ANGELINA-W-B

~50° wide beam compatible with BJB and B+W connectors

SPECIFICATION:

Dimensions	Ø 82.0 mm
Height	31 mm
Fastening	socket
ROHS compliant	yes

MATERIALS:

Component	Type	Material	Colour	Finish	Coating
ANGELINA-W-B	Reflector	PC	metal		HMDS

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
F13661_ANGELINA-W-B » Box size: 480 x 280 x 300 mm	825	110	55	10.6

LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

Detail A
Scale: 2:1

Detail B
Scale: 2:1

INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1		ANGELINA-B	PC	metal

Tolerances if not otherwise shown
According to DIN ISO 2768-1
Linear measures:
Up to 30mm class M, otherwise class C.
According to DIN ISO 2768-2
Form and position: class L

Ledil Oy
Salorankatu 10
FIN 24240 SALO
Finland

THIRD ANGLE PROJECTION:

DRAWING TITLE
ANGELINA-B series Reflector

This drawing is the property of LEDiL Oy. It may not be reproduced, copied or communicated without a written agreement with LEDiL Oy."

SIZE A4
PART NUMBER -

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

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

LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

bridgelux

LED	V15 Gen6
FWHM / FWTM	59.0° / 101.0°
Efficiency	92 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
BJB: 47.319.2224	

Light distribution files

bridgelux

LED	V18 Gen6
FWHM / FWTM	61.0° / 101.0°
Efficiency	92 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
BJB: 47.319.2274	

Light distribution files

bridgelux

LED	V18 Gen7
FWHM / FWTM	60.0° / 102.0°
Efficiency	93 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
BJB: 47.319.2350	

Light distribution files

LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

bridgelux

LED	V22 Gen6
FWHM / FWTM	63.0° / 101.0°
Efficiency	90 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

A.A.G. STUCCHI: 8102-G2

Light distribution files

bridgelux

LED	V22 Gen7
FWHM / FWTM	63.0° / 102.0°
Efficiency	90 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

BJB: 47.319.2030

Light distribution files

CITIZEN

LED	CLL03x/CLU03x
FWHM / FWTM	60.0° / 102.0°
Efficiency	89 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

F13671_ANGE-RZ-LENS

A.A.G. STUCCHI: 8101-G2

Light distribution files

LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

CITIZEN

LED	CLL03x/CLU03x
FWHM / FWTM	49.0° / 98.0°
Efficiency	92 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

BJB: 47.319.2021

Light distribution files

CITIZEN

LED	CLL03x/CLU03x
FWHM / FWTM	55.0° / 100.0°
Efficiency	94 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

A.A.G. STUCCHI: 8101-G2

Light distribution files

CITIZEN

LED	CLL04x/CLU04x
FWHM / FWTM	66.0° / 104.0°
Efficiency	87 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

F13671_ANGE-RZ-LENS

A.A.G. STUCCHI: 8102-G2

Light distribution files

LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

CITIZEN

LED	CLL04x/CLU04x
FWHM / FWTM	62.0° / 102.0°
Efficiency	92 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
A.A.G. STUCCHI: 8102-G2

Light distribution files

CITIZEN

LED	CLU720/721/723
FWHM / FWTM	51.0° / 100.0°
Efficiency	94 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
A.A.G. STUCCHI: 8101-G2

Light distribution files

CITIZEN

LED	CLU720/721/723
FWHM / FWTM	49.0° / 99.0°
Efficiency	93 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
BJB: 47.319.2021

Light distribution files

LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	CXA/B 25xx
FWHM / FWTM	64.0° / 103.0°
Efficiency	88 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
F13671_ANGE-RZ-LENS
BJB: 47.319.2141

Light distribution files

CREE LEDs

LED	CXA/B 25xx
FWHM / FWTM	57.0° / 101.0°
Efficiency	93 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
A.A.G. STUCCHI: 8401-G2

Light distribution files

CREE LEDs

LED	CXA/B 25xx
FWHM / FWTM	61.0° / 101.0°
Efficiency	92 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
BJB: 47.319.2141

Light distribution files

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OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	CXA/B 30xx
FWHM / FWTM	63.0° / 101.0°
Efficiency	91 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
A.A.G. STUCCHI: 8404-G2	

Light distribution files

LUMILEDS

LED	LUXEON CoB 1204/1205
FWHM / FWTM	53.0° / 100.0°
Efficiency	94 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
A.A.G. STUCCHI: 8301-G2	

Light distribution files

LUMILEDS

LED	LUXEON CoB 1208
FWHM / FWTM	55.0° / 100.0°
Efficiency	93 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
A.A.G. STUCCHI: 8301-G2	

Light distribution files

LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

LUMILEDS

LED	LUXEON CoB 1211
FWHM / FWTM	58.0° / 101.0°
Efficiency	92 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

BJB: 47.319.2030

Light distribution files

LUMILEDS

LED	LUXEON CoB 1211
FWHM / FWTM	58.0° / 100.0°
Efficiency	92 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

A.A.G. STUCCHI: 8102-G2

Light distribution files

LUMILEDS

LED	LUXEON CoB 1213/1216/1812
FWHM / FWTM	67.0° / 104.0°
Efficiency	87 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

F13671_ANGE-RZ-LENS

BJB: 47.319.2030

Light distribution files

LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

LUMILEDS

LED	LUXEON CoB 1213/1216/1812
FWHM / FWTM	65.0° / 102.0°
Efficiency	91 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
BJB: 47.319.2030	

Light distribution files

LUMILEDS

LED	LUXEON K12
FWHM / FWTM	64.0° / 104.0°
Efficiency	89 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
F13671_ANGE-RZ-LENS	
BJB: 47.319.2070	

Light distribution files

LUMILEDS

LED	LUXEON K16
FWHM / FWTM	61.0°
Efficiency	%
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
BJB: 47.319.2070	

Light distribution files

LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

LUMILEDS

LED	LUXEON K16
FWHM / FWTM	65.0° / 104.0°
Efficiency	89 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
F13671_ANGE-RZ-LENS
BJB: 47.319.2070

Light distribution files

LUMINUS

LED	CxM-14 (19x19)
FWHM / FWTM	51.0° / 99.0°
Efficiency	93 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
BJB: 47.319.2021

Light distribution files

LUMINUS

LED	CxM-22 (28x28)
FWHM / FWTM	63.0° / 102.0°
Efficiency	92 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
BJB: 47.319.2030

Light distribution files

LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

LED	Soleriq S13
FWHM / FWTM	52.0° / 100.0°
Efficiency	94 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
A.A.G. STUCCHI: 8502-G2

Light distribution files

OSRAM
Opto Semiconductors

LED	Soleriq S13 19x19
FWHM / FWTM	53.0° / 100.0°
Efficiency	93 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
BJB: 47.319.2021

Light distribution files

OSRAM
Opto Semiconductors

LED	Soleriq S19
FWHM / FWTM	55.0° / 100.0°
Efficiency	93 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
BJB: 47.319.2170

Light distribution files

LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

LED	Soleriq S19
FWHM / FWTM	55.0° / 100.0°
Efficiency	93 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
A.A.G. STUCCHI: 8503-G2

Light distribution files

PHILIPS

LED	Fortimo SLM L19 CoB
FWHM / FWTM	58.0° / 100.0°
Efficiency	93 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
BJB: 47.319.2030

Light distribution files

PHILIPS

LED	Fortimo SLM L19 CoB
FWHM / FWTM	60.0° / 102.0°
Efficiency	88 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
F13671_ANGE-RZ-LENS
BJB: 47.319.2030

Light distribution files

LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

PHILIPS

LED	Fortimo SLM L23 CoB
FWHM / FWTM	62.0° / 102.0°
Efficiency	88 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
F13671_ANGE-RZ-LENS
BJB: 47.319.2030

Light distribution files

PHILIPS

LED	Fortimo SLM L23 CoB
FWHM / FWTM	60.0° / 101.0°
Efficiency	93 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
BJB: 47.319.2030

Light distribution files

SAMSUNG

LED	LC016D / LC019D / LC026D / LC033D
FWHM / FWTM	59.0° / 101.0°
Efficiency	93 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
BJB: 47.319.2021

Light distribution files

LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

SAMSUNG

LED	LC016D / LC019D / LC026D / LC033D
FWHM / FWTM	62.0° / 103.0°
Efficiency	89 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
F13671_ANGE-RZ-LENS
A.A.G. STUCCHI: 8101-G2

Light distribution files

SAMSUNG

LED	LC016D / LC019D / LC026D / LC033D
FWHM / FWTM	59.0° / 101.0°
Efficiency	93 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
A.A.G. STUCCHI: 8101-G2

Light distribution files

SAMSUNG

LED	LC016D / LC019D / LC026D / LC033D
FWHM / FWTM	62.0° / 103.0°
Efficiency	89 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:
F13671_ANGE-RZ-LENS
BJB: 47.319.2021

Light distribution files

LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

SEOUL SEMICONDUCTOR

LED	ZC12/18
FWHM / FWTM	54.0° / 99.0°
Efficiency	93 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
A.A.G. STUCCHI: 8101-G2	

Light distribution files

SEOUL SEMICONDUCTOR

LED	ZC25/40/60
FWHM / FWTM	62.0° / 102.0°
Efficiency	92 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
A.A.G. STUCCHI: 8102-G2	

Light distribution files

SHARP

LED	Mega Zenigata (GW6DME)
FWHM / FWTM	55.0° / 100.0°
Efficiency	94 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	
A.A.G. STUCCHI: 8301-G2	

Light distribution files

LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

SHARP

LED	Tiger Zenigata (GWTGCBG4FD)
FWHM / FWTM	54.0° / 101.0°
Efficiency	90 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

F13671_ANGE-RZ-LENS

BJB: 47.319.2051

Light distribution files

TRIDONIC

LED	SLE G7 LES17 H
FWHM / FWTM	53.0° / 99.0°
Efficiency	91 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

Light distribution files

TRIDONIC

LED	SLE G7 LES21 H
FWHM / FWTM	59.0° / 100.0°
Efficiency	91 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

Light distribution files

LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

XICATO

LED	XOB 14.5 mm
FWHM / FWTM	57.0° / 100.0°
Efficiency	94 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

BJB: 47.319.2021

Light distribution files

XICATO

LED	XTM - 19mm LES
FWHM / FWTM	59.0° / 101.0°
Efficiency	92 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White

Required components:

C15743_XTM-ADAPTER-50-B

Light distribution files

LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (SIMULATED):

CITIZEN

LED	CLL04x/CLU04x
FWHM / FWTM	55.0° / 98.0°
Efficiency	90 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

BJB: 47.319.2030

Light distribution files

CITIZEN

LED	CLL04x/CLU04x
FWHM / FWTM	52.0° / 94.0°
Efficiency	95 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

BJB: 47.319.2030

CITIZEN

LED	CLU730/731/733
FWHM / FWTM	52.0° / 98.0°
Efficiency	93 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

BJB: 47.319.2030

Light distribution files

LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (SIMULATED):

LUMILEDS

LED	LUXEON K12
FWHM / FWTM	46.0° / 96.0°
Efficiency	%
LEDs/each optic	1
Light colour/type	White
Required components:	

BJB: 47.319.2070

Light distribution files

SAMSUNG

LED	LC040D / LC060D / LC080D
FWHM / FWTM	54.0° / 97.0°
Efficiency	90 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

BJB: 47.319.2030

Light distribution files

LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

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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