

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

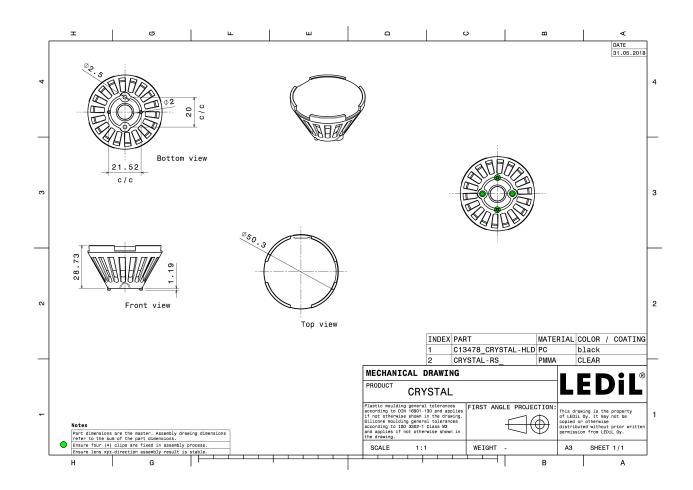
ROHS compliant yes 1



MATERIAL SPECIFICATIONS:

Component	Туре	Material	Colour
CRYSTAL-MINE	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

Required components:



CREE &

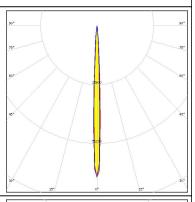
LED XP-G

FWHM 4.7°

Efficiency 90 %

Peak intensity 66.900 cd/lm

Required components:



CREE \$

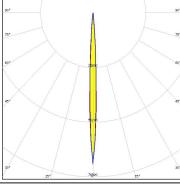
LED XP-G2

FWHM 4.6° Efficiency 90 %

Peak intensity 65.200 cd/lm

Required components:





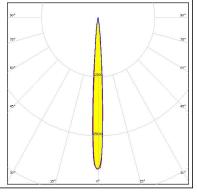
CREE 💠

LED XP-L FWHM 7.0°

Efficiency 86 %

Peak intensity 33.000 cd/lm





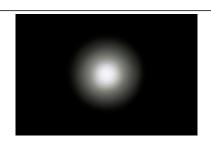
PHOTOMETRIC DATA (MEASURED):

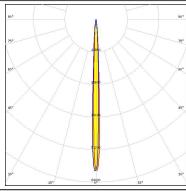
CREE \$

LED XP-L HI FWHM 4.5° Efficiency 92 %

Peak intensity 60.000 cd/lm

Required components:





MUMILEDS

LED LUXEON A

FWHM 4.9° Efficiency 89 %

Peak intensity 58.200 cd/lm

Required components:



MILEDS

LED LUXEON T

FWHM 4.9° Efficiency 89 %

Peak intensity 55.100 cd/lm

Required components:



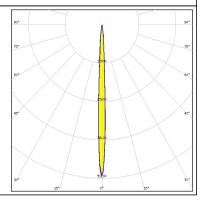
MUMILEDS

LED LUXEON TX

FWHM 5.0° Efficiency 94 %

Peak intensity 50.600 cd/lm





PHOTOMETRIC DATA (MEASURED):

WNICHIA

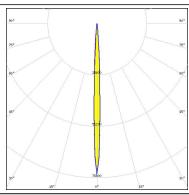
LED NCSxx19B

FWHM 3.6° Efficiency 90 %

Peak intensity 73.300 cd/lm

Required components:





WNICHIA

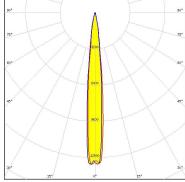
LED NV4x144A

FWHM 11.0° Efficiency 90 %

Peak intensity 13.400 cd/lm

Required components:





WNICHIA

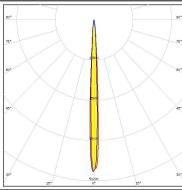
LED NVSxx19B/NVSxx19C

FWHM 6.0° Efficiency 93 %

Peak intensity 48.000 cd/lm

Required components:





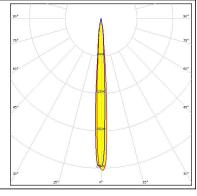
WNICHIA

LED NWSx229A

FWHM 7.0° Efficiency 91 %

Peak intensity 26.000 cd/lm







PHOTOMETRIC DATA (MEASURED):

SAMSUNG

LED LH351B

FWHM 5.1°

Efficiency 90 %

Peak intensity 51.770 cd/lm

Required components:



SAMSUNG

LED LH351Z

FWHM 4.2°

Efficiency 90 %

Peak intensity 71.400 cd/lm



PHOTOMETRIC DATA (SIMULATED):

CREE 💠

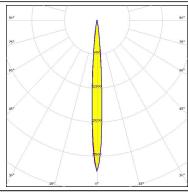
LED XHP35 HD

FWHM 7.8° Efficiency 94 %

Peak intensity 28.600 cd/lm

Required components:





CREE 💠

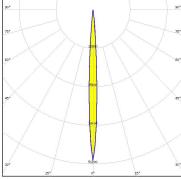
LED XHP35 HI

FWHM 6.2° Efficiency 94 %

Peak intensity 50.400 cd/lm

Required components:





OSRAM Opto Semiconductors

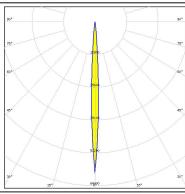
Opto Semiconducto

OSCONIQ P 3737 (2W version)

FWHM 5.5° Efficiency 94 %

Peak intensity 59.300 cd/lm

Required components:

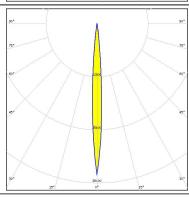


OSRAM Opto Semiconductors

LED OSCONIQ P 3737 (3W version)

FWHM 5.5° Efficiency 94 %

Peak intensity 59.300 cd/lm



PHOTOMETRIC DATA (SIMULATED):

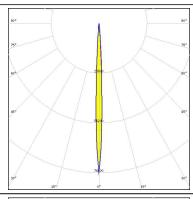
OSRAM Opto Semiconductors

LED Oslon Square Flat

FWHM 4.8° Efficiency 94 %

Peak intensity 78.000 cd/lm

Required components:



OSRAM Opto Semiconductors

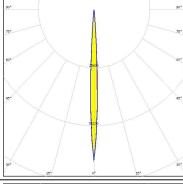
LED Oslon Square Gen3

FWHM 5.4° Efficiency 94 %

Peak intensity 67.000 cd/lm

Required components:





SEOUL SEMICONDUCTOR

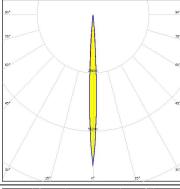
LED Z5M1/Z5M2

FWHM 5.4° Efficiency 94 %

Peak intensity 66.700 cd/lm

Required components:

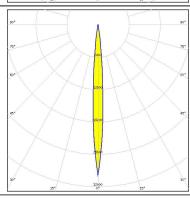




SEOUL SEMICONDUCTO

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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