

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 🕕



MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
F12985_CRYSTAL-MINE	Single lens	PMMA	clear	
C13478_CRYSTAL-HLD	Holder	PC	white	

ORDERING INFORMATION:

Quantities for one set:

Single lens 1
Holder 1

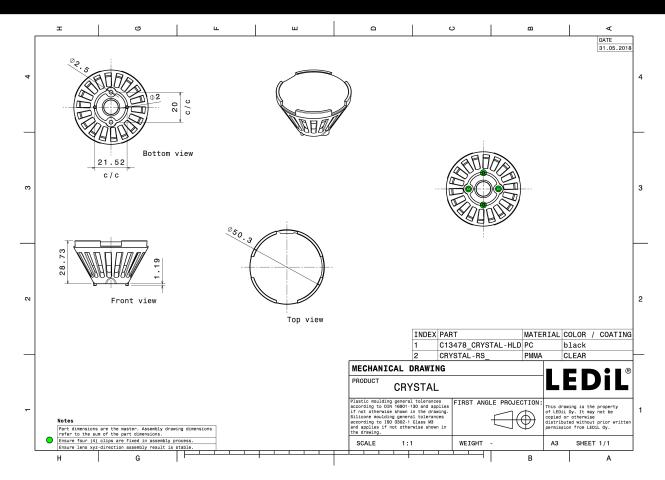


PRODUCT DATASHEET CRYSTAL-MINE

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



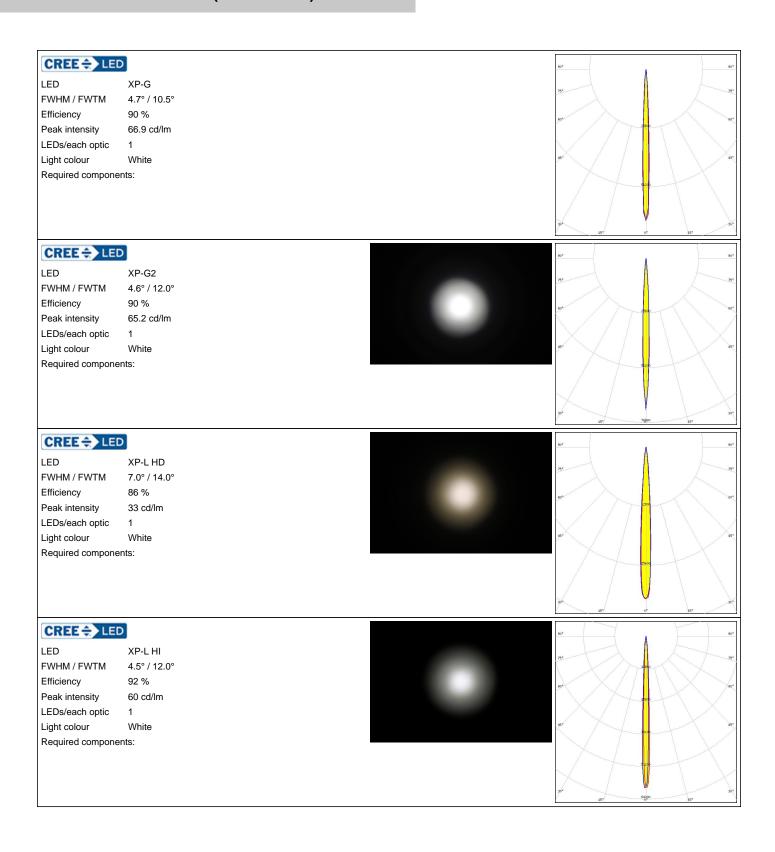
PRODUCT DATASHEET CRYSTAL-MINE



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

Published: 22/03/2022



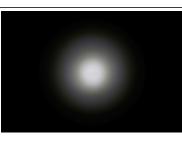


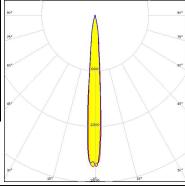


MUMILEDS

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 White





LUMILEDS

Required components:

LED LUXEON A
FWHM / FWTM 4.9° / 13.0°
Efficiency 89 %
Peak intensity 58.2 cd/lm
LEDs/each optic 1

Light colour White Required components:



DESCRIPTION LUMILEDS

LED LUXEON T
FWHM / FWTM 4.9° / 13.0°
Efficiency 89 %
Peak intensity 55.1 cd/lm

LEDs/each optic 1
Light colour White
Required components:



MILEDS

 LED
 LUXEON TX

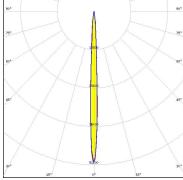
 FWHM / FWTM
 5.0° / 12.6°

 Efficiency
 94 %

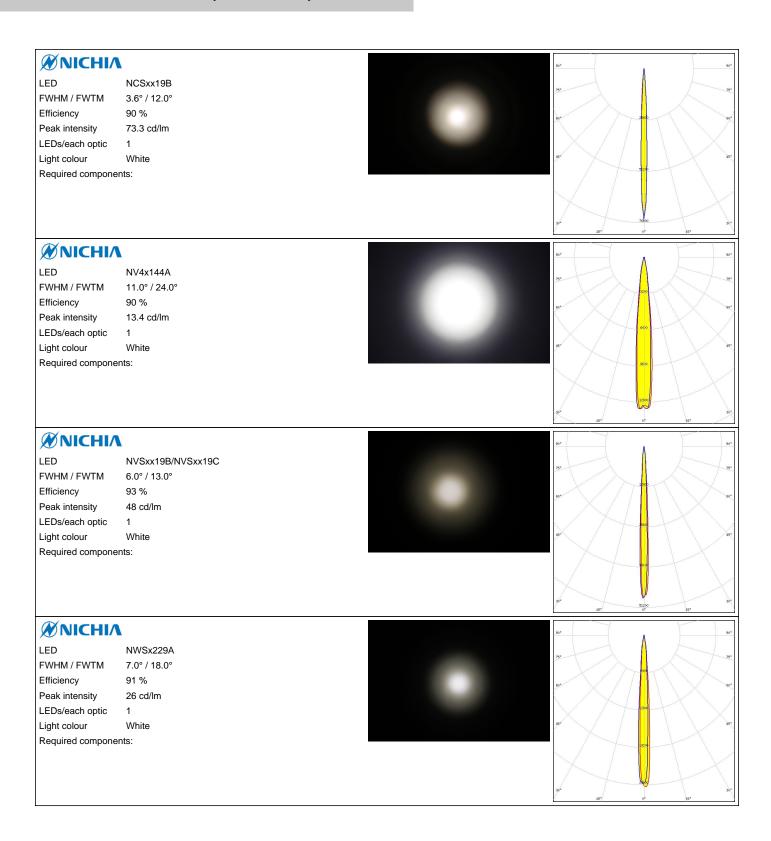
 Peak intensity
 50.6 cd/lm

LEDs/each optic 1
Light colour White
Required components:











SAMSUNG

 $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 5.1° / 13.0° Efficiency 90 % Peak intensity 51.8 cd/lm LEDs/each optic Light colour White



SAMSUNG

Required components:

LED LH351Z FWHM / FWTM 4.2° / 10.0° Efficiency 90 % Peak intensity 71.4 cd/lm LEDs/each optic 1 White Light colour

Required components:

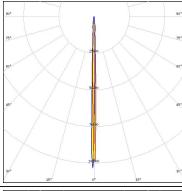


SEOUL

LED nPola $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 2.0° / 7.0° Efficiency 94 % Peak intensity 114 cd/lm LEDs/each optic Light colour White

Required components:





SEOUL SEOUL SEMICONDUCTOR

LED Z5M3 FWHM / FWTM 6.0° / 19.0° Efficiency 93 % Peak intensity 28.6 cd/lm LEDs/each optic White Light colour

Required components:



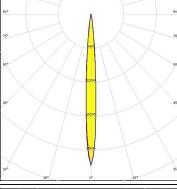
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CREE + LED

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



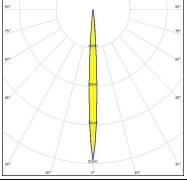


CREE & LED

Required components:

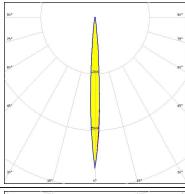
LED XHP35 HI
FWHM / FWTM 6.2° / 13.0°
Efficiency 94 %
Peak intensity 50.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:





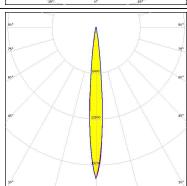
CREE - LED

LED XHP35.2 HD
FWHM / FWTM 8.0° / 16.0°
Efficiency 96 %
Peak intensity 34.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:



CREE - LED

LED XHP35.2 HD
FWHM / FWTM 10.0° / 19.0°
Efficiency 94 %
Peak intensity 21.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:





CREE . LED

 LED
 XHP50.2

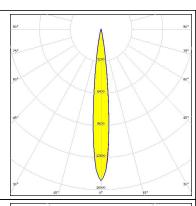
 FWHM / FWTM
 12.0° / 22.0°

 Efficiency
 95 %

 Peak intensity
 15.1 cd/lm

LEDs/each optic 1
Light colour White

Required components:



CREE & LED

LED XM-L2
FWHM / FWTM 8.0° / 16.0°
Efficiency 97 %
Peak intensity 35 cd/lm
LEDs/each optic 1

Light colour White Required components:

LUMILEDS

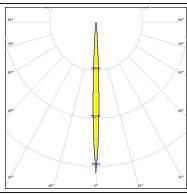
 LED
 LUXEON C

 FWHM / FWTM
 4.0° / 10.0°

 Efficiency
 94 %

 Peak intensity
 80.9 cd/lm

LEDs/each optic 1
Light colour White
Required components:



MILEDS

LED LUXEON Rubix
FWHM / FWTM 4.0° / 10.0°

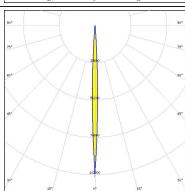
Efficiency 95 %

Peak intensity 104 cd/lm

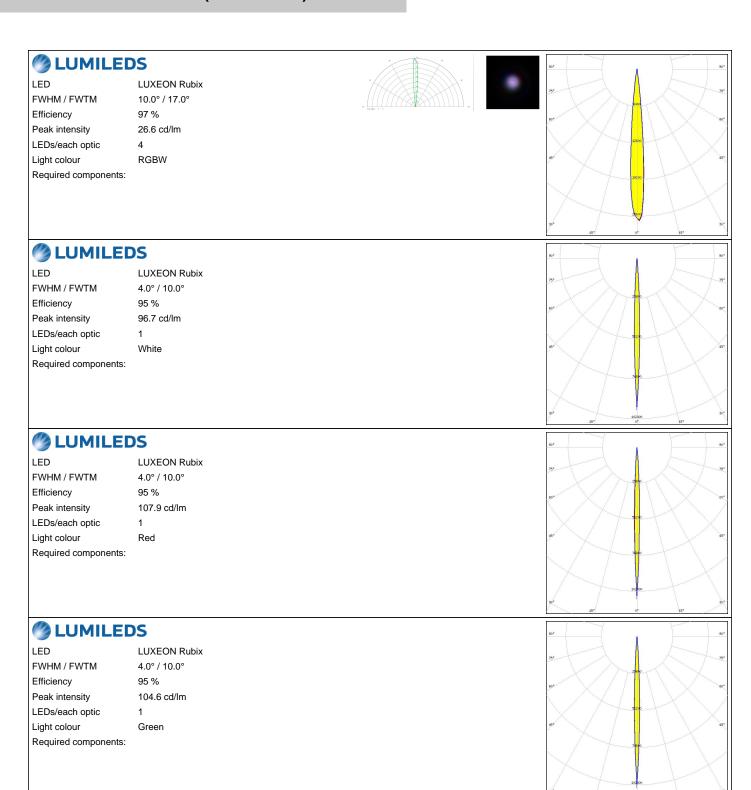
LEDs/each optic 1

Light colour Blue

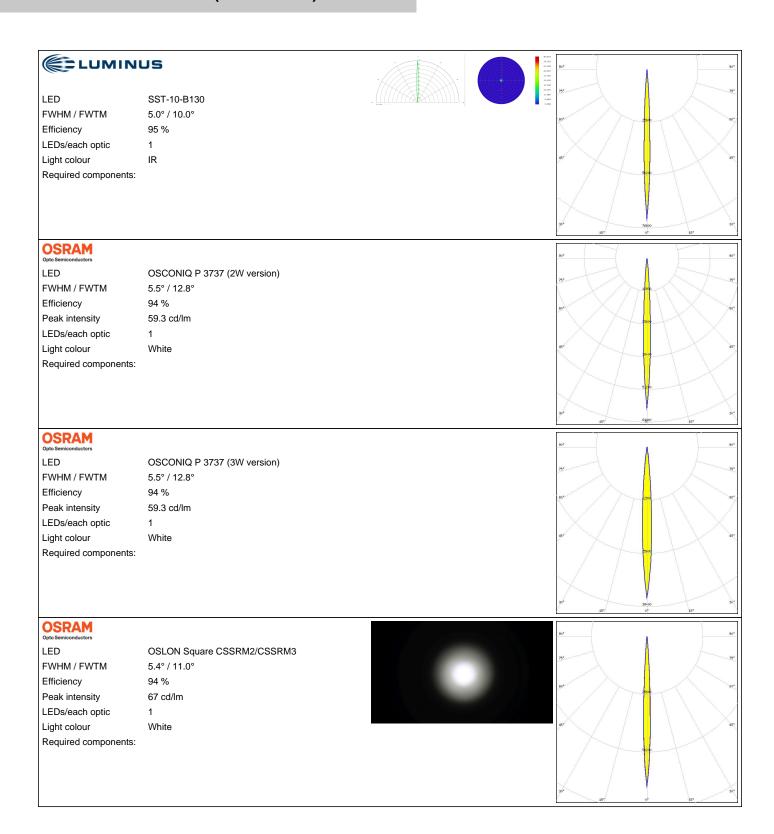
Required components:











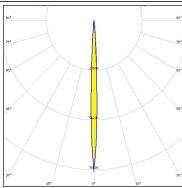


OSRAM

LED OSLON Square Flat

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

Required components:



OSRAM

Opto Semiconductor

LED OSTAR Projection Compact (Kx.CSLNM1.xx)

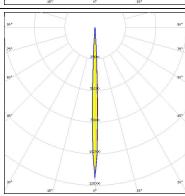
 FWHM / FWTM
 4.0° / 8.0°

 Efficiency
 94 %

 Peak intensity
 122.8 cd/lm

LEDs/each optic 1
Light colour White

Required components:



SAMSUNG

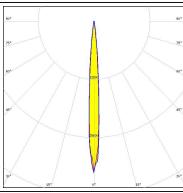
 LED
 LH351D

 FWHM / FWTM
 7.5° / 15.0°

 Efficiency
 97 %

 Peak intensity
 34.2 cd/lm

LEDs/each optic 1
Light colour White
Required components:



SEOUL SEMICONDUCTOR

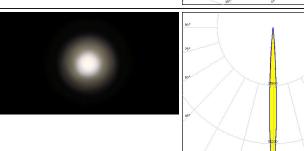
Light colour

LED Z5M1/Z5M2

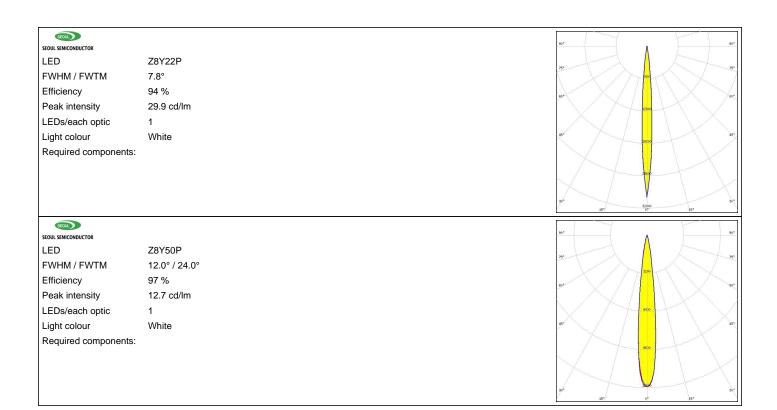
FWHM / FWTM 5.4° / 11.0°
Efficiency 94 %
Peak intensity 66.7 cd/lm
LEDs/each optic 1

White

Required components:









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:

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