SunLumin®

Your Optical Solution Partner

Content

Why Sunlumin

We specialize in research and development, manufacturing, and sales of LED lighting secondary optics for road / high-bay / office linear / architecture lighting;

Core advantages:
light distribution design accuracy/beam pattern stability /batch consistency / European brand substitution
We care for 'light distribution results'

Pre-sales technical support
Rich experience in optical design of street lights for Europe (EN13201) ,
North America (ANSI C136.18), Australia (AS/ NZS 1158.6),
Brazil(INMETRO NRB 5101), India (NHAI), Russia, Turkey (Tedas) etc.

Expertise in professional sport light projects
Ultra-small angle optical design high accuracy
Low UGR, high efficiency Linear lens design
Base on housing or heat sink, we can provide lens mechanical design and offer lens 3D files
We offer service for verifying lighting solutions particular to DIALUX / AGI32

Technique Support
 Website Online datasheet /LDF/2D drawing;

Online service support to request further 3D file, new led test, simulation or other support;

Technique sales support;
Local engineer sales representative support (for some market available, refer to contact us information)

Contact Us

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Common Beam Type Abbreviations

Name	Beam Type
30, 60, 90 etc.	beam angle in degrees
A	Asymmetric
DA	Double asymmetric
N	Narrow
M	Medium
W	Wide
T2S-CA, CB, CC etc.	T2S cutoff type A/B/C etc.
T2S-SA, SB, SC etc.	T2S semicutoff type A/B/C etc.
T2M-NA, NB, NC etc.	T2M Noncutoff type A/B/C etc.
FR01	Railway Light

Street & Area Lighting

A MAXWELL-4_3535	**H** MAXWELL-12	**O** AMBER-IP-12	**V** FARADAY-64
B MAXWELL-6_3535	**I** AMBER-8	**P** FRANKLIN-12	**X** FARADAY-96
C MAXWELL-8_3535	**J** MAXWELL-16	**Q** FRANKLIN-24	**Y** PLANCK
D MAXWELL-4	**K** MAXWELL-24	**R** FERMI-8	**Z** RUTHERFORD
E MAXWELL-6	**L** TESLA-2X3	**S** FERMI-24	**AA** RUTHERFORD-G2
F MAXWELL-8	**M** TESLA-IP-24	**T** FERMI-27/46	
G MAXWELL-10	**N** AMBER-6	**U** FARADAY-42	

10°
D

15°
A, J, K

20°
J, K

30°
D, E, F, J, K, P, Q, V, X

40°
J

45°
K

60°
A, C, D, E, F, G, H, J, K, M, P, Q, N, R, U, V, W, X, Y

90°
C, D, E, F, G, H, J, K, M, O, P, Q, N, R, U, V, W, X

120°A
D

120°B
F, K

120°C
E, R

140°
E

15X60
F

30X48
F

30X70
X

30X100
D

35X95
W

45X90
J, X

50X50
A

60X90
D, E

70X120
V, X

90X120
V, X

VSM
F, Q

T5
E, J

FR01
A

A45
K, J

A50
F, J

PX
D
Double saymm, pedestrian crossings, left side traffic

T1S
H, J
IESNA Type I (short), less thanthe pole height.

T2
F
IESNA Type II (medium)

T2S-CA
J
Excellent longitudinal luminanceuniformity fulfilling EN13201 M-class requirements . High brightness.

T2S-CB
A, C, D, P
IESNA Type II (short) beam

T2S-CC
B, I, F, V
Excellent longitudinal luminance uniformity fulfilling EN 13201 M-class requirements and Perfectly Meets EN 13201 M3 class.

T2S-CD
D, G, Z
IESNA Type II (short) beam with good longitudinal luminance uniformity fulfilling EN13201M-class requirements. with added house sidebacklight

Street & Area Lighting

A MAXWELL-4_3535		**H** MAXWELL-12		**O** AMBER-IP-12		**V** FARADAY-64
B MAXWELL-6_3535		**I** AMBER-8		**P** FRANKLIN-12		**X** FARADAY-96
C MAXWELL-8_3535		**J** MAXWELL-16		**Q** FRANKLIN-24		**Y** PLANCK
D MAXWELL-4		**K** MAXWELL-24		**R** FERMI-8		**Z** RUTHERFORD
E MAXWELL-6		**L** TESLA-2X3		**S** FERMI-24		**AA** RUTHERFORD-G2
F MAXWELL-8		**M** TESLA-IP-24		**T** FERMI-27/46		
G MAXWELL-10		**N** AMBER-6		**U** FARADAY-42		

T2S-CE
A

IESNA Type II (short) beam

T2S-CF
H

IESNA Type II (Short) beam applicable for EN13021 P-class standardfor pedestrian lighting and bicycle paths.

T2S-NA
Y

Applicable for European P-class standard pedestrian lighting and M-class roads

T2M-CA
D, M, P, X

IESNA Type II (medium) cutoff with minimized house side backlight.

T2M-CB
E, J, K, L, N, Q, R, V, H

IESNA Type II (medium) beam for EN13021 M-class standard where road width is less than the pole height. added house side backlight.

T2M-CC
K, S, AA

IESNA Type II (medium) beam for EN13021 M-class standard where road width is less than the pole height.

T2M-CD
D, J, P, T

IESNA Type II (medium) beam

T2M-CE
E, N, R

Ideal for EN13201 M-class and C-class roads. Soft wide beam with good illuminance uniformity.

T2M-SC
G, H

En13021 M-class standard where road width is less than the pole heightwith added house side backlight

T2M-SD
J

Suitable for roadway lighting in Australia

T2M-NA
B

IESNA Type II (medium) beam for roads that are equal to or wider than mounting height.

T3S
Q

IESNA Type III (short)

T3M-SB
G

IESNA Type III-M Cutoff beam with added house side backlight.

T3M-CA
D, J, K, P, R, X

IESNA Type III (medium) beam with minimized house side backlight.

T3M-CB
E, F

Excellent longitudinal luminanceuniformity for EN13201 M-class where road width is wider than the pole heightadded house side backlight.

T3M-NA
B

IESNA Type III (medium) beam for roads that are equal to or wider than mounting height.

T4
Q, F, I

Wide IESNA Type IV forward-throw beam for wide area lighting like car parks. Fulfilling EN 13201 C-class requirements.

T4M-CA
D

IESNA Type IV (medium)

DWC
D, Q

Universal road lighting (Typ. IESNA Type III Medium)

ME
Q

Excellent longitudinal luminance uniformity fulfilling EN13201 M-class requirements

SCL
C, Q

Type II/III (medium) beam for very wide pole to pole distances. Ideal forEN13201 P-class standard pedestrian lighting and M-class roads.

LN
B, C

Beam for EN13201 M-class requirements with high poles or where road width is equal or less the pole height.

LN 2
C

Beam for EN13201 P-class and M-class requirements with high poles or where road width is less than the pole height.

DN
A

Beam for area lighting with shorter illumination distances

Street & Area Lighting

MAXWELL

50 x 50 mm modular solutions. The most versatile modular product family especially designed for street and area lighting, but also suitable for wide range of other applications.

MAXWELL-4_3535

50 x 50 mm 2X2 arrays optimized for 3535 size LED packages.The position of LED and the positioning column meet the EU ZHAGA standard.

Name		Dimensions	Led Qty	Typ.FWHM	Typ.Eff.
MAXWELL-4-15_3535		50X50	4	15	91
MAXWELL-4-50X50_3535		50X50	4	50X50	94
MAXWELL-4-60_3535		50X50	4	60	94
MAXWELL-4-FR01_3535		50X50	4	Asymmetric	91
MAXWELL-4-T2S-CB_3535		50X50	4	Asymmetric	95
MAXWELL-4-T2S-CE_3535		50X50	4	Asymmetric	94
MAXWELL-4-DN_3535	NEW	50X50	4	Asymmetric	95

MAXWELL-4_3535

MAXWELL-6_3535

50 x 50 mm 2X3 arrays optimized for 3535 size LED packages.

Name		Dimensions	Led Qty	Typ.FWHM	Typ.Eff.
MAXWELL-6-T2S-CC_3535		50X50	6	Asymmetric	95
MAXWELL-6-T2M-NA_3535	NEW	50X50	6	Asymmetric	92
MAXWELL-6-T3M-NA_3535	NEW	50X50	6	Asymmetric	89
MAXWELL-6-LN_3535	NEW	50X50	6	Asymmetric	95

MAXWELL-6_3535

MAXWELL-8_3535

50 x 50 mm 8 lens (3+2+3) arrays optimized for 3535 size LED packages. The position of LED and the positioning column meet the EU ZHAGA standard.

Name		Dimensions	Led Qty	Typ.FWHM	Typ.Eff.
MAXWELL-8-60_3535*/**		50X50	8	60	94
MAXWELL-8-90_3535*/**		50X50	8	90	94
MAXWELL-8-T2S-CB_3535***		50X50	8	Asymmetric	94
MAXWELL-8-LN_3535***	NEW	50X50	8	Asymmetric	95
MAXWELL-8-LN2_3535	NEW	50X50	8	Asymmetric	92
MAXWELL-8-SCL_3535	NEW	50X50	8	Asymmetric	94

* HV models are available, with different positioning pin, suitable for high voltage circuit design.

** PC/PMMA material available.

*** PMMA/PMMA HT material available.

MAXWELL-8_3535

MAXWELL-4

50 x 50 mm 2X2 arrays optimized for flat 5050 size LED packages.The position of LED and the positioning column meet the EU ZHAGA standard.

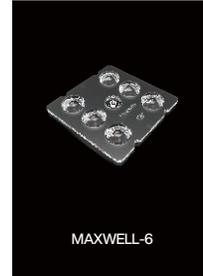| Name		Dimensions	Led Qty	Typ.FWHM	Typ.Eff.
SPORT-4-10	NEW	50X50	4	10	93
MAXWELL-4-30		50X50	4	30	91
MAXWELL-4-60		50X50	4	60	93
MAXWELL-4-90		50X50	4	90	93
MAXWELL-4-120A		50X50	4	120	93
MAXWELL-4-30X100		50X50	4	30X100	93
MAXWELL- 4-60X90		50X50	4	60X90	92
MAXWELL-4-T2M-CA		50X50	4	Asymmetric	92
MAXWELL-4-T2M-CD	NEW	50X50	4	Asymmetric	96
MAXWELL-4-T3M-CA		50X50	4	Asymmetric	93
MAXWELL-4-T4M-CA		50X50	4	Asymmetric	93
MAXWELL-4-PX	NEW	50X50	4	Asymmetric	93
MAXWELL-4-DWC	NEW	50X50	4	Asymmetric	92

MAXWELL-4

Street & Area Lighting

MAXWELL-6
50 x 50 mm 2X3 arrays for flat 5050 size LED packages.

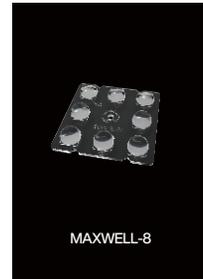| Name		Dimensions	Led Qty	Typ.FWHM	Typ.Eff.
MAXWELL-6-30		50X50	6	30	96
MAXWELL-6-60		50X50	6	60	96
MAXWELL-6-90		50X50	6	90	96
MAXWELL-6-120C		50X50	6	120	90
MAXWELL-6-140		50X50	6	140	90
MAXWELL-6-T5		50X50	6	T5	93
MAXWELL-6-T2M-CB		50X50	6	Asymmetric	94
MAXWELL-6-T2M-CE	NEW	50X50	6	Asymmetric	90
MAXWELL-6-T3M-CB	NEW	50X50	6	Asymmetric	90

MAXWELL-6

MAXWELL-8
50 x 50 mm 8 lens (3+2+3) arrays for up to flat 5050 size LED packages. The position of LED meet the EU ZHAGA standard.

Name		Dimensions	Led Qty	Typ.FWHM	Typ.Eff.
MAXWELL-8-30**		50X50	8	30	93
MAXWELL-8-60**		50X50	8	60	95
MAXWELL-8-90**		50X50	8	90	96
MAXWELL-8-120B***		50X50	8	120	95
MAXWELL-8-15X60	NEW	50X50	8	15X60	95
MAXWELL-8-30X48	NEW	50X50	8	30X48	95
MAXWELL-8-T2***	NEW	50X50	8	Asymmetric	91
MAXWELL-8-T2S-CC***		50X50	8	Asymmetric	95
MAXWELL-8-T3M-CB	NEW	50X50	8	Asymmetric	93
MAXWELL-8-T4***		50X50	8	Asymmetric	83
MAXWELL-8-A50		50X50	8	Asymmetric	89
MAXWELL-8-VSM	NEW	50X50	8	VSM	90

**PC/PMMA/PMMA HT material available.

***PMMA/PMMA HT material available.

MAXWELL-8

MAXWELL-10
50 x 50 mm 10 lens (2X4+2) arrays optimized for flat 5050 size LED packages. Second generation lens.

Name		Dimensions	Led Qty	Typ.FWHM	Typ.Eff.
MAXWELL-10-60	NEW	50X50	10	60	93
MAXWELL-10-90	NEW	50X50	10	90	93
MAXWELL-10-T2S-CD	NEW	50X50	10	Asymmetric	93
MAXWELL-10-T2M-SC		50X50	10	Asymmetric	92
MAXWELL-10-T3M-SB		50X50	10	Asymmetric	92
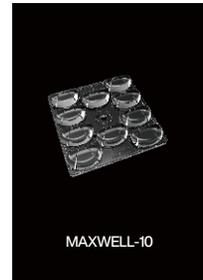
MAXWELL-10

MAXWELL-12
50 x 50 mm 12 lens (2X5+2) arrays optimized for flat 5050 size LED packages.

Name		Dimensions	Led Qty	Typ.FWHM	Typ.Eff.
MAXWELL-12-60	NEW	50X50	12	60	94
MAXWELL-12-90	NEW	50X50	12	90	94
MAXWELL-12-T1S	NEW	50X50	12	Asymmetric	93
MAXWELL-12-T2S-CF	NEW	50X50	12	Asymmetric	93
MAXWELL-12-T2M-SC**		50X50	12	Asymmetric	97
MAXWELL-12-T2M-CB	NEW	50X50	12	Asymmetric	92

**PC/PMMA material available.
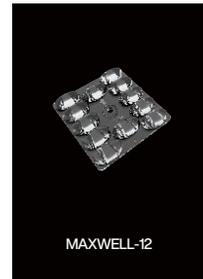
MAXWELL-12

Street & Area Lighting

MAXWELL-16
50 x 50 mm 4X4 arrays optimized for 3030 size LED packages. The position of LED and the positioning column meet the EU ZHAGA standard.

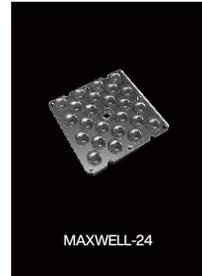| Name	Dimensions	Led Qty	Typ.FWHM	Typ.Eff.
MAXWELL-16-15	50X50	16	15	93
MAXWELL-16-20	50X50	16	20	93
MAXWELL-16-30	50X50	16	30	95
MAXWELL-16-40	50X50	16	40	93
MAXWELL-16-60	50X50	16	60	93
MAXWELL-16-90	50X50	16	90	93
MAXWELL-16-45X90	50X50	16	45X90	93
MAXWELL-16-T5	50X50	16	T5	93
MAXWELL-16-A45	50X50	16	Asymmetric	94
MAXWELL-16-A50	50X50	16	Asymmetric	95
MAXWELL-16-T1S	50X50	16	Asymmetric	93
MAXWELL-16-T2S-CA	50X50	16	Asymmetric	93
MAXWELL-16-T2M-CB	50X50	16	Asymmetric	93
MAXWELL-16-T2M-CD	50X50	16	Asymmetric	96
MAXWELL-16-T2M-SD	50X50	16	Asymmetric	90
MAXWELL-16-T3M-CA	50X50	16	Asymmetric	95

MAXWELL-16

MAXWELL-24
50 x 50 mm 24 lens arrays optimized for 3030 size LED packages.

Name	Dimensions	Led Qty	Typ.FWHM	Typ.Eff.
MAXWELL-24-15	50X50	24	15	92
MAXWELL-24-20	50X50	24	20	94
MAXWELL-24-30	50X50	24	30	92
MAXWELL-24-45	50X50	24	45	94
MAXWELL-24-60	50X50	24	60	95
MAXWELL-24-90	50X50	24	90	93
MAXWELL-24-120B	50X50	24	120	92
MAXWELL-24-A45	50X50	24	Asymmetric	92
MAXWELL-24-T2M-CC	50X50	24	Asymmetric	96
MAXWELL-24-T2M-CB	50X50	24	Asymmetric	93
MAXWELL-24-T3M-CA	50X50	24	Asymmetric	94

MAXWELL-24

PLANCK-16
Economic version lens module for street, area and industry lighting, 100X60mm, IP66, 16 lens module, Up to 3535 LEDs.

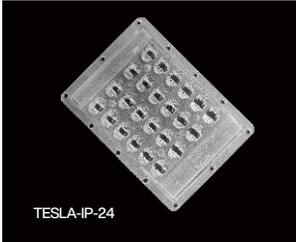| Name	Dimensions	Led Qty	Typ.FWHM	Typ.Eff.
PLANCK-16-60	100X60	16	Asymmetric	92
PLANCK-16-T2S-NA	100X60	16	Asymmetric	92

PLANCK-16

TESLA

TESLA-2X3
62 x 30 mm modular solutions. 2X3 arrays for up to 5050 size LED packages.

Name	Dimensions	Led Qty	Typ.FWHM	Typ.Eff.
TESLA-2X3-T2M-CB	62X30	6	Asymmetric	95

TESLA-2X3

Street & Area Lighting

TESLA-IP-24

AMBER-IP-12

FRANKLIN-12

TESLA-IP-24
135X100mm; IP66 with a silicone gasket; 24 lens arrays for 5050 size LED packages

Name		Dimensions	Led Qty	Typ.FWHM	Typ.Eff.
TESLA-IP-24-60		135X100	24	60	93
TESLA-IP-24-90		135X100	24	90	93
TESLA-IP-T2M-CA		135X100	24	Asymmetric	93

AMBER
Amber color material eliminate blue light

AMBER-6
2x3 Lens arrays with 5050 size LED package; amber color material eliminate blue light.

Name		Dimensions	Led Qty	Typ.FWHM	Typ.Eff.
AMBER-6-60	NEW	50X50	6	60	76
AMBER-6-90	NEW	50X50	6	60	81
AMBER-6-T2M-CB	COMING	50X50	6	Asymmetric	81
AMBER-6-T2M-CE	NEW	50X50	6	Asymmetric	68

AMBER-8
50 x 50 mm 8 lens (3+2+3) arrays for up to flat 5050 size LED packages. The position of LED meet the EU ZHAGA standard

Name		Dimensions	Led Qty	Typ.FWHM	Typ.Eff.
AMBER-8-T2S-CC	NEW	50X50	8	Asymmetric	68
AMBER-8-T4	NEW	50X50	8	Asymmetric	62

AMBER-IP-12
173 x 71 mm ingress protected 2X6 arrays with a silicone gasket for up to flat 5050 size LED packages. Meet the EU ZHAGA standard.

Name		Dimensions	Led Qty	Typ.FWHM	Typ.Eff.
AMBER-IP-12-90		173X71	12	90	80

FRANKLIN
173 x 71 mm modular solutions. IP66 with silicone gasket; The most versatile modular product family especially designed for street lighting and area lighting, but also suitable for wide range of other applications.

FRANKLIN-12
173 x 71 mm, 2X6 arrays for up to flat 5050 size LED packages. Meet the EU ZHAGA standard.

Name	Dimensions	Led Qty	Typ.FWHM	Typ.Eff.
FRANKLIN-12-30	173X71	12	30	95
FRANKLIN-12-60	173X71	12	60	95
FRANKLIN-12-90	173X71	12	90	95
FRANKLIN-12-T2S-CB	173X71	12	Asymmetric	93
FRANKLIN-12-T2M-CA	173X71	12	Asymmetric	93
FRANKLIN-12-T2M-CD	173X71	12	Asymmetric	90
FRANKLIN-12-T3M-CA	173X71	12	Asymmetric	93

Street & Area Lighting

FRANKLIN-24
173 x 71 mm, 3X8 arrays for up to flat 5050 size LED packages

Name		Dimensions	Led Qty	Typ.FWHM	Typ.Eff.
FRANKLIN-24-30		173X71	24	30	93
FRANKLIN-24-60		173X71	24	60	93
FRANKLIN-24-90		173X71	24	90	93
FRANKLIN-24-T2M-CB		173X71	24	Asymmetric	94
FRANKLIN-24-T3	NEW	173X71	24	Asymmetric	90
FRANKLIN-24-T4		173X71	24	Asymmetric	89
FRANKLIN-24-DWC	COMING	173X71	24	Asymmetric	89
FRANKLIN-24-SCL	COMING	173X71	24	Asymmetric	89
FRANKLIN-24-ME	COMING	173X71	24	Asymmetric	89
FRANKLIN-24-VSM	COMING	173X71	24	VSM	89

FERMI

Multi-modular solutions, special for Brazil market.

FERMI-8
50 x 50 mm 8 lens (2X4) arrays optimized for flat 5050 size LED packages.

Name	Dimensions	Led Qty	Typ.FWHM	Typ.Eff.
FERMI-8-60	50X50	8	60	96
FERMI-8-90	50X50	8	90	96
FERMI-8-120C	50X50	8	120	96
FERMI-8-T2M-CB	50X50	8	Asymmetric	94
FERMI-8-T2M-CE	50X50	8	Asymmetric	90
FERMI-8-T3M-CA	50X50	8	Asymmetric	93

FERMI-24
173 x 71 mm, IP66 with a silicone gasket, 6X4 arrays for up to flat 5050 size LED packages

Name	Dimensions	Led Qty	Typ.FWHM	Typ.Eff.
FERMI-24-T2M-CC	173X71	24	Asymmetric	93

FERMI-27
220 x 78 mm ingress protected 27 lens arrays with a silicone gasket for up to flat 5050 size LED packages

Name	Dimensions	Led Qty	Typ.FWHM	Typ.Eff.
FERMI-27-T2M-CD	220X78	27	Asymmetric	90

FERMI-46
220X110mm,IP66 with a silicone gasket, 46 lens arrays for up to flat 5050 size LED packages

Name	Dimensions	Led Qty	Typ.FWHM	Typ.Eff.
FERMI-46-T2M-CD	220X110	46	Asymmetric	93

FRANKLIN-24

FERMI-8

FERMI-24

FERMI-27

FERMI-46

Street & Area Lighting

FARADAY

Width 70 mm IP66 modular lens solutions;

FARADAY-42

252 x 70 mm with 42 lens arrays; Reach IP66 with silicone gasket; Design base on flat 5050 size LED package.

Name		Dimensions	Led Qty	Typ.FWHM	Typ.Eff.
FARADAY-42-60	NEW	252X70	42	60	92
FARADAY-42-90	NEW	252X70	42	90	92

FARADAY-64

236 x 70 mm with 64 lens arrays; Reach IP66 with silicone gasket; Design base on flat 3030 size LED package.

Name	Dimensions	Led Qty	Typ.FWHM	Typ.Eff.
FARADAY-64-30	236X70	64	30	93
FARADAY-64-60	236X70	64	60	93
FARADAY-64-90	236X70	64	90	93
FARADAY-64-70X120	236X70	64	70X120	93
FARADAY-64-T2S-CC	236X70	64	Asymmetric	93
FARADAY-64-T2M-CB	236X70	64	Asymmetric	93

FARADAY-96

252 x 70 mm with 96 lens arrays; Reach IP66 with silicone gasket; Design base on flat 3030 size LED package.

Name		Dimensions	Led Qty	Typ.FWHM	Typ.Eff.
FARADAY-96-30	COMING	252X70	96	30	93
FARADAY-96-60	NEW	252X70	96	60	92
FARADAY-96-90	NEW	252X70	96	90	92
FARADAY-96-30X70	COMING	252X70	96	30X70	93
FARADAY-96-45X90	COMING	252X70	96	45X90	93
FARADAY-96-T2M-CA	COMING	252X70	96	Asymmetric	93
FARADAY-96-T3M-CA	COMING	252X70	96	Asymmetric	93

RUTHERFORD

Integrated with Ingress protected power supply chamber cover and light source chamber; IP66 with silicone gasket; Optimized for 3030 size LED packages. For different wattages, has excellent waterproof ability. Compatible with 2835 LED package

Name	Dimensions	Led Qty	Typ.FWHM	Typ.Eff.
RUTHERFORD-72-T2S-CD	325X110	72	Asymmetric	94
RUTHERFORD-120-T2S-CD	375X128	120	Asymmetric	94
RUTHERFORD-192-T2S-CD	433X145	192	Asymmetric	94

RUTHERFORD-G2

T2M cutoff, meet Brazil Inmetro certification light distribution requirement. Integrated with Ingress protected power supply chamber cover and light source chamber; IP66 with silicone gasket; Optimized for 2835 size LED packages For different wattages, has excellent waterproof ability. Compatible with 3030 LED package.

Name		Dimensions	Led Qty	Typ.FWHM	Typ.Eff.
RUTHERFORD-64-T2M-CC_G2	NEW	223X130	64	T2M	90
RUTHERFORD-112-T2M-CC_G2	NEW	304X134	112	T2M	90
RUTHERFORD-192-T2M-CC_G2	NEW	355X185	192	T2M	90
RUTHERFORD-280-T2M-CC_G2	NEW	420X210	280	T2M	90
RUTHERFORD-384-T2M-CC_G2	NEW	495X245	384	T2M	90

FARADAY-64

FARADAY-96

RUTHERFORD

RUTHERFORD-G2
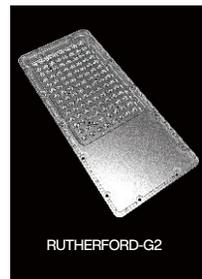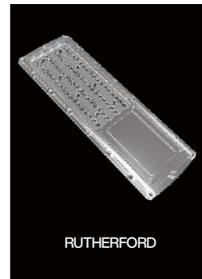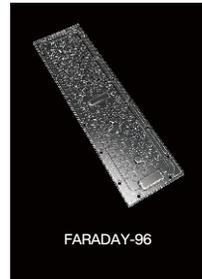
UFO Light Lens

UFO C

UFO C SERIES is the versatile round lens series with Confined space in the middle for sensor.The lamp beads can be arranged freely, and a high-efficiency UFO lens series.

UFO-D184-C26
Ø184 mm; 6 rings Convex lens structure and free arrangement of LEDs. With Confined Space (Ø26 mm) in the middle for sensor. Up to 3030 size LED package

Name	Dimensions	Ring Qty	Typ.FWHM	Typ.Eff.
UFO-D184-6R-60A-C26	D184	6R	60	96
UFO-D184-6R-90A-C26	D184	6R	90	96

UFO-D224-C30
Ø224 mm; 5 rings Convex lens structure and free arrangement of LEDs. With Confined Space (Ø30 mm) in the middle for sensor. Up to 3030 size LED package

Name		Dimensions	Ring Qty	Typ.FWHM	Typ.Eff.
UFO-D224-5R-60A-C30		D224	5R	60	90
UFO-D224-5R-90A-C30	NEW	D224	5R	90	90

UFO-D226-C26
Ø226 mm; 7 rings Convex lens structure and free arrangement of LEDs. With Confined Space (Ø26 mm) in the middle for sensor. Up to 3030 size LED package

Name		Dimensions	Ring Qty	Typ.FWHM	Typ.Eff.
UFO-D226-7R-60A-C26	NEW	D226	7R	60	96
UFO-D226-7R-90A-C26		D226	7R	90	96

UFO-D263-C26
Ø263 mm; 11 rings Convex lens structure and free arrangement of LEDs. With Confined Space (Ø26 mm) in the middle for sensor. Up to 3030 size LED package

Name	Dimensions	Ring Qty	Typ.FWHM	Typ.Eff.
UFO-D263-11R-60A-C26	D263	11R	60	93
UFO-D263-11R-90A-C26	D263	11R	85	93

UFO-D263-C32
Ø263 mm; 6 rings Convex lens structure and free arrangement of LEDs. With Confined Space (Ø32 mm) in the middle for sensor. Up to 3030 size LED package

Name	Dimensions	Ring Qty	Typ.FWHM	Typ.Eff.
UFO-D263-6R-60A-C32	D263	6R	60	90

UFO-D265-C26
Ø265 mm; 8 rings Convex lens structure and free arrangement of LEDs. With Confined Space (Ø26 mm) in the middle for sensor. Up to 3030 size LED package

Name	Dimensions	Ring Qty	Typ.FWHM	Typ.Eff.
UFO-D265-8R-30A-C26	D265	8R	30	88

UFO-D265-C49
Ø265 mm; 8 rings Convex lens structure and free arrangement of LEDs. With Confined Space (Ø49 mm) in the middle for sensor. Up to 3030 size LED package

Name	Dimensions	Ring Qty	Typ.FWHM	Typ.Eff.
UFO-D265-8R-30A-C49	D265	8R	30	88
UFO-D265-8R-60A-C49	D265	8R	60	92
UFO-D265-8R-90A-C49	D265	8R	90	92

UFO-D224-C30

UFO-D263-C26

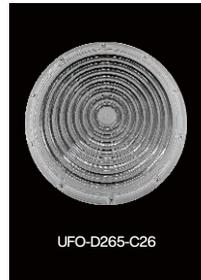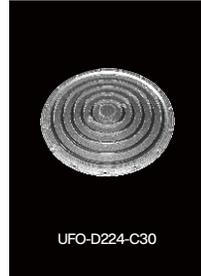UFO-D265-C26

UFO-D265-C49

UFO Light Lens

UFO-D293-C26
Ø293 mm; 12 rings Convex lens structure and free arrangement of LEDs. With Confined Space (Ø26 mm) in the middle for sensor. Up to 3030 size LED package

Name	Dimensions	Ring Qty	Typ.FWHM	Typ.Eff.
UFO-D293-12R-60A-C26	D293	12R	60	92
UFO-D293-12R-90A-C26	D293	12R	90	92
UFO-D293-12R-120A-C26	D293	12R	120	92

UFO FC
Flat cover seal with silicon gasket.

Name	Dimensions	Ring Qty	Typ.FWHM	Typ.Eff.
UFO-D184-XX-120A-C26	D184	FLAT	120	94
UFO-D224-XX-120A-C30	D224	FLAT	120	93
UFO-D226-XX-120A-C26	D226	FLAT	120	96
UFO-D265-XX-120A-C26	D265	FLAT	120	96
UFO-D265-XX-120A-C49 COMING	D265	FLAT	120	96

UFO ZM
Adjustable (ZOOM) angle UFO lens series, free switch to 60°/90°/110°, up to 3030 size LED package

Name	Dimensions	Ring Qty	Typ.FWHM	Typ.Eff.
UFO-ZM-D182-9R-C40	D182	9R	60/90/110	90
UFO-ZM-D224-12R-C52	D224	12R	60/90/110	90
UFO-ZM-D262-15R-C52	D262	15R	60/90/110	90

UFO CE
Update UFO version, Cost optimize high optical efficiency with the convex lens structure and more circles free arrangement of lamp beads. With Confined space in the middle sensor.

UFO-CE-D164-C24
7 rings Convex lens structure and free arrangement of LEDs. With Confined Space (Ø24 mm) in the middle for sensor. Up to 3030 size LED package

Name	Dimensions	Led Qty	Typ.FWHM	Typ.Eff.
UFO-CE-D164-7R-60A-C24	D164	7	60	90
UFO-CE-D164-7R-90A-C24	D164	7	90	90

UFO-CE-D184-C24
9 rings Convex lens structure and free arrangement of LEDs. With Confined Space (Ø24 mm) in the middle for sensor. Up to 3030 size LED package

Name	Dimensions	Led Qty	Typ.FWHM	Typ.Eff.
UFO-CE-D184-9R-60A-C24	D184	9	60	90
UFO-CE-D184-9R-90A-C24	D184	9	90	90

UFO-CE-D226-C26
11 rings Convex lens structure and free arrangement of LEDs. With Confined Space (Ø26 mm) in the middle for sensor. Up to 3030 size LED package

Name	Dimensions	Led Qty	Typ.FWHM	Typ.Eff.
UFO-CE-D226-11R-60A-C26	D226	11	60	90
UFO-CE-D226-11R-90A-C26	D226	11	90	90

UFO-CE-D265-C26
14 rings Convex lens structure and free arrangement of LEDs. With Confined Space (Ø26 mm) in the middle for sensor. Up to 3030 size LED package

Name	Dimensions	Led Qty	Typ.FWHM	Typ.Eff.
UFO-CE-D265-14R-60A-C26	D265	14	60	90
UFO-CE-D265-14R-90A-C26	D265	14	90	90

UFO FC

UFO ZM

UFO-CE-D164-C24

UFO-CE-D184-C24

UFO-CE-D226-C26

UFO-CE-D265-C26

UFO Light Lens

UFO-D293-218

UFO-D265-C55

UFO N

UFO-D293-218
Ø293 mm; 218 pcs LED Domes array for industrial lighting, up to 5050 size LED package

Name	Dimensions	Led Qty	Typ.FWHM	Typ.Eff.
UFO-D293-218-30B-C45	D293	218	30	92

UFO N G2

UFO N G2 SERIES is the most popular UFO lens series with many individual convex-optics, delivers super low UGR

UFO-D265-C55
Ø265 mm; Optimized on 4*3030 LED package, compatible with 5050 size flat LED package.

Name	Dimensions	Led Qty	Typ.FWHM	Typ.Eff.
UFO-D265-90-30x90-C55_G2	D265	90	30X90	91

Architecture Lighting

SNELL

Ø16.1mm TIR-lenses assembled with holder. Optimized for CREE XP-G3, compatible with up to 5050 size LED packages, 3535 LED holder & 5050 LED holder is available.

Name		D	H	Typ.FWHM	Typ.Eff.
SNELL-15	NEW	D16.1	10	15	80
SNELL-25	NEW	D16.1	10	25	82
SNELL-36	NEW	D16.1	10	36	85
SNELL-55	NEW	D16.1	10	55	80
SNELL-20X60	NEW	D16.1	10	20X60	80

SNELL

HILBERT

HILBERT
Ø22mm TIR-lenses up to 3535 size LED packages, assembled with holder

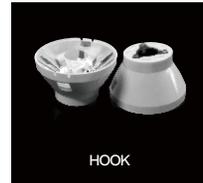| Name	D	H	Typ.FWHM	Typ.Eff.
HILBERT-25	D22	14.5	25	91

HILBERT-G2
Ø22mm TIR-lenses assembled with holder. Optimized for CREE XP-G3, compatible with up to 5050 size LED packages, 3535 LED holder & 5050 LED holder is available

Name		D	H	Typ.FWHM	Typ.Eff.
HILBERT-10_G2	NEW	D22	14.8	15	88
HILBERT-15_G2	NEW	D22	14.8	15	80
HILBERT-25_G2	NEW	D22	14.8	25	78
HILBERT-36_G2	NEW	D22	14.8	36	80
HILBERT-55_G2	NEW	D22	14.8	55	80
HILBERT-15X45_G2	NEW	D22	14.8	15X45	80

HILBERT

HOOK

Narrow beam angel for spot light and project light

HOOK
Φ35 mm single lens, Narrow beam angle with position pin, Ø37 mm with holder, holder is optional, optimized for CREE XP-E.

Name	D	H	Typ.FWHM	Typ.Eff.
HOOK-4	D37	18.75	4	93

HOOK

HOOK-D52
Narrow beam angle, Optimized for CREE XPE 3535 and compatible with 3030 size LED package .

Name	D	H	Typ.FWHM	Typ.Eff.
HOOK-D52-5	D52.5	27.4	5	93

HOOK-D52

HOOK-66
Narrow beam angle, optimized for LUMISEE L35W-11C2S and compatible with 3535 size LED package. For spot light and project light.

Name	D	H	Typ.FWHM	Typ.Eff.
HOOK-66-1.6	66X66	40.5	1.6	89

HOOK-66

HOOK-BIO
Φ36.5*45.1mm lens with holder, extreme narrow beam angle, Bio lens assembly, optimized for CREE XP-E.

Name	D	H	Typ.FWHM	Typ.Eff.
HOOK-BIO-3	D36.8	46.4	3	45

HOOK-BIO

Architecture Lighting

RGBW

RGBW-D31
Ø31 mm TIR-lenses optimized for RGBW colour mixing applications , optimize for Dome 3535 size RGBW LED package.

Name	D	H	Typ.FWHM	Typ.Eff.
RGBW-D31-8	D31	16.2	8	93

RGBW-D37
Ø37 mm TIR-lenses optimized for RGBW colour mixing applications , design base on Dome 5050 size RGBW LED packages, compatible with Dome 3535 and 3030 size LED package.

Name	D	H	Typ.FWHM	Typ.Eff.
RGBW-D37-15	D37	20.3	15	93
RGBW-D37-25	D37	20.3	25	93
RGBW-D37-40	D37	20.3	40	93
RGBW-D37-50	D37	20.3	50	93
RGBW-D37-20X30	D37	20.3	20X30	93

RGBW-ECO
Cost Economy, Ø22 mm lens with seal protection function for outdoor lighting,   optimized for CLQ6A .

Name	D	H	Typ.FWHM	Typ.Eff.
RGBW-ECO-D22-30	D22	12.4	30	93
RGBW-ECO-D22-40	D22	12.4	40	93
RGBW-ECO-D22-30X35	D22	12.7	30X35	93

HEISENBERG

Ø10 mm TIR-lenses optimized for 3535 Mid-Power or High-Power LED packages, assembled with holder.

Name	D	H	Typ.FWHM	Typ.Eff.
HEISENBERG-15	D10	7.4	15	93
HEISENBERG-24	D10	7.4	24	93
HEISENBERG-36	D10	7.7	36	93
HEISENBERG-25X40	D10	7.7	25X40	93

EINSTEIN

EINSTEIN
Ø12 mm lens optimized for 3535 LED package,compatible with up to 5050 size LED packages. With holder or without holder is optional

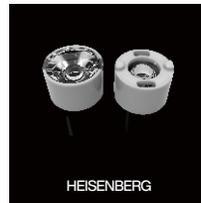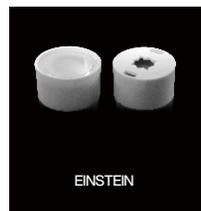| Name	D	H	Typ.FWHM	Typ.Eff.
EINSTEIN-15	D13.2	7.35	15	93
EINSTEIN-20	D13.2	7.35	20	93
EINSTEIN-35	D13.2	7.35	35	93
EINSTEIN-40	D13.2	7.35	40	93
EINSTEIN-75	D13.2	7.35	75	93
EINSTEIN-85	D13.2	7.35	85	93

RGBW-D31

RGBW-D37

RGBW-ECO

HEISENBERG

EINSTEIN

Architecture Lighting

EINSTEIN-6
Assembly 6 EINSTEIN single lens with holder and shade, size 107.6×18.5mm, Both white / black holder and shade is available . optimized for 3535 LED package, compatible with up to 5050 size LED packages.

Name	Dimensions	H	Typ.FWHM	Typ.Eff.
EINSTEIN-6-15	107.6X18.5	18.1	15	93
EINSTEIN-6-20	107.6X18.5	18.1	20	93
EINSTEIN-6-35	107.6X18.5	18.1	35	93
EINSTEIN-6-40	107.6X18.5	18.1	40	93
EINSTEIN-6-75	107.6X18.5	18.1	75	93
EINSTEIN-6-85	107.6X18.5	18.1	85	93

EINSTEIN-6
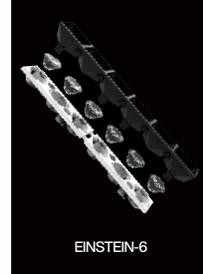
HERTZ

HERTZ
Ø15.2mm Assembled with holder and Ø13.5mm TIR-lenses. Optimized for 3535 medium or high power LED package, compatible with 5050, 3030 medium and high power LED package. Black or White holder optional; Tape optional.

Name	D	H	Typ.FWHM	Typ.Eff.
HERTZ-13	D15.2	9	13	93
HERTZ-18	D15.2	9	18	93
HERTZ-25	D15.2	9	25	93
HERTZ-70	D15.2	9	70	93
HERTZ-16X35	D15.2	9	16X35	93
HERTZ-16X55	D15.2	9	16X55	93

HERTZ

HERTZ_5050
Ø15.3mm Assembled with holder and Ø13.5mm TIR-lenses. Optimized for 5050 medium or high power LED package, compatible with Batwing high power LED package.

Name	D	H	Typ.FWHM	Typ.Eff.
HERTZ-30_5050	D15.3	13.3	30	93
HERTZ-35_5050	D15.3	13.3	35	90
HERTZ-40_5050	D15.3	13.3	40	75
HERTZ-50_5050	D15.3	13.3	50	90
HERTZ-55_5050	D15.3	13.3	55	90

HERTZ_5050

BORN
Ø21.2 mm TIR-lenses with holder, design for 3535 LED. Compatible with up to 5050 size LED packages.

Name	D	H	Typ.FWHM	Typ.Eff.
BORN-10	D21.2	12.4	10	90
BORN-15	D21.2	12.4	15	90
BORN-25	D21.2	12.4	25	90
BORN-30	D21.2	12.4	30	90
BORN-55	D21.2	12.4	55	90
BORN-35X10	D21.2	12.4	35X10	90

BORN

Architecture Lighting

DARWIN

DARWIN
Ø23.2 mm TIR-lenses design base on middle power 3535 size LED package. Assembly with holder

Name	D	H	Typ.FWHM	Typ.Eff.
DARWIN-7	D23.2	13.3	7	93
DARWIN-8	D23.2	12.32	8	93
DARWIN-10	D23.2	12.32	10	93
DARWIN-12	D23.2	12.32	12	93
DARWIN-17	D23.2	12.32	17	93
DARWIN-25	D23.2	12.32	25	93
DARWIN-40	D23.2	12.32	40	93
DARWIN-60	D23.2	12.42	60	93
DARWIN-10X20	D23.2	12.2	10X20	93
DARWIN-12X45	D23.2	12.32	12X45	93
DARWIN-15X55	D23.2	12.32	15X55	93

DARWIN

DARWIN-16
Assembly 16 Darwin single lens (4X4) arrays with 110.7 x110.7 mm holder. Available white and black holder.

Name	Dimensions	H	Typ.FWHM	Typ.Eff.
DARWIN-16-7	110.7X110.7	18.2	7	93
DARWIN-16-8	110.7X110.7	18.2	8	93
DARWIN-16-10	110.7X110.7	18.2	10	93
DARWIN-16-12	110.7X110.7	18.2	12	93
DARWIN-16-17	110.7X110.7	18.2	17	93
DARWIN-16-25	110.7X110.7	18.2	25	93
DARWIN-16-40	110.7X110.7	18.2	40	93
DARWIN-16-60	110.7X110.7	18.2	60	93
DARWIN-16-10X20	110.7X110.7	182	10X20	93
DARWIN-16-12X45	110.7X110.7	18.2	12X45	93
DARWIN-16-15X55	110.7X110.7	18.2	15X55	93

DARWIN-16
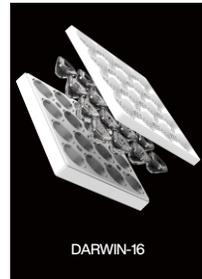
NOBEL

Ø28.9 mm single lens, Ø31 mm with holder. Designed based on CREE XPE 3535 LED, compatible with 3030 and CREE JR5050 and Batwing package by different holder.

Name	D	H	Typ.FWHM	Typ.Eff.
NOBEL-6	D31	17.1	6	93
NOBEL-9	D31	17.1	9	93
NOBEL-19	D31	17.1	19	93
NOBEL-25	D31	17.1	25	93
NOBEL-8X35	D31	17.1	8X35	93
NOBEL-9X20	D31	17.1	9X20	93
NOBEL-12X30	D31	17.1	12X30	93

NOBEL

Architecture Lighting

AMPERE

AMPERE
Ø37 mm TIR-lenses with holder, optimize for XPE 3535 size LED package, compatible with up to 5050 size LED packages.

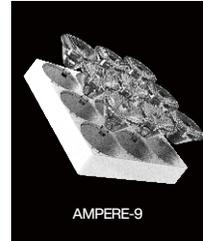| Name	D	H	Typ.FWHM	Typ.Eff.
AMPERE-5	D37	18.75	5	93
AMPERE-7	D37	18.75	7	93
AMPERE-9	D37	18.75	9	93
AMPERE-12	D37	18.75	12	93
AMPERE-24	D37	18.75	24	93
AMPERE-36	D37	18.75	36	93
AMPERE-45	D37	18.75	45	93
AMPERE-10X30	D37	18.75	10X30	93

AMPERE-9
Assembly with 9 pcs (3X3 arrays) Ampere single lenses with 110.7 x110.7 mm holder.

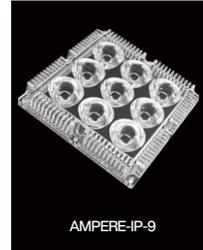| Name	Dimensions	H	Typ.FWHM	Typ.Eff.
AMPERE-9-4	110.7X110.7	18.7	4	93
AMPERE-9-5	110.7X110.7	18.7	5	93
AMPERE-9-7	110.7X110.7	18.7	7	93
AMPERE-9-9	110.7X110.7	18.7	9	93
AMPERE-9-12	110.7X110.7	18.7	12	93
AMPERE-9-24	110.7X110.7	18.7	24	93
AMPERE-9-36	110.7X110.7	18.7	36	93
AMPERE-9-45	110.7X110.7	18.7	45	93
AMPERE-9-10X30	110.7X110.7	18.7	10X30	93

AMPERE-IP-9
136X136mm, 3X3 Lens array modular solutions for wall washing light, optimized for 3535 medium or high power LED packages, with silicone gasket with Ip68

Name	Dimensions	H	Typ.FWHM	Typ.Eff.
AMPERE-IP-9-7	136X136	26.5	7	93

DOPPLER

Silicone lenses designed for sports field, area lighting, 35 x 35 mm single silicone lenses, optimized for LUMILEDS LXR7-RW50

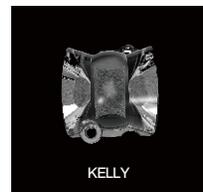| Name	Dimensions	H	Typ.FWHM	Typ.Eff.
DOPPLER-60	35X35	14	60	93

KELLY

KELLY series lens, wide horizontal beam, suitable for emergency, vehicle warning lighting, corridor and wall washing light.

Name	Dimensions	H	Typ.FWHM	Typ.Eff.
KELLY-100X15	29X23	13.4	100X15	97

AMPERE
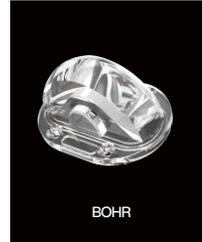

AMPERE-9

AMPERE-IP-9

DOPPLER

KELLY

Architecture Lighting

BOHR

BOHR series lens enables to illuminate Windows and Doors. Optimized for 3535 size LED packages.

Name	Dimensions	H	Typ.FWHM	Typ.Eff.
BOHR-5X110*	55X44	27.5	5X110	93
BOHR-D68-XX-120	D68	14	120	93

* Clear Version, high efficiency. Matt Version, RGBW version.

LONGPING

LONGPING-G1

Optimized for 3030 packages, compatible with 3535 Mid-Power or High-Power LED packages, wall washing light. With position PIN and glue fastening,

Name		D	H	Typ.FWHM	Typ.Eff.
LONGPING-11_G1	NEW	D14.9	7	11	93
LONGPING-15_G1	NEW	D14.9	7	15	93
LONGPING-20_G1		D14.9	7	20	93
LONGPING-25_G1	NEW	D14.9	7	25	93
LONGPING-30_G1		D14.9	7	30	93
LONGPING-35_G1		D14.9	7	35	93
LONGPING-30X35_G1	NEW	D14.9	7	30X35	93
LONGPING-30X45_G1		D14.9	7	30X45	93

LONGPING-G2

Both version design on 3030 compatible with 3535 Mid-Power or High-Power and design for flat 5050 size LED packages, wall washing light. Clip fastening.

Name	D	H	Typ.FWHM	Typ.Eff.
LONGPING-30_G2_3030	D14.9	10.4	30	93
LONGPING-30X40_G2_3030	D14.9	10.4	30X40	93
LONGPING-30_G2	D14.9	10.4	30	93
LONGPING-35X45_G2	D14.9	10.4	35X45	93

EDISON

Ø22 mm lens with integrated holder for wall washing light, optimized for middle power 3535 size LED package. compatible with 3030 size LED package.

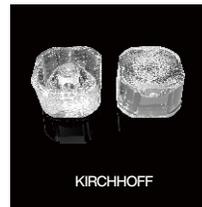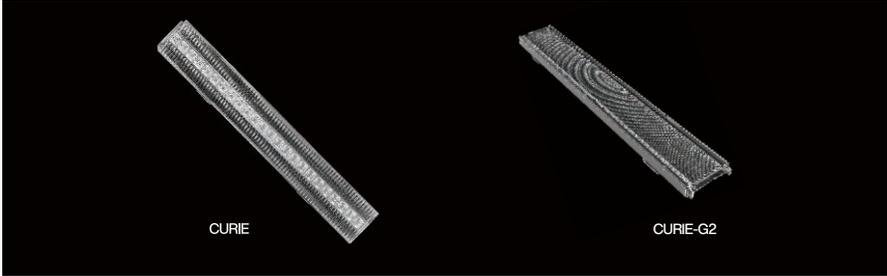| Name	D	H	Typ.FWHM	Typ.Eff.
EDISON-12	D22	13.2	12	93
EDISON-20	D22	13.2	20	93
EDISON-30	D22	13.2	30	93
EDISON-50	D22	13.2	50	93
EDISON-60	D22	13.2	60	93
EDISON-20X30	D22	13.2	20X30	93
EDISON-15X35	D22	13.2	15X35	93
EDISON-20X40	D22	12.85	20X40	93
EDISON-25X40	D22	12.6	25X40	93

KIRCHHOFF

16×16mm lens, easily seal protection function for outdoor lighting to reach IP68 by potting glue.The economical version of the HERTZ series. Optimized for CREE XP-E, compatible with 3030 size LED packages.

Name	D	H	Typ.FWHM	Typ.Eff.
KIRCHHOFF-12	16X16	9.2	12	85
KIRCHHOFF-20	16X16	9.2	20	85
KIRCHHOFF-35	16X16	9.2	35	85
KIRCHHOFF-40	16X16	10.15	40	85
KIRCHHOFF-60	16X16	10.15	60	85
KIRCHHOFF-15X30	16X16	9.2	15X30	85
KIRCHHOFF-15X55	16X16	9.2	15X55	85

BOHR

LONGPING-G1

LONGPING-G2

EDISON

KIRCHHOFF

Linear Lenses

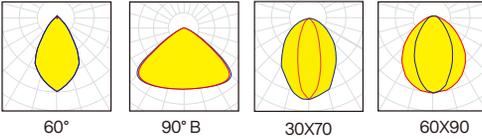CURIE   CURIE-G2

CURIE

CURIE
280×43mm linear lens, optimized for 3030 size LED package. Compatible with 2835 LED package. Fit for 24mm wide ZHAGA PCB
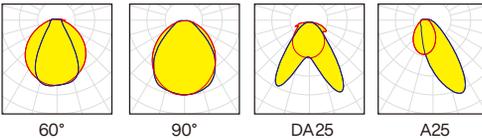
Name	Dimensions	Led Qty	Typ.FWHM	Typ.Eff.
CURIE-24-60	280X43	24	60	90
CURIE-24-90B	280X43	24	90	89
CURIE-24-30X70	280X43	24	30X70	89
CURIE-XX-60X90	280X43	XX	60X90	90

60°   90° B   30X70   60X90

CURIE-G2
280×40mm linear lens, free arrangement of LEDs, optimized for 3030 size LED package. Compatible with 2835 LED package. Fit for 24mm wide ZHAGA PCB

Name		Dimensions	Led Qty	Typ.FWHM	Typ.Eff.
CURIE-XX-60_G2	NEW	280X40	XX	60	86
CURIE-XX-90A_G2	NEW	280X40	XX	90	86
CURIE-XX-DA25_G2	NEW	280X40	XX	DA25	86
CURIE-XX-A25_G2	NEW	280X40	XX	A25	86

60°   90°   DA25   A25

Linear Lenses

LAPLACE-3R   LAPLACE-3R-G2
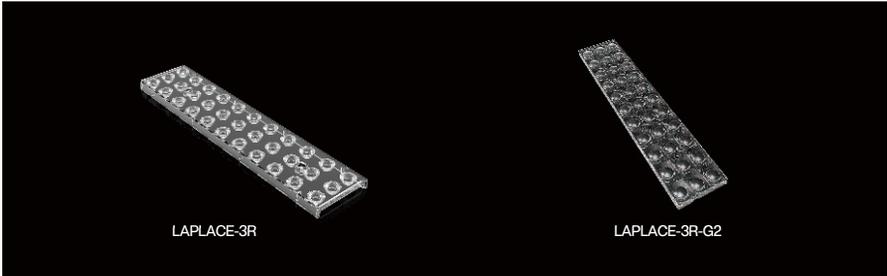
LAPLACE-3R

LAPLACE-3R
285×62mm 3-row (3×11) linear lenses, TIR optics design base on 2835 size LED package. Compatible with 2835 LED package. Fit for ZHAGA 3 rows PCB.

| Name	Dimensions	Led Qty	Typ.FWHM	Typ.Eff.
LAPLACE-3R-33-60	285X62	33	60	96
LAPLACE-3R-33-90A	285X62	33	90	94

LAPLACE-3R-G2
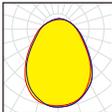285×62mm 3-row (3×11) linear lenses, Fresnel optics design base on 2835 size LED package. Compatible with 2835 LED package. Fit for ZHAGA 3 rows PCB.

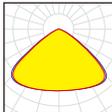| Name		Dimensions	Led Qty	Typ.FWHM	Typ.Eff.
LAPLACE-3R-33-60_G2	NEW	286X61	33	60	92.5
LAPLACE-3R-33-90B_G2		286X61	33	90	92.5
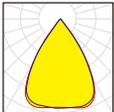
60°   90° A   90° B

Linear Lenses

THOMSON

THOMSON is a perfect solution with a seamless glare eliminating shade and highly efficient lenses, optimized for 4*3030/4*2835 size LED packages.

THOMSON-3
120×40mm linear solution with shade-t3.

Name	Dimensions	Led Qty	Typ.FWHM	Typ.Eff.
THOMSON-3-60	120X40	3	60	92
THOMSON-3-70	120X40	3	70	93
THOMSON-3-80	120X40	3	80	83
THOMSON-3-50X70	120X40	3	50X70	87

THOMSON-4
160×40mm linear solution with shade-t4.

Name	Dimensions	Led Qty	Typ.FWHM	Typ.Eff.
THOMSON-4-30	160X40	4	30	88
THOMSON-4-60	160X40	4	60	83
THOMSON-4-80	160X40	4	80	83
THOMSON-4-50X70	160X40	4	50X70	73

THOMSON-7
280×40mm linear solution with shade-t7.

Name	Dimensions	Led Qty	Typ.FWHM	Typ.Eff.
THOMSON-7-30	280X40	7	30	88
THOMSON-7-60	280X40	7	60	83
THOMSON-7-80	280X40	7	80	83
THOMSON-7-50X70	280X40	7	50X70	73

AVOGADRO

280×10mm linear lens, optimized for SMD2835/3030 LED package

Name	Dimensions	Led Qty	Typ.FWHM	Typ.Eff.
AVOGADRO-28-25	280X9.6	28	25	90
AVOGADRO-28-15X50	280X9.6	28	15X50	90

DAVY

280×15mm linear lens, optimized for SMD2835/3030 LED package

Name	Dimensions	Led Qty	Typ.FWHM	Typ.Eff.
DAVY-24-30	280X15.6	24	30	90
DAVY-24-90B	280X15.4	24	90	90

THOMSON-3

THOMSON-4

THOMSON-7

AVOGADRO

DAVY

| 25° | 30° | 60° | 70° | 80° | 90° B | 15X50 | 50X70 |
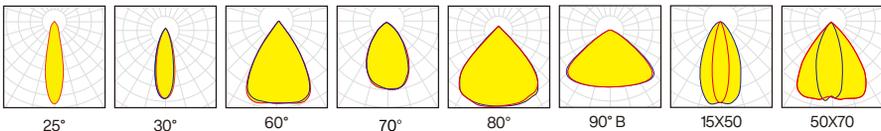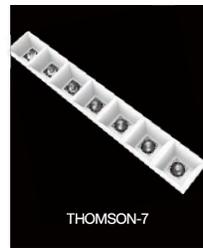
Extrusion Linear Lens

The most versatile modular product family especially designed for the application of office, warehouse, retail general lighting, shelf lighting and wall washing

Good covering effect
Customized length
Complete angle
High efficiency

OERSTED

OERSTED is a linear extrusion lenses family. The optics are made of diffused PMMA for high optical efficiency with good LED source hiding power. OERSTED can be customized for luminaires for different lengths

OERSTED-26
Width: 26mm, fit 24mm ZHAGA PCB, length customized, design for 3030 size LED package, compatible with 2835 size LED package.

Name	Dimensions	Led Qty	Typ.FWHM	Typ.Eff.
OERSTED-26-30	26X1140	XX	30X90	91
OERSTED-26-45	26X1140	XX	45X90	91
OERSTED-26-60	26X1140	XX	60X90	90
OERSTED-26-70	26X1140	XX	70X90	92
OERSTED-26-90	26X1140	XX	90X90	88
OERSTED-26-110	26X1140	XX	110X90	88
OERSTED-26-140	26X1140	XX	140X90	84
OERSTED-26-165	26X1140	XX	165X130	90
OERSTED-26-DA25	26X1140	XX	Asymmetric	89
OERSTED-26-A15	26X1140	XX	Asymmetric	85

OERSTED-40
Width: 40mm, fit 24mm ZHAGA PCB, length customized, design for 3030 size LED package, compatible with 2835 size LED package.

Name		Dimensions	Led Qty	Typ.FWHM	Typ.Eff.
OERSTED-40-40	NEW	40X1140	XX	40X90	88
OERSTED-40-60	NEW	40X1140	XX	60X90	88
OERSTED-40-70	COMING	40X1140	XX	70X90	92
OERSTED-40-90	NEW	40X1140	XX	90X90	88
OERSTED-40-110	COMING	40X1140	XX	110X90	88
OERSTED-40-140	COMING	40X1140	XX	140X90	84
OERSTED-40-165	COMING	40X1140	XX	165X130	90
OERSTED-40-DA25	NEW	40X1140	XX	Asymmetric	88
OERSTED-40-A25	NEW	40X1140	XX	Asymmetric	88

30° 40° 45° 60° 70° 90° 110° 140°

165° DA25 A15 A25
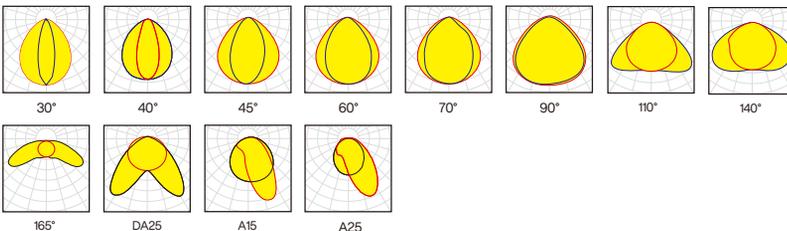
LED Backlight

KEPLER
Optimized for back light lens of panel lighting, ceiling lighting, advertising light box,made by PMMA.

Name		D	OD	LED spacing	Led	Typ.Eff.
KEPLER-D9.34	NEW	D9.34	30~35	75	LUXEON 3030	85
KEPLER-D11.5	NEW	D11.5	20~30	Px80 , Py90	LUXEON 3030 SQUARE	90
KEPLER-D11.5		D11.5	20~30	Px80 , Py90	SAMSUNG 2835	93
KEPLER-D13.5	NEW	D13.5	20~30	Px80 , Py90	LUXEON 3030 SQUARE	90
KEPLER-D13.5		D13.5	20~30	Px80 , Py90	SAMSUNG 2835	93

KEPLER

KEPLER-T
TV Backlight (Refraction type)

Name		D	OD	LED spacing	Led	Typ.Eff.
KEPLER-T-D16	NEW	D15.8	35	Px105 , Py155	LUXEON 3030 SQUARE	90
KEPLER-T-D16	NEW	D16	35	Px94 , Py155	LUXEON 3030 SQUARE	90

KEPLER-T

KEPLER-F
TV Backlight (Reflection type)

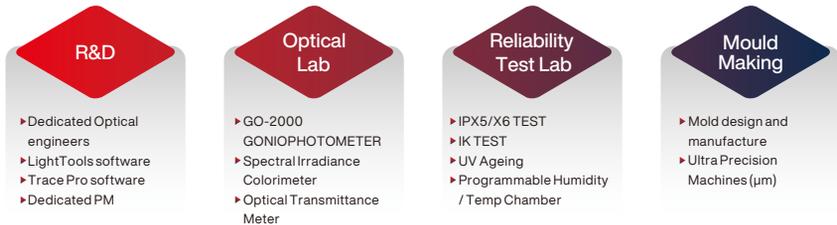| Name		D	OD	LED spacing	Led	Typ.Eff.
KEPLER-F-D17	NEW	D17	18/22	Px145 ,Py145	LUXEON 3030 SQUARE	90

KEPLER-F

SunLumin Customize Solution

Research & Development
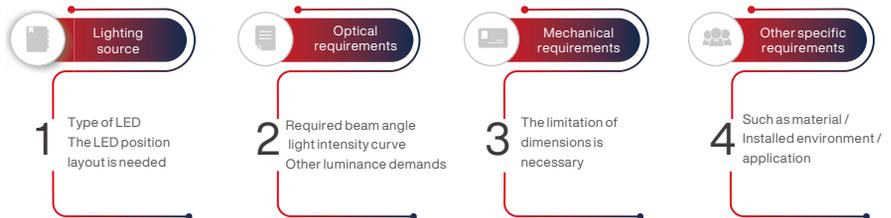
Dedicated optical engineers
Dedicated mechanical engineers
Dedicated project management engineers
Turn around time: within 16-43 days

3 days

Optical design spec

DFM report

3 days

7 or 30days

Prototyping or M/P tool

Fine tunning

3 ~7days

Sample approved

Customize Advantage

R&D
▶ Dedicated Optical engineers
▶ LightTools software
▶ Trace Pro software
▶ Dedicated PM

Optical Lab
▶ GO-2000 GONIOPHOTOMETER
▶ Spectral Irradiance Colorimeter
▶ Optical Transmittance Meter

Reliability Test Lab
▶ IPX5/X6 TEST
▶ IK TEST
▶ UV Ageing
▶ Programmable Humidity / Temp Chamber

Mould Making
▶ Mold design and manufacture
▶ Ultra Precision Machines (µm)

Customization

Lighting source
Optical requirements
Mechanical requirements
Other specific requirements

1 Type of LED
The LED position layout is needed

2 Required beam angle
light intensity curve
Other luminance demands

3 The limitation of dimensions is necessary

4 Such as material / Installed environment / application

SunLumin

**Your Optical
Solution Partner**