

HB02 Induction Highbay Series



DISC INDUCTION GENERATOR

CIRCULAR INDUCTION
250W – 500W

MOUNTING HEIGHT
15' TO 40'

DIMMING WATTAGES
CIRCULAR 250W-400W

The **HB02 Induction Highbay Series** can be used in a variety of applications including manufacturing, gymnasiums, warehouse facilities, exhibition halls, industrial, and commercial environments. Optimized for heights of 15ft to 40ft. Clear prismatic acrylic lens with aluminum housing. Providing a soft light, no glare or flickering. The Induction system operates well in cold temperatures with an instant ON/re-strike capability. The long life and superior lumen maintenance of Induction significantly reduces maintenance costs and provides a significant reduction in the total cost of ownership.

APPLICATION -

- Manufacturing
- Gymnasiums
- Warehouse
- Intended use for Replacements of HID Luminaire

CONSTRUCTION -

- Aluminum Housing
- Disc Generator – Externally Mounted (IP43), Powder Coated White (Standard)
- Aluminum Finish

ELECTRICAL -

- Universal Voltage (120V – 277V)
- High Power Factor (>.95)
- Ambient Temperature Rating: -20°C to 40°C
- Input Frequency: 50/60 Hz
- Operating Frequency: 250 kHz
- Generator Type: Class P Type 1 outdoor, IP43
- Step Down Transformer Voltage: 347V/480V to 277V
- CSA: 208V-347V

LAMP TYPE/WATTAGES -

- Circular Induction Lamps Available: 250W, 300W, 400W, 500W
- Standard Kelvin Temperature is 5000K: Provides a Cooler Color Temperature
- CRI >80
- Wide Range of Color Temperature Options 2700K – 6500K¹ Available

COMPLIANCE -

- UL listed – UL 1598 (E363375)
- cUL listed – UL 1598 (E363375)
- CSA listed¹: 400W

DIMMING INDUCTION GENERATOR SPECIFICATIONS -

- Dimming interface is electrically isolated for safety and reliability
- Dimmable Induction generator can work as a regular generator to drive the lamp at full range when the 0-10V interface is not connected.
- The output wattage is about 50% at 0-3VDC.
- The output wattage is dimmed from 100% to 50% at the 9-3VDC.
- Dimming wires: Violet (+), Gray (-)
- The output wattage is 100% at 9-10VDC.

OPTICS -

- High Reflectance Aluminum Housing
- Acrylic Lens

WARRANTY -

- Five-year Limited Warranty

- Exhibition Hall
- Large Area Retail
- Industrial

- Clear Prismatic Acrylic Lens (Available Without Lens Upon Request)
- Pendant Mount or Hook

- Pre-Wired Output Connector (Plug and Play)
- Constant Wattage Output With Less Than 3% Variance
- No Variation Over a Wide Range of Temperatures and Voltage Fluctuation
- Instant On
- No Noise Compared to HID Systems
- THD %: < 10%

- Pre-Wired Input Connector
- Low Lumen Depreciation, >70% Lumen Maintenance at 60,000 Hours
- Vibration and Shock Resistant: No Filament

- IP43: Suitable for Damp Location
- Surge Immunity – IEC 61000-4-5: Class 4
- FCC Part 18-A

- The output wattage is at the 100% range when the system is power ON. If the system is set on a dim level then it will dim within 30 seconds.
- Shorting the two dimming wires (Violet and Gray) sets the system to the lowest dim level of 50%, acting as a bi-level dimming system.

- Type V Distribution

Actual performance may differ as a result of end-user environment and application.
Note: Specifications subject to change without notice.

NOTE:
1 Consult with your sales representative for availability.
2 Consult with your sales representative for lead time.
3. Dimming Generator, No Sensor included

ORDERING OPTIONS

Lead times will vary depending on options selected. Consult with your sales representative.

TYPE	SERIES	LAMP	WATTAGE	LENS	REFRACTOR DIA	ORDERING OPTIONS
HB = HIGHBAY	02 = 02 SERIES	C = CIRCULAR	250 = 250W 300 = 300W 400 = 400W 500 = 500W	BLANK = NO LENS A = ACRYLIC	30"	M = 0-10V Dimming ³ BLANK = 5000K 27 = 2700K 30 = 3000K 40 = 4000K 60 = 6000K 65 = 6500K J = CSA ¹

Example: HB-02-C250-A-30 (Highbay 02 series Circular 250W lamp with 30" Acrylic lens)

Discontinued
Contact Fulham for availability. Not for use in new designs.

HB02 Induction Highbay Series

ACCESSORIES

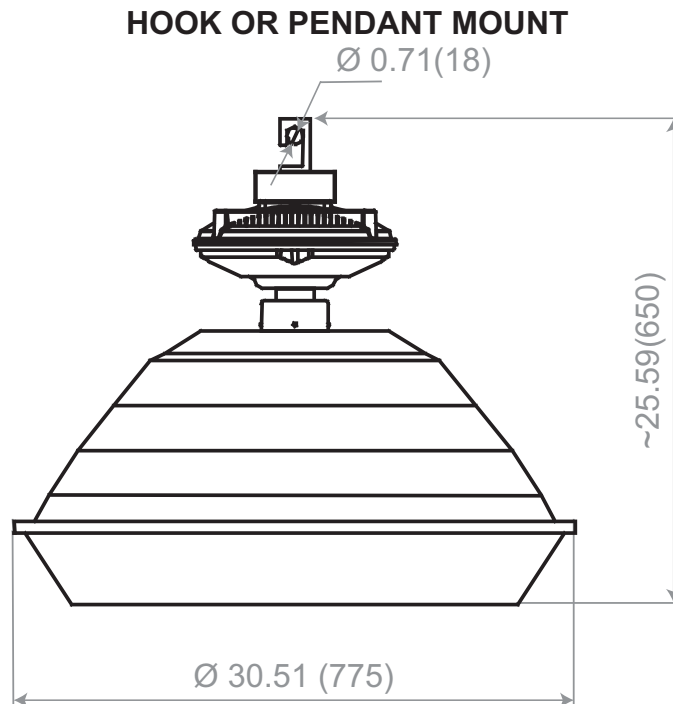
DESCRIPTION:	PART NUMBER:
STEP DOWN TRANSFORMER	
35W - 100W	HH-ILS-SD1-125VA
120W - 200W	HH-ILS-SD2-245VA
250W - 400W	HH-ILS-SD3-460VA
STEP-DOWN TRANSFORMER HOUSING KIT	
Housing for all three transformer options	HHILPQ32840
WIRE GUARD	
200W/250W/300W	ILASGCL
HIGHBAY PERFORMANCE REFLECTOR	
150W/200W/250W	HHILPF00020

ELECTRICAL CHARACTERISTICS

MODEL NO.	RATED WATTAGE (W)	INPUT POWER (W)	INPUT CURRENT 120V - 277V (AMP)	LAMP RATED INITIAL LUMINANCE (LM)	EFFICACY (LM/W)	LUMEN MAINTENANCE	COLOR RENDERING INDEX	CCT (KELVIN)
HB02-C250-A-30/M HB02-C250-30/M	250	263	2.19 - 0.95	22500	85 - 90	70%-75%	> 80	5000
HB02-C300-A-30/M HB02-C300-30/M	300	315	2.63 - 1.14	27000	85 - 90			
HB02-C400-A-30/M HB02-C400-30/M	400	420	3.50 - 1.52	36000	85 - 90			
HB02-C500-A-30 HB02-C500-30	500	525	4.61 - 2.00	45000	85 - 90			

Mechanical Data

NOTE: PENDANT MOUNT IS FOR A 3/4" THREADED PIPE



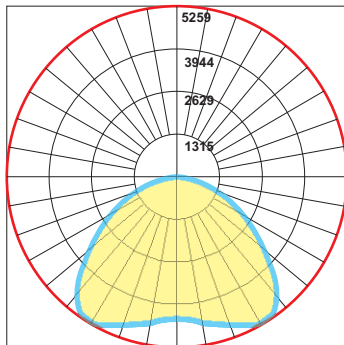
FRONT VIEW

All dimensions are shown in inches (millimeters) unless otherwise noted.

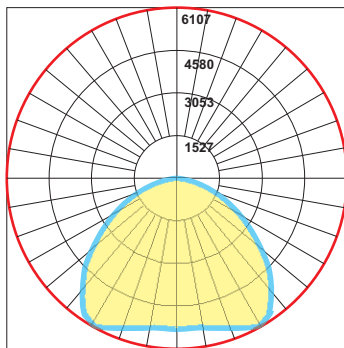
Photometric Data

IES files available upon request.

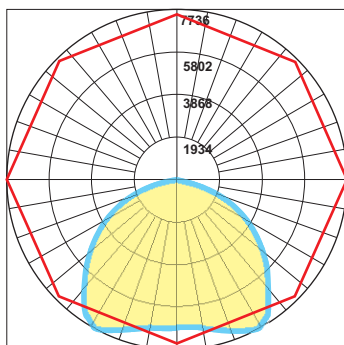
POLAR GRAPH



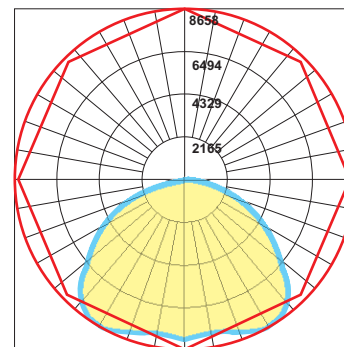
HB02-C250-A-30/M



HB02-C300-A-30/M

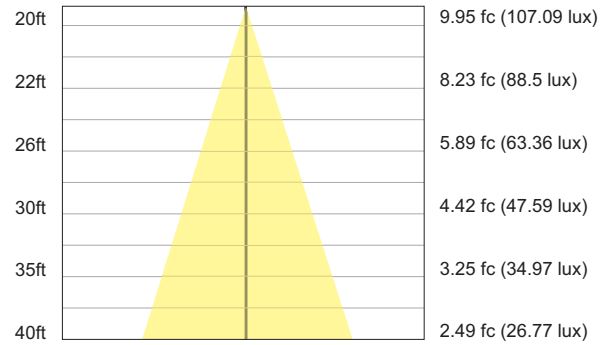


HB02-C400-A-30/M

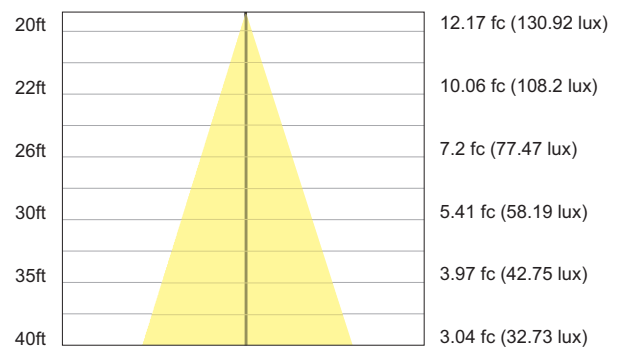


HB02-C500-A-30

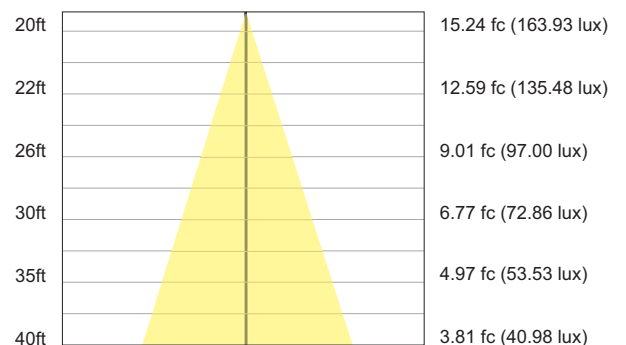
ILLUMINANCE AT DISTANCE



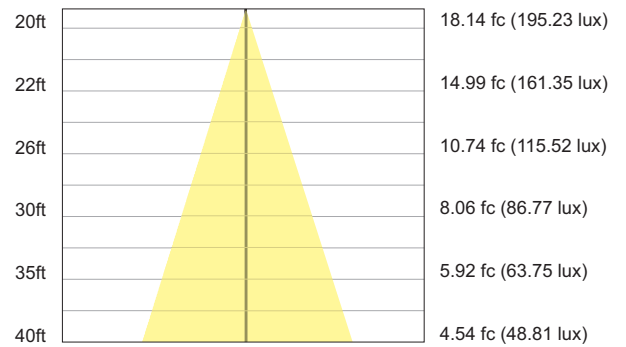
HB02-C250-A-30/M



HB02-C300-A-30/M



HB02-C400-A-30/M



HB02-C500-A-30

Located At Horizontal Angle = 0, Vertical Angle = 30
 # 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
 # 2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)
 Photometric