

# SunLumin<sup>®</sup>

Your Optical  
Solution Partner



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# 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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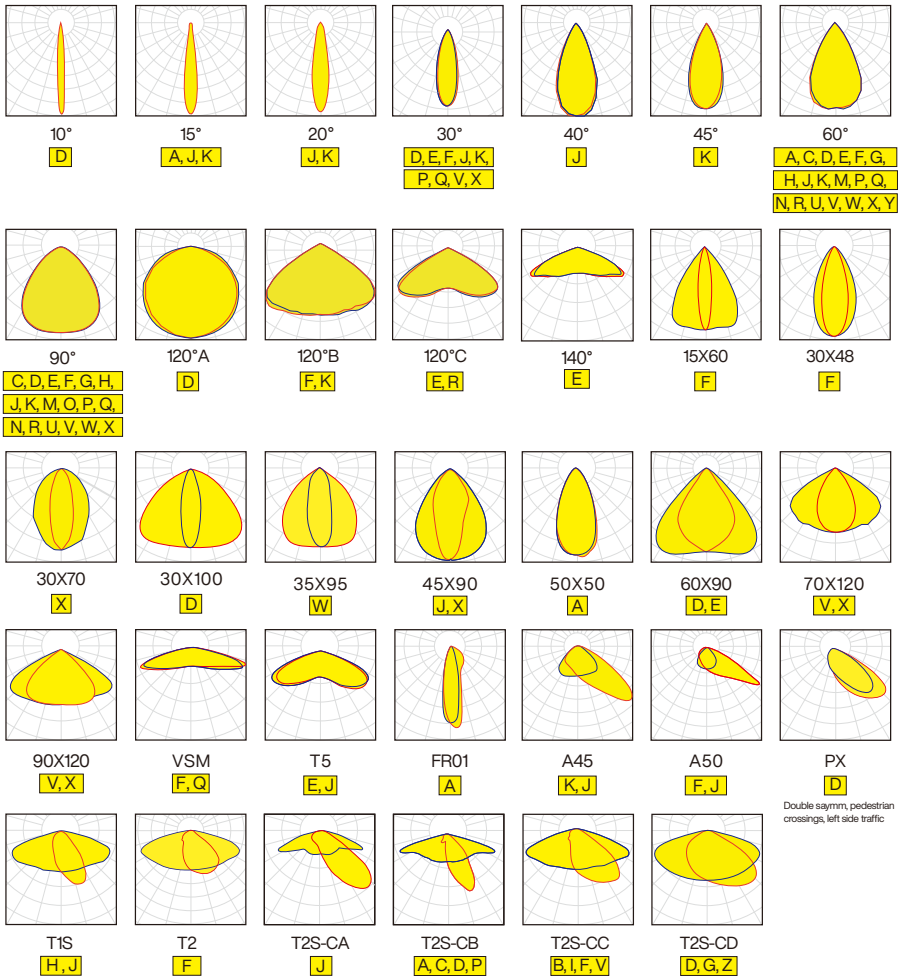
# Common Beam Type Abbreviations

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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

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



Double asymm, pedestrian crossings, left side traffic

IESNA Type I (short), less than the pole height.

IESNA Type II (medium)

Excellent longitudinal luminance uniformity fulfilling EN13201 M-class requirements. High brightness.

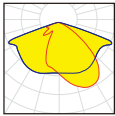
IESNA Type II (short) beam

Excellent longitudinal luminance uniformity fulfilling EN 13201 M-class requirements and Perfectly Meets EN 13201 M3 class.

IESNA Type II (short) beam with good longitudinal luminance uniformity fulfilling EN13201 M-class requirements, with added house sidebacklight.

## Street & Area Lighting

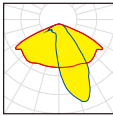
<b>A</b> MAXWELL-4_3535	<b>H</b> MAXWELL-12	<b>O</b> AMBER-IP-12	<b>V</b> FARADAY-64
<b>B</b> MAXWELL-6_3535	<b>I</b> AMBER-8	<b>P</b> FRANKLIN-12	<b>X</b> FARADAY-96
<b>C</b> MAXWELL-8_3535	<b>J</b> MAXWELL-16	<b>Q</b> FRANKLIN-24	<b>Y</b> PLANCK
<b>D</b> MAXWELL-4	<b>K</b> MAXWELL-24	<b>R</b> FERMI-8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



T2S-CE

**A**

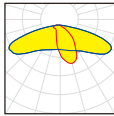
IESNA Type II (short) beam



T2S-CF

**H**

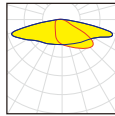
IESNA Type II (Short) beam applicable for EN13201 P-class standard/or pedestrian lighting and bicycle paths.



T2S-NA

**Y**

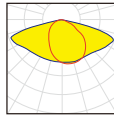
Applicable for European P-class standard pedestrian lighting and M-class roads



T2M-CA

**D, M, P, X**

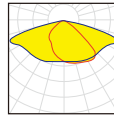
IESNA Type II (medium) cutoff with minimized house side backlight.



T2M-CB

**E, J, K, L, N, Q, R, V, H**

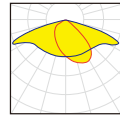
IESNA Type II (medium) beam for EN13201 M-class standard where road width is less than the pole height, added house side backlight.



T2M-CC

**K, S, AA**

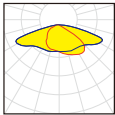
IESNA Type II (medium) beam for EN13201 M-class standard where road width is less than the pole height.



T2M-CD

**D, J, P, T**

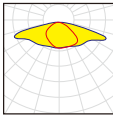
IESNA Type II (medium) beam



T2M-CE

**E, N, R**

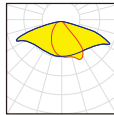
Ideal for EN13201 M-class and C-class roads. Soft wide beam with good luminance uniformity.



T2M-SC

**G, H**

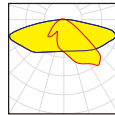
EN13201 M-class standard where road width is less than the pole height with added house side backlight



T2M-SD

**J**

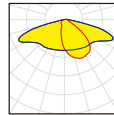
Suitable for roadway lighting in Australia



T2M-NA

**B**

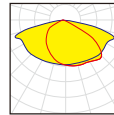
IESNA Type II (medium) beam for roads that are equal to or wider than mounting height.



T3S

**Q**

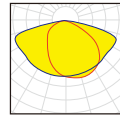
IESNA Type II (short)



T3M-SB

**G**

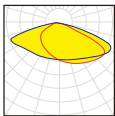
IESNA Type II-M Cutoff beam with added house side backlight.



T3M-CA

**D, J, K, P, R, X**

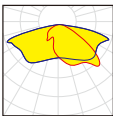
IESNA Type II (medium) beam with minimized house side backlight.



T3M-CB

**E, F**

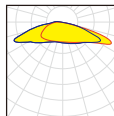
Excellent longitudinal luminance uniformity for EN13201 M-class where road width is wider than the pole height, added house side backlight.



T3M-NA

**B**

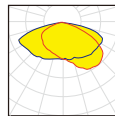
IESNA Type II (medium) beam for roads that are equal to or wider than mounting height.



T4

**Q, F, I**

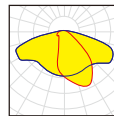
Wide IESNA Type IV forward-throw beam for wide area lighting like car parks. Fulfilling EN 13201 C-class requirements.



T4M-CA

**D**

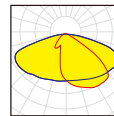
IESNA Type IV (medium)



DWC

**D, Q**

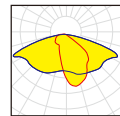
Universal road lighting (Typ. IESNA Type II Medium)



ME

**Q**

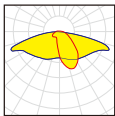
Excellent longitudinal luminance uniformity fulfilling EN13201 M-class requirements



SCL

**C, Q**

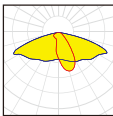
Type I/II (medium) beam for very wide pole to pole distances. Ideal for EN13201 P-class standard pedestrian lighting and M-class roads.



LN

**B, C**

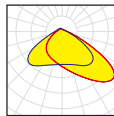
Beam for EN13201 M-class requirements with high poles or where road width is equal or less the pole height.



LN 2

**C**

Beam for EN13201 P-class and M-class requirements with high poles or where road width is less 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	<b>NEW</b> 50X50	4	Asymmetric	95

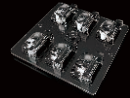


MAXWELL-4\_3535

#### 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	<b>NEW</b> 50X50	6	Asymmetric	92
MAXWELL-6-T3M-NA_3535	<b>NEW</b> 50X50	6	Asymmetric	89
MAXWELL-6-LN_3535	<b>NEW</b> 50X50	6	Asymmetric	95



MAXWELL-6\_3535

#### MAXWELL-8\_3535

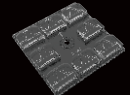
50 x 50 mm 8 lens (3+2+3) arrays optimized for 3535 size LED packages. The position of LED and the positioning column meet the EU ZHAGA standard.

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***	<b>NEW</b> 50X50	8	Asymmetric	95
MAXWELL-8-LN2_3535	<b>NEW</b> 50X50	8	Asymmetric	92
MAXWELL-8-SCL_3535	<b>NEW</b> 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	<b>NEW</b> 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	<b>NEW</b> 50X50	4	Asymmetric	96
MAXWELL-4-T3M-CA	50X50	4	Asymmetric	93
MAXWELL-4-T4M-CA	50X50	4	Asymmetric	93
MAXWELL-4-PX	<b>NEW</b> 50X50	4	Asymmetric	93
MAXWELL-4-DWC	<b>NEW</b> 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	<b>NEW</b> 50X50	6	Asymmetric	90
MAXWELL-6-T3M-CB	<b>NEW</b> 50X50	6	Asymmetric	90



### 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	<b>NEW</b> 50X50	8	15X60	95
MAXWELL-8-30X48	<b>NEW</b> 50X50	8	30X48	95
MAXWELL-8-T2***	<b>NEW</b> 50X50	8	Asymmetric	91
MAXWELL-8-T2S-CC***	50X50	8	Asymmetric	95
MAXWELL-8-T3M-CB	<b>NEW</b> 50X50	8	Asymmetric	93
MAXWELL-8-T4***	50X50	8	Asymmetric	83
MAXWELL-8-A50	50X50	8	Asymmetric	89
MAXWELL-8-VSM	<b>NEW</b> 50X50	8	VSM	90

\*\*PC/PMMA/PMMA HT material available.

\*\*\*PMMA/PMMA HT material available.



### 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	<b>NEW</b> 50X50	10	60	93
MAXWELL-10-90	<b>NEW</b> 50X50	10	90	93
MAXWELL-10-T2S-CD	<b>NEW</b> 50X50	10	Asymmetric	93
MAXWELL-10-T2M-SC	50X50	10	Asymmetric	92
MAXWELL-10-T3M-SB	50X50	10	Asymmetric	92



### 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	<b>NEW</b> 50X50	12	60	94
MAXWELL-12-90	<b>NEW</b> 50X50	12	90	94
MAXWELL-12-T1S	<b>NEW</b> 50X50	12	Asymmetric	93
MAXWELL-12-T2S-CF	<b>NEW</b> 50X50	12	Asymmetric	93
MAXWELL-12-T2M-SC**	50X50	12	Asymmetric	97
MAXWELL-12-T2M-CB	<b>NEW</b> 50X50	12	Asymmetric	92

\*\*PC/PMMA material available.



## 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-24

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

Name	Dimensions	Led Qty	Typ.FWHM	Typ.Eff.
MAXWELL-24-18	50X50	24	18	92
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

### 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	60	92
PLANCK-16-T2S-NA	100X60	16	Asymmetric	92

### TESLA

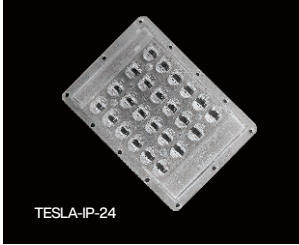
#### TESLA-2X3

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



# Street & Area Lighting



**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.

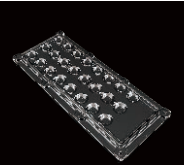
Name	Dimensions	Led Qty	Typ.FWHM	Typ.Eff.
FRANKLIN-12-30	173X71	12	30	95
FRANKLIN-12-60	173X71	12	60	95
FRANKLIN-12-90	173X71	12	90	95
FRANKLIN-12-T2S-CB	173X71	12	Asymmetric	93
FRANKLIN-12-T2M-CA	173X71	12	Asymmetric	93
FRANKLIN-12-T2M-CD	173X71	12	Asymmetric	90
FRANKLIN-12-T3M-CA	173X71	12	Asymmetric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



FRANKLIN-24



FERMI-8



FERMI-24



FERMI-27



FERMI-46

### 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

## 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

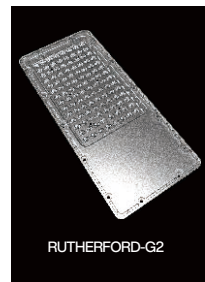
Integrated with Ingress protected power supply chamber cover and light source chamber; IP66 with silicone gasket; Optimized for 3030 size LED packages. For different wattages, has excellent waterproof ability. Compatible with 2835 LED package

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



## 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	D224 <b>NEW</b>	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	D226 <b>NEW</b>	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

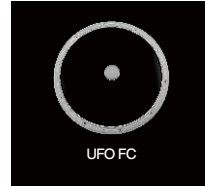
11 rings Convex lens structure and free arrangement of LEDs. With Confined Space (Ø26 mm) in the middle for sensor. Up to 3030 size LED package

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 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



### 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



### HOOK

Narrow beam angel for spot light and project light

#### HOOK

Ø35 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-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-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-66-16		66X66	40.5	16	89



#### 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

## 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 CL06A.

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



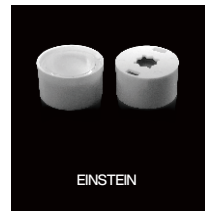
RGBW-D37



RGBW-ECO



HEISENBERG



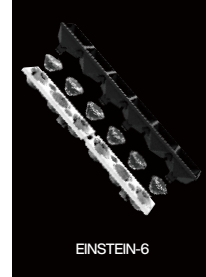
EINSTEIN

## Architecture Lighting

### EINSTEIN-6

Assembly 6 EINSTEIN single lens with holder and shade, size 107.6x18.5mm, 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



### 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\_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



### BORN

Ø212 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	D212	12.4	10	90
BORN-15	D212	12.4	15	90
BORN-25	D212	12.4	25	90
BORN-30	D212	12.4	30	90
BORN-55	D212	12.4	55	90
BORN-35X10	D212	12.4	35X10	90



## Architecture Lighting

### DARWIN

#### DARWIN

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

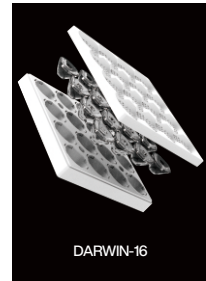
Name	D	H	Typ.FWHM	Typ.Eff.
DARWIN-7	D23.2	13.3	7	93
DARWIN-8	D23.2	12.32	8	93
DARWIN-10	D23.2	12.32	10	93
DARWIN-12	D23.2	12.32	12	93
DARWIN-17	D23.2	12.32	17	93
DARWIN-25	D23.2	12.32	25	93
DARWIN-40	D23.2	12.32	40	93
DARWIN-60	D23.2	12.42	60	93
DARWIN-10X20	D23.2	12.2	10X20	93
DARWIN-12X45	D23.2	12.32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



#### DARWIN-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	18.2	10X20	93
DARWIN-16-12X45	110.7X110.7	18.2	12X45	93
DARWIN-16-15X55	110.7X110.7	18.2	15X55	93



### NOBEL

Ø28.9 mm single lens, Ø31 mm with holder. Designed based on CREE XPE 3535 LED, compatible with 3030 and CREE JRS050 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



## 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

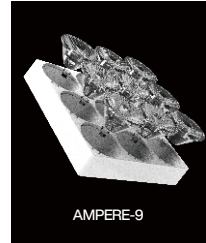


AMPERE

#### AMPERE-9

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

#### 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



AMPERE-IP-9

### DOPPLER

Silicone lenses designed for sports field, area lighting, 35 x 35 mm single silicone lenses, optimized for LUMILEDS LX87-RW50

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



DOPPLER

### 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



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.



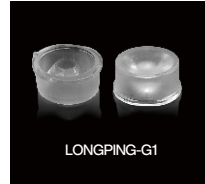
BOHR

### 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-G1

#### 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



LONGPING-G2

### 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



EDISON

### KIRCHHOFF

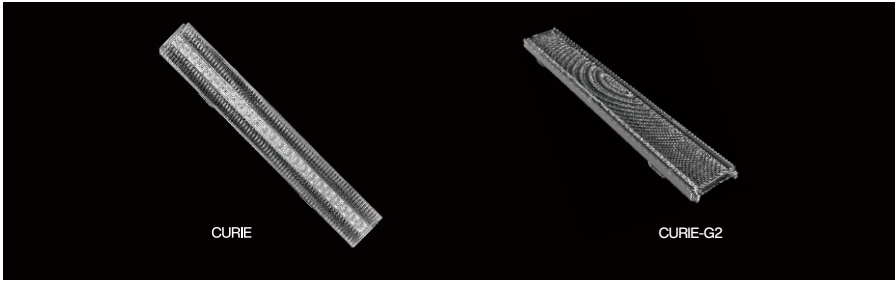
16\*16mm lens, easily seal protection function for outdoor lighting to reach IP68 by potting glue. The economical version of the HERTZ series. Optimized for CREE XP-E, compatible with 3030 size LED packages.

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



KIRCHHOFF

# Linear Lenses

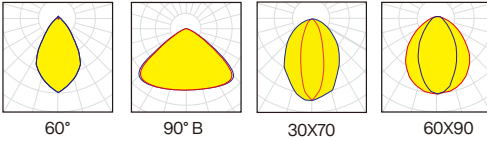


## CURIE

### CURIE

280x43mm linear lens, optimized for 3030 size LED package. Compatible with 2835 LED package. Fit for 24mm wide ZHAGA PCB

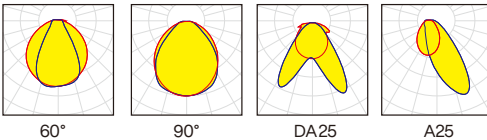
Name	Dimensions	Led Qty	Typ.FWHM	Typ.Eff.
CURIE-24-60	280X43	24	60	90
CURIE-24-90B	280X43	24	90	89
CURIE-24-30X70	280X43	24	30X70	89
CURIE-XX-60X90	280X43	XX	60X90	90



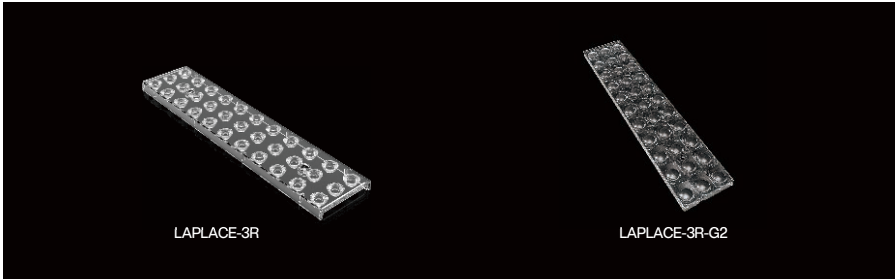
### CURIE-G2

280x40mm 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



## Linear Lenses



### LAPLACE-3R

#### LAPLACE-3R

285x62mm 3-row (3x1) 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

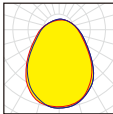
#### LAPLACE-3R-G2

285x62mm 3-row (3x1) linear lenses, Fresnel optics design base on 2835 size LED package. Compatible with 2835 LED package. Fit for ZHAGA 3 rows PCB.

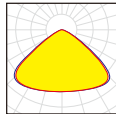
Name	Dimensions	Led Qty	Typ.FWHM	Typ.Eff.
LAPLACE-3R-33-60_G2	286X61	33	60	92.5
LAPLACE-3R-33-90B_G2	286X61	33	90	92.5



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

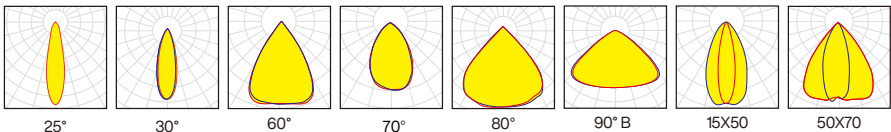
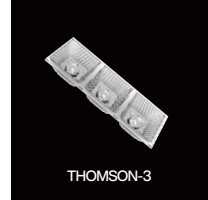
280×10mm linear lens, optimized for SMD2835/3030 LED package

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



## 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

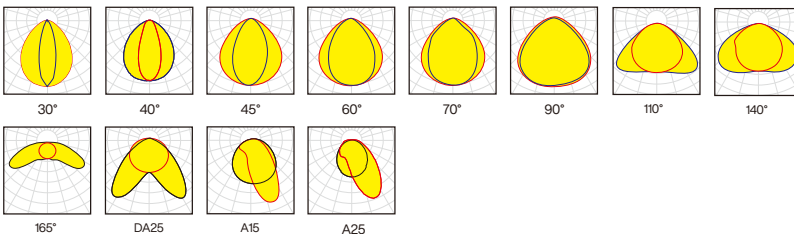
Width: 26mm, fit 24mm ZHAGA PCB, length customized, design for 3030 size LED package, compatible with 2835 size LED package.

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



## 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	<b>NEW</b>	D9.34	30-35	75	LUXEON 3030	85
KEPLER-D11.5	<b>NEW</b>	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	<b>NEW</b>	D13.5	20-30	Px80 , Py90	LUXEON 3030 SQUARE	90
KEPLER-D13.5		D13.5	20-30	Px80 , Py90	SAMSUNG 2835	93



### KEPLER-T

TV Backlight (Refraction type)

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



### KEPLER-F

TV Backlight (Reflection type)

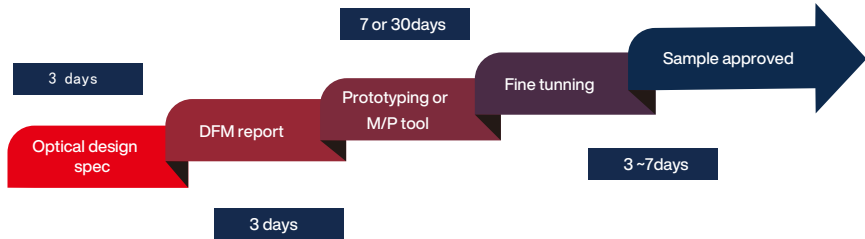
Name		D	OD	LED spacing	Led	Typ.Eff.
KEPLER-F-D17	<b>NEW</b>	D17	18/22	Px145 , Py145	LUXEON 3030 SQUARE	90



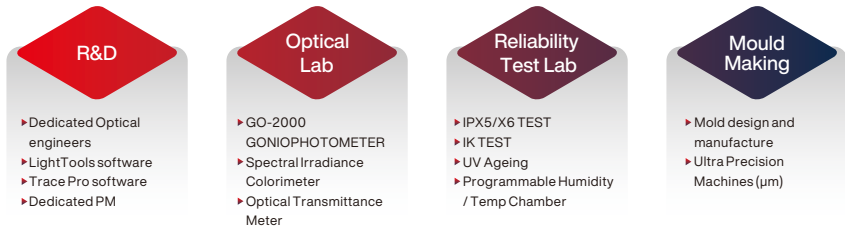
## SunLumin Customize Solution

### Research & Development

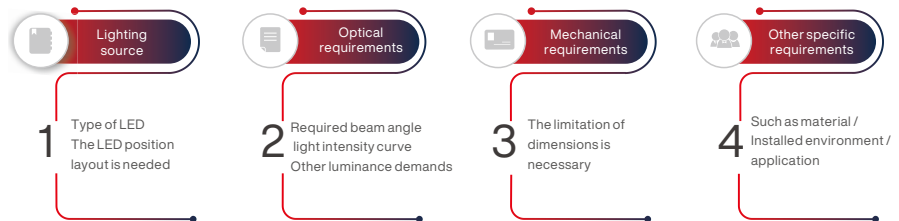
Dedicated optical engineers  
 Dedicated mechanical engineers  
 Dedicated project management engineers  
 Turn around time: within 16-43 days



### Customize Advantage



### Customization





# SunLumin

Your Optical  
Solution Partner

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[info@sunlumin-optics.com](mailto:info@sunlumin-optics.com)



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