

Applications Include

Warehouses, gymnasiums, manufacturing facilities, and high end retail.

Specification Features

Construction

High Bay Lambda luminaires feature a die-cast magnesium alloy main housing with an extruded aluminum driver housing. This lightweight yet durable construction separates the driver from the LED array to provide superior thermal management. A removable die-cast aluminum cap provides easy access to wiring. The High Bay Lambda is suitable for -30°C to 45°C ambient conditions.

Mounting

A 3/4" hub on top of the cap allows for pendant mount applications. A mounting hook is available as an accessory for other types of mounting applications. The cap is easily removed by loosening three Phillips head screws and is hinged to allow easy access to the terminal block.

Optics

A combination of an aluminum reflector and acrylic lens produces a smooth and even distribution in a wide beam pattern from the eight LED COB packages. A glow ring accessory is available to provide 5.5% uplight to eliminate the cave effect.

Electrical

A constant current driver accepts 90 to 305V input at 50/60hz. The driver operates at greater than 0.9 Power Factor and lower than 20% Total Harmonic Distortion and has 0-10VDC dimming capability. Dimming resistor accessories are available to reduce light output. Remote mounted step down transformers are available for 347V and 480V applications.

Finish

EYE Lighting utilizes a multi-stage cleaning, pretreatment and chemical conversion coating process. A durable polyester powdercoat is then electrostatically applied. This process ensures protection from impact, UV and salt spray damage.

Warranty

5 Year Limited LED Luminaire Warranty to the original purchaser that the luminaire shall be free from defects in material and workmanship for up to five (5) years from date of shipment. This limited warranty covers the fixture, LED driver and LEDs when installed and operated according to manufacturer's instructions. See EYE Lighting's full Warranty and Terms & Conditions of Sale at www.eyelighting.com.

Listings and Ratings

ETL Listed in the U.S.A. and Canada to U.L. 1598 dry location standards. Tested to IESNA LM-79-08 test standards at 25°C ambient. IES files are available at www.eyelighting.com.



* Consult factory for recognized products
** Check the latest update at www.DesignLights.org for listed product catalog numbers. Not all versions are listed.

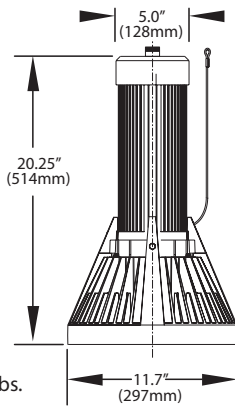
Order Guide

SAMPLE NUMBER : HBL-20L-408-W-UNV-WH

| FAMILY | WATTAGE / SOURCE | CCT | CRI | DISTRIBUTION | VOLTAGE | FINISH | CORD OPTION ¹ | PLUG OPTION ² |
|--------|-------------------|------------|---------------|--------------|-------------------|---------------|---|---|
| HBL | 20L | 40 | 8 | W | UNV | WH | | |
| HBL | 20L = 215W LED | 40 = 4000K | 8 = 80 CRI | W = Wide | UNV = 120-277V | WH = White | 03 = 3' Cord 06 = 6' Cord 10 = 10' Cord | L515 = NEMA L5-15P 125V Plug L615 = NEMA L6-15P 250V Plug L715 = NEMA L7-15P 277V Plug CP = Custom Plug ³ |

¹ Custom cord lengths available in 1" increments. Please consult factory for details.
² Other plug types available, please consult factory for details.
³ Non-NEMA plug type. Please consult factory for details.

Dimensions

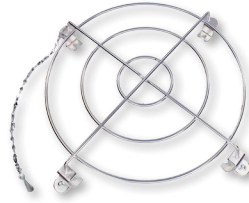


Weight 15.65 lbs.

Accessories (Ordered Separately, field installed)

HBL-WG

Heavy duty 8 gauge plated steel wire guard. Mounting hardware included.



HBL-GLOWRING

Decorative acrylic ring to produce uplight. Mounting hardware included.



PWRHK-34

3/4" hook with power cord pass-through. Mounting hardware included.



Performance Data

Wattage Summary

| LED Model | Qty. | Drive Current | Luminaire Wattage | Average Lumens | CCT | CRI | Lumen Maintenance (L70 At 25°C) | Lumen Maintenance (L70 At 45°C) |
|-----------|------|---------------|-------------------|----------------|-------|-----|---------------------------------|---------------------------------|
| 20L | 8 | 750 mA | 215 | 24,000 | 4000K | 80 | 101,000 hrs. | 90,000 hrs. |

STEP DOWN TRANSFORMERS

Remote mounted step down transformers in a NEMA 3R enclosure

XFR-NEMA3R-480277-375-1

480V - 277V @ 375W or 347V - 200V @ 270W in 12x8x4 Enclosure

XFR-NEMA3R-480277-250-1

480V - 277V @ 250W or 347V - 200V @ 180W in 12x4x4 Enclosure

Ambient Data

| Ambient Temperature | Lumen Multiplier |
|---------------------|------------------|
| 15°C | 1.02 |
| 25°C | 1.00 |
| 40°C | 0.98 |

Photometric Data

HBL-20L-408-W-UNV-WH

System Wattage = 215.9W Lumens = 23,561
Color Temperature = 4000K Distribution = Wide

Maximum Candela = 12078.6 Located at Angle = 0 (v), 0 (h)
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

SPACING CRITERION

0-180 = 1.18 90-270 = 1.18 Diagonal = 1.24

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

| RC | 80 | | | | 70 | | | | 50 | | | 30 | | | 10 | | | 0 |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| 0 | 119 | 119 | 119 | 119 | 117 | 117 | 117 | 117 | 111 | 111 | 111 | 107 | 107 | 107 | 102 | 102 | 102 | 100 |
| 1 | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 99 | 101 | 99 | 96 | 97 | 95 | 93 | 94 | 92 | 91 | 89 |
| 2 | 103 | 96 | 91 | 86 | 101 | 94 | 89 | 85 | 91 | 87 | 83 | 88 | 84 | 81 | 85 | 82 | 79 | 77 |
| 3 | 95 | 86 | 79 | 74 | 93 | 85 | 78 | 73 | 82 | 77 | 72 | 79 | 75 | 71 | 77 | 73 | 70 | 68 |
| 4 | 88 | 78 | 70 | 65 | 86 | 77 | 70 | 64 | 74 | 68 | 63 | 72 | 67 | 62 | 70 | 65 | 62 | 60 |
| 5 | 82 | 71 | 63 | 57 | 80 | 70 | 62 | 57 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 59 | 55 | 53 |
| 6 | 76 | 64 | 56 | 51 | 74 | 63 | 56 | 50 | 62 | 55 | 50 | 60 | 54 | 50 | 59 | 53 | 49 | 47 |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 51 | 45 | 57 | 50 | 45 | 55 | 49 | 45 | 54 | 49 | 44 | 43 |
| 8 | 67 | 54 | 46 | 41 | 65 | 54 | 46 | 41 | 52 | 46 | 41 | 51 | 45 | 41 | 50 | 44 | 40 | 39 |
| 9 | 62 | 50 | 43 | 37 | 61 | 49 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 35 |
| 10 | 59 | 46 | 39 | 34 | 57 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 34 | 43 | 38 | 34 | 32 |

HBL-20L-408-W-UNV-WH with Glow Ring

System Wattage = 215.6W Lumens = 22,833
Color Temperature = 4000K Distribution = Wide

Maximum Candela = 13520 Located at Angle = 0 (v), 0 (h)
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

SPACING CRITERION

0-180 = 1.00 90-270 = 1.00 Diagonal = 1.04

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

| RC | 80 | | | | 70 | | | | 50 | | | 30 | | | 10 | | | 0 |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|
| | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| 0 | 118 | 118 | 118 | 118 | 114 | 114 | 114 | 114 | 108 | 108 | 108 | 102 | 102 | 102 | 97 | 97 | 97 | 95 |
| 1 | 110 | 106 | 102 | 99 | 106 | 103 | 100 | 97 | 98 | 95 | 93 | 93 | 91 | 89 | 89 | 87 | 86 | 83 |
| 2 | 102 | 95 | 89 | 84 | 99 | 93 | 87 | 83 | 88 | 84 | 80 | 84 | 81 | 78 | 81 | 78 | 75 | 73 |
| 3 | 94 | 85 | 79 | 73 | 91 | 83 | 77 | 72 | 80 | 75 | 70 | 76 | 72 | 68 | 73 | 70 | 67 | 64 |
| 4 | 87 | 77 | 70 | 64 | 85 | 76 | 69 | 63 | 73 | 67 | 62 | 70 | 65 | 61 | 67 | 63 | 59 | 57 |
| 5 | 81 | 70 | 63 | 57 | 79 | 69 | 62 | 56 | 66 | 60 | 55 | 64 | 58 | 54 | 62 | 57 | 53 | 51 |
| 6 | 76 | 64 | 57 | 51 | 74 | 63 | 56 | 51 | 61 | 54 | 50 | 59 | 53 | 49 | 57 | 52 | 48 | 46 |
| 7 | 71 | 59 | 51 | 46 | 69 | 58 | 51 | 46 | 56 | 50 | 45 | 54 | 49 | 44 | 53 | 48 | 44 | 42 |
| 8 | 67 | 55 | 47 | 42 | 65 | 54 | 47 | 42 | 52 | 46 | 41 | 50 | 45 | 41 | 49 | 44 | 40 | 38 |
| 9 | 63 | 51 | 43 | 38 | 61 | 50 | 43 | 38 | 48 | 42 | 38 | 47 | 41 | 37 | 46 | 41 | 37 | 35 |
| 10 | 59 | 47 | 40 | 35 | 58 | 47 | 40 | 35 | 45 | 39 | 35 | 44 | 38 | 35 | 43 | 38 | 34 | 33 |

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