

CRYSTAL-MINE

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

SPECIFICATION:

Dimensions Ø 50.3
Height 28.7 mm
Fastening pin, screw
ROHS compliant yes ①



MATERIALS:

Component	Туре	Material	Colour	Finish	Length (mm)
F12985_CRYSTAL-MINE	Single lens	PMMA	clear		
C13478 CRYSTAL-HLD	Holder	PC	white		

ORDERING INFORMATION:

Quantities for one set:

Single lens 1

Holder 1

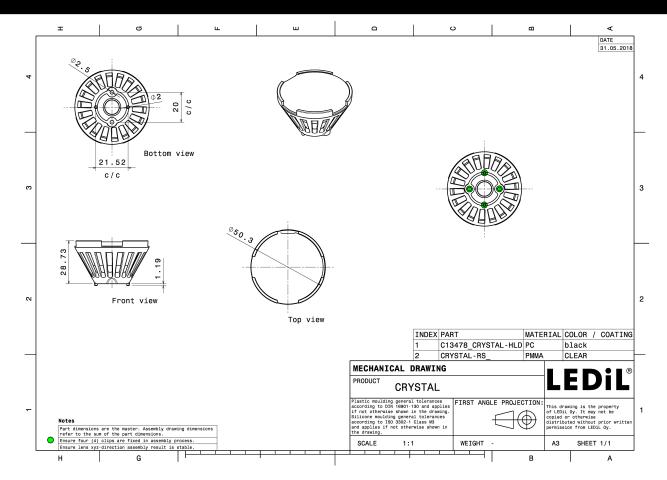


PRODUCT DATASHEET CRYSTAL-MINE

Component		Qty in box	MOQ	MPQ	Box weight (kg)
F12985_CRYSTAL-MINE » Box size: 480 x 280 x 300 mm	Single lens	288	64	32	7.1
C13478_CRYSTAL-HLD » Box size: 480 x 280 x 300 mm	Holder	1152	64	32	6.1



PRODUCT DATASHEET CRYSTAL-MINE



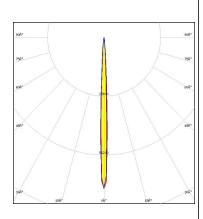
See also our general installation guide: www.ledil.com/installation_guide

Published: 22/03/2022



CREE +

LED XP-G
FWHM / FWTM 4.7° / 10.5°
Efficiency 90 %
Peak intensity 66.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

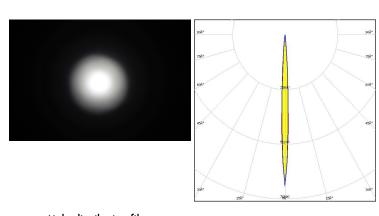


Light distribution files

CREE \$

LED XP-G2
FWHM / FWTM 4.6° / 12.0°
Efficiency 90 %
Peak intensity 65.2 cd/lm
LEDs/each optic 1

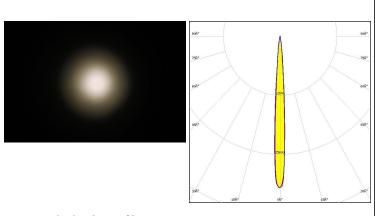
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

CREE -

LED XP-L HD
FWHM / FWTM 7.0° / 14.0°
Efficiency 86 %
Peak intensity 33 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

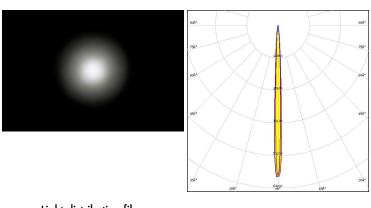


Light distribution files



CREE \$

LED XP-L HI
FWHM / FWTM 4.5° / 12.0°
Efficiency 92 %
Peak intensity 60 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



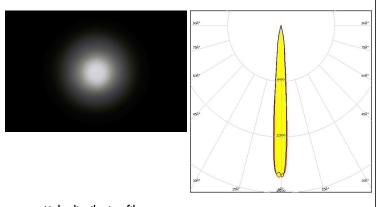
Light distribution files

UMILEDS

LED LUXEON 5050 Round LES

FWHM / FWTM 9.0° / 23.0° Efficiency 94 % Peak intensity 17.5 cd/lm

LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

DESCRIPTION STATES AND ADDRESS OF THE PROPERTY OF THE PROPER

LED LUXEON A
FWHM / FWTM 4.9° / 13.0°
Efficiency 89 %
Peak intensity 58.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files





LED LUXEON T
FWHM / FWTM 4.9° / 13.0°
Efficiency 89 %
Peak intensity 55.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

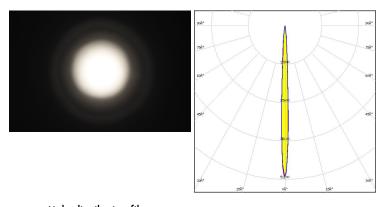


Light distribution files

DESCRIPTION

LED LUXEON TX
FWHM / FWTM 5.0° / 12.6°
Efficiency 94 %
Peak intensity 50.6 cd/lm

LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

WNICHIA

 LED
 NCSxx19B

 FWHM / FWTM
 3.6° / 12.0°

 Efficiency
 90 %

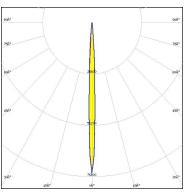
 Peak intensity
 73.3 cd/lm

 LEDs/each optic
 1

 Light colour/type
 White

 Required components:





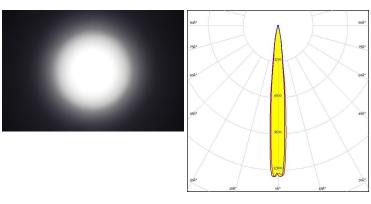
Light distribution files



WNICHIA

Required components:

LED NV4x144A
FWHM / FWTM 11.0° / 24.0°
Efficiency 90 %
Peak intensity 13.4 cd/lm
LEDs/each optic 1
Light colour/type White



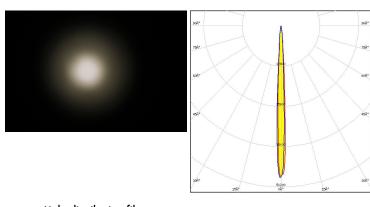
Light distribution files

WNICHIA

LED NVSxx19B/NVSxx19C

FWHM / FWTM 6.0° / 13.0°
Efficiency 93 %
Peak intensity 48 cd/lm
LEDs/each optic 1

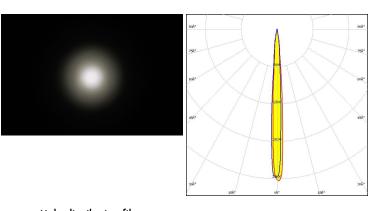
Light colour/type White Required components:



Light distribution files

WNICHIA

LED NWSx229A
FWHM / FWTM 7.0° / 18.0°
Efficiency 91 %
Peak intensity 26 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



SAMSUNG

LED LH351B
FWHM / FWTM 5.1° / 13.0°
Efficiency 90 %
Peak intensity 51.8 cd/lm
LEDs/each optic 1

Light colour/type White Required components:



Light distribution files

SAMSUNG

 LED
 LH351Z

 FWHM / FWTM
 4.2° / 10.0°

 Efficiency
 90 %

 Peak intensity
 71.4 cd/lm

LEDs/each optic 1
Light colour/type White
Required components:



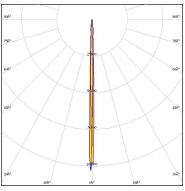
Light distribution files



LED nPola
FWHM / FWTM 2.0° / 7.0°
Efficiency 94 %
Peak intensity 114 cd/lm

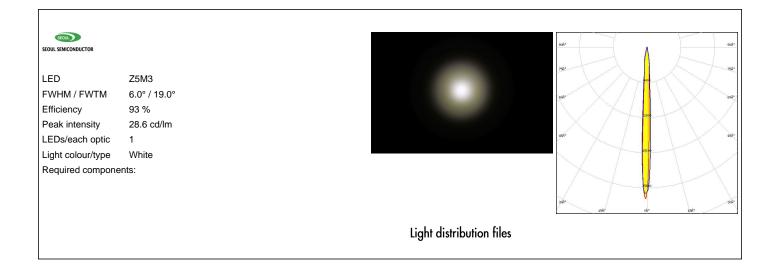
LEDs/each optic 1
Light colour/type White
Required components:





Light distribution files

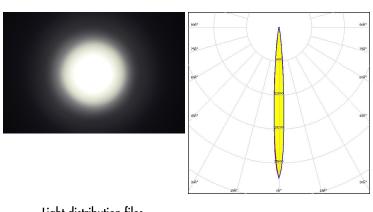








XHP35 HD LED FWHM / FWTM 7.8° / 17.0° Efficiency 94 % Peak intensity 28.6 cd/lm LEDs/each optic 1 White Light colour/type Required components:

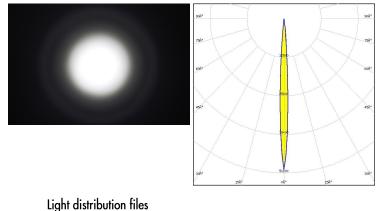


Light distribution files

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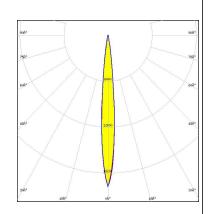
XHP35 HI LED FWHM / FWTM 6.2° / 13.0° Efficiency 94 % Peak intensity 50.4 cd/lm LEDs/each optic Light colour/type White

Required components:



CREE \$

XHP35.2 HD FWHM / FWTM 10.0° / 19.0° Efficiency 94 % Peak intensity 21.1 cd/lm LEDs/each optic Light colour/type White Required components:



Light distribution files

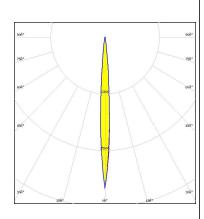


CREE \$

LED XHP35.2 HD
FWHM / FWTM 8.0° / 16.0°
Efficiency 96 %
Peak intensity 34.3 cd/lm
LEDs/each optic 1

LEDs/each optic 1
Light colour/type White

Required components:



Light distribution files

CREE \$

 LED
 XHP50.2

 FWHM / FWTM
 12.0° / 22.0°

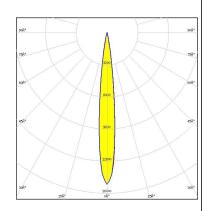
 Efficiency
 95 %

 Peak intensity
 15.1 cd/lm

 LEDs/each optic
 1

Light colour/type White

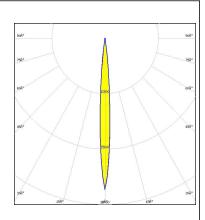
Required components:



Light distribution files

CREE -

LED XM-L2
FWHM / FWTM 8.0° / 16.0°
Efficiency 97 %
Peak intensity 35 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files





 LED
 LUXEON C

 FWHM / FWTM
 4.0° / 10.0°

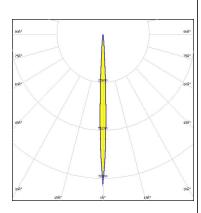
 Efficiency
 94 %

 Peak intensity
 80.9 cd/lm

 LEDs/gach potic
 1

LEDs/each optic 1
Light colour/type White

Required components:



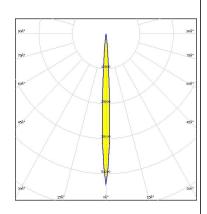
Light distribution files

MATERIAL PROPERTY NEWS

LED LUXEON HL4Z
FWHM / FWTM 6.0° / 12.0°
Efficiency 96 %
Peak intensity 55.5 cd/lm
LEDs/each optic 1

LEDs/each optic 1
Light colour/type White

Required components:



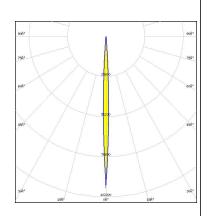
Light distribution files



Required components:

LED LUXEON Rubix
FWHM / FWTM 4.0° / 10.0°
Efficiency 95 %
Peak intensity 96.7 cd/lm
LEDs/each optic 1
Light colour/type White

Light distribution files





DESCRIPTION

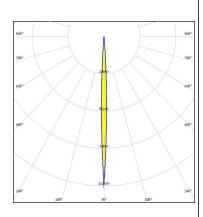
LED LUXEON Rubix
FWHM / FWTM 4.0° / 10.0°

Efficiency 95 %
Peak intensity 104 cd/lm

LEDs/each optic 1

Light colour/type Blue

Required components:



Light distribution files

UMILEDS

LED LUXEON Rubix
FWHM / FWTM 4.0° / 10.0°
Efficiency 95 %
Peak intensity 107.9 cd/lm

LEDs/each optic 1
Light colour/type Red

Required components:

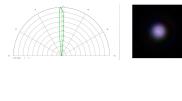
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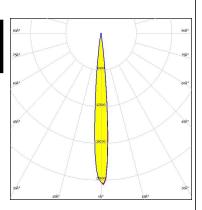
Light distribution files

M LUMILEDS

LED LUXEON Rubix
FWHM / FWTM 10.0° / 17.0°
Efficiency 97 %
Peak intensity 26.6 cd/lm
LEDs/each optic 4
Light colour/type RGBW

Required components:





Light distribution files

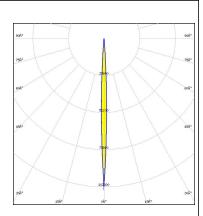




LFD **LUXEON Rubix** FWHM / FWTM 4.0° / 10.0° Efficiency 95 % Peak intensity 104.6 cd/lm

LEDs/each optic 1 Light colour/type Green

Required components:

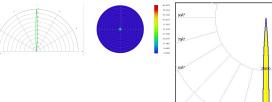


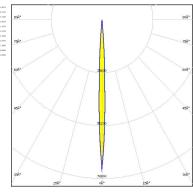
Light distribution files



SST-10-B130 LFD FWHM / FWTM 5.0° / 10.0° Efficiency 95 % LEDs/each optic 1 Light colour/type IR

Required components:





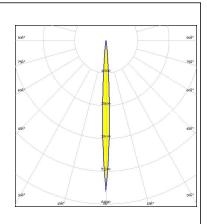
Light distribution files

OSRAM

OSCONIQ P 3737 (2W version)

FWHM / FWTM 5.5° / 12.8° Efficiency 94 % Peak intensity 59.3 cd/lm LEDs/each optic Light colour/type White

Required components:



Light distribution files



OSRAM Opto Semiconductors

LED OSCONIQ P 3737 (3W version)

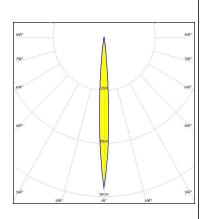
 FWHM / FWTM
 5.5° / 12.8°

 Efficiency
 94 %

 Peak intensity
 59.3 cd/lm

LEDs/each optic 1
Light colour/type White

Required components:



Light distribution files

OSRAM Opto Semiconductore

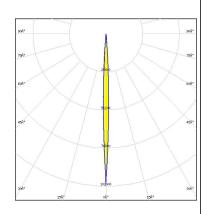
LED OSLON Pure 1414

White

FWHM / FWTM 4.0° / 10.0°
Efficiency 95 %
Peak intensity 102 cd/lm
LEDs/each optic 1

Required components:

Light colour/type



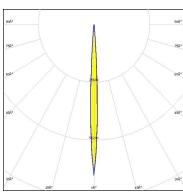
Light distribution files

OSRAM

LED OSLON Square CSSRM2/CSSRM3

FWHM / FWTM 5.4° / 11.0°
Efficiency 94 %
Peak intensity 67 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:





Light distribution files

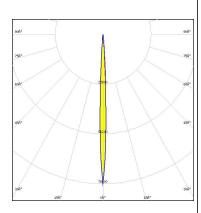


OSRAM Opto Semiconductore

LED OSLON Square Flat

FWHM / FWTM 4.8° / 10.0°
Efficiency 94 %
Peak intensity 78 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:



Light distribution files

OSRAM Opto Semiconductore

Opto Semiconducto

LED OSTAR Projection Compact (KW.CSLNM1.TG)

 FWHM / FWTM
 4.0° / 8.0°

 Efficiency
 94 %

 Peak intensity
 122.8 cd/lm

LEDs/each optic 1
Light colour/type White
Required components:

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Light distribution files

SAMSUNG

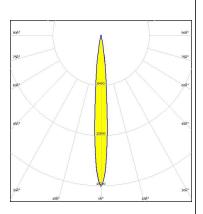
 LED
 LH151B

 FWHM / FWTM
 10.0° / 20.0°

 Efficiency
 97 %

 Peak intensity
 19.4 cd/lm

LEDs/each optic 4
Light colour/type White
Required components:



Light distribution files



SAMSUNG

LED LH351B
FWHM / FWTM 6.0° / 13.0°
Efficiency 96 %
Peak intensity 48 cd/lm
LEDs/each optic 1
Light colour/type White

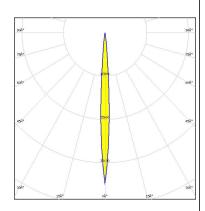
Light distribution files

SAMSUNG

Required components:

LED LH351C
FWHM / FWTM 6.0° / 14.0°
Efficiency 96 %
Peak intensity 44.8 cd/lm
LEDs/each optic 1
Light colour/type White

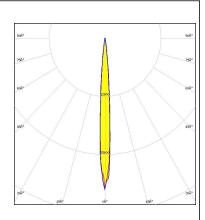
Required components:



Light distribution files

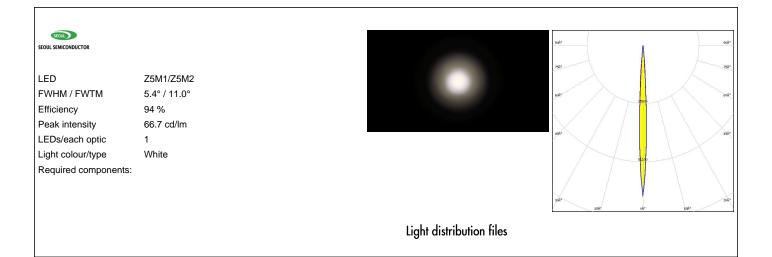
SAMSUNG

LED LH351D
FWHM / FWTM 7.5° / 15.0°
Efficiency 97 %
Peak intensity 34.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

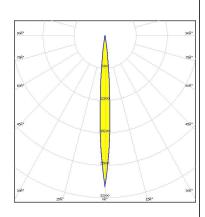






LED Z8Y22P
FWHM / FWTM 7.8°
Efficiency 94 %
Peak intensity 29.9 cd/lm
LEDs/each optic 1
Light colour/type White

Required components:



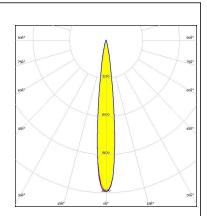
Light distribution files



LED Z8Y50P FWHM / FWTM 12.0° / 24.0°

Efficiency 97 %
Peak intensity 12.7 cd/lm

LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



PRODUCT DATASHEET CRYSTAL-MINE

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:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

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The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

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www.ledil.com/ where_to_buy

Shipping locations

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Distribution Partners

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