

CRYSTAL-RS

~5.1° spot beam. Assembly with holder.

SPECIFICATION:

Dimensions Ø 49.7 mm

Height 28.7 mm

Fastening pin, screw

ROHS compliant yes ①



MATERIALS:

ComponentTypeMaterialColourFinishF12916_CRYSTAL-RSSingle lensPMMAclearC13478_CRYSTAL-HLDHolderPCwhite

ORDERING INFORMATION:

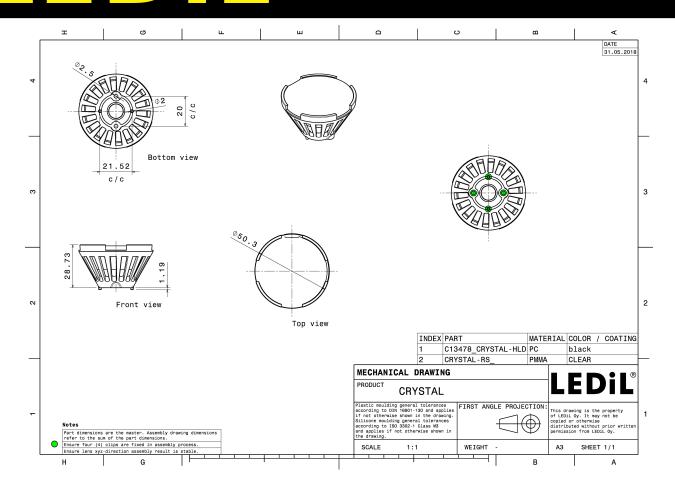
Quantities for one set:

Single lens 1 Holder 1



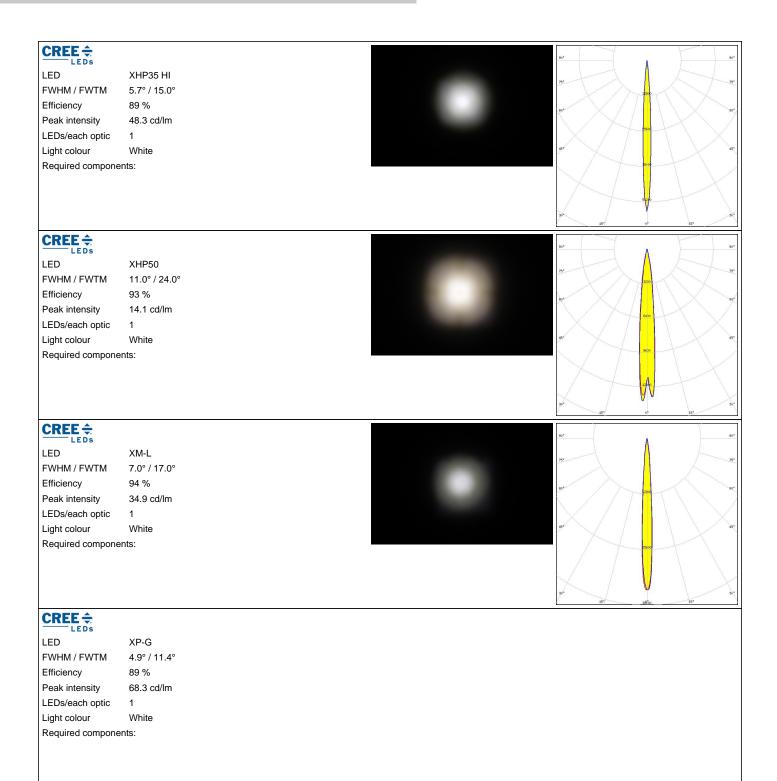
Component		Qty in box	MOQ	MPQ	Box weight (kg)
F12916_CRYSTAL-RS » Box size: 480 x 280 x 300 mm	Single lens	288	64	32	8.6
C13478_CRYSTAL-HLD » Box size: 480 x 280 x 300 mm	Holder	1152	64	32	6.1

PRODUCT DATASHEET CRYSTAL-RS



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



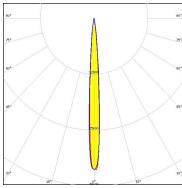




CREE &

Light colour

LED XP-L HD
FWHM / FWTM 7.0° / 15.0°
Efficiency 88 %
Peak intensity 34.7 cd/lm
LEDs/each optic 1



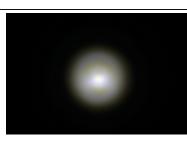
MUMILEDS

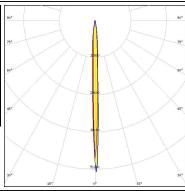
Required components:

LED LUXEON 3030 2D (Round LES)

White

FWHM / FWTM 4.0° / 15.0°
Efficiency 94 %
Peak intensity 52.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



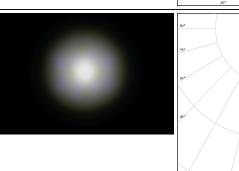


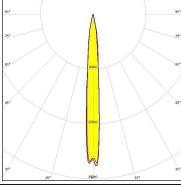
MATERIAL PROPERTY OF THE PROP

LED LUXEON 5050 Round LES

FWHM / FWTM 9.0° / 24.0° Efficiency 94 % Peak intensity 17.8 cd/lm LEDs/each optic 1

Light colour White Required components:





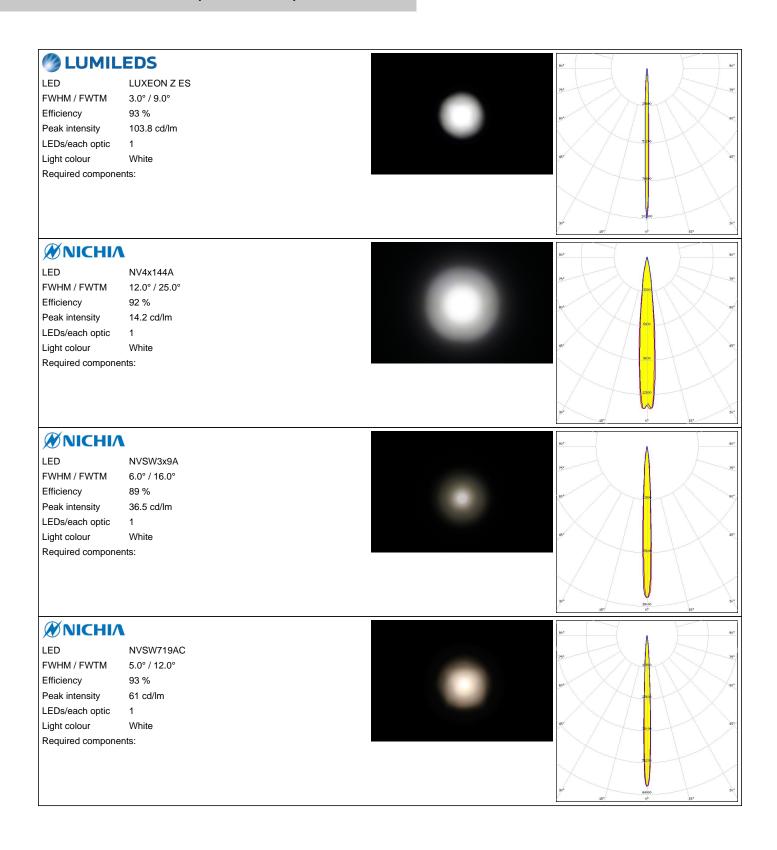
DESCRIPTION LUMILEDS

LED LUXEON A
FWHM / FWTM 5.1° / 14.0°
Efficiency 89 %
Peak intensity 58.9 cd/lm
LEDs/each optic 1

LEDs/each optic 1
Light colour White
Required components:







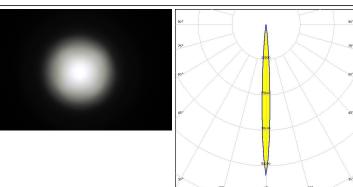


WNICHIA

LED NVSxx19B/NVSxx19C

 $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 5.3° / 17.0° Efficiency 89 % Peak intensity 42.5 cd/lm LEDs/each optic

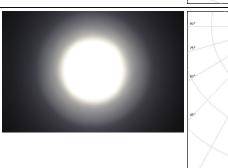
Light colour White Required components:

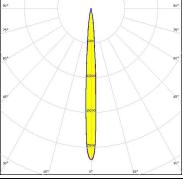


WNICHIA

LED NWSx229A FWHM / FWTM 8.0° / 18.0° Efficiency 92 % Peak intensity 27.9 cd/lm LEDs/each optic

White Light colour Required components:



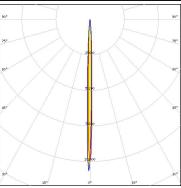


OSRAM Opto Semiconductor

LED OSLON SSL 150 $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 3.0° / 9.0° Efficiency 94 % Peak intensity 108.9 cd/lm

LEDs/each optic Light colour White Required components:





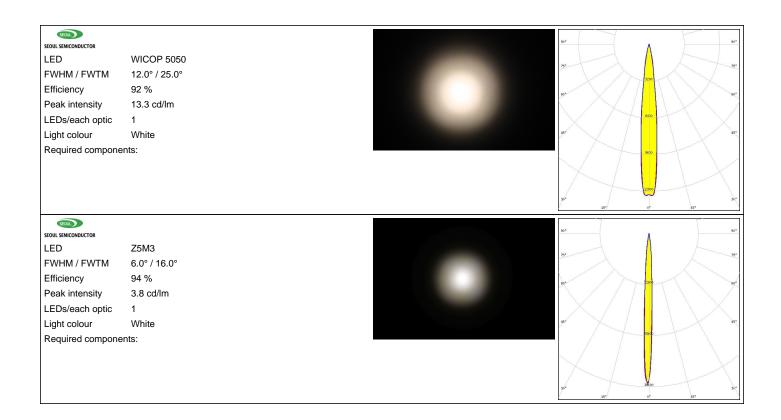
SAMSUNG

FWHM / FWTM 4.4° / 12.0° Efficiency 90 % Peak intensity 77 cd/lm

LEDs/each optic White Light colour Required components:









CREE &

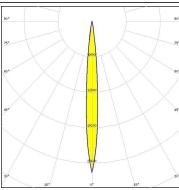
LED XHP50.3 HI FWHM / FWTM 10.0 + 8.0° / 18.0°

Efficiency 97 %
Peak intensity 27.4 cd/lm

Peak intensity 27.4 cd/lr LEDs/each optic 1

Light colour White

Required components:

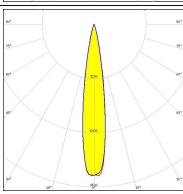


CREE \$

LED XHP70.2 FWHM / FWTM 16.0° / 30.0°

Efficiency 95 %
Peak intensity 9 cd/lm
LEDs/each optic 1
Light colour White

Required components:



CREE -

 LED
 XP-G3

 FWHM / FWTM
 6.0° / 14.0°

 Efficiency
 95 %

Peak intensity 52.3 cd/lm

LEDs/each optic 1
Light colour White
Required components:

25' 25' 0' 15' 30'

CREE \$

 LED
 XP-L HI

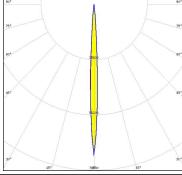
 FWHM / FWTM
 5.6° / 12.0°

 Efficiency
 94 %

 Peak intensity
 70.2 cd/lm

LEDs/each optic 1
Light colour White
Required components:







CREE &

 LED
 XP-P

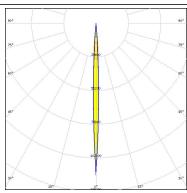
 FWHM / FWTM
 4.0° / 10.0°

 Efficiency
 95 %

 Peak intensity
 115.4 cd/lm

LEDs/each optic 1
Light colour White

Required components:



CREE \$

 LED
 XQ-E HI

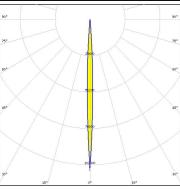
 FWHM / FWTM
 4.5° / 10.0°

 Efficiency
 95 %

 Peak intensity
 106.7 cd/lm

LEDs/each optic 1
Light colour White

Required components:



MILEDS

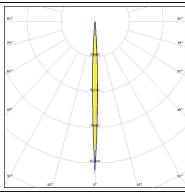
 LED
 LUXEON C

 FWHM / FWTM
 4.0° / 10.0°

 Efficiency
 91 %

 Peak intensity
 109.6 cd/lm

LEDs/each optic 1
Light colour White
Required components:

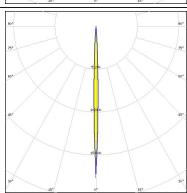


DESCRIPTION LUMILEDS

Required components:

LED LUXEON CZ
FWHM / FWTM 4.0° / 8.0°
Efficiency 93 %
Peak intensity 181 cd/lm
LEDs/each optic 1
Light colour White

White



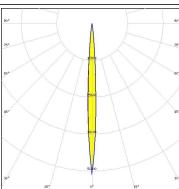




LED LUXEON HL2X
FWHM / FWTM 6.0° / 14.0°
Efficiency 95 %
Peak intensity 52.6 cd/lm
LEDs/each optic 1

Light colour White

Required components:

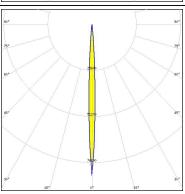


LUMILEDS

LED LUXEON Rebel Plus

FWHM / FWTM 6.0° / 10.0°
Efficiency 95 %
Peak intensity 84.3 cd/lm
LEDs/each optic 1
Light colour White

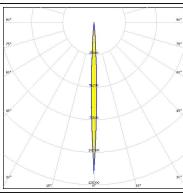
Required components:



LUMILEDS

LED LUXEON Rubix
FWHM / FWTM 4.0° / 10.0°
Efficiency 95 %
Peak intensity 119.4 cd/lm

LEDs/each optic 1
Light colour Red
Required components:



MILEDS

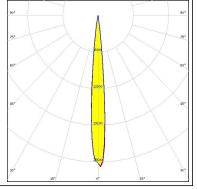
LED LUXEON Rubix
FWHM / FWTM 10.0° / 17.0°

Efficiency 97 %

Peak intensity 26.8 cd/lm

LEDs/each optic 4
Light colour RGBW
Required components:

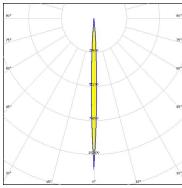








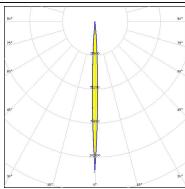
LED LUXEON Rubix
FWHM / FWTM 4.0° / 10.0°
Efficiency 95 %
Peak intensity 114 cd/lm
LEDs/each optic 1
Light colour Blue



LUMILEDS

Required components:

LED LUXEON Rubix
FWHM / FWTM 4.0° / 10.0°
Efficiency 95 %
Peak intensity 114.3 cd/lm
LEDs/each optic 1
Light colour Green

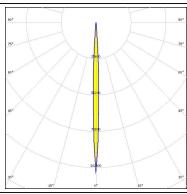


MUMILEDS

Required components:

LED LUXEON Rubix
FWHM / FWTM 4.0° / 10.0°
Efficiency 95 %
Peak intensity 106.8 cd/lm

LEDs/each optic 1
Light colour White
Required components:



DESCRIPTION LUMILEDS

 LED
 LUXEON V

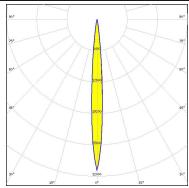
 FWHM / FWTM
 8.0° / 17.0°

 Efficiency
 95 %

 Peak intensity
 30.9 cd/lm

 LEDs/each optic
 1

Light colour White Required components:



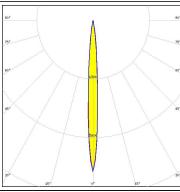




LED SBT-90 $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 8.0° / 18.0° Efficiency 97 % Peak intensity 33.1 cd/lm

LEDs/each optic Light colour White

Required components:

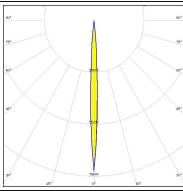


ELUMINUS

LED SFT-40-WCS FWHM / FWTM 6.0° / 12.0° Efficiency 96 % Peak intensity 74.7 cd/lm

LEDs/each optic 1 White Light colour

Required components:



ELUMINUS

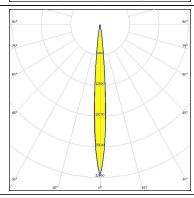
LED SFT-70X-WCS FWHM / FWTM 6.0° / 14.0° Efficiency 97 % Peak intensity 49.1 cd/lm

LEDs/each optic 1 Light colour White Required components:



SST-40 FWHM / FWTM 8.0° / 16.0° 97 % Efficiency Peak intensity 31.7 cd/lm

LEDs/each optic White Light colour Required components:



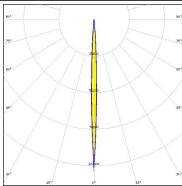


OSRAM

LED Duris S5 (Single chip)

FWHM / FWTM 4.0° / 10.0° 95 % Efficiency Peak intensity 106 cd/lm LEDs/each optic Light colour Red

Required components:



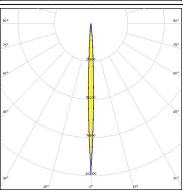
OSRAM

LED Duris S5 (Single chip)

FWHM / FWTM 4.0° / 10.0° Efficiency 95 % Peak intensity 101.9 cd/lm

LEDs/each optic 1 Light colour Green

Required components:



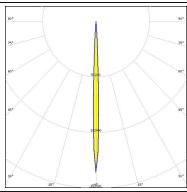
OSRAM Opto Semiconductor

LED OSTAR Projection Compact (KW.CSLNM1.TG)

FWHM / FWTM 4.0° / 8.0° Efficiency 94 % Peak intensity 139.7 cd/lm

LEDs/each optic 1 Light colour White

Required components:

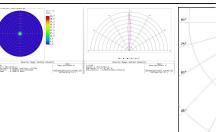


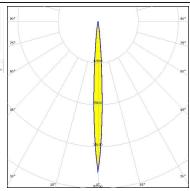
OSRAM

LED SFH 4717AS FWHM / FWTM 6.7° / 14.5° 94 % Efficiency Peak intensity 46.5 cd/lm LEDs/each optic

White

Light colour Required components:

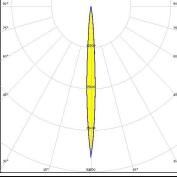






OSRAM

LED SFH 4727AS FWHM / FWTM 6.7° / 14.5° Efficiency 94 % Peak intensity 47 cd/lm LEDs/each optic Light colour White



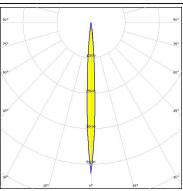
SAMSUNG

Required components:

LED LH351B FWHM / FWTM 6.0° / 14.0° Efficiency 96 % Peak intensity 54.7 cd/lm LEDs/each optic 1

White Light colour

Required components:

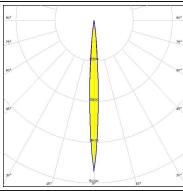


SAMSUNG

LED LH351C FWHM / FWTM 6.0° / 14.0° Efficiency 96 % Peak intensity 47.7 cd/lm

LEDs/each optic 1 Light colour White

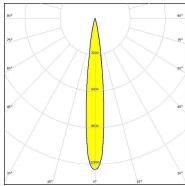
Required components:



SEOUL SEOUL SEMICONDUCTOR

LED Z8Y50P FWHM / FWTM 14.0° / 26.0° Efficiency 97 % Peak intensity 13.3 cd/lm LEDs/each optic White Light colour

Required components:





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:

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.

LEDiL Oy assumes neither warranty, nor guarantee nor any other liability of any kind for the contents and correctness of the provided data. The provided data has been generated with highest diligence but the provided data may in reality not represent the complete possible variation range of all intrinsic parameters. Therefore, in certain cases a deviation from the provided data could occur.

LEDiL Oy reserves the right to undertake technical changes of its products without further notification which could lead to changes in the provided data. LEDiL Oy assumes no liability of any kind for the possible deviation from any provided data or any other damage resulting from the usage of the provided data.

The user agrees to this disclaimer and user agreement with the download or usage of the provided files.

LEDIL Oy

Joensuunkatu 13 FI-24240 SALO Finland

LEDiL Inc.

228 West Page Street Suite D Sycamore IL 60178 USA

Ledil Optics Technology (Shenzhen) Co., Ltd.

405, Block B Casic Motor Building Shenzhen 518057 P.R.CHINA

Local sales and technical support

www.ledil.com/ where_to_buy

Shipping locations

Salo, Finland Hong Kong, China

Distribution Partners

www.ledil.com/ where_to_buy