# Metalux

## DESCRIPTION

The HBLED SE is an outstanding value for a wide variety of applications and mounting heights. Precision designed optics, multiple distributions, lumen outputs and color temperatures make the HBLED SE ideal for industrial, commercial, manufacturing, gymnasium and other applications that utilize traditional HID and linear fluorescent high bays. The proprietary low-power, low-brightness LED module assembly offers exceptional optical performance with the enhanced benefits of LED lighting, including energy savings, extended system life, a reduced carbon footprint.

| | | |
|---|---|---|
| **Catalog #** | | **Type** |
| **Project** | | |
| **Comments** | | **Date** |
| **Prepared by** | | |

## SPECIFICATION FEATURES

**Construction**
Full body construction is achieved with channel and end plates, along w/stiffening brackets and side rails to help create a strong, clean finished frame for this luminaire. Side rails are standard on all HBLED products.

**Electrical**
Long-life LED system coupled with electrical driver to deliver optimal performance. LED's available in 4000k and 5000k with a CRI ≥ 80. cULus listed. Electronic drivers are available for 120-277V, 347V and 480V applications. An optional 0-10V dimming driver is available.

**Emergency Battery Pack Option**
Optional 120V-277V integral emergency battery pack is available in 7-watts or 14-watts to meet critical life-safety lighting requirements. The 90-minute batteries provide constant power to the LED system, ensuring code-compliance. A test switch/ indicator button can be tested safely from the ground using a laser pointer, while the patented EZ Key prevents accidental discharge of the battery during construction. Emergency/generator transfer options available – see ordering information for details.

**Finish**
White enamel finish preceded by a multistage cleaning cycle, iron phosphate coating with rust inhibitor to protect against contaminants and oxidation.

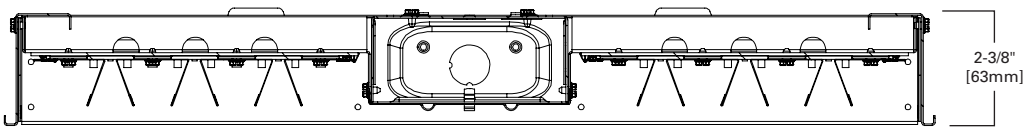
**Optics**
Precision designed optics deliver even illumination. General and aisle distribution ensures superior performance to key areas within an application.

**Shielding**
Door frame and lens assembly is optional for more demanding environments.

**Options**
Integral Occupancy Sensor available and provides from 600 sq. ft. up to 1250 sq. ft. of coverage in a maximum mounting height of 30'. Optional integral sensor system provides occupancy and daylight harvesting.

**Mounting**
The HBLED series is ideally suited for suspension mounting with optional wire hook and chain set, or cable mounting. Single monopoint mounting is also available with SPM tong hanger.

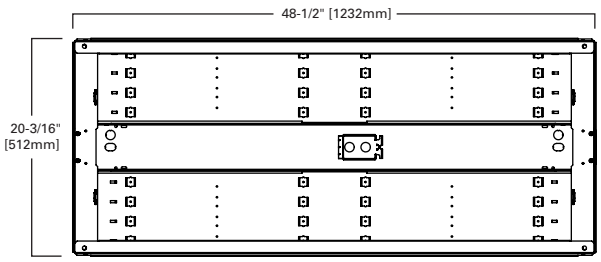
**Compliance**
Luminaires are cULus listed for damp locations -40°C - 55°C ambient environments in open configurations with fixed output (ED option) drivers and 40°C with dimming drivers. Refer to ambient chart for complete list. RoHS compliant, and LED modules comply with IESNA LM-79 and LM-80 standards. DesignLights Consortium™ Qualified and classified for both DLC Standard and DLC Premium, refer to www.designlights.org for details.




(NARROW DISTRIBUTION)

## DIMENSION TOP VIEW

4' HOUSING




**HB**
LED
STANDARD
EFFICACY

**20" X 48"**

LED High Bay Efficiency Luminaire

Connected Systems
CLICK HERE

## ENERGY DATA

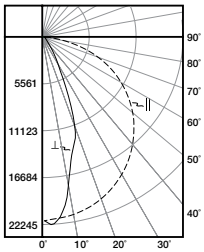
Input Watts:
12SE (12,000 lumens)=75W
15SE (15,000 lumens)=99W
18SE (18,000 lumens)=131W
24SE (24,000 lumens)=150W
30SE (30,000 lumens)=199W
36SE (36,000 lumens)=225W
44SE (44,000 lumens)=299W
54SE (54,000 lumens)=406W

**LINEAR DISCONNECT**
Safe and convenient means of disconnecting power

Powering Business Worldwide

PS519137EN
10-12-2017

## PHOTOMETRICS




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

Electronic Driver

Linear LED 5000K

Spacing criterion: (II) 1.27 x mounting height, (⊥) 0.62 x mounting height

Lumens: 21512

Input Watts: 149.5W

Efficacy: 143.9 lm/W

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

**Candlepower**

| Angle | Along II | 45° | Across ⊥ |
|---|---|---|---|
| 0 | 21788 | 21788 | 21788 |
| 5 | 21529 | 21799 | 21422 |
| 10 | 21269 | 19695 | 16860 |
| 15 | 20835 | 15546 | 13351 |
| 20 | 20231 | 13010 | 9948 |
| 25 | 19464 | 11063 | 4401 |
| 30 | 18563 | 6969 | 2062 |
| 35 | 17510 | 3265 | 299 |
| 40 | 16305 | 1458 | 165 |
| 45 | 14991 | 242 | 138 |
| 50 | 13590 | 172 | 55 |
| 55 | 12018 | 153 | 40 |
| 60 | 10342 | 114 | 40 |
| 65 | 8537 | 95 | 36 |
| 70 | 6543 | 78 | 45 |
| 75 | 4359 | 42 | 64 |
| 80 | 2178 | 38 | 61 |
| 85 | 583 | 23 | 28 |
| 90 | 0 | 0 | 0 |

**Coefficients of Utilization**

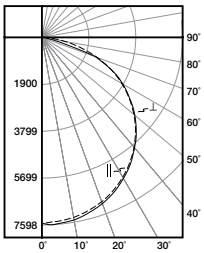
| | Effective floor cavity reflectance | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| rc | 80% | | | | 70% | | | | 50% | | | 30% | | | 10% | | | 0% |
| rw | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 101 | 102 | 100 | 98 | 99 | 97 | 95 | 95 | 94 | 92 | 91 |
| 2 | 105 | 99 | 94 | 90 | 103 | 97 | 93 | 89 | 94 | 90 | 87 | 91 | 88 | 85 | 88 | 86 | 83 | 81 |
| 3 | 98 | 91 | 85 | 80 | 96 | 89 | 84 | 79 | 86 | 82 | 78 | 84 | 80 | 77 | 82 | 78 | 75 | 74 |
| 4 | 92 | 83 | 77 | 72 | 90 | 82 | 76 | 71 | 80 | 74 | 70 | 78 | 73 | 69 | 76 | 72 | 68 | 67 |
| 5 | 87 | 77 | 70 | 65 | 85 | 76 | 69 | 64 | 74 | 68 | 64 | 72 | 67 | 63 | 70 | 66 | 63 | 61 |
| 6 | 82 | 71 | 64 | 59 | 80 | 70 | 64 | 59 | 69 | 63 | 58 | 67 | 62 | 58 | 66 | 61 | 58 | 56 |
| 7 | 77 | 66 | 59 | 54 | 76 | 66 | 59 | 54 | 64 | 58 | 54 | 63 | 58 | 54 | 62 | 57 | 53 | 52 |
| 8 | 73 | 62 | 55 | 50 | 71 | 61 | 55 | 50 | 60 | 54 | 50 | 59 | 54 | 50 | 58 | 53 | 49 | 48 |
| 9 | 69 | 58 | 51 | 47 | 68 | 57 | 51 | 47 | 56 | 51 | 47 | 56 | 50 | 46 | 55 | 50 | 46 | 45 |
| 10 | 65 | 55 | 48 | 44 | 64 | 54 | 48 | 44 | 53 | 47 | 44 | 52 | 47 | 43 | 52 | 47 | 43 | 42 |

**Zonal Lumen Summary**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0-30 | 11798 | 54.8 |
| 0-40 | 15705 | 73.0 |
| 0-60 | 20174 | 93.8 |
| 0-90 | 21512 | 100.0 |
| 0-180 | 21512 | 100.0 |

**Luminance Data**

| Angle in Deg | Average 0-Deg cd/sm | Average 45-Deg cd/sm | Average 90-Deg cd/sm |
|---|---|---|---|
| 45 | 34229 | 529 | 297 |
| 55 | 33830 | 405 | 104 |
| 65 | 32614 | 334 | 122 |
| 75 | 27189 | 228 | 324 |
| 85 | 10794 | 291 | 302 |




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

Electronic Driver

Linear LED 5000K

Spacing criterion: (II) 1.28 x mounting height, (⊥)1.29 x mounting height

Lumens: 22339

Input Watts: 149.5W

Efficacy: 149.4 lm/W

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

**Candlepower**

| Angle | Along II | 45° | Across ⊥ |
|---|---|---|---|
| 0 | 7539 | 7539 | 7539 |
| 5 | 7471 | 7484 | 7568 |
| 10 | 7389 | 7410 | 7498 |
| 15 | 7244 | 7279 | 7332 |
| 20 | 7055 | 7090 | 7137 |
| 25 | 6805 | 6844 | 6883 |
| 30 | 6504 | 6543 | 6557 |
| 35 | 6151 | 6190 | 6207 |
| 40 | 5754 | 5797 | 5784 |
| 45 | 5305 | 5344 | 5348 |
| 50 | 4803 | 4858 | 4854 |
| 55 | 4251 | 4311 | 4284 |
| 60 | 3661 | 3722 | 3710 |
| 65 | 3019 | 3075 | 3017 |
| 70 | 2294 | 2406 | 2238 |
| 75 | 1556 | 1595 | 547 |
| 80 | 855 | 152 | 133 |
| 85 | 273 | 94 | 105 |
| 90 | 0 | 0 | 0 |

**Coefficients of Utilization**

| | Effective floor cavity reflectance | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 109 | 104 | 100 | 97 | 106 | 102 | 98 | 95 | 98 | 95 | 92 | 94 | 92 | 89 | 90 | 88 | 87 | 84 |
| 2 | 99 | 91 | 84 | 79 | 97 | 89 | 83 | 78 | 86 | 80 | 76 | 82 | 78 | 74 | 79 | 76 | 72 | 70 |
| 3 | 90 | 80 | 72 | 65 | 88 | 78 | 71 | 64 | 75 | 69 | 63 | 72 | 67 | 62 | 70 | 65 | 61 | 59 |
| 4 | 82 | 70 | 62 | 55 | 80 | 69 | 61 | 54 | 67 | 59 | 54 | 64 | 58 | 53 | 62 | 57 | 52 | 50 |
| 5 | 76 | 63 | 54 | 47 | 74 | 62 | 53 | 47 | 59 | 52 | 46 | 58 | 51 | 46 | 56 | 50 | 45 | 43 |
| 6 | 70 | 56 | 47 | 41 | 68 | 55 | 47 | 41 | 54 | 46 | 40 | 52 | 45 | 40 | 50 | 44 | 40 | 38 |
| 7 | 65 | 51 | 42 | 36 | 63 | 50 | 42 | 36 | 49 | 41 | 36 | 47 | 40 | 35 | 46 | 40 | 35 | 33 |
| 8 | 60 | 46 | 38 | 32 | 59 | 46 | 38 | 32 | 44 | 37 | 32 | 43 | 36 | 31 | 42 | 36 | 31 | 29 |
| 9 | 56 | 43 | 34 | 29 | 55 | 42 | 34 | 29 | 41 | 34 | 28 | 40 | 33 | 28 | 39 | 33 | 28 | 26 |
| 10 | 53 | 39 | 31 | 26 | 51 | 39 | 31 | 26 | 38 | 31 | 26 | 37 | 30 | 26 | 36 | 30 | 26 | 24 |

**Zonal Lumen Summary**

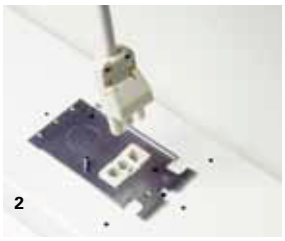
| Zone | Lumens | % Fixture |
|---|---|---|
| 0-30 | 5940 | 26.6 |
| 0-40 | 9821 | 44.0 |
| 0-60 | 17795 | 79.7 |
| 0-90 | 22339 | 100.0 |
| 0-180 | 22339 | 100.0 |

**Luminance Data**

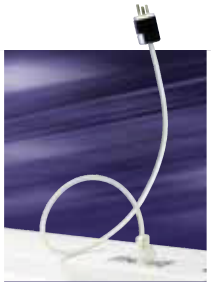
| Angle in Deg | Average 0-Deg cd/sm | Average 45-Deg cd/sm | Average 90-Deg cd/sm |
|---|---|---|---|
| 45 | 12112 | 11705 | 11519 |
| 55 | 11966 | 11441 | 11107 |
| 65 | 11535 | 10767 | 10213 |
| 75 | 9705 | 8588 | 2790 |
| 85 | 5050 | 1176 | 1148 |

## 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.***


1. 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

## LUMEN MAINTENANCE

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

## ENERGY AND PERFORMANCE DATA BY CATALOG NUMBER

| Catalog Number | Delivered Lumens | Watts | Efficacy (lm/W) |
|---|---|---|---|
| HBLED-LD5-12SE-W-UNV-L850-ED1-U | 11456 | 75 | 153 |
| HBLED-LD5-15SE-W-UNV-L850-ED1-U | 14245 | 99.2 | 144 |
| HBLED-LD5-18SE-W-UNV-L850-ED2-U | 20003 | 131 | 153 |
| HBLED-LD5-24SE-W-UNV-L850-ED2-U | 22339 | 149.5 | 149 |
| HBLED-LD5-30SE-W-UNV-L850-ED2-U | 27832 | 199.4 | 140 |
| HBLED-LD5-36SE-W-UNV-L850-ED3-U | 33704 | 224.5 | 150 |
| HBLED-LD5-44SE-W-UNV-L850-ED3-U | 41732 | 299.2 | 139 |
| HBLED-LD5-54SE-W-UNV-L850-ED4-U | 50809 | 406 | 125 |

## AMBIENT RATINGS

| Lumen Package | Ambient Rated | Drivers | | | Lensed | | EM |
|---|---|---|---|---|---|---|---|
| | | ED | CD | 5LTD | Inserts | Doorframe | |
| 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-LD5-44SE | 40°C | 40°C | 40°C | 40°C | 40°C | N/A | 35°C |
| HBLED-LD5-54SE | 40°C | 40°C | 35°C | 40°C | 35°C | N/A | 35°C |
| HBLED-LD5-54SEHT | 50°C | 50°C | 50°C | N/A | N/A | N/A | N/A |

## ORDERING INFORMATION

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

**Series** [22]
**HBLED**=LED High Bay Linear

**Lamp Type**
**LD5**=LED 5.0

**LED Lumen Output**
**12SE**=12,000 Lumens
**15SE**=15,000 Lumens
**18SE**=18,000 Lumens
**24SE**=24,000 Lumens
**30SE**=30,000 Lumens
**36SE**=36,000 Lumens
**44SE**=44,000 Lumens
**54SE**=54,000 Lumens [14]
**54SEHT**=54,000 Lumens [16]

**Distribution**
**N**=Narrow (Aisle)
**W**=Wide (General)

**Shielding**
**[Blank]**=None
**A**=Prismatic Acrylic Lens and Doorframe [8], [9], [11], [19]
**CL**=Clear Acrylic Lens and Doorframe [8], [11], [19]
**A/WG**=Acrylic Lens, Wireguard and Doorframe [8], [9], [11], [19]
**CL/WG**=Clear Lens, Wireguard and Doorframe [8], [11], [19]
**AI**=Prismatic Acrylic Lens Insert [8], [9]
**CLI**=Clear Acrylic Lens Insert [8]
**FLI**=Frosted Lens Insert [8], [9]
**POLY125/WG**=Polycarbonate Lens, Wireguard and Doorframe [8], [11], [19]
**POLY125**=Polycarbonate Lens and Doorframe [8], [11], [19]

**Voltage** [1]
**120V**=120 Volt
**277V**=277 Volt
**347V**=347 Volt [6], [10]
**480V**=480 Volt [6], [10], [17], [20]
**UNV**=Universal Voltage 120-277
**UNC**=Universal Voltage 347/480 [6]

**CCT**
**L835**=3500K
**L840**=4000K
**L850**=5000K

**Options** [5]
**Emergency**
**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 [18]
**ETR**=Iota Emergency Transfer Relay [18]
**ETRD**=Iota Emergency Transfer Relay with dimming control [18]

**Number of Relays**
**1**=1 relay per driver non-dimming only
**2**=2 relays per driver for dimming applications

**Driver Type**
**CD**=0-10V Dimming Driver [7], [8]
**ED**=Electronic Fixed Output Driver [7]
**5LTD**=Fifth Light DALI [7], [8], [13]

**Number of Drivers**
**1**=1 Driver (12,000 and 15,000 lumen version)
**2**=2 Drivers (18,000, 24,000 and 30,000 lumen version)
**3**=3 Drivers (36,000 and 44,000 lumen versions)
**4**=4 Drivers (54,000 lumen version)

Connected Systems CLICK HERE

**Options**
**MP**=Modular Power Receptacle (used for all Cord or Cord and Plug options) [3]

**Motion Sensors**
**MS**=360° or 180° Motion Sensor Installed, (specify voltage) [2]
**SVPD3**=Integrated occupancy and daylight dimming sensor, 1200 sq. ft. coverage [15], [19], [21]
**LWR**=LumaWatt Wireless Sensor system

**Packaging**
**U**=Unit Pack
**PALC**=Job Pack In Carton

**Accessories** (order separately)
**HBL-SPM**=Single Monopoint Hanger w/Hub
**HBL-SPM-S**=Surface Mount Bracket
**FH-1**=Fixture Hook
**FL-1**=Fixture Loop
**Y-TOGGLE**=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
**MPC6**=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

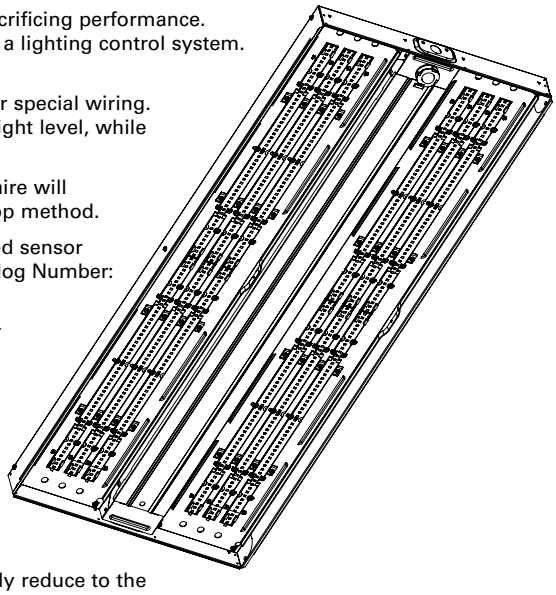
**NOTES:** [1] Voltage must be specified when ordered with plugs or emergency drivers . [2] When ordering MS option, specify as UNV (for 120 or 277V), 347 or 480V. [3] Requires use of MC or MPC cord accessories, specify voltage for plugs (MP). [4] With integral test switch/indicator/laser test. For approximate 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. [6] Not available with dual switching. [7] Lumen output will vary depending on dimming or fixed output drivers. Refer to IES files for deliveried lumens. [8] Rated for 40°C ambient. [9] Not available with narrow distribution. [10] EM not available with 36SE, 44SE or 54SE configurations at 347V or 480V) [11] Not available with 44SE or 54SE configurations. [12] Not available with lens insert options AI, CLI and FLI or doorframe options A, CL and POLY125. [13] 5LTD available with 12, 18, 24, 36 lumen packages only. [14] 40°C max. ambient rating. [15] Integrated sensor limited to 36,000 lumens. [16] HT lumen package not available with 347 or 480V, emergency, dimming, or lensed options. [17] 480V not for use with impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems). [18] 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 dimming drivers. ETRD 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 or ETR. [19] Integrated sensor not compatible with door frame. [20] Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems). [21] Integral sensor works only with "CD" driver and is factory prewired to the driver for stand-alone control. [22] DesignLights Consortium™ Qualified and classified for both DLC Standard and DLC Premium, refer to www.designlights.org for details.

Specifications & dimensions subject to change without notice. Consult your Eaton Representative for availability and ordering information.

## 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 | 24 lbs. |
| HBLED-LD5-44SE | 24 lbs. |
| HBLED-LD5-54SE | 26 lbs. |

## 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.

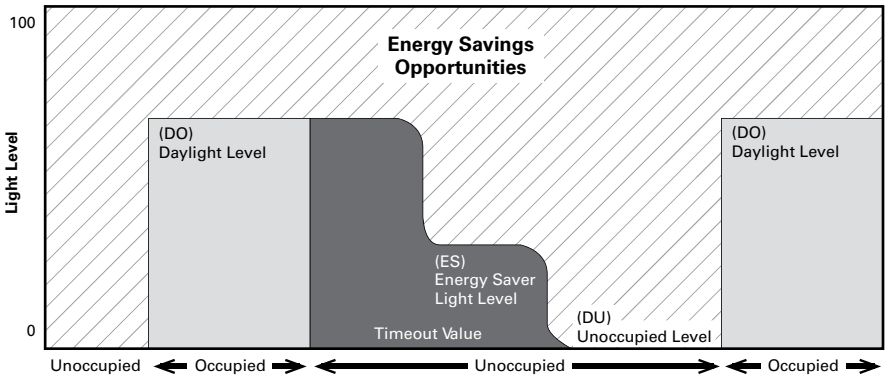
The integral daylight sensor reduces the need for special daylight zone planning. Each luminaire will automatically adjust the light level based on reflected light beneath the sensor in a closed loop method.

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:**

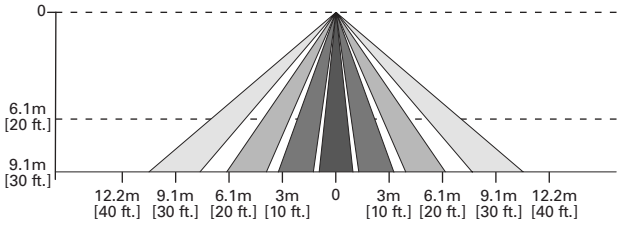
- As the user enters the space controlled by the integral sensor, the lighting turns ON to the default daylight level.
- Lighting will remain at that the daylight level until the space is unoccupied. This will start the occupancy timeout period (default 20 minutes).
- If the space remains unoccupied 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**

**Side View**




**Optional Remote Controls**


**ISHH-01 Remote**


**ISHH-02 Remote**