

# KHATOD®

Optical Solutions for LED Lighting

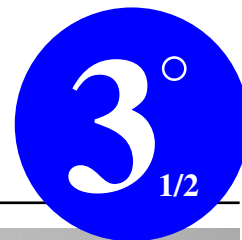
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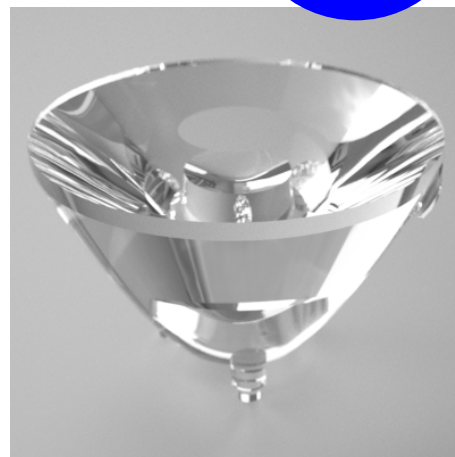
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Technical Department  
Product's Technical Brief



## Ultra Narrow Punch Beam Lens

- LED Chip Projection on target totally eliminated;
- Clean Spot, Efficiency > 89%;
- Optical Grade PMMA;
- 3 Pins provided for precise and robust mounting;
- Available in **35 mm, 46.8 mm, and 50 mm** diameter;
- FWHM = 3.5° for 1 mm<sup>2</sup> chip area LEDs;
- CBCP (Center Beam Candle Power) = 150 cd/lm;
- Smallest Shape Factor Lens (Diameter × FWHM / ChipSize).



*Illuminance values are computed for 25 W luminaire of 120 lm/W LEDs*

Lens



25 m (82 ft)  
720 lux

50 m (164 ft)  
180 lux

75 m (246 ft)  
80 lux

100 m (328 ft)  
45 lux

### Typical Applications

- Punch Beam;
- Spot light;
- Entertainment lighting;
- Architectural lighting;
- Wall washer;
- Stage lighting;
- Decorative lighting;
- Shop windows, halls & entrances;
- Flashlights.

### Beam Angle for Common LEDs

- 3.5° CREE XLAMP XP-E2;
- 4.2° CREE XLAMP XP-E;
- 5.2° CREE XLAMP XP-G2;
- 5.5° CREE XLAMP XP-G;
- 5.5° OSRAM OSOLON SQUARE;
- ... and more on <http://www.khatod.com>.

### Part Number & Dimensions

PL1672UN:  $\phi = 35.0$  mm, H = 21 mm  
 PL1675UN:  $\phi = 50.0$  mm, H = 21 mm  
 PL1738UN:  $\phi = 46.8$  mm, H = 21 mm