

HB31C3 Astra Low Profile 16" COB LED Highbay with Uplight



| | |
|----------------------------|---------------|
| Project Information | |
| Project Name: | Fixture Type: |
| Complete Catalog #: | Date: |
| Comments: | |

The DuraGuard HB31 Astra Low Profile 16" Highbay is available with a choice of LumaLens and clear UV-stabilized polycarbonate upper reflector and lower lens combinations to provide up to 30% uplight component and reduce direct glare. The fixture is designed to replace HID lighting systems up to 400w MH. Typical high bay lighting applications include convention centers, gymnasiums, natatoriums indoor sports facilities, retail stores and manufacturing facility lighting. Suitable for 14 to 40 foot mounting heights based on light level and uniformity requirements.

SPECIFICATIONS AND FEATURES:

HOUSING:

Die Cast Aluminum Housing with External Heat Sinks for Cooler Operating Temperatures. Externally Mounted Driver.

LISTING & RATINGS:

CSA: Listed for Dry Locations, ANSI/UL 1598, 8750 IP65 (with Lenses); IP44 (Open)

FINISH:

White Powdercoat Finish Over a Chromate Conversion Coating. Custom Colors Available Upon Request.

LENS:

Clear UV-Stabilized Polycarbonate or SoftLED LumaLens UV-Stabilized Polycarbonate Vandal-Resistant Refractors. Can be Used Open or with Clear Prismatic UV-Stabilized Polycarbonate or SoftLED LumaLens Prismatic UV-Stabilized Polycarbonate Bottom Lenses.

MOUNTING OPTIONS:

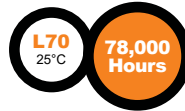
Mount with Included 3/4" Die Cast Hook. Adjustable Junction Box Also Accepts 3/4" Conduit.

COB LED:

DuraGuard COB

WATTAGE:

120w: COB: 120w; System: 123w (250w HID Equivalent)
200w: COB: 200w; System: 197w (400w HID Equivalent)



DRIVER:

Electronic Driver, 120-277V, 50/60Hz or 347-480V, 50/60Hz (200w Model Only); Less Than 20% THD and PF>0.90. Standard Internal Surge Protection 6kV. 0-10V Dimming Standard for a Dimming Range of 100% to 10%; Dimming Source Current is 150 Microamps.

CONTROLS:

Fixtures Ordered with Factory-Installed Photocell or Motion Sensor Controls are Internally Wired for Switching and/or 1-10V Dimming Within the Housing. Remote Direct Wired Interface of 1-10V Dimming is Not Implied and May Not Be Available, Please Consult Factory. Fixtures are Tested with DuraGuard Controls and May Not Function Properly With Controls Supplied By Others. Fixtures are NOT Designed for Use with Line Voltage Dimmers.

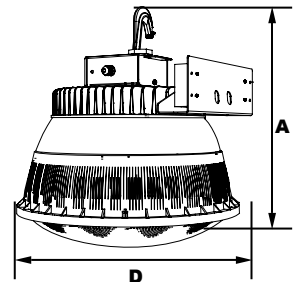
WARRANTY:

5-Year Warranty for -40°C to +50°C Environment.

See Page 4 for Projected Lumen Maintenance Table



Microwave Sensor Factory Installed "M3" Option (120-277V Only)



Dimensions

Diameter (D) | 16" (405mm)
Height (A) | 17 1/8" (448mm)

DuraLED TECHNOLOGY

Complete Units
Ordering Information
Example: HB31C310X20U5KLLWSP

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| HB31C3 | | 5K | | | | |
|--|-------------------------|---|----------|------|--|---------|
| Model | Wattage | Driver | CCT | Lens | Color | Options |
| HB31C3 = Astra Low Profile 16" COB LED Highbay with Uplight | 6X20=120w 10X20=200w | U=120-277V H=347-480V* *200w Model Only | 5K=5000K | | W=White C=Custom (Consult Factory) | |
| <p>CO=Clear Upper, No Bottom Lens CP=Clear Upper, Clear Prismatic Lower CL=Clear Upper, SoftLED LumaLens Lower LO=SoftLED LumaLens Upper, No Bottom Lens LP=SoftLED LumaLens Upper, Clear Prismatic Lower LL=SoftLED LumaLens Upper, SoftLED LumaLens Lower</p> | | | | | | |
| <p>SF=Single Fuse* DF=Double Fuse* SP=Surge Protection M3= Microwave Sensor for Mounting Heights of 20 Feet or Above.* CP6120W=6' White Cord, 3 Wire, L5-15P Twist-Lock Plug CP6277W=6' White Cord, 3 Wire, L7-15P Twist-Lock Plug C6600B=6' Black Cord, STW, 600VAC, 3 Wire, Leads C6600W=6' White Cord, STW, 600VAC, 3 Wire, Leads C4600B=4' Black Cord, SEOW, 600VAC, 3 Wire, Leads</p> | | | | | | |

*120-277V Models Only.



Specifications subject to change without notice.

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Lens Options



HB31C3 Shown with Clear Lens



HB31C3 Shown with LumaLens

ACCESSORIES & REPLACEMENT PARTS:



P17116

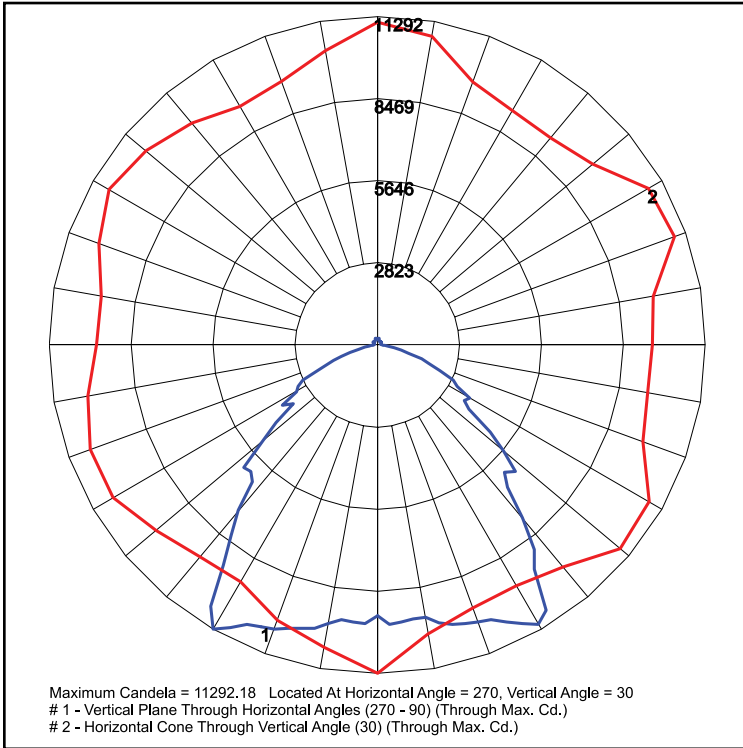
Replacement Parts (Order Separately, Field Installed)

| | |
|--------|--|
| PC16UC | Clear UV-Stabilized Polycarbonate Upper Refractor |
| PC16UL | SoftLED LumaLens UV-Stabilized Polycarbonate Upper Refractor |
| PC16LC | Clear UV-Stabilized Polycarbonate Lower Lens |
| PC16LP | Prismatic UV-Stabilized Polycarbonate Lower Lens |
| PC16LL | SoftLED LumaLens Prismatic UV-Stabilized Polycarbonate Lower Lens |
| CPMH1 | Die Cast Hook with 3/4" NPS Threads |
| P17116 | Microwave Sensor for Mounting Heights of 20 Feet or Above (120-277V Only). |

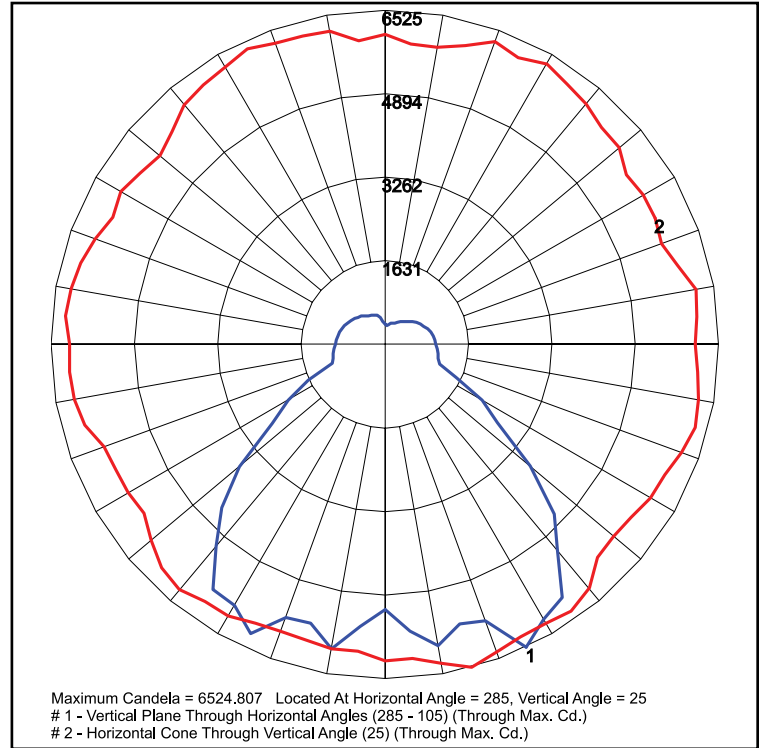
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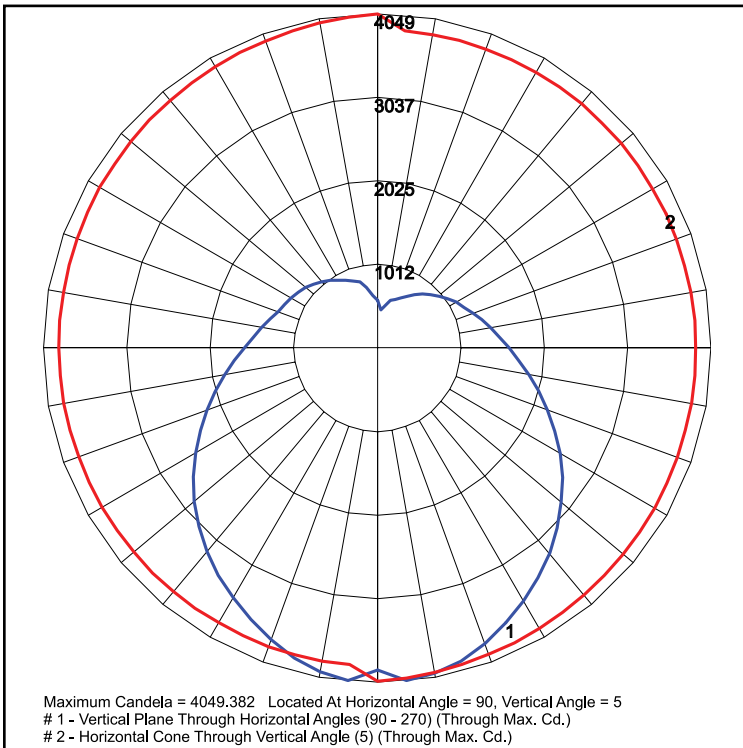
PHOTOMETRIC DATA



HB31C310X20U5KCC - Clear Upper, Standard Clear Lower



HB31C310X20U5KLC - LumaLens Upper, Standard Clear Lower



HB31C310X20U5KLL - LumaLens Upper, LumaLens Lower

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PHOTOMETRIC PERFORMANCE

| LED Board Watts | Drive Current (mA) | Input Watts | Optics | Spacing Criteria | 5000 CCT 80 CRI | |
|---------------------------------------|--------------------|-------------|---------|------------------|-----------------|-----|
| | | | | | Lumens | LPW |
| COB LED 10X20W (LumaLens/LumaLens-LL) | 525 | 197 | LL 145° | 1.32 | 22,873 | 116 |
| COB LED 10X20W (LumaLens/Clear-LC) | | | LC 96° | 1.34 | 23,016 | 117 |
| COB LED 10X20W (Clear/Clear-CC) | | | CC 147° | 1.58 | 26,997 | 137 |

PROJECTED LUMEN MAINTENANCE

| Data shown for 5000 CCT TM-21-11 | Input Watts | Compare to MH | | | | Calculated LED Life |
|--------------------------------------|---------------------------------------|---------------|------------|------------|-------------|---------------------|
| | | Initial | 25,000 Hrs | 50,000 Hrs | 100,000 Hrs | |
| L70 Lumen Maintenance @ 25°C / 77°F | All wattages up to and including 197w | 1.00 | 0.90 | 0.81 | 0.62 | 78,000 |
| L70 Lumen Maintenance @ 50°C / 122°F | | 1.00 | 0.87 | 0.73 | 0.46 | 56,000 |
| L80 Lumen Maintenance @ 40°C / 104°F | | 1.00 | 0.88 | 0.77 | 0.53 | 43,000 |

NOTES:

1. Projected per IESNA TM-21-11. Data references the extrapolated performance projections for the 525mA base model in a 25°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08.
2. Compare to MH box indicates suggested Light Loss Factor (LLF) to be used when comparing to Metal Halide (MH) systems.