

CRYSTAL-RS

~5.1° spot beam

SPECIFICATION:

Dimensions	Ø 46.8
Height	27.4 mm
Fastening	snaps
ROHS compliant	yes ⓘ

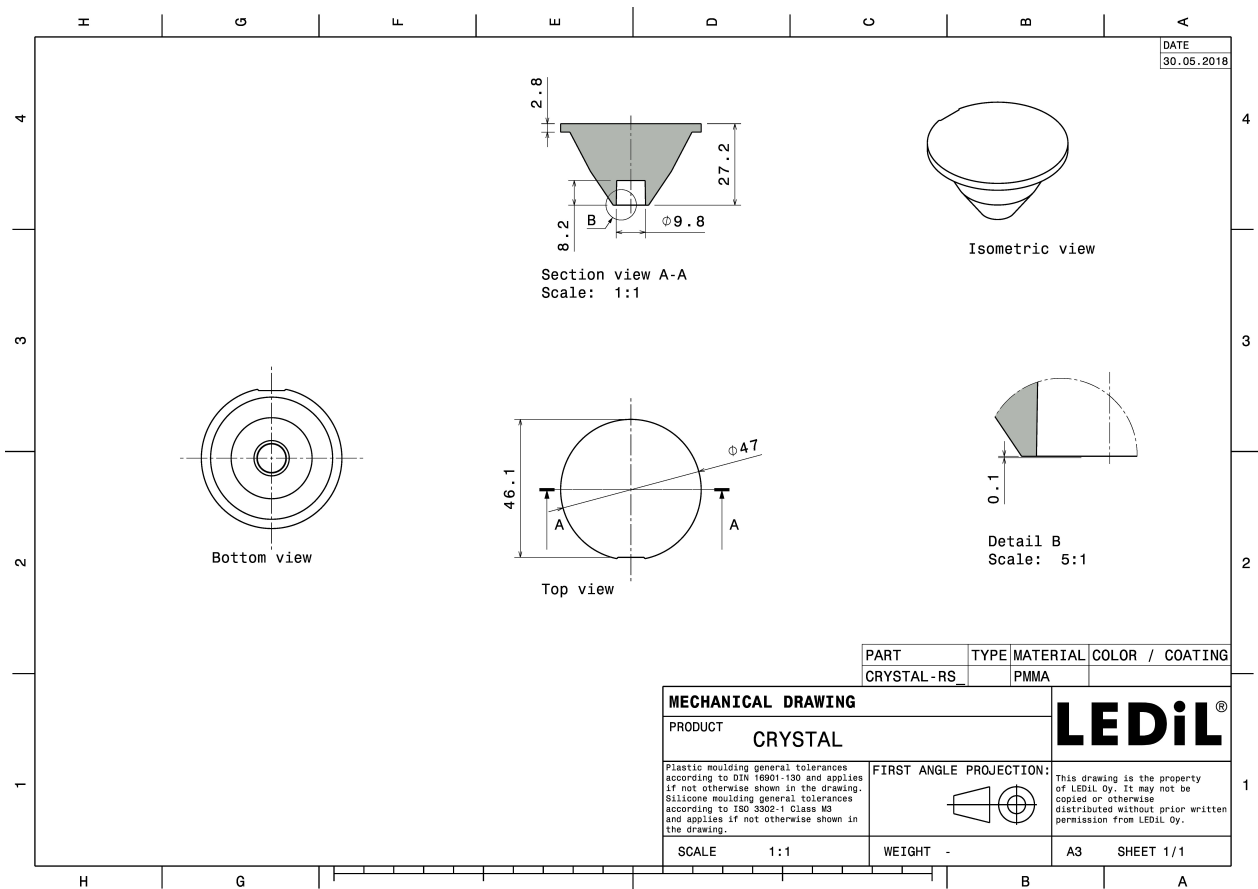
MATERIALS:



Component	Type	Material	Colour	Finish	Length (mm)
CRYSTAL-RS	Single lens	PMMA	clear		

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
F12916_CRYSTAL-RS » Box size: 480 x 280 x 300 mm	288	64	32	8.6

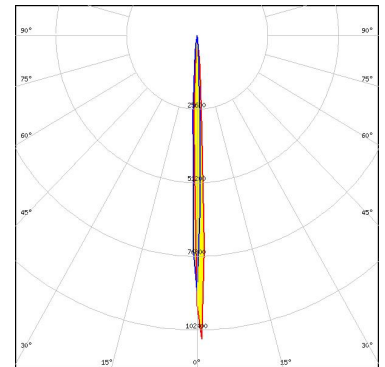


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):



LED XP-E
FWHM / FWTM 3.3° / 8.5°
Efficiency 93 %
Peak intensity 106 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED XP-G
FWHM / FWTM 4.9° / 11.4°
Efficiency 89 %
Peak intensity 68.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files



LED LUXEON A
FWHM / FWTM 5.1° / 14.0°
Efficiency 89 %
Peak intensity 58.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

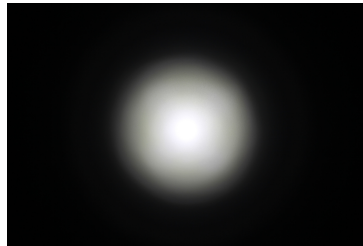


Light distribution files

OPTICAL RESULTS (MEASURED):



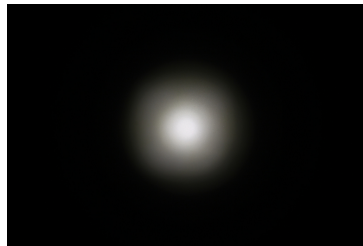
LED NVSxx19B/NVSxx19C
FWHM / FWTM 5.3° / 17.0°
Efficiency 89 %
Peak intensity 42.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



[Light distribution files](#)

SAMSUNG

LED LH351B
FWHM / FWTM 5.3° / 14.0°
Efficiency 90 %
Peak intensity 57 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



[Light distribution files](#)

SAMSUNG

LED LH351Z
FWHM / FWTM 4.4° / 12.0°
Efficiency 90 %
Peak intensity 77 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

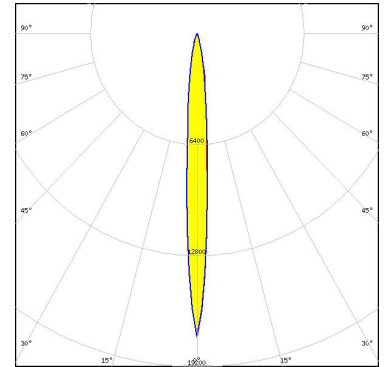


[Light distribution files](#)

OPTICAL RESULTS (SIMULATED):

CITIZEN

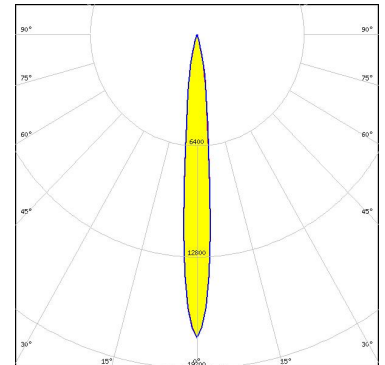
LED CLU7A2/7A3
 FWHM / FWTM 8.0° / 24.0°
 Efficiency 91 %
 Peak intensity 17.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

CITIZEN

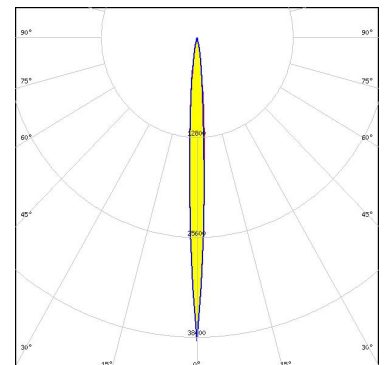
LED CLU7A3 Type-F
 FWHM / FWTM 10.0° / 24.0°
 Efficiency 93 %
 Peak intensity 17.5 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

CITIZEN

LED CLU7L3
 FWHM / FWTM 6.0° / 16.0°
 Efficiency 93 %
 Peak intensity 38.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

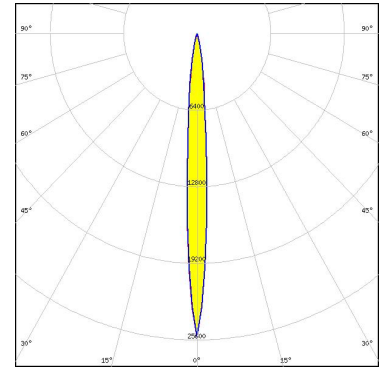


Light distribution files

OPTICAL RESULTS (SIMULATED):

CITIZEN

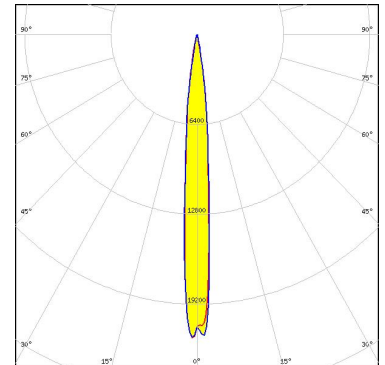
LED	CLU7S3
FWHM / FWTM	8.0° / 20.0°
Efficiency	94 %
Peak intensity	25.3 cd/m
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files



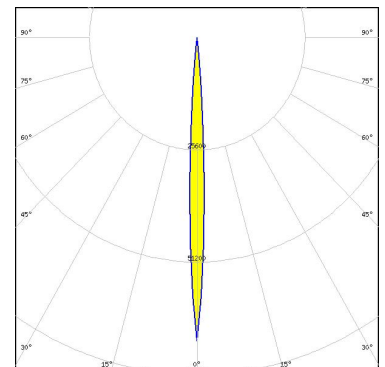
LED	XHP35.2 HD
FWHM / FWTM	9.0° / 20.0°
Efficiency	92 %
Peak intensity	22.6 cd/m
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files



LED	NVSW719AC
FWHM / FWTM	6.0° / 12.0°
Efficiency	96 %
Peak intensity	69.2 cd/m
LEDs/each optic	1
Light colour/type	White
Required components:	

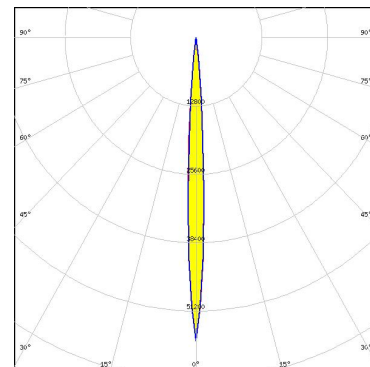


Light distribution files

OPTICAL RESULTS (SIMULATED):

SAMSUNG

LED	LH351B
FWHM / FWTM	6.0° / 14.0°
Efficiency	94 %
Peak intensity	56.8 cd/m
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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.

Due to use of high power COB's with this product, special attention to proper thermal design is highly recommended. LEDiL has no liability for direct, indirect or consecutive damages arising from the LEDiL products being used outside of the recommended temperature range.

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.

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