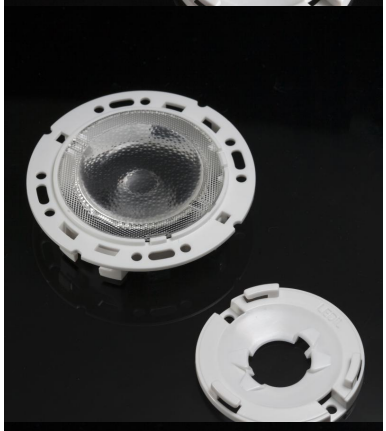
PRODUCT DATASHEET
Ronda series
last update 26/1/2017

Product number **FCN15209_RONDA-WAS**

Family	Ronda	FWHM	(simulated) Asymmetric
Type	Assembly	Efficiency	(simulated) 86 %
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	cd/lm	(simulated) 0.900
Color	White	Gerber File	Available
Diameter	69.9 mm		
Height	25.42 mm	Developed especially for wall washing applications at ~1:3 ratio assembly setup.	
Style	Round		
Optic Material	-		
Holder Material	-		
Fastening	["snaps", "socket", "clips", "screw"]		
Status	Production ready		



Product number **FCN15302_RONDA-WW**

Family	Ronda	FWHM	(simulated) 63
Type	Assembly	Efficiency	(simulated) 89 %
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	cd/lm	-
Color	White	Gerber File	Available
Diameter	69.9 mm		
Height	19.8 mm		
Style	Round		
Optic Material	-		
Holder Material	-		
Fastening	["socket", "screw"]		
Status	Production ready		

Product number **FCN15303_RONDA-WWW**

Family	Ronda	FWHM	(simulated) 90
Type	Assembly	Efficiency	(simulated) 87 %
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	cd/lm	-
Color	White	Gerber File	Available
Diameter	69.9 mm		
Height	19.8 mm		
Style	Round		
Optic Material	-		
Holder Material	-		
Fastening	["screw", "socket"]		
Status	Production ready		

Product number **FCN15314_RONDA-WAS**

Family	Ronda	FWHM	(simulated) Asymmetric
Type	Assembly	Efficiency	(simulated) 86 %
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	cd/lm	-
Color	White	Gerber File	Available
Diameter	69.9 mm		
Height	25.42 mm	Developed especially for wall washing applications at ~1:3 ratio assembly setup.	
Style	Round		
Optic Material	-		
Holder Material	-		
Fastening	["socket"]		
Status	Production ready		

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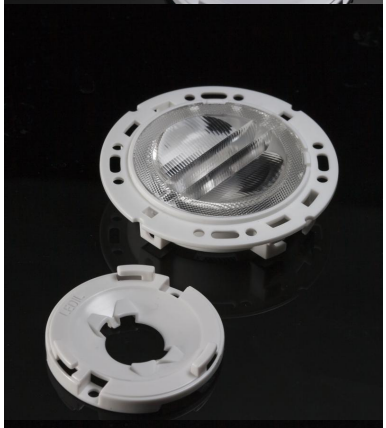
PRODUCT DATASHEET
Ronda series
last update 26/1/2017

Product number **FCN15315_RONDA-WW**

Family	Ronda	FWHM	(simulated) 63
Type	Assembly	Efficiency	(simulated) 89 %
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	cd/lm	-
Color	White	Gerber File	Available
Diameter	69.9 mm		
Height	19.8 mm		
Style	Round		
Optic Material	-		
Holder Material	-		
Fastening	["socket"]		
Status	Production ready		

Product number **FCN15316_RONDA-WWW**

Family	Ronda	FWHM	(simulated) 90
Type	Assembly	Efficiency	(simulated) 87 %
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	cd/lm	-
Color	White	Gerber File	Available
Diameter	69.9 mm		
Height	19.8 mm		
Style	Round		
Optic Material	-		
Holder Material	-		
Fastening	["socket"]		
Status	Production ready		



Product number **FCN15357_RONDA-ZT45**

Family	Ronda	FWHM	(simulated) Asymmetric
Type	Assembly	Efficiency	(simulated) 87 %
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	cd/lm	-
Color	White	Gerber File	Available
Diameter	69.9 mm		
Height	20.66 mm		
Style	Round		
Optic Material	-		
Holder Material	-		
Fastening	["socket"]		
Status	Production ready		

Double asymmetric beam. Developed especially for wall washing, corridor and supermarket applications @ ~1:2 ratio aisle assemblies (aisle width = wall height).

Product number **FCN15366_RONDA-ZT45**

Family	Ronda	FWHM	(simulated) Asymmetric
Type	Assembly	Efficiency	(simulated) 87 %
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	cd/lm	-
Color	White	Gerber File	Available
Diameter	69.9 mm		
Height	20.66 mm		
Style	Round		
Optic Material	-		
Holder Material	-		
Fastening	""		
Status	Production ready		

Double asymmetric beam. Developed especially for wall washing, corridor and supermarket applications @ ~1:2 ratio aisle assemblies (aisle width = wall height).

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PRODUCT DATASHEET
Ronda series
last update 26/1/2017

Product number **FN15380_RONDA-WAS**

Family	Ronda	FWHM	(simulated) Asymmetric
Type	Assembly	Efficiency	-
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	cd/lm	-
Color	White	Gerber File	Available
Diameter	69.9 mm		
Height	22.3 mm	Developed especially for wall washing applications at ~1:3 ratio assembly setup.	
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	["socket"]		
Status	Production ready		

Product number **FN15381_RONDA-WWW**

Family	Ronda	FWHM	(simulated) 84
Type	Assembly	Efficiency	(simulated) 84 %
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	cd/lm	-
Color	White	Gerber File	Available
Diameter	69.9 mm		
Height	14.6 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	["socket"]		
Status	Production ready		

Product number **FN15387_RONDA-WW**

Family	Ronda	FWHM	(simulated) 57
Type	Assembly	Efficiency	(simulated) 85 %
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	cd/lm	-
Color	White	Gerber File	Available
Diameter	69.9 mm		
Height	14.6 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	""		
Status	Production ready		

Product number **FN15388_RONDA-ZT45**

Family	Ronda	FWHM	(simulated) Asymmetric
Type	Assembly	Efficiency	-
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	cd/lm	-
Color	White	Gerber File	Available
Diameter	69.9 mm		
Height	15.4 mm	Double asymmetric beam. Developed especially for wall washing, corridor and supermarket applications @ ~1:2 ratio aisle assemblies (aisle width = wall height).	
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	""		
Status	Production ready		

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PRODUCT DATASHEET
Ronda series
last update 26/1/2017

Product number **FCN15499_RONDA-W**

Family	Ronda	FWHM	(simulated) 48
Type	Assembly	Efficiency	88 %
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	cd/lm	-
Color	White	Gerber File	Available
Diameter	69.9 mm		
Height	19.8 mm		
Style	Round		
Optic Material	-		
Holder Material	-		
Fastening	""		
Status	Production ready		

Product number **FN15552_RONDA-W**

Family	Ronda	FWHM	(simulated) 45
Type	Assembly	Efficiency	87 %
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	cd/lm	-
Color	White	Gerber File	Available
Diameter	69.9 mm		
Height	14.6 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	""		
Status	Production ready		

Product number **FCN15621_RONDA-W**

Family	Ronda	FWHM	(simulated) 48
Type	Assembly	Efficiency	88 %
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	cd/lm	-
Color	White	Gerber File	Available
Diameter	69.9 mm		
Height	19.8 mm		
Style	Round		
Optic Material	-		
Holder Material	-		
Fastening	""		
Status	Production ready		

Product number **FN15679_RONDA-S**

Family	Ronda	FWHM	(simulated) 27
Type	Assembly	Efficiency	(simulated) 85 %
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	cd/lm	-
Color	White	Gerber File	Available
Diameter	69.9 mm		
Height	14.6 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	["screw"]		
Status	Sample approved		

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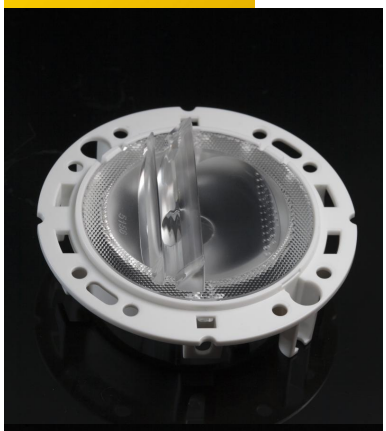
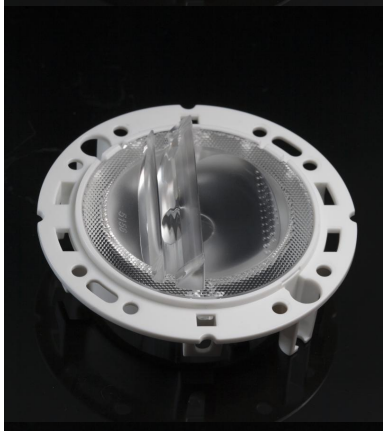
PRODUCT DATASHEET
Ronda series
last update 26/1/2017



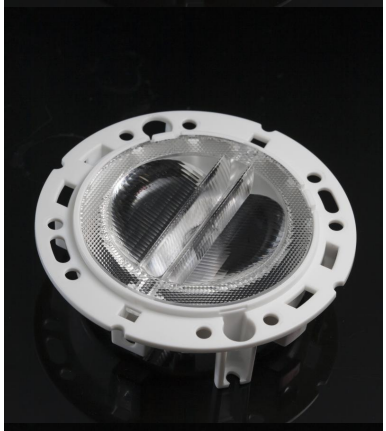
Product number **FN15731_RONDA-WAS-B**

Family	Ronda	FWHM	(simulated) Asymmetric
Type	Assembly	Efficiency	(simulated) 86 %
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	cd/lm	(simulated) 0.900
Color	White	Gerber File	Available
Diameter	69.9 mm	BJB 47.319.2xxx 50mm / Stucchi 8xxx/G2 50mm / Ideal chip lok jr compatible	
Height	22.3 mm		
Style	Round		
Optic Material	PMMA	Developed especially for wall washing applications at ~1:3 ratio assembly setup.	
Holder Material	-		
Fastening	["socket"]		
Status	Sample approved		



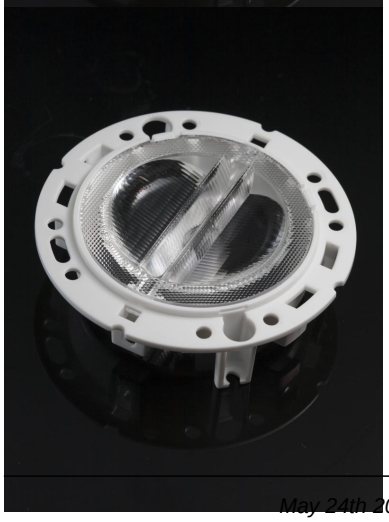
Product number **FN15731_RONDA-WAS-B**

Family	Ronda	FWHM	(simulated) Asymmetric
Type	Assembly	Efficiency	(simulated) 86 %
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	cd/lm	(simulated) 0.900
Color	White	Gerber File	Available
Diameter	69.9 mm	BJB 47.319.2xxx 50mm / Stucchi 8xxx/G2 50mm / Ideal chip lok jr compatible	
Height	22.3 mm		
Style	Round		
Optic Material	PMMA	Developed especially for wall washing applications at ~1:3 ratio assembly setup.	
Holder Material	-		
Fastening	["socket"]		
Status	Sample approved		



Product number **FN15733_RONDA-ZT45-B**

Family	Ronda	FWHM	(simulated) Asymmetric
Type	Assembly	Efficiency	(simulated) 87 %
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	cd/lm	-
Color	White	Gerber File	Available
Diameter	69.9 mm	BJB 47.319.2xxx 50mm / Stucchi 8xxx/G2 50mm / Ideal chip lok jr (50-20, 50-30) compatible	
Height	15.4 mm		
Style	Round		
Optic Material	PMMA	Double asymmetric beam. Developed especially for wall washing, corridor and supermarket applications @ ~1:2 ratio aisle assemblies (aisle width = wall height)	
Holder Material	-		
Fastening	""		
Status	Sample approved		



Product number **FN15733_RONDA-ZT45-B**

Family	Ronda	FWHM	(simulated) Asymmetric
Type	Assembly	Efficiency	(simulated) 87 %
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	cd/lm	-
Color	White	Gerber File	Available
Diameter	69.9 mm	BJB 47.319.2xxx 50mm / Stucchi 8xxx/G2 50mm / Ideal chip lok jr (50-20, 50-30) compatible	
Height	15.4 mm		
Style	Round		
Optic Material	PMMA	Double asymmetric beam. Developed especially for wall washing, corridor and supermarket applications @ ~1:2 ratio aisle assemblies (aisle width = wall height)	
Holder Material	-		
Fastening	""		
Status	Sample approved		

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PRODUCT DATASHEET
Ronda series
last update 26/1/2017

Product number **FN15734_RONDA-S-B**

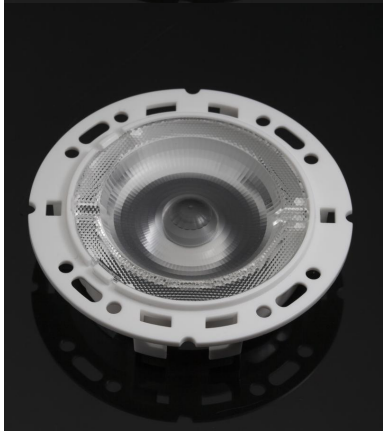
Family	Ronda	FWHM	(simulated) 27
Type	Assembly	Efficiency	(simulated) 85 %
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	cd/lm	-
Color	White	Gerber File	Available
Diameter	69.9 mm	BJB 47.319.2xxx 50mm / Stucchi 8xxx/G2 50mm / Ideal chip lok jr (50-20, 50-30) compatible	
Height	14.6 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	""		
Status	Sample approved		

Product number **FN15734_RONDA-S-B**

Family	Ronda	FWHM	(simulated) 27
Type	Assembly	Efficiency	(simulated) 85 %
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	cd/lm	-
Color	White	Gerber File	Available
Diameter	69.9 mm	BJB 47.319.2xxx 50mm / Stucchi 8xxx/G2 50mm / Ideal chip lok jr (50-20, 50-30) compatible	
Height	14.6 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	""		
Status	Sample approved		

Product number **FN15735_RONDA-W-B**

Family	Ronda	FWHM	(simulated) 48
Type	Assembly	Efficiency	(simulated) 88 %
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	cd/lm	-
Color	White	Gerber File	Available
Diameter	69.9 mm	BJB 47.319.2xxx 50mm / Stucchi 8xxx/G2 50mm / Ideal chip lok jr (50-20, 50-30) compatible	
Height	14.6 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	""		
Status	Sample approved		



Product number **FN15735_RONDA-W-B**

Family	Ronda	FWHM	(simulated) 48
Type	Assembly	Efficiency	(simulated) 89 %
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	cd/lm	-
Color	White	Gerber File	Available
Diameter	69.9 mm	BJB 47.319.2xxx 50mm / Stucchi 8xxx/G2 50mm / Ideal chip lok jr (50-20, 50-30) compatible	
Height	14.6 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	""		
Status	Sample approved		

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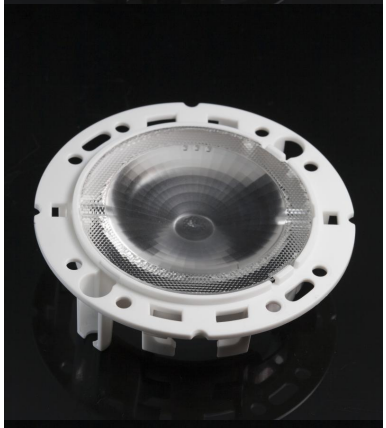
PRODUCT DATASHEET
Ronda series
last update 26/1/2017

Product number **FN15736_RONDA-WW-B**

Family	Ronda	FWHM	(simulated) 62
Type	Assembly	Efficiency	(simulated) 89 %
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	cd/lm	-
Color	White	Gerber File	Available
Diameter	69.9 mm	BJB 47.319.2xxx 50mm / Stucchi 8xxx/G2 50mm / Ideal chip lok jr (50-20, 50-30) compatible	
Height	14.6 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	""		
Status	Sample approved		

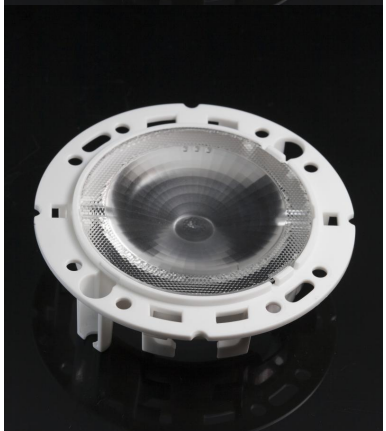
Product number **FN15736_RONDA-WW-B**

Family	Ronda	FWHM	(simulated) 62
Type	Assembly	Efficiency	(simulated) 89 %
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	cd/lm	-
Color	White	Gerber File	Available
Diameter	69.9 mm	BJB 47.319.2xxx 50mm / Stucchi 8xxx/G2 50mm / Ideal chip lok jr (50-20, 50-30) compatible	
Height	14.6 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	""		
Status	Sample approved		



Product number **FN15737_RONDA-WWW-B**

Family	Ronda	FWHM	(simulated) 90
Type	Assembly	Efficiency	87 %
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	cd/lm	-
Color	White	Gerber File	Available
Diameter	69.9 mm	BJB 47.319.2xxx 50mm / Stucchi 8xxx/G2 50mm / Ideal chip lok jr (50-20, 50-30) compatible	
Height	14.6 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	""		
Status	Sample approved		



Product number **FN15737_RONDA-WWW-B**

Family	Ronda	FWHM	(simulated) 90
Type	Assembly	Efficiency	87 %
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	cd/lm	-
Color	White	Gerber File	Available
Diameter	69.9 mm	BJB 47.319.2xxx 50mm / Stucchi 8xxx/G2 50mm / Ideal chip lok jr (50-20, 50-30) compatible	
Height	14.6 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	""		
Status	Sample approved		

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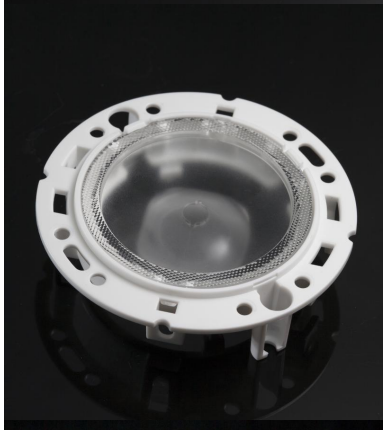
PRODUCT DATASHEET
Ronda series
last update 26/1/2017

Product number **FN15789_RONDA-REC-90**

Family	Ronda	FWHM	(simulated) 85
Type	Pack	Efficiency	(simulated) 90 %
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	cd/lm	(simulated) 0.000
Color	Clear	Gerber File	Available
Diameter	69.9 mm		
Height	14.6 mm	Developed especially for office applications.	
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	""		
Status	Sample approved		

Product number **FCN15790_RONDA-REC-90**

Family	Ronda	FWHM	(simulated) 90
Type	Pack	Efficiency	(simulated) 90 %
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	cd/lm	(simulated) 0.000
Color	Clear	Gerber File	Available
Diameter	69.9 mm		
Height	19.8 mm	Developed especially for office applications.	
Style	Round		
Optic Material	-		
Holder Material	-		
Fastening	""		
Status	Sample approved		



Product number **FN15792_RONDA-REC-90-B**

Family	Ronda	FWHM	(simulated) 90
Type	Pack	Efficiency	(simulated) 90 %
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	cd/lm	(simulated) 0.000
Color	Clear	Gerber File	Available
Diameter	69.9 mm		
Height	14.6 mm	Developed especially for office applications.	
Style	Round		
Optic Material	PMMA	BJB 47.319.2xxx 50mm / Stucchi 8xxx/G2 50mm / Ideal chip lok jr (50-20, 50-30) compatible	
Holder Material	-		
Fastening	""		
Status	Sample approved		

Product number **FCN15793_RONDA-S**

Family	Ronda	FWHM	(simulated) 29
Type	Assembly	Efficiency	(simulated) 85 %
LED	CXA/B 1816 & CXA/B 1820 & CXA 1850	cd/lm	(simulated) 2.550
Color	White	Gerber File	Available
Diameter	69.9 mm		
Height	19.8 mm		
Style	Round		
Optic Material	-		
Holder Material	-		
Fastening	["screw", "socket"]		
Status	Sample approved		

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NOTE: The typical divergence will be changed by different color, chip size and chip position tolerance. The typical total divergence is the full angle measured where the luminous intensity is half of the peak value.

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GENERAL INFORMATION

- Product series especially designed & optimized for CXA/B 1816 & CXA/B 1820 & CXA 1850 series of LEDs.

- Special care taken to make light distribution as uniform as possible.
- Lens material optical grade PMMA with high UV and temperature resistance. Allows use of high current and temperature conditions.

Please find more information about used material from below:
http://ledil.fi/sites/default/files/Documents/Technical/Material/PMMA%208N%20UL94_Yellow%20Card.pdf
http://ledil.fi/sites/default/files/Documents/Technical/Material/PMMA%208N%20PLEXIGLAS-Datasheet.pdf

Note! 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.

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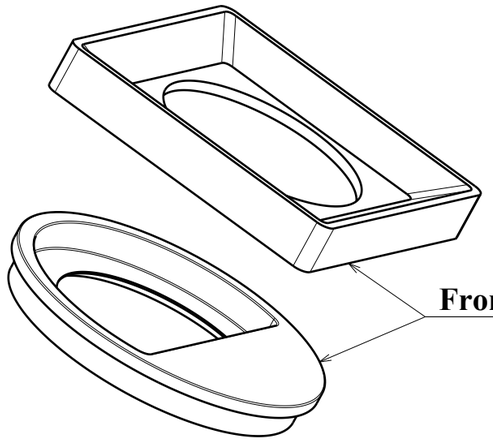
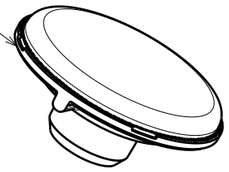


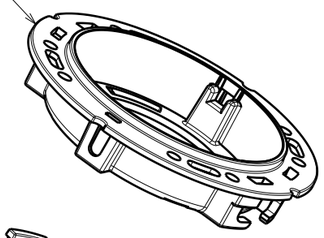
Front plate examples

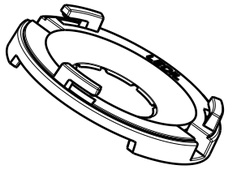
D=49.9



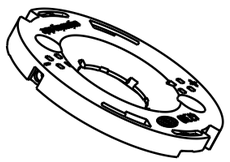
Optic

D=69.9mm





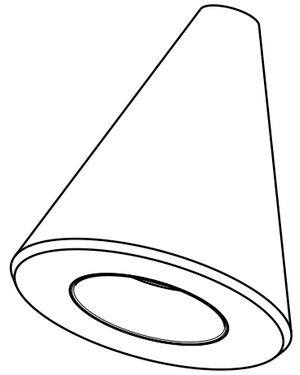
Ledil-clamp / TE / Bender-wirth / other twist and lock socket types (holder A)



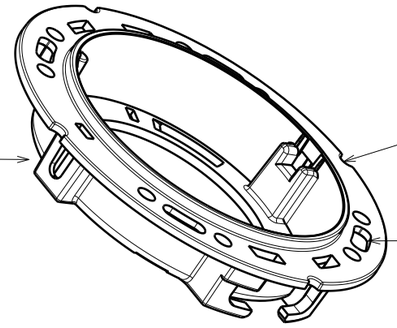
BJB and Stucchi 50mm (holder B)

LES size up to ~14mm, see compatibility www.ledil.com

Examples



Horizontal fix: M3 Nut + bolt



Rotation fix

Vertical fix: M3 Screw / Twist and lock / Snap

See more details on page 2 and 3

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

THIRD ANGLE PROJECTION:

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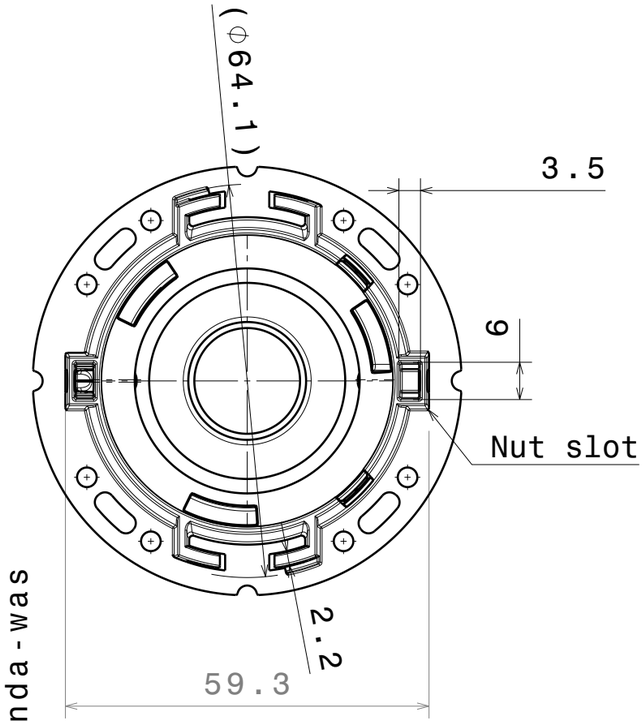
Ledil Oy
Salorankatu 10
FIN 24240 SALO
Finland

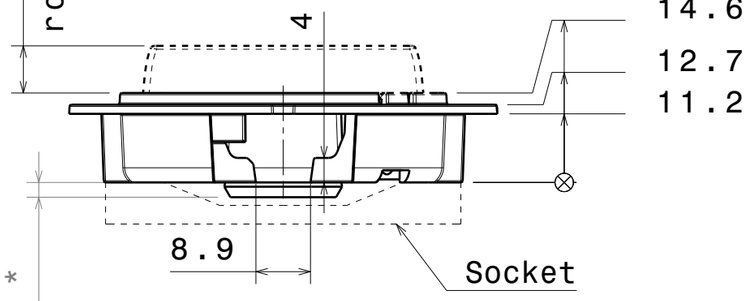
DRAWING TITLE
RONDA-family

SIZE	PART NUMBER			
A3	-			
SCALE 1:1	WEIGHT -		SHEET 1/3	

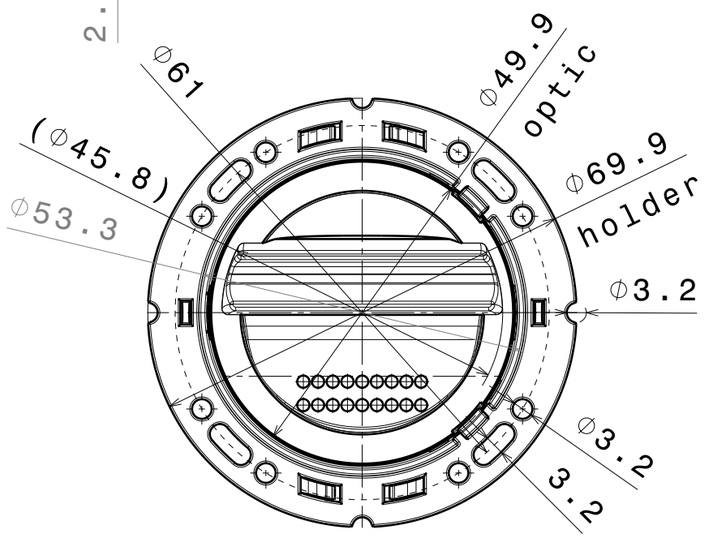
Bottom view

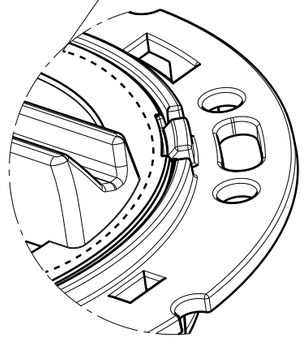


Front view

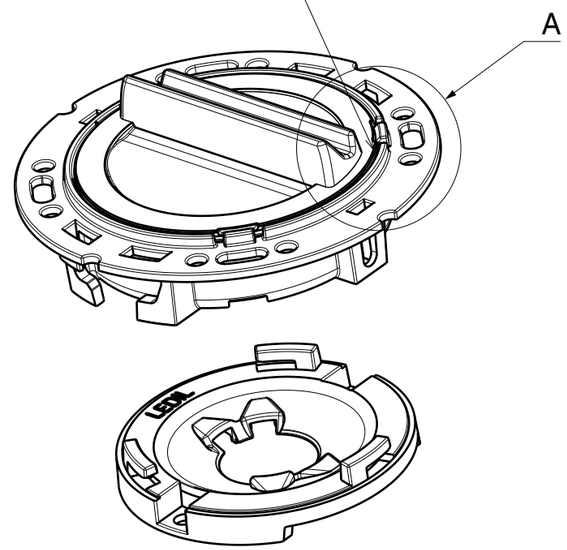


Top view





Detail A



Isometric view

* Ensure from 3d according specific optic version

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

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Salorankatu 10
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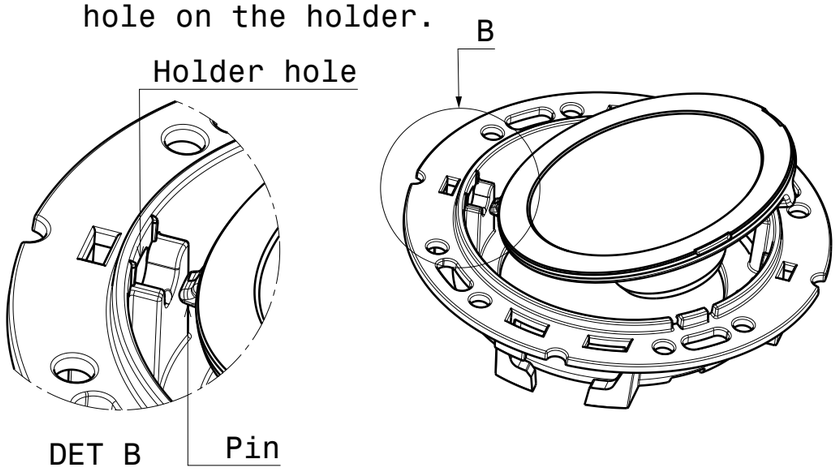
Finland

DRAWING TITLE
RONDA-family

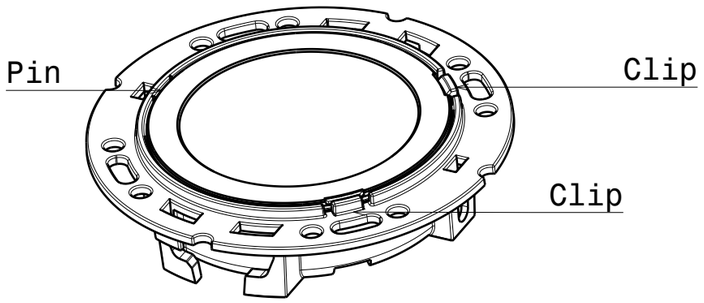
SIZE	PART NUMBER			
A3	-			
SCALE 1:1	WEIGHT -		SHEET 2/3	

OPTIC/HOLDER ASSEMBLY

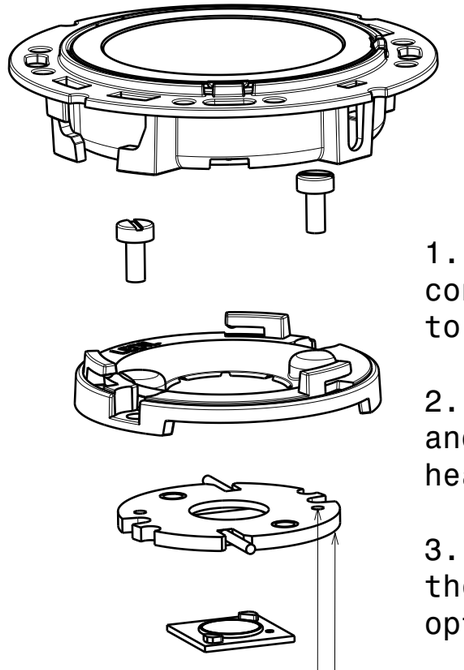
1. Place pin on the side of the lens into relative hole on the holder.



2. Press the lens under clips on the holder, ensuring both clips are fixed.



TYPICAL CONNECTOR ASSEMBLY (including solderless BENDER WIRTH as example)



1. Ensure correct relation of clamp and connector before screwing. Recommended torque 0.6Nm.

2. Assemble LED, BENDER&WIRTH connector and C13658_CLAMP-VERO13-18 clamp on heatsink with M3 screw.

3. Attach optic by aligning the holes in the holder with hooks and turning the optic holder clockwise until it locks.

Bender&Wirth model 4xx Typ L1

Align clamp positioning pin with holes in the connector.

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

THIRD ANGLE PROJECTION:

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LEDiL
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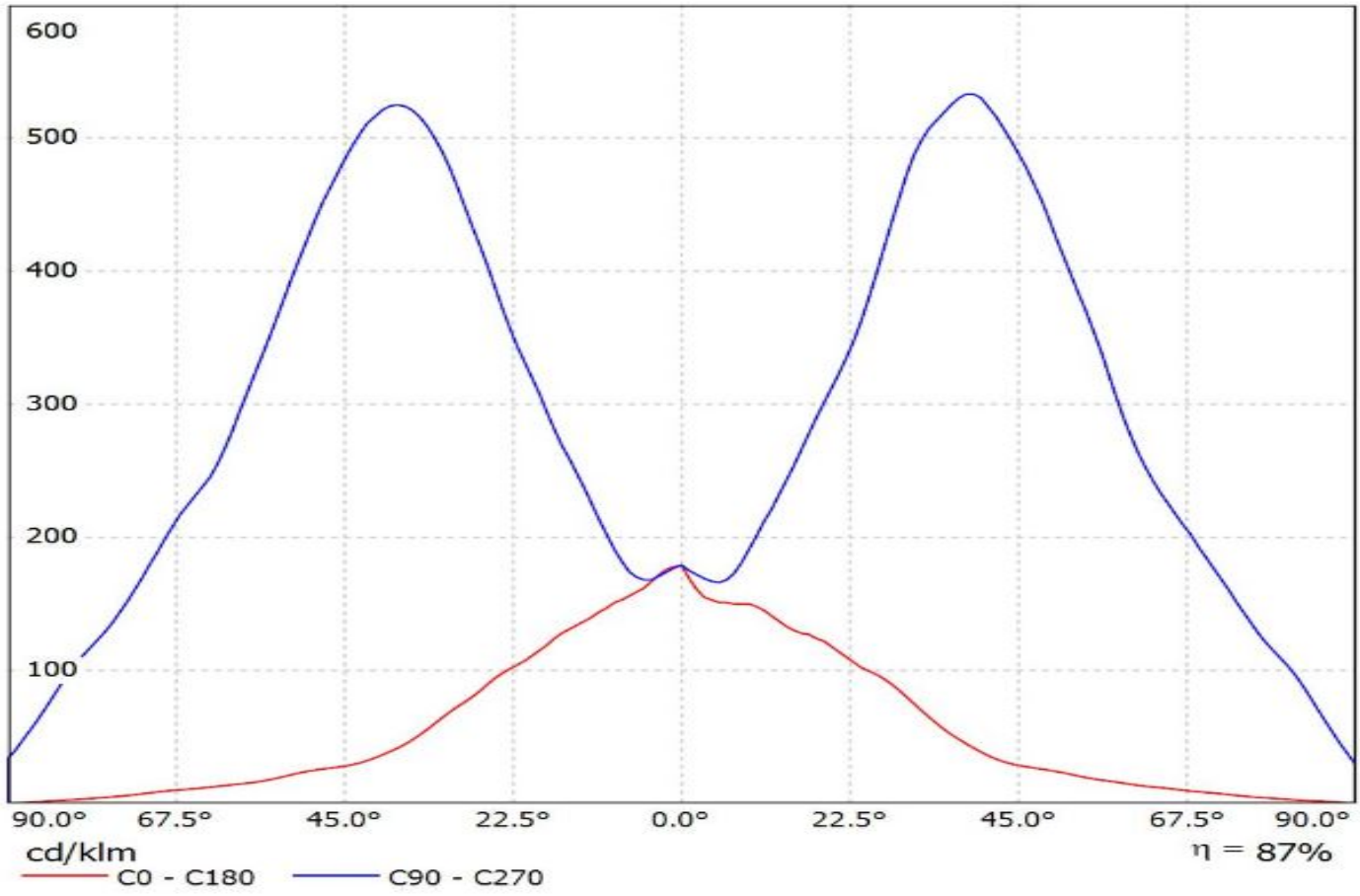
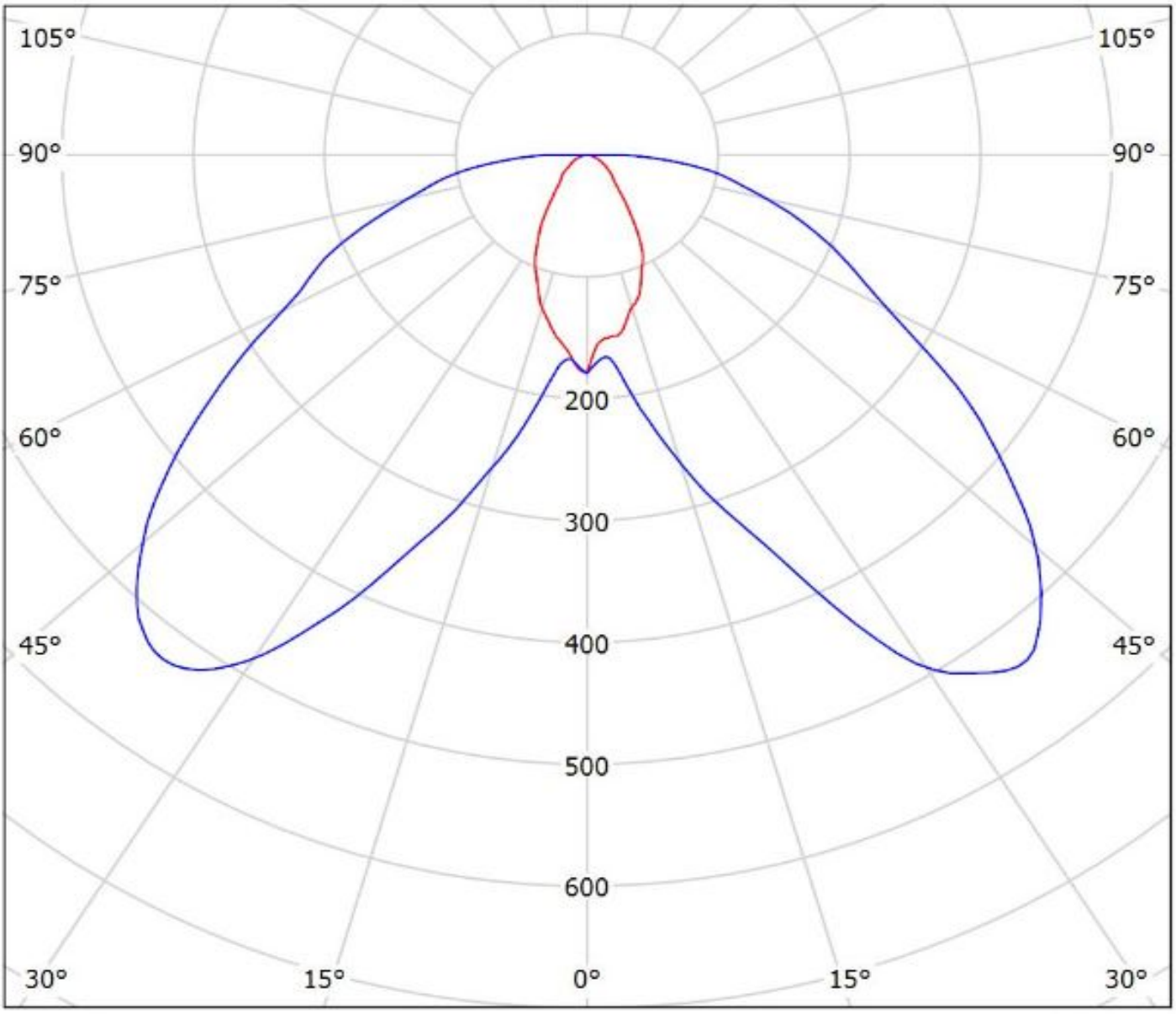
Finland

DRAWING TITLE
RONDA-family

SIZE	PART NUMBER
A3	-

SCALE	WEIGHT		SHEET
1:1	-		3/3

Luminaire: FCN15357_RONDA-ZT45_CXA1816_SIMULATED_1000LM
Lamps: 1 x 1000lm



Luminaire: FCN15357_RONDA-ZT45_CXA1816_SIMULATED_1000LM
Lamps: 1 x 1000lm