List of led lenses available in stock

V_01 04-21

R7L / R8L led lenses

Suitable for Led single diode

Distance between lens and led: From 1 to 3mm

Lens code	angle distribution	back focal length	diameter
R7L	+/- 8°	8,5mm	20mm
R8L	+/- 15°	10,6mm	20mm

Note

The convex surface is not shiny but has a micro processing to improve the projection of the light

NF-Series

Suitable for Led single diode

Distance between lens and led: From 1 to 3mm

Lens code	angle distribution	back focal length	diameter
NF-40	+/- 40°	2mm	26mm
NF-30	+/- 30°	6mm	26mm
NF-20	+/- 20°	12mm	26mm
NF-11	+/- 11°	20mm	26mm

Note

In the lens base there are three holes, diameter 3.0 mm, interaxis 20 mm or 2 holes, diameter 3.0 mm, interaxis 20 mm.

LK-Series

Suitable for Led single diode

Distance between lens and led: From 1 to 3mm

Lens code	angle distribution	back focal length	diameter
Lk-40	+/- 40°	2mm	20mm
LK-30	+/- 30°	6mm	20mm
LK-20	+/- 20°	12mm	20mm
LK-11	+/- 11°	20mm	20mm

Note

Lenses suitable for very compact lighting applications

C-Series

Suitable for Led single diode and for C.O.B. Led (COB LEDs are basically multiple LED chips).

Distance between lens and C.O.B: between 5 more than 15mm

Lens code	angle distribution	Base diameter	Lens diameter
C6-B	Extra wide	46mm	30,5mm
C6-AB	Extra wide	37mm	30,5mm
C7	Extra wide	55mm	40,5

Note

IODA has developed a new led lens which can increase the light angle emitted from a COB (usually +/- 70°) reaching a value higher than +/- 100°.

The C6-B model is available with a base designed to be drilled and mounted on a holder or with a base with a diameter reduced to just 36mm.

List of led lenses available in stock

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D-Series

Suitable for C.O.B. Led (COB LEDs are basically multiple LED chips).
Distance between lens and C.O.B: between 5 more than 15mm m

Lens code	angle distribution	back focal length	diameter
D30-AD40	+/- 40°	25mm	30mm
D30-AD25	+/- 25°	18mm	
D30-AD15	+/- 15°	11mm	
D45-AD30	+/- 30°	32mm	45mm
D45-AD20	+/- 20°	15mm	
D55-PL	light diffuser	Infinity	55mm
D55-AD65	+/- 65°	250mm	
D55-AD45	+/- 45°	75mm	
D55-AD30	+/- 30°	28mm	
D55-AD20	+/- 20°	13mm	
D70-AD60	+/- 60°	175mm	70mm
D70-AD50	+/- 50°	105mm	
D70-AD40	+/- 40°	75mm	

Note

The angular projection (light opening angle) is mainly dependending on the distance between the LED and the lens and the focal length of the lens itself.

Bench test parameters to define the angle distributions

Edison COB ED 4000K 19x19mm 80CRI 720-1440mA BIN F2403 – L.E.S. 16mm

Distance between the base of the C.O.B. and the flat surface of the lens: 5mm, increasing the distance the angle distribution will decrease

L-Series

Suitable for C.O.B. Led (COB LEDs are basically multiple LED chips).
Distance between lens and C.O.B: between 5 more than 15mm m

The convex surface is not shiny but has a micro processing to improve the projection of the light

Lens code	angle distribution	back focal length	diameter
D30-AD20LV3	+/- 20°	15mm	30mm
D30-AD15LV3	+/- 15°	11mm	
D45-AD20LV3	+/- 20°	15mm	45mm
D55-AD65L	+/- 65°	250mm	55mm
D55-AD45L	+/- 45°	65mm	
D55-AD30L	+/- 30°	28mm	
D70-AD20LV3	+/- 20°	55mm	70mm
D70-AD15LV3	+/- 15°	40mm	
D70-AD10LV3	+/- 10°	25mm	

Note

The angular projection (light opening angle) is mainly dependending on the distance between the LED and the lens and the focal length of the lens itself.

Bench test parameters to define the angle distributions

Edison COB ED 4000K 19x19mm 80CRI 720-1440mA BIN F2403 – L.E.S. 16mm; Distance between the base of the C.O.B. and the flat surface of the lens: 5mm, increasing the distance the angle distribution will decrease

List of led lenses available in stock

V_01 04-21

Fresnel led lenses

Suitable for C.O.B. Led (COB LEDs are basically multiple LED chips).
Distance between lens and C.O.B: between 5 more than 15mm m

Lens code	Center thickness	back focal length	diameter
FR_F15_D55_R	5mm	15mm	55mm
FR_F25_D55_R	4.5mm	25mm	55mm
FR_F37_D55_R	5.5mm	37mm	55mm
FR_F80_D55_R	3.5mm	80mm	55mm
FR_F95_D96_R	4mm	95mm	96mm
FR_F40_D114_R	11mm	40mm	114mm
FR_F70_D148_R	4mm	70mm	148mm

Note

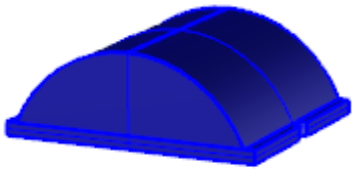
Fresnel lenses consist of a series of concentric grooves etched onto one surface. Their thin, lightweight construction, available in small as well as large sizes, and excellent light gathering ability make them useful in a variety of applications.

The Fresnel lens allows the construction of large-size and small optical focal length lenses without the bulk: the thickness and weight of the material needed to build them are lower than in a conventional spherical lens of equivalent dioptric power.

Cylindrical Led lenses

Suitable for single led or several aligned led
Distance between the base of the lens and the LED equal to or less than the focal distance

Lens code	Center thickness	back focal length	Base dimension	Convex radius
Cyl_20X20R12	7,5mm	19,6mm	20X20mm	12,5mm
Cyl_36X36R15	14,5mm	19,9mm	36X36mm	15mm
Cyl_36X50R15	14,5mm	19,9mm	36X50mm	15mm
Cyl_46X48R20	20mm	26,2mm	46X48mm	20mm
CL-R3051	21,5mm	44.9mm	50X60mm	30mm
CL-R30_64X164	21,5mm	44.9mm	64X164	30mm



The led light passing through the cylindrical lens expands in a single axis (showing the projection of a line of light if the led is in the right position)