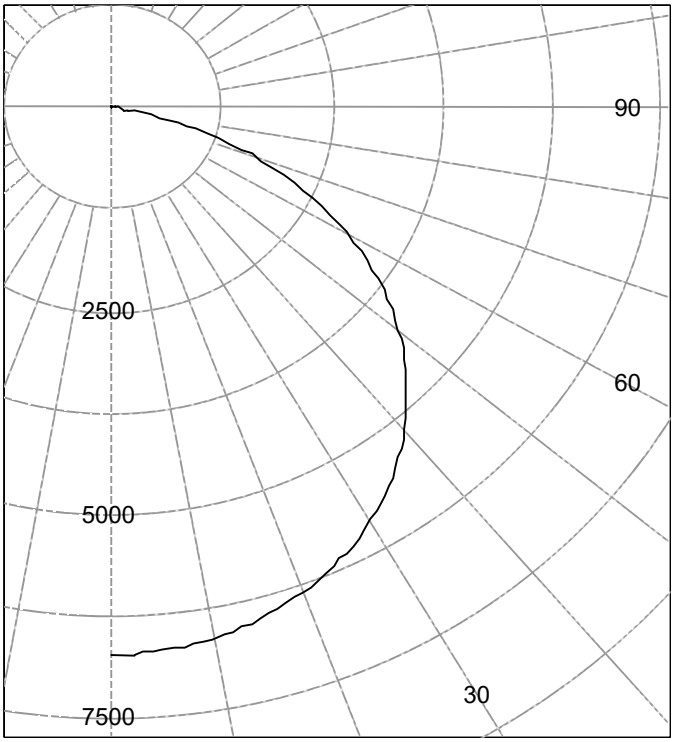
Contractor:_____Notes:_____

LED High Bay Fixture

SPLASHDOWN SERIES WITH MOTION SENSOR

F-LUHB/150/50K/WD/MS

Legend: All planes - Black (cd)



(Rotational symmetry)

AVERAGE LUMINANCE (cd / m^2)

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

Revised February 2020

Job Name/Title:_____Catalog Number_____

Contractor:_____Notes:_____

LED High Bay Fixture

SPLASHDOWN SERIES WITH MOTION SENSOR

F-LUHB/150/50K/WD/MS

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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Job Name/Title:_____Catalog Number_____

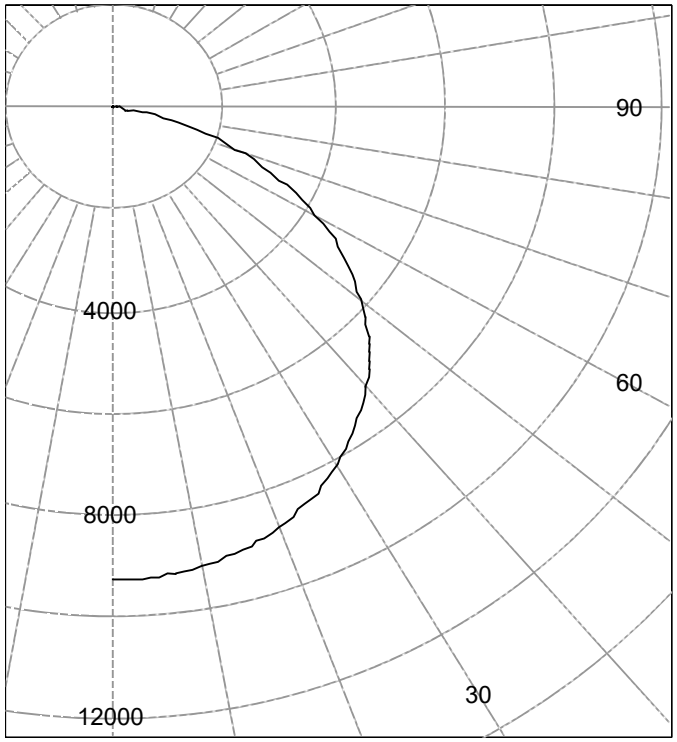
Contractor:_____Notes:_____

LED High Bay Fixture

SPLASHDOWN SERIES WITH MOTION SENSOR

F-LUHB/200/50K/WD/MS

Legend: All planes - Black (cd)



(Rotational symmetry)

AVERAGE LUMINANCE (cd / m^2)

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

Revised February 2020

Job Name/Title:_____Catalog Number_____

Contractor:_____Notes:_____

LED High Bay Fixture

SPLASHDOWN SERIES WITH MOTION SENSOR

F-LUHB/200/50K/WD/MS

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
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	69	64	73	68	63	71	66	62	60
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9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	37	31	26	24

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Circle of Light Plot

Height(ft)	Illuminance at Nadir (fc)	Beam Width (across 50% Nadir Illum) 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

Revised February 2020