



CRYSTAL – Power and punch in a compact package

LEDiL's CRYSTAL and CRYSTAL-MINE lenses offer unsurpassed light quality for a variety of lighting applications. A narrow beam combined with over 90% efficiency means more light for tough tasks in demanding environments. According to mining head lamp specifications CRYSTAL-MINE has 10% added illumination over the cut-off area. In comparison CRYSTAL is designed to have a tight uniform beam and a maximum candela peak. CRYSTAL offers a very narrow beam, FWHM's as narrow as 3° are possible.

FEATURES and BENEFITS

- Very narrow beam
- High center peak candela power
- Very good control of light
- CRYSTAL-MINE lens is designed according the mining head lamp requirements
- Highly efficient TIR design

MARKETS and TYPICAL APPLICATIONS

- Head lamps and torches
- Spotlights and general illumination

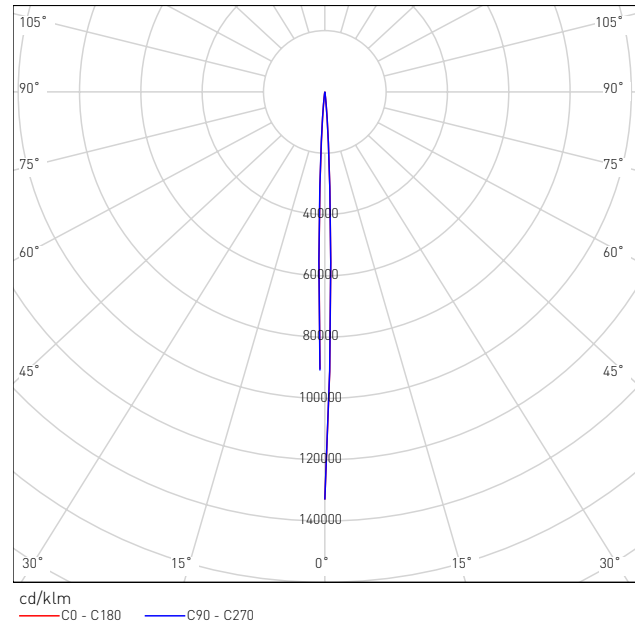


CN13552_CRYSTAL-RS

TECHNICAL SPECIFICATIONS

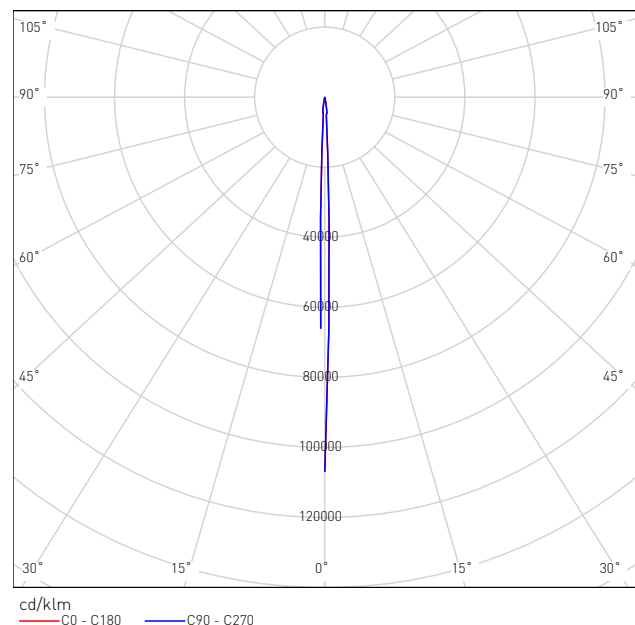
CRYSTAL-RS

- Height: 28.7 mm
- Diameter: 49.7 mm
- Beam type: Real spot
- Typical efficiency: 89%
- Typical FWHM: 5.1°
- Precision-molded from optical grade PMMA – UL94 HB rated material with operating rating -40°C to +80°C



CRYSTAL-MINE

- Height: 28.7 mm
- Diameter: 49.7 mm
- Beam type: Spot
- Typical efficiency: 90%
- Typical FWHM: 4.9°
- Precision-molded from optical grade PMMA – UL94 HB rated material with operating rating -40°C to +80°C



ORDERING INFORMATION

CN13552_CRYSTAL-RS

CN13595_CRYSTAL-MINE

Visit www.ledil.com for ordering codes and latest product specifications, which may vary by LED