# Columbia
## LIGHTING

| | | |
|---|---|---|
| DATE: | LOCATION: | |
| TYPE: | PROJECT: | |
| CATALOG #: | | |

# HBL
## HEAVY INDUSTRIAL HIGH BAY

## FEATURES

- Efficiently lights any large interior space such as heavy industrial settings, warehouses, gyms, churches, swimming pools/natatorium and shopping malls

- High performance LED design delivering up to 100 lumens per watt

- IP65/66 rated

- UL Sanitation Certified per NSF Standards

- Ambient Temperature range from -40°C to 55°C

- Three distinct distributions: aisle, narrow and wide

CSA C US · IP65 · IP66 · UL Sanitation · BUY AMERICAN SOLUTIONS — See Certification Specifications

## SPECIFICATIONS

### CONSTRUCTION
- LED count ranges from 72 to 60 to 48 and all three LED counts are driven at 700 mA

- Ambient limited to 35°C for Ceiling Mount (X) option

- Fixture weight: 29 lbs. Shipped weight: 33 lbs.

### OPTICS
- Custom engineered LED optics providing optimally controlled and evenly distributed light

- Sealed optic for long life and durability

- 70 CRI

### ELECTRICAL
- High output LEDs

- 60,000 hours, long life at L70

- Surge protection is included standard

- 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 0–10V dimmable drivers

- FCC 47CFR Part 15 Class B Compliant

- 48 LED units @ -40˚C TO 55˚C

- 60 LED units @ -40˚C TO 50˚C

- 72 LED units @ -40˚C TO 45˚C

### CONTROLS
- Dimming control sensor for occupancy and ambient light level detection

### CERTIFICATIONS
- CSA tested to UL 1598 Wet Location, IP65

- UL Sanitation Certified per NSF Standards

- 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.

### WARRANTY
- 5 year warranty

| KEY DATA | |
|---|---|
| Lumen Range | 10213–16808 |
| Wattage Range | 112–169 |
| Efficacy Range (LPW) | 91–101 |
| Reported Life (Hours) | 60,000/L70 |

## Current

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| DATE: | LOCATION: |
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HEAVY INDUSTRIAL HIGH BAY

## ORDERING GUIDE

**Example:** HBL–72LU–A2–5K–N–070–ND–WH

**CATALOG #**

| HBL | — | # of LEDs | | Voltage [1] | | — | Mount | Hub | — | Color Temp [6] | — | Distribution | — | 070 | — | DImming | — |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Model** | | **# of LEDs** | | **Voltage [1]** | | | **Mount** | **Hub** | | **Color Temp [6]** | | **Distribution** | | **Drive Current** | | **DImming** | |
| **HBL** Severe Location High Bay | | **48L** 48 High Performance LEDs | | **U** | 120–277V | | **A** Pendant | **2** ¾" [3] | | **27K** 2700K | | **N** Narrow | | **070** 700 mA | | **CD** Continuous Dimming | |
| | | **60L** 60 High Performance LEDs | | **1** | 120V | | **C** Cone | **3** 1" [4] | | **3K** 3000K | | **W** Wide | | | | **ND** Non Dimming | |
| | | **72L** 72 High Performance LEDs | | **2** | 208V | | **S** Straight stanchion | **4** 1¼" | | **35K** 3500K | | **A** Aisle | | | | | |
| | | | | **3** | 240V | | **X** Ceiling [2] | **5** 1½" [5] | | **4K** 4000K | | | | | | | |
| | | | | **4** | 277V | | **Y** Yoke | | | **5K** 5000K | | | | | | | |

| Colors | | — | Options | |
|---|---|---|---|---|
| **Colors** | | | **Options** | |
| **BL** | Black | | **F(x)** | Fusing (replace "x" with voltage) [7] |
| **GR** | Gray | | **ENCA** | Frosted Acrylic Protective Lens |
| **WH** | White | | **ENCG** | Glass Protective Lens |
| | | | **OCS360** | Occupancy Detector 360° Pattern [1,8] |
| | | | **OCSA** | Occupancy Detector Aisle Pattern [1,8] |
| | | | **WG** | Zinc Plated Wire Guard |
| | | | **SL** | Sag Lens Translucent white |
| | | | **FP** | UL Sanitation for Food Processing |
| | | | **TLRX** | Top Luminaire Retainer |

| Accessories (Order Separately) | |
|---|---|
| ☐ **HOOK/LOOP** | Fixture Mounting Hook |
| ☐ **BLA-C4HLPX** | Cord and Plug Set |
| ☐ **LG250** | Dual-Lite 250 VA LiteGear® Emergency Lighting Inverter |
| ☐ **TLRX** | Top Luminaire Retainer |

Notes:
1. Voltage must be specified for Fusing and Occupancy Sensor compatibility
2. Ceiling Mount limited to 35°C ambient conditions
3. Available with A, C, X and Y Mount
4. Available with A, C, X Mount
5. Available with S Mount
6. See Color Temp De-Rating factors table on pg.3
7. F(X) Fixture fuse. Replace X with voltage:
   1 = 120V, 2 = 208V, 3 = 240V, 4 = 277V
8. OCS unavailable with SL, ENCA or ENCG

## ORDERING INFORMATION

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. -A (Pendants) and -C (Cone) mount only with option 2 Hubb (¾")

| 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 ¾" NPS male; includes safety screw; converts to Loop with strap included |
| [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. | |

**WARNING:** Improper selection, installation, operation, servicing, removal, and disposal of lighting products may create serious hazards 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.
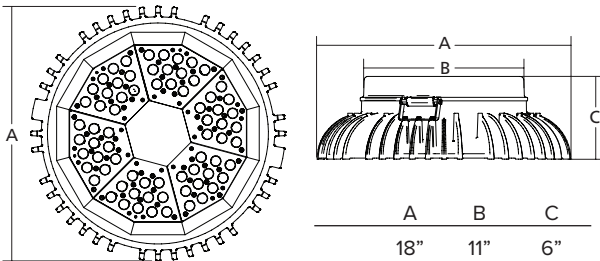
**COL_HBL_spec**

# Columbia
## L I G H T I N G

DATE: | LOCATION: |
TYPE: | PROJECT: |
CATALOG #: |

## HBL
### HEAVY INDUSTRIAL HIGH BAY

## DELIVERED LUMENS

| Fixture | Number of LEDs | Color Temp | Input Watts | Total Lumens | Lumens Per Watt | CRI | Ambient Temp |
|---|---|---|---|---|---|---|---|
| HBL-48LU-5K-N-070-WH | | | | 11206 | 100 | | |
| HBL-48LU-5K-W-070-WH | 48 | | 112 | 10778 | 96 | | 55°C |
| HBL-48LU-5K-A-070-WH | | | | 10213 | 91 | | |
| HBL-60LU-5K-N-070-WH | | | | 14007 | 101 | | |
| HBL-60LU-5K-W-070-WH | 60 | 5000K | 139 | 13472 | 97 | 70 | 50°C |
| HBL-60LU-5K-A-070-WH | | | | 12776 | 92 | | |
| HBL-72LU-5K-N-070-WH | | | | 16808 | 99 | | |
| HBL-72LU-5K-W-070-WH | 72 | | 169 | 16166 | 96 | | 45°C |
| HBL-72LU-5K-A-070-WH | | | | 15319 | 91 | | |

## COLOR TEMPERATURE DE-RATING FACTORS

| Color Temp | 48 LEDs | | | 60 LEDs | | | 72 LEDs | | |
|---|---|---|---|---|---|---|---|---|---|
| | 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 |

## DIMENSIONS



| A | B | C |
|---|---|---|
| 18" | 11" | 6" |

## PHOTOMETRY

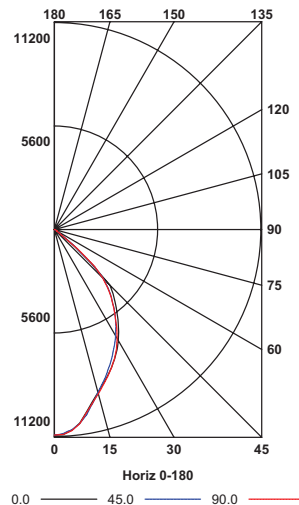### HBL-72LU-5K-N-070-WH

#### LUMINAIRE DATA

| Test No. | 5056_2 |
|---|---|
| Description | HBL Severe Location, Highbay 18" diameter LED with custom engineered TIR optics |
| Delivered Lumens | 14,063 |
| Watts | 162.00 |
| Efficacy | 87 |
| Mounting | Specialty |
| Spacing Criterion | 0° = 0.96    90° = .096 |

#### ZONAL LUMEN SUMMARY

| Zone | Lumens | % Luminaire |
|---|---|---|
| 0–30 | 7098 | 50.5 |
| 0–40 | 10751 | 76.4 |
| 0–60 | 13,876 | 98.7 |
| 0–90 | 14,061 | 100.0 |
| 0–180 | 14,063 | 100.0 |

#### POLAR GRAPH

# HBL
HEAVY INDUSTRIAL HIGH BAY

## ADDITIONAL INFORMATION

### MOUNTING OPTIONS



Pendant Mount     Cone Mount     Ceiling Mount     Stanchion (0˚) Mount     Yoke (0˚) Mount

**347V / 480V MOUNTING** — Consult factory for availability



17.5"

347V/480V to 277V
Step-Down Power Hook

277V HBL Fixture