

INDF



INDR



## Construction

- Integral ballast assembly in fixture for easy installation.
- Lightweight aluminum composite upper reflector minimizes pole stress.
- Stainless steel vertical struts.
- Round or square upper reflectors available for both models.
- Reflector tilts and locks at 0, 15 or 30 degrees.
- Both models use the AAL Indirect Reflector System. The optics reduce uplight improving efficiency while complying with dark sky ordinances.

## Reflector Adjustment

The Indirect upper reflector can be tilted 15 or 30 degrees for an asymmetrical light distribution. The locking clamp design insures a consistent tilt angle on all fixtures.

The Indirect model INDA has an adjustable lamp head to focus the light beam onto the center of the shade, when the shade is tilted. This improves efficiency and minimizes any stray light beyond the reflector.



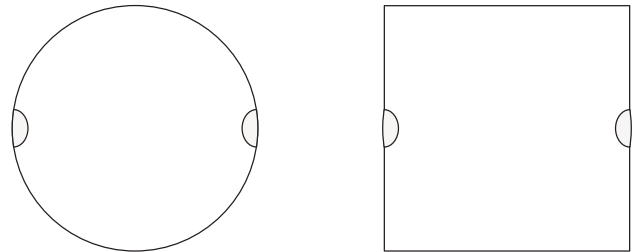
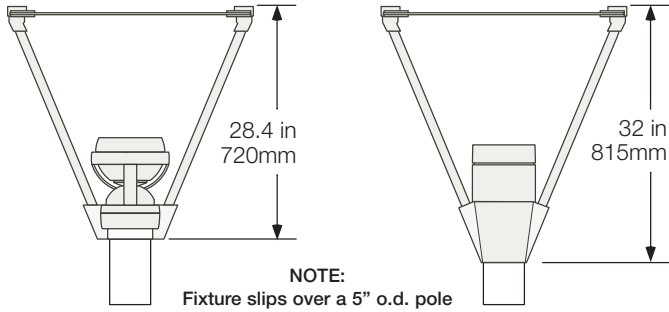
FIXTURE	REFLECTOR	BALLAST	OPTIONS	COLOR	ARM	BASE-POLE
1	2	3	4	5	6	7

**1 FIXTURE**

- INDA** Adjustable head       **INDF** Straight, fixed head

**2 REFLECTOR - UPPER**

- RD** 30" Round       **SQ** 30" Square



**5 BALLAST**

- INC** For use with mini cand base, incandescent lamps up to 250 watts, 120 volts.
- CF** Compact Fluorescent, electronic ballast 120 thru 277 volt. 18° C starting temperature. Use 4-pin 26, 32 or 42 watt lamp. for INDA - 26 watts only.
- 70MH** 70 watt metal halide 120/208/240/277 volt ball ast. Use a medium base, clear ED-17 lamps. For INDF models only.
- 70MHEB** 70 watt electronic metal halide ballast 120 thru 277 volt. Use a medium base, clear ED-17 lamp. For INDF models only.
- 70MHT6** 70 watt metal halide magnetic, multitap ballast 120/277 volt. Use a G12 base, clear T-6 ceramic MH lamp.
- 70MHT6EB** 70 watt electronic metal halide ballast 120 thru 277 volt. G12 base, use a clear T-6 ceramic metal halide lamp.
- 100MH** 100 watt metal halide 120/208/240/277 volt ball ast. Use a medium base, clear ED-17 lamps. For INDF models only.
- 150MH** 150 watt metal halide 120/208/240/277 volt ball ast. Use a medium base, clear ED-17 lamps. For INDF models only.
- 150MHEB** 150 watt electronic metal halide ballast 120 thru 277 volt. Use a medium base, clear ED-17 l amp. For INDF models only.
- 150MHT6** 150 watt metal halide magnetic multitap ballast 120/208/240/277 volt. G12 base, use a clear T-6 ceramic metal halide lamp.
- IL-55** 55 watt, Phillips Induction Lamp system with transformer. Specify 120, 208, 240 or 277 volt. For INDF models only.
- IL-85** 85 watt, Phillips Induction Lamp system with transformer. Specify 120, 208, 240 or 277 volt.

**5 COLORS**

- WHT** White
- LGY** Light Grey
- MAL** Matte Aluminum
- MDG** Medium Grey
- ATG** Antique Green
- VGR** Verde Green
- WRZ** Weathered Bronze
- DGN** Dark Green
- CRT** Corten
- BRM** Metallic Bronze
- DBZ** Dark Bronze
- BLK** Black
- MTB** Matte Black
- RAL #** Provide a RAL 4 digit color number
- CUSTOM** Please provide a color chip for matching

All ballasts are factory wired for 277 volts. Lamps not included.

SOLD TO	PO #	JOB NAME

Approvals

## Architectural Area Lighting

14249 Artesia Blvd / La Mirada, CA 90638  
 714.994.2700 / fax 714.994.0522 / www.aal.net  
 Ref: Indirect.pdf copyright 2005, design patented

4 OPTIONS

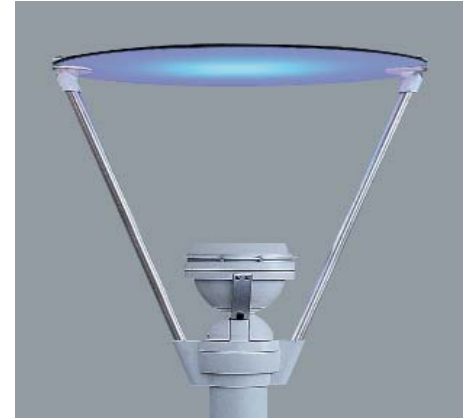
**CDC** Center deflector cone for round reflector (RD). Provides a wider light distribution.



**SR** Two aluminum rings attached to the fixture, for INDA (adjustable model) only. Factory installed.



**CFH** Color filter holder attached to the fixture, for INDA (adjustable model) only. Factory installed.



**LAMP70** Philips® 70 watt clear T-6 ceramic metal halide lamp, CDM70/T6/830

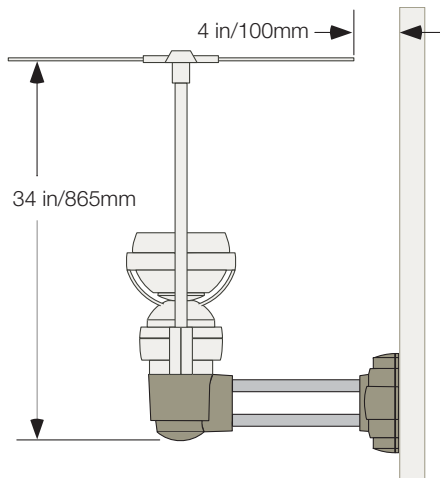
**LAMP150** Philips® 150 watt clear T-6 ceramic metal halide lamp, CDM70/T6/830

**347** 120/277/347 magnetic ballast for the 150 watt metal halide lamp.

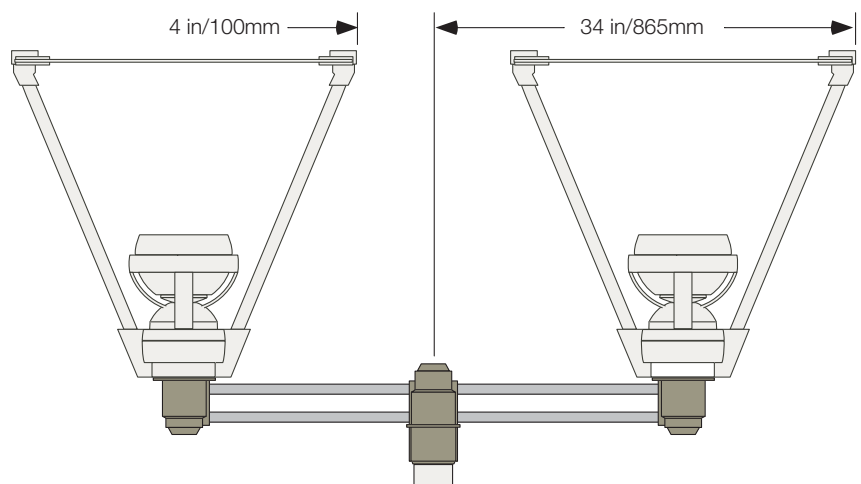
**AD5** Cast aluminum adapter for the PMAT arm to slip over a 5"/127mm pole

6 ARMS FOR WALL OR POLE MOUNTING

**WMA** Wall mounted arm, 10 lbs.



**PMAT** Twin pole mount arm, slips over a 4"/100mm pole or tenon. 14 lbs, EPA: .83



## Specifications

### UPPER REFLECTOR

The upper reflector shall be a light weight aluminum composite. The reflector shall be finished in a white, fluoropolymer finish. The reflector shall be attached to the cast aluminum pivot joints and secured with four stainless steel bolts. Two cast aluminum, adjustable knuckles shall connect the reflector assembly to the vertical, stainless steel struts. The struts are #316 stainless steel with a minimum .250" wall thickness. The struts shall have threaded connections for attachment to the upper reflector and the lamp module.

### LAMP MODULE

The reflector shall be enclosed in die cast aluminum housing. The front cover is secured with four cap screws for relamping and internal access. The front glass element is clear, tempered glass. The front cover and electrical module are sealed with a memory retentive, molded silicone gaskets.

The parabolic reflector shall be prefocused to illuminate the upper reflector with no stray light beyond the reflector. The INDA model lamp module swivels, to center the beam on a tilted reflector, by loosening two stainless steel cap screws. All internal and external hardware is stainless steel.

### HOUSING

The INDA and INDF post top models shall slip over a 5" o.d. pole.

### ELECTRICAL MODULE

The ballast is mounted on a prewired plate with a quick disconnect plug. Magnetic metal halide ballasts are high power factor, rated for -30°F starting. Electronic metal halide ballasts are rated for -30°F starting, sound rating A, 120 thru 277 volt. Sockets are pulse rated porcelain, bi-pin, G12 for T-6 lamps. A porcelain screw base for the mini-cand T-4 halogen lamp. The compact fluorescent shall have an electronic transformer, 120 thru 277 volt.

### FINISH

Fixture finish consists of a five stage pretreatment regimen with a polymer primer sealer, oven dry off and top coated with a thermoset super TGIC polyester powder coat finish. The finish shall meet the AAMA 605.2 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance.

The reflector shall be painted white. The vertical struts are #4 brushed stainless steel. All other fixture parts shall be finished in the same specified color.

### CERTIFICATION

The fixture shall be listed with ETL and U.L. for outdoor, wet location use, UL1598 and Canadian CSA Std. C22.2 NO.250. IP=66

#### **EPA: INDA or INDF**

**with round upper reflector: 3.65**

**with square upper reflector: 4.40**

### WARRANTY

Fixture shall be warranted for three years. Ballast components carry the ballast manufacturer's limited warranty.