DALINE-10-W

~40° wide beam

SPECIFICATION:

Dimensions	139.5 x 9.4
Height	5.3 mm
ROHS compliant	yes ⓘ

MATERIALS:

Component	Type	Material	Colour	Finish	Length
C19329_DALINE-10-W	Linear lens	PMMA	clear		139.5
C19620_DALINE-10-SHD2-WHT-MATT	Shade	PC	white	matt	279.5
C19618_DALINE-10-SHD2-MATT	Shade	PC	black	matt	279.5
C19509_DALINE-10-SHD1-WHT-MATT	Shade	PC	white	matt	279.5
C19333_DALINE-10-SHD1-MATT	Shade	PC			279.5

ORDERING INFORMATION:

Quantities for one set:

Linear lens	2
Shade	1

| Component		Qty in box	MOQ	MPQ	Box weight (kg)
C19329_DALINE-10-W » Box size: 480 x 280 x 300 mm	Linear lens	1560	52	52	8.0
C19620_DALINE-10-SHD2-WHT-MATT » Box size: 400 x 300 x 300 mm	Shade	390	26	26	6.0
C19333_DALINE-10-SHD1-MATT » Box size: 400 x 300 x 300 mm	Shade	390	26	26	5.9
C19509_DALINE-10-SHD1-WHT-MATT » Box size: 400 x 300 x 300 mm	Shade	390	26	26	5.9
C19618_DALINE-10-SHD2-MATT » Box size: 400 x 300 x 300 mm	Shade	390	26	26	6.0

Notes
- 🔴 PCB or heatsink level.
- 🟢 LED location

Ensure LED fitting from a product specific 3D model available from www.ledil.com
For more details about installation please see LEDiL Installation Guide on www.ledil.com

Typical LED position

Dimensions: 134.17 / 122.5 / 110.83 / 99.17 / 87.5 / 75.83 / 64.17 / 52.5 / 40.83 / 29.17 / 17.5 / 5.83 / 5.83 / 17.5 / 29.17 / 40.83 / 52.5 / 64.17 / 75.83 / 87.5 / 99.17 / 110.83 / 122.5 / 134.17

Ø1.95 ±0.05 pos.pin
(11.67)
4.67 ±0.2
4.6
5.1
5.8 / 6.3*
See page2
279.5 ±0.35
12.5 ±0.15
0.2 From LES

MECHANICAL DRAWING

PRODUCT	DALINE-10-W

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:

This drawing is the property of LEDiL Oy. It may not be copied or otherwise distributed without prior written permission from LEDiL Oy.

| SCALE | 1:1 | WEIGHT | - | A3 | SHEET 1/1 |

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1. Place lens tap in relative slot in the shade
2. Snap lens end(s) using relative feature in the shade

Position pin
Lens 1
Shade
Lens 2

3. Attach optic carefully and evenly in rail profile, note position pin location on the center.

Ensure there's gap between LED and lens for fluent assembly result.

0.2

Position pin
0.7 / 1.2mm see version table

Notes
- 🔴 PCB or heatsink level.
- 🟢 LED location

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For more details about installation please see LEDiL Installation Guide on www.ledil.com

PART	Qty	Position pin lenght	TYPE	MATERIAL	COLOR / COATING
C19333_DALINE-10-SHD1-MATT	1	0.7mm	Shade	PC	Black / Matt
C19509_DALINE-10-SHD1-WHT-MATT	1	0.7mm	Shade	PC	White / Matt
C19618_DALINE-10-SHD2-MATT	1	1.2mm	Shade	PC	Black / Matt
C19620_DALINE-10-SHD2-WHT-MATT	1	1.2mm	Shade	PC	White / Matt
C19334_DALINE-10-SHD1-WAS-MATT	1	0.7mm	Shade	PC	Black / Matt
C19510_DALINE-10-SHD1-WAS-WHT-MATT	1	0.7mm	Shade	PC	White / Matt
C19619_DALINE-10-SHD2-WAS-MATT	1	1.2mm	Shade	PC	Black / Matt
C19621_DALINE-10-SHD2-WAS-WHT-MATT	1	1.2mm	Shade	PC	White / Matt
C19329_DALINE-10-W	2	-	Lens	PMMA	Clear

MECHANICAL DRAWING

PRODUCT	DALINE-10-W

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 |

DATE
29.05.2023

3.68

10.78

11.7

5.3°

11.7

2.6

(5.1)

0.2

10.5(pcb)

10.7(profile)

Example profile

Adjust dimension (5.1) based on used LED type.
Suggested setting: Lens cone 0.2mm from LES/Led
top surface.

Notes

🔴	PCB or heatsink level.
🟢	LED location

Ensure LED fitting from a product specific 3D model available from www.ledil.com
For more details about installation please see LEDiL Installation Guide on www.ledil.com

MECHANICAL DRAWING

PRODUCT   **DALINE-10-W**

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

OPTICAL RESULTS (MEASURED):

SAMSUNG

LED	LM101B
FWHM / FWTM	34.0° / 60.0°
Efficiency	78 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C19618_DALINE-10-SHD2-MATT

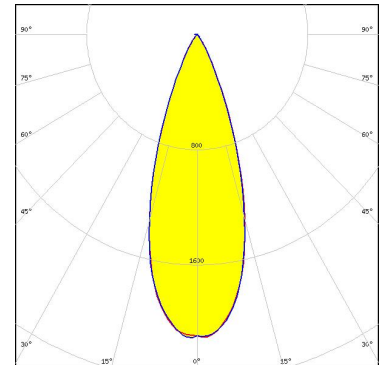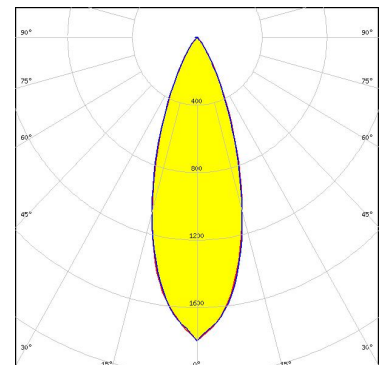Light distribution files
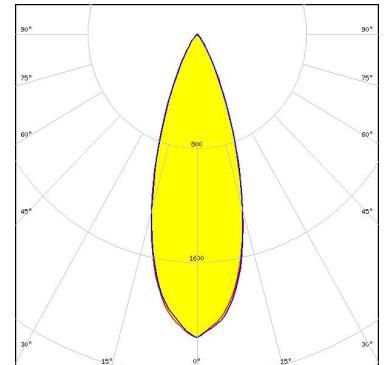
OPTICAL RESULTS (SIMULATED):

CREE LEDs
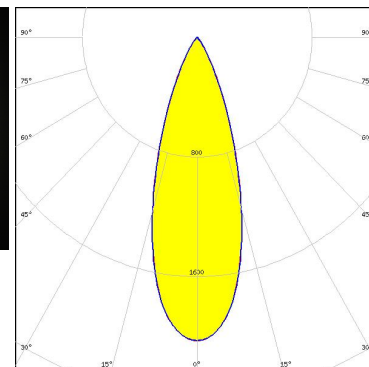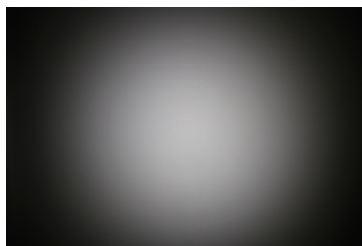
LED	XQ-E HI
FWHM / FWTM	35.0° / 58.0°
Efficiency	80 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C19618_DALINE-10-SHD2-MATT	
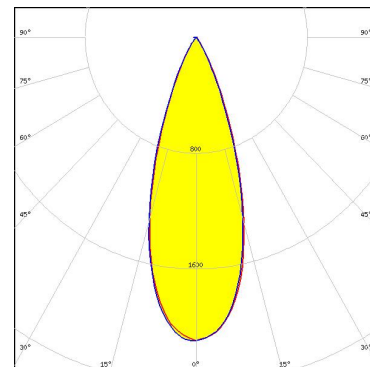
Light distribution files

LUMILEDS

LED	LUXEON CSP HL1
FWHM / FWTM	35.0° / 59.0°
Efficiency	84 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C19333_DALINE-10-SHD1-MATT	
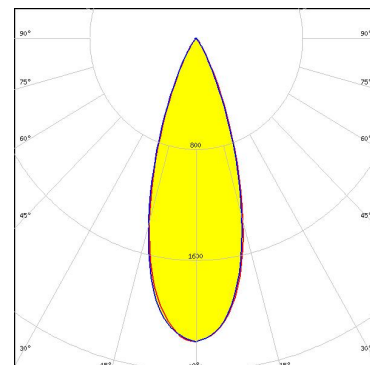
Light distribution files

LUMILEDS

LED	LUXEON Z ES
FWHM / FWTM	35.0° / 60.0°
Efficiency	81 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C19618_DALINE-10-SHD2-MATT	

Light distribution files

OPTICAL RESULTS (SIMULATED):

NICHIA
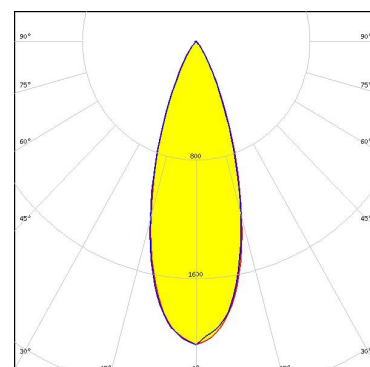
LED	NCSxE17A
FWHM / FWTM	35.0° / 61.0°
Efficiency	79 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
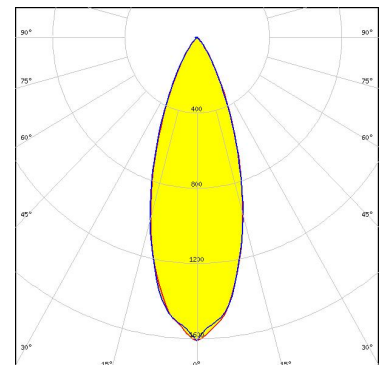   C19333_DALINE-10-SHD1-MATT

Light distribution files

NICHIA
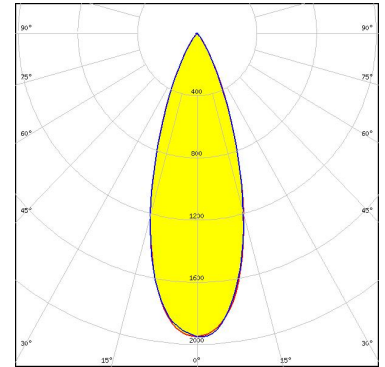
LED	NFSWE11A
FWHM / FWTM	35.0° / 58.0°
Efficiency	80 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
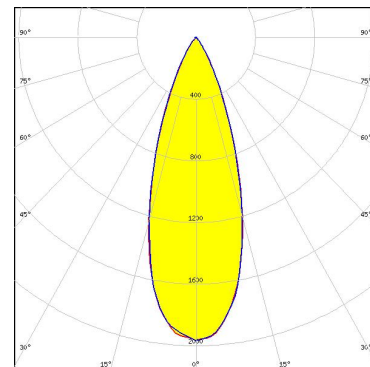   C19333_DALINE-10-SHD1-MATT

Light distribution files

NICHIA

LED	NVSxE21A
FWHM / FWTM	35.0° / 63.0°
Efficiency	75 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
   C19333_DALINE-10-SHD1-MATT

Light distribution files

OPTICAL RESULTS (SIMULATED):

SAMSUNG

LED	LH151B
FWHM / FWTM	35.0° / 61.0°
Efficiency	82 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C19333_DALINE-10-SHD1-MATT
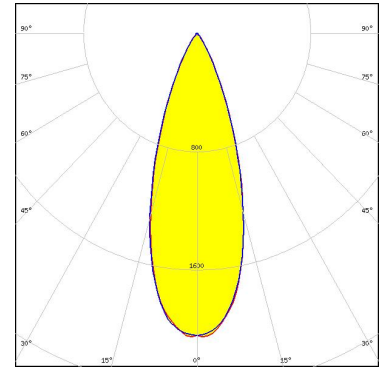
Light distribution files

SAMSUNG

LED	LH151B
FWHM / FWTM	35.0° / 60.0°
Efficiency	85 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C19509_DALINE-10-SHD1-WHT-MATT

Light distribution files

SAMSUNG

LED	LH181B
FWHM / FWTM	36.0° / 66.0°
Efficiency	72 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
C19333_DALINE-10-SHD1-MATT
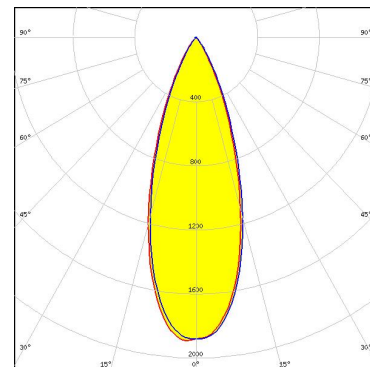
Light distribution files

OPTICAL RESULTS (SIMULATED):

SAMSUNG

LED	LM101B
FWHM / FWTM	35.0° / 62.0°
Efficiency	80 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C19333_DALINE-10-SHD1-MATT	

Light distribution files

SAMSUNG

LED	LM301B
FWHM / FWTM	36.0° / 65.0°
Efficiency	66 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C19618_DALINE-10-SHD2-MATT	
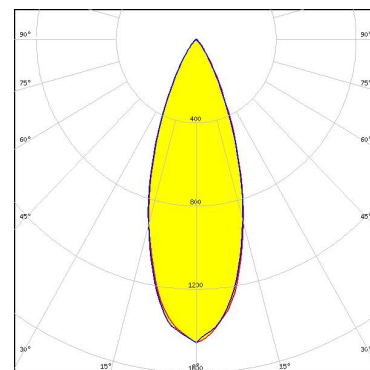
Light distribution files

LEDiL®

LED	CSP1111
FWHM / FWTM	36.0° / 60.0°
Efficiency	82 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C19333_DALINE-10-SHD1-MATT	
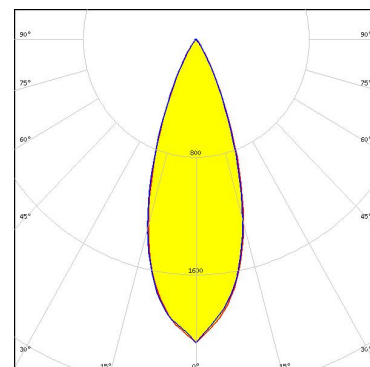
Light distribution files

OPTICAL RESULTS (SIMULATED):

LEDiL®

LED	CSP1919
FWHM / FWTM	35.0° / 64.0°
Efficiency	78 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C19333_DALINE-10-SHD1-MATT

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.

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.

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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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