

CRYSTAL-MINE

~4.9° spot beam especially designed for mining headlamps. Assembly with holder.

TECHNICAL SPECIFICATIONS:

Dimensions Ø 50.3 mm

Height 28.7 mm

Fastening pin, screw

Colour white

Box size

Box weight 0 kg

Quantity in Box 288 pcs

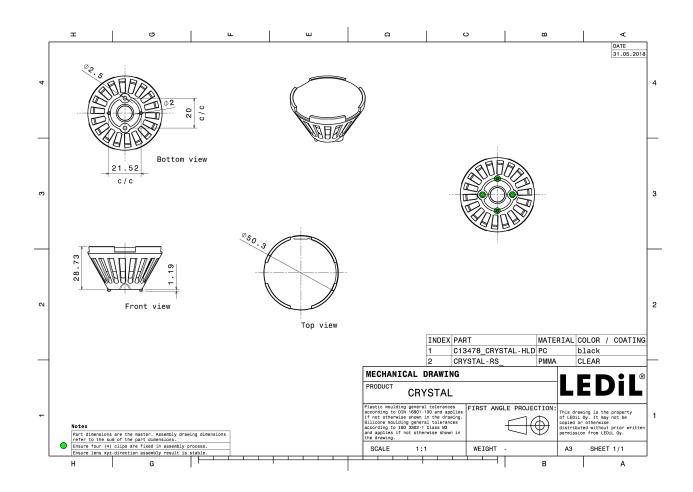
ROHS compliant yes 1



MATERIAL SPECIFICATIONS:

Component	Туре	Material	Colour
CRYSTAL-MINE	Single lens	PMMA	clear
CRYSTAL-HLD	Holder	PC	white





PHOTOMETRIC DATA (MEASURED):

CREE 💠

LED XM-L2 FWHM 6.9° Efficiency 90 % Peak intensity 35.000 cd/lm

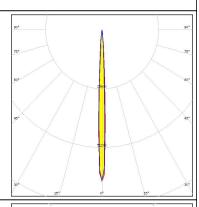
LEDs/each optic 1
Light colour White
Required components:



CREE 🕏

LED XP-G
FWHM 4.7°
Efficiency 90 %
Peak intensity 66.900 cd/lm

LEDs/each optic 1
Light colour White
Required components:

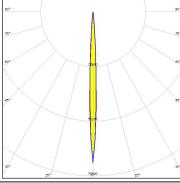


CREE \$

LED XP-G2
FWHM 4.6°
Efficiency 90 %
Peak intensity 65.200 cd/lm

LEDs/each optic 1
Light colour White
Required components:

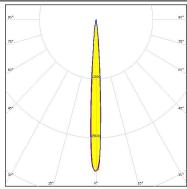




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LED XP-L HD
FWHM 7.0°
Efficiency 86 %
Peak intensity 33.000 cd/lm



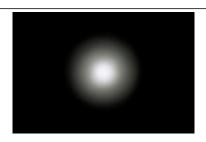


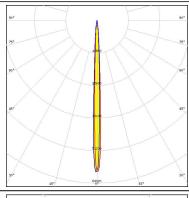
PHOTOMETRIC DATA (MEASURED):

CREE 💠

LED XP-L HI
FWHM 4.5°
Efficiency 92 %
Peak intensity 60.000 cd/lm

LEDs/each optic 1
Light colour White
Required components:





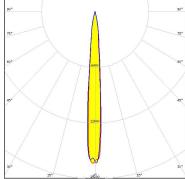
MUMILEDS

LED LUXEON 5050

FWHM 9.0° Efficiency 94 % Peak intensity 17.457 cd/lm

LEDs/each optic 1 Light colour White Required components:





MUMILEDS

LED LUXEON A
FWHM 4.9°
Efficiency 89 %
Peak intensity 58.200 cd/lm

LEDs/each optic 1
Light colour White
Required components:

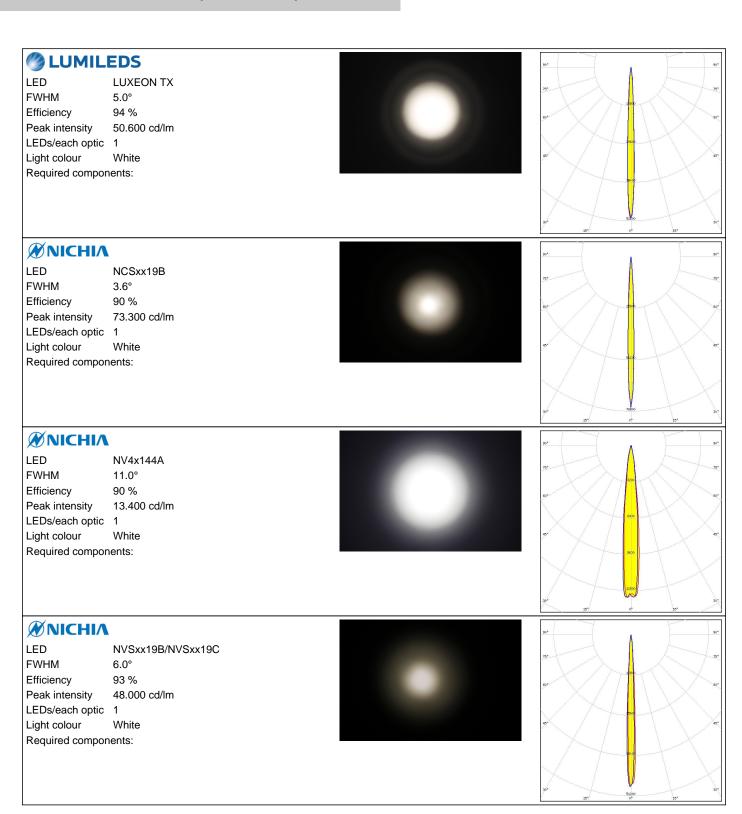


DESCRIPTION LUMILEDS

LED LUXEON T
FWHM 4.9°
Efficiency 89 %
Peak intensity 55.100 cd/lm



PHOTOMETRIC DATA (MEASURED):



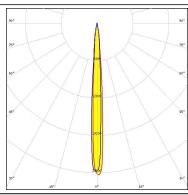
PHOTOMETRIC DATA (MEASURED):

WNICHIA

LED NWSx229A
FWHM 7.0°
Efficiency 91 %
Peak intensity 26.000 cd/lm
LEDs/each optic 1

LEDs/each optic 1 Light colour White Required components:





SAMSUNG

LED LH351B FWHM 5.1° Efficiency 90 % Peak intensity 51.770 cd/lm

LEDs/each optic 1 Light colour White Required components:



SAMSUNG

LED LH351Z FWHM 4.2° Efficiency 90 % Peak intensity 71.400 cd/lm

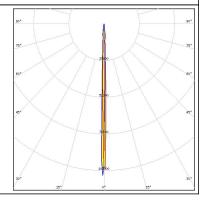
LEDs/each optic 1
Light colour White
Required components:





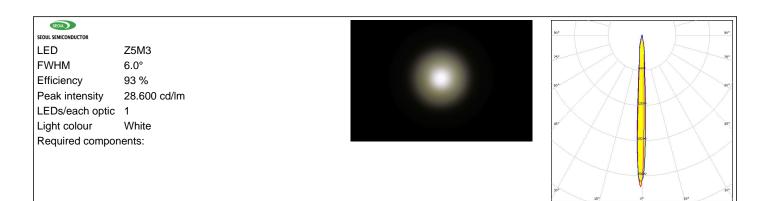
LED nPola
FWHM 2.0°
Efficiency 94 %
Peak intensity 114.000 cd/lm







PHOTOMETRIC DATA (MEASURED):



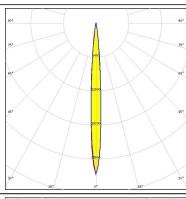
PHOTOMETRIC DATA (SIMULATED):



LED XHP35 HD **FWHM** 7.8° Efficiency 94 % Peak intensity 28.600 cd/lm

LEDs/each optic 1 Light colour White Required components:



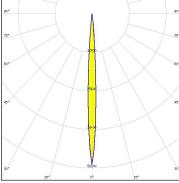


CREE 🕏

LED XHP35 HI **FWHM** 6.2° Efficiency 94 % Peak intensity 50.400 cd/lm

LEDs/each optic 1 White Light colour Required components:



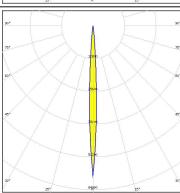


OSRAM Opto Semiconductors

LED OSCONIQ P 3737 (2W version)

FWHM 5.5° Efficiency 94 % Peak intensity 59.300 cd/lm

LEDs/each optic 1 Light colour White Required components:

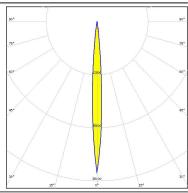


OSRAM Opto Semiconductors

LED OSCONIQ P 3737 (3W version)

FWHM 5.5° Efficiency 94 % 59.300 cd/lm Peak intensity

LEDs/each optic 1 White Light colour Required components:



PHOTOMETRIC DATA (SIMULATED):

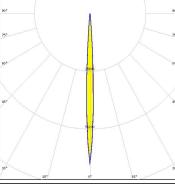
OSRAM

LED OSLON Square CSSRM2/CSSRM3

FWHM 5.4° Efficiency 94 % Peak intensity 67.000 cd/lm

LEDs/each optic 1
Light colour White
Required components:



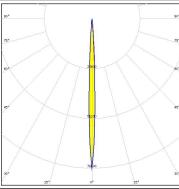


OSRAM Opto Semiconductors

LED OSLON Square Flat

FWHM 4.8°
Efficiency 94 %
Peak intensity 78.000 cd/lm

LEDs/each optic 1 Light colour White Required components:



SECUL SEMICONDUCTOR

Efficiency

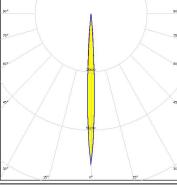
LED Z5M1/Z5M2 FWHM 5.4°

Peak intensity 66.700 cd/lm

94 %

LEDs/each optic 1 Light colour White Required components:





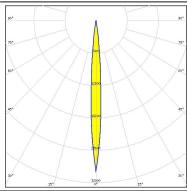
SEOUL SEMICONDUCTOR

 LED
 Z8Y22P

 FWHM
 7.8°

 Efficiency
 94 %

 Peak intensity
 29.900 cd/lm





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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LEDIL Oy

Joensuunkatu 13 FI-24240 SALO Finland

LEDiL Inc.

228 West Page Street Suite D Sycamore IL 60178 USA

Local sales and technical support

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