

# Basic Collection

COBRAHEADS

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



## CH07 Induction Cobrahead Series



SEALED DIE CAST INDUCTION GENERATOR

TUBULAR INDUCTION  
70W – 250W

MOUNTING HEIGHT  
12' TO 40'



The **CH07 Induction Cobrahead Series** can be used in a variety of roadway lighting applications. Optimized for heights of 12ft to 40ft. CH07 has a stylish slim structure uniquely design for high wind resistance and a wide distribution. Generator is efficiently mounted directly to the housing for great reliability and easy maintenance. 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 -**

- Freeways
- Highways
- Parking Lots
- Intended use for Replacements of HID for Roadway Lighting

- Public Entrances
- Off-Street Area
- Roadway Lighting

**CONSTRUCTION -**

- Slim Structure
- Corrosion Resistant
- Standard Powder Coated Finish: Gray
- Die Cast Aluminum Alloy Housing
- Streamline Contour for High Wind Resistance
- Sealed Die Cast Generator
- Hydro-Formed Aluminum Reflector

- Clear Flat Temper Glass Lens
- Gas-tight Silicon Rubber Seal
- Generator Directly Mounted to Housing for Great Reliability and Easy Maintenance
- Pole Mounted: Diameter 1.50" – 2.36"
- Preinstalled Photocell Receptacle

**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
- CSA: 208V-347V
- CE: 208V-240V

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

**LAMP TYPE/WATTAGES -**

- Tubular Induction Lamps Available: 70W, 80W, 100W, 120W, 150W, 200W, 250W
- Standard Kelvin Temperature is 5000K: Provides a Cooler Color Temperature
- CRI>80
- Wide Range of Color Temperature Options 2700K – 6500K Available

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

**COMPLIANCE -**

- UL listed – UL 1598 (E363375)
- cUL listed – UL 1598 (E363375)
- CSA listed: 100W, 150W, 200W, 250W
- CE listed: 200W, 250W

- IP65: Suitable for Wet Location
- Surge Immunity – IEC 61000-4-5: Class 4
- FCC Part 18-A

**OPTICS -**

- Clear Flat Tempered Glass Lens
- High Reflectivity Vacuum Coated Inner Surface Finish

- Symmetric Hydroformed Aluminum Reflector
- Type II Distribution

**WARRANTY -**

- Five-year Limited Warranty

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

### ORDERING OPTIONS

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

TYPE	SERIES	LAMP	WATTAGE	LENS	ORDERING OPTIONS
CH = COBRAHEAD	07 = 07 SERIES	T = TUBULAR	070 = 70W 080 = 80W 100 = 100W 120 = 120W 150 = 150W 200 = 200W 250 = 250W	G = GLASS	BLANK = 5000K 27 = 2700K 30 = 3000K 40 = 4000K 60 = 6000K 65 = 6500K J = CSA <sup>1</sup> Z = CE <sup>1</sup>

Example: CH07-T250-G (Cobrahead 07 Series Tubular 250W Lamp with Glass Lens)

### ACCESSORIES

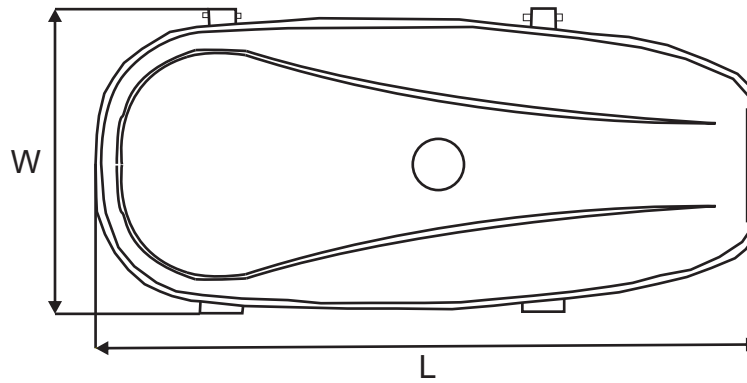
DESCRIPTION:	PART NUMBER:
PHOTOCELL (BLUE)	ILAPHCU
PHOTOCELL-10	ILAPHCU10



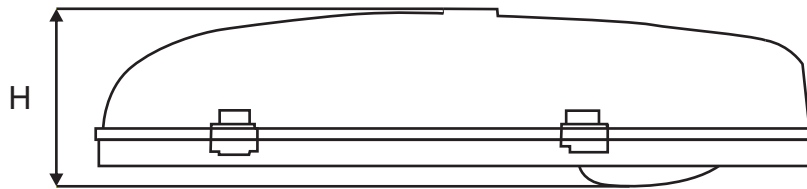
**ELECTRICAL CHARACTERISTICS**

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)
CH07-T070-G	70	74	0.62 - 0.27	5250	70 - 75	70%-75%	> 80	5000
CH07-T080-G	80	84	0.70 - 0.30	6000	70 - 75			
CH07-T100-G	100	105	0.88 - 0.38	8000	75 - 80			
CH07-T120-G	120	126	1.05 - 0.45	9600	75 - 80			
CH07-T150-G	150	158	1.32 - 0.57	12750	80 - 85			
CH07-T200-G	200	210	1.75 - 0.76	17000	80 - 85			
CH0-T250-G	250	263	2.19 - 0.95	22500	85 - 90			

**Mechanical Data**



**TOP VIEW**



**FRONT VIEW**

Model	L	W	H
70W - 150W	31.54 (801)	14.49 (368)	7.68 (195)
200W - 250W	41.50 (1054)	16.50 (419)	8.35 (212)

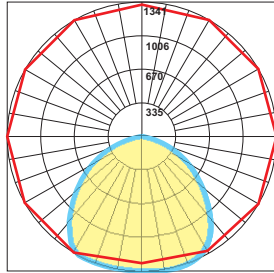
All dimensions are shown in inches (millimeters) unless otherwise noted.

## CH07 Induction Cobrahead Series

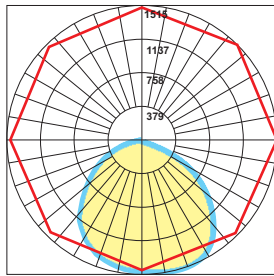
### Photometric Data

IES files available upon request.

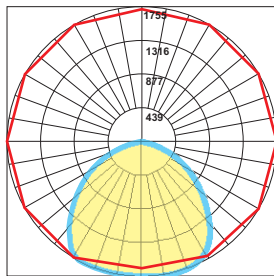
#### POLAR GRAPH



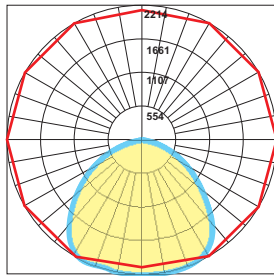
**CH07-T070-G**



**CH07-T080G**

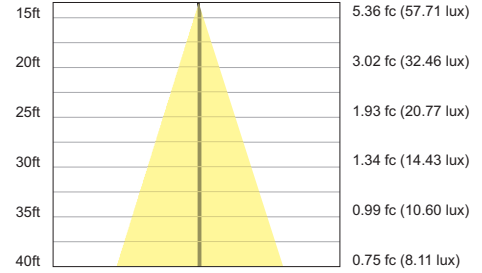


**CH07-T100-G**

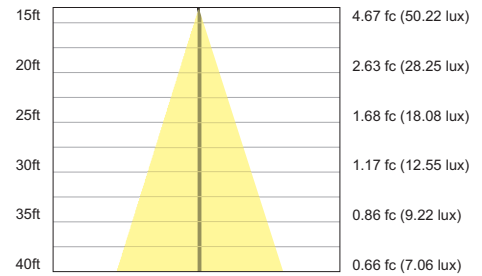


**CH07-T120-G**

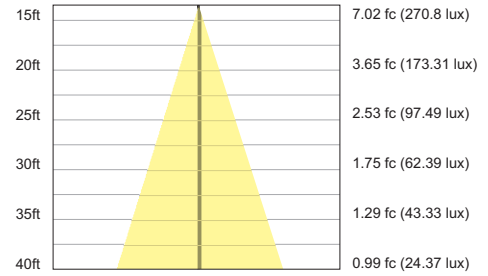
#### ILLUMINANCE AT DISTANCE



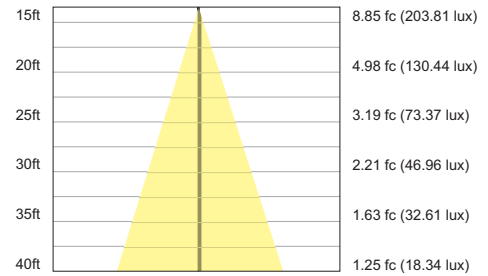
**CH07-T070-G**



**CH07-T080-G**



**CH07-T100-G**



**CH07-T120-G**

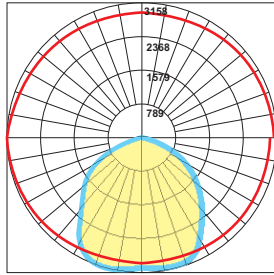
Located At Horizontal Angle = 5, Vertical Angle = 27.5  
 # 1 - Vertical Plane Through Horizontal Angles (5 - 185) (Through Max. Cd.)  
 # 2 - Horizontal Cone Through Vertical Angle (27.5) (Through Max. Cd.)

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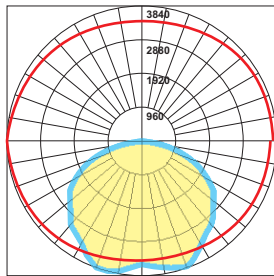
### Photometric Data

IES files available upon request.

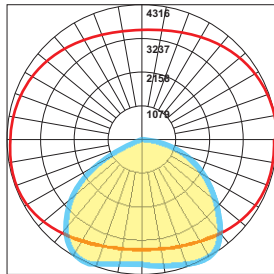
#### POLAR GRAPH



**CH07-T150-G**

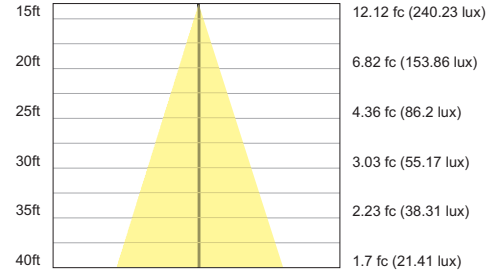


**CH07-T200-G**

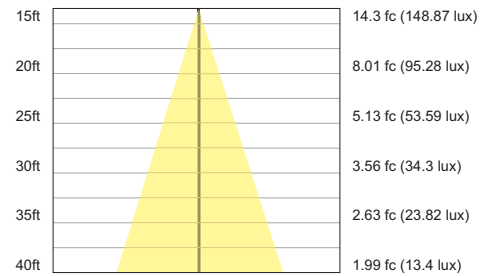


**CH07-T250-G**

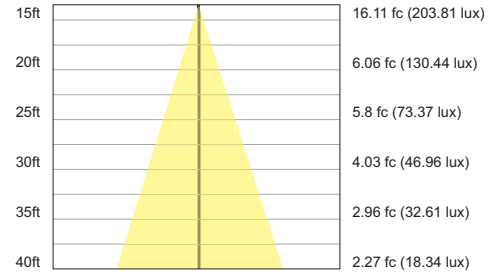
#### ILLUMINANCE AT DISTANCE



**CH07-T150-G**



**CH07-T200-G**



**CH07-T250-G**

Located At Horizontal Angle = 5, Vertical Angle = 27.5  
 # 1 - Vertical Plane Through Horizontal Angles (5 - 185) (Through Max. Cd.)  
 # 2 - Horizontal Cone Through Vertical Angle (27.5) (Through Max. Cd.)