

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



## CH01 Induction Cobrahead Series



The **CH01 Induction Cobrahead Series** can be used in a variety of applications roadway Lighting. Optimized for heights of 12ft to 40ft. CH01 has an exclusive compact structure uniquely design for high wind resistance with an adjustable projective angle. Separate generator and lamp compartment is engineered 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 -**

- Compact Structure
- Corrosion Resistant
- Standard Powder Coated Finish: Gray
- Die Cast Aluminum Alloy Housing
- Streamline Contour for High Wind Resistance
- Adjustable Projecting Angle
- Separate Generator and Lamp Compartment is Engineered for Great Reliability and Easy Maintenance
- Preinstalled Photocell Receptacle

- Pole Mounted: Diameter 1.97" – 2.63"
- Photocell NOT included
- Adjustable Installation Angle: 4-Step
- Tempered Glass Lens
- Gas-tight Silicon Rubber Seal
- Hydro-Formed Aluminum Reflector
- Optional: Curved Polycarbonate Lens
- Sealed Die Cast Generator

**INTEGRATED CAST INDUCTION GENERATOR**



**TUBULAR INDUCTION**  
40W – 250W

**MOUNTING HEIGHT**  
12' TO 40'

**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
- 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: 40W, 55W, 70W, 80W, 100W, 120W, 150W, 200W, 250W
- Standard Kelvin Temperature is 5000K: Provides a Cooler Color Temperature
- CRI >80
- Vibration and Shock Resistant: No Filament

- Pre-Wired Input Connector
- Low Lumen Depreciation, >70% Lumen Maintenance at 60,000 Hours
- Wide Range of Color Temperature Options 2700K – 6500K<sup>1</sup> Available

**COMPLIANCE -**

- UL listed – UL 1598 (E363375)
- cUL listed – UL 1598 (E363375)
- CE listed<sup>2</sup>: 40W, 55W, 70W, 80W, 100W, 120W, 150W, 200W, 250W

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

**OPTICS -**

- Clear 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:*  
<sup>1</sup> Consult with your sales representative for availability.  
<sup>2</sup> 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	01 = 01 SERIES	T = TUBULAR	040 = 40W 055 = 55W 070 = 70W 080 = 80W 100 = 100W 120 = 120W 150 = 150W 200 = 200W 250 = 250W	G = GLASS  P = POLYCARBONATE	BLANK = 5000K 27 = 2700K 30 = 3000K 40 = 4000K 60 = 6000K 65 = 6500K Z = CE <sup>1</sup>

**Example:** CH-01-T250-G (Cobrahead 01 Series Tubular 250W Lamp with Glass Lens 5000K)

### ACCESSORIES

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

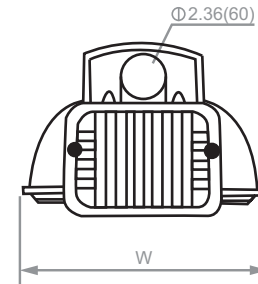
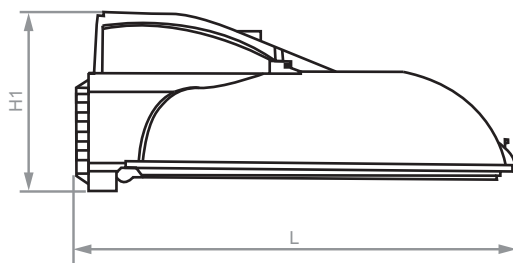
## CH01 Induction Cobrahead Series

### ELECTRICAL CHARACTERISTICS

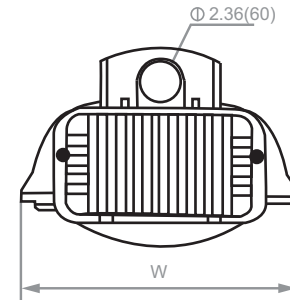
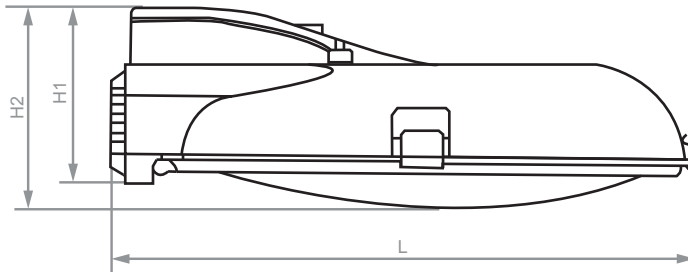
MODEL NO.	RATED WATTAGE (W)	INPUT POWER (W)	INPUT CURRENT 120V - 277V (AMP)	LAMP RATED INITIAL LUMINANCE (LM)	EFFICACY (LM/W)	LUMEN MAINTENANCE	COLOR RENDERING INDEX	CCT (KELVIN)
CH01-T040-G CH01-T040-P	40	42	0.35 - 0.15	3000	70 - 75	70%-75%	> 80	5000
CH01-T055-G CH01-T055-P	55	58	0.48 - 0.21	4380	75 - 80			
CH01-T070-G CH01-T070-P	70	74	0.62 - 0.27	5250	70 - 75			
CH01-T080-G CH01-T080-P	80	84	0.70 - 0.30	6000	70 - 75			
CH01-T100-G CH01-T100-P	100	105	0.88 - 0.38	8000	75 - 80			
CH01-T120-G CH01-T120-P	120	126	1.05 - 0.45	9600	75 - 80			
CH01-T150-G CH01-T150-P	150	158	1.32 - 0.57	12750	80 - 85			
CH01-T200-G CH01-T200-P	200	210	1.75 - 0.76	17000	80 - 85			
CH01-T250-G CH01-T250-P	250	263	2.19 - 0.95	22500	85 - 90			

### Mechanical Data

#### FLAT GLASS LENS



#### CURVED POLYCARBONATE LENS



#### FRONT VIEW

#### BACK VIEW

Model	L	W	H1	H2
40W - 80W	23.18 (588.7)	14.35 (364.6)	9.64 (244.9)	10.44 (265.3)
100W - 150W	27.10 (688.4)	15.18 (385.6)	10.98 (278.9)	12.02 (305.3)
200W - 250W	35.93 (912.6)	17.17 (436)	10.86 (275.9)	12.18 (309.3)

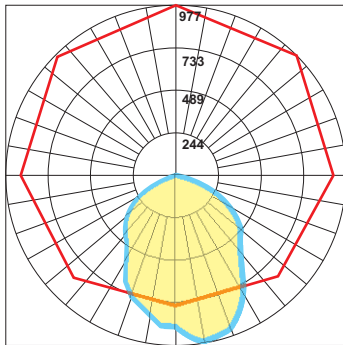
All dimensions are shown in inches (millimeters) unless otherwise noted.

## CH01 Induction Cobrahead Series

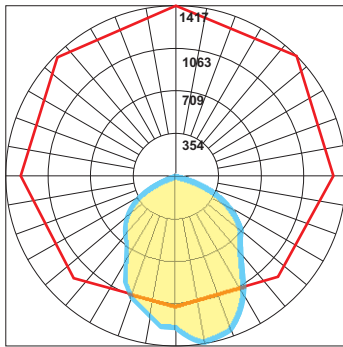
### Photometric Data

IES files available upon request.

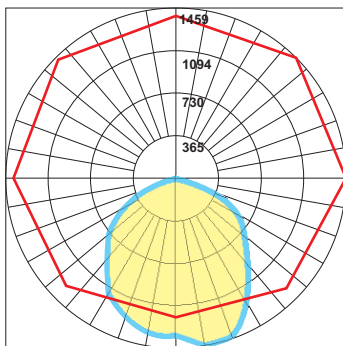
#### POLAR GRAPH



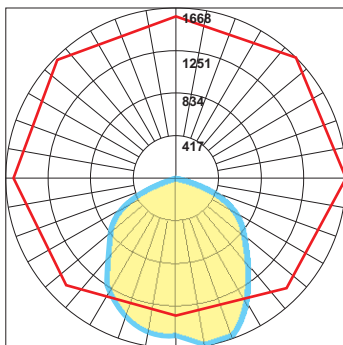
**CH01-T040-G**



**CH01-T055-G**

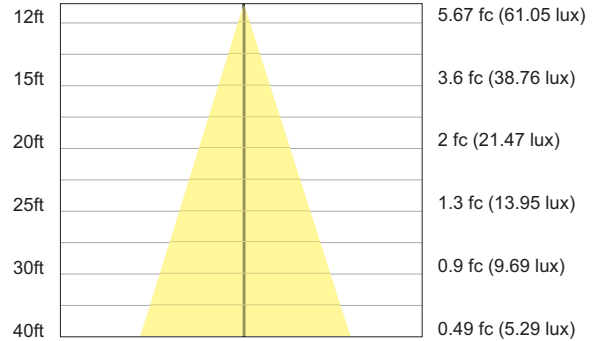


**CH01-T070-G**

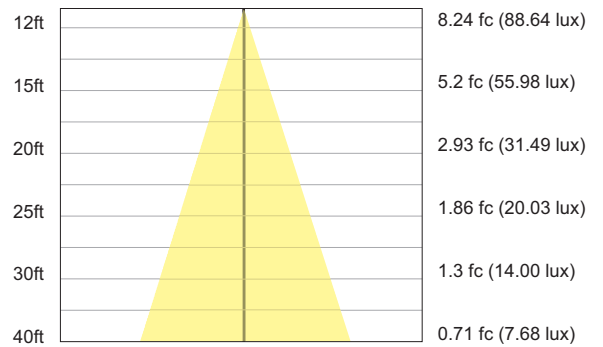


**CH01-T080-G**

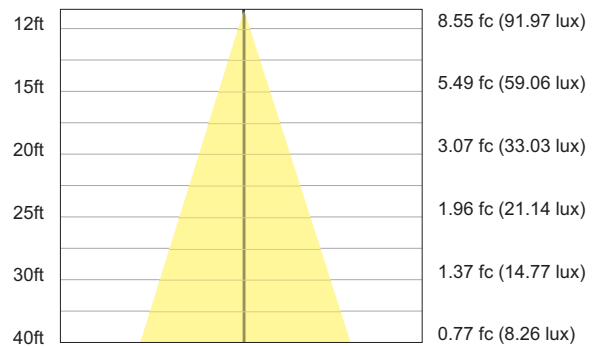
#### ILLUMINANCE AT DISTANCE



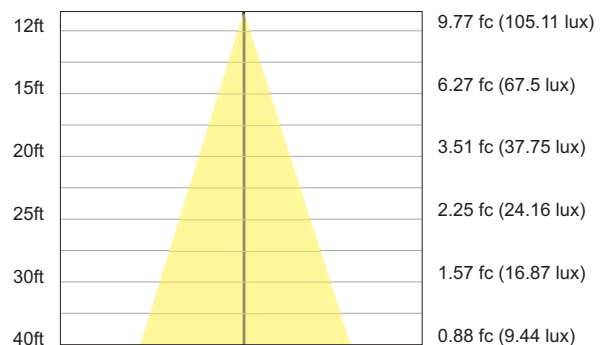
**CH01-T040-G**



**CH01-T055-G**



**CH01-T070-G**



**CH01-T080-G**

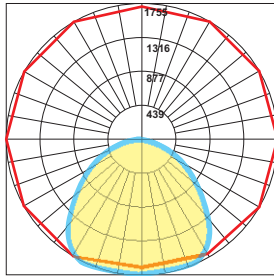
Located At Horizontal Angle = 45, Vertical Angle = 15  
 # 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
 # 2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)

## CH01 Induction Cobrahead Series

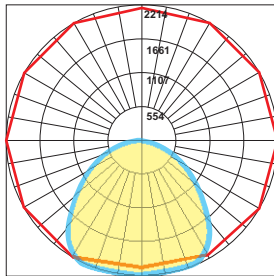
### Photometric Data

IES files available upon request.

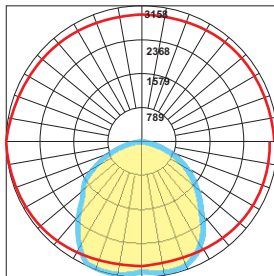
#### POLAR GRAPH



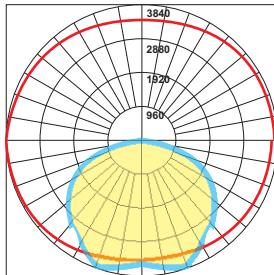
**CH01-T100-G**



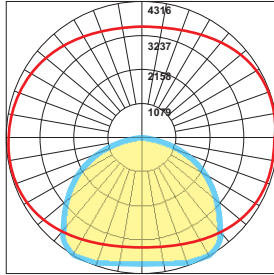
**CH01-T120-G**



**CH01-T150-G**

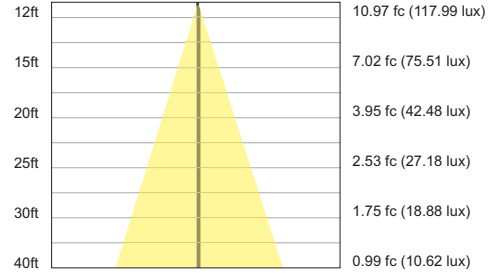


**CH01-T200-G**

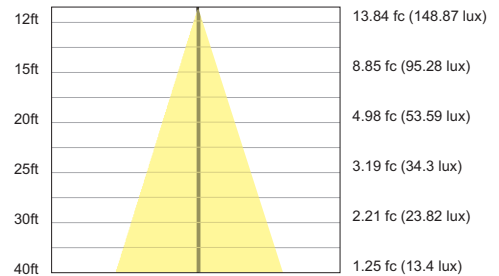


**CH01-T250-G**

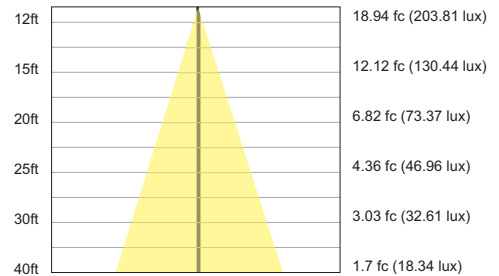
#### ILLUMINANCE AT DISTANCE



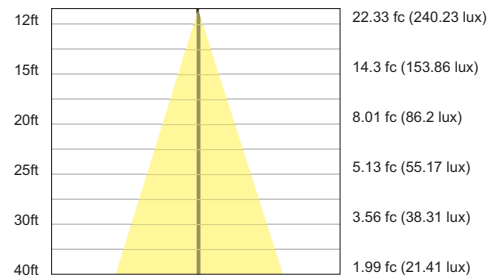
**CH01-T100-G**



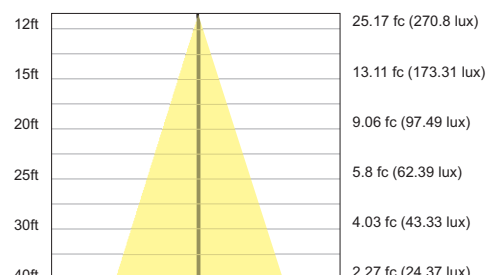
**CH01-T120-G**



**CH01-T150-G**



**CH01-T200-G**



**CH01-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.)