

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



# Metalux

## OHB LED Standard 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

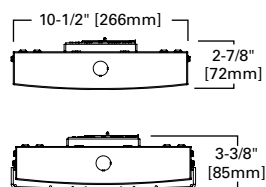


#### Top Product Features

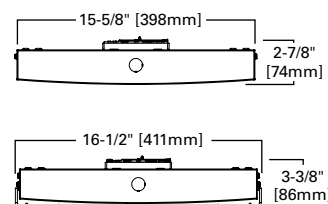
- Precision designed optical performance
- Offered in both standard and high efficacy versions
- High performance efficacy up to 210 lm/W
- Efficient 1-for-1 replacement of linear fluorescent & HID fixtures
- Lumen packages – 12K, 15K, 18K, 24K, 30K, 36K, 48K, 60K
- Narrow, medium, and wide distribution

#### Dimensional and Mounting Details

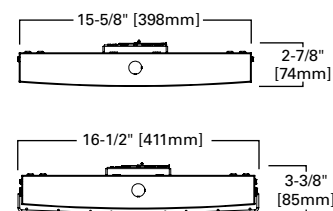
OHB-12SE, 15SE



OHB-18SE, 24SE, 30SE



OHB-36SE, 48SE, 60SE



[additional product diagrams](#)

## Order Information

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

| Series                                                                                                                                                                  | Revision       | Lumen Packages/<br>Standard Efficacy                                                                                                                                                                                                         | Distribution/Shielding                                                                                                             | Voltage                                                                                                                                                                                                                                                                                                                  | CCT/CRI                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Series <sup>(16)</sup>                                                                                                                                                  | Revision       | Lumen Packages /<br>Standard Efficacy                                                                                                                                                                                                        | Distribution/Shielding                                                                                                             | Voltage <sup>(1), (2), (13)</sup>                                                                                                                                                                                                                                                                                        | CCT/CRI                                                                                                                                                                                                                                                                                                                                                              |
| <b>OHB</b> =Optimized High Bay                                                                                                                                          | <b>[Blank]</b> | <b>12SE</b> =12,000 Lumens<br><b>15SE</b> =15,000 Lumens<br><b>18SE</b> =18,000 Lumens<br><b>24SE</b> =24,000 Lumens<br><b>30SE</b> =30,000 Lumens<br><b>36SE</b> =36,000 Lumens<br><b>48SE</b> =48,000 Lumens<br><b>60SE</b> =60,000 Lumens | <b>N</b> =Narrow<br><b>MFL</b> =Medium Frosted<br><b>MCL</b> =Medium Clear<br><b>W</b> =Wide<br><b>NL</b> =No Lens <sup>(15)</sup> | <b>120V</b> =120 Volt<br><b>277V</b> =277 Volt<br><b>347V</b> =347 Volt<br><b>480V</b> =480 Volt<br><b>UNV</b> =Universal Voltage 120-277<br><b>UNC</b> =Universal Voltage 347/480                                                                                                                                       | <b>L730</b> =70CRI / 3000K<br><b>L735</b> =70CRI / 3500K<br><b>L740</b> =70CRI / 4000K<br><b>L750</b> =70CRI / 5000K<br><b>L830</b> =80CRI / 3000K<br><b>L835</b> =80CRI / 3500K<br><b>L840</b> =80CRI / 4000K<br><b>L850</b> =80CRI / 5000K<br><b>L930</b> =90CRI / 3000K<br><b>L935</b> =90CRI / 3500K<br><b>L940</b> =90CRI / 4000K<br><b>L950</b> =90CRI / 5000K |
| <b>Notes</b><br><small>(16) DesignLights Consortium® Qualified and classified for both DLC Standard and DLC Premium, refer to www.designlights.org for details.</small> |                |                                                                                                                                                                                                                                              | <b>Notes</b><br><small>(15) (NL) Non lens version not available with 36SE, 48SE, and 60SE lumen packages.</small>                  | <b>Notes</b><br><small>(1) Voltage must be specified when ordered with plugs or emergency drivers. (2) When ordering sensor or EBP/TD option, specify as UNV (for 120V or 277V), 347V or 480V. (13) Ambient temperatures limited to 40C when using emergency, sensors, or SLTD in conjunction with 347V or 480V.</small> |                                                                                                                                                                                                                                                                                                                                                                      |

| Options                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Driver Type                                                                                      | Wiring                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Options                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Packaging                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| Options                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Driver Type                                                                                      | Wiring                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Options                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Packaging                                               |
| <b>EBP/TD</b><br><b>EL20W</b> =20-watt 120V-277V emergency battery pack installed <sup>(4), (5), (8), (12), (13)</sup><br><b>EL20-W-REM</b> =20-watt 120V-277V emergency battery pack remote mounted <sup>(4), (5), (12), (13)</sup><br><b>GTR2</b> =Bodine Generator Transfer Device <sup>(7)</sup><br><b>ETRD</b> =Iota Emergency Transfer Relay with dimming control <sup>(6), (8)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>CD</b> =0-10V Dimming Driver<br><b>SLTD</b> =Fifth Light DALI <sup>(14)</sup>                 | <b>C3 (1)</b> =1 Circuit, 3' Cord with no Plug<br><b>C3 (2)</b> =2 Circuits, 3' Cord with no Plug<br><b>C6 (1)</b> =1 Circuit, 6' Cord with no Plug<br><b>C6 (2)</b> =2 Circuits, 6' Cord with no Plug<br><b>PC3/120</b> =(NEMA L5-15P) 3' Cord with NEMA Plug<br><b>PC3/277</b> =(NEMA L7-15P) 3' Cord with NEMA Plug<br><b>PC3/347</b> =(NEMA L24-20P) 3' Cord with NEMA Plug<br><b>PC3/480</b> =(NEMA L8-20P) 3' Cord with NEMA Plug<br><b>PC6/120</b> =(NEMA L5-15P) 6' Cord with NEMA Plug<br><b>PC6/277</b> =(NEMA L7-15P) 6' Cord with NEMA Plug<br><b>PC6/347</b> =(NEMA L24-20P) 6' Cord with NEMA Plug<br><b>PC6/480</b> =(NEMA L8-20P) 6' Cord with NEMA Plug | <b>MP</b> =Modular Plug <sup>(3)</sup><br><b>PAF</b> =Painted After Fabrication<br><b>HA</b> =High Ambient <sup>(9)</sup><br><b>Motion Sensors</b><br><b>MS</b> =360° or 180° Motion Sensor Installed, (specify voltage) <sup>(2)</sup><br><b>SVDP3</b> =Integrated Occupancy and Daylight Dimming Sensor, 1200 sq. ft. coverage <sup>(2)</sup><br><b>OEFP010VMV</b> =Occupancy Sensor with Integrated Photocell <sup>(2)</sup><br><b>FSP-211/L7-U</b> =PIR Occupancy Sensor with integral 0-10V Dimming <sup>(2)</sup><br><b>LWR</b> =LumaWatt Wireless Sensor system <sup>(2)</sup><br><b>ZW-SWPD3</b> =Integrated Wavelinx Wireless Sensor, 1200 sq. ft. coverage <sup>(2)</sup><br><b>ZW</b> =WaveLinX Wireless Ready (does not include sensor) <sup>(2)</sup> | <b>U</b> =Unit Pack<br><b>PALC</b> =Job Pack, in carton |
| <b>Notes</b><br><small>(4) For approximate delivered lumens multiply the lumens per watt of the desired fixture by the wattage of the emergency battery pack. (5) EM options available in 0°C - 45°C ambient. (6) 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. (7) GTR2 option only available with 4ft fixture (36K, 48K, and 60K lumens). (8) OHB-SPM mounting not available with EL20W or ETRD options. (12) Refer to Ambient Chart for temperature ratings. (13) Ambient temperatures limited to 40C when using emergency, sensors, or SLTD in conjunction with 347V or 480V.</small> | <b>Notes</b><br><small>(14) Sensor or UNC not available in conjunction with SLTD driver.</small> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Notes</b><br><small>(2) When ordering sensor or EBP/TD option, specify as UNV (for 120V or 277V), 347V or 480V. (3) Requires use of MC or MPC cord accessories, specify voltage for plugs (MP). (9) High Ambient not available with integrated emergency.</small>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                         |

## Accessories

| Accessories (order separately)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>OHB-WG112</b> =Wire guard for 12SE and 15SE<br><b>OHB-WG162</b> =Wire guard for 18SE, 24SE, and 30SE<br><b>OHB-WG164</b> =Wire guard for 36SE, 48SE, and 60SE<br><b>Y-TOGGLE</b> =Y Mounting Toggle, #2 Cable (Specify 10' or 30")<br><b>FH-1</b> =Fixture Hook <sup>(11)</sup><br><b>FL-1</b> =Fixture Loop <sup>(11)</sup><br><b>OHB-SPM</b> =Single Point Mounting Hub <sup>(9)</sup><br><b>MPC3</b> =3' Modular Power Cord & Plug (Specify Voltage)<br><b>MPC6</b> =6' Modular Power Cord & Plug (Specify Voltage)<br><b>MC3</b> =3' Modular Power Cord<br><b>MC6</b> =6' Modular Power Cord<br><b>SWPD3</b> =WaveLinX Wireless Sensor (to be installed with "ZW" sensor ready fixtures only) |
| <b>Notes</b><br><small>(9) High Ambient not available with integrated emergency. (11) Must be used in conjunction with OHB-SPM accessory for proper installation.</small>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## 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 option provides 600 sq. ft. to up to 1250 sq. ft. of coverage in a maximum mounting height of 45' for occupancy sensing and daylight harvesting
- Integral 360° or 180° motion sensor
- LumaWatt wireless sensor system option
- 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 contaminants and oxidation

### Compliance

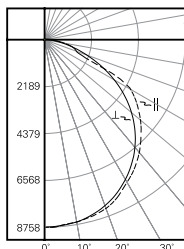
- cULus listed for damp locations
- LED modules comply with IESNA LM-79 and LM-80 standards
- DesignLights Consortium® Qualified and classified for both DLC Standard and DLC Premium (refer to www.designlights.org for details)

### Warranty

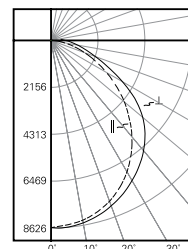
- Five year warranty standard.

## Photometric Data

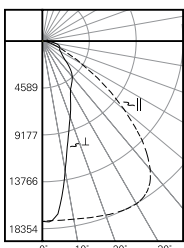
[View IES files](#)



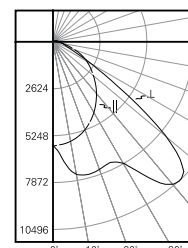
**OHB-24SE-MCL-UNV-L850-CD-U**  
 Electronic Driver  
 Linear LED 5000K  
 Spacing criterion: (H) 1.3 x mounting height,  
 (L) 1.27 x mounting height  
 Lumens: 25295  
 Input Watts: 148W  
 Efficacy: 171 LPW  
 Test Report: OHB-24SE-MCL-UNV-L850-CD-U.IES



**OHB-24SE-MFL-UNV-L850-CD-U**  
 Electronic Driver  
 Linear LED 5000K  
 Spacing criterion: (H) 1.2 x mounting height,  
 (L) 1.28 x mounting height  
 Lumens: 24524  
 Input Watts: 148W  
 Efficacy: 166 LPW  
 Test Report: OHB-24SE-MFL-UNV-L850-CD-U.IES



**OHB-24SE-N-UNV-L850-CD-U**  
 Electronic Driver  
 Linear LED 5000K  
 Spacing criterion: (H) 1.51 x mounting height,  
 (L) 0.53 x mounting height  
 Lumens: 24662  
 Input Watts: 148W  
 Efficacy: 167 LPW  
 Test Report: OHB-24SE-N-UNV-L850-CD-U.IES



**OHB-24SE-W-UNV-L850-CD-U**  
 Electronic Driver  
 Linear LED 5000K  
 Spacing criterion: (H) 1.16 x mounting height,  
 (L) 2.19 x mounting height  
 Lumens: 25020  
 Input Watts: 148W  
 Efficacy: 169 LPW  
 Test Report: OHB-24SE-W-UNV-L850-CD-U.IES

## Energy and Performance Data by Catalog Number

| OHB - Standard Efficacy 5000K 70CRI |              |       |       |       |       |       |                |     |     |     |     |
|-------------------------------------|--------------|-------|-------|-------|-------|-------|----------------|-----|-----|-----|-----|
| Catalog Number                      | Lumen Output |       |       |       |       | Watts | Efficacy (LPW) |     |     |     |     |
|                                     | N            | MFL   | MCL   | W     | NL    | 277V  | N              | MFL | MCL | W   | NL  |
| OHB-12SE                            | 13083        | 13009 | 13418 | 13272 | 13947 | 77    | 170            | 169 | 174 | 173 | 181 |
| OHB-15SE                            | 15964        | 15875 | 16374 | 16196 | 17019 | 98    | 163            | 162 | 167 | 166 | 174 |
| OHB-18SE                            | 20385        | 20270 | 20907 | 20680 | 21732 | 111   | 184            | 183 | 189 | 187 | 196 |
| OHB-24SE                            | 26200        | 26052 | 26872 | 26579 | 27931 | 148   | 177            | 176 | 182 | 180 | 189 |
| OHB-30SE                            | 31721        | 31543 | 32535 | 32181 | 33818 | 187   | 170            | 169 | 174 | 172 | 181 |
| OHB-36SE                            | 38724        | 38506 | 39717 | 39285 | –     | 215   | 180            | 179 | 184 | 182 | –   |
| OHB-48SE                            | 51180        | 50893 | 52493 | 51922 | –     | 290   | 177            | 176 | 181 | 179 | –   |
| OHB-60SE                            | 63442        | 63086 | 65069 | 64362 | –     | 373   | 170            | 169 | 174 | 172 | –   |

| OHB - Standard Efficacy 5000K 80CRI |              |       |       |       |       |       |                |     |     |     |     |
|-------------------------------------|--------------|-------|-------|-------|-------|-------|----------------|-----|-----|-----|-----|
| Catalog Number                      | Lumen Output |       |       |       |       | Watts | Efficacy (LPW) |     |     |     |     |
|                                     | N            | MFL   | MCL   | W     | NL    | 277V  | N              | MFL | MCL | W   | NL  |
| OHB-12SE                            | 12315        | 12246 | 12631 | 12494 | 13129 | 77    | 160            | 159 | 164 | 162 | 171 |
| OHB-15SE                            | 15028        | 14943 | 15413 | 15246 | 16021 | 98    | 154            | 153 | 158 | 156 | 164 |
| OHB-18SE                            | 19189        | 19081 | 19681 | 19467 | 20457 | 111   | 173            | 172 | 178 | 176 | 185 |
| OHB-24SE                            | 24662        | 24524 | 25295 | 25020 | 26293 | 148   | 167            | 166 | 171 | 169 | 178 |
| OHB-30SE                            | 29860        | 29692 | 30626 | 30293 | 31834 | 187   | 160            | 159 | 164 | 162 | 171 |
| OHB-36SE                            | 36452        | 36247 | 37387 | 36981 | –     | 215   | 169            | 168 | 174 | 172 | –   |
| OHB-48SE                            | 48178        | 47907 | 49414 | 48876 | –     | 290   | 166            | 165 | 170 | 169 | –   |
| OHB-60SE                            | 59720        | 59385 | 61252 | 60586 | –     | 373   | 160            | 159 | 164 | 162 | –   |

## Ambient Ratings

| Lumen Package | Standard | (HA) High Ambient | EM   |
|---------------|----------|-------------------|------|
| OHB-12SE      | 55°C     | –                 | 45°C |
| OHB-15SE      | 45°C     | 55°C              | 45°C |
| OHB-18SE      | 45°C     | 55°C              | 45°C |
| OHB-24SE      | 55°C     | –                 | 45°C |
| OHB-30SE      | 45°C     | 50°C              | 45°C |
| OHB-36SE      | 45°C     | 55°C              | 45°C |
| OHB-48SE      | 55°C     | –                 | 45°C |
| OHB-60SE      | 50°C     | –                 | 45°C |

## Energy Data

| Input Watts:              |
|---------------------------|
| 12SE (12,000 lumens)=77W  |
| 15SE (15,000 lumens)=98W  |
| 18SE (18,000 lumens)=111W |
| 24SE (24,000 lumens)=148W |
| 30SE (30,000 lumens)=188W |
| 36SE (36,000 lumens)=215W |
| 48SE (48,000 lumens)=290W |
| 60SE (60,000 lumens)=373W |

## Shipping Data

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



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.

## Lumen Maintenance

| Ambient Temperature | TM-21 Lumen Maintenance (60,000 hours) | Theoretical L70 (Hours) |
|---------------------|----------------------------------------|-------------------------|
| 25°C                | > 84%                                  | > 117,000               |

## 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

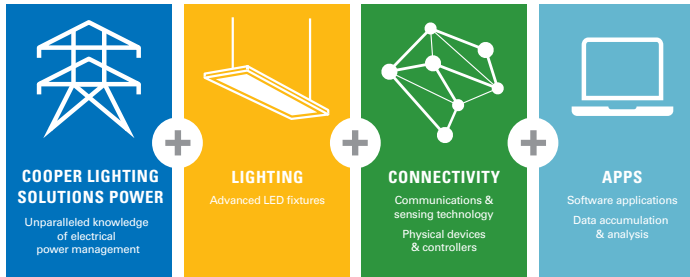
## Control Systems

- WaveLinX
- DLVP
- LumaWatt Pro
- iLumin Plus
- VividTune



Connected Systems  
[CLICK HERE](#)

## We make connections work



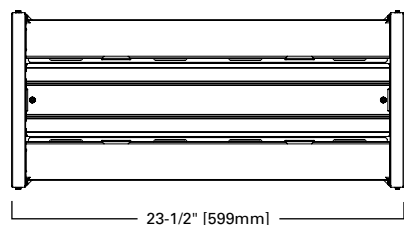
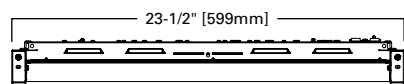
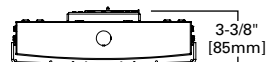
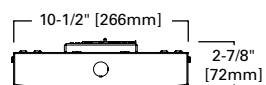
## Systems comparison chart

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

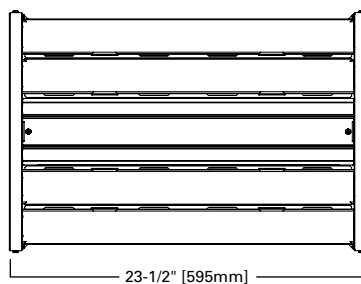
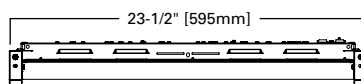
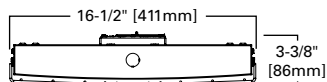
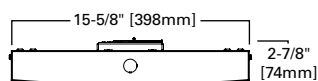
|                                       | Distributed Low-Voltage Power System | WaveLinX         | LumaWatt Pro |
|---------------------------------------|--------------------------------------|------------------|--------------|
| Space type                            | Interior                             | Interior/Outdoor | Any          |
| Stand-alone or Network                | Stand-alone                          | Both             | Network      |
| Need-based feature progression        |                                      |                  |              |
| Basic compliance only                 | ●                                    | ●                | ●            |
| Occupancy sensing                     | ●                                    | ●                | ●            |
| Daylight harvesting                   | ●                                    | ●                | ●            |
| Zone control                          | ●                                    | ●                | ●            |
| Scheduling                            | ●                                    | ●                | ●            |
| 0-10V dimming                         | ●                                    | ●                | ●            |
| Individual fixture control            | ●                                    | ●                | ●            |
| Retrofit+Building Integration         | ●                                    | ●                | ●            |
| Total wireless connectivity           |                                      | ●                | ●            |
| A/V integration                       |                                      | ●                | ●            |
| BMS integration                       |                                      | ●                | ●            |
| UI options (touchscreen, apps, etc.)  |                                      | ●                | ●            |
| Enterprise level building integration |                                      | ●                | ●            |
| Facility management & tools           |                                      | ●                | ●            |
| Floor plan & reporting tools          |                                      |                  | ●            |
| Value-added services                  |                                      |                  | ●            |
| Asset tracking                        |                                      |                  | ●            |
| API integration                       |                                      | ●                | ●            |
| Analytics/higher problem solving      |                                      |                  | ●            |

## Dimensional and Mounting Details

OHB-12SE, 15SE



OHB-18SE, 24SE, 30SE



OHB-36SE, 48SE, 60SE

