| Project | Catalog # | Туре | |
|-------------|-----------|------|--|
| Prepared by | Notes | Date | |



Metalux

HB LED

Standard Efficacy 20" x 48" LED High Bay Efficiency Luminaire

Typical Applications

Industrial · Manufacturing

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- · Product Warranty

Product Certification







Product Features



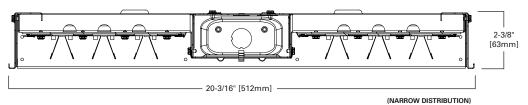


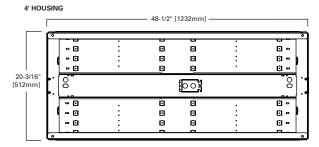


Top Product Features

- · Durable CRS and aluminum housing with white enamel finish
- · High-Performance efficacy up to 170 lm/W
- · LEDs available in 3500K, 4000K and 5000K at typical 85 CRI
- · Rated for -20°C to 55°C ambient
- · Lumen Maintenance L84 @ 60,000 hours

Dimensional and Mounting Details







Metalux **HBLED SE**

Order Information

SAMPLE ORDER NUMBER: **HBLED-LD5-18SE-W-UNV-L850-ED2-U** Includes V Hangers for rapid installation

| Series | Lamp Type | LED Lumen Output | Distribution | Shielding | Voltage | ССТ | Options (5) | Number of Relays |
|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| Series (18) | Lamp Type | LED Lumen Output | Distribution | Shielding | Voltage (1) | CCT | Emergency | Number of Relays |
| HBLED=LED High Bay Linear | LD5=LED 5.0 | 12SE=12,000 Lumens 15SE=15,000 Lumens 18SE=18,000 Lumens 24SE=24,000 Lumens 30SE=30,000 Lumens 36SE=36,000 Lumens 48SE=48,000 Lumens (19) 60SE=60,000 Lumens | N=Narrow (Aisle) W=Wide (General) | [Blank]=None A=Prismatic Acrylic Lens & Door frame (%,(%),(1),(16) CL=Clear Acrylic Lens & Door frame (%,(1),(16) A/WG=Acrylic Lens, Wireguard and Door frame (%,(1),(16) CL/WG=Clear Lens, Wireguard and Door frame (%,(1),(16) Al=Prismatic Acrylic Lens Insert (%,(9) CLI=Clear Acrylic Lens Insert (%) FLI=Frosted Lens Insert (%) POLY125/WG=Polycarbonate Lens, Wireguard and Door frame (%,(11),(16) POLY125-Polycarbonate Lens and Door frame (%,(11),(16) | 120V=120 Volt 277V=277 Volt 347V=347 Volt(^{(6, (10)} 480V=480 Volt ^{(6, (10)} UNV=Universal Voltage 120-277 UNC=Universal Voltage 347/480 ⁽⁶⁾ | 70 CRI L735=3500K L740=4000K L750=5000K 80 CRI L835=3500K L840=4000K L850=5000K | EL7W=7-watt, 120V-277V emergency battery pack installed ⁽⁴⁾ EL14W=14-watt 120V-277V emergency battery pack installed ⁽⁴⁾ GTR=Bodine Generator Transfer Device ⁽¹⁵⁾ ETRD=10ta Emergency Transfer Relay with dimming control ⁽¹⁵⁾ | 1=1 relay per driver non- dimming only 2=2 relays per driver for dimming applications |
| Notes (18) DesignLights Consortium® Qualified and classified for both DLC Standard and DLC Premium, refer to www.designlights. org for details. | | Notes (19) For 48,000 lumen package, CD option requires three drivers, ED option requires four. | | Notes (8) Refer to ambient ratings chart for temperature requirements. (9) Not available with narrow distribution (11) Not available with 485E or 60SE configurations. (16) Integrated sensor not compatible with door frame. | Notes (1) Voltage must be specified when ordered with plugs or emergency driver, (6) Not available with dual switching. (10) EM not available with 365£ 445£ or 545£ configurations at 347V or 480V). | | (4) With integral test switch/indicator/laser test. For approximate delivered lumens multiply the lumens per watt of the desired fixture by the wattage of the emergency battery pack (100 lm/W x 7-700 lumens). IES-format photometry for luminaire under emergency operation available. (5) EM options available in 0°C - 40°C ambient. (15) Used to transfer fixture to secondary power during outage. Must be used in conjunction with UL 1008 device (provided by others). These options require 2 relays on fixtures with dimmidrivers. ETRO option only requires one relay when used on a dimming fixture. A maximum of two devices can be used on one product. 3 or 4 driver products cannot use GTR. | |

| Driver Type | Number of Drivers | Options | Motion Sensors | Packaging | Accessories |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Driver Type | Number of Drivers | Options | Motion Sensors | Packaging | Accessories (order separately) |
| CD=0-10V Dimming Driver (7.8) ED=Electronic Fixed Output Driver (7) SLTD=Fifth Light DALI (7). (8). (13) | 1=1 Driver (12,000 and 15,000 lumen versions) 2=2 Drivers (18,000, 24,000 and 30,000 lumen versions) 3=3 Drivers (36,000 and 8,000 lumen C0 potion) (19) 4=4 Drivers (48,000 and 60,000 lumen C0 potion) (19) | MP=Modular Power Receptacle (used for all Cord or Cord and Plug options) (3) | MS=360° or 180° Motion Sensor Installed, (specify voltage) (2) SVPD3-Integrated occupancy and daylight dimming sensor, 1200 sq. ft. coverage (2), (16), (16), (17) LWR=LumaWatt Wireless Sensor system (2) ZW-SWPD3-Integrated Wavelinx Wireless Sensor, 1200 sq ft. coverage ZW-WaveLinx Wireless Enabled (does not include sensor) OEFP010VMV-Occupancy Sensor with Integrated Photocell FSP-211/L7-U=PIR Occupancy Sensor with integral 0-10V dimming | U=Unit Pack PALC=Job Pack, in carton | HBL-SPM-Single Monopoint Hanger w/Hub HBL-SPM-S-Surface Mount Bracket FH-1=Fixture Hook FL-1=Fixture Loop Y-T0GGLE=Y Mounting Toggle, #2 Cable (8) (Specify 10' or 30', requires 2 per fixture) HBAYC-CHAIN/SET/U=(2) V-Hook Hangers, 36' Chain Sets w/S-Hooks MPC3=3' Modular Power Cord & Plug (Specify Voltage) MC6=6' Modular Power Cord & Plug (Specify Voltage) MMS=360° or 180° Aisle Motion Sensor with Modular Power Receptacle (120-277V) WG/HBL6-4FT-B=Field Installable, Wireguard for HBLED (12) ISHH-01=Programming Remote for Integrated Sensor ISHH-02-Personal Control Remote for Integrated Sensor SWPD3=WaveLinx Sensor (for field installation into WaveLinx enabled fixture) |
| Notes | Notes | Notes | Notes | | Notes |
| (7) Lumen output will vary depending on dimming or fixed output drivers. Refer to IES files for delivered lumens. (8) Refer to ambient ratings chart for temperature requirements. (13) SLTD available with 12, 18, 24, 36 lumen packages only. | (19) For 48,000 lumen package, CD option requires three drivers, ED option requires four. | (3) Requires use of MC or MPC cord accessories, specify voltage for plugs (MP). | (2) When ordering sensors, specify as UNV (for 120 nr 277V), 347 or 480V. (14) Integrated sensor limited to 36,000 lumens. (16) Integrated sensor not compatible with door frame. (17) Integral sensor works only with "CD" driver and is factory prewired to the driver for stand-alone control. | | (10) Not available with lens insert options AI, CLI and FLI or door frame options A, CL and POLY125. (12) Not available with lens insert options AI, CLI and FLI or doorframe options A, CL and POLY125. |



Metalux HBLED SE

Product Specifications

Construction

- Constructed of channel and end plates with stiffening brackets and side rails
- · Side rails are standard on all HBLED products

Emergency Battery Options

- · Optional 120-277V emergency battery available in 7W or 14W
- 90-minute backup period for code compliance
- Test switch with laser pointer and testing from floor feature for ease of use
- · EZ Key feature prevents accidental discharge during construction
- · Generator transfer options available

LED and Light Engine

- · Drivers available in 120-277V and 347V
- · Optional 0-10V dimming driver is available

Integrated Control Options

- · Integral occupancy sensor available with coverage from 600 sqft up to 1250 sqft
- · Maximum mounting height of 30'
- Provides occupancy and closed loop daylight harvesting

Finish

- · Multistage, iron phosphate pretreatment
- · Multistage cleaning cycle

Mounting

- · Designed for suspension mounting
- · Optional wire hook and chain set available
- · Single monopoint mounting is available with SPM tong hanger

Frame/Shielding

· Optional door frame and lens assembly for added protection

Compliance

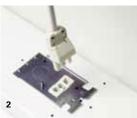
- · IC rated for insulation contact
- · cULus listed for damp locations -40°C to 55°C ambient environments
- · RoHS compliant
- Tested to IESNA LM-79 and LM-80
- · Stated life tested to TM21 standards

· Five-year warranty standard.

Modular F-Bay Power Supply Option

Cooper Lighting's F-Bay Modular Power Supply option is available for use with all F-Bay products. The modular power supply allows external fixture access for safe and easy servicing. There is no need to remove lamps or reflectors to disconnect fixture power with F-Bay Modular Power Supply. Access to the individual fixture's power supply allows servicing without turning off all the fixtures, disrupting occupants. F-Bay Modular Power Supply is a time saver in installation - simply plug & power.







- Modular Power Supply Receptacle supplied mounted into fixture Access Plate
- 2. Modular Power Cord & Plugs in 120, 277, 347, & 480V configurations for easy plug & power into existing supply



No internal fixture access required for installation or disconnecting power



Modular Motion Sensor Option supplied with Mounting Box and Modular Power Supply Receptacle

Code Compliance

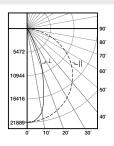
- UL/cUL Certified for Make/Break under load (UL2549)
- Meets NEC requirements for ballast disconnect (NEC 410.73G)
- · Allows for addition of Occupancy Sensor without hard connections
- · Receptacles complete with insulating/dust cap



Metalux **HBLED SE**

Photometric Data





HBLED-LD5-24SE-N-UNV-L850-ED2-U

Electronic Drive

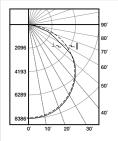
Linear LED 5000K

Spacing criterion: (II) 1.27 x mounting height,

 (\perp) 0.62 x mounting height

Lumens: 23224 Input Watts: 154W Efficacy: 150.8 lm/W Test Report:

HBLED-LD5-24SE-N-UNV-L850-ED2-U. IES



HBLED-LD5-24SE-W-UNV-L850-ED2-U

Electronic Driver

Linear LED 5000K

Spacing criterion: (II) 1.28 x mounting height,

(1) 1.29 x mounting height

Lumens: 24116 Input Watts: 154W Efficacy: 156.6 lm/W Test Report:

HBLED-LD5-24SE-W-UNV-L850-ED2-U. IES

Energy and Performance Data

| Catalog Number | Delivered Lumens | Watts | Efficacy (lm/W) |
|---------------------------|---------------------|-------|--------------------|
| HBLED-LD5-12SE-W-UNV-L750 | 12,629 | 77 | 165 |
| HBLED-LD5-15SE-W-UNV-L750 | 16,342 | 95 | 172 |
| HBLED-LD5-18SE-W-UNV-L750 | 19,587 | 122 | 161 |
| HBLED-LD5-24SE-W-UNV-L750 | 24,953 | 154 | 162 |
| HBLED-LD5-30SE-W-UNV-L750 | 32,291 | 193 | 167 |
| HBLED-LD5-36SE-W-UNV-L750 | 37,307 | 232 | 161 |
| HBLED-LD5-48SE-W-UNV-L750 | 51,058 | 299 | 171 |
| HBLED-LD5-60SE-W-UNV-L750 | 62,380 | 386 | 162 |

| | 5000K, 80CRI | | |
|---------------------------|---------------------|-------|--------------------|
| Catalog Number | Delivered Lumens | Watts | Efficacy (lm/W) |
| HBLED-LD5-12SE-W-UNV-L850 | 12,206 | 77 | 159 |
| HBLED-LD5-15SE-W-UNV-L850 | 15,794 | 95 | 166 |
| HBLED-LD5-18SE-W-UNV-L850 | 18,930 | 122 | 155 |
| HBLED-LD5-24SE-W-UNV-L850 | 24,116 | 154 | 157 |
| HBLED-LD5-30SE-W-UNV-L850 | 31,209 | 193 | 162 |
| HBLED-LD5-36SE-W-UNV-L850 | 36,057 | 232 | 155 |
| HBLED-LD5-48SE-W-UNV-L850 | 49,346 | 299 | 165 |
| HBLED-LD5-60SE-W-UNV-L850 | 60,289 | 386 | 156 |

Lumen Maintenance

| Ambient Temperature | TM-21 Lumen Maintenance (60,000 hours) | Theoretical L70 (hours) |
|------------------------|----------------------------------------------|-------------------------------|
| 55°C | > 84% | > 142,000 |

Shipping Data

| Catalog No. | Wt. |
|----------------|---------|
| HBLED-LD5-12SE | 19 lbs. |
| HBLED-LD5-15SE | 19 lbs. |
| HBLED-LD5-18SE | 22 lbs. |
| HBLED-LD5-24SE | 22 lbs. |
| HBLED-LD5-30SE | 22 lbs. |
| HBLED-LD5-36SE | 26 lbs. |
| HBLED-LD5-48SE | 26 lbs. |
| HBLED-LD5-60SE | 26 lbs. |

Ambient Ratings

| | Ambient | Drivers | | | L | | |
|----------------|---------|---------|------|------|---------|------------|------|
| Lumen Package | Rated | ED | CD | 5LTD | Inserts | Door frame | EM |
| HBLED-LD5-12SE | 55°C | 55°C | 50°C | 40°C | 50°C | 40°C | 40°C |
| HBLED-LD5-15SE | 55°C | 55°C | 50°C | 40°C | 50°C | 40°C | 40°C |
| HBLED-LD5-18SE | 55°C | 55°C | 50°C | 40°C | 50°C | 40°C | 40°C |
| HBLED-LD5-24SE | 55°C | 55°C | 50°C | 40°C | 50°C | 40°C | 40°C |
| HBLED-LD5-30SE | 55°C | 55°C | 40°C | 40°C | 50°C | 40°C | 40°C |
| HBLED-LD5-36SE | 55°C | 55°C | 40°C | 40°C | 40°C | 40°C | 40°C |
| HBLED-LD5-48SE | 40°C | 40°C | 40°C | 40°C | 40°C | N/A | 35°C |
| HBLED-LD5-60SE | 40°C | 40°C | 35°C | 40°C | 35°C | N/A | 35°C |



Metalux HBLED SE

Integrated Sensor

The HBLED with Integrated Sensor technology provides automatic energy savings without sacrificing performance. Traditionally, these types of energy savings required coordination between the luminaire and a lighting control system. The HBLED delivers superior lighting with integrated occupancy and daylighting controls.

Capture the benefits of traditional lighting controls, without complicated coverage planning or special wiring. Ideal for new construction or retrofit, the HBLED delivers automatic ON to an energy saving light level, while ensuring lighting is turned OFF when the space is unoccupied.

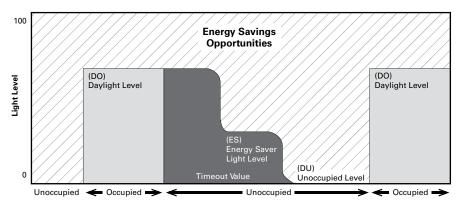
The integral daylight sensor reduces the need for special daylight zone planning. Each luminaire will automatically adjust the light level based on reflected light beneath the sensor in a closed loop method.

Occupied daylight light levels and unoccupied light levels can be adjusted using the integrated sensor programming remote (Catalog Number: ISHH-01). The integrated sensor personal remote (Catalog Number: ISHH-02) provides code compliant manual raise, lower, ON, OFF control.

The HBLED with Integrated Sensor is easy to install with no special wiring and ensures energy savings out-of-the-box with default control settings.

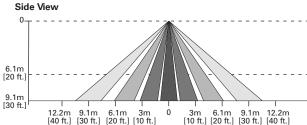
How it works:

- · As the user enters the space controlled by the integral sensor, the lighting turns ON to
- · Lighting will remain at that the daylight level until the space is unoccupied. This will start
- If the space remains unoccupied for half of the timeout period, the lighting will automatically reduce to the Energy Saver light level. This adjustable light level is typically half of the occupied daylight level.
- At the end of the timeout period the lighting will go to the unoccupied light level. This adjustable light level uses the OFF default setting.



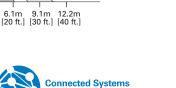
Default daylight harvesting set using 36,000 lumen unit at 30 ft. mounting height, 20 ft. spacing for 50 footcandles.

SVPD3 Coverage Pattern





- WaveLinx
- DLVP
- · LumaWatt Pro
- · iLumin Plus
- VividTune



Cooper Lighting Solutions

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CLICK HERE





