

**LEDs Manufacturers**

- select an option - ▾ | ✕

**LEDs**

-- select LEDs Manufa | ✕

**Product ranges**

- select an option - ▾ | ✕

**Diameter (mm)**

-- min - | ✕ -- max - | ✕

**Side (mm)**

-- min - | ✕ -- max - | ✕

**Height (mm)**

-- min - | ✕ -- max - | ✕

**Pitch (mm)**

- select an option - ▾ | ✕

**Material**

None selected

None selected

**Viewing Angle (FWHM)...**

-- min - | ✕ -- max - | ✕

**... or select Angle from list**

- select an option - ▾ | ✕

**Type of Optics**

- select an option - ▾ | ✕

**Single vs Multi Optics**

- select an option - ▾ | ✕

**Application engineering**

- select an option - ▾ | ✕

**Application required**

None selected

None selected

Reset all

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PL1590UN

## Single Lenses for Power LEDs - Ultra Narrow Beam - Color Mixing

Single Lenses for Power LEDs  
45,00mm diameter - 25,15mm height - Ultra Narrow Beam - Colour Mixing

**BENEFIT:**

- Innovative design
- High optical efficiency over 90%
- Perfect uniform flux
- Shadows or glare totally eliminated
- Easy fixing onto the PCB

**MATERIAL:**

PMMA

**TYPICAL APPLICATIONS:**

- Color mixing optics
- Facade lighting
- Indoor
- Indoor architectural & general lighting
- Indoor recessed fixtures
- Indoor spotlights
- Industrial Light - Commercial Light
- IR
- Office
- Outdoor
- Outdoor architectural
- Outdoor wall-mounted luminaires
- Security lighting
- Spot lighting and projectors
- Stadium / sports arena lighting
- Table and floor lamps

- Task lighting
- Track systems

By positioning Khatod lenses onto the micro LEDs in Red, Green, Blue and White (RGBW) colors, a real perfect optical system providing an excellent color mixing is settled. Such optical systems are suitable for lighting items at short distance, because the light beams they produce do not transmit either UV rays or heat. They are particularly fit for close lighting such as shop windows, museum showcases, works of art, architectural and artistic details, etc. They are also recommended in the specific wall-washing lighting which requires a perfect uniform light beam.

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### LEDs Manufacturers

-- - select an option - --



### LEDs

-- select LEDs Manufacturer first --



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**KHATOD**<sup>®</sup>  
Optical Solutions for LED Lighting

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