

HBL FLOOD SERIES LED FLOOD LIGHT



HUBBELL
Industrial Lighting

CAT.#	APPROVALS
JOB	TYPE

SPECIFICATIONS

Applications -

The HBL Flood Light is made to do those tough industrial flood lighting jobs. With three lumen packages and a Spot and Flood beam, it has the flexibility to fit all of your industrial flood lighting applications. The rugged low copper alloy aluminum die-cast design coupled with the heavy duty yoke and the long life of the LEDs make this a flood light that is especially suited to today's harsh industrial environments.

Construction -

- High performance LED design delivering up to 100 lumens per watt
- Specialized thermal management allows up to 55°C ambient temperature ratings
- LED count ranges from 72 to 60 to 48 and all three LED counts are driven at 700 mA
- Minimum operating temperature of -40°C
- **Fixture weight:** 29 lbs. **Shipped weight:** 33 lbs.
- Vibration tested to 3G for 100K cycles

Optics/Electrical System -

- Custom engineered LED optics providing optimally controlled and evenly distributed light
- Three distinct distributions: narrow and wide
- Sealed optic for long life and durability

LED Light Engine -

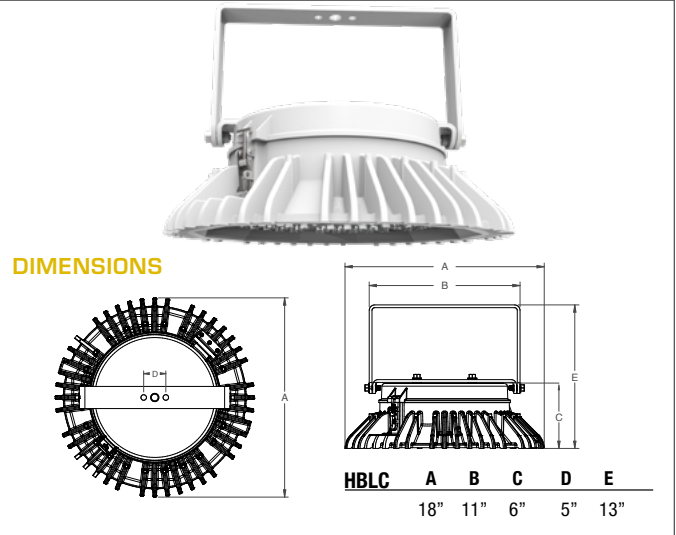
- High output LEDs
- 60,000 hours, long life at L70
- 2700-5000°K Color Temperature - See ordering logic for more information
- 68 CRI

LED Driver -

- Circuit Loading Information
- 1.50 amps @ 120v 60 Hz
- 0.75 amps @ 240v 60 Hz
- 0.65 amps @ 277v 60 Hz
- Power factor greater than 0.90
- Standard 0 to 10v dimmable drivers
- FCC 47CFR Part 15 Class B Compliant

Thermal Performance -

- 48 LED units @ -40°C TO 55°C
- 60 LED units @ -40°C TO 50°C
- 72 LED units @ -40°C TO 45°C



Certifications -

- CSA tested to UL1598 Wet Location, IP66
- Wet Location listed up to 90 degrees
- Damp location listed at greater than 90 degrees mounting angle
- IP66 with factory installed ENCG option
- This product qualifies as a "designated country construction material" per FAR 52.225-11 Buy American-Construction Materials under Trade Agreements effective 06/01/2020. [See Buy American Solutions](#)

Warranty -

- Five years from date of purchase



ORDERING INFORMATION

ORDERING EXAMPLE: HBL-72LU-Y2-5K-N-070-ND-WH

HBL	-		-	Y		-	2	-		-		-	070	-		-		-	
Series		# of LEDs	Voltage	Mount	Hub	Color Temp	Distribution	Drive Current	Dimming	Colors	Options								

SERIES

HBL	High Bay HBL Series
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NUMBER OF LEDs

48L	48 High Performance LEDs
60L	60 High Performance LEDs
72L	72 High Performance LEDs

VOLTAGE

U	120 - 277V
1	120V
2	208V
3	240V
4	277V

Note: Voltage must be specified for Fusing and Occupancy Sensor compatibility.

MOUNT

Y	Yoke
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HUB

2	3/4"
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COLOR TEMPERATURE

27K	2700° Kelvin
3K	3000° Kelvin
35K	3500° Kelvin
4K	4000° Kelvin
5K	5000° Kelvin

Note: See Color Temperature De-Rating factors table on pg.2

DISTRIBUTION

N	Narrow
W	Wide

DRIVE CURRENT

070	700 MA
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DIMMING

CD	Continuous Dimming
ND	Non Dimming

COLORS

BL	Black
GR	Grey
WH	White

OPTIONS

F[x]	Fusing (replace "x" with voltage)
ENCA	Frosted Acrylic Protective Lens
ENCG	Glass Protective Lens
WG	Zinc Plated Wire Guard
SL	Sag Lens Translucent white
FP	UL Sanitation for Food Processing

Note: 1.W/H only available with 120V or 277V
2.-F(X) Fixture fuse. Replace X with voltage:
1-120V, 2-208V, 3-240V, 4-277V

ACCESSORIES (order as separate part #)

LG2S	DUAL-LITE 250 VA LiteGear Emergency Lighting Inverter
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LED SYSTEM INFORMATION

CATALOG NUMBER	NUMBER OF LED's	COLOR TEMPERATURE	INPUT WATTS	TOTAL LUMENS	LUMENS PER WATT	CRI	AMBIENT TEMPERATURE
HBL-48LU-5K-N-070-WH	48	5000°K	112	11206	100	68	55°C
HBL-48LU-5K-W-070-WH				10778	96		
HBL-60LU-5K-N-070-WH	60		139	14007	101		50°C
HBL-60LU-5K-W-070-WH				13472	97		
HBL-72LU-5K-N-070-WH	72		169	16808	99		45°C
HBL-72LU-5K-W-070-WH				16166	96		

COLOR TEMPERATURE DE-RATING FACTORS

NUMBER OF LEDS	48			60			72		
	Narrow	Aisle	Wide	Narrow	Aisle	Wide	Narrow	Aisle	Wide
5000K	11206	10213	10778	14007	12776	13472	16808	15319	16166
4000K	9301	8477	8946	11626	10604	11182	13951	12715	13418
3500K	9189	8375	8838	11486	10476	11047	13783	12562	13256
3000K	8853	8068	8515	11066	10093	10643	13278	12102	12771
2700K	8517	7762	8191	10645	9710	10239	12774	11642	12286

PHOTOMETRIC REPORT

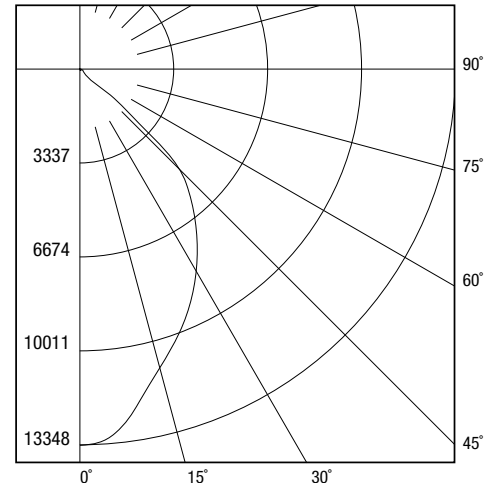
REPORT NUMBER: HBL72LU5KN070

LUMINANCE DATA (cd/sq.m)

ANGLE IN DEGREES	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
45	124163	108788	108147
55	8759	10769	10159
65	4823	4239	6675
75	3500	4694	3898
85	4252	4489	4961

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0-20	4305.42	25.60
0-30	8502.49	50.50
0-40	12880.45	76.50
0-60	16619.62	98.70
0-80	16809.51	99.80
0-90	16841.06	100.00
10-90	15624.82	92.80
20-40	8575.03	50.90
20-50	11872.07	70.50
40-70	3847.18	22.80
60-80	189.90	1.10
70-80	81.88	0.50
80-90	31.55	0.20
0-180	16844.05	100.00



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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92			
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83			
3	99	92	86	82	97	91	85	81	88	83	80	85	82	78	83	80	77	75			
4	93	85	78	73	91	83	77	73	81	76	72	79	75	71	77	73	70	68			
5	88	78	71	66	86	77	71	66	75	69	65	73	68	65	72	67	64	62			
6	82	72	65	60	81	71	65	60	69	64	59	68	63	59	67	62	58	57			
7	77	67	60	55	76	66	59	55	64	59	54	63	58	54	62	57	54	52			
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44			
10	65	54	47	43	64	53	47	43	52	47	43	52	46	42	51	46	42	41			

ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY.

THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.