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

# Metalux

## OHB LED High Efficacy

LED High Bay Efficiency Luminaire

**Typical Applications**

Industrial • Commercial • Manufacturing • Food Processing • Sports / Multi-Purpose

## Interactive Menu


- Order Information page 2
- Photometric Data page 3
- Connected Systems page 5
- Product Warranty


## Product Certification

## Product Features

Connected Systems

damp location

MWS MODULAR WIRING SYSTEM CLICK HERE

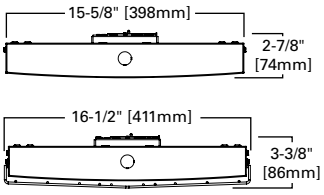
LINEAR DISCONNECT Safe and convenient means of disconnecting power

## Top Product Features

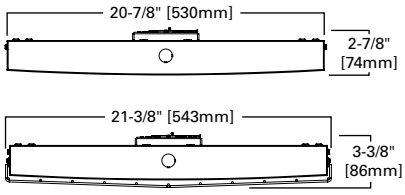
- Precision designed optical performance
- Offered in both standard and high efficacy versions
- High performance efficacy up to 210 lm/W
- Efficient 1-for-1 replacement of linear fluorescent & HID fixtures
- Lumen packages – 12K, 15K, 18K, 24K, 30K, 36K, 48K, 60K
- Narrow, medium, and wide distribution

## Dimensional and Mounting Details

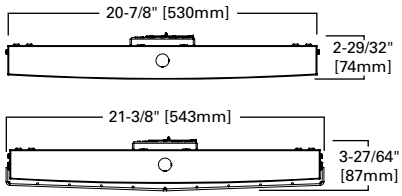
**OHB-12HE, 15HE, 18HE**



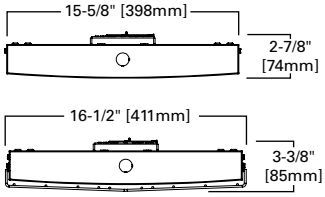

**OHB-24HE, 30HE**




**OHB-48HE, 60HE**




**OHB-36HE**




additional product diagrams

## Order Information

SAMPLE ORDER NUMBER: **OHB-24HE-MFL-UNV-L840-CD-U** Includes V Hangers for rapid installation

| Series | Revision | Lumen Packages/ High Efficacy | Distribution/Shielding | Voltage | CCT/CRI |
|---|---|---|---|---|---|
| **OHB**=Optimized High Bay | **[Blank]** | **12HE**=12,000 Lumens<br>**15HE**=15,000 Lumens<br>**18HE**=18,000 Lumens<br>**24HE**=24,000 Lumens<br>**30HE**=30,000 Lumens<br>**36HE**=36,000 Lumens<br>**48HE**=48,000 Lumens<br>**60HE**=60,000 Lumens (3) | **N**=Narrow<br>**MFL**=Medium Frosted<br>**MCL**=Medium Clear<br>**W**=Wide<br>**NL**=No Lens (4) | **120V**=120 Volt<br>**277V**=277 Volt<br>**347V**=347 Volt<br>**480V**=480 Volt<br>**UNV**=Universal Voltage 120-277<br>**UNC**=Universal Voltage 347/480 | **L730**=70CRI / 3000K<br>**L735**=70CRI / 3500K<br>**L740**=70CRI / 4000K<br>**L750**=70CRI / 5000K<br>**L830**=80CRI / 3000K<br>**L835**=80CRI / 3500K<br>**L840**=80CRI / 4000K<br>**L850**=80CRI / 5000K<br>**L930**=90CRI / 3000K<br>**L935**=90CRI / 3500K<br>**L940**=90CRI / 4000K<br>**L950**=90CRI / 5000K |
| **Notes**<br>(1) To order product that is compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act (TAA), use the online specification configurator to specify BAA or TAA. Please refer to DOMESTIC PREFERENCES LINK for more information. (2) DesignLights Consortium® Qualified and classified for both DLC Standard and DLC Premium, refer to www.designlights.org for details. | | **Notes**<br>(3) 60HE configuration not available with the combination of Sensors or EBP plus 347V, 480V, or UNC. | **Notes**<br>(4) NL (Non Lensed) versions not available with 36HE, 48HE, and 60HE lumen packages. | **Notes**<br>(5) Voltage must be specified when ordered with plugs or emergency drivers. (6) When ordering sensors option, specify as UNV (for 120V or 277V), 347V or 480V. (7) Ambient temperatures limited to 40C when using emergency, sensors, or 5LTD in conjunction with 347V or 480V. | |

| Options | Driver Type | Wiring | Options | Packaging |
|---|---|---|---|---|
| **EBP/TD**<br>**EL20W**= 20-watt 120V-277V emergency battery pack installed (8), (9), (12)<br>**EL20-W-REM**=20-watt 120V-277V emergency battery pack remote mounted (8), (9), (11)<br>**GTR2**=Bodine Generator Transfer Device (11)<br>**ETRD**=Iota Emergency Transfer Relay with dimming control (10) | **CD**=0-10V Dimming Driver<br>**5LTD**=Fifth Light DALI (13), (14) | **C3 (1)**=1 Circuit, 3' Cord with no Plug<br>**C3 (2)**=2 Circuits, 3' Cord with no Plug<br>**C6 (1)**=1 Circuit, 6' Cord with no Plug<br>**C6 (2)**=2 Circuits, 6' Cord with no Plug<br>**PC3/120**=(NEMA L5-15P) 3' Cord with NEMA Plug<br>**PC3/277**=(NEMA L7-15P) 3' Cord with NEMA Plug<br>**PC3/347**=(NEMA L24-20P) 3' Cord with NEMA Plug<br>**PC3/480**=(NEMA L8-20P) 3' Cord with NEMA Plug<br>**PC6/120**=(NEMA L5-15P) 6' Cord with NEMA Plug)<br>**PC6/277**=(NEMA L7-15P) 6' Cord with NEMA Plug)<br>**PC6/347**=(NEMA L24-20P) 6' Cord with NEMA Plug<br>**PC6/480**=(NEMA L8-20P) 6' Cord with NEMA Plug | **MP**=Modular Plug (16)<br>**PAF**=Painted After Fabrincation<br>**HA**=High Ambient (17), (18)<br>**Motion Sensors**<br>**MS**=360° or 180° Motion Sensor Installed, (specify voltage) (15)<br>**SVPD3**=Integrated Occupancy and Daylight Dimming Sensor, 1200 sq. ft. coverage (15)<br>**OEFP010VMV**=Occupancy Sensor with Integrated Photocell (15)<br>**FSP-211/L7-U**=PIR Occupancy Sensor with Integral 0-10V Dimming (15)<br>**LWR**=Enlighted Wireless Sensor system (15)<br>**ZW-SWPD3**=Integrated Wavelinx Wireless Sensor, 1200 sq ft. coverage (15)<br>**ZW**=WaveLinx Wireless Ready (does not include sensor) (15) | **U**=Unit Pack<br>**PALC**=Job Pack, in carton |
| **Notes**<br>(8) 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. (9) EM options available in 0°C - 45°C ambient. (10) 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. (11) GTR2 option is only available with 4ft fixtures (36K, 48K, and 60K lumens). (12) High Ambient not available with integrated emergency. | **Notes**<br>(13) Sensor or UNC not available in conjunction with 5LTD driver. (14) Ambient temperatures limited to 40C when using emergency, sensors, or 5LTD in conjunction with 347V or 480V. | | **Notes**<br>(15) When ordering sensor or EBP/TD option, specify as UNV (for 120V or 277V), 347V or 480V. (16) Requires use of MC or MPC cord accessories, specify voltage for plugs (MP). (17) High Ambient not available with integrated emergency. (18) Refer to Ambient Chart for temperature ratings. | |

### Accessories

| Accessories (order separately) |
|---|
| **OHB-WG162**=Wire guard for 12HE, 15HE, and 18HE<br>**OHB-WG222**=Wire guard for 24HE and 30HE<br>**OHB-WG164**=Wire guard for 36HE<br>**OHB-WG224**=Wire guard for 48HE and 60HE<br>**Y-TOGGLE**=Y Mounting Toggle, #2 Cable (Specify 10' or 30', requires 2 per fixture)<br>**FH-1**=Fixture Hook (20)<br>**FL-1**=Fixture Loop (20)<br>**OHB-SPM**=Single Point Mounting Hub (19)<br>**MPC3**=3' Modular Power Cord & Plug (Specify Voltage)<br>**MPC6**=6' Modular Power Cord & Plug (Specify Voltage)<br>**MC3**=3' Modular Power Cord<br>**MC6**=6' Modular Power Cord<br>**SWPD3**=WaveLinx Wireless Sensor (to be installed with "ZW" sensor ready fixtures only) |
| **Notes**<br>(19) OHB-SPM mounting not available with EL20W or ETRD options. (20) Must be used in conjunction with OHB-SPM accessory for proper installation. |

## Product Specifications

### Construction
- Rugged and durable scalable design with rigid, steel center channel
- Mechanically attached end caps provide strength and durability
- Suspension mounting with optional wire hook and chain set or cable; Single monopoint mounting with SPM tong hanger

### Electrical
- Long-Life LED system coupled with electrical driver for optimal performance
- LED's available in 3000K, 3500K, 4000K and 5000K with 70 CRI, 80 CRI and 90 CRI options
- Electronic drivers are available for 120-277V, 347V and 480V applications
- 0-10V dimming control (standard)
- Operating temperature of -40°C to 55°C (refer to chart)

### Emergency Battery Pack Option
- 20-watt, 120-277V integral emergency battery pack available to meet critical life-safety lighting requirements
- 90-minute batteries provide constant power to the LED system, ensuring code- compliance
- Emergency/generator transfer options available (see ordering information for details)

### Optics
- Precision designed optics deliver even illumination
- Offered in Narrow, medium and wide distributions

### Shielding
- Standard lensing provides additional LED protection and optical control
- Optional wire guards available for more complex environments

### Controls
- Integral occupancy sensor (SVPD3) option provides 600 sq. ft. to up to 1250 sq. ft. of coverage for occupancy sensing and daylight harvesting
- Integral 360° or 180° motion sensor
- Integrated Wavelinx Wireless Sensor option provides 1200 sq. ft. coverage
- WaveLinx wireless enabled (does not include sensor)

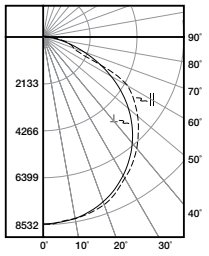
### Finish
- White enamel finish preceded by a multistage cleaning cycle
- Iron phosphate coating with rust inhibitor protects against contaminnts and oxidation

### Compliance
- cULus listed for damp locations
- 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)

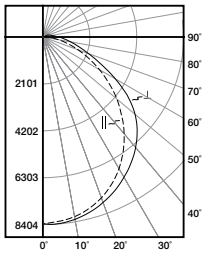
### Warranty
- Five year warranty standard.

## Photometric Data

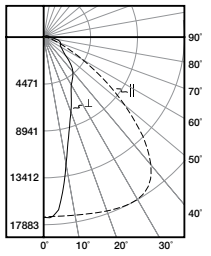
View IES files



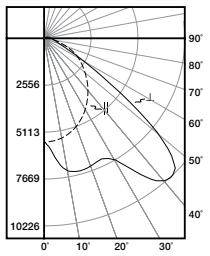

**OHB-24HE-MCL-UNV-L850-CD-U**
Electronic Driver
Linear LED 5000K
Spacing criterion: (II) 1.3 x mounting height, (⊥) 1.27 x mounting height
Lumens: 24645
Input Watts: 132W
Efficacy: 186.7 LPW
Test Report: OHB-24HE-MCL-UNV-L850-CD-U.IES




**OHB-24HE-MFL-UNV-L850-CD-U**
Electronic Driver
Linear LED 5000K
Spacing criterion: (II) 1.2 x mounting height, (⊥) 1.28 x mounting height
Lumens: 23894
Input Watts: 132W
Efficacy: 181 LPW
Test Report: OHB-24HE-MFL-UNV-L850-CD-U.IES




**OHB-24HE-N-UNV-L850-CD-U**
Electronic Driver
Linear LED 5000K
Spacing criterion: (II) 1.51 x mounting height, (⊥) 0.53 x mounting height
Lumens: 24029
Input Watts: 132W
Efficacy: 182 LPW
Test Report: OHB-24HE-N-UNV-L850-CD-U.IES




**OHB-24HE-W-UNV-L850-CD-U**
Electronic Driver
Linear LED 5000K
Spacing criterion: (II) 1.16 x mounting height, (⊥) 2.19 x mounting height
Lumens: 24377
Input Watts: 132W
Efficacy: 184.7 LPW
Test Report: OHB-24HE-W-UNV-L850-CD-U.IES

## Energy and Performance Data

| OHB - High Efficacy 5000K 70CRI | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Lumen Output | | | | | Watts | Efficacy (LPW) | | | | |
| Catalog Number | N | MFL | MCL | W | NL | 277V | N | MFL | MCL | W | NL |
| OHB-12HE | 13045 | 12971 | 13379 | 13234 | 13907 | 68 | 193 | 192 | 198 | 196 | 206 |
| OHB-15HE | 16113 | 16022 | 16526 | 16346 | 17178 | 83 | 193 | 192 | 198 | 196 | 206 |
| OHB-18HE | 19594 | 19484 | 20097 | 19879 | 20890 | 102 | 192 | 191 | 197 | 195 | 204 |
| OHB-24HE | 25526 | 25383 | 26181 | 25896 | 27214 | 132 | 194 | 193 | 199 | 197 | 207 |
| OHB-30HE | 32410 | 32228 | 33241 | 32880 | 34552 | 172 | 189 | 188 | 194 | 191 | 201 |
| OHB-36HE | 38345 | 38129 | 39328 | 38901 | – | 201 | 190 | 189 | 195 | 193 | – |
| OHB-48HE | 51874 | 51583 | 53205 | 52626 | – | 261 | 199 | 197 | 204 | 201 | – |
| OHB-60HE | 62913 | 62560 | 64527 | 63825 | – | 333 | 189 | 188 | 194 | 192 | – |

| OHB - High Efficacy 5000K 80CRI | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Lumen Output | | | | | Watts | Efficacy (LPW) | | | | |
| Catalog Number | N | MFL | MCL | W | NL | 277V | N | MFL | MCL | W | NL |
| OHB-12HE | 12279 | 12210 | 12594 | 12457 | 13091 | 68 | 182 | 181 | 187 | 185 | 194 |
| OHB-15HE | 15167 | 15082 | 15557 | 15387 | 16170 | 83 | 182 | 181 | 187 | 185 | 194 |
| OHB-18HE | 18445 | 18341 | 18918 | 18712 | 19664 | 102 | 180 | 179 | 185 | 183 | 192 |
| OHB-24HE | 24029 | 23894 | 24645 | 24377 | 25617 | 132 | 183 | 182 | 187 | 185 | 195 |
| OHB-30HE | 30509 | 30337 | 31291 | 30951 | 32525 | 172 | 178 | 177 | 182 | 180 | 189 |
| OHB-36HE | 36095 | 35893 | 37021 | 36619 | – | 201 | 179 | 178 | 184 | 182 | – |
| OHB-48HE | 48831 | 48557 | 50084 | 49539 | – | 261 | 187 | 186 | 192 | 190 | – |
| OHB-60HE | 59222 | 58890 | 60742 | 60081 | – | 333 | 178 | 177 | 182 | 180 | – |

### Ambient Ratings

| Lumen Package | Ambient Rated | (HA) High Ambinet | EM |
|---|---|---|---|
| OHB-12HE | 55°C | – | 45°C |
| OHB-15HE | 55°C | – | 45°C |
| OHB-18HE | 45°C | 55°C | 45°C |
| OHB-24HE | 55°C | – | 45°C |
| OHB-30HE | 55°C | – | 45°C |
| OHB-36HE | 45°C | 55°C | 45°C |
| OHB-48HE | 55°C | – | 45°C |
| OHB-60HE | 55°C | – | 45°C |

### Energy Data

| Input Watts: |
|---|
| 12HE (12,000 lumens)=68W |
| 15HE (15,000 lumens)=83W |
| 18HE (18,000 lumens)=120W |
| 24HE (24,000 lumens)=132W |
| 30HE (30,000 lumens)=172W |
| 36HE (36,000 lumens)=2101W |
| 48HE (48,000 lumens)=263W |
| 60HE (60,000 lumens)=334W |

### Shipping Data

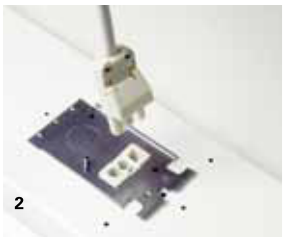
| Catalog No. | Wt. |
|---|---|
| OHB-12HE | 10 lbs. |
| OHB-15HE | 13 lbs. |
| OHB-18HE | 13 lbs. |
| OHB-24HE | 13 lbs. |
| OHB-30HE | 16 lbs. |
| OHB-36HE | 20 lbs. |
| OHB-48HE | 20 lbs. |
| OHB-60HE | 20 lbs. |

### Modular Power Supply Option

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 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.***

### Lumen Maintenance

| Ambient Temperature | TM-21 Lumen Maintenance (60,000 hours) | Theoretical L70 (Hours) |
|---|---|---|
| 25°C | > 96% | > 240,000 |



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.

### Code Compliance

- UL/cUL Certified for Make/Break under load (UL2549)
- Meets NEC requirements for ballast disconnect (NEC 410.73G)
- Receptacle complete with insulating/dust cap

## Control Systems

- WaveLinx Wireless
- WaveLinx Wired
- WaveLinx Lite

Connected Systems CLICK HERE

## Systems comparison chart

Cooper Lighting Solutions provides many lighting system solutions designed to satisfy code requirements and meet the unique needs of any project.

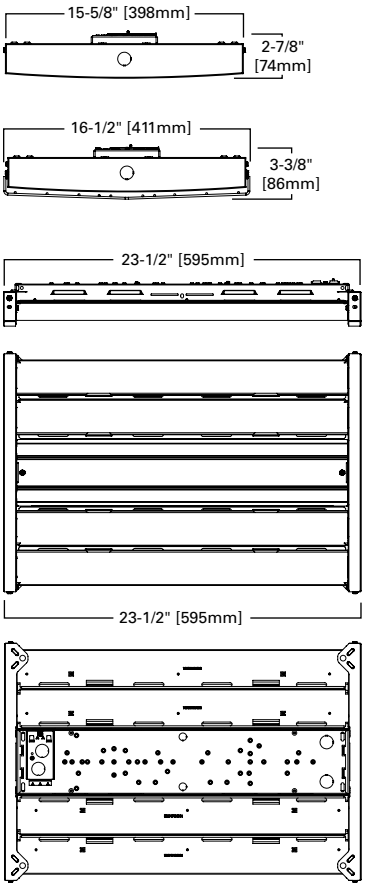
| | Standalone | Controlled<br>WaveLinx Lite | Connected<br>WaveLinx Wireless | Enterprise<br>Trellix |
|---|---|---|---|---|
| **Occupancy** | Yes | Yes | Yes | Yes |
| **Daylighting** | Yes | Yes | Yes | Yes |
| **Gateways** | – | – | 1 WAC | 300 WACs |
| **Devices** | – | 50 per Area (1400 per site) | 150 per WAC | 45,000 per Core Enterprise |
| **Software** | – | WaveLinx Lite Mobile App | WaveLinx Mobile App | Trellix Core |
| **Areas** | – | 28 per Site | 16 per WAC | up to 4,800 |
| **Zones** | – | 16 per Area | 16 per Area | up to 76,800 |
| **Scheduling** | – | – | Local | Global |
| **VividTune™** | – | – | Yes | Yes |
| **Plug-Load Control** | – | – | Yes | Yes |
| **Low-Voltage Power** | – | – | Yes | Yes |
| **Integration** | – | – | – | BACnet, API |
| **Dashboards** | – | – | – | Energy, Occupancy |
| **Configuration** | – | Installer | Technician | Technician / IT |

SCALABILITY

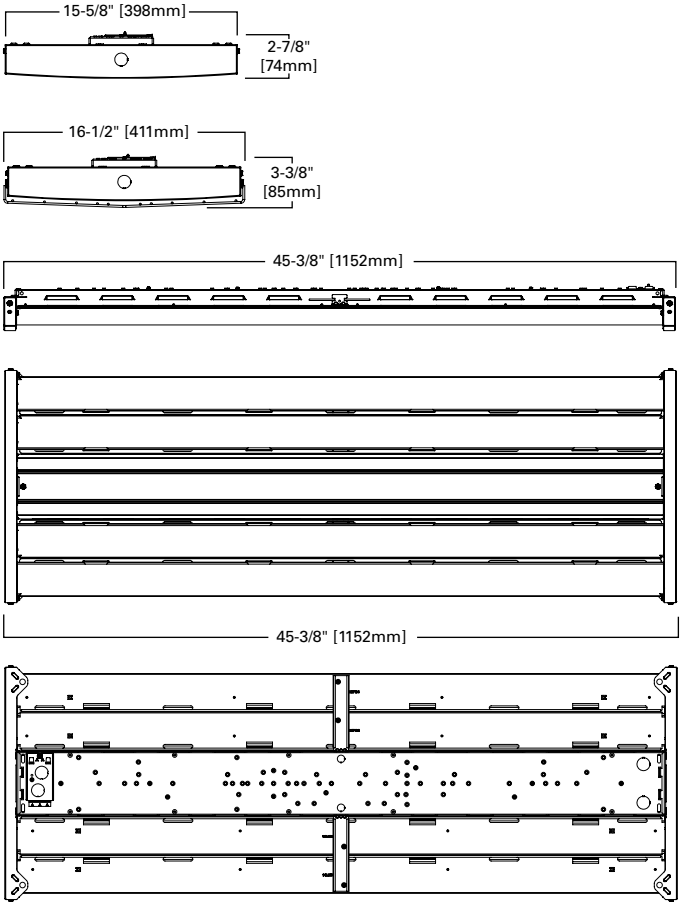
devices → areas → floors → buildings

## Dimensional and Mounting Details

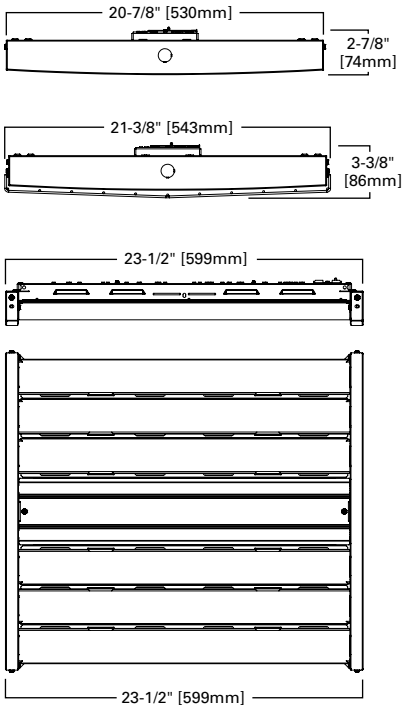
**OHB-12HE, 15HE, 18HE**



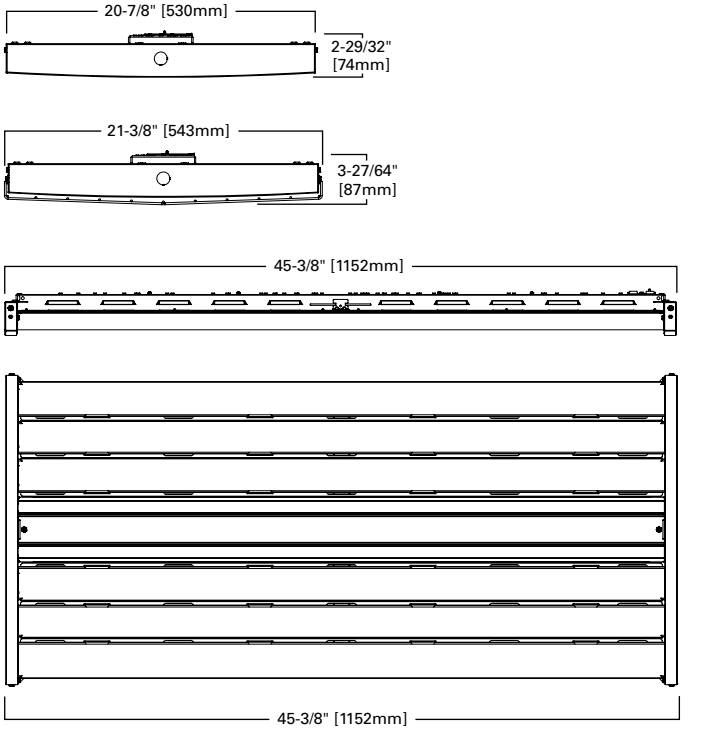

**OHB-36HE**




**OHB-24HE, 30HE**




**OHB-48HE, 60HE**






**Cooper Lighting Solutions**
1121 Highway 74 South
Peachtree City, GA 30269
P: 770-486-4800
www.cooperlighting.com

© 2021 Cooper Lighting Solutions
All Rights Reserved.

Specifications and dimensions subject to change without notice.