

# CONICAL DROP LENS

## Model 16CDL



Model 16CDL

### Description

The Model 16CDL is a 16" Conical Drop Lens designed to mount directly to the 816 Reflexor® or to other reflectors of the same size with a roll form clamp band.

### Application

The Model 16CDL is designed to be used with up to 250W vertically oriented HID lamps for both medium and low-bay lighting applications. The lens both lifts the main beam and breaks up the lamp image.

### Lamp Data

The 16CDL is used primarily with HID lamps. Luminaire design, reflector configuration, lamp position and ambient temperature will affect the inside surface temperature. Thermal tests should be conducted on each luminaire design to confirm appropriate lamp size for the application.

### Ordering Information

Please call 877-257-5841 for price and delivery. Typical lead time is four to six weeks.

### Service Life

The service life of acrylic lenses is virtually unlimited when used within the recommended temperature limit. Polycarbonate lenses are subject to yellowing especially when used with high ultraviolet output light sources; this effect is enhanced at high temperatures.

### Notice

A.L.P. Lighting Components, Inc. assumes no responsibility for suitability of luminaires and applications. The use of our molded products at excessive temperatures with high UV output light sources will cause degradation of the material. Information regarding the use of lenses and refractors with Metal Halide lamps can be found in the Products/Technical Resources section of our web site at [www.alplighting.com](http://www.alplighting.com). \*See second page for important UL information.



### Model 16CDL

16" diameter lens

CONICAL LENS  
COMMERCIAL, INDUSTRIAL,  
DECORATIVE APPLICATIONS

Efficiency: 89.3%

Uplight: 26.1%

CIE type: Semi-Direct

Luminaire spacing Criteria: 2.2

Materials: Acrylic,  
Acrylic Moon Glow™,  
Polycarbonate  
and Custom Colors

800 Series Products:

9" Model 809

11" Model 811

12" Model 812

12" Model 812i interface

12" Model 812 Designer

16" Model 816

16" Model 816U lightweight

16" Model 816i interface

16" Model 16CDL Conical Drop Lens

22" Model 822

22" Model 822GV lightweight

22" Model 822i interface

22" Model 22CDL Conical Drop Lens

22" Model 22SCDL Silicone Conical Drop Lens

25" Model 825

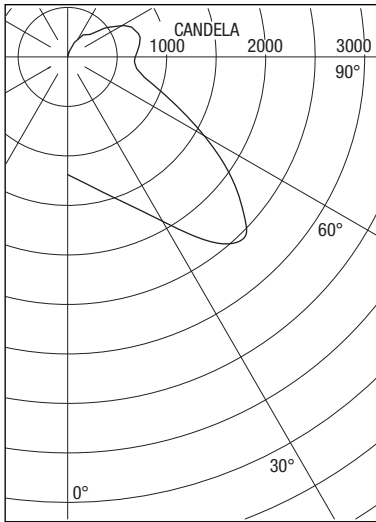
25" Models 825A & 825M Prismatic Lenses



**A.L.P.**  
LIGHTING COMPONENTS, INC.  
WEB SITE: [WWW.ALPLIGHTING.COM](http://WWW.ALPLIGHTING.COM)

 **LEXALITE**

# Model 16CDL Conical Drop Lens



## Photometrics:

The acrylic version of the 16CDL Conical Drop Lens yields an overall efficiency of 89.3% when assembled with the Model 816 and a 175W phosphor coated metal halide lamp positioned 7" above the lower rim. Uplight of luminaire is increased to 26.1% versus 19.7% for the open Model 816. The main beam is located at 45° vertical with an intensity of approximately 2544 candela (ITL47843). A distribution range from 1.7-2.2 allows it to be used in a variety of mounting heights without a decrease in performance.

Report Number: ITL47843  
 Total Luminaire Efficiency: 89.3%  
 CIE Type: Semi-Direct  
 Luminaire Spacing Criterion: 2.2

## Accessory

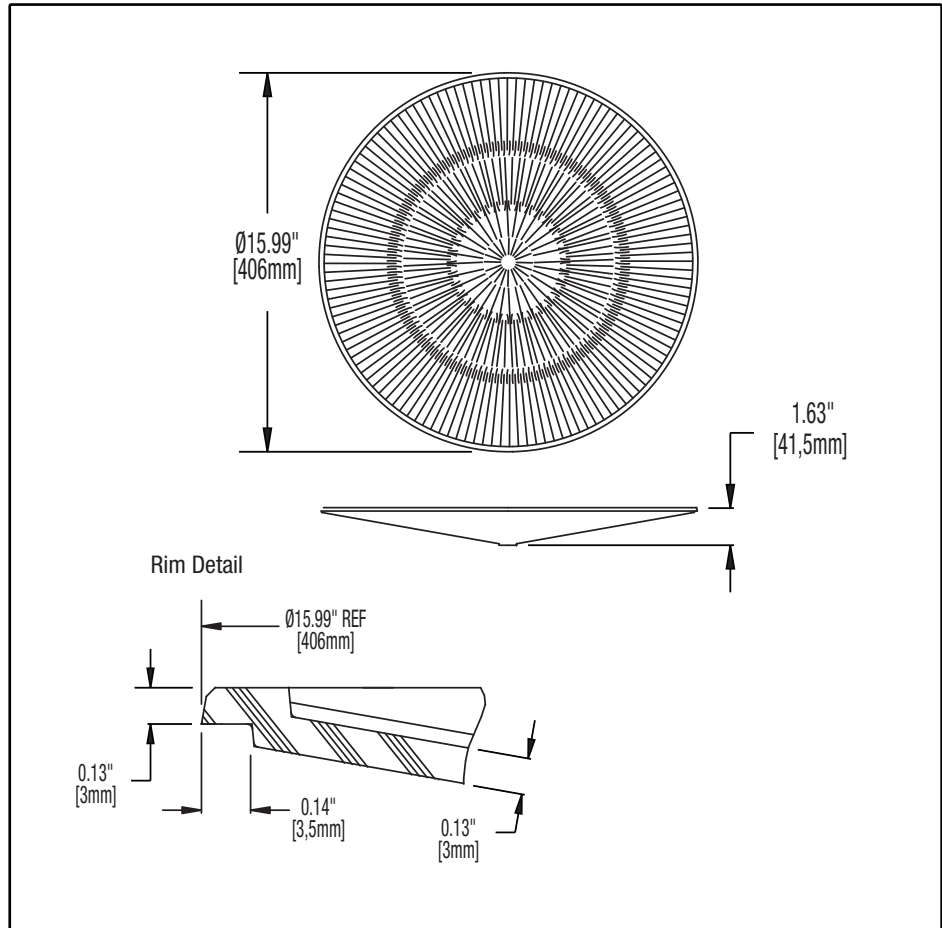
### Stainless steel clamp band

For attachment of bottom closure.

## Materials

See the LexaLite® brand price list for current part numbers and material offerings. Up-to-date and detailed material specifications can be found in the Products/Technical Resources section of our web site at [www.alplighting.com](http://www.alplighting.com).

When using an acrylic Model 16CDL, the surface temperature of the lens should not exceed 80°C. When using a polycarbonate Model 16CDL, the surface temperature of the lens should not exceed 90°C.



**This drawing is for reference only. Actual part dimensions will vary. Customer is urged to review actual samples to confirm fit and function. All specifications and dimensions are subject to change without notice.**

**\*Effective June 30, 2010, lenses associated with this product will no longer be UL recognized components. A.L.P. LexaLite recommends the use of open rated lamps with any polymeric lens. These lenses should not be used as arc retention devices.**

