

CRYSTAL-MINE

~4.9° spot beam especially designed for mining headlamps

TECHNICAL SPECIFICATIONS:

Dimensions	Ø 46.8 mm
Height	27.4 mm
Fastening	snaps
ROHS compliant	yes ⓘ

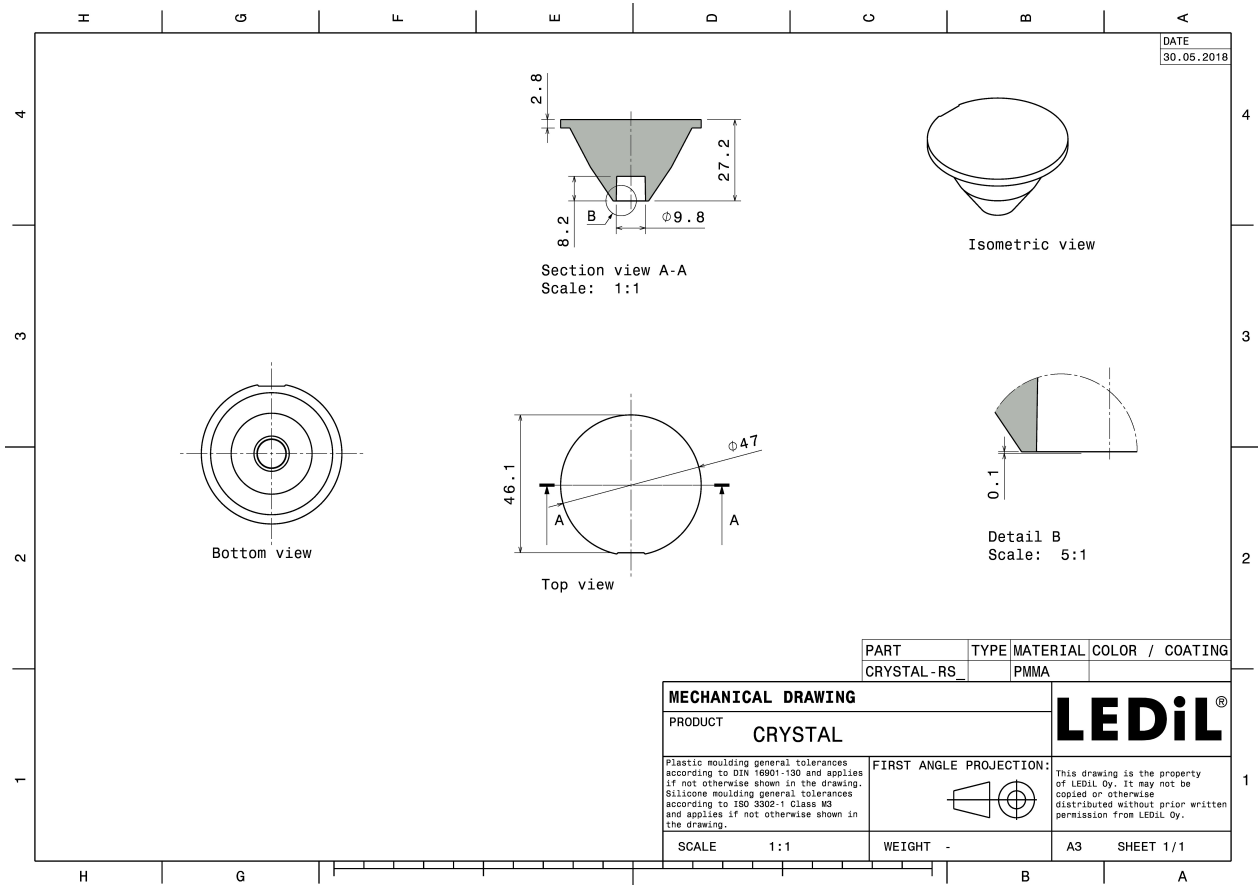
MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
CRYSTAL-MINE	Single lens	PMMA	clear	



ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
F12985_CRYSTAL-MINE » Box size: 480 x 280 x 300 mm	288	64	32	7.1



PHOTOMETRIC DATA (MEASURED):

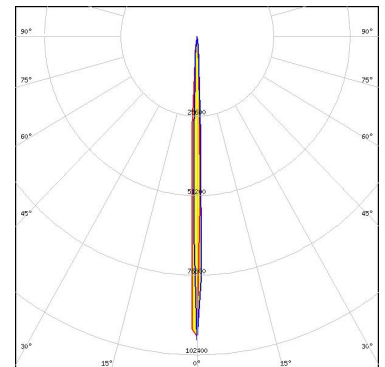
CREE

LED XM-L2
FWHM 6.9°
Efficiency 90 %
Peak intensity 35 cd/Im
LEDs/each optic 1
Light colour White
Required components:



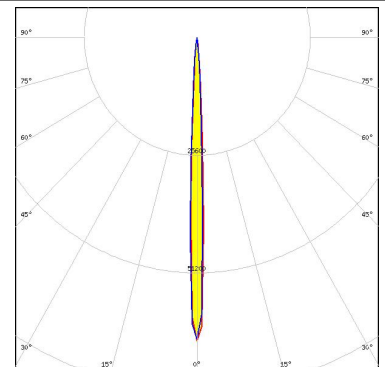
CREE

LED XP-E
FWHM 3.0°
Efficiency 92 %
Peak intensity 96 cd/Im
LEDs/each optic 1
Light colour White
Required components:



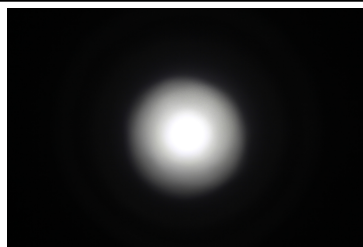
CREE

LED XP-G
FWHM 4.7°
Efficiency 90 %
Peak intensity 66.9 cd/Im
LEDs/each optic 1
Light colour White
Required components:



CREE

LED XP-G2
FWHM 4.6°
Efficiency 90 %
Peak intensity 65.2 cd/Im
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (MEASURED):

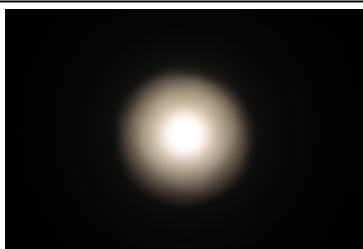
LUMILEDS

LED LUXEON A
FWHM 4.9°
Efficiency 89 %
Peak intensity 58.2 cd/Im
LEDs/each optic 1
Light colour White
Required components:



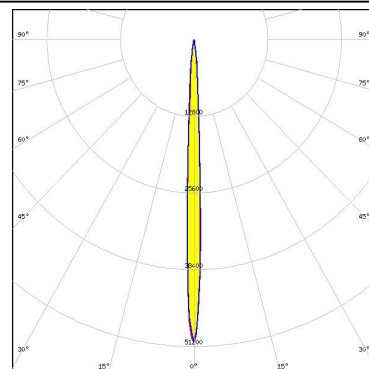
LUMILEDS

LED LUXEON T
FWHM 4.9°
Efficiency 89 %
Peak intensity 55.1 cd/Im
LEDs/each optic 1
Light colour White
Required components:



LUMILEDS

LED LUXEON TX
FWHM 5.0°
Efficiency 94 %
Peak intensity 50.6 cd/Im
LEDs/each optic 1
Light colour White
Required components:



NICHIA

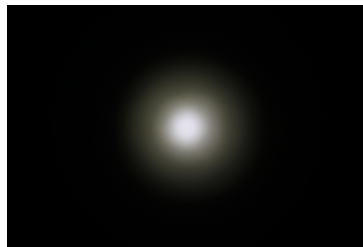
LED NCSxx19B
FWHM 3.6°
Efficiency 90 %
Peak intensity 73.3 cd/Im
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (MEASURED):

SAMSUNG

LED LH351B
FWHM 5.1°
Efficiency 90 %
Peak intensity 51.8 cd/Im
LEDs/each optic 1
Light colour White
Required components:



SAMSUNG

LED LH351Z
FWHM 4.2°
Efficiency 90 %
Peak intensity 71.4 cd/Im
LEDs/each optic 1
Light colour White
Required components:



GENERAL INFORMATION:

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

MATERIALS:

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