

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

ROHS compliant yes 10



MATERIAL SPECIFICATIONS:

ComponentTypeMaterialColourFinishCRYSTAL-MINESingle lensPMMAclearCRYSTAL-HLDHolderPCwhite

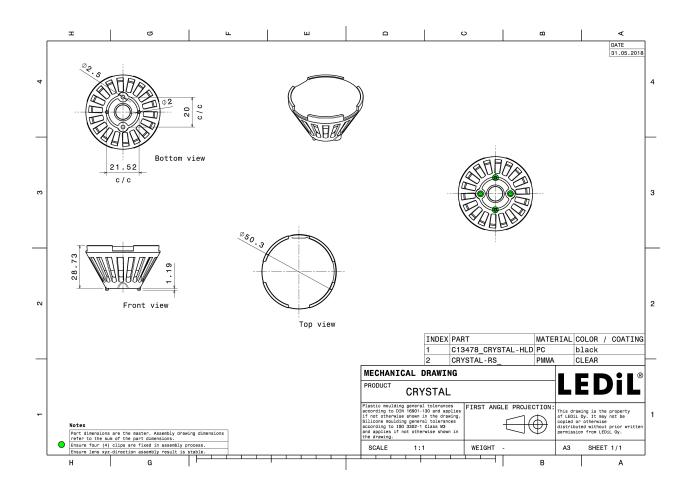
ORDERING INFORMATION:

Component Qty in box MOQ MPQ Box weight (kg)

FCN13595_CRYSTAL-MINE Single lens 288 64 32 0.0

» Box size:





PHOTOMETRIC DATA (MEASURED):

CREE 💠

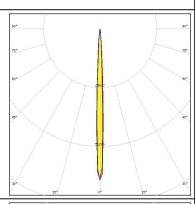
LED XM-L2
FWHM 6.9°
Efficiency 90 %
Peak intensity 35 cd/lm
LEDs/each optic 1
Light colour White
Required components:



CREE 🕏

LED XP-G
FWHM 4.7°
Efficiency 90 %
Peak intensity 66.9 cd/lm

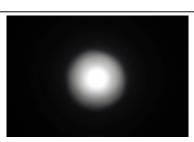
LEDs/each optic 1
Light colour White
Required components:

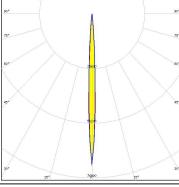


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LED XP-G2
FWHM 4.6°
Efficiency 90 %
Peak intensity 65.2 cd/lm

LEDs/each optic 1
Light colour White
Required components:

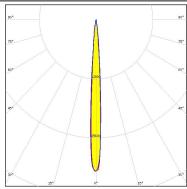




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LED XP-L HD FWHM 7.0°
Efficiency 86 % Peak intensity 33 cd/lm LEDs/each optic 1 Light colour White Required components:

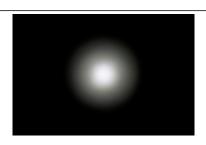


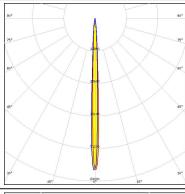


PHOTOMETRIC DATA (MEASURED):

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LED XP-L HI
FWHM 4.5°
Efficiency 92 %
Peak intensity 60 cd/lm
LEDs/each optic 1
Light colour White
Required components:



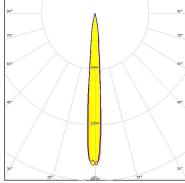


MUMILEDS

LED LUXEON 5050 Round LES

FWHM 9.0°
Efficiency 94 %
Peak intensity 17.5 cd/lm
LEDs/each optic 1
Light colour White





MUMILEDS

Required components:

LED LUXEON A
FWHM 4.9°
Efficiency 89 %
Peak intensity 58.2 cd/lm

LEDs/each optic 1
Light colour White
Required components:



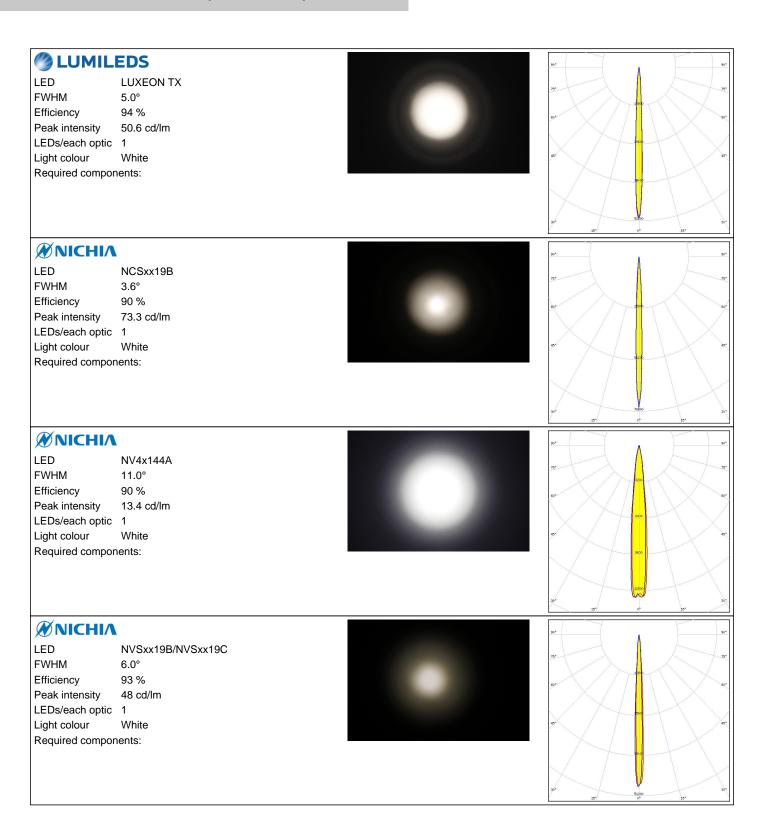
DESCRIPTION LUMILEDS

LED LUXEON T
FWHM 4.9°
Efficiency 89 %
Peak intensity 55.1 cd/lm

LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (MEASURED):



PHOTOMETRIC DATA (MEASURED):

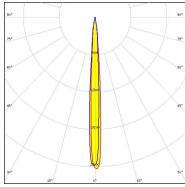
WNICHIA

Light colour

LED NWSx229A FWHM 7.0°
Efficiency 91 %
Peak intensity 26 cd/lm
LEDs/each optic 1

White





SAMSUNG

Required components:

LED LH351B
FWHM 5.1°
Efficiency 90 %
Peak intensity 51.8 cd/lm

LEDs/each optic 1 Light colour White Required components:



SAMSUNG

LED LH351Z
FWHM 4.2°
Efficiency 90 %
Peak intensity 71.4 cd/lm

LEDs/each optic 1
Light colour White
Required components:

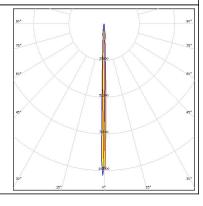




LED nPola FWHM 2.0° Efficiency 94 % Peak intensity 114 cd/lm

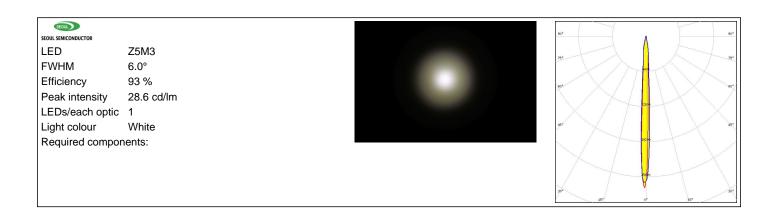
LEDs/each optic 1
Light colour White
Required components:







PHOTOMETRIC DATA (MEASURED):



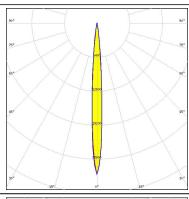
PHOTOMETRIC DATA (SIMULATED):

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LED XHP35 HD **FWHM** 7.8° Efficiency 94 % Peak intensity 28.6 cd/lm

LEDs/each optic Light colour White Required components:



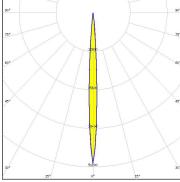


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LED XHP35 HI **FWHM** 6.2° Efficiency 94 % Peak intensity 50.4 cd/lm

LEDs/each optic 1 White Light colour Required components:



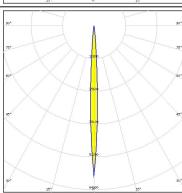


OSRAM Opto Semiconductors

LED OSCONIQ P 3737 (2W version)

FWHM 5.5° Efficiency 94 % Peak intensity 59.3 cd/lm LEDs/each optic

Light colour White Required components:

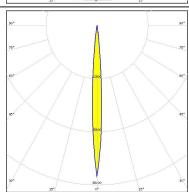


OSRAM Opto Semiconductors

LED OSCONIQ P 3737 (3W version)

FWHM 5.5° Efficiency 94 % Peak intensity 59.3 cd/lm

LEDs/each optic White Light colour Required components:



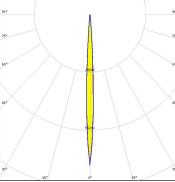
PHOTOMETRIC DATA (SIMULATED):

OSRAM

LED OSLON Square CSSRM2/CSSRM3

FWHM 5.4° 94 % Efficiency Peak intensity 67 cd/lm LEDs/each optic Light colour White Required components:

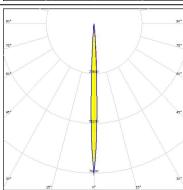




OSRAM Opto Semiconductors

LED OSLON Square Flat

FWHM 4.8° 94 % Efficiency Peak intensity 78 cd/lm LEDs/each optic 1 White Light colour Required components:

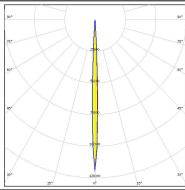


OSRAM Opto Semiconductors

LED OSTAR Projection Compact (Kx.CSLNM1.xx)

FWHM 4.0° Efficiency 94 % Peak intensity 122.8 cd/lm

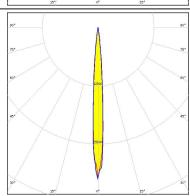
LEDs/each optic Light colour White Required components:



SAMSUNG

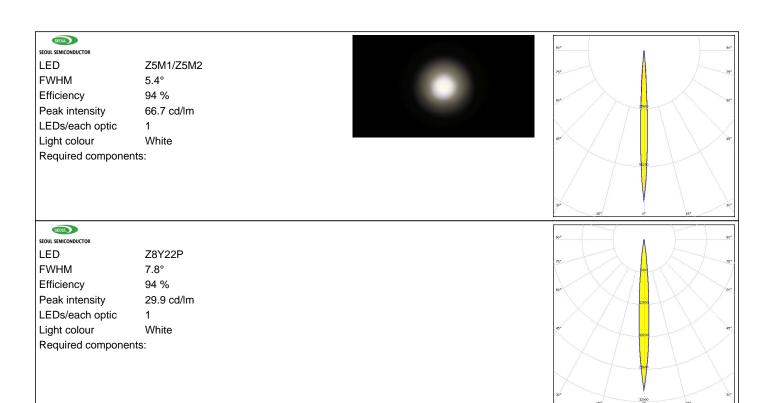
LED LH351D **FWHM** 7.5° Efficiency 97 % 34.2 cd/lm Peak intensity

LEDs/each optic White Light colour Required components:





PHOTOMETRIC DATA (SIMULATED):





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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