

# HBLHA SERIES HIGH AMBIENT LED HIGH BAY



CAT.#	APPROVALS
JOB	TYPE

## SPECIFICATIONS

### Applications

The Hubbell LED High Bay 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 65°C ambient temperature rating
- 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: 30 lbs. Shipped weight: 36 lbs.

### Optics/Electrical System -

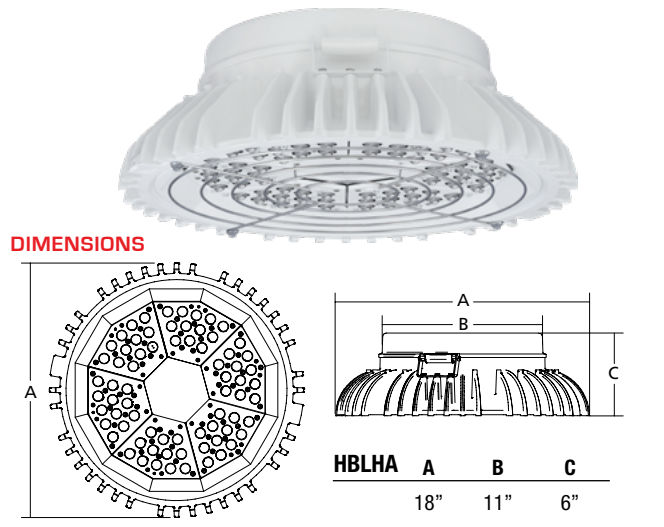
- Custom engineered LED optics providing optimally controlled and evenly distributed light
- Three distinct distributions: aisle, narrow and wide
- Sealed optic for long life and durability

### LED Light Engine -

- High output LEDs
- 60,000 hours, long life at L70
- 2700-5000°K Color Temperature - See ordering logic for more information
- 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
- FCC 47CFR Part 15 Class B Compliant



### DIMENSIONS

HBLHA	A	B	C
	18"	11"	6"

### Thermal Performance -

- 48 LED units @ -40-C TO 65-C
- 60 LED units @ -40-C TO 65-C
- 72 LED units @ -40-C TO 65° C

### Listings -

- UL Sanitation Certified per NSF Standards
- CSA tested to UL1598 Wet Location, IP56
- IP66 with factory installed ENCG option

### Warranty -

- Five years from date of purchase



## ORDERING INFORMATION

ORDERING EXAMPLE: HBLHA-72L-U-A-2-5K-N-070-WH

HBLHA			-		-		-		-	070	-		WG	-	
Series	# of LEDs	Voltage		Mount	Hub	Color Temp	Distribution	Drive Current		Colors	Wire Guard		Options		

### SERIES

HBLHA High Bay HBLHA Series

### NUMBER OF LEDS

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

Note: -72L configurations must be mounted at least 6" below the finished ceiling for proper thermal performance. -48L and -60L configurations are approved for all available mounting configurations. Mounting restrictions are not applicable when the fixture is used in a cooler or freezer.

### 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	3/4"
3	1"
4	1 1/4"
5	1 1/2"

Available with A, C, X and Y Mount

Available with A, C, X Mount

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

### COLORS

BL	Black
GR	Grey
WH	White

### WIRE GUARD

WG Mandatory Zinc Plated Wire Guard

### OPTIONS

TLRX	Top Luminaire Retainer
F(x)	Fusing (replace "x" with voltage) - Refer to pg.3 for more info.
ENCA	Acrylic Protective Lens
ENCG	Glass Protective Lens

Notes: 1.OCS unavailable with ENCA or ENCG2.

### ACCESSORIES (order as separate part #)

TLRX	Top Luminaire Retainer
HOOK/LOOP	Fixture Mounting Hook
BLA-C4HLPX	Cord and Plug Set

## MOUNTING OPTIONS



PENDANT MOUNT



CONE MOUNT



CEILING MOUNT



STANCHION (0°) MOUNT

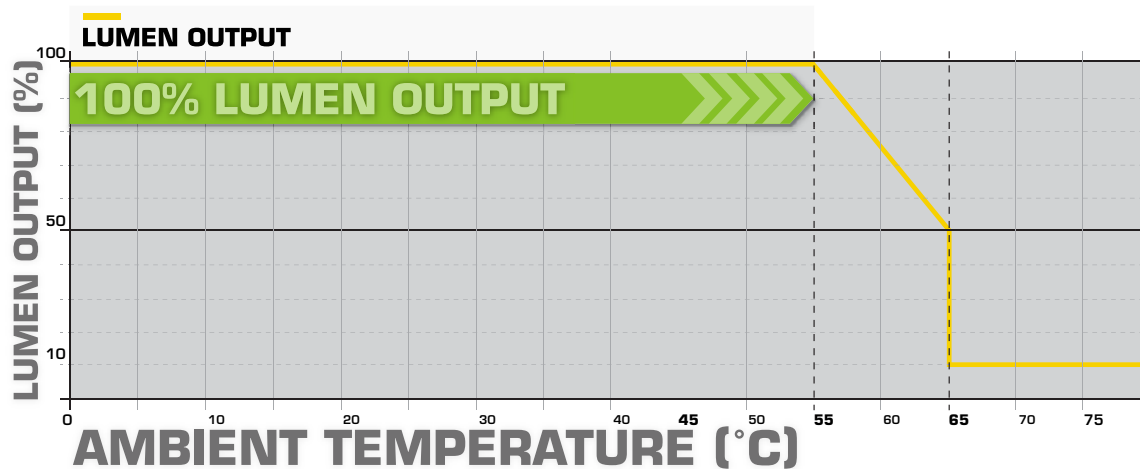
## LED SYSTEM INFORMATION

CATALOG NUMBER	NUMBER OF LED's	COLOR TEMPERATURE	INPUT WATTS	TOTAL LUMENS	LUMENS PER WATT	CRI	AMBIENT TEMPERATURE		
HBLHA-48LU-5K-N-070-WH	48	5000°K	112	11206	100	68	65°C		
HBLHA-48LU-5K-W-070-WH				10778	96				
HBLHA-48LU-5K-A-070-WH				10213	91				
HBLHA-60LU-5K-N-070-WH	60		139	14007	101		68	65°C	
HBLHA-60LU-5K-W-070-WH				13472	97				
HBLHA-60LU-5K-A-070-WH				12776	92				
HBLHA-72LU-5K-N-070-WH	72		169	16808	16808		99	68	65°C
HBLHA-72LU-5K-W-070-WH					16166		96		
HBLHA-72LU-5K-A-070-WH					15319		91		

## COLOR TEMPERATURE DE-RATING FACTORS

NUMBER OF LEDS	5000K CRI	4000K CRI	3500K CRI	3000K CRI	2700K CRI
48	1.00 68	0.74 80	0.77 80	0.74 80	0.72 80
60	1.00 68	0.74 80	0.77 80	0.74 80	0.72 80
72	1.00 68	0.74 80	0.77 80	0.74 80	0.72 80

## THERMAL PERFORMANCE MATRIX



**ORDERING INFORMATION**

**OPTIONS FOR**

**HBLHA LED HIGH BAY 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

Note: plugs are twist-lock® type as manufactured by hubbell wiring devices

**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
-C4HLPx15a	4'	1	2	3	4	
-C6HLPx15a	6'	1	2	3	4	
-C8HLPx15a	8'	1	2	3	4	
-C10HLPx15a	10'		1	2	3	4
-C12HLPx15a	12'		1	2	3	4

-C4HLP1-15a	4' Cord, Hook/Loop & 15A 120V Plug
-C6HLP1-15a	6' Cord, Hook/Loop & 15A 120V Plug
-C8HLP1-15a	8' Cord, Hook/Loop & 15A 120V Plug
-C10HLP1-15a	10' Cord, Hook/Loop & 15A 120V Plug
-C12HLP1-15a	12' Cord, Hook/Loop & 15A 120V Plug
-C4HLP4-15a	4' Cord, Hook/Loop & 15A 277V Plug
-C6HLP4-15a	6' Cord, Hook/Loop & 15A 277V Plug
-C8HLP4-15a	8' Cord, Hook/Loop & 15A 277V Plug
-C10HLP4-15a	10' Cord, Hook/Loop & 15A 277V Plug

-F(X) Fixture fuse. Replace X with voltage: 1-120V, 2-208V, 3-240V, 4-277V

1.Luminaire retainers/safety cables reduce risk of equipment falling

**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 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/LOOP1	Hook - cast aluminum 3/4" NPS male; includes safety screw; converts to Loop with strap included

**PHOTOMETRIC REPORT**

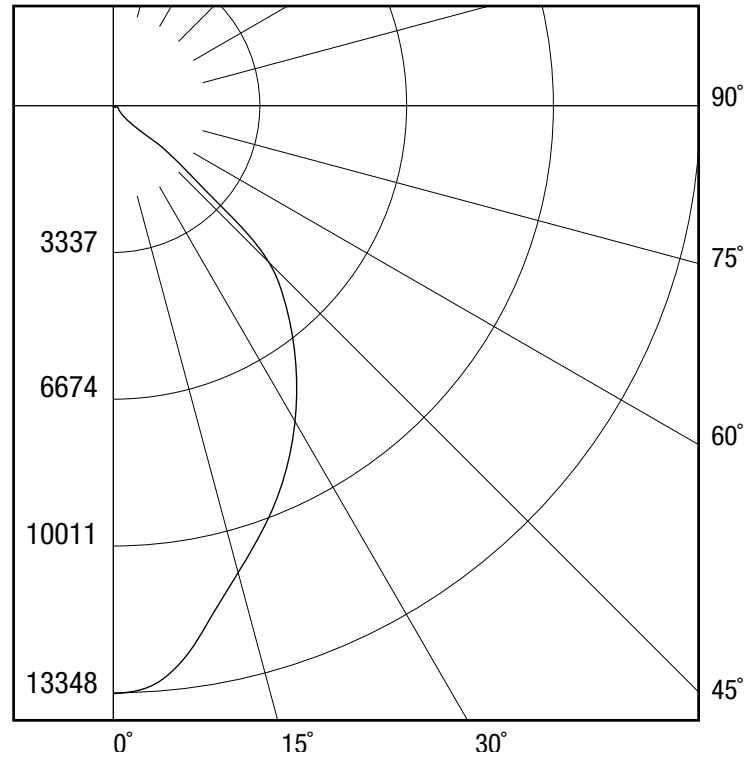
REPORT NUMBER: HBLHA72LU5KN070

**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
	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.