HIGHBAY HBL SERIES
SEVERE LOCATION

HUBBELL Industrial Lighting

LINK TO PRODUCT PAGE

CAT.#	APPROVALS
JOB	TYPE

SPECIFICATIONS

Applications

The NEW Hubbell LED Highbay is designed to efficiently light any large interior space such as heavy industrial settings, warehouses, gyms, churches, swimming pools/natatorium and shopping malls

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
- Meets DLC compliance standards
- **Fixture weight**: 29 lbs. **Shipped weight**: 33 lbs.

Optics/Electrical System -

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

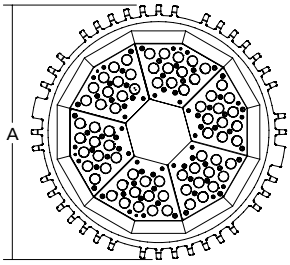
LED Light Engine -

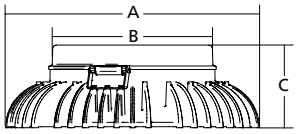
- High output LEDs
- 100,000 hours, long life at L70
- 2700-5000°K Color Temperature - See ordering logic for more information
- 68 CRI
- Surge protection is included standard

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

DIMENSIONS





HBL	A	B	C
	18"	11"	6"

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

Listings -

- CSA tested to UL1598 Wet Location, IP56, DLC Approved

Warranty -

- Five years from date of purchase

DESIGNLIGHTS CONSORTIUM · DUALITE LiteGear® COMPATIBLE · WiHUBB ENABLED · C SA US

Lighting Facts labels are available for specific SKUs. Contact factory for more information.

ORDERING INFORMATION

ORDERING EXAMPLE: HBL-72LU-A2-5K-N-070-ND-WH

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

SERIES

HBL	Highbay HBL Series

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

A	Pendant
C	Cone
S	Straight stanchion
X	Ceiling
Y	Yoke

HUB

2	¾"
Available with A, C, X and Y Mount	
3	1"
Available with A, C, X Mount	
4	1 ¼"
5	1 ½"
Available with S Mount	

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
A	Aisle

DRIVE CURRENT

070	700 MA

DIMMING

CD	Continous 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
OCS360	360° Lens Occupancy Sensor
OCSA	Aisle Lens Occupancy Sensor
WG	Bottom Wire Guard
WIH	Wireless Control System

Notes: 1.OCS unavailable with ENCA or ENCG. OCS and WIH options can not be specified together
2.WIH only available with 120V or 277V
3.-F(X) Fixture fuse. Replace X with voltage: 1-120V, 2-208V, 3-240V, 4-277V

ACCESSORIES (order as separate part #)

HOOK/LOOP	Fixture Mounting Hook
BLA-C4HLPX	Cord and Plug Set
LG2S	DUAL-LITE 250 VA LiteGear Emergency Lighting Inverter

HIGHBAY HBL SERIES – SEVERE LOCATION

MOUNTING OPTIONS

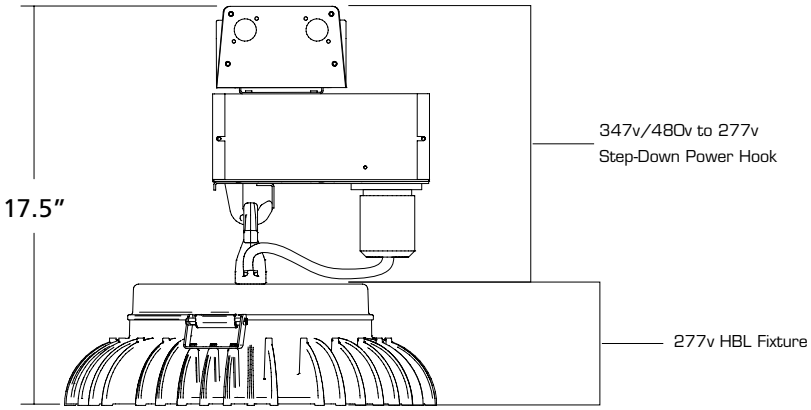
PENDANT MOUNT

CONE MOUNT

CEILING MOUNT

STANCHION (0˚) MOUNT

347V/480V MOUNTING - Consult factory for availability.



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-48LU-5K-A-070-WH				10213	91		
HBL-60LU-5K-N-070-WH	60		139	14007	101		50°C
HBL-60LU-5K-W-070-WH				13472	97		
HBL-60LU-5K-A-070-WH				12776	92		
HBL-72LU-5K-N-070-WH	72		169	16808	99		45°C
HBL-72LU-5K-W-070-WH				16166	96		
HBL-72LU-5K-A-070-WH				15319	91		

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

HIGHBAY HBL SERIES – SEVERE LOCATION

ORDERING INFORMATION

OPTIONS FOR HBL LED HIGHBAY SERIES

Factory installed – order with fixture by adding suffix.

CORD, HOOK/LOOP

-C4HL	4' Cord, Hook/Loop
-C6HL	6' Cord, Hook/Loop
-C8HL	8' Cord, Hook/Loop
-C10HL	10' Cord, Hook/Loop
-C12HL	12' Cord, Hook/Loop

CORD, HOOK/LOOP & 20A PLUG

	Length	x= 120V	208V	240V	277V
-C4HLP (X)	4'	1	2	3	4
-C6HLP (X)	6'	1	2	3	4
-C8HLP (X)	8'	1	2	3	4
-C10HLP (X)	10'	1	2	3	4
-C12HLP (X)	12'	1	2	3	4

CORD, HOOK/LOOP & 15A PLUG

	Length	x= 120V	208V	240V	277V
-C4HLP(X)-15a	4'	1	2	3	4
-C6HLP(X)-15a	6'	1	2	3	4
-C8HLP(X)-15a	8'	1	2	3	4
-C10HLP(X)-15a	10'	1	2	3	4
-C12HLP(X)-15a	12'	1	2	3	4

NOTE: 1. Plugs are twist-lock® type as manufactured by hubbell wiring devices

2. Pendant or Cone Mount Only - A and C Mount Only with 2 Hubb (3/4")

WI-HUBB

WIH	Wireless control system

WARNING: Improper selection, installation, operation, servicing, removal, and disposal of lighting products may create serious hazardous including fires, explosions, shock, burns, cuts, impaired vision, falling objects, and environmental contamination. Reduce risks by using luminaire retainers/safety cables of equipment, the guidance of licensed professionals throughout the product life cycle, and following individual product, component, and accessory safety instructions and labels. We offer this in the interest of safety for our customers, who may not be aware of the potentially high risk involved in the misuse of these products.

MOUNTING ACCESSORIES

(order separately)

Plugs are twist-lock® type as manufactured by hubbell wiring devices.

BLA-C4HLP-1	4' Cord, Hook/Loop and 120V 20A Twist-Lock® Plug
BLA-C4HLP-4	4' Cord, Hook/Loop and 277V 20A Twist-Lock® Plug
BLA-C4HLP1-15A	4' Cord, Hook/Loop and 120V 15A Twist-Lock® Plug
BLA-C4HLP4-15A	4' Cord, Hook/Loop and 277V 15A Twist-Lock® Plug
HOOK/LOOP[1]	Hook - cast aluminum 3/4" NPS male; includes safety screw; converts to Loop with strap included
H34AL34[1]	Swivel Aligner - complete with box for thru wiring; all hubs tapped for 3/4" conduit - 25° swivel

1 Cord, Hook/Loop and Plug must be added to fixture as option, example: -c2hlp4.

NOTE: Cord used with above accessories is 16/3 SOWA 105°C NEMA configurations.

HIGHBAY HBL SERIES – SEVERE LOCATION

PHOTOMETRIC REPORT

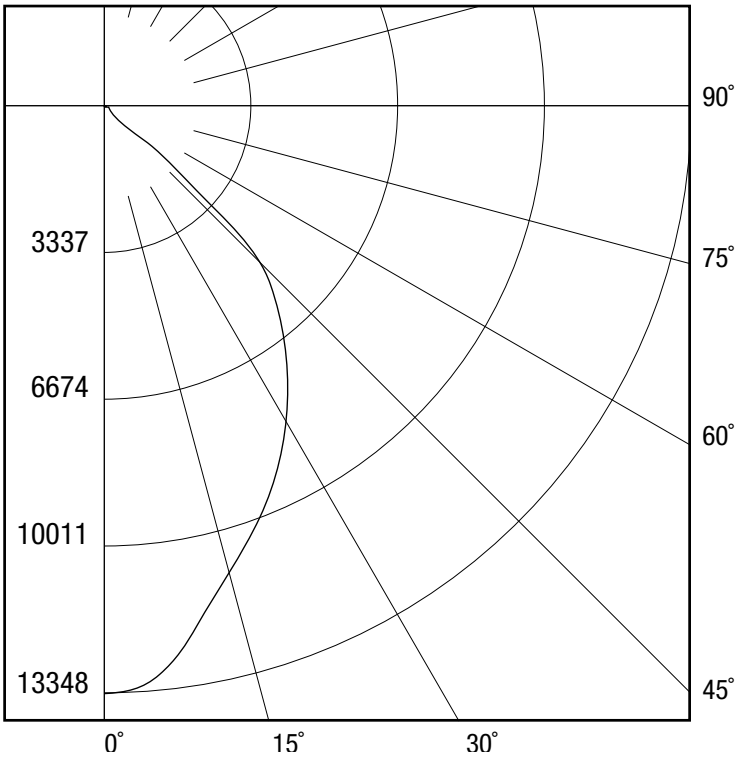
REPORT NUMBER: HBL72LU5KN070

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.

For more information visit our web site: http://www.hubbellindustrial.com/
Phone: 1-864-678-1000

HUBBELL® Industrial Lighting