

## DESCRIPTION

The HBL series is ideal for high mounting height industrial or retail applications. Advanced optical designs provide maximum performance from either T5 or T8 lamps. Optional upright component produces excellent ceiling uniformity. HBL's high lumen package allows the benefits of fluorescent to be applied at high mounting heights that were traditionally exclusive to H.I.D. Benefits include exceptional color rendering, high system efficacy, 95% lumen maintenance, long lamp life, instant on/instant re-strike, economical dimming, and uniform brightness control. Typical HBL applications include retail, shopping malls, light industrial and recreational environments.

## SPECIFICATION FEATURES

### Construction

Channel and end plates are constructed of die formed steel. The channel provides strength, numerous KOs for easy installation, and excellent thermal dissipation without any special or proprietary components. Stiffening brackets add additional strength and rigidity to channel and reflectors.

### Electrical

The HBL comes with a standard Class "P" electronic ballast and twist-lock lampholders. UL/cUL listed for high ambient environments up to 55°C (131°F) for all lamp and ballast combinations listed. Suitable for damp locations.

### Finish

Electrostatically applied baked white enamel finish is preceded by a multistage cleaning cycle, iron phosphate coating with rust inhibitor.

### Optics

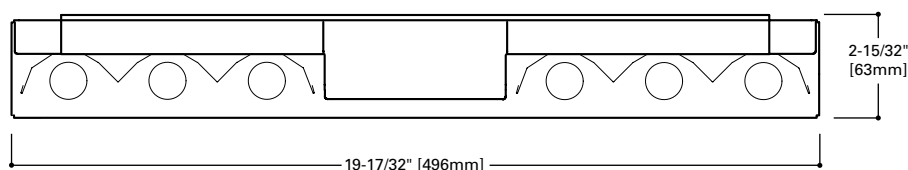
Die formed, segmented optical design optimizes performance across three distributions. Optical choices include a narrow distribution for aisles, medium distribution for assembly and loading areas, or wide distribution for general, open area lighting. An upright option is offered to permit ceiling uniformity and allow for ample lamp and luminaire heat dissipation.

### Warranty

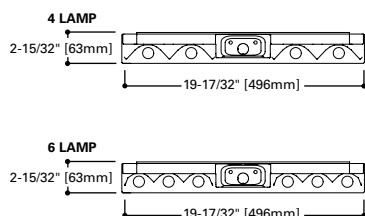
When operated in high ambient conditions, the HBL is supported by a 5 yr/55°C and 3 yr/65°C ballast warranty for T5 and T8 (277V) options when used w/ high temperature ballast in open, upright configurations. To maximize your warranty, the HBL should be ordered with a high-temperature ballast in ambient environments that typically exceed 40°C (102°F).

### Compliance

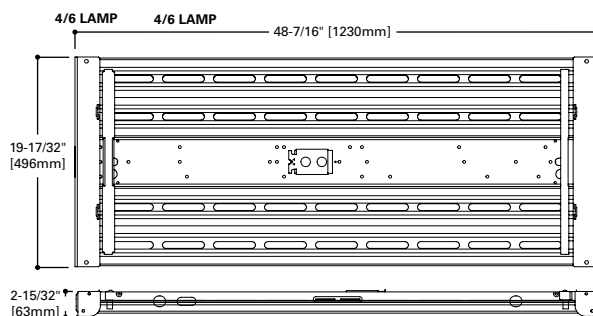
Options to meet Buy American and other domestic preference requirements.



## LAMP CONFIGURATIONS



## DIMENSION TOP VIEW



## HBL SERIES

### 4 OR 6 T8 LAMPS

High-Bay Industrial Open Luminaire



## ENERGY DATA

Input Watts:  
**EB Ballast and STD Lamps**  
 432=109  
 632=167

Luminaire Efficacy Rating  
**LER = 88** (White)  
**LER = 90** (Specular Inserts)  
**Catalog Number:** HBL-632-UPL

**Yearly Cost of 1000 lumens,**  
**3000 hrs at .08 KWH = \$2.67**

\*Reference the lamp/ballast data in the Technical Section for specific lamp/ballast requirements.

\*\*Consult Pre Sales Technical Support.

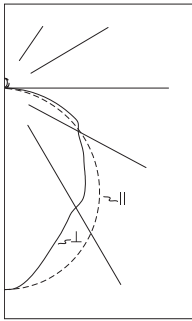
**LAMPS CONTAIN MERCURY. DISPOSE ACCORDING TO LOCAL, STATE OR FEDERAL LAWS**

## LINEAR DISCONNECT

Safe and convenient means of disconnecting power.

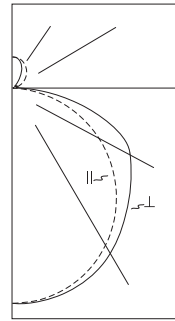


## PHOTOMETRICS



**HBL-632-N-UPL**  
**Narrow Distribution**  
 (2) Electronic Plus  
 Ballasts  
 (6) F32/T8/TL835 32W  
 T8 lamps, 3100 lumens  
 Spacing criterion:  
 (II) 1.3 x mounting  
 height, (⊥) 1.0 x  
 mounting height  
 Efficiency 95.9%  
 Test Report:  
 HBL632NUPL.IES  
 LER =90  
 Yearly Cost of 1000  
 lumens, 3000 hrs at  
 .08 KWH = \$2.67

| Candela |          |      |          |  |
|---------|----------|------|----------|--|
| Angle   | Along II | 45°  | Across ⊥ |  |
| 0       | 6445     | 6445 | 6445     |  |
| 5       | 6418     | 6359 | 6322     |  |
| 10      | 6339     | 6092 | 5913     |  |
| 15      | 6200     | 5715 | 5455     |  |
| 20      | 6008     | 5300 | 5075     |  |
| 25      | 5761     | 4910 | 4736     |  |
| 30      | 5464     | 4549 | 4478     |  |
| 35      | 5119     | 4178 | 4363     |  |
| 40      | 4731     | 3898 | 4043     |  |
| 45      | 4302     | 3674 | 3636     |  |
| 50      | 3840     | 3287 | 3321     |  |
| 55      | 3346     | 2841 | 2987     |  |
| 60      | 2827     | 2482 | 2737     |  |
| 65      | 2286     | 2118 | 2614     |  |
| 70      | 1732     | 1892 | 2148     |  |
| 75      | 1179     | 1543 | 1622     |  |
| 80      | 654      | 1018 | 1094     |  |
| 85      | 201      | 522  | 592      |  |
| 90      | 3        | 117  | 182      |  |



**HBL-632-W-UNV-EB82-UPL**  
**Wide Distribution**  
 (2) Electronic Plus  
 Ballasts  
 (6) F32T8/835 32WT8  
 lamps, 3100 lumens  
 Spacing criterion:  
 (II) 1.3 x mounting  
 height, (⊥) 1.3 x  
 mounting height  
 Efficiency 90.5%  
 Test Report:  
 HBL632WUPL.IES  
 LER =88  
 Yearly Cost of 1000  
 lumens, 3000 hrs at  
 .08 KWH = \$2.73

| Candela |          |      |          |  |
|---------|----------|------|----------|--|
| Angle   | Along II | 45°  | Across ⊥ |  |
| 0       | 4685     | 4685 | 4685     |  |
| 5       | 4663     | 4674 | 4692     |  |
| 10      | 4608     | 4631 | 4654     |  |
| 15      | 4512     | 4555 | 4594     |  |
| 20      | 4380     | 4446 | 4503     |  |
| 25      | 4209     | 4303 | 4374     |  |
| 30      | 4000     | 4121 | 4203     |  |
| 35      | 3762     | 3909 | 4000     |  |
| 40      | 3492     | 3658 | 3774     |  |
| 45      | 3195     | 3377 | 3562     |  |
| 50      | 2870     | 3081 | 3354     |  |
| 55      | 2527     | 2785 | 3150     |  |
| 60      | 2165     | 2500 | 2962     |  |
| 65      | 1781     | 2230 | 2707     |  |
| 70      | 1384     | 1985 | 2246     |  |
| 75      | 975      | 1569 | 1685     |  |
| 80      | 569      | 1025 | 1107     |  |
| 85      | 200      | 500  | 566      |  |
| 90      | 3        | 111  | 177      |  |

## Coefficients of Utilization

| rc<br>rw<br>RCR | Effective floor cavity reflectance |     |     |     |     |     |     |     |     |     |     |    | 20% |    |    |    |     |    |    |    |    |    |    |   |
|-----------------|------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|----|----|----|-----|----|----|----|----|----|----|---|
|                 | 80%                                |     |     |     | 70% |     |     |     | 50% |     |     |    | 30% |    |    |    | 10% |    |    |    | 0% |    |    |   |
|                 | 70                                 | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50 | 30  | 10 | 50 | 30 | 10  | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| 0               | 113                                | 113 | 113 | 113 | 110 | 110 | 110 | 110 | 104 | 104 | 104 | 99 | 99  | 99 | 94 | 94 | 94  | 92 |    |    |    |    |    |   |
| 1               | 103                                | 98  | 93  | 89  | 100 | 95  | 91  | 88  | 90  | 87  | 84  | 86 | 83  | 81 | 82 | 80 | 78  | 75 |    |    |    |    |    |   |
| 2               | 93                                 | 85  | 78  | 72  | 90  | 82  | 76  | 71  | 78  | 73  | 69  | 75 | 70  | 66 | 71 | 68 | 64  | 62 |    |    |    |    |    |   |
| 3               | 85                                 | 74  | 66  | 60  | 82  | 72  | 65  | 59  | 69  | 62  | 57  | 66 | 60  | 56 | 63 | 58 | 54  | 52 |    |    |    |    |    |   |
| 4               | 77                                 | 66  | 57  | 50  | 75  | 64  | 56  | 50  | 61  | 54  | 49  | 58 | 52  | 47 | 56 | 51 | 46  | 44 |    |    |    |    |    |   |
| 5               | 71                                 | 58  | 50  | 43  | 69  | 57  | 49  | 43  | 55  | 47  | 42  | 52 | 46  | 41 | 50 | 45 | 40  | 38 |    |    |    |    |    |   |
| 6               | 66                                 | 53  | 44  | 38  | 64  | 52  | 43  | 37  | 49  | 42  | 37  | 47 | 41  | 36 | 45 | 40 | 35  | 33 |    |    |    |    |    |   |
| 7               | 61                                 | 48  | 39  | 33  | 59  | 47  | 39  | 33  | 45  | 38  | 33  | 43 | 37  | 32 | 42 | 36 | 31  | 29 |    |    |    |    |    |   |
| 8               | 57                                 | 44  | 35  | 30  | 55  | 43  | 35  | 30  | 41  | 34  | 29  | 40 | 33  | 29 | 38 | 33 | 28  | 26 |    |    |    |    |    |   |
| 9               | 53                                 | 40  | 32  | 27  | 51  | 39  | 32  | 27  | 38  | 31  | 26  | 37 | 30  | 26 | 35 | 30 | 26  | 24 |    |    |    |    |    |   |
| 10              | 50                                 | 37  | 29  | 24  | 48  | 36  | 29  | 24  | 35  | 28  | 24  | 34 | 28  | 24 | 33 | 27 | 23  | 22 |    |    |    |    |    |   |

## Zonal Lumen Summary

| Zone  | Lumens | %Lamp | %Fixture |
|-------|--------|-------|----------|
| 0-30  | 4562   | 24.5  | 25.6     |
| 0-40  | 7330   | 39.4  | 41.1     |
| 0-60  | 12827  | 69.0  | 71.9     |
| 0-90  | 17094  | 91.9  | 95.8     |
| 0-180 | 17837  | 95.9  | 100.0    |

## Luminance Data

| Angle in Deg | Average 0-Deg cd/sm | Average 45-Deg cd/sm | Average 90-Deg cd/sm |
|--------------|---------------------|----------------------|----------------------|
| 45           | 10283               | 8782                 | 8691                 |
| 55           | 9860                | 8372                 | 8802                 |
| 65           | 9142                | 8470                 | 10454                |
| 75           | 7699                | 10076                | 10592                |
| 85           | 3898                | 10123                | 11480                |

## Coefficients of Utilization

| rc<br>rw<br>RCR | Effective floor cavity reflectance |     |     |     |     |     |     |     |     |    |    |    | 20% |    |    |    |     |    |    |    |    |    |    |   |
|-----------------|------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|-----|----|----|----|-----|----|----|----|----|----|----|---|
|                 | 80%                                |     |     |     | 70% |     |     |     | 50% |    |    |    | 30% |    |    |    | 10% |    |    |    | 0% |    |    |   |
|                 | 70                                 | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30 | 10 | 50 | 30  | 10 | 50 | 30 | 10  | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| 0               | 106                                | 106 | 106 | 106 | 103 | 103 | 103 | 103 | 97  | 97 | 97 | 91 | 91  | 91 | 86 | 86 | 86  | 83 |    |    |    |    |    |   |
| 1               | 96                                 | 91  | 87  | 83  | 93  | 88  | 84  | 81  | 83  | 80 | 77 | 78 | 76  | 73 | 74 | 72 | 70  | 68 |    |    |    |    |    |   |
| 2               | 86                                 | 78  | 72  | 66  | 83  | 76  | 70  | 65  | 72  | 67 | 62 | 68 | 63  | 60 | 64 | 60 | 57  | 55 |    |    |    |    |    |   |
| 3               | 78                                 | 68  | 60  | 54  | 75  | 66  | 59  | 53  | 62  | 56 | 51 | 59 | 54  | 50 | 56 | 52 | 48  | 46 |    |    |    |    |    |   |
| 4               | 71                                 | 60  | 52  | 45  | 69  | 58  | 51  | 45  | 55  | 49 | 43 | 52 | 47  | 42 | 49 | 45 | 41  | 38 |    |    |    |    |    |   |
| 5               | 65                                 | 53  | 45  | 39  | 63  | 52  | 44  | 38  | 49  | 42 | 37 | 47 | 41  | 36 | 44 | 39 | 35  | 33 |    |    |    |    |    |   |
| 6               | 60                                 | 48  | 40  | 34  | 58  | 47  | 39  | 33  | 44  | 37 | 32 | 42 | 36  | 31 | 40 | 35 | 31  | 28 |    |    |    |    |    |   |
| 7               | 56                                 | 43  | 35  | 29  | 54  | 42  | 34  | 29  | 40  | 33 | 28 | 38 | 32  | 28 | 36 | 31 | 27  | 25 |    |    |    |    |    |   |
| 8               | 52                                 | 39  | 31  | 26  | 50  | 38  | 31  | 26  | 37  | 30 | 25 | 35 | 29  | 25 | 33 | 28 | 24  | 22 |    |    |    |    |    |   |
| 9               | 48                                 | 36  | 28  | 23  | 47  | 35  | 28  | 23  | 34  | 27 | 23 | 32 | 26  | 22 | 31 | 25 | 22  | 20 |    |    |    |    |    |   |
| 10              | 45                                 | 33  | 26  | 21  | 44  | 32  | 26  | 21  | 31  | 25 | 20 | 30 | 24  | 20 | 28 | 23 | 20  | 18 |    |    |    |    |    |   |

## Zonal Lumen Summary

| Zone  | Lumens | %Lamp | %Fixture |
|-------|--------|-------|----------|
| 0-30  | 3714   | 20.0  | 22.1     |
| 0-40  | 6154   | 33.1  | 36.6     |
| 0-60  | 11290  | 60.7  | 67.1     |
| 0-90  | 15508  | 83.4  | 92.1     |
| 0-180 | 16834  | 90.5  | 100.0    |

## Luminance Data

| Angle in Deg | Average 0-Deg cd/sm | Average 45-Deg cd/sm | Average 90-Deg cd/sm |
|--------------|---------------------|----------------------|----------------------|
| 45           | 7432                | 7855                 | 8286                 |
| 55           | 7247                | 7987                 | 9033                 |
| 65           | 6932                | 8679                 | 10536                |
| 75           | 6196                | 9971                 | 10708                |
| 85           | 3774                | 9436                 | 10682                |

## 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

## ORDERING INFORMATION

SAMPLE NUMBER: HBL-632-N-UNV-EB82-UPL-U

Includes V Hangers for rapid installation<sup>(6)</sup>

|                                                                                                                                           |                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| <b>Domestic Preferences<sup>(9)</sup></b><br><b>[Blank]</b> =Standard<br><b>BAA</b> =Buy American Act<br><b>TAA</b> =Trade Agreements Act | <b>Voltage<sup>(1)</sup></b><br><b>UNV</b> =Universal 120/277 Voltage<br><b>UNC</b> =Universal 347/480 Voltage <sup>(7)</sup><br><b>120V</b> =120 Volt<br><b>277V</b> =277 Volt<br><b>347V</b> =347 Volt | <b>Options</b><br><b>Lamps Installed</b><br><b>L8935</b> =T8 Lamp, 90CRI 3500K<br><b>L8941</b> =T8 Lamp, 90CRI 4100K<br><b>L8950</b> =T8 Lamp, 90CRI 5000K<br><b>HL</b> =Add HL at end of lamp for high lumen lamps, T8 only<br><b>GL</b> =Single Element Fuse<br><b>GM</b> =Double Element Fuse<br><b>EL</b> =Emergency Installed | <b>Ballast Type<sup>(4)</sup></b><br><b>T8 Systems</b><br><b>EB8</b> =T8 Electronic Instant Start.<br>Total Harmonic Distortion < 10%<br>No. of Ballast<br>1, 2 or 3<br><b>EB8 /PLUS</b> =T8 Electronic Instant Start. <sup>(7)</sup><br>High Ballast Factor >1.15.<br>Total Harmonic Distortion < 10%<br>No. of Ballast<br>1, 2 or 3<br><b>ER8</b> =T8 Electronic Program Rapid Start. <sup>(5)</sup><br>Total Harmonic Distortion < 10%<br>No. of Ballast<br>1, 2 or 3<br><b>ER8 /PLUS</b> =T8 Electronic Program Start. <sup>(5)</sup><br>High Ballast Factor >1.15.<br>Total Harmonic Distortion < 10%<br>No. of Ballast<br>1, 2 or 3 | <b>Options</b><br><b>UPL</b> =Uplight Apertures on Reflector<br><b>MP</b> =Modular Power Receptacle (Used for all Cord or Cord and Plug options) <sup>(2), (8)</sup><br><b>MWS</b> =Modular Wiring System <sup>(3)</sup><br><b>MS</b> =360° or 180° Motion Sensor installed (120V through 347V, or 480V) <sup>(11)</sup><br><b>Accessories</b> (order separately) <sup>(10)</sup><br><b>HBL-SPM</b> =Single Monopoint Hanger w/Hub<br><b>FH-1</b> =Fixture Hook<br><b>FL-1</b> =Fixture Loop<br><b>Y-TOGGLE-...2PK</b> =(2) Y-Toggle Cable Kits (Specify 10 or 30 for length in feet)<br><b>HBAYC-CHAIN/SET/U</b> =(2) V-Hook Hanger, 36" Chain Sets w/S-Hooks<br><b>MC3</b> =3' Modular Power Cord<br><b>MPC3</b> =3' Modular Power Cord & Plug (Specify Voltage)<br><b>MC6</b> =6' Modular Power Cord<br><b>MPC6</b> =6' Modular Power Cord & Plug (Specify Voltage)<br><b>MMS</b> =360° or 180° Aisle Motion Sensor with Modular Power Receptacle (120-277V) <sup>(2)</sup><br><b>MDS6</b> =6' Modular Power Cord with MWS 27DS18/2G06MP Connector <sup>(8)</sup><br><b>WG/HBL6-4FT-B</b> =4/6 Lamp Wireguard w/Clips | <b>Packaging</b><br><b>U</b> =Unit Pack<br><b>PALC</b> =Palletized In Carton |
| <b>Width</b><br><b>Blank</b> =20" wide<br>4 & 6 Lamp (nominal)                                                                            |                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                              |
| <b>Series</b><br><b>HBL</b> =Linear High Bay                                                                                              |                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                              |
| <b>No. of Lamps</b><br>4=4 Lamps<br>6=6 Lamps                                                                                             |                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                              |
| <b>Lamp Type</b><br><b>32</b> =32W T8 Lamp (48" Long)                                                                                     |                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                              |
| <b>Distribution</b><br><b>N</b> =Narrow Beam (Standard)<br><b>M</b> =Medium Beam<br><b>W</b> =Wide Beam                                   |                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                              |

NOTES: <sup>(1)</sup>Voltage must be specified when ordered with plugs or emergency ballasts. For MS option, indicate UNV (for 120V or 277V), 347V or 480V.<sup>(2)</sup>Requires use of MC\_ or MPC\_ cord accessories, specify voltage for plugs. <sup>(3)</sup>Cannot be combined with Modular Power Receptacle (MP). <sup>(4)</sup>T8 ballast systems suitable for operation in ambient environments up to 131°F (55°C) in upright configuration. <sup>(5)</sup>Recommended when using motion sensor options.<sup>(6)</sup>Can be used in high abuse applications such as gymnasiums. <sup>(7)</sup>2/3 lamp ballast configuration in EB8/PLUS only for UNC version. <sup>(8)</sup>For MWS with MP, choose MP in fixture logic and then choose MWS accessory such as MDS6.<sup>(9)</sup>Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to [DOMESTIC PREFERENCES](#) website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.<sup>(10)</sup>Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.

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

## QUICK SHIP ORDERING INFORMATION



## Quick Ship Ordering Information Sample Number: HBL432-MP-UPL-L5

Includes V Hangers for rapid installation<sup>(6)</sup>

Quick Ship orders ship in 5 days in order quantities not to exceed 200 pieces.

NOTE: Orders received after noon are entered on the following day.

|                                               |                                                                         |                                                                                                                                                                                                                              |                                                                               |                                                                   |                                                                                                                                                                                                        |
|-----------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Family</b><br><b>HBL</b>                   | <b>Lamp Type</b><br><b>32</b> =32W T8 Lamps (48")                       | <b>Ballast Type<sup>(4)</sup></b><br><b>T8 Systems</b><br><b>Blank</b> =(1) or (2) 120/277V T8 Instant Start Electronic, 1.15 BF<br><b>PS</b> =(1) or (2) 120/277V T8 Electronic Program Rapid Start, 1.15 BF <sup>(7)</sup> | <b>Power Receptacle</b><br><b>MP</b> =Modular Power Receptacle <sup>(8)</sup> | <b>Uplight</b><br><b>Blank</b> =No Uplight<br><b>UPL</b> =Uplight | <b>Lamping</b><br><b>Blank</b> =No Lamps<br><b>L4</b> =Lamps Installed 85+CRI 4100K<br><b>L5</b> =Lamps Installed 85+CRI 5000K<br><b>L5HL</b> =Lamps Installed 85+CRI 5000K, High Lumen <sup>(9)</sup> |
| <b>No. of Lamps</b><br>4=4 Lamps<br>6=6 Lamps | <b>Distribution</b><br><b>Blank</b> =Narrow Beam<br><b>W</b> =Wide Beam |                                                                                                                                                                                                                              |                                                                               |                                                                   |                                                                                                                                                                                                        |

NOTES: <sup>(7)</sup>Recommended when using motion sensor options. <sup>(8)</sup>Requires use of Modular cord and plug accessories. <sup>(9)</sup>L5HL (3000 initial) 5000K T8 lamps installed.

## SHIPPING DATA

| Catalog No.     | Wt.       |
|-----------------|-----------|
| HBL-432-UNV-UPL | 13.5 lbs. |
| HBL-632-UNV-UPL | 15 lbs.   |