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



Metalux

SkyBar LED

LED Low Bay Luminaire
 2-7/8" x 48"
 2-7/8" x 96"

Typical Applications
 Commercial • Industrial

Interactive Menu

- Order Information [page 2](#)
- Photometric Data [page 4](#)
- Integrated Sensor [page 5](#)
- Product Warranty

Product Certification



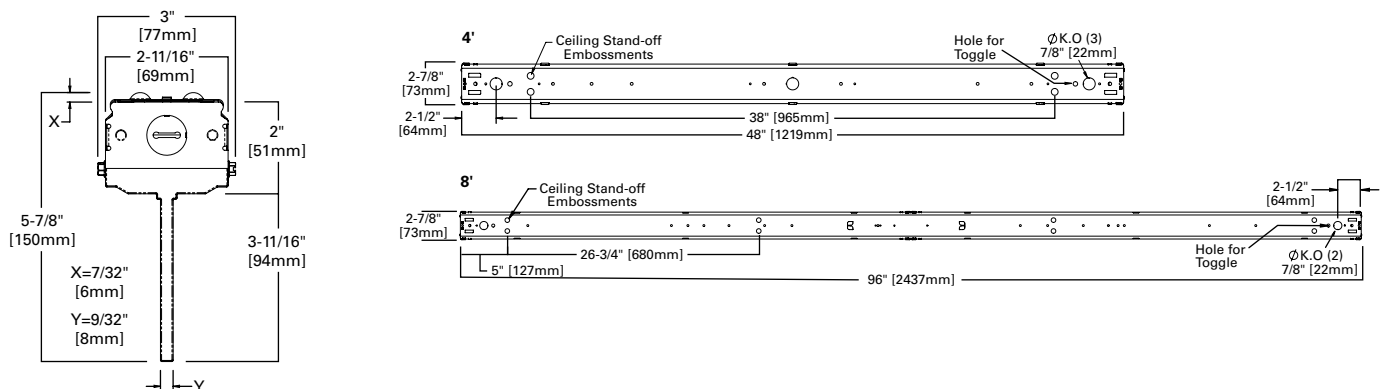
Product Features



Top Product Features

- Single blade configuration - narrow and wide distributions
- Lumen packages up to 16K lumens
- High-Performance efficacy up to 148 LPW
- LEDs available in 3500K, 4000K and 5000K at typical 80 CRI
- Standard uplight

Dimensional and Mounting Details



Order Information

SAMPLE ORDER NUMBER: **SKB1-LD5-14-W-UNV-L850-CD2-U**

| Length | Series | Mounting Arrangement | Lamp Type | LED Lumen Output | Distribution | Voltage | Options | CCT |
|----------------------------|-----------------|---|-------------|--|--------------------|---|--|--|
| 4=4' Length 8=8' Length | SKB1=WaveStream | [Blank]=Stand Alone R=Continuous Row Mount | LD5=LED 5.0 | 4 ft. 3=3,000 Lumens 4=4,000 Lumens 5=5,000 Lumens 6=6,000 Lumens 7=7,000 Lumens 8=8,000 Lumens 8 ft. 6=6,000 Lumens 8=8,000 Lumens 10=10,000 Lumens 12=12,000 Lumens 14=14,000 Lumens 16=16,000 Lumens | N=Narrow W=Wide | 120V=120 Volt 277V=277 Volt 347V=347 Volt 480V=480 Volt UNC=Universal Voltage 347-480 (2) UNV=Universal Voltage 120-277 | EL7W=7-watt, 120V-277V emergency battery pack installed (2), (3), (6) EL14W=14-watt 120V-277V emergency battery pack installed (2), (3), (6) GTR2=Bodine Generator Transfer Relay (8) ETRD=Iota Emergency Transfer Relay with dimming control (8) | L835=3500K L840=4000K L850=5000K |
| | | | | | | Notes (1) Voltage must be specified when ordered with plugs or emergency ballasts. (2) Not available with UNC and EL options together. | Notes (2) Not available with UNC and EL options together. (3) 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. (6) EL option illuminates one 4 ft. section in 12,000, 14,000 and 16,000 lumen packages. (8) Used to bypass local control during outage. Must be used in conjunction with UL 1008 device (provided by others). GTR2 option includes 2 relays on fixtures with dimming drivers. ETRD option only requires one relay when used on a dimming fixture. Must specify voltage as 120V or 277V when ordering these devices. | |

| Driver Type | Number of Drivers | Wiring | Options | Packaging | Accessories |
|---|---|--|---------------------|-------------|---|
| CD=0-10V Dimming Driver SLTD=Fifth Light (DALI) Driver | 1=1 Driver 2=2 Drivers (12,000, 14,000 and 16,000 lumens) SLTD 1=1 Driver 2=2 Drivers (16,000, 12,000 and 14,000 lumen) | PL _{NG} =Plug In System (1, 2, or 3 Circuit Capability), No Ground (ground provided by fixture body) PL _{WG} =Plug In System (1, 2, or 3 Circuit Capability), With Ground (separate ground wire in harness) CPL _{NG} =Crossover Plug In System (2 or 3 Circuit Capability) No Ground (ground provided by fixture body) CPL _{WG} =Crossover Plug In System (2 or 3 Circuit Capability) With Ground (separate ground wire in harness) Motion Sensors LWR=LumaWatt Wireless Sensor system (10) SVPD2=Integrated occupancy and daylight dimming sensor, 900 sq. ft. coverage (4,7) SVPD3=Integrated occupancy and daylight dimming sensor, 1200 sq. ft. coverage (4,7) LB-ERMS360=360° Low Bay Motion Sensor - End of Row LB-MRMS360=360° Low Bay Motion Sensor - Middle of Row HB-ERMS360=360° High Bay Motion Sensor - End of Row HB-MRMS360=360° High Bay Motion Sensor - Middle of Row | RS=Reflector Shield | U=Unit Pack | AYC=Chain/Set=36" Chain Hanger (Use 1 set per fixture) SCF=Fixed Stem Set (Specify Length) SCS=Swivel Stem Set (Specify Length) SCA=Adjustable 48" Stem Set EYE CHAIN SET/3FT=Eye Bolt Chain (Use 1 set per fixture) A1B/Spacer-U=Spacer 1-1/2" to 2-1/2" from ceiling (Use 2 per fixture) TOGGLE=Single Toggle No. 2 (Specify Length) Y-TOGGLE=Y Toggle No. 2 (Specify Length) SKBLED-CRA=Continuous Row Aligner (9) |
| | | Notes (4) For mounting heights up to 10 ft. (5) For mounting heights up to 30 ft. (7) Recommended for use with stand alone fixtures only. (10) When ordering SVPD3 or LWR option, specify as UNV (for 120 or 277V), or 347V, or 480V. | | | Notes (9) Included when ordering the "R" mounting arrangement. |

PI Option Ordering Information

| Catalog Number Suffix | Number of Circuits | Circuit Wired To Ballast | Catalog Numbering System |
|-----------------------|--------------------|--------------------------|--|
| PI 1 BLK | 1 | Black | The PI System is available in sections up to 8' in length for continuous row wiring by simply plugging the sections together. Each PI section is factory wired to the ballast leads. Color coding of wires is as follows: PI-1 = One Circuit - 2 Wires: one black, one white PI-2 = Two Circuits - 3 Wires: one black, one blue, one white PI-3 = Three Circuits - 4 wires: one black, one blue, one red, one white When ordering the PI2/PI3 System it is necessary to specify the number of fixtures required for each circuit. Each circuit in fixture must be ordered as a separate line item, with a different hot wire color specified. All wiring to external feeds, using cord or cord & plug, are responsibility of installing licensed contractor. Cord and cord & plug sets must be ordered separately if PI option is chosen. |
| PI 2 BLU | 2 | Blue | |
| PI 2 BLK | 2 | Black | |
| PI 3 RED | 3 | Red | |
| PI 3 BLU | 3 | Blue | |
| PI 3 BLK | 3 | Black | |

PI1 - Single Circuit Plug-In

SAMPLE ORDER NUMBER: **PI1BLK-WG**

| Catalog Number Suffix | Ground Wires |
|----------------------------|--|
| PI1 =Single Circuit | NG =No Ground (ground provided by fixture body) WG =With Ground (separate ground wire in harness) |
| BLK =Black Hot | |

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

PI2 - Two Circuit Plug-In

SAMPLE ORDER NUMBER: **PI2BLK-WG**

| Catalog Number Suffix | Ground Wires |
|---|--|
| PI2 =Two Circuit | Leave Blank =Single Neutral 2NEU =Two Neutrals |
| BLK =Black Hot BLU =Blue Hot | |
| Leave Blank =Single Neutral /WHT =White Neutral /GRY =Gray Neutral | NG =No Ground (ground provided by fixture body) WG =With Ground (separate ground wire in harness) |

PI3 - Three Circuit Plug-In

SAMPLE ORDER NUMBER: **PI3BLK-WG**

| Catalog Number Suffix | Ground Wires |
|---|--|
| PI3 =Three Circuit | Leave Blank =Single Neutral 2NEU =Two Neutrals |
| BLK =Black Hot BLU =Blue Hot RED =Red Hot | |
| Leave Blank =Single Neutral /WHT =White Neutral /GRY =Gray Neutral | NG =No Ground (ground provided by fixture body) WG =With Ground (separate ground wire in harness) |

Product Specifications

Construction

- Channel is die formed cold rolled steel with KOs for ease of installation
- Groove for Tong Hanger
- End plate quickly converts to snap-in channel connector for continuous row alignment

Electrical

- Long-Life LED system coupled with electrical driver to deliver optimal performance
- LED's available in 3500K, 4000K or 5000K with a CRI <85
- Electronic drivers are available for 120-277V, 347V and 480V applications

Emergency Battery Pack Option

- 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

Compliances

- Luminaires are cULus listed for damp Locations 1. 7°C-40°C (35°F-105°F) ambient environments. (EL option up to 35°C ambient)
- ROHS Compliant, and LED modules comply with IESNA LM79/LM80 standards

Control

- Equipped standard with a 0-10V continuous dimming driver that works with any standard 0-10V control/dimmer
- Dimming range is 10% to 100%; varies by control device
- Combine with energy saving products like occupancy sensors, daylighting controls, and lighting relay panels from Cooper Lighting Solutions (www.cooperlighting.com) to maximize energy savings

Optics

- Precision formed optical assembly with positively retained high optical grade acrylic lenses provide a directed optical distribution using WaveStream technology.

Mounting

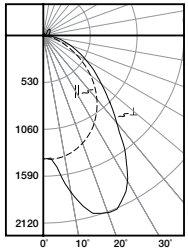
- Suspended using two V-hangers (included)
- Optional Y-hook, Y-Toggle or Surface/stem mount bracket available
- Continuous row mount available
- Mounting hardware must be ordered separately

Warranty

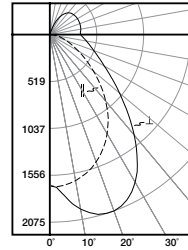
- Five year limited warranty

Photometric Data

[View IES files](#)



4SKB1-LD5-5-N-UNV-L835-CD1-U
 Electronic Driver
 Linear LED 3500K
 Spacing criterion: (H) 1.19 x mounting height,
 (L) 1.53 x mounting height
 Lumens: 5038
 Input Watts: 38W
 Efficacy: 132.6 lm/W
 Test Report: 4SKB1-LD5-5-N-UNV-L835-CD1-U.IES



4SKB1-LD5-7-W-UNV-L840-CD1-U
 Electronic Driver
 Linear LED 4000K
 Spacing criterion: (H) 1.14 x mounting height,
 (L) 1.48 x mounting height
 Lumens: 6953
 Input Watts: 52.7W
 Efficacy: 131.9 lm/W
 Test Report: 4SKB1-LD5-7-W-UNV-L840-CD1-U.IES

Energy and Performance Data

Energy and Performance Data by Catalog Number

| Catalog Number | Delivered Lumens | Watts | Efficacy (lm/W) |
|-------------------------------|------------------|-------|-----------------|
| 4 ft. Length | | | |
| 4SKB1-LD5-3-W-UNV-L840-CD1-U | 3021 | 21.4 | 140.9 |
| 4SKB1-LD5-4-W-UNV-L840-CD1-U | 4022 | 29.0 | 138.7 |
| 4SKB1-LD5-5-W-UNV-L840-CD1-U | 5061 | 38.0 | 133.2 |
| 4SKB1-LD5-6-W-UNV-L840-CD1-U | 6053 | 47.2 | 128.4 |
| 4SKB1-LD5-7-W-UNV-L840-CD1-U | 6953 | 52.7 | 131.9 |
| 4SKB1-LD5-8-W-UNV-L840-CD1-U | 8087 | 65.2 | 124.0 |
| 8 ft. Length | | | |
| 8SKB1-LD5-6-W-UNV-L840-CD1-U | 6042 | 42.0 | 143.7 |
| 8SKB1-LD5-8-W-UNV-L840-CD1-U | 8044 | 59.5 | 135.3 |
| 8SKB1-LD5-10-W-UNV-L840-CD1-U | 10122 | 77.4 | 130.7 |
| 8SKB1-LD5-12-W-UNV-L840-CD2-U | 12106 | 94.3 | 128.4 |
| 8SKB1-LD5-14-W-UNV-L840-CD2-U | 13906 | 105.4 | 131.9 |
| 8SKB1-LD5-16-W-UNV-L840-CD2-U | 16174 | 130.5 | 124.0 |

Lumen Maintenance

| Ambient Temperature | TM-21 Lumen Maintenance (60,000 hours) | Theoretical L70 (Hours) |
|---------------------|--|-------------------------|
| 25°C | > 91% | > 268,000 |

Energy Data

| Catalog No. | Input Watts |
|--------------|-------------|
| 4SKB1-LD5-3 | 21 |
| 4SKB1-LD5-4 | 29 |
| 4SKB1-LD5-5 | 38 |
| 4SKB1-LD5-6 | 47 |
| 4SKB1-LD5-7 | 53 |
| 4SKB1-LD5-8 | 65 |
| 8SKB1-LD5-6 | 42 |
| 8SKB1-LD5-8 | 59 |
| 8SKB1-LD5-10 | 77 |
| 8SKB1-LD5-12 | 94 |
| 8SKB1-LD5-14 | 105 |
| 8SKB1-LD5-16 | 130 |

Shipping Data

| Catalog No. | Wt. |
|--------------|---------|
| 4SKB1-LD5-3 | 8 lbs. |
| 4SKB1-LD5-4 | 8 lbs. |
| 4SKB1-LD5-5 | 8 lbs. |
| 4SKB1-LD5-6 | 8 lbs. |
| 4SKB1-LD5-7 | 8 lbs. |
| 4SKB1-LD5-8 | 8 lbs. |
| 8SKB1-LD5-6 | 15 lbs. |
| 8SKB1-LD5-8 | 15 lbs. |
| 8SKB1-LD5-10 | 15 lbs. |
| 8SKB1-LD5-12 | 15 lbs. |
| 8SKB1-LD5-14 | 15 lbs. |
| 8SKB1-LD5-16 | 15 lbs. |

Integrated Sensor

Description

This innovative luminaire-integrated sensor control system optimized for code-compliant occupancy detection and daylight harvesting – all from within the foot print of Metalux's luminaires.

No New Wires

An in-place fixture retrofit is all that's needed to meet most energy codes in commercial spaces. The sensor system is factory wired to the luminaire, switching on or off based on occupancy, and dimming the light when enough daylight is available.

Sophisticated lighting control without commissioning

The luminaire-integrated sensor system offers out-of-the-box operation using thoughtful default settings.

Flexibility and Individual Control

When the application demands more, the sensor system has the option to make changes using a remote control. The remote allows changes from the default settings for occupancy, target light level, preset lighting levels, and more.

Cost-effective, Stand-alone Operation

With a single product to mount and a single electrical connection to make, the Metalux luminaire with an integrated sensor system saves money on the total installed cost when occupancy or daylight harvesting controls are needed. The integrated sensor system works stand-alone, without the need for additional switches and dimmers. When manual-on, manual dimming or other code-required control schemes are needed, please see the comprehensive offering of Greengate and Fifth Light solutions from Cooper Lighting Solutions at www.cooperlighting.com.

Metalux Integrated Sensor Sequence of Operation

The occupancy sensing portion of the sensor uses Passive Infrared (PIR) technology with Auto-on/Auto-off operation. The small lens in the center of the sensor directs the view of a passive infrared occupancy detector to sense occupants moving through the room. To trigger the light on, an occupant must cross at least two passive infrared beams. When motion in the coverage area ceases, the sensor logic concludes the room is unoccupied, and begins a count-down timer. By default, the timer is factory-set to 20 minutes, and can be adjusted to 5, 10, 15 and 20 minutes using the optional remote control, model number HHPRG-MS. Any motion detected during the count-down timer will cause the light to remain on and resets the timer. When motion is detected, a red LED will blink. In addition to the default on/off functionality, the sensor has an Energy Saver feature, where the light can be set to dim to a preset level after the sensor detects no occupancy for half of the count-down timer, when the timer is complete the lighting will change to the unoccupied setting. The Energy Saver feature works when the count-down timer is set to at least 10 minutes, and the preset level and feature are configured using the optional remote control. See the Sensor Programming Guide that comes with the HHPRG-MS remote for details on this feature. The sensitivity of the occupancy detection can be adjusted, using the HHPRG-MS remote. By default, the sensor operates at the full detection range shown on the coverage pattern diagram. Using the "LO" button on the HHPRG-MS remote, reduces the sensor detection range by 50%. Full coverage can be restored at any time by pressing the "HI" button on the remote. The red LED indicator will blink repeatedly to confirm any programming change.

The dimming daylight harvesting portion of the sensor uses a small photo sensor located next to the occupancy sensing lens. The sensor continuously measures the available light in the room, even when the fixture is turned off. This allows sensor to operate in one of three daylighting modes, where the artificial light from the paired Metalux luminaire can adjust the light based on the amount of ambient light from surrounding natural and artificial light sources. Since the sensor measures light from its luminaire along with other light sources, this sensor follows a closed-loop dimming daylight harvesting style. The first mode, Daytime, is active when the sensor detects light of at least 100 lux in the room. In Daytime mode, when the light is turned on after detecting occupancy, the sensor will begin balancing the luminaire light level relative to the total available light it measures. The default light balancing target in daytime mode is 500 lux. This level can be adjusted higher or lower using the optional HHPRG-MS remote, and pressing "SET" and then the "DO" (Daytime Occupied) button to store the new light level. Similarly, the Daytime Unoccupied, "DU" has a default of level of 0 lux, or off, but can be adjusted higher to prevent the lights from turning off completely when unoccupied. More details on this function are found in the Sensor Programming Guide for the HHPRG-MS remote.

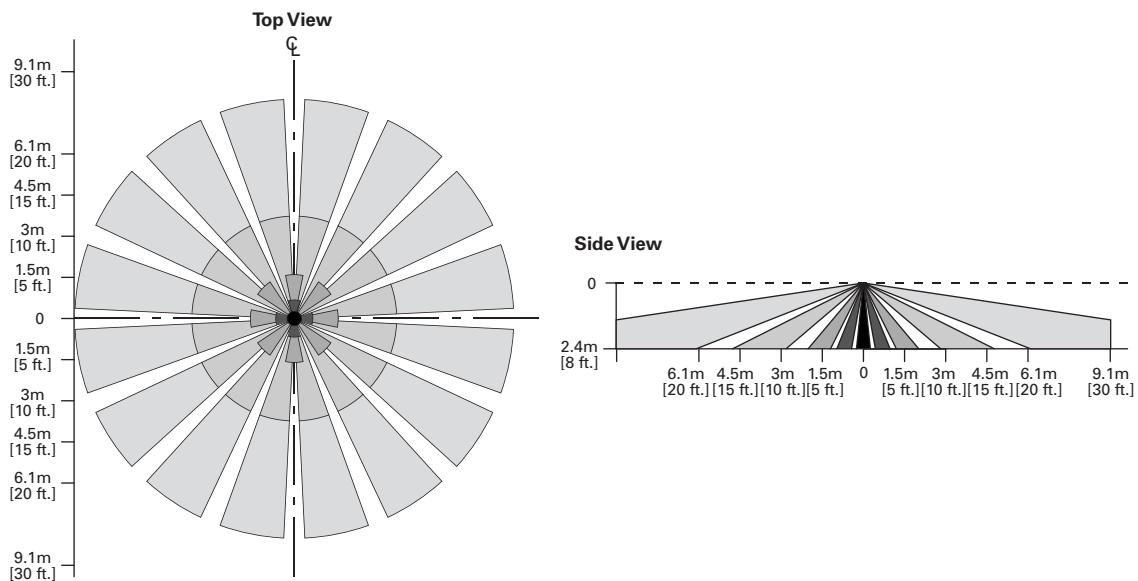
The next two modes, Twilight and Nighttime, function in a similar way, allowing the artificial light to adjust to different levels based on the surroundings. While primarily for use in outdoor luminaires, these modes are available for use in areas with a wide range of natural light, including atriums, day lit stairwells, and rooms with large or continuous windows. The Twilight mode is active when the sensor detects 50-100 lux in the off position, and has a 300 lux default light balancing target. The Nighttime mode is active when the sensor detects less than 50 lux, and has a 250 lux default light balancing target. Like the Daytime mode, there are separate settings for Twilight Occupied ("TO"), Twilight Unoccupied ("TU"), Nighttime Occupied ("NO") and Nighttime Unoccupied ("NU") which can be adjusted and set using the optional HHPRG-MS remote.

In addition to programming the sensor, the optional HHPRG-MS remote can be used for personal control to adjust the lighting temporarily override the functions of the sensor temporarily. The remote has raise/lower buttons to adjust the light level for special tasks, as well as a power button to turn the lights on or off. Unless the SET button and another function is selected, any changes made using these buttons will revert to the programmed settings after the sensor has detected no occupancy for its programmed time out, and turned off the lighting. The next time the sensor detects occupancy, it will revert to its programmed settings for count-down timer and light balancing.

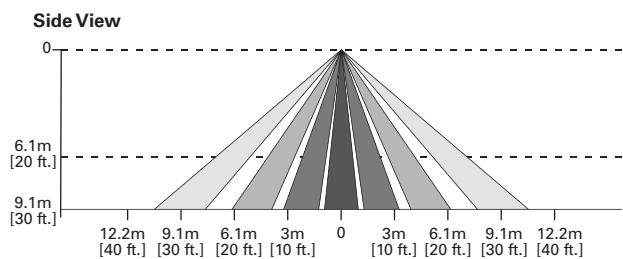
Coverage Patterns next page

Sensor Details - SkyBar Single

SVPD2 Coverage Pattern



SVPD3 Coverage Pattern



Optional Remote Control



HHPRG-MS Remote