# PRODUCT DATASHEET FCN13595\_CRYSTAL-MINE

#### **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:**

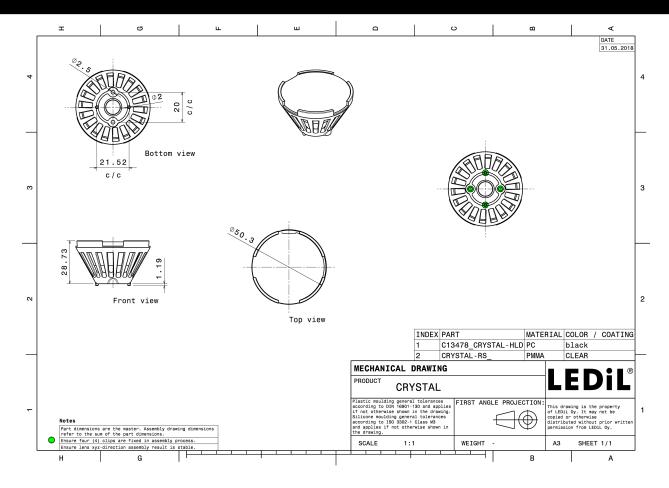
Component	Туре	Material	Colour	Finish
CRYSTAL-MINE	Single lens	PMMA	clear	
CRYSTAL-HLD	Holder	PC	white	

#### **ORDERING INFORMATION:**

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FCN13595_CRYSTAL-MINE	Single lens	288	64	32	0.0
» Box size:					

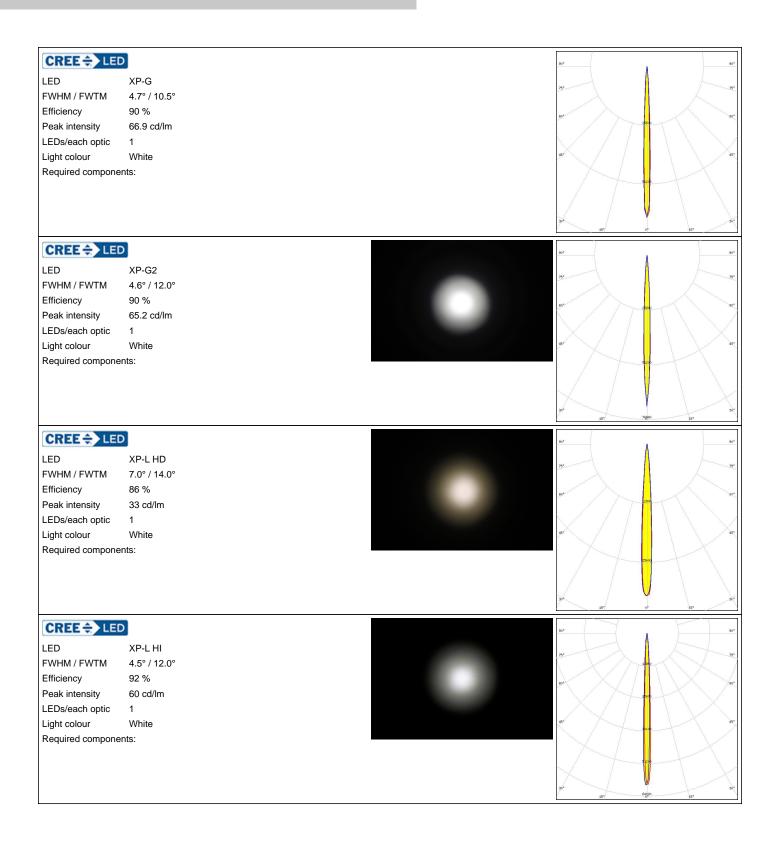


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See also our general installation guide: <a href="www.ledil.com/installation\_guide">www.ledil.com/installation\_guide</a>



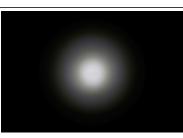


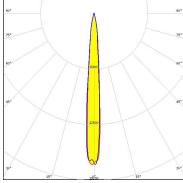




LED LUXEON 5050 Round LES

FWHM / FWTM 9.0° / 23.0°
Efficiency 94 %
Peak intensity 17.5 cd/lm
LEDs/each optic 1
Light colour White





#### **MUMILEDS**

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:



#### **MATERIAL PROPERTY OF THE PROP**

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:



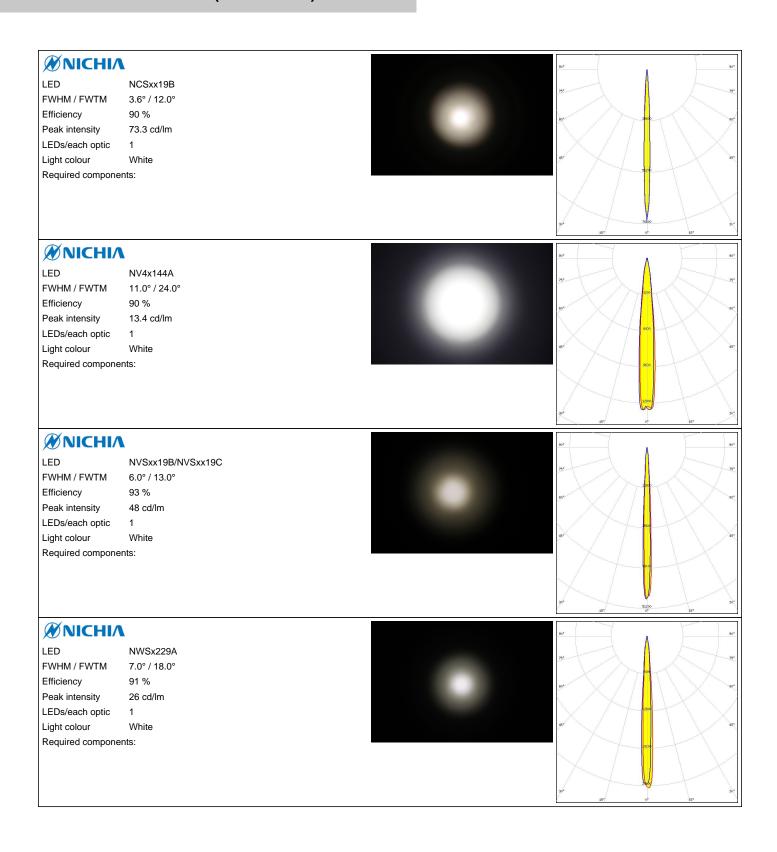
#### **MILEDS**

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**

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



### **SAMSUNG**

Required components:

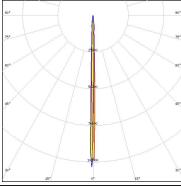
LED LH351Z
FWHM / FWTM 4.2° / 10.0°
Efficiency 90 %
Peak intensity 71.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



## SEOUL SEMICONDUCTOR

LEDnPolaFWHM / FWTM2.0° / 7.0°Efficiency94 %Peak intensity114 cd/lmLEDs/each optic1Light colourWhiteRequired components:

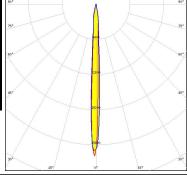




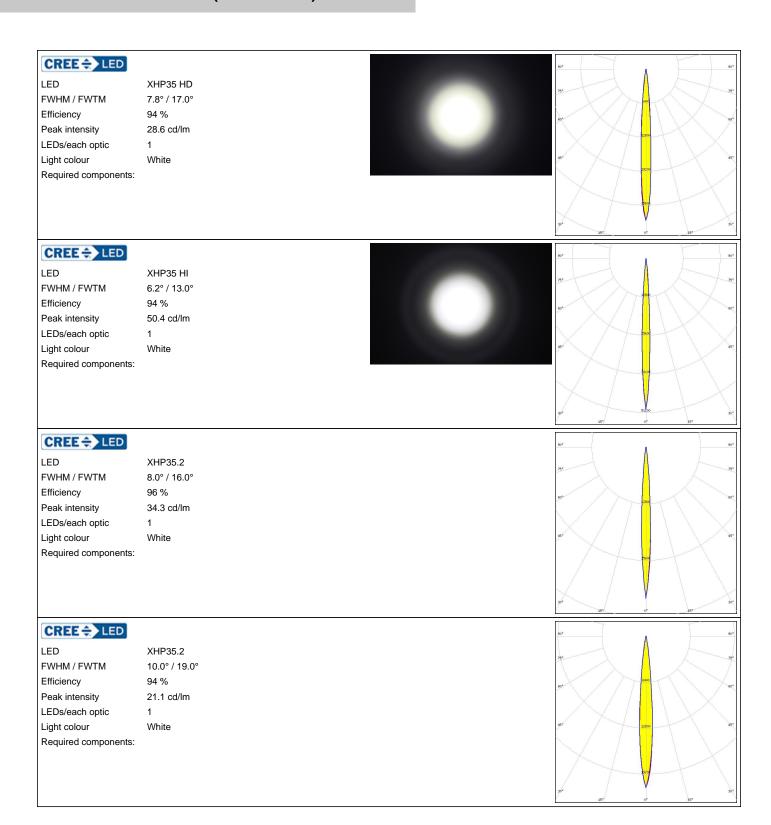
#### SEOUL SEMICONDUCTOR

LED Z5M3
FWHM / FWTM 6.0° / 19.0°
Efficiency 93 %
Peak intensity 28.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:













 LED
 XHP50.2

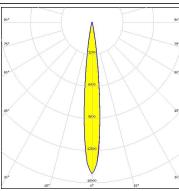
 FWHM / FWTM
 12.0° / 22.0°

 Efficiency
 95 %

 Peak intensity
 15.1 cd/lm

LEDs/each optic 1
Light colour White

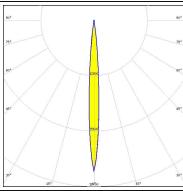
Required components:



#### 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

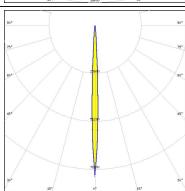
Required components:



#### 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:

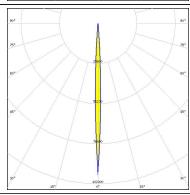


#### **MUMILEDS**

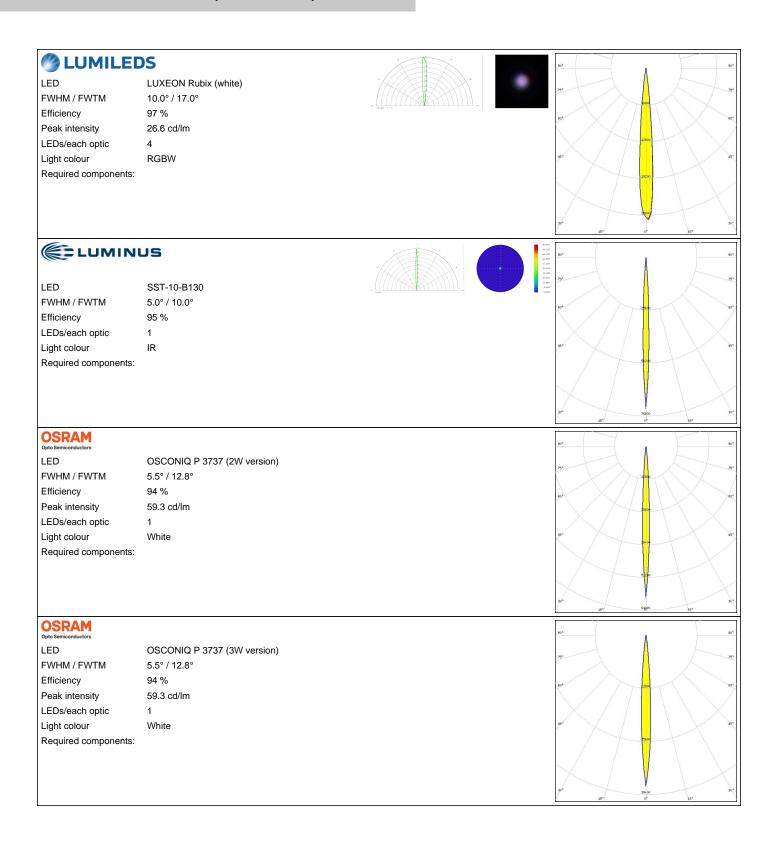
LED LUXEON Rubix (white)

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

Required components:







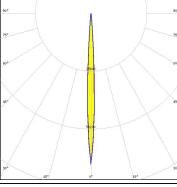


#### **OSRAM**

LED OSLON Square CSSRM2/CSSRM3

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



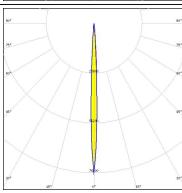


#### **OSRAM**

Required components:

LED OSLON Square Flat

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



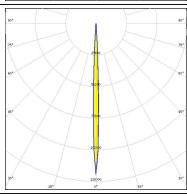
# OSRAM Opto Semiconductors

LED OSTAR Projection Compact (Kx.CSLNM1.xx)

FWHM / FWTM 4.0° / 8.0° Efficiency 94 % Peak intensity 122.8 cd/lm

LEDs/each optic 1 Light colour White

Required components:



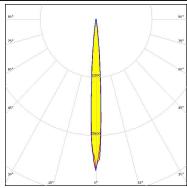
# **SAMSUNG**

LH351D FWHM / FWTM 7.5° / 15.0°

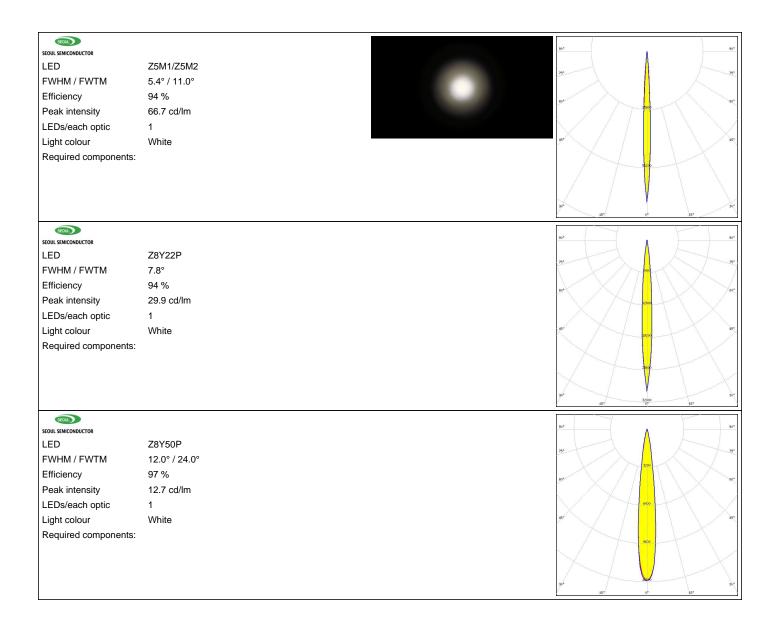
Efficiency 97 % Peak intensity 34.2 cd/lm

LEDs/each optic White Light colour

Required components:









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#### **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.

#### PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

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