

The shape of Light



嵐雅光學股份有限公司
OPTICAL SOLUTION

B&M

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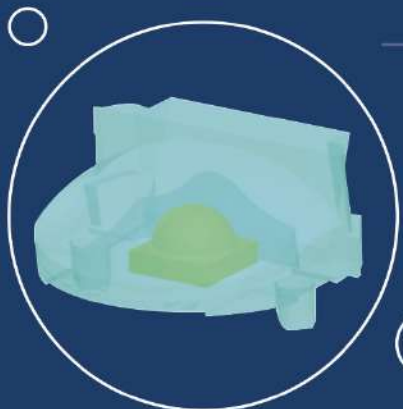
Cooperate Partners : **XICATO**

CREE 
▶ LED Solution Provider

LED  Light for you
powered by OSRAM

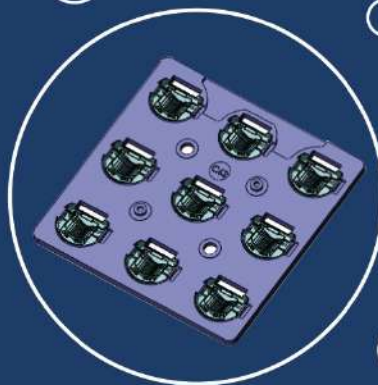
PHILIPS
LUMILEDS

Lens Evolution



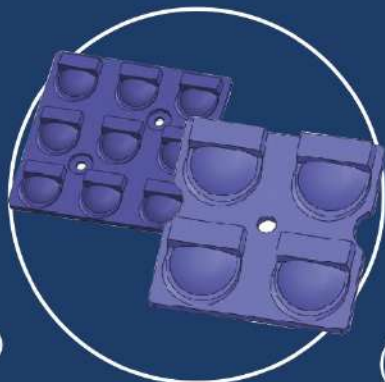
Single Lens

Light, Small, Efficient
Narrow to Wide Beam Angle
Design as You Wish



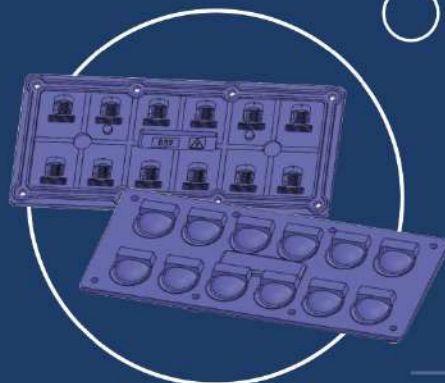
Module

High Flexibility
Optical Mixed



Lens Array

Competitive Price
Variety of Choices



IP Solution

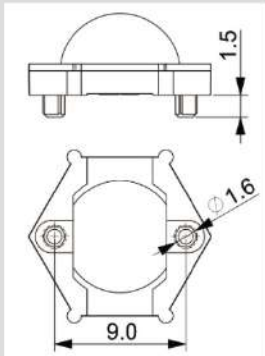
Lens Array with O-ring
MCPCB Board Available

Single & Module Lenses for 3030/3535

Single Lens



Material: PC



Part No.	Size	FWHM	cd/lm
L301-AB	12.5x6.5mm	30°	3.59
L321-AB	12.5x6.5mm	38°	2.05
L601-AB	12.5x5.58mm	60°	1.16
L609-AB	12.5x5.58mm	55°	1.21
L803-AB	12.5x4.87mm	82°	0.66
L806-AB	12.5x4.87mm	91°	0.50
L901-AB	12.5x3.93mm	138°	0.17
L902-ABH	12.5x4.35mm (Pin height:1.0mm)	147°	0.09

Lens Information



Material: PC

Part No.	Size	FWHM	cd/lm
L601-RXT	Φ10x5.56mm	60°	1.16
L609-RXT	Φ10x5.56mm	55°	1.21
L803-RXT	Φ10x4.85mm	82°	0.66
L806-RXT	Φ10x4.85mm	91°	0.50
L818F-CT	Φ10x4.96mm	74°	0.62
L901-RXT	Φ10x3.93mm	138°	0.17
L902-RXT	Φ10x3.93mm	162°	0.07

Single & Module Lenses for 3030/3535

Suitable Holder	Part No.	Size	Material	Fix Way
	C59-003	Φ32x2.6mm	PC	Screw(M1.6)
	C55-005	Φ49.8x2.95mm	PC	Screw(M2.5)
	C124-005	Φ49.8x3.4mm	PC	Screw(M2.5)
	C15-009	58x58x2.95mm	PC	Screw(M3.0)
	C60-009	58x58x3.25mm	PC	Screw(M3.0)
	C113-012	151x40x3.4mm	PC	Screw(M3.0)
	C122-012	151x40x3.7mm	PC	Screw(M3.0)
	C18-012	169x40.5x2.77mm	PC	Screw(M3.0)
	C123-027	178x53.7x2.95mm	PC	Screw(M3.0)
	C207-027	179.2x59.5x3.4mm	PC	Screw(M3.0)

*above holders work with Lxxx-RXT on page 3

Single & Module Lenses for 3030/3535

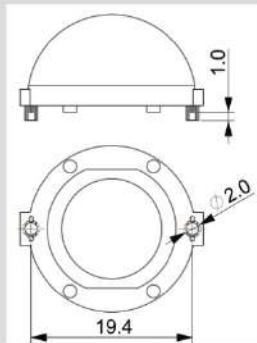
Single & Module Lenses for 5050

Single & Module Lenses for 5050

Single Lens



Material: PC



Part No.	Size	FWHM	cd/lm
L606-RLM	Φ20x11.77mm	66°	0.80
L805-RLM	Φ20x10.5mm	97°	0.52
L812-RLM	Φ20x7.65mm	127°	0.21
L904-RLM	Φ20x6.58mm	154°	0.10
L912F-RLM	Φ20x6.58mm	138°	0.07

Lens Information



Material: PC



Material: PC

Part No.	Size	FWHM	cd/lm
L625F-DT	Φ13x6.67mm	65°	1.02
L825F-DT	Φ13x4.62mm	94°	0.39
L914C-DT	Φ13x4.17mm	151°	0.12
L915F-DT	Φ13x4.17mm	102°	0.35
L606-RLT	Φ20x10.98mm	66°	0.80
L805-RLT	Φ20x9.71mm	97°	0.52
L812-RLT	Φ20x6.86mm	127°	0.21
L904-RLT	Φ20x5.8mm	158°	0.16
L912F-ET	Φ20x5.8mm	151°	0.09

Suitable Holder



Part No.	Size	FWHM	Fix Way
C76-004	58x58x3.04mm	PC	Screw(M3.0)
C107-004	58x58x3.74mm	PC	Screw(M3.0)

Single & Module Lenses for 3030/3535

Lens Information



Material: PC

Part No.	Size	FWHM	cd/lm
T217-RXT	Φ10x6.35mm	22°	4.89
T316-RXT	Φ10x6.35mm	34°	2.93
T516-RXT	Φ10x6.35mm	45°	1.67
T614-RXT	Φ10x6.35mm	59°	0.99
T811-RXT	Φ10x6.35mm	75°	0.68
T816H-CT	Φ10x6.35mm	83°	0.49

Suitable Holder



C89-001



C212-001



C20-003



C54-005



C33-009



C42-009



C117-012

Part No.	Size	Material	Fix Way
C89-001	Φ20x7.6mm	PC	Pin(2.5mm)
C19-001	Φ11.5x7.5mm	PC	3M Tape (for 3030)
C212-001	Φ11.5x7.5mm	PC	3M Tape / Pin (for 3030)
C212-01B	Φ11.5x7.5mm	PC (Black)	3M Tape / Pin (for 3030)
C214-001	Φ11.5x7.6mm	PC	3M Tape (for 3535)
C249-001	Φ11.5x7.6mm	PC	3M Tape (for 3737~4040)
C20-003	Φ32x7.65mm	PC	Screw(M1.6)
C54-005	Φ49.8x7.8mm	PC	Screw(M2.5)
C33-009	58x58x7.82mm	PC	Screw(M3.0)
C42-009	Φ45x7.8mm	PC	Pin(1.9mm)
C117-012	151x40x8.27mm	PC	Screw(M3.0)

Single & Module Lenses for 3030/3535

Single & Module Lenses for 3535/3737

Single & Module Lenses for 3535/3737

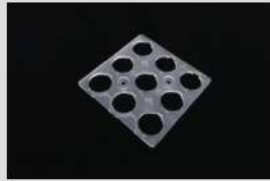
Lens Information



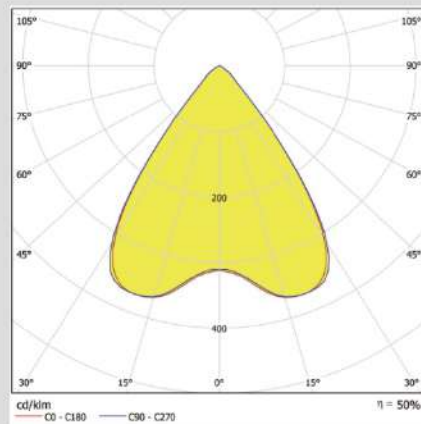
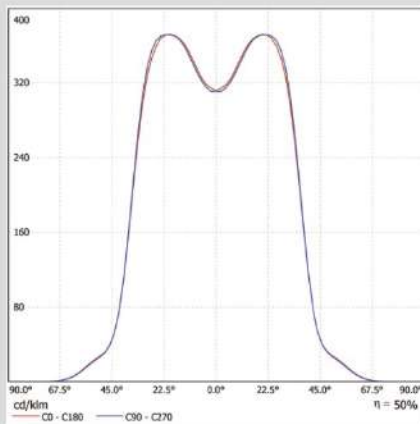
Material: PC

Part No.	Size	FWHM	cd/lm
T209-RET	Φ14x7mm	19°	6.38
T308-RET	Φ14x7mm	31°	3.39
T505-RET	Φ14x7mm	44°	1.49

Suitable Holder






Part No.	Size	Material	Fix Way
C193-001	Φ20x8.78mm	PC	Pin(2.5mm)
C211-001	Φ16x8.3mm	PC	3M Tape (for 3535)
C142-005	Φ49.8x8.78mm	PC	Screw(M2.5)
C118-009	59.5x59.5x8.78mm	PC	Screw(M3.0)



L818F-CT Distribution Curve

Single & Module Lenses for 5050

Lens Information	Part No.	Size	FWHM	cd/lm
 <p>Material: PC</p>	T212-RLT	Φ20x12.5mm	17°	9.40
	T306F-RLT	Φ20x12.5mm	27°	4.18
	T503-RLT	Φ20x12.5mm	39°	1.90

Suitable Holder	Part No.	Size	Material	Fix Way
 <p>C86-001</p>	C86-001	Φ22.5x13.2mm	PC	3M Tape (for 5050)
	C221-001	Φ22.5x13.2mm	PC	3M Tape (for 3535)
 <p>C72-004</p>	C221-01B	Φ22.5x13.2mm	PC (Black)	3M Tape (for 3535)
	C72-004	58x58x13.6mm	PC	Screw(M3.0)
 <p>C81-004</p>	C81-004	Φ60.5x14.6mm	PC	Screw(M2.0)

Single & Module Lenses for 5050/7070

Lens Information	Part No.	Size	FWHM	cd/lm
 <p>Material: PC</p>	T210-LMT	Φ25x11.6mm	18°	7.07
	T225-LMT	Φ25x11.6mm	18°	6.26
	T309-LMT	Φ25x11.6mm	33°	2.31
	T507-LMT	Φ25x11.6mm	42°	1.53
	T610-LMT	Φ25x11.6mm	51°	1.24
	T813-LMT	Φ25x11.6mm	84°	0.53

Suitable Holder	Part No.	Size	Material	Fix Way
 <p>C213-001</p>	C194-001	Φ28x12.8mm	PC	3M Tape / Pin
	C194-01B	Φ28x12.8mm	PC (Black)	3M Tape / Pin
	C213-001	Φ28x12.8mm	PC	3M Tape (for 7070)
	C238-001	Φ28x13.7mm	PC	3M Tape (for 7070)
	C143-004	70x70x12.85mm	PC	Screw(M3.0)

Multi-Lens Arrays for 3030/3535

Multi-Lens Arrays for 3030/3535

Multi-Lens Arrays for 5050

Array	Part No.	Size	Material	FWHM
	B75H-L301T-004	35x35x6.78mm	PC	33°
	B75H-L601T-004	35x35x5.88mm	PC	49°
	B75H-L803T-004	35x35x5.17mm	PC	85°
	B75H-L902T-004	35x35x4.27mm	PC	147°
	B77-T217T-007	Φ35x8.07mm	PC	22°
	B77-T516T-007	Φ35x8.07mm	PC	45°
	B94H-L902T-009	58x58x4.25mm	PC	147°
	B153-T516T-025	72x72x10.2mm	PC	45°
	B153-T816H-025	72x72x10.2mm	PC	83°
	AB59-T316T-012	121x54x9.5mm	PC	34°
	AB59-T614T-012	121x54x9.5mm	PC	59°
	AB59H-L803T-012	121x54x6.55mm	PC	85°

IP solution with O-ring

Multi-Lens Arrays for 5050

Array	Part No.	Size	Material	FWHM
	B154-L606T-004	50x50x11.07mm	PC	66°
	B154-L805T-004	50x50x9.8mm	PC	97°
	B154-L904T-004	50x50x5.88mm	PC	158°

Multi-Lens Arrays for 5050/7070

Array	Part No.	Size	Material	FWHM
	AB224-T610T-012	173x71.4x13.45mm	PC	51°
	AB224-T813T-012	173x71.4x13.45mm	PC	84°
IP solution with O-ring				

Street Lighting Lens for 3030/3535

Single Lens	Part No.	Size	Type	cd/lm
 	L709-AB	12.5x4.05mm	Medium, Type I	0.79
	L701-AB	12.5x4.05mm (Pin height: 1.6mm)	Short, Type I	0.60
	L712-AB	12x4.7mm	Short, Type II	0.76
	L713-AB	12x4.7mm	Short, Type III	0.64
	L718-AB	12x4.7mm	Short, Type IV	0.48
	L901-AB	12.5x3.93mm	Very Short, Type V	0.43
	L902-ABH	12.5x4.05mm (Pin height: 1.0mm)	Very Short, Type V	0.35


Material: PC

Asymmetry

Street Lighting Lens for 5050

Lens Information	Part No.	Size	Type	cd/lm
	L751C-DT	Φ13x4.17mm	Short, Type I	0.52
	L753C-DT	Φ13x4.17mm	Short, Type II	0.42
	L755C-DT	Φ13x4.17mm	Short, Type III	0.43
	L914C-DT	Φ13x4.17mm	Short, Type V	0.11
	L915F-DT	Φ13x4.17mm	Very Short, Type V	0.35

Material: PC

Single Lens	Part No.	Size	Type	cd/lm
 	L716-RLM	Φ20x6.58mm	Short, Type I	0.74
	L725-RLM	Φ20x6.58mm	Medium, Type I	0.57
	L731-RLM	Φ20x6.58mm	Medium, Type II	0.61
	L732-LM	Φ22x7.41mm	Medium, Type III	0.55
	L740-RLM	Φ20x6.58mm	Medium, Type IV	0.46
	L904-RLM	Φ20x6.58mm	Short, Type V	0.10

Material: PC

Asymmetry

Street Lighting Arrays for 3030/3535

Street Lighting Arrays for 3030/3535

Array



Part No.	Size	Type	Material
B75H-L709T-004	35x35x4.27mm	Medium, Type I	PC
B75-L712T-004	35x35x5.4mm	Short, Type II	PC
B75-L713T-004	35x35x5.4mm	Short, Type III	PC
B75-L718T-004	35x35x5.4mm	Short, Type IV	PC
B75H-L902T-004	35x35x4.27mm	Short, Type V	PC

Asymmetry

Array



Part No.	Size	Type	Material
B94H-L709T-009	58x58x4.27mm	Medium, Type I	PC
B94-L739T-009	58x58x3.95mm	Short, Type I	PC
B94-L712T-009	58x58x5.4mm	Short, Type II	PC
B94-L713T-009	58x58x5.4mm	Short, Type III	PC
B94-L718T-009	58x58x5.4mm	Short, Type IV	PC
B94H-L902T-009	58x58x4.27mm	Short, Type V	PC

Asymmetry

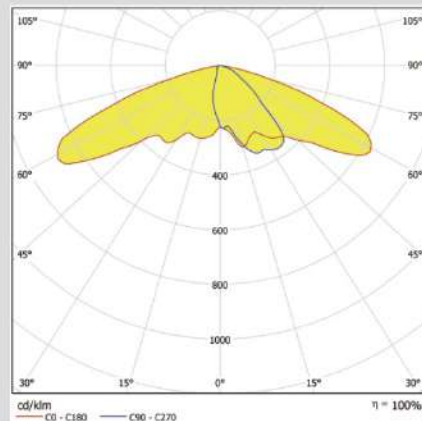
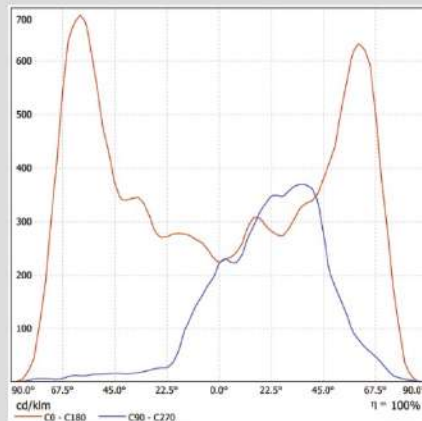
Array



Part No.	Size	Type	Material
AB59H-L709T-012	121x54x5.65mm	Medium, Type I	PC
AB59-L712T-012	121x54x6.8mm	Short, Type II	PC
AB59-L713T-012	121x54x6.8mm	Short, Type III	PC

IP solution with O-ring

Asymmetry



L712-AB Distribution Curve

The FWHM & cd/lm is for reference only, the real data should be measured as final

Street Lighting Arrays for 5050

Street Lighting Arrays for 5050

Array



Part No.	Size	Type	Material
B154-L716T-004	50x50x5.88mm	Short, Type I	PC
B154-L742T-004	50x50x5.88mm	Medium, Type I	PC
B154-L731T-004	50x50x5.88mm	Medium, Type II	PC
B154-L732F-004	50x50x8.62mm	Medium, Type III	PC
B154-L741T-004	50x50x5.88mm	Medium, Type III	PC
B154-L740T-004	50x50x5.88mm	Medium, Type IV	PC
B154-L904T-004	50x50x5.88mm	Short, Type V	PC

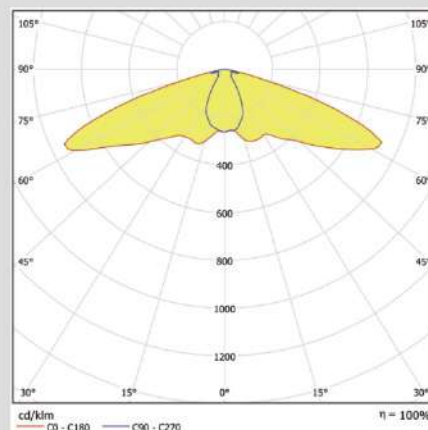
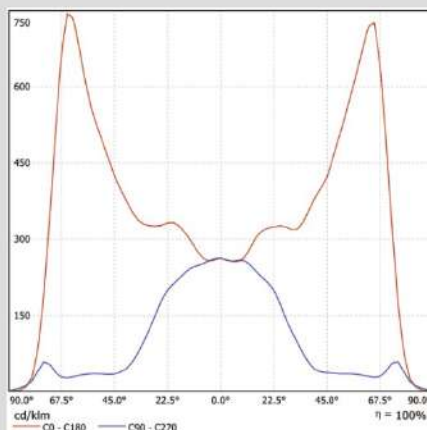
Asymmetry

Array



Part No.	Size	Type	Material
AB224-L716T-012 Rotate 90° Available	173x71.4x7mm	Short, Type I	PC
AB224-L742T-012 Rotate 90° Available	173x71.4x7mm	Medium, Type I	PC
AB224-L731T-012 Rotate 90° Available	173x71.4x7mm	Medium, Type II	PC
AB224-L741T-012 Rotate 90° Available	173x71.4x7mm	Medium, Type III	PC
AB224-L740T-012 Rotate 90° Available	173x71.4x7mm	Medium, Type IV	PC
AB224-L904T-012	173x71.4x7mm	Short, Type V	PC
AB124H-L732F-012	173x71.4x10.27mm	Medium, Type III	PC

IP solution with O-ring* *Asymmetry



L716-RLM Distribution Curve


The FWHM & cd/lm is for reference only, the real data should be measured as final

Landscape Lighting Lens

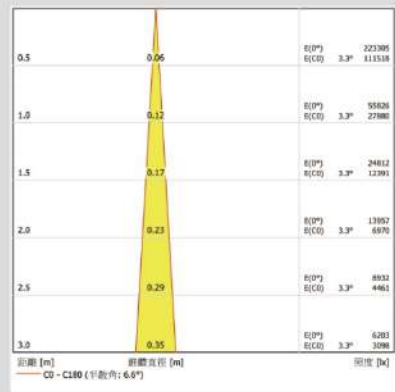
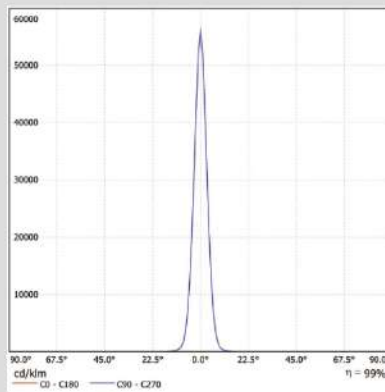
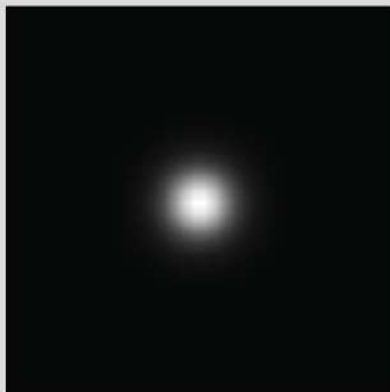
Lens Information	Part No.	Size	FWHM	cd/lm
	T008C-HT	Φ35x20.2mm	7°	55.83

Material: PC

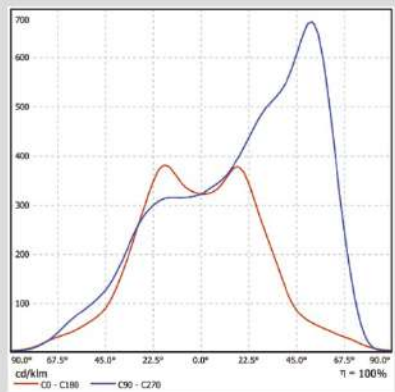
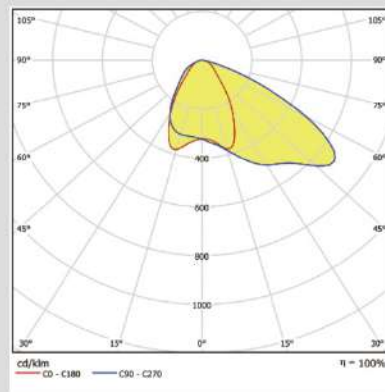
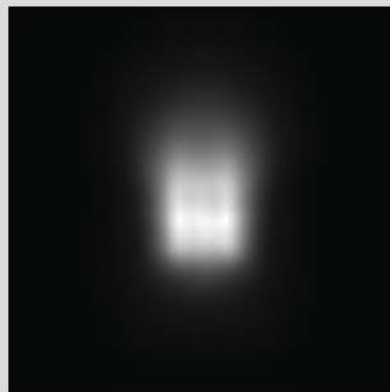
Suitable Holder	Part No.	Size	Material	Fix Way
	C251-001	Φ37.8x22mm	PC	Pin/Screw(M3.0)

Single Lens	Part No.	Size	FWHM	Fix Way
	B181-T212T-001	22.5x22.5x13.85mm	13°	3M Tape/Pin
	B181-T306F-001	22.5x22.5x13.85mm	27°	3M Tape/Pin
	B181-T503T-001	22.5x22.5x13.85mm	39°	3M Tape/Pin

Material: PC



T008C-HT Distribution Curve



L735-AB Distribution Curve

Wall Washer

Wall Washer

Lens Information



Material: PC

Part No.	Size	FWHM	cd/lm
T209W-RET	Φ14x7mm	20°x43°	2.82
T209W2-RET	Φ14x7mm	14°x58°	3.14
T124W-FT	Φ25x11.3mm	21°x 38°	2.91
T225W-FT	Φ25x11.3mm	16°x56°	2.97
T737W-FT	Φ25x11.15mm	19°x56°	2.13
T738F-FT	Φ25x11.5mm	10°x25°	3.98
T738L-FT	Φ25x11.5mm	17°x52°	2.05
T738W-FT	Φ25x11.5mm	35°x60°	1.39

Suitable Holder



C194-001

Part No.	Size	Material	Fix Way
C194-001	Φ28x12.8mm	PC	3M Tape / Pin
C194-01B	Φ28x12.8mm	PC (Black)	3M Tape / Pin
C213-001	Φ28x12.8mm	PC	3M Tape (for 7070)
C238-001	Φ28x13.7mm	PC	3M Tape (for 7070)

Lens Information



Material: PC





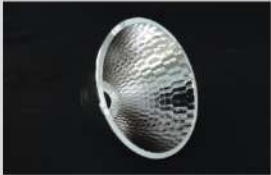

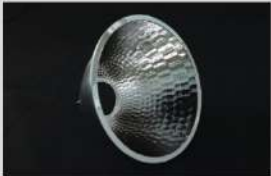


Part No.	Size	FWHM	cd/lm
T743T-LJ	Φ46.5x13.78mm	34°x77°	1.27
T122W-LJ	Φ46.5x13.78mm	17°x50°	2.82
T756T-PJ	Φ65x16.58mm	26°x62°	1.43

*work with the holder on page 19

COB-Reflectors

COB-Reflectors

Reflector Information

	Part No.	Size	FWHM	cd/lm	LES
	R114-22	Φ49.6x30mm	14°	9.21	<Φ14mm
	R214-22	Φ49.6x30mm	22°	4.96	<Φ14mm
	R314-22	Φ49.6x30mm	29°	2.52	<Φ14mm
	R112-22	Φ82x52.81mm	8°	26.33	<Φ14mm
	R213-22	Φ82x52.81mm	16°	7.77	<Φ14mm
	R112-34	Φ82x52.81mm	8°	26.33	<Φ14mm
	R213-34	Φ82x52.81mm	16°	7.77	<Φ14mm
	R312-34	Φ82x52.81mm	28°	3.49	<Φ28.5mm
	R508-34	Φ82x52.81mm	34°	2.49	<Φ30mm

Material: PC+AL Coating

*work with the holder on page 18

COB-Reflectors

Reflector Information



Part No.

Size

FWHM

cd/lm

LES

R115-34

Φ110x67.8mm

14°

7.90

<Φ30mm



R215-34

Φ110x67.8mm

24°

3.88

<Φ30mm



R315-34

Φ110x67.8mm

36°

2.25

<Φ30mm



R515-34

Φ110x67.8mm

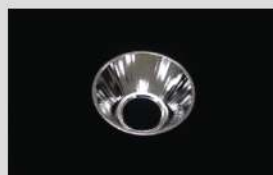
45°

1.69

<Φ30mm

Material: PC+AL Coating

*work with the holder on page 18



R119-JM

Φ49x20.8mm

14°

6.64

<Φ20mm



R220-JM

Φ49x20.8mm

22°

3.25

<Φ20mm



R519-JM

Φ49x20.8mm

39°

1.58

<Φ20mm



R619-JM

Φ49x20.8mm

76°

0.77

<Φ20mm

Material: PC+AL Coating

*work with the holder on page 19

COB-Reflectors

COB-Lens

COB-Lens

Lens Information

	Part No.	Size	FWHM	cd/lm	LES
	T122-LJ	Φ46.5x13.78mm	11°	14.39	<Φ21.85mm
	T122F-LJ	Φ46.5x13.78mm	16°	8.90	<Φ21.85mm
	T222F-LJ	Φ46.5x13.78mm	19°	6.08	<Φ21.85mm
	T322F-LJ	Φ46.5x13.78mm	33°	2.80	<Φ21.85mm
	T522H-LJ	Φ46.5x13.78mm	43°	1.70	<Φ21.85mm
	T622H-LJ	Φ46.5x13.78mm	63°	0.86	<Φ21.85mm
	T822H-LJ	Φ46.5x13.78mm	78°	0.60	<Φ21.85mm
	T126C-PJ	Φ65x16.58mm	12°	10.32	<Φ25mm
	T126F-PJ	Φ65x16.58mm	15°	7.22	<Φ25mm
	T226H-PJ	Φ65x16.58mm	24°	6.08	<Φ25mm

Material: PC

*work with the holder on page 19

COB-Holder(Gen1)

Product	Part No.	Diameter	Thickness	LED Size	LES
	H01-1022C	27.5mm	2mm	15.85x15.85mm	9mm
	H01-1434C	42mm	2mm	17.85x17.85mm	12mm
	H01-2134C	42mm	2mm	24x24mm	19.2mm
	H01-2534C	47mm	2mm	27.35x27.35mm	23mm
	H01-0822S	27.5mm	2mm	13.5x13.5mm	6.3mm
	H01-1634S	42mm	2mm	17.85x17.85mm	14mm
	H02-0922S	27.5mm	1.7mm	15x12mm	7mm
	H02-1434S	42mm	1.7mm	19x16mm	12mm
	H02-1734S	42mm	1.7mm	24x20mm	16.2mm
	H02-2534S	47mm	1.7mm	28x28mm	23mm

Material: PBT


COB-Holder(Gen1)

COB-Holder(Gen2)

COB-Holder(Gen2)

Product	Part No.	Diameter	Thickness	LED Size	LES
	H01-13JM	36mm	3.2mm	13.5x13.5mm	6.3mm
	H01-15JM	36mm	3.2mm	15.85x15.85mm	9mm
	H01-18JM	36mm	3.2mm	17.85x17.85mm	12mm
	H02-10JM	36mm	3.2mm	15x12mm	9mm
	H02-18JM	43mm	3.2mm	24x20mm	16.2mm
	H03-12JM	36mm	3.2mm	13.5x13.5mm	10.2mm
	H03-15JM	36mm	3.2mm	19x19mm	13.2mm
	H05-17JM	36mm	3.2mm	19x19mm	14.6mm
	H04-06JM	36mm	3.2mm	19x16mm	12mm
	H05-TM19JM	42mm	6.6mm	28.6x23.3mm	19mm

Material: PBT

Lens Information	Part No.	Size	FWHM	cd/lm
 Material: Glass	LG03C-CT	Φ10x5mm	10°	7.64
	LG05C-DT	Φ15x7.5mm	13°	17.80
	LG06C-FT	Φ21.6x11mm	8°	23.15
 Material: Quartz	LQ03C-CT	Φ10x5mm	10°	7.64
	LQ06C-FT	Φ21.6x11mm	8°	23.15
 Material: Silicone	LS03C-CT	Φ10x5mm	8°	7.64

UV Lens

Hybrid Reflectors

Suitable Holder	Part No.	Size	Material	Fix Way
	AC246	44.5x31.5x7.5mm	PC/Metal	Screw (M3.0)
	AM01	Φ16x8.5mm	AL & Glass (Black)	Screw Thread

*work with 10mm UV Lens






Hybrid Reflectors

Reflector Information	Part No.	Size	FWHM	cd/lm
	R004-RL	Φ54x22.3mm	6°	41.38
	R108-RL	Φ54x22.3mm	10°	19.77
	AR007-RL	Φ46.5x18.3mm	8°	24.26

Material: PC+AL Coating

*work with H01-0822S, H01-1634S, H02-0922S on page 18

Other Application

Single Lens	Part No.	Size	FWHM	cd/lm
 Material: PC	L719-ABH	12.5x5.27mm	53°x80°	0.92
	L749F-AB	12x4.7mm	56°x87°	0.90
	L735-AB	12x4.7mm	60°x152°	0.91
	L748C-AB	12.5x3.95mm	89°x117°	0.58
	L759F-DT	Φ13x4.62mm	65 x102°	0.69
 Material: PC	T901-RX	Φ23x18.95mm	138°	0.14
 Material: PMMA	L604-NC	Φ28.7x7.8mm	30°-75°	1.51-6.98
	L604-NF	Φ28.7x7.8mm	30°-75°	1.51-6.98
 Material: PC	T106-RL	Φ40x17.63mm	9°	18.09
 Material: PC	L912F-RLM	Φ20x6.58mm	138°	0.07

Single Lens	Part No.	Dimension	FWHM	Gain
 Material: PMMA	L013C-DT	11.5mm	8°	43.52
	L013F-DT	11.5mm	8°	43.52

Nomenclature Principle

Lens (Old)

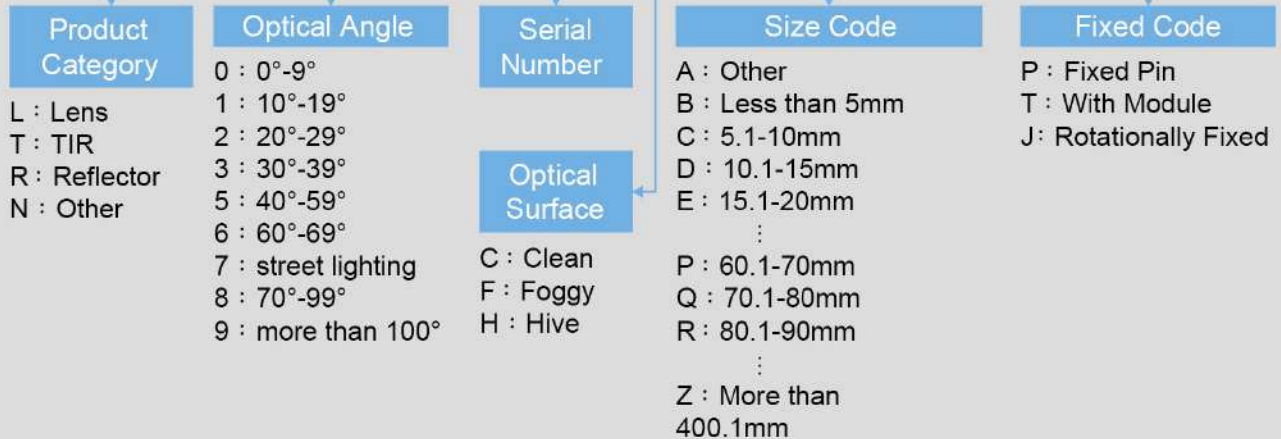
X X XX - XX (X)



Nomenclature Principle

Lens (New)

X X X X (X) - X X (X)



Module

A X XXX - XXXXXX - XXX



The shape of Light



嵐雅光學股份有限公司
B&M OPTICS CO., LTD

TEL/ 886-4-25679905 FAX/ 886-4-25679915
marketing@bmoptics.com.tw

台中市大雅區科雅西路29號211室

Rm.211, No.29, Keya W. Rd., Daya Dist., Taichung City 428, Taiwan(R.O.C)

