CRYSTAL-MINE

~4.9° spot beam especially designed for mining headlamps

TECHNICAL SPECIFICATIONS:

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

MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
CRYSTAL-MINE	Single lens	PMMA	clear	

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
F12985_CRYSTAL-MINE	288	64	32	7.1

» Box size: 480 x 280 x 300 mm

DATE
30.05.2018

2.8

27.2

8.2

B Ø9.8

Section view A-A
Scale: 1:1

Isometric view

Bottom view

46.1

Ø47

A A

Top view

0.1

Detail B
Scale: 5:1

PART	TYPE	MATERIAL	COLOR / COATING
CRYSTAL-RS_		PMMA	

MECHANICAL DRAWING

PRODUCT CRYSTAL

LEDiL®

Plastic moulding general tolerances according to DIN 16901-130 and applies if not otherwise shown in the drawing. Silicone moulding general tolerances according to ISO 3302-1 Class M3 and applies if not otherwise shown in the drawing.

FIRST ANGLE PROJECTION:

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SCALE 1:1	WEIGHT -	A3 SHEET 1/1

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

PHOTOMETRIC DATA (MEASURED):

CREE LED

LED	XM-L2
FWHM / FWTM	6.9° / 15.0°
Efficiency	90 %
Peak intensity	35 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

CREE LED

LED	XP-E
FWHM / FWTM	3.0° / 7.9°
Efficiency	92 %
Peak intensity	96 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
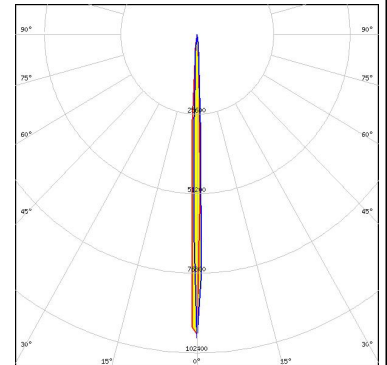
CREE LED

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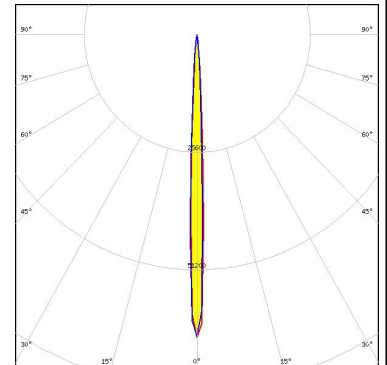
CREE LED

LED	XP-G2
FWHM / FWTM	4.6° / 12.0°
Efficiency	90 %
Peak intensity	65.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

PHOTOMETRIC DATA (MEASURED):

LUMILEDS

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:	

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:	

LUMILEDS

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:	
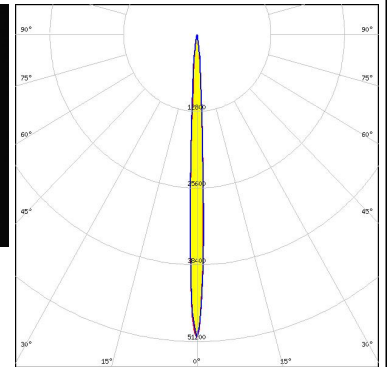
NICHIA

LED	NCSxx19B
FWHM / FWTM	3.6° / 12.0°
Efficiency	90 %
Peak intensity	73.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
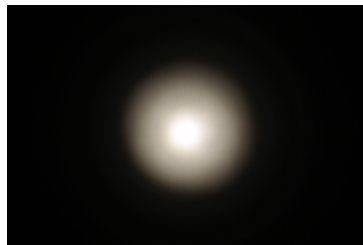
PHOTOMETRIC DATA (MEASURED):

SAMSUNG

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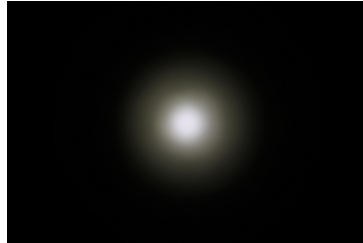
SAMSUNG

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:	
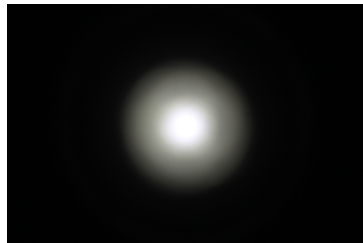
PHOTOMETRIC DATA (SIMULATED):

LUMILEDS

LED	LUXEON CZ
FWHM / FWTM	4.0° / 10.0°
Efficiency	95 %
Peak intensity	98.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	