

Secondary Optical Lens Series

for Edixeon[®] LEDs

Features

- High Efficiency
- Available in various beams
- Total internal reflection technology
- Suitable for “Lambertian” type design
- New single piece, housing or housing-less design for easier assembly, improved high performance/cost ratio

Typical Applications

- Reading Lamps
- Architectural Lighting
- Streets Lighting
- Decoration Lights
- Down Lights



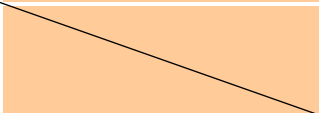
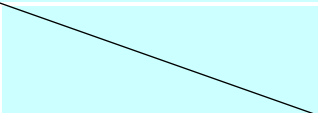



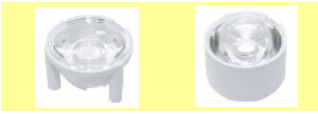



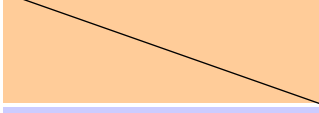
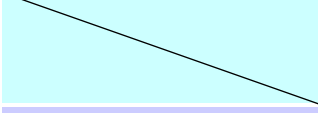













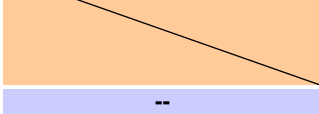
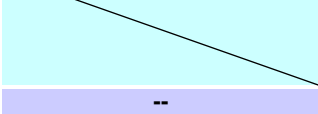
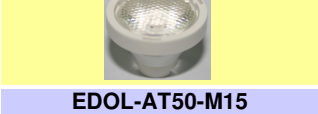
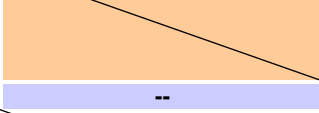
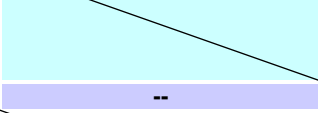

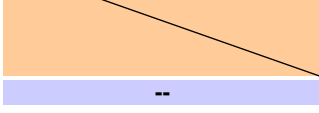
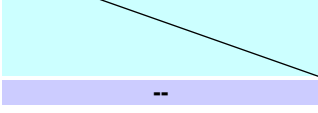
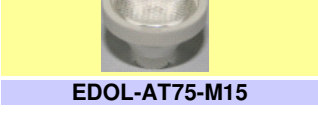
General Characteristics

Lens Material	Optical Grade PMMA
Housing Material	PC
Operating Temperature Range	-40 deg C / + 70 deg C
Storage Temperature Range	-40 deg C / + 70 deg C

Usage and Maintenance

1. Clean Lenses with mild soap and water and a soft cloth.
2. Do not use any commercial cleaning solvents on lenses, like alcohol.
3. Please handle or install lenses with wearing gloves, skin oils may damage lens or optical characteristic.

Secondary Lens Series List

Angle	Housing Color (with Lens)		
	Black	Clear	White
8°			
	--	--	EDOL-AT08-M15
15°			
	EDOL-AB15-M11 / EDOL-AA15-M11	EDOL-AB15-M14 / EDOL-AA15-M14	EDOL-AB15-M15 / EDOL-AA15-M15
25°			
	EDOL-AA25-M12	EDOL-AA25-M14	EDOL-AA25-M15
35°			
	--	--	EDOL-AB35-M15
38°			
	EDOL-AA38-M11	EDOL-AA38-M14	EDOL-AA38-M15
			
	EDOL-AA38-R11	EDOL-AA38-R14	EDOL-AA38-R15
45°			
	EDOL-AA45-M11	EDOL-AA45-M14	EDOL-AA45-M15
			
	EDOL-AA45-R11	EDOL-AA45-R14	EDOL-AA45-R15
50°			
	--	--	EDOL-AT50-M15
60°			
	--	--	EDOL-AT60-M15
75°			
	--	--	EDOL-AT75-M15

Optical Characteristics

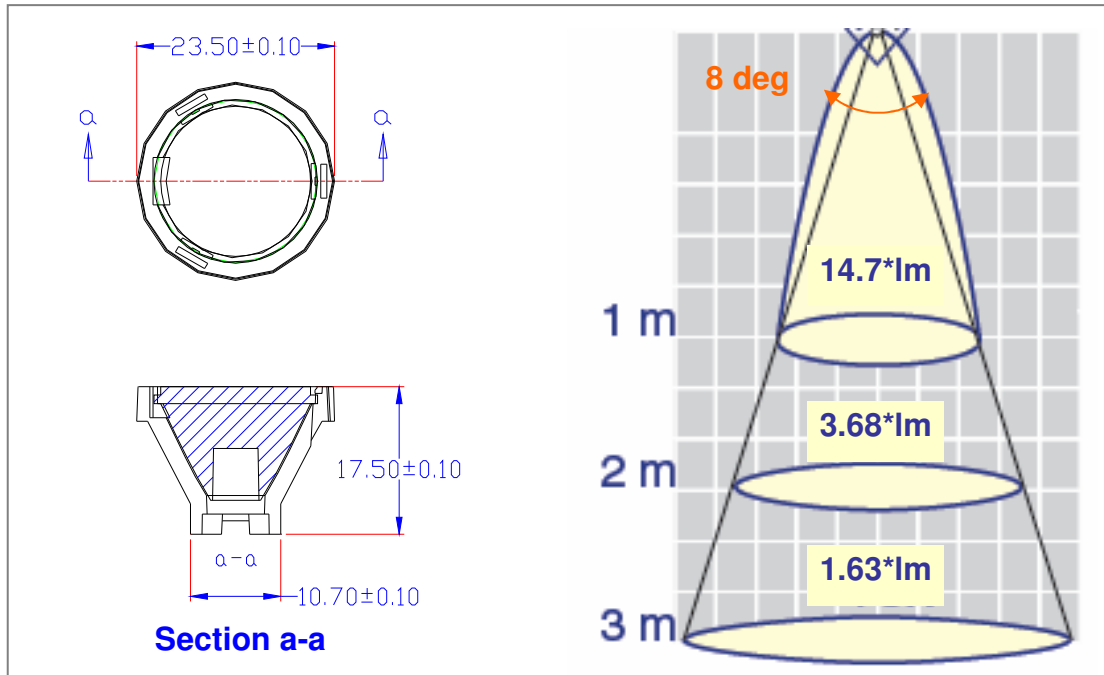
With EDEx-KLC8 Part Number	Typical on-axis efficiency (cd/lm)	
	White LED	Warm White LED
EDOL-AT08-M15	14.7	14.32
EDOL-AA15-M1x	12.35	12.5
EDOL-AB35-M1x	17.06	14.32
EDOL-AT35-M15	8.57	8.75
EDOL-AA38-M1x	5.88	6.36
EDOL-AA38-R1x	4.12	4.09
EDOL-AA45-M1x	1.76	1.7
EDOL-AA45-R1x	1.18	1.2
EDOL-AT50-M15	2.35	2.72
EDOL-AT60-M15	1.53	1.7
EDOL-AT75-M15	1.06	1.32
EDOL-AA1550-M1x	3.53	3.64
EDOL-AA3060-M15	4.71	5.45

With EDEx-KLC8 Part Number	Typical total beam (deg)	
	White LED	Warm White LED
EDOL-AT08-M15	8°/45° (narrow / flood)	8°/45° (narrow / flood)
EDOL-AA15-M1x	15°/30° (narrow / flood)	15°/30° (narrow / flood)
EDOL-AA25-M1x	20°/30° (narrow / flood)	22°/34° (narrow / flood)
EDOL-AB35-M15	35°	37°
EDOL-AA38-M1x	38°	40°
EDOL-AA38-R1x	40°	42°
EDOL-AA45-M1x	45°	48°
EDOL-AA45-R1x	48°	50°
EDOL-AT50-M15	50°	55°
EDOL-AT60-M15	60°	65°
EDOL-AT75-M15	75°	78°
EDOL-AA1550-M1x	30°x100°	30°x100°
EDOL-AA3060-M15	30°x60°	30°x60°

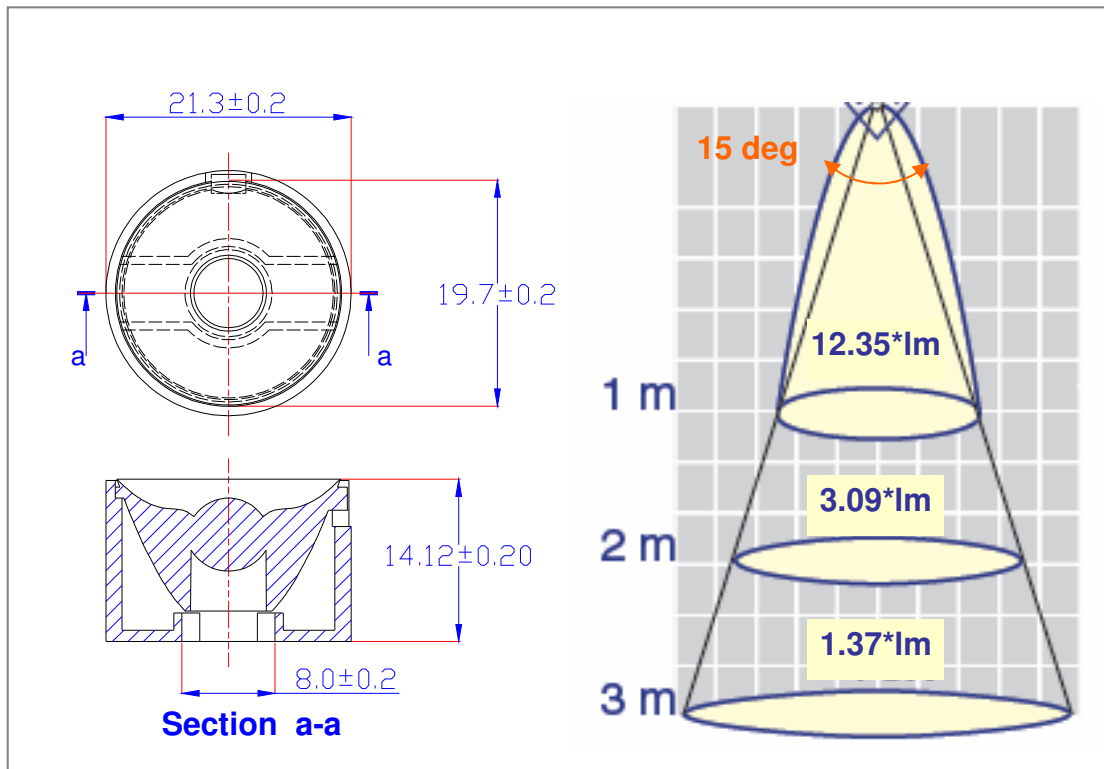
The typical divergence varies with LED due to different chip size and chip position tolerance. The typical total divergence is the full angle measured where the luminous intensity is 10% of the peak value.

Mechanical Characteristics and Illumination Chart

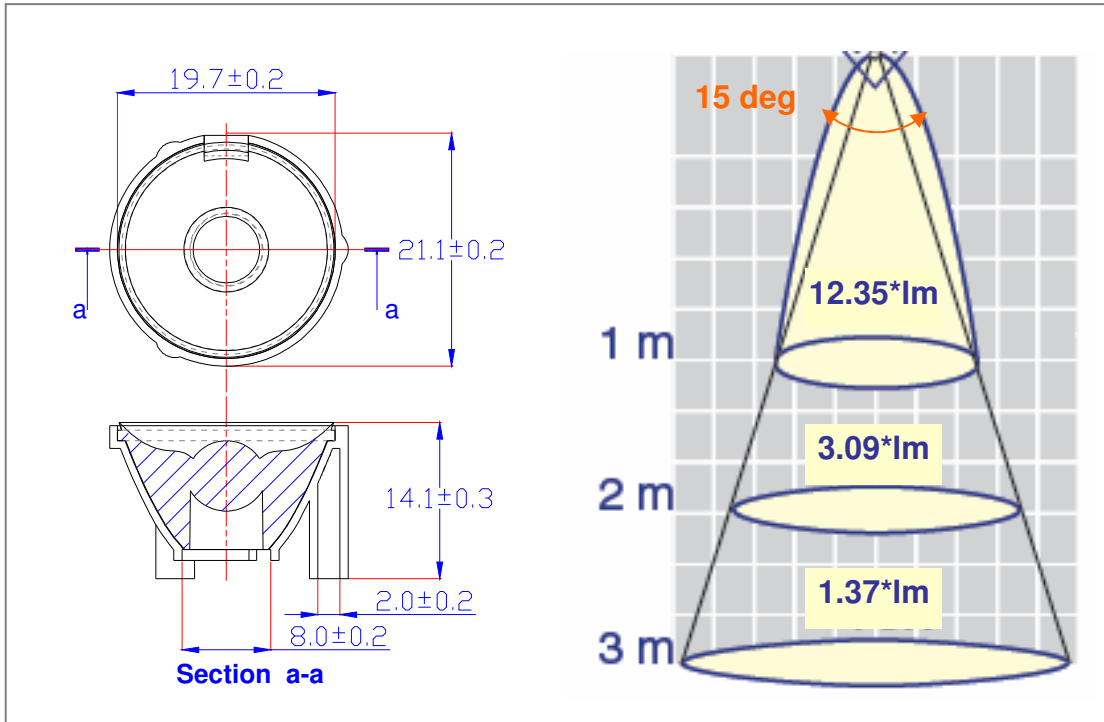
EDOL-AT08-M15



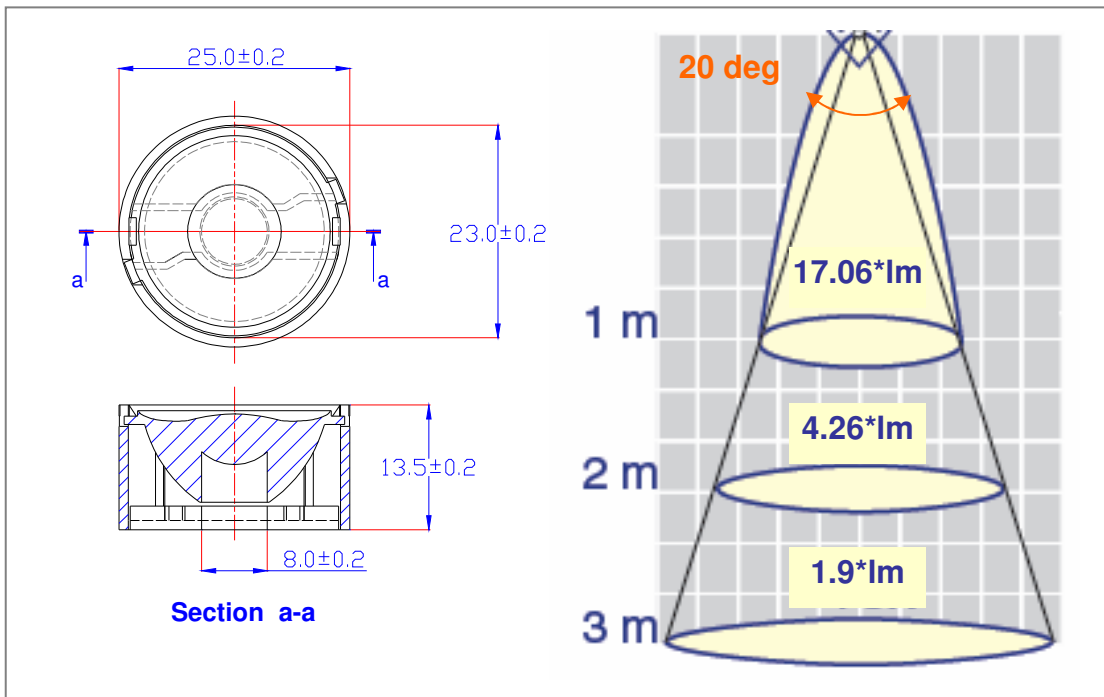
EDOL-AA15-M1x



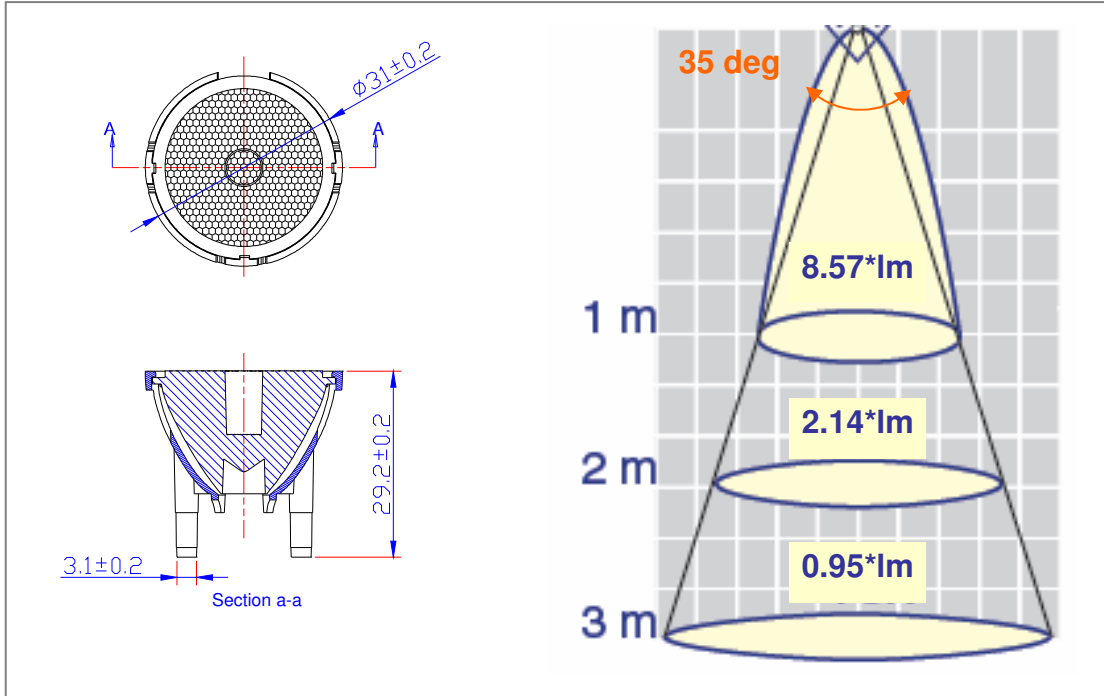
EDOL-AB15-M1x



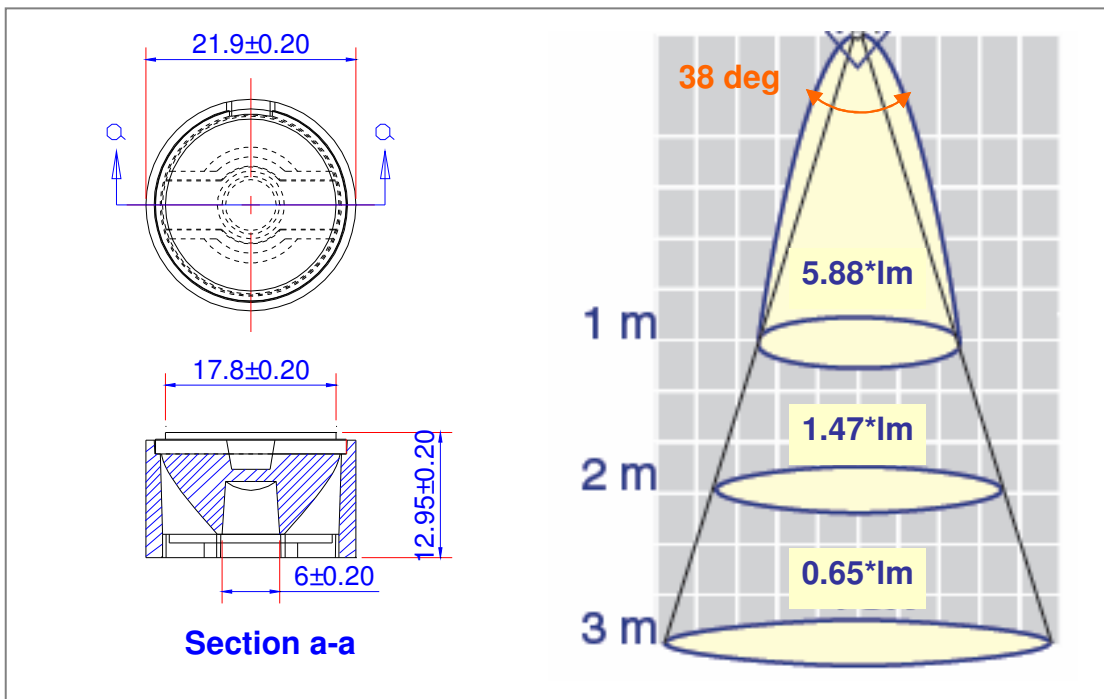
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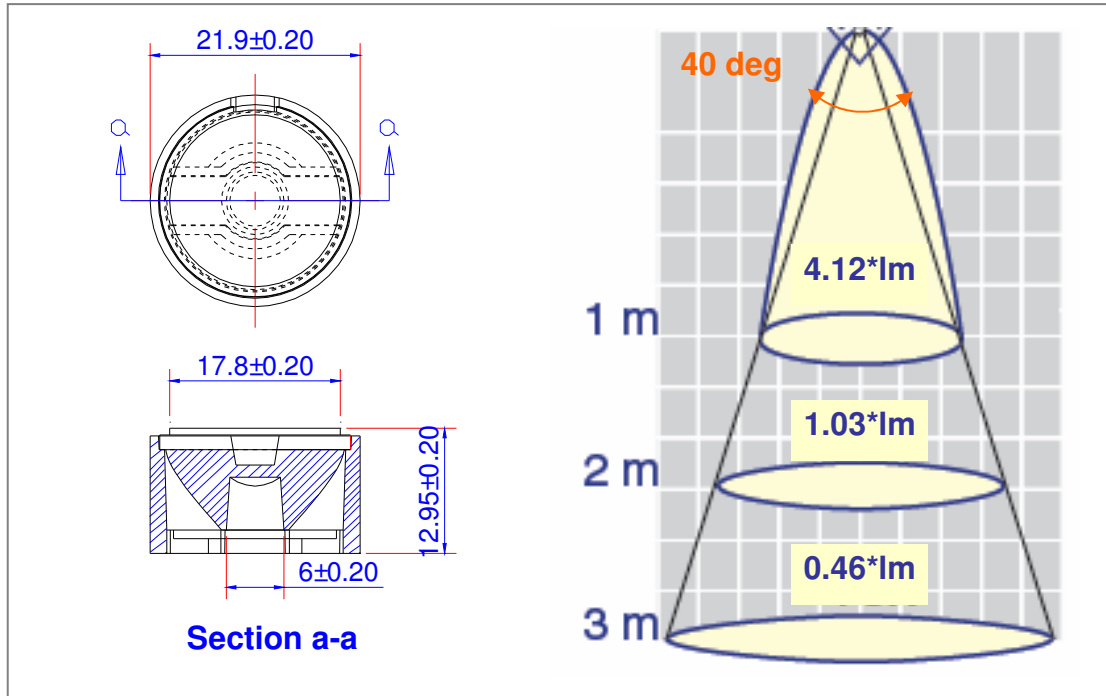
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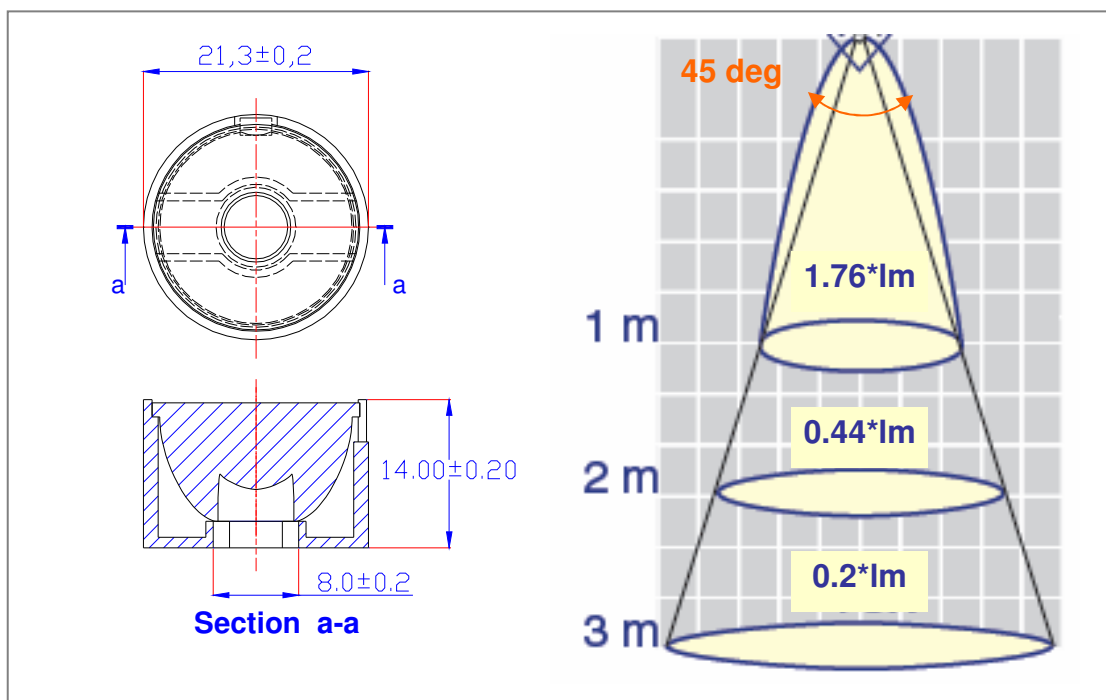
EDOL-AA38-M1x



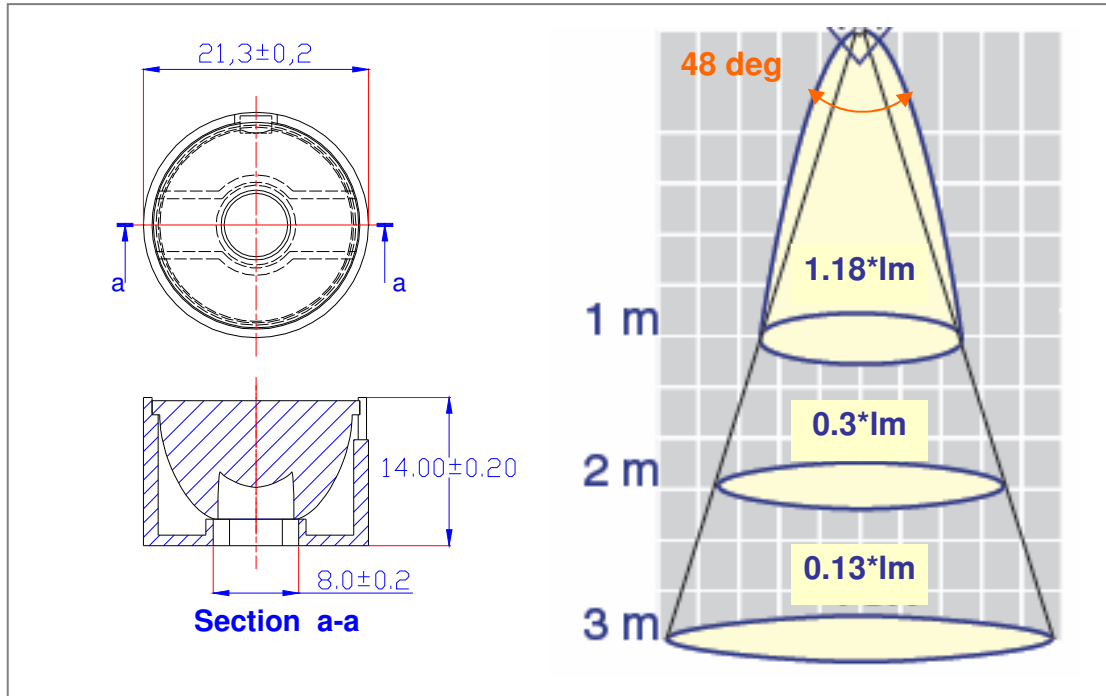
EDOL-AA38-R1x



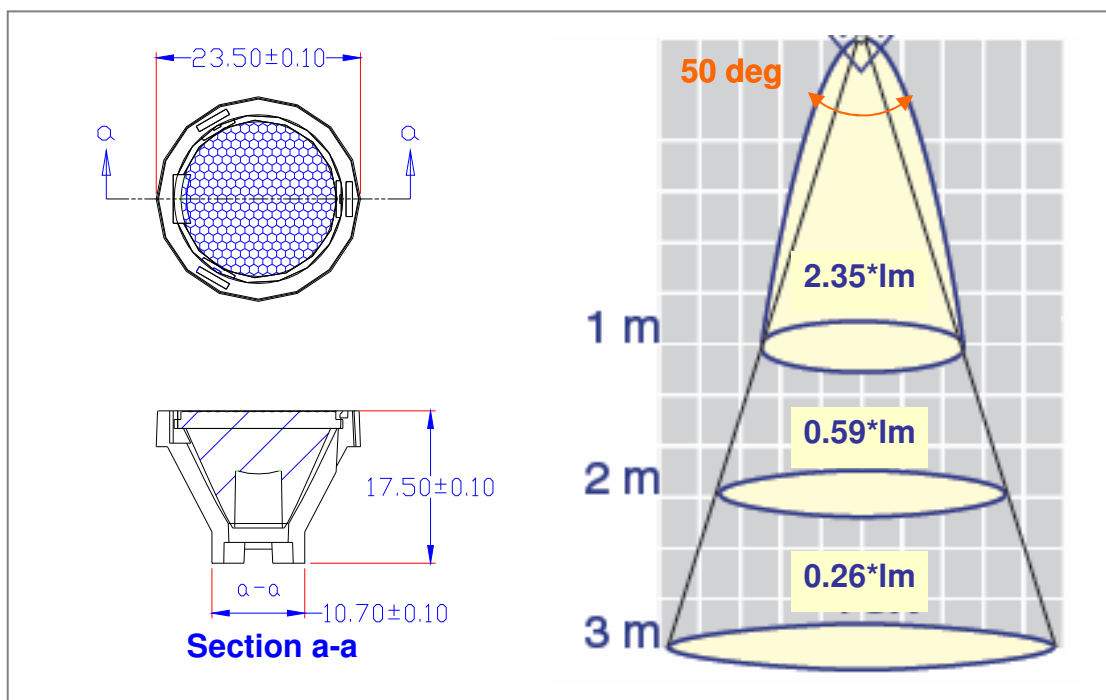
EDOL-AA45-M1x



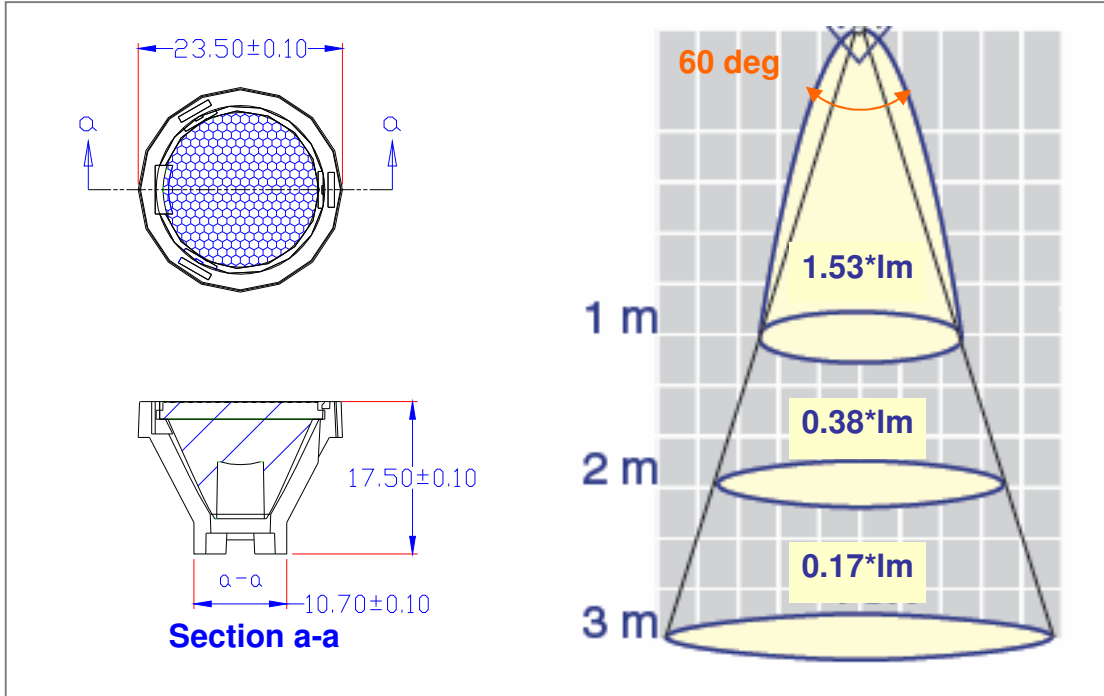
EDOL-AA45-R1x



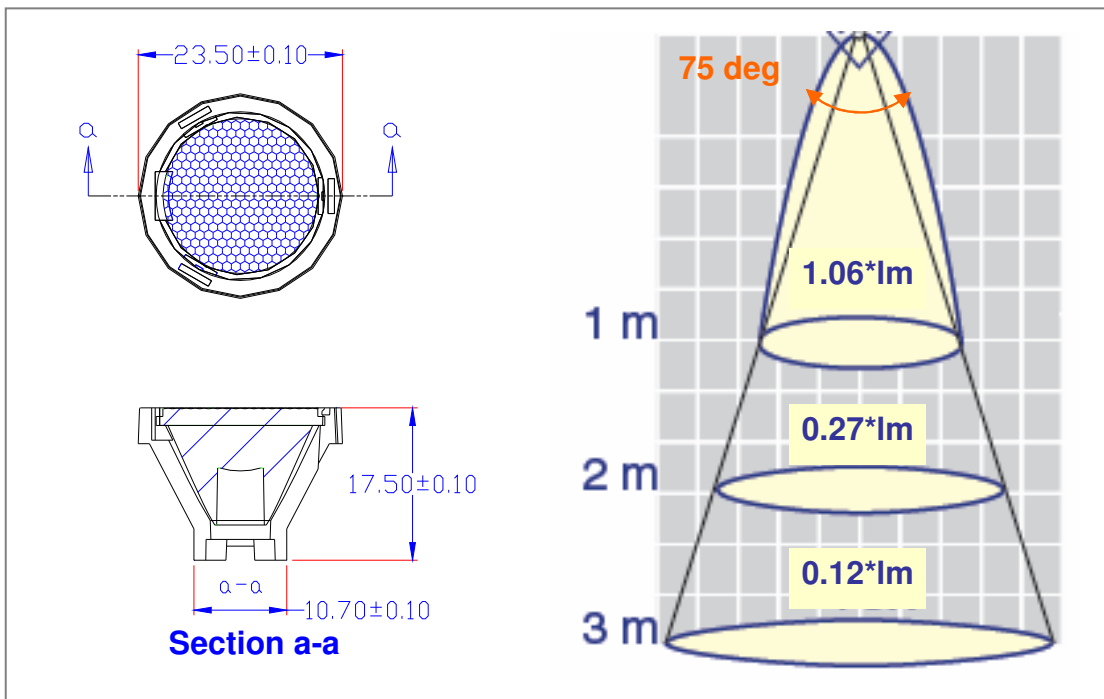
EDOL-AT50-M15



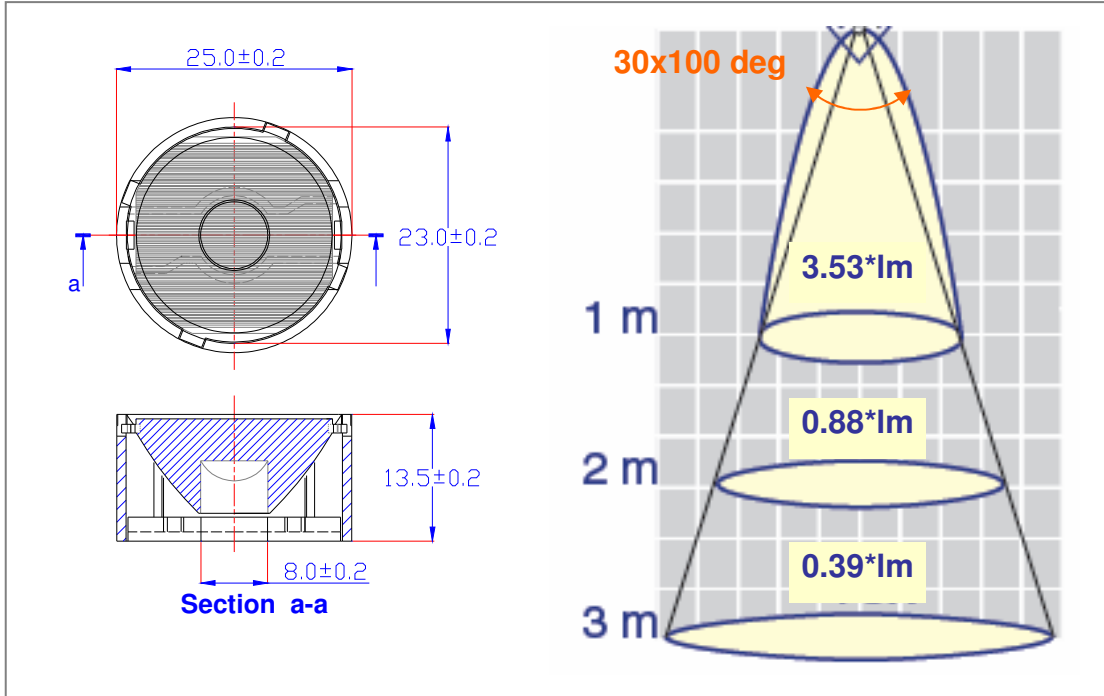
EDOL-AT60-M15



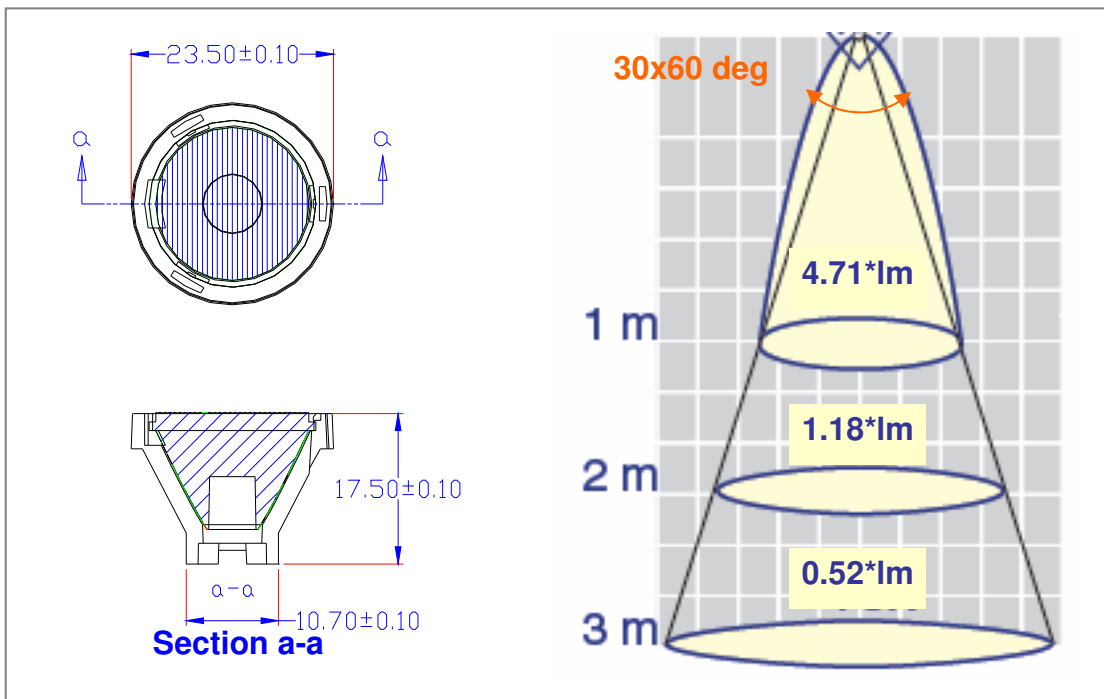
EDOL-AT75-M15



EDOL-AA1550-M1x



EDOL-AT3060-M15



Notes:

- All dimensions are in mm.
- All drawings are not to scale..
- All optic parts are assembly tolerance below figure 1.

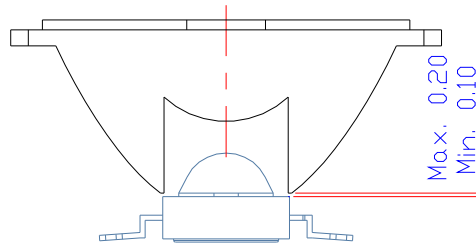


Figure 1: Assembly allowed tolerance

- The data is for white color.
- Typical illumination measured in lux per lumen with typical Edixeon® EDEW-KLC8 series.
- Illumination output depends on the flux binning and tolerances of the LEDs. Please refer to the Edixeon® datasheet to verify the flux bin.
- The values have been calculated using the efficiency values of the lens above and the formula $E=I / d^2$, where E is the illuminance in lux, I is the intensity in cd, and d is the distance between the lens and the measured points.