AMY-50-ZOOM

Infinitely adjustable beam from 20 to 50 degrees



SPECIFICATION:

Dimensions	Ø 49.9 mm
Height	13.6 mm
Fastening	socket
ROHS compliant	yes

MATERIALS:

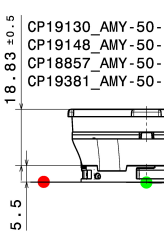
Component	Type	Material	Colour	Finish	Length
AMY-50-ZOOM	Single lens	PMMA	clear	gloss	50.0
AMY-50-ZOOM-SUB	Sublens	PMMA	clear	matt	52.5
AMY-50-HLD2-C	Holder C	PC	black		
AMY-50-HLD2-B	Holder B	PC	black		
AMY-50-HLD2-C-WHT	Holder C	PC	white		
AMY-50-HLD2-B-WHT	Holder B	PC	white		

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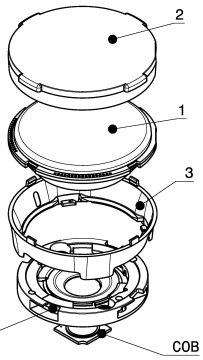
ORDERING INFORMATION:

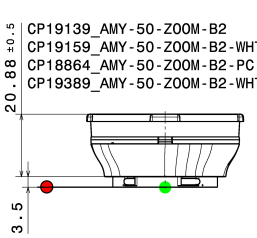
Component	Qty in box	MOQ	MPQ	Box weight (kg)
C18646_AMY-50-ZOOM	420	120	30	7.6
C18647_AMY-50-ZOOM-SUB	420	120	30	4.4
Assembly				
CP19159_AMY-50-ZOOM-B2-WHT	420	120	30	9.0
CP19148_AMY-50-ZOOM-C2-WHT	420	120	30	8.7
CP19139_AMY-50-ZOOM-B2	420	120	30	9.0
CP19130_AMY-50-ZOOM-C2	420	120	30	8.7

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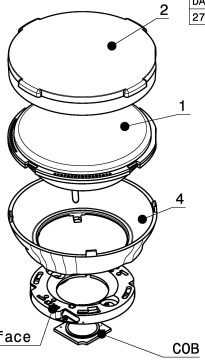


CP19130_AMY-50-ZOOM-C2
CP19148_AMY-50-ZOOM-C2-WHT
CP18857_AMY-50-ZOOM-C2-PC
CP19381_AMY-50-ZOOM-C2-WHT-PC



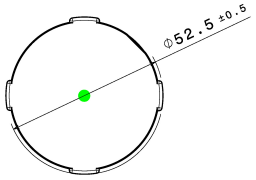


CP19139_AMY-50-ZOOM-B2
CP19159_AMY-50-ZOOM-B2-WHT
CP18864_AMY-50-ZOOM-B2-PC
CP19389_AMY-50-ZOOM-B2-WHT-PC



DATE
27.07.2023

INDEX	PART	TYPE	QTY	MATERIAL	COLOUR/COATING	ASSEMBLY CODES
1	AMY-50-ZOOM	LENS	1			
	C18646_AMY-50-ZOOM			PMMA	CLEAR	
	C18850_AMY-50-ZOOM-PC			PC	CLEAR	
2	C18647_AMY-50-ZOOM-SUB	SUBLENS	1	PMMA	CLEAR	
3	HOLDER C	HOLDER	1			
	C19017_AMY-50-HLD2-C			PC	BLACK	CP19130_AMY-50-ZOOM-C2 CP18857_AMY-50-ZOOM-C2-PC
	C19019_AMY-50-HLD2-C-WHT			PC	WHITE	CP19148_AMY-50-ZOOM-C2-WHT CP19381_AMY-50-ZOOM-C2-WHT-PC
4	HOLDER B					
	C19018_AMY-50-HLD2-B			PC	BLACK	CP19139_AMY-50-ZOOM-B2 CP18864_AMY-50-ZOOM-B2-PC
	C19020_AMY-50-HLD2-B-WHT			PC	WHITE	CP19159_AMY-50-ZOOM-B2-WHT CP19389_AMY-50-ZOOM-B2-WHT-PC



Top view
Scale: 1:1

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
AMY-50-ZOOM

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.

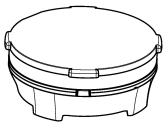
FIRST ANGLE PROJECTION:

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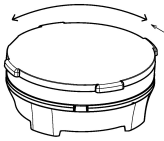
SCALE 1:1 | WEIGHT - | A3 | SHEET 1/4

BEAM ANGLE MARKING

Spot



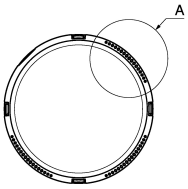
Wide



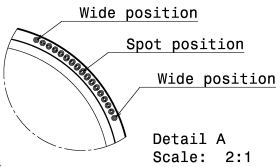
Assembly

SUB-lens rotate freely.
Beam angle changing
smoothly.
spot - wide - spot - wide ...

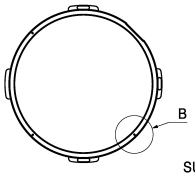
22.5 degrees rotation
angle between
spot and wide



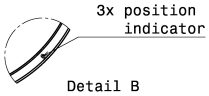
Base lens



Detail A
Scale: 2:1



SUB lens



Detail B
Scale: 2:1

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
AMY-50-ZOOM

LEDiL

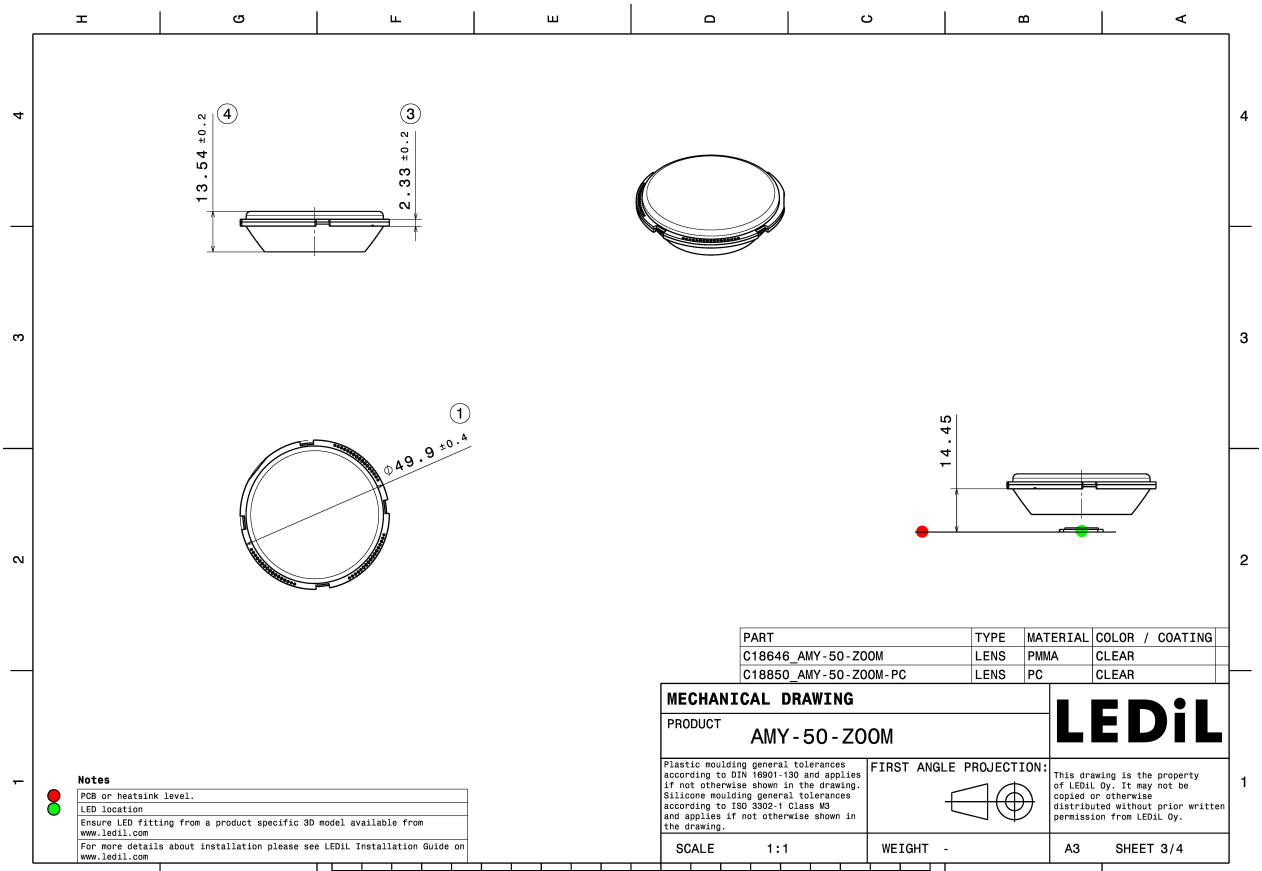
Plastic moulding general tolerances according to DIN 16901-130 and applies if not otherwise shown in the drawing. Silicone moulding general tolerances according to ISO 3302-1 Class M3 and applies if not otherwise shown in the drawing.

FIRST ANGLE PROJECTION:

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SCALE 1:1 | WEIGHT - | A3 | SHEET 2/4

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PART	TYPE	MATERIAL	COLOR / COATING
C18646_AMY-50-ZOOM	LENS	PMMA	CLEAR
C18850_AMY-50-ZOOM-PC	LENS	PC	CLEAR

MECHANICAL DRAWING

PRODUCT AMY-50-ZOOM

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.

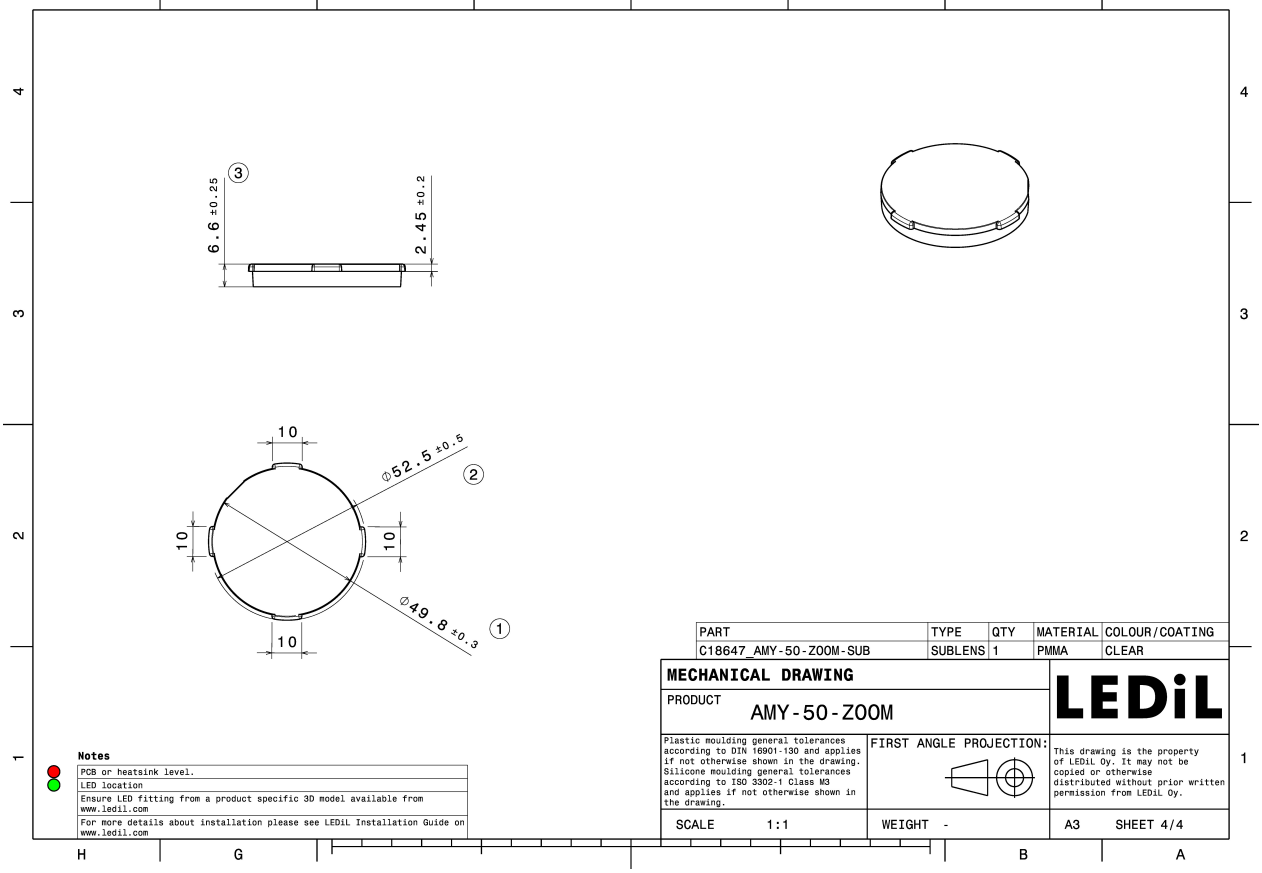
FIRST ANGLE PROJECTION:

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SCALE 1:1 | WEIGHT - | A3 | SHEET 3/4

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



PART	TYPE	QTY	MATERIAL	COLOUR/COATING
C18647_AMY-50-ZOOM-SUB	SUBLENS	1	PMMA	CLEAR

MECHANICAL DRAWING

PRODUCT AMY-50-ZOOM

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 4/4

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

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

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OPTICAL RESULTS (MEASURED):

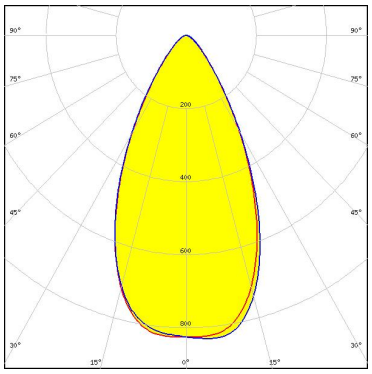
LUMINUS

LED	CTM-14 (Tunable White) Gen2
Ordering code	CP19130_AMY-50-ZOOM-C2
FWHM / FWTM	28.0 + 52.0° / 62.0 + 87.0°
Efficiency	73 %
LEDs/each optic	1
Light colour/type	White

Required components:

- C16142_HEKLA-SOCKET-K
- C18647_AMY-50-ZOOM-SUB
- Bender Wirth: 442 Typ L8



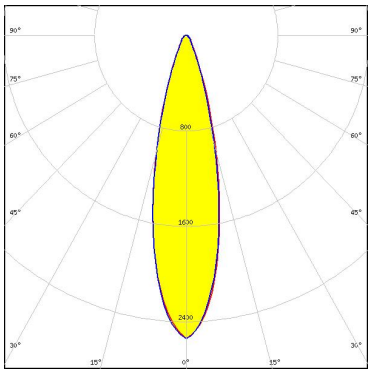


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OPTICAL RESULTS (SIMULATED):

bridgelux

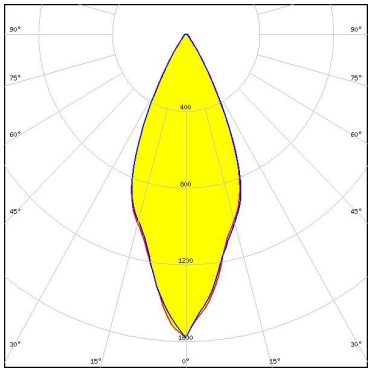
LED	Vesta SE 13mm TW
Ordering code	CP19130_AMY-50-ZOOM-C2
FWHM / FWTM	26.0 + 48.0° / 50.0 + 83.0°
Efficiency	77 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour/type	Tunable White
Required components:	
C16142_HEKLA-SOCKET-K	
C18647_AMY-50-ZOOM-SUB	



Light distribution files

OSRAM
Opto Semiconductors

LED	Duris S8
Ordering code	CP19130_AMY-50-ZOOM-C2
FWHM / FWTM	13.0 + 43.0° / 28.0 + 68.0°
Efficiency	83 %
Peak intensity	9.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
C16142_HEKLA-SOCKET-K	
C18647_AMY-50-ZOOM-SUB	



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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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