MOLLY-M

~35° medium beam

TECHNICAL SPECIFICATIONS:

Dimensions	Ø 69.8 mm
Height	23.6 mm
ROHS compliant	yes ⓘ

MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
MOLLY-M	Single lens	PMMA	clear	
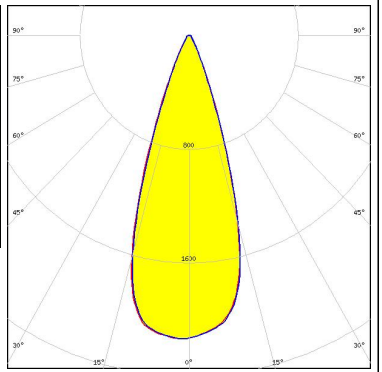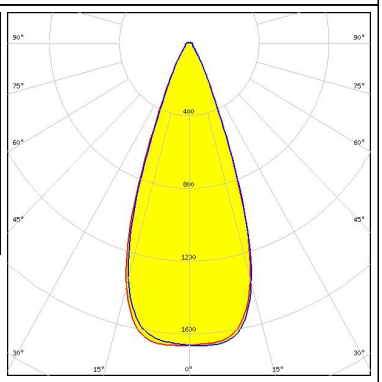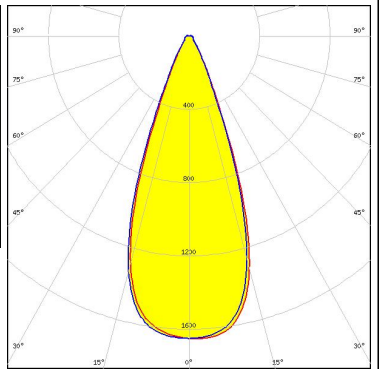
ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C15801_MOLLY-M	198	36	18	9.0

» Box size: 476 x 273 x 292 mm

Bottom view
Scale: 1:1

Direct bayonet fit to standard 3-hook connector designs

Isometric view
Scale: 1:1

45°

Typical recessed mounting

Section view A-A
Scale: 1:1

69.8

18.8

h

49

0.5

Connector top edges 0.5mm overlap with optic

Part no.	h
C15800_MOLLY-S	24.8
C15801_MOLLY-M	23.6
C15802_MOLLY-W	22.1

Top view
Scale: 1:1

A   A

INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	C15800 C15801 C15802	MOLLY	PMMA	Clear

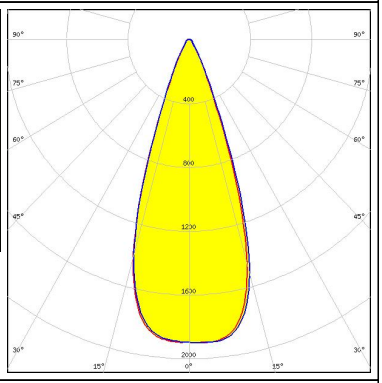Tolerances if not otherwise shown
According to DIN ISO 2768-1
Linear measures:
Up to 30mm class FH, otherwise class MC.
According to DIN ISO 2768-2
Form and position: class K
Control for SPC marked dimensions.

THIRD ANGLE PROJECTION:

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Ledil Oy
Salorankatu 10
FIN 24240 SALO
Finland

DRAWING TITLE
MOLLY

SIZE	PART NUMBER
A3	C15800, C15801, C15802

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

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

PHOTOMETRIC DATA (MEASURED):

bridgelux

LED	Vero SE 13
FWHM / FWTM	36.0° / 54.0°
Efficiency	90 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C16402_CLAMP-VEROSE-13-18	

bridgelux

LED	Vero SE 18
FWHM / FWTM	40.0° / 62.0°
Efficiency	89 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C16402_CLAMP-VEROSE-13-18	

bridgelux

LED	Vesta TW 15mm DP
FWHM / FWTM	38.0° / 58.0°
Efficiency	90 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour	Tunable White
Required components:	
C13658_CLAMP-VERO13-18	
Bender Wirth: 482 Typ L2	

bridgelux

LED	Vesta TW 18mm (31W) DP
FWHM / FWTM	40.0° / 61.0°
Efficiency	88 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	Tunable White
Required components:	
C13584_CLAMP-VERO29	
Bender Wirth: 483 Typ L3	

PHOTOMETRIC DATA (MEASURED):

CITIZEN

LED	CLL03x/CLU03x
FWHM / FWTM	36.0° / 55.0°
Efficiency	89 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
Bender Wirth: 433 Typ L1	
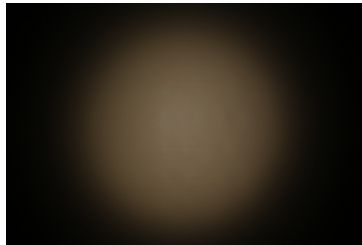
CITIZEN

LED	LCN-C02B (Tunable White)
FWHM / FWTM	35.0° / 53.0°
Efficiency	89 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13658_CLAMP-VERO13-18	
Bender Wirth: 481 Typ L2	
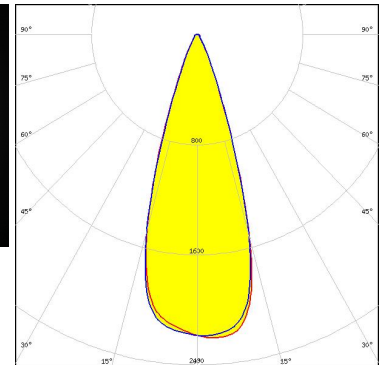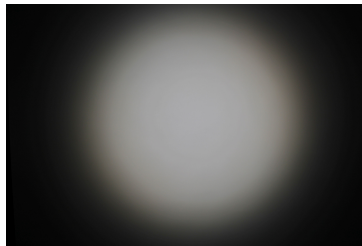
CREE LED

LED	CMA1840
FWHM / FWTM	37.0° / 56.0°
Efficiency	91 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C14123_CLAMP-CXA15-18	
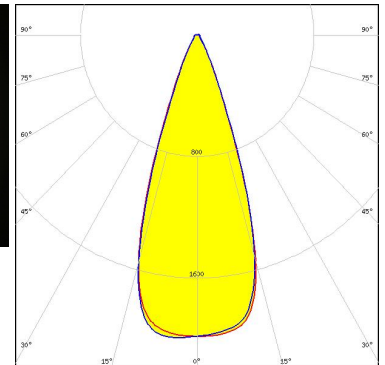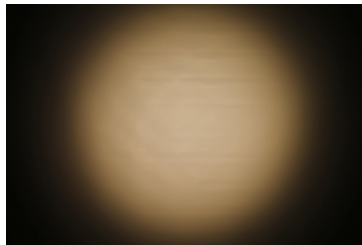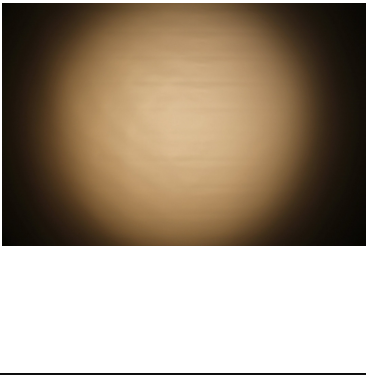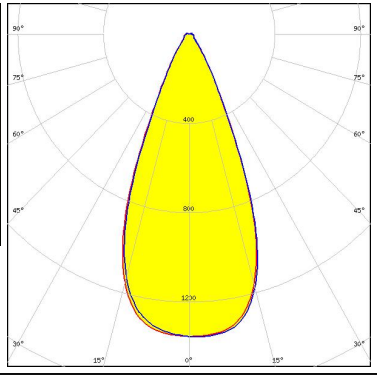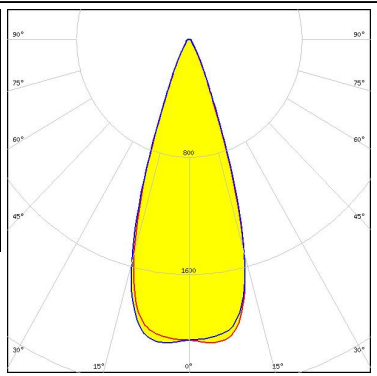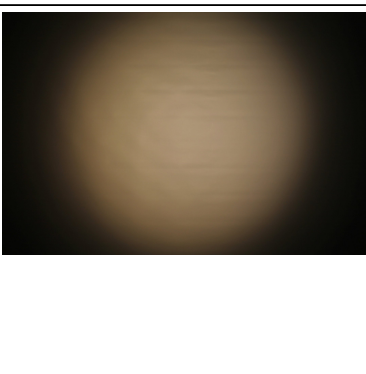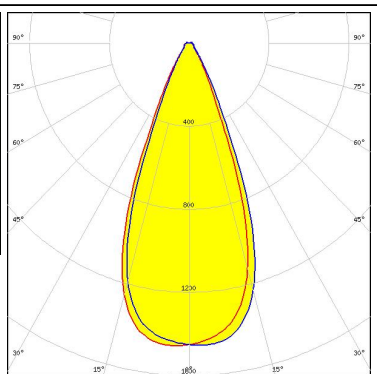
CREE LED

LED	CMA2550
FWHM / FWTM	42.0° / 62.0°
Efficiency	89 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C14036_CLAMP_CXA25-30	

PHOTOMETRIC DATA (MEASURED):

CREE ⇌ LED

LED	CMA3090
FWHM / FWTM	45.0° / 68.0°
Efficiency	88 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C14036_CLAMP_CXA25-30	

CREE ⇌ LED

LED	CMT14xx
FWHM / FWTM	33.0° / 50.0°
Efficiency	90 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13658_CLAMP-VERO13-18	
Bender Wirth: 434 Typ L1	

CREE ⇌ LED

LED	CMT19xx
FWHM / FWTM	36.0° / 55.0°
Efficiency	90 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13658_CLAMP-VERO13-18	
Bender Wirth: 477 Typ L1	

CREE ⇌ LED

LED	CMT28xx
FWHM / FWTM	42.0° / 65.0°
Efficiency	87 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13584_CLAMP-VERO29	
Bender Wirth: 471 Typ L3	

PHOTOMETRIC DATA (MEASURED):

CREE÷LED

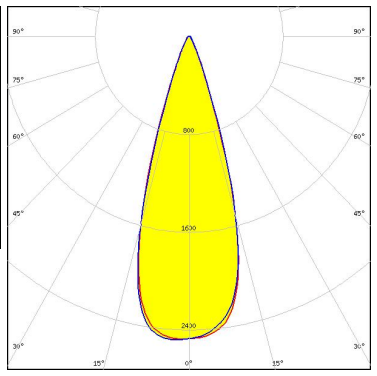|	
LED	CXA/B 15xx
FWHM / FWTM	34.0° / 51.0°
Efficiency	90 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C14123_CLAMP-CXA15-18

LUMILEDS
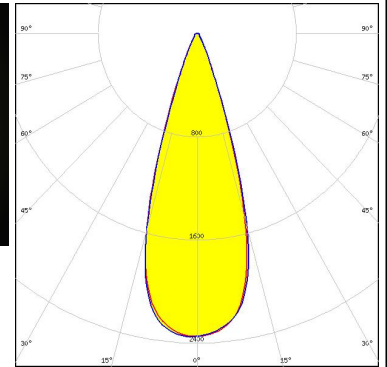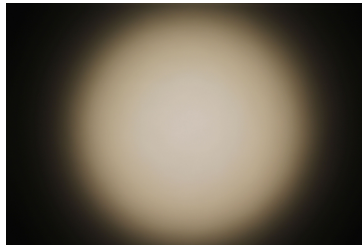
LED	LUXEON CoB 1204HD
FWHM / FWTM	30.0° / 46.0°
Efficiency	89 %
Peak intensity	2.9 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

TE Connectivity: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1

LUMINUS
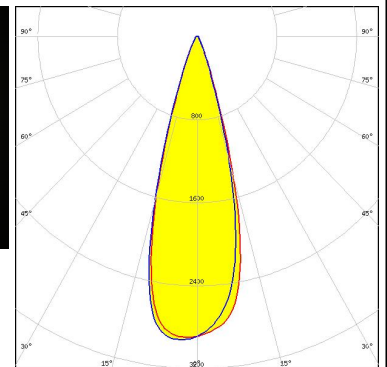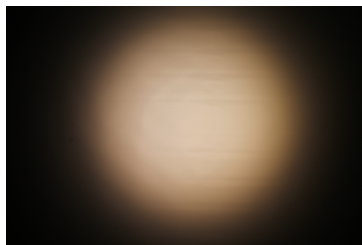
LED	CDM-14 (Dim-To-Warm)
FWHM / FWTM	36.0° / 54.0°
Efficiency	89 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C13658_CLAMP-VERO13-18

Bender Wirth: 491 Typ L2

LUMINUS

LED	CDM-18 (Dim-To-Warm)
FWHM / FWTM	38.0° / 57.0°
Efficiency	89 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C13658_CLAMP-VERO13-18

Bender Wirth: 491 Typ L2
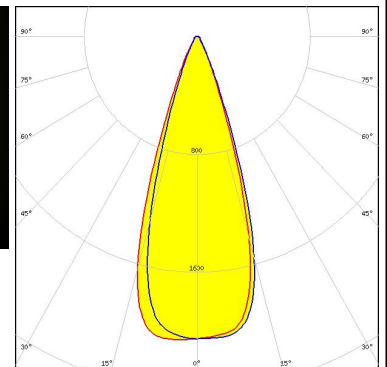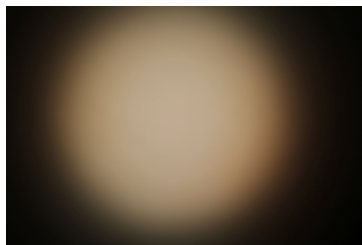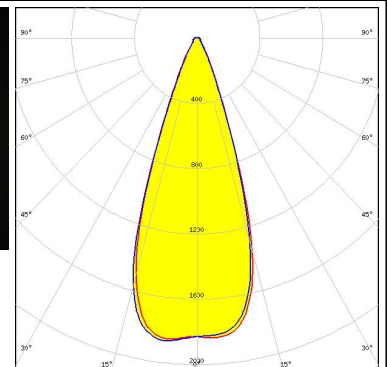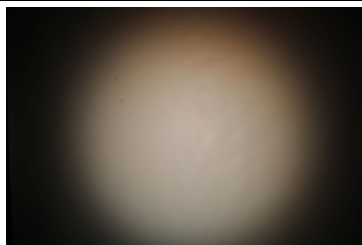
PHOTOMETRIC DATA (MEASURED):

LUMINUS

LED	CDM-9 (Dim-To-Warm)
FWHM / FWTM	33.0° / 49.0°
Efficiency	89 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 490 Typ L1

LUMINUS
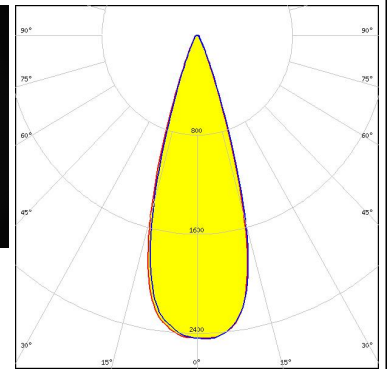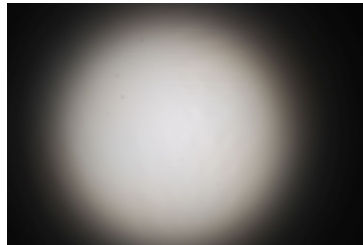
LED	CTM-14 (Tunable White)
FWHM / FWTM	34.0° / 52.0°
Efficiency	88 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour	White

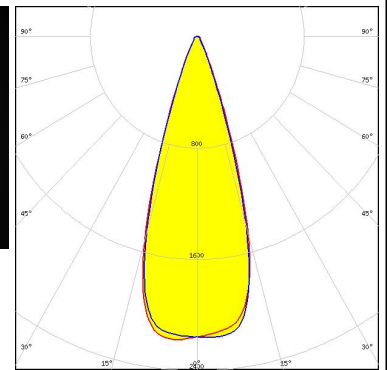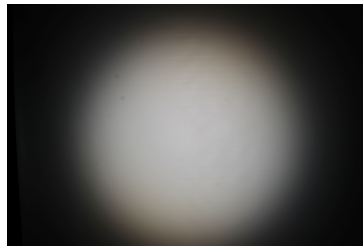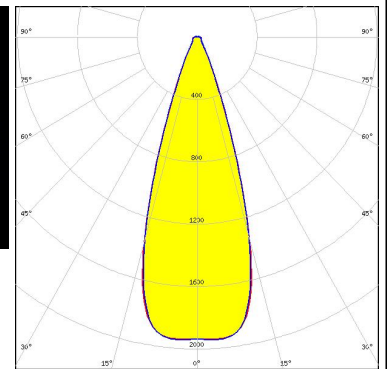Required components:
C13584_CLAMP-VERO29
Bender Wirth: 442 Typ L3

LUMINUS
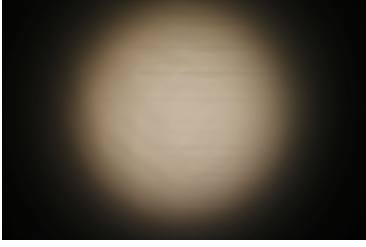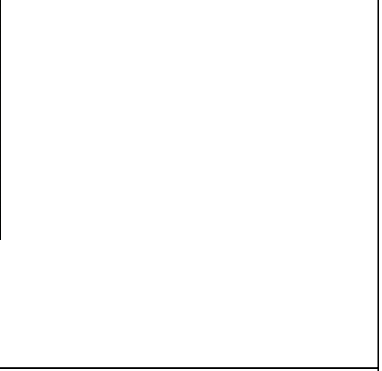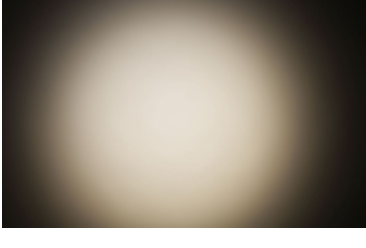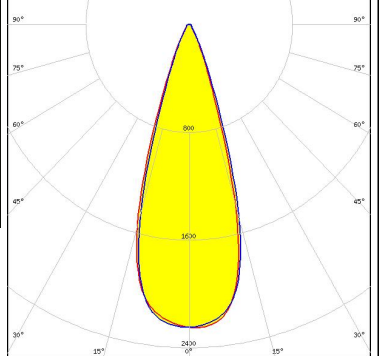
LED	CTM-14 RGBW
FWHM / FWTM	35.0° / 55.0°
Efficiency	88 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	RGBW

Required components:
C13584_CLAMP-VERO29
Bender Wirth: 500 Typ L3-1

LUMINUS

LED	CTM-22 (Tunable White)
FWHM / FWTM	42.0° / 64.0°
Efficiency	87 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13584_CLAMP-VERO29
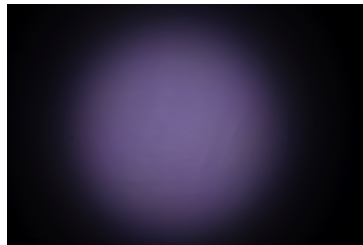Bender Wirth: 494 Typ L3

PHOTOMETRIC DATA (MEASURED):

NICHIA

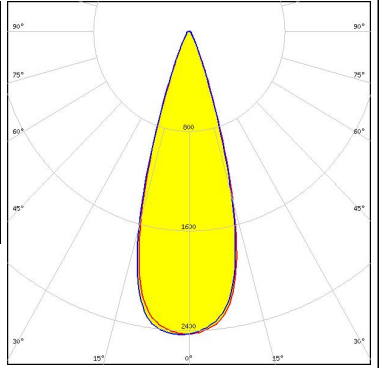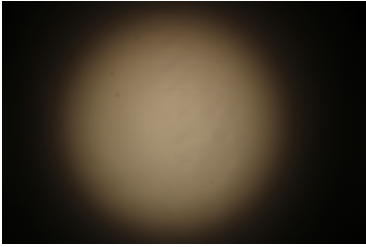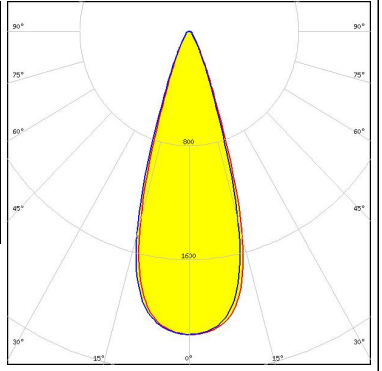|	
LED	NVCWJ024Z-V1MT: COB J-Type Tunable White
FWHM / FWTM	33.0° / 51.0°
Efficiency	89 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13658_CLAMP-VERO13-18	
Bender Wirth: 498 Typ L2	

OSRAM

LED	PrevaLED Core G7 L15 H1
FWHM / FWTM	35.0° / 55.0°
Efficiency	90 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C16685_CLAMP-PRV-A	

PHILIPS

LED	Fortimo SLM L13 CoB
FWHM / FWTM	35.0° / 53.0°
Efficiency	89 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1	

PHILIPS

LED	Fortimo SLM L15 + SLM holder
FWHM / FWTM	34.0° / 53.0°
Efficiency	89 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1	

PHOTOMETRIC DATA (MEASURED):

PHILIPS

LED	Fortimo SLM L15 CoB
FWHM / FWTM	36.0° / 54.0°
Efficiency	88 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1
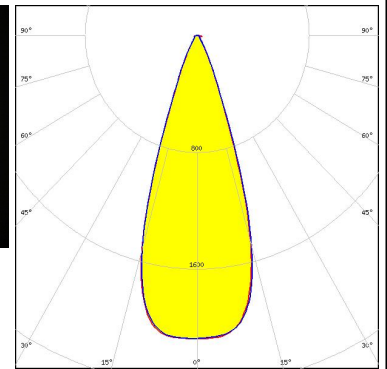
SAMSUNG

LED	LC035T (Tunable white)
FWHM / FWTM	43.0° / 67.0°
Efficiency	88 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13584_CLAMP-VERO29
Bender Wirth: 502 Typ L3
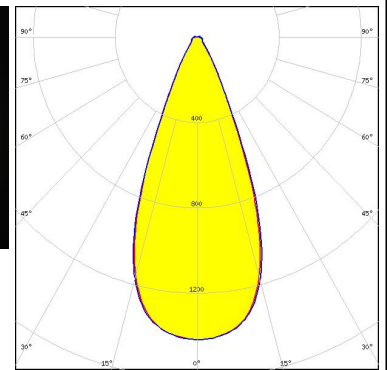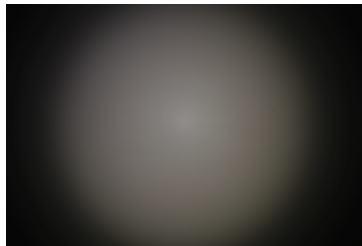
XICATO

LED	XTM - 19mm LES
FWHM / FWTM	39.0° / 60.0°
Efficiency	90 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C16491_XTM-ADAPTER-50-A
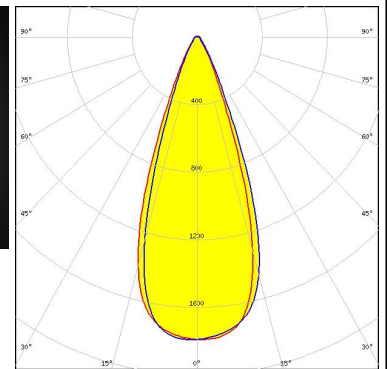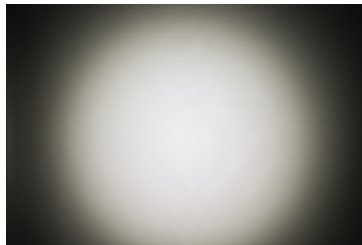
PHOTOMETRIC DATA (SIMULATED):

bridgelux

LED	V9 HD
FWHM / FWTM	32.0° / 44.0°
Efficiency	90 %
Peak intensity	3.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13658_CLAMP-VERO13-18
Bender Wirth: 496 Typ L1

bridgelux

LED	VERO13
FWHM / FWTM	32.0° / 46.0°
Efficiency	91 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C13658_CLAMP-VERO13-18
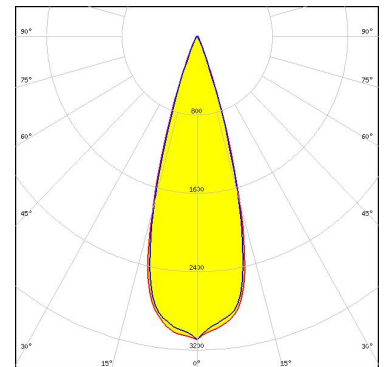
CITIZEN

LED	CLL02x/CLU02x (LES10)
FWHM / FWTM	30.0° / 42.0°
Efficiency	89 %
Peak intensity	3.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
Bender Wirth: 434 Typ L1
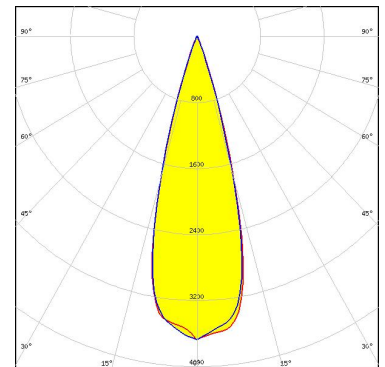
CREE⇌LED

LED	CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM / FWTM	33.0° / 47.0°
Efficiency	90 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
C14123_CLAMP-CXA15-18
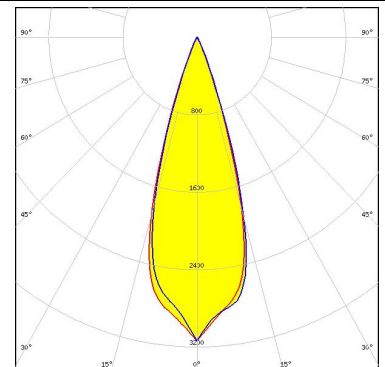
PHOTOMETRIC DATA (SIMULATED):

CREE ⇄ LED

LED	CXA/B 25xx
FWHM / FWTM	36.0° / 50.0°
Efficiency	88 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C14036_CLAMP_CXA25-30	

LUMINUS
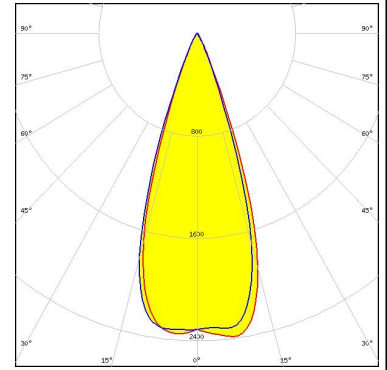
LED	CTM-18 (Tunable White)
FWHM / FWTM	34.0° / 47.0°
Efficiency	80 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13658_CLAMP-VERO13-18	

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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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.

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