

# SunLumin<sup>®</sup>

Your Optical  
Solution Partner



2024  
Autumn Version

CATALOGUE

# Content

## 01

Customize Solution 02

## 02

### Street & Area Lighting

|                          |    |
|--------------------------|----|
| MAXWELL FAMILY           |    |
| MAXWELL-4-G1             | 05 |
| MAXWELL-4-G2             | 05 |
| MAXWELL-6-G1             | 05 |
| MAXWELL-6-G2             | 06 |
| MAXWELL-6-G3             | 06 |
| MAXWELL-8-G1             | 06 |
| MAXWELL-8-G2             | 06 |
| MAXWELL-8-G3             | 06 |
| MAXWELL-8-G4             | 07 |
| MAXWELL-10-G1            | 07 |
| MAXWELL-10-G2            | 07 |
| MAXWELL-12-G1            | 07 |
| MAXWELL-12-G2            | 07 |
| MAXWELL-12-G3            | 07 |
| MAXWELL-14-G1            | 08 |
| MAXWELL-16-G1            | 08 |
| MAXWELL-16-G2            | 08 |
| MAXWELL-24-G1            | 08 |
| ROENTGEN                 | 09 |
| TESLA                    | 09 |
| FRANKLIN FAMILY          |    |
| FRANKLIN-G1              | 09 |
| FRANKLIN-G2              | 09 |
| FRANKLIN-G3              | 09 |
| FERMI FAMILY             |    |
| FERMI-27                 | 10 |
| FERMI-46                 | 10 |
| FARADAY FAMILY           |    |
| FARADAY-G2               | 10 |
| FARADAY-28               | 10 |
| FARADAY-64               | 10 |
| GALILEO                  | 11 |
| GAUSSIAN                 | 11 |
| DESCARTES                | 11 |
| RUTHERFORD               | 11 |
| <b>03</b>                |    |
| <b>Sports Light Lens</b> |    |
| ARISTOTLE FAMILY         |    |
| ARISTOTLE-68             | 12 |
| ARISTOTLE-336            | 12 |
| ARISTOTLE-230            | 12 |
| HAWKING                  | 12 |

## 04

### UFO Light lens

|                 |    |
|-----------------|----|
| OSTER-HE FAMILY | 13 |
| OSTER FAMILY    | 14 |
| OSTER-ZM        | 14 |
| GROSSMANN       | 14 |

## 05

### Architecture Lighting

|                 |    |
|-----------------|----|
| DARWIN FAMILY   |    |
| DARWIN          | 15 |
| DARWIN-16       | 15 |
| HILBERT FAMILY  |    |
| HILBERT         | 15 |
| HILBERT-G2      | 15 |
| HILBERT-G3      | 15 |
| AMPERE FAMILY   |    |
| AMPERE          | 16 |
| AMPERE-RGBW     | 16 |
| AMPERE-9        | 16 |
| HEISENBERG      | 16 |
| LENARD          | 16 |
| LONGPING FAMILY |    |
| LONGPING-G1     | 17 |
| LONGPING-G2     | 17 |
| EDISON FAMILY   |    |
| EDISON          | 17 |
| EDISON-RGBW     | 17 |
| EINSTEIN FAMILY |    |
| EINSTEIN        | 18 |
| EINSTEIN-6      | 18 |
| HERTZ           | 18 |
| HUYGENS         | 18 |
| BORN            | 18 |
| NOBEL FAMILY    |    |
| NOBEL-G1        | 19 |
| NOBEL-G2        | 19 |
| NOBEL-G3        | 19 |
| LAMBERT         | 19 |
| SCHRODINGER     | 19 |
| BELL            | 20 |
| HOOK            | 20 |
| KIRCHHOFF       | 20 |
| DOPPLER         | 20 |
| BOHR            | 20 |
| PAVLOV          | 20 |

## 06

### Linear Lenses

|                |    |
|----------------|----|
| OEERSTED       | 21 |
| CURIE          | 21 |
| LAPLACE-3R     | 21 |
| THOMSON FAMILY |    |
| THOMSON-3      | 22 |
| THOMSON-4      | 22 |
| THOMSON-7      | 22 |
| DAVY           | 22 |
| AVOGADRO       | 22 |

## 07

### Commercial Lighting

|                  |         |
|------------------|---------|
| DALTON FAMILY    | 23      |
| LENZ             | 24      |
| VOLTA            | 24      |
| YOUYOU-G2 FAMILY | 24      |
| YOUYOU FAMILY    | 25      |
| HUBBLE FAMILY    | 25      |
| EULER FAMILY     | 26 & 27 |
| NEWTON           | 27      |
| ARCHIMEDES       | 27      |

## 08

### LED Backlight & TV Lens

|               |    |
|---------------|----|
| KEPLER FAMILY |    |
| KEPLER        | 28 |
| KEPLER-T      | 28 |
| KEPLER-F      | 28 |

## 09

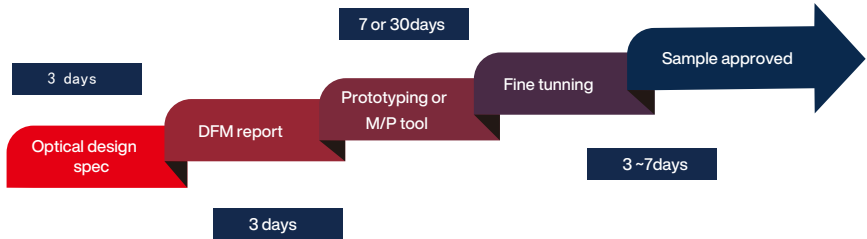
### Glass Light Lens

|                 |    |
|-----------------|----|
| LIPPMANN FAMILY |    |
| LIPPMANN-D78    | 29 |
| LIPPMANN-D92    | 29 |
| ZEEMAN FAMILY   |    |
| ZEEMAN-10       | 29 |
| ZEEMAN-12       | 29 |

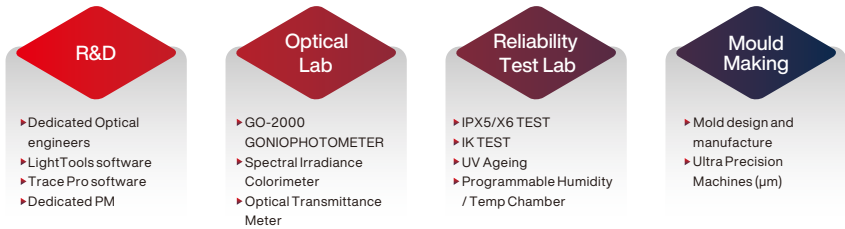
# SunLumin Customize Solution

## Research & Development

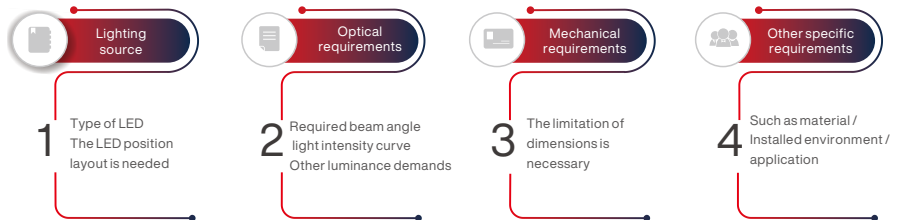
Dedicated optical engineers  
Dedicated mechanical engineers  
Dedicated project management engineers  
Turn around time: within 16-43 days



## Customize Advantage



## Customization



# Contact Us

## Sales Representatives

|                 |                   |                                  |                    |
|-----------------|-------------------|----------------------------------|--------------------|
| Brazil          | Fabio Takanohashi | ftakanohashi@sunlumin-optics.com | +55 11 9 3020 0650 |
| Brazil          | Aline Nunes       | aline@sunlumin-optics.com        | +55 11 9 4899 4028 |
| Turkey          | Zekeriya Boz      | turkey01@sunlumin-optics.com     | +90 546 2912444    |
| Russia          | Saken Jusupov     | Russia01@sunlumin-optics.com     | +7 911 758 9554    |
| Mexico          | Francisco Sanchez | mexico01@sunlumin-optics.com     | +52 833 265 0555   |
| Argentina       | Mauricio Jancic   | sunlumin@janso.com.ar            | +54 911 3644 0385  |
| Other countries | Sharon Lin        | sales05@sunlumin-optics.com      | +86 135 1043 1662  |

## Inside Sales

|       |             |                          |                   |
|-------|-------------|--------------------------|-------------------|
| China | Susie Huang | bo01@sunlumin-optics.com | +86 135 1064 2485 |
|-------|-------------|--------------------------|-------------------|

## India Office

|       |                     |                             |                   |
|-------|---------------------|-----------------------------|-------------------|
| India | R N PAL             | india01@sunlumin-optics.com | +91921 219 3569   |
| India | Engr. M. S. Hossain | sales09@sunlumin-optics.com | +86 198 9816 5750 |

## Customer Service & Complaint

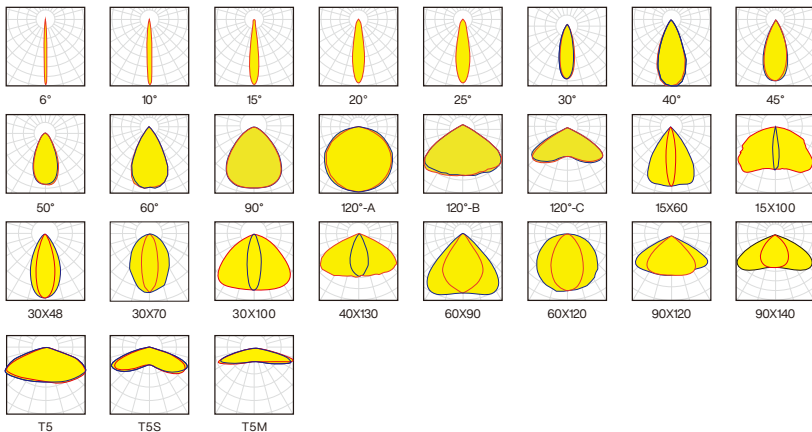
|               |  |                             |                   |
|---------------|--|-----------------------------|-------------------|
| All countries |  | service@sunlumin-optics.com | +86 185 9423 2308 |
|---------------|--|-----------------------------|-------------------|

# Common Beam Type Abbreviations

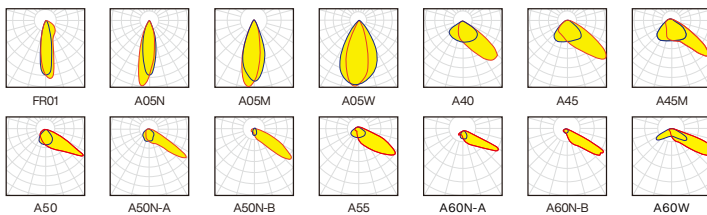
| Name                | Beam Type                      |
|---------------------|--------------------------------|
| 30, 60, 90 etc.     | beam angle in degrees          |
| A                   | Asymmetric                     |
| DA                  | Double asymmetric              |
| N                   | 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

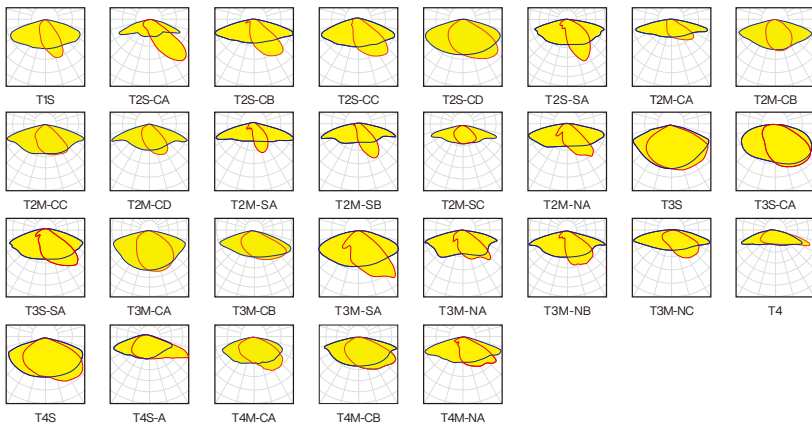
## Symmetric Light Distribution



## Asymmetric Light Distribution



## Typical Street Light Distribution



# Street & Area Lighting

## MAXWELL FAMILY

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

### MAXWELL-4-G1

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, both PC & PMMA available

| Name                | Dimensions       | Led Qty | Typ.FWHM   | Led                | Typ.Eff. |
|---------------------|------------------|---------|------------|--------------------|----------|
| MAXWELL-4-10_G1     | 50X50            | 4       | 6          | CREE XP-E          | 93       |
| MAXWELL-4-25_G1     | 50X50            | 4       | 25         | CREE XP-E          | 92       |
| MAXWELL-4-50_G1     | 50X50            | 4       | 50         | CREE XP-E          | 92       |
| MAXWELL-4-50_G1     | 50X50            | 4       | 50         | SAMSUNG LH351B     | 94       |
| MAXWELL-4-60_G1     | 50X50            | 4       | 60         | SAMSUNG LH351B     | 94       |
| MAXWELL-4-90_G1     | 50X50            | 4       | 90         | CREE XLAMP XP/XT   | 95       |
| MAXWELL-4-FR01_G1   | 50X50            | 4       | Asymmetric | SAMSUNG LH351C     | 91       |
| MAXWELL-4-T2S-CB_G1 | <b>NEW</b> 50X50 | 4       | Asymmetric | NICHIA NVSW219F-V2 | 95       |
| MAXWELL-4-A50N-A_G1 | 50X50            | 4       | Asymmetric | CREE XP-G3         | 92       |

### MAXWELL-4-G2

50 x 50 mm 2X2 arrays optimized for 5050 size LED packages. The position of LED and the positioning column meet the EU ZHAGA standard, both PC & PMMA available

| Name                | Dimensions       | Led Qty | Typ.FWHM   | Led                | Typ.Eff. |
|---------------------|------------------|---------|------------|--------------------|----------|
| MAXWELL-4-30_G2     | 50X50            | 4       | 30         | LUXEON 5050        | 91       |
| MAXWELL-4-60_G2     | 50X50            | 4       | 60         | LUXEON 5050 ROUND  | 93       |
| MAXWELL-4-90_G2     | 50X50            | 4       | 90         | LUXEON 5050 ROUND  | 93       |
| MAXWELL-4-T20-A_G2  | 50X50            | 4       | 120        | LUXEON 5050 ROUND  | 93       |
| MAXWELL-4-30X100_G2 | 50X50            | 4       | 30X100     | TD 5050            | 90       |
| MAXWELL-4-60X90_G2  | <b>NEW</b> 50X50 | 4       | 60X90      | LUXEON 5050 SQUARE | 92       |
| MAXWELL-4-T2S-CB_G2 | 50X50            | 4       | Asymmetric | TD 5050            | 97       |
| MAXWELL-4-T2M-CA_G2 | 50X50            | 4       | Asymmetric | TD 5050            | 92       |
| MAXWELL-4-T3M-CA_G2 | 50X50            | 4       | Asymmetric | LUXEON 5050        | 97       |
| MAXWELL-4-T4M-CA_G2 | 50X50            | 4       | Asymmetric | TYF 3030X4 SQUARE  | 93       |
| MAXWELL-4-A05M_G2   | 50X50            | 4       | Asymmetric | LUXEON 5050 SQUARE | 93       |
| MAXWELL-4-A05N_G2   | 50X50            | 4       | Asymmetric | LUXEON 5050 SQUARE | 93       |
| MAXWELL-4-A05W_G2   | 50X50            | 4       | Asymmetric | LUXEON 5050 SQUARE | 93       |
| MAXWELL-4-A60W_G2   | 50X50            | 4       | Asymmetric | LUXEON 5050 SQUARE | 93       |
| MAXWELL-4-A60N-A_G2 | 50X50            | 4       | Asymmetric | LUXEON 5050        | 93       |
| MAXWELL-4-A60N-B_G2 | 50X50            | 4       | Asymmetric | LUXEON 5050 SQUARE | 93       |

### MAXWELL-6-G1

50 x 50 mm 2X3 arrays for flat 5050 size LED packages, both PC & PMMA available

| Name                | Dimensions | Led Qty | Typ.FWHM   | Led                | Typ.Eff. |
|---------------------|------------|---------|------------|--------------------|----------|
| MAXWELL-6-30_G1     | 50X50      | 6       | 30         | LUXEON 5050        | 96       |
| MAXWELL-6-60_G1     | 50X50      | 6       | 60         | LUXEON 5050        | 96       |
| MAXWELL-6-90_G1     | 50X50      | 6       | 90         | LUXEON 5050        | 96       |
| MAXWELL-6-120-C_G1  | 50X50      | 6       | 120        | LUXEON 5050        | 93       |
| MAXWELL-6-T5S_G1    | 50X50      | 6       | 140        | LUXEON 5050        | 93       |
| MAXWELL-6-60X90_G1  | 50X50      | 6       | 60X90      | LUXEON 5050 SQUARE | 92       |
| MAXWELL-6-T2M-CB_G1 | 50X50      | 6       | Asymmetric | CREE 5050          | 95       |



MAXWELL-4-G1



MAXWELL-4-G1



MAXWELL-4-G2



MAXWELL-6-G1

# Street & Area Lighting

## MAXWELL-6-G2

50 x 50 mm 6 lens arrays optimized for 4\*3030/4\*2835 size LED packages, both PC & PMMA available

| Name                | Dimensions | Led Qty | Typ.FWHM   | Led           | Typ.Eff. |
|---------------------|------------|---------|------------|---------------|----------|
| MAXWELL-6-30_G2     | 50X50      | 6       | 30         | LUXEON 3030*4 | 93       |
| MAXWELL-6-60_G2     | 50X50      | 6       | 60         | LUXEON 3030*4 | 93       |
| MAXWELL-6-90_G2     | 50X50      | 6       | 90         | LUXEON 3030*4 | 93       |
| MAXWELL-6-120-A_G2  | 50X50      | 6       | 120        | LUXEON 3030*4 | 93       |
| MAXWELL-6-T2M-CB_G2 | 50X50      | 6       | Asymmetric | OSRAM S8 5050 | 93       |
| MAXWELL-6-T3S_G2    | 50X50      | 6       | Asymmetric | LUXEON 3030*4 | 96       |
| MAXWELL-6-T4S_G2    | 50X50      | 6       | Asymmetric | LUXEON 5050   | 93       |



## MAXWELL-6-G3

50 x 50 mm 2X3 arrays optimized for 3535 size LED packages, both PC & PMMA available

| Name                | Dimensions          | Led Qty | Typ.FWHM   | Led                     | Typ.Eff. |
|---------------------|---------------------|---------|------------|-------------------------|----------|
| MAXWELL-6-T2S-CC_G3 | <b>NEW</b> 50X50    | 6       | Asymmetric | NICHIA 3535 NVSW219F-V2 | 95       |
| MAXWELL-6-T2M-NA_G3 | <b>COMING</b> 50X50 | 6       | Asymmetric | SAMSUNG LH351C          | 92       |
| MAXWELL-6-T3M-NA_G3 | <b>COMING</b> 50X50 | 6       | Asymmetric | SAMSUNG LH351C          | 92       |



## MAXWELL-8-G1

50 x 50 mm 8 lens (3+2+3) arrays optimized for flat 5050 size LED packages.both PC & PMMA available

| Name                | Dimensions       | Led Qty | Typ.FWHM   | Led                | Typ.Eff. |
|---------------------|------------------|---------|------------|--------------------|----------|
| MAXWELL-8-30_G1     | 50X50            | 8       | 30         | LUXEON 5050        | 91       |
| MAXWELL-8-60_G1     | 50X50            | 8       | 60         | LUXEON 5050        | 92       |
| MAXWELL-8-90_G1     | 50X50            | 8       | 90         | LUXEON 5050        | 92       |
| MAXWELL-8-120-A_G1  | 50X50            | 8       | 120        | LUXEON 5050        | 92       |
| MAXWELL-8-15X60-G1  | <b>NEW</b> 50X50 | 8       | 15X60      | OSRAM GW CSSRM3.PM | 89       |
| MAXWELL-8-30X48_G1  | <b>NEW</b> 50X50 | 8       | 30X48      | LUXEON 5050 HE     | 94       |
| MAXWELL-8-A50N-B_G1 | <b>NEW</b> 50X50 | 8       | Asymmetric | LUXEON 5050 HE     | 89       |
| MAXWELL-8-T2S-CD_G1 | <b>NEW</b> 50X50 | 8       | Asymmetric | LUXEON 5050 SQUARE | 95       |
| MAXWELL-8-T3M-CA_G1 | 50X50            | 8       | Asymmetric | LUXEON 5050        | 94       |
| MAXWELL-8-T4M-CA_G1 | 50X50            | 8       | Asymmetric | LUXEON 5050        | 93       |



## MAXWELL-8-G2

50 x 50 mm 8 lens (2X4) arrays optimized for flat 5050 size LED packages. both PC & PMMA available

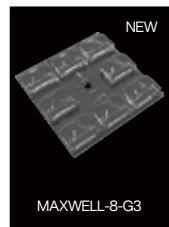
| Name                | Dimensions | Led Qty | Typ.FWHM   | Led               | Typ.Eff. |
|---------------------|------------|---------|------------|-------------------|----------|
| MAXWELL-8-60_G2     | 50X50      | 8       | 60         | LUXEON 5050       | 96       |
| MAXWELL-8-90_G2     | 50X50      | 8       | 90         | LUXEON 5050       | 96       |
| MAXWELL-8-120-C_G2  | 50X50      | 8       | 120        | LUXEON 5050       | 96       |
| MAXWELL-8-T2M-CB_G2 | 50X50      | 8       | Asymmetric | LUXEON 5050       | 95       |
| MAXWELL-8-T3M-CA_G2 | 50X50      | 8       | Asymmetric | LUXEON 5050 ROUND | 93       |



## MAXWELL-8-G3

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 stander, both PC & PMMA available

| Name                | Dimensions       | Led Qty | Typ.FWHM   | Led            | Typ.Eff. |
|---------------------|------------------|---------|------------|----------------|----------|
| MAXWELL-8-60_G3     | <b>NEW</b> 50X50 | 8       | 60         | SAMSUNG LH351B | 94       |
| MAXWELL-8-90_G3     | <b>NEW</b> 50X50 | 8       | 90         | SAMSUNG LH351B | 94       |
| MAXWELL-8-T2S-CB_G3 | <b>NEW</b> 50X50 | 8       | Asymmetric | SAMSUNG LH351C | 94       |
| MAXWELL-8-T2M-SB_G3 | <b>NEW</b> 50X50 | 8       | Asymmetric | SAMSUNG LH351C | 93       |
| MAXWELL-8-T3S-SA_G3 | <b>NEW</b> 50X50 | 8       | Asymmetric | SAMSUNG LH351C | 90       |
| MAXWELL-8-T3M-SA_G3 | <b>NEW</b> 50X50 | 8       | Asymmetric | SAMSUNG LH351C | 93       |
| MAXWELL-8-T4M-NA_G3 | <b>NEW</b> 50X50 | 8       | Asymmetric | SAMSUNG LH351C | 93       |
| MAXWELL-8-T2S-SA_G3 | <b>NEW</b> 50X50 | 8       | Asymmetric | SAMSUNG LH351C | 94       |

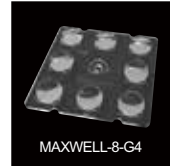


# Street & Area Lighting

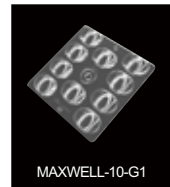
## MAXWELL-8-G4

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, both PC & PMMA available

| Name                |     | Dimensions | Led Qty | Typ.FWHM   | Led                       | Typ.Eff. |
|---------------------|-----|------------|---------|------------|---------------------------|----------|
| MAXWELL-8-30_G4     | NEW | 50X50      | 8       | 30         | LUXEON 5050 SQUARE        | 93       |
| MAXWELL-8-60_G4     | NEW | 50X50      | 8       | 60         | LUXEON 5050 SQUARE        | 93       |
| MAXWELL-8-90_G4     | NEW | 50X50      | 8       | 90         | LUXEON 5050 SQUARE        | 95       |
| MAXWELL-8-120-B_G4  | NEW | 50X50      | 8       | 120        | LUXEON 5050 SQUARE        | 95       |
| MAXWELL-8-60X90_G4  |     | 50X50      | 8       | 60X90      | LUXEON 5050 SQUARE        | 92       |
| MAXWELL-8-90X120_G4 |     | 50X50      | 8       | 90X120     | LUXEON 5050 SQUARE        | 92       |
| MAXWELL-8-T2S-CC_G4 | NEW | 50X50      | 8       | Asymmetric | LUXEON 5050 SQUARE LES 6V | 95       |
| MAXWELL-8-T4S-A_G4  | NEW | 50X50      | 8       | Asymmetric | CREE JX5050 4000K         | 83       |



MAXWELL-8-G4



MAXWELL-10-G1

## MAXWELL-10-G1

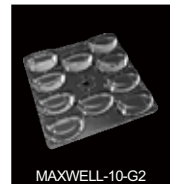
50 x 50 mm 10 lens (2X4+2) arrays optimized for flat 5050 size LED packages, both PC & PMMA available

| Name                 |  | Dimensions | Led Qty | Typ.FWHM   | Led         | Typ.Eff. |
|----------------------|--|------------|---------|------------|-------------|----------|
| MAXWELL-10-T2S-CD_G1 |  | 50X50      | 10      | Asymmetric | LUXEON 5050 | 93       |

## MAXWELL-10-G2

50 x 50 mm 10 lens (2X4+2) arrays optimized for flat 5050 size LED packages. Second generation lens, both PC & PMMA available

| Name                 |     | Dimensions | Led Qty | Typ.FWHM   | Led                | Typ.Eff. |
|----------------------|-----|------------|---------|------------|--------------------|----------|
| MAXWELL-10-T2M-SC_G2 | NEW | 50X50      | 10      | Asymmetric | LUXEON 5050 SQUARE | 92       |
| MAXWELL-10-T3M-SB_G2 | NEW | 50X50      | 10      | Asymmetric | LUXEON 5050 SQUARE | 92       |

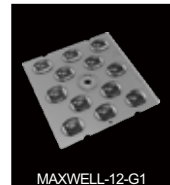


MAXWELL-10-G2

## MAXWELL-12-G1

50 x 50 mm 12 lens arrays optimized for flat 3030 size LED packages, both PC & PMMA available

| Name                 |     | Dimensions | Led Qty | Typ.FWHM   | Led                | Typ.Eff. |
|----------------------|-----|------------|---------|------------|--------------------|----------|
| MAXWELL-12-30_G1     |     | 50X50      | 12      | 30         | LUXEON 3030        | 91       |
| MAXWELL-12-60_G1     |     | 50X50      | 12      | 60         | LUXEON 3030        | 92       |
| MAXWELL-12-90_G1     |     | 50X50      | 12      | 90         | LUXEON 3030        | 92       |
| MAXWELL-12-120-A_G1  |     | 50X50      | 12      | 120        | LUXEON 3030        | 92       |
| MAXWELL-12-T2S-CD_G1 | NEW | 50X50      | 12      | Asymmetric | LUXEON 3030 SQUARE | 92       |
| MAXWELL-12-T2M-CD_G1 | NEW | 50X50      | 12      | Asymmetric | LUXEON 3030 SQUARE | 92       |
| MAXWELL-12-T3S-CA_G1 | NEW | 50X50      | 12      | Asymmetric | LUXEON 3030 SQUARE | 92       |



MAXWELL-12-G1

## MAXWELL-12-G2

50 x 50 mm 12 lens arrays optimized for flat 3030 size LED packages. Variant with improved LED distance, both PC & PMMA available

| Name                 |     | Dimensions | Led Qty | Typ.FWHM   | Led         | Typ.Eff. |
|----------------------|-----|------------|---------|------------|-------------|----------|
| MAXWELL-12-20_G2     | NEW | 50X50      | 12      | 20         | LUXEON 3030 | 94       |
| MAXWELL-12-40_G2     | NEW | 50X50      | 12      | 40         | LUXEON 3030 | 94       |
| MAXWELL-12-60_G2     | NEW | 50X50      | 12      | 60         | LUXEON 3030 | 94       |
| MAXWELL-12-90_G2     | NEW | 50X50      | 12      | 90         | LUXEON 3030 | 94       |
| MAXWELL-12-T2M-CD_G2 |     | 50X50      | 12      | Asymmetric | LUXEON 3030 | 93       |
| MAXWELL-12-T3M-SC_G2 |     | 50X50      | 12      | Asymmetric | LUXEON 3030 | 93       |



MAXWELL-12-G2

## MAXWELL-12-G3

50 x 50 mm 12 lens (2X5+2) arrays optimized for flat 5050 size LED packages, both PC & PMMA available

| Name                 |     | Dimensions | Led Qty | Typ.FWHM   | Led                | Typ.Eff. |
|----------------------|-----|------------|---------|------------|--------------------|----------|
| MAXWELL-12-T2M-SC_G3 | NEW | 50X50      | 12      | Asymmetric | LUXEON 5050 SQUARE | 97       |



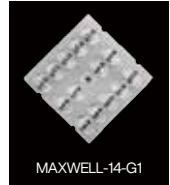
MAXWELL-12-G3

# Street & Area Lighting

## MAXWELL-14-G1

50 x 50 mm 14 lens arrays optimized for flat 3030 size LED packages, both PC & PMMA available

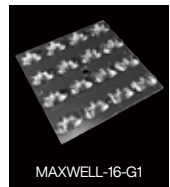
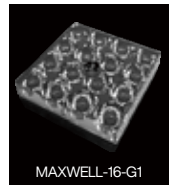
| Name                 | Dimensions | Led Qty | Typ.FWHM   | Led         | Typ.Eff. |
|----------------------|------------|---------|------------|-------------|----------|
| MAXWELL-14-30_G1     | 50X50      | 14      | 30         | LUXEON 3030 | 95       |
| MAXWELL-14-90_G1     | 50X50      | 14      | 90         | LUXEON 3030 | 93       |
| MAXWELL-14-40X130_G1 | 50X50      | 14      | 40X130     | LUXEON 3030 | 92       |
| MAXWELL-14-90X120_G1 | 50X50      | 14      | 90X120     | LUXEON 3030 | 95       |
| MAXWELL-14-T2M-CC_G1 | 50X50      | 14      | Asymmetric | LUXEON 3030 | 93       |



## MAXWELL-16-G1

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, both PC & PMMA available

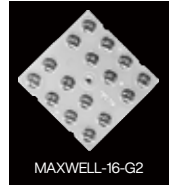
| Name                 | Dimensions | Led Qty | Typ.FWHM   | Led                 | Typ.Eff. |
|----------------------|------------|---------|------------|---------------------|----------|
| MAXWELL-16-15_G1     | NEW 50X50  | 16      | 15         | SAMSUNG LM302D      | 93       |
| MAXWELL-16-20_G1     | 50X50      | 16      | 20         | LUXEON 3030         | 96       |
| MAXWELL-16-30_G1     | NEW 50X50  | 16      | 30         | SAMSUNG LM302D      | 95       |
| MAXWELL-16-40_G1     | 50X50      | 16      | 40         | LUXEON 3030         | 93       |
| MAXWELL-16-45_G1     | 50X50      | 16      | 45         | LUXEON 3030 ROUND   | 96       |
| MAXWELL-16-60_G1     | NEW 50X50  | 16      | 60         | SAMSUNG LM302Z      | 92       |
| MAXWELL-16-90_G1     | NEW 50X50  | 16      | 90         | SAMSUNG LM302Z+     | 92       |
| MAXWELL-16-T5M_G1    | 50X50      | 16      | 150        | LUXEON 3030         | 93       |
| MAXWELL-16-A45M_G1   | 50X50      | 16      | Asymmetric | LUXEON 3030 ROUND   | 96       |
| MAXWELL-16-A50_G1    | NEW 50X50  | 16      | Asymmetric | SAMSUNG LM302D      | 95       |
| MAXWELL-16-T1S_G1    | NEW 50X50  | 16      | Asymmetric | Nichia NF2W757GR-V4 | 93       |
| MAXWELL-16-T2S-CA_G1 | NEW 50X50  | 16      | Asymmetric | Nichia NF2W757GR-V4 | 93       |
| MAXWELL-16-T2M-CB_G1 | 50X50      | 16      | Asymmetric | LUXEON 3030         | 95       |
| MAXWELL-16-T3S_G1    | 50X50      | 16      | Asymmetric | LUXEON 3030         | 92       |
| MAXWELL-16-T3M-CA_G1 | NEW 50X50  | 16      | Asymmetric | SAMSUNG LM302D      | 95       |



## MAXWELL-16-G2

50 x 50 mm 16 lens (8+8) arrays optimized for 3030 size LED packages, both PC & PMMA available

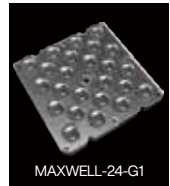
| Name                 | Dimensions | Led Qty | Typ.FWHM   | Led         | Typ.Eff. |
|----------------------|------------|---------|------------|-------------|----------|
| MAXWELL-16-15_G2     | 50X50      | 16      | 15         | LUXEON 3030 | 91       |
| MAXWELL-16-30_G2     | 50X50      | 16      | 30         | LUXEON 3030 | 91       |
| MAXWELL-16-45_G2     | 50X50      | 16      | 45         | LUXEON 3030 | 93       |
| MAXWELL-16-60_G2     | 50X50      | 16      | 60         | LUXEON 3030 | 92       |
| MAXWELL-16-90_G2     | 50X50      | 16      | 90         | LUXEON 3030 | 92       |
| MAXWELL-16-120-A_G2  | 50X50      | 16      | 150        | LUXEON 3030 | 92       |
| MAXWELL-16-A45M_G2   | 50X50      | 16      | Asymmetric | LUXEON 3030 | 95       |
| MAXWELL-16-A40_G2    | 50X50      | 16      | Asymmetric | LUXEON 3030 | 95       |
| MAXWELL-16-T2M-CD_G2 | 50X50      | 16      | Asymmetric | LUXEON 3030 | 94       |
| MAXWELL-16-T2S-CD_G2 | 50X50      | 16      | Asymmetric | LUXEON 3030 | 93       |
| MAXWELL-16-T3M-CB_G2 | 50X50      | 16      | Asymmetric | LUXEON 3030 | 93       |
| MAXWELL-16-T4M-CB_G2 | 50X50      | 16      | Asymmetric | LUXEON 3030 | 93       |



## MAXWELL-24-G1

50 x 50 mm 24 lens arrays optimized for 3030 size LED packages, both PC & PMMA available

| Name                 | Dimensions | Led Qty | Typ.FWHM   | Led                | Typ.Eff. |
|----------------------|------------|---------|------------|--------------------|----------|
| MAXWELL-24-15_G1     | NEW 50X50  | 24      | 15         | SAMSUNG LM302D     | 92       |
| MAXWELL-24-20_G1     | 50X50      | 24      | 20         | SAMSUNG LM302D     | 94       |
| MAXWELL-24-30_G1     | NEW 50X50  | 24      | 30         | LUXEON 3030 SQUARE | 92       |
| MAXWELL-24-45_G1     | 50X50      | 24      | 45         | SAMSUNG LM302D     | 94       |
| MAXWELL-24-60_G1     | 50X50      | 24      | 60         | LUXEON 3030 SQUARE | 95       |
| MAXWELL-24-90_G1     | 50X50      | 24      | 90         | LUXEON 3030 SQUARE | 93       |
| MAXWELL-24-120-B_G1  | 50X50      | 24      | 120        | LUXEON 3030 SQUARE | 92       |
| MAXWELL-24-A45_G1    | NEW 50X50  | 24      | Asymmetric | SAMSUNG LM301B     | 92       |
| MAXWELL-24-T2M-CC_G1 | 50X50      | 24      | Asymmetric | LUXEON 3030        | 93       |
| MAXWELL-24-T3M-CA_G1 | 50X50      | 24      | Asymmetric | SAMSUNG LM302D     | 94       |



## Street & Area Lighting

### ROENTGEN

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

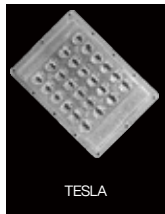
| Name              | Dimensions | Led Qty | Typ.FWHM   | Led         | Typ.Eff. |
|-------------------|------------|---------|------------|-------------|----------|
| ROENTGEN-6-T2M-CB | 62X30      | 6       | Asymmetric | LUXEON 5050 | 95       |



### TESLA

135X100mm ingress protected 24 lens arrays with a silicone gasket for up to flat 5050 size LED packages

| Name            | Dimensions | Led Qty | Typ.FWHM   | Led         | Typ.Eff. |
|-----------------|------------|---------|------------|-------------|----------|
| TESLA-24-60     | 135X100    | 24      | 60         | LUXEON 5050 | 93       |
| TESLA-24-90     | 135X100    | 24      | 90         | LUXEON 5050 | 93       |
| TESLA-24-T2M-CA | 135X100    | 24      | Asymmetric | LUXEON 5050 | 96       |



### FRANKLIN FAMILY

173 x 71 mm modular solutions. The most versatile modular product family especially designed for street lighting and area lighting, but also suitable for wide range of other applications. The standardized modules are available in 2X6 ,3X8 and 4X6 layouts. 3x8 arrays variant with beam direction rotated 90°

#### FRANKLIN-G1

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   | Led                | Typ.Eff. |
|-----------------------|------------|---------|------------|--------------------|----------|
| FRANKLIN-12-30_G1     | 173X71     | 12      | 30         | LUXEON 5050        | 95       |
| FRANKLIN-12-60_G1     | 173X71     | 12      | 60         | LUXEON 5050        | 95       |
| FRANKLIN-12-90_G1     | 173X71     | 12      | 90         | LUXEON 5050        | 95       |
| FRANKLIN-12-T2S-CB_G1 | 173X71     | 12      | Asymmetric | LUXEON 5050        | 93       |
| FRANKLIN-12-T2M-CA_G1 | 173X71     | 12      | Asymmetric | LUXEON 5050        | 94       |
| FRANKLIN-12-T3M-CA_G1 | 173X71     | 12      | Asymmetric | LUXEON 5050 SQUARE | 93       |



#### FRANKLIN-G2

173 x 71 mm ingress protected 3X8 arrays with a silicone gasket for up to flat 5050 size LED packages

| Name                  | Dimensions        | Led Qty | Typ.FWHM   | Led                       | Typ.Eff. |
|-----------------------|-------------------|---------|------------|---------------------------|----------|
| FRANKLIN-24-30_G2     | <b>NEW</b> 173X71 | 24      | 30         | LUXEON 5050 SQUARE LES 6V | 93       |
| FRANKLIN-24-60_G2     | <b>NEW</b> 173X71 | 24      | 60         | LUXEON 5050 SQUARE LES 6V | 93       |
| FRANKLIN-24-90_G2     | <b>NEW</b> 173X71 | 24      | 90         | LUXEON 5050 SQUARE LES 6V | 93       |
| FRANKLIN-24-T2M-CB_G2 | 173X71            | 24      | Asymmetric | LUXEON 5050               | 94       |
| FRANKLIN-24-T4_G2     | <b>NEW</b> 173X71 | 24      | Asymmetric | LUXEON 5050 SQUARE        | 89       |



#### FRANKLIN-G3

173 x 71 mm ingress protected 4X6 arrays with a silicone gasket for up to flat 5050 size LED packages

| Name                  | Dimensions | Led Qty | Typ.FWHM   | Led         | Typ.Eff. |
|-----------------------|------------|---------|------------|-------------|----------|
| FRANKLIN-24-T2M-CC_G3 | 173X71     | 24      | Asymmetric | LUXEON 5050 | 92       |



# Street & Area Lighting

## FERMI FAMILY

IESNA Type II Medium Cut off modular solutions

### 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   | Led                | Typ.Eff. |
|-----------------|------------|---------|------------|--------------------|----------|
| FERMI-27-T2M-CD | 220X78     | 27      | Asymmetric | LUXEON 5050 SQUARE | 90       |

### FERMI-46

220X110mm ingress protected 46 lens arrays with a silicone gasket for up to flat 5050 size LED packages

| Name            | Dimensions | Led Qty | Typ.FWHM   | Led                | Typ.Eff. |
|-----------------|------------|---------|------------|--------------------|----------|
| FERMI-46-T2M-CD | 220X110    | 46      | Asymmetric | LUXEON 5050 SQUARE | 93       |

## FARADAY FAMILY

236 x 70 mm modular solutions

### FARADAY-G2

234 x 70 mm ingress protected 80 lens arrays with a silicone gasket for up to flat 3030 size LED packages

| Name                | Dimensions        | Led Qty | Typ.FWHM | Led            | Typ.Eff. |
|---------------------|-------------------|---------|----------|----------------|----------|
| FARADAY-80-60_G2    | <b>NEW</b> 234X70 | 80      | 60       | LUXEON 3030 HE | 94       |
| FARADAY-80-90_G2    | 234X70            | 80      | 90       | LUXEON 3030    | 93       |
| FARADAY-80-35X95_G2 | 234X70            | 80      | 35X95    | LUXEON 3030    | 93       |

### FARADAY-28

236 x 70 mm ingress protected 28 lens arrays with a silicone gasket for up to flat 5050 size LED packages

| Name              | Dimensions        | Led Qty | Typ.FWHM   | Led         | Typ.Eff. |
|-------------------|-------------------|---------|------------|-------------|----------|
| FARADAY-28-30     | <b>NEW</b> 236X70 | 28      | 30         | LUXEON 5050 | 92       |
| FARADAY-28-60     | 236X70            | 28      | 60         | LUXEON 5050 | 92       |
| FARADAY-28-90     | 236X70            | 28      | 90         | LUXEON 5050 | 92       |
| FARADAY-28-T2S-CD | 236X70            | 28      | Asymmetric | LUXEON 5050 | 93       |
| FARADAY-28-T2M-SB | 236X70            | 28      | Asymmetric | LUXEON 5050 | 93       |
| FARADAY-28-T3M-NC | 236X70            | 28      | Asymmetric | LUXEON 5050 | 93       |
| FARADAY-28-A55    | 236X70            | 28      | Asymmetric | LUXEON 5050 | 93       |

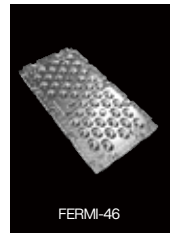
### FARADAY-64

236 x 70 mm ingress protected 64 lens arrays with a silicone gasket for up to flat 3030 size LED packages

| Name              | Dimensions        | Led Qty | Typ.FWHM   | Led         | Typ.Eff. |
|-------------------|-------------------|---------|------------|-------------|----------|
| FARADAY-64-30     | <b>NEW</b> 236X70 | 64      | 30         | LUXEON 3030 | 93       |
| FARADAY-64-60     | 236X70            | 64      | 60         | LUXEON 3030 | 93       |
| FARADAY-64-90     | 236X70            | 64      | 90         | LUXEON 3030 | 93       |
| FARADAY-64-70X120 | 236X70            | 64      | 70X120     | LUXEON 3030 | 93       |
| FARADAY-64-90X120 | 236X70            | 64      | 90X120     | LUXEON 3030 | 93       |
| FARADAY-64-T2S-CC | 236X70            | 64      | Asymmetric | LUXEON 3030 | 93       |
| FARADAY-64-T2M-CB | 236X70            | 64      | Asymmetric | LUXEON 3030 | 93       |



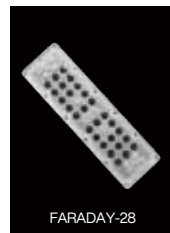
FERMI-27



FERMI-46



FARADAY-G2

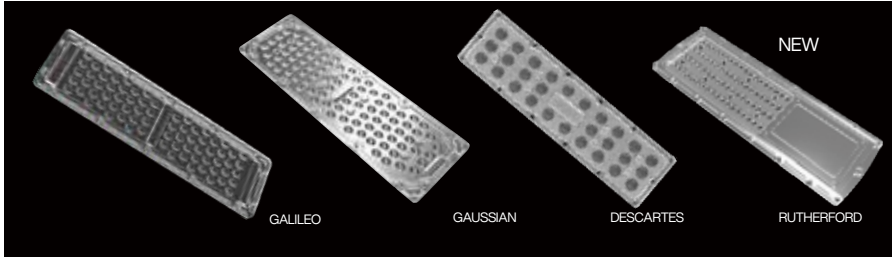


FARADAY-28



FARADAY-64

## Street &amp; Area Lighting



## GALILEO

250X74mm ingress protected 72 lens arrays with a silicone gasket for up to flat 3030 size LED packages

| Name              | Dimensions | Led Qty | Typ.FWHM   | Led         | Typ.Eff. |
|-------------------|------------|---------|------------|-------------|----------|
| GALILEO-72-60     | 250 X 74   | 72      | 60         | LUXEON 3030 | 93       |
| GALILEO-72-T2S-CC | 250 X 74   | 72      | Asymmetric | LUXEON 3030 | 93       |

## GAUSSIAN

256X78mm ingress protected 90 lens arrays with a silicone gasket for up to flat 3030 size LED packages

| Name               | Dimensions | Led Qty | Typ.FWHM   | Led         | Typ.Eff. |
|--------------------|------------|---------|------------|-------------|----------|
| GAUSSIAN-90-60     | 256X78     | 90      | 60         | LUXEON 3030 | 93       |
| GAUSSIAN-90-90     | 256X78     | 90      | 90         | LUXEON 3030 | 93       |
| GAUSSIAN-90-120-A  | 256X78     | 90      | 120        | LUXEON 3030 | 93       |
| GAUSSIAN-90-60X120 | 256X78     | 90      | 60X120     | LUXEON 3030 | 93       |
| GAUSSIAN-90-65X130 | 256X78     | 90      | 65X130     | LUXEON 3030 | 93       |
| GAUSSIAN-90-70X30  | 256X78     | 90      | 70X30      | LUXEON 3030 | 93       |
| GAUSSIAN-90-120X60 | 256X78     | 90      | 120X60     | LUXEON 3030 | 93       |
| GAUSSIAN-90-140X90 | 256X78     | 90      | 140X90     | LUXEON 3030 | 93       |
| GAUSSIAN-90-T2M-CB | 256X78     | 90      | Asymmetric | LUXEON 3030 | 93       |

## DESCARTES

270X75 mm ingress protected 28 lens arrays with a silicone gasket for up to flat 5050 size LED packages

| Name                | Dimensions | Led Qty | Typ.FWHM   | Led               | Typ.Eff. |
|---------------------|------------|---------|------------|-------------------|----------|
| DESCARTES-28-50     | 270X75     | 28      | 50         | LUXEON 5050 ROUND | 92       |
| DESCARTES-28-70     | 270X75     | 28      | 70         | LUXEON 5050 ROUND | 92       |
| DESCARTES-28-90     | 270X75     | 28      | 90         | LUXEON 5050 ROUND | 92       |
| DESCARTES-28-T5     | 270X75     | 28      | 140        | LUXEON 5050 ROUND | 92       |
| DESCARTES-28-T2M-CB | 270X75     | 28      | Asymmetric | LUXEON 5050 ROUND | 92       |

## RUTHERFORD

These series ingress protected power supply chamber and light source chamber with a silicone gasket optimized for flat 3030 size LED packages

| Name                  | Dimensions  | Led Qty | Typ.FWHM   | Led             | Typ.Eff. |
|-----------------------|-------------|---------|------------|-----------------|----------|
| RUTHERFORD-72-T2S-CD  | NEW 325x110 | 72      | Asymmetric | SAMSUNG LM302Z+ | 94       |
| RUTHERFORD-120-T2S-CD | NEW 375x128 | 120     | Asymmetric | SAMSUNG LM302Z+ | 94       |
| RUTHERFORD-192-T2S-CD | NEW 433x145 | 192     | Asymmetric | SAMSUNG LM302Z+ | 94       |

# Sports Light Lens

ARISTOTLE and HAWKING modular solutions, the most versatile modular product family especially designed for the standards and requirements of different stadium.

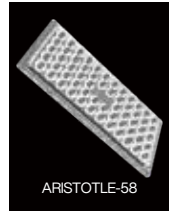
## ARISTOTLE FAMILY

SHOEBOX

### ARISTOTLE-58

252X119mm ingress protected 58 lens arrays with a silicone gasket optimized for flat 5050 size LED packages.

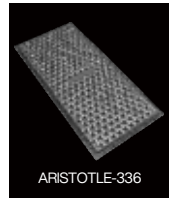
| Name             | Dimensions | Led Qty | Typ.FWHM | Led         | Typ.Eff. |
|------------------|------------|---------|----------|-------------|----------|
| ARISTOTLE-58-30  | 252X119    | 58      | 30       | LUXEON 5050 | 93       |
| ARISTOTLE-58-60  | 252X119    | 58      | 60       | LUXEON 5050 | 93       |
| ARISTOTLE-XX-120 | 252X119    | XX      | 120      | LUXEON 5050 | 93       |



### ARISTOTLE-336

360X172mm ingress protected 336 lens arrays with a silicone gasket optimized for flat 3030 size LED packages.

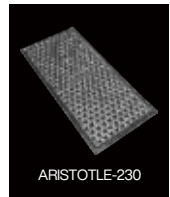
| Name             | Dimensions  | Led Qty | Typ.FWHM | Led                | Typ.Eff. |
|------------------|-------------|---------|----------|--------------------|----------|
| ARISTOTLE-336-18 | 360X172     | 336     | 18       | LUXEON 3030        | 93       |
| ARISTOTLE-336-25 | 360X172     | 336     | 25       | LUXEON 3030        | 93       |
| ARISTOTLE-336-45 | NEW 360X172 | 336     | 45       | LUXEON 3030 SQUARE | 93       |
| ARISTOTLE-336-60 | 360X172     | 336     | 60       | LUXEON 3030        | 93       |
| ARISTOTLE-XX-120 | 360X172     | XX      | 120      | LUXEON 3030        | 93       |



### ARISTOTLE-230

481X231mm ingress protected 230 lens arrays with a silicone gasket optimized for up to flat 5050 size LED packages.

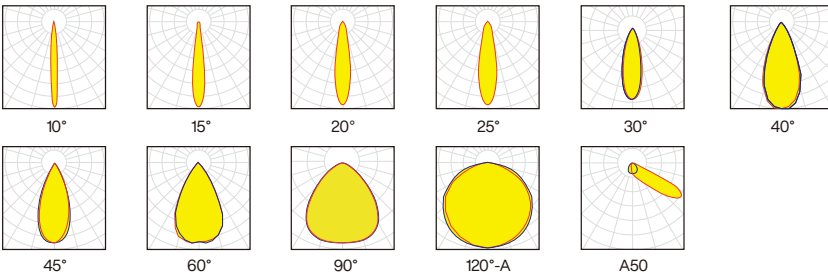
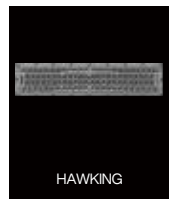
| Name             | Dimensions  | Led Qty | Typ.FWHM | Led         | Typ.Eff. |
|------------------|-------------|---------|----------|-------------|----------|
| ARISTOTLE-230-15 | NEW 481X231 | 230     | 15       | OSRAM-P3737 | 93       |
| ARISTOTLE-230-30 | 481X231     | 230     | 30       | LUXEON 5050 | 93       |
| ARISTOTLE-230-60 | 481X231     | 230     | 60       | LUXEON 5050 | 93       |
| ARISTOTLE-XX-120 | 481X231     | XX      | 120      | LUXEON 5050 | 93       |



## HAWKING

520X116mm ingress protected 96 lens arrays with a silicone gasket for up to flat 5050 size LED packages

| Name           | Dimensions  | Led Qty | Typ.FWHM   | Led         | Typ.Eff. |
|----------------|-------------|---------|------------|-------------|----------|
| HAWKING-96-10  | NEW 520X116 | 96      | 10         | OSRAM-P3737 | 90       |
| HAWKING-96-20  | 520X116     | 96      | 20         | LUXEON 5050 | 90       |
| HAWKING-96-40  | 520X116     | 96      | 40         | LUXEON 5050 | 90       |
| HAWKING-96-60  | 520X116     | 96      | 60         | LUXEON 5050 | 90       |
| HAWKING-96-90  | 520X116     | 96      | 90         | LUXEON 5050 | 93       |
| HAWKING-96-A50 | 520X116     | 96      | Asymmetric | LUXEON 5050 | 93       |



# UFO Light Lens

The round lens modular solutions, the most versatile modular product family especially designed for industrial lighting, delivers low UGR for high visual comfort applications.

## OSTER-HE FAMILY

The most popular UFO lens series delivers high optical efficiency with the convex lens structure and free arrangement of lamp beads. Sensor hole is optional.

### OSTER-HE-D184

Ø184 mm round lens

| Name                       | Dimensions | Led Qty | Typ.FWHM | Led                | Typ.Eff. |
|----------------------------|------------|---------|----------|--------------------|----------|
| OSTER-HE-D184-6R-60-A-B26  | D184       | XX      | 60       | LUXEON 2835        | 96       |
| OSTER-HE-D184-4R-60-A-K56  | D184       | XX      | 60       | LUXEON 2835        | 96       |
| OSTER-HE-D184-6R-90-A-B26  | D184       | XX      | 90       | LUXEON 2835        | 96       |
| OSTER-HE-D184-4R-90-A-K56  | D184       | XX      | 90       | LUXEON 2835        | 96       |
| OSTER-HE-D184-4R-120-B-K56 | D184       | XX      | 110      | LUXEON 3030 SQUARE | 94       |
| OSTER-HE-D184-XX-120-A-B26 | NEW D184   | XX      | 120      | LUXEON 3030 SQUARE | 94       |



OSTER-HE-D184

### OSTER-HE-D226

Ø226 mm round lens

| Name                       | Dimensions | Led Qty | Typ.FWHM | Led         | Typ.Eff. |
|----------------------------|------------|---------|----------|-------------|----------|
| OSTER-HE-D226-7R-60-A-B26  | D226       | XX      | 60       | LUXEON 2835 | 96       |
| OSTER-HE-D226-6R-60-A-K56  | D226       | XX      | 60       | LUXEON 2835 | 96       |
| OSTER-HE-D226-7R-90-A-B26  | D226       | XX      | 90       | LUXEON 2835 | 96       |
| OSTER-HE-D226-6R-90-A-K56  | D226       | XX      | 90       | LUXEON 2835 | 96       |
| OSTER-HE-D226-XX-120-A-B26 | D226       | XX      | 120      | LUXEON 2835 | 96       |
| OSTER-HE-D226-XX-120-A-K56 | D226       | XX      | 120      | LUXEON 2835 | 96       |



OSTER-HE-D226

### OSTER-HE-D263

Ø263 mm round lens

| Name                       | Dimensions | Led Qty | Typ.FWHM | Led         | Typ.Eff. |
|----------------------------|------------|---------|----------|-------------|----------|
| OSTER-HE-D263-10R-60-A-B26 | D263       | XX      | 60       | LUXEON 3030 | 93       |
| OSTER-HE-D263-7R-90-A-K70  | D263       | XX      | 85       | LUXEON 3030 | 93       |
| OSTER-HE-D263-10R-90-A-B26 | D263       | XX      | 85       | LUXEON 3030 | 93       |



OSTER-HE-D263

### OSTER-HE-D265

Ø265 mm round lens

| Name                       | Dimensions | Led Qty | Typ.FWHM | Led                | Typ.Eff. |
|----------------------------|------------|---------|----------|--------------------|----------|
| OSTER-HE-D265-8R-60-A-B26  | D265       | XX      | 60       | LUXEON 2835        | 96       |
| OSTER-HE-D265-8R-60-A-K56  | D265       | XX      | 60       | LUXEON 2835        | 96       |
| OSTER-HE-D265-7R-60-A-B49  | NEW D265   | XX      | 60       | SAMSUNG LM281B     | 92       |
| OSTER-HE-D265-8R-90-A-B26  | D265       | XX      | 90       | LUXEON 2835        | 96       |
| OSTER-HE-D265-8R-90-A-K56  | D265       | XX      | 90       | LUXEON 2835        | 96       |
| OSTER-HE-D265-7R-90-A-B49  | NEW D265   | XX      | 90       | SAMSUNG LM281B     | 92       |
| OSTER-HE-D265-XX-120-A-B26 | D265       | XX      | 120      | LUXEON 3030        | 96       |
| OSTER-HE-D265-7R-120-B-K56 | NEW D265   | XX      | 120      | LUXEON 3030 SQUARE | 94       |



OSTER-HE-D265

### OSTER-HE-D293

Ø293 mm round lens

| Name                       | Dimensions | Led Qty | Typ.FWHM | Led                | Typ.Eff. |
|----------------------------|------------|---------|----------|--------------------|----------|
| OSTER-HE-D293-12R-60-A-B26 | NEW D293   | XX      | 60       | LUXEON 3030 SQUARE | 92       |
| OSTER-HE-D293-9R-60-A-K70  | NEW D293   | XX      | 60       | LUXEON 3030 SQUARE | 92       |
| OSTER-HE-D293-12R-90-A-B26 | NEW D293   | XX      | 90       | LUXEON 3030 SQUARE | 92       |
| OSTER-HE-D293-9R-90-A-K70  | NEW D293   | XX      | 90       | LUXEON 3030 SQUARE | 92       |



OSTER-HE-D293

# UFO Light Lens

## OSTER FAMILY

The most popular UFO lens series with many individual convex-optics, delivers low UGR.

### OSTER-D183

Ø183 mm round lens 120 lens array for industrial lighting.

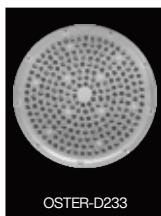
| Name                    | Dimensions | Led Qty | Typ.FWHM | Led                  | Typ.Eff. |
|-------------------------|------------|---------|----------|----------------------|----------|
| OSTER-D183-120-60-B-B17 | D183       | 120     | 60       | OSRAM OSCONIQ S 3030 | 90       |
| OSTER-D183-120-90-B-B17 | D183       | 120     | 90       | OSRAM OSCONIQ S 3030 | 90       |
| OSTER-D183-XX-120-A-B   | D183       | XX      | XX       | OSRAM OSCONIQ S 3030 | 90       |



### OSTER-D233

Ø233 mm round lens 226 lens arrays for industrial lighting.

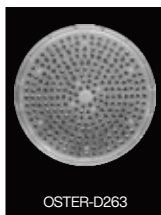
| Name                    | Dimensions | Led Qty | Typ.FWHM | Led                  | Typ.Eff. |
|-------------------------|------------|---------|----------|----------------------|----------|
| OSTER-D233-226-60-B-B17 | D233       | 226     | 60       | OSRAM OSCONIQ S 3030 | 90       |
| OSTER-D233-226-90-B-B17 | D233       | 226     | 90       | OSRAM OSCONIQ S 3030 | 90       |
| OSTER-D233-XX-120-A-B   | D233       | XX      | XX       | OSRAM OSCONIQ S 3030 | 90       |



### OSTER-D263

Ø263 mm round lens 254 lens arrays for industrial lighting.

| Name                    | Dimensions | Led Qty | Typ.FWHM | Led                  | Typ.Eff. |
|-------------------------|------------|---------|----------|----------------------|----------|
| OSTER-D263-254-60-B-B20 | D263       | 254     | 60       | OSRAM OSCONIQ S 3030 | 90       |
| OSTER-D263-254-90-B-B20 | D263       | 254     | 90       | OSRAM OSCONIQ S 3030 | 90       |
| OSTER-D263-XX-120-A-B   | D263       | XX      | XX       | OSRAM OSCONIQ S 3030 | 90       |



## OSTER-ZM

Adjustable angle UFO lens series, free switch to 60°/90°/110°.

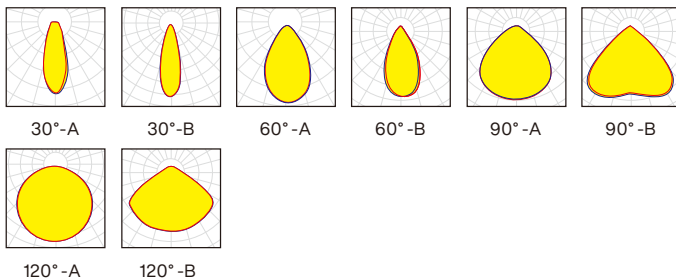
| Name                  | Dimensions | Led Qty | Typ.FWHM  | Led         | Typ.Eff. |
|-----------------------|------------|---------|-----------|-------------|----------|
| OSTER-ZM-D182-9R-B40  | D182       | XX      | 60/90/110 | HONGLI 2835 | 90       |
| OSTER-ZM-D224-12R-B52 | D224       | XX      | 60/90/110 | HONGLI 2835 | 90       |
| OSTER-ZM-D262-15R-B51 | D262       | XX      | 60/90/110 | HONGLI 2835 | 90       |



## GROSSMANN

The most versatile modular product family with a space in the middle large enough to house a built-in-driver (Driver on Board solutions).

| Name                        | Dimensions | Led Qty | Typ.FWHM | Led         | Typ.Eff. |
|-----------------------------|------------|---------|----------|-------------|----------|
| GROSSMANN-D184-3R-90-A-B76  | D184       | XX      | 90       | LUXEON 3030 | 94       |
| GROSSMANN-D226-4R-90-A-B96  | D226       | XX      | 90       | LUXEON 3030 | 94       |
| GROSSMANN-D265-5R-90-A-B109 | D265       | XX      | 90       | LUXEON 3030 | 94       |



# Architecture Lighting

## DARWIN FAMILY

Ø23.2 mm TIR-lenses optimized for CREE XP-E. Assembly with holder

### DARWIN

| Name         | D      | H     | Led       | Typ.FWHM | Typ.Eff. |
|--------------|--------|-------|-----------|----------|----------|
| DARWIN-7     | D23.22 | 12.32 | CREE XP-E | 7        | 93       |
| DARWIN-8     | D23.22 | 12.32 | CREE XP-E | 8        | 93       |
| DARWIN-10    | D23.22 | 12.32 | CREE XP-E | 10       | 93       |
| DARWIN-12    | D23.22 | 12.32 | CREE XP-E | 12       | 93       |
| DARWIN-17    | D23.22 | 12.32 | CREE XP-E | 17       | 93       |
| DARWIN-25    | D23.22 | 12.32 | CREE XP-E | 25       | 93       |
| DARWIN-40    | D23.22 | 12.32 | CREE XP-E | 40       | 93       |
| DARWIN-60    | D23.22 | 12.42 | CREE XP-E | 60       | 93       |
| DARWIN-10X20 | D23.22 | 12.2  | CREE XP-E | 10X20    | 93       |
| DARWIN-15X45 | D23.22 | 12.32 | CREE XP-E | 15X45    | 93       |
| DARWIN-20X40 | D23.22 | 12.32 | CREE XP-E | 20X40    | 93       |

### DARWIN-16

110.7 x110.7 mm 16 lens (4X4) arrays for up to 3535 LED package. Assembly with white holder

| Name          | D           | H    | Led       | Typ.FWHM | Typ.Eff. |
|---------------|-------------|------|-----------|----------|----------|
| DARWIN-16-6.8 | 110.7X110.7 | 18.2 | CREE XP-E | 6.8      | 93       |
| DARWIN-16-7.8 | 110.7X110.7 | 18.2 | CREE XP-E | 7.8      | 93       |
| DARWIN-16-9.4 | 110.7X110.7 | 18.2 | CREE XP-E | 9.4      | 93       |
| DARWIN-16-12  | 110.7X110.7 | 18.2 | CREE XP-E | 12       | 93       |
| DARWIN-16-17  | 110.7X110.7 | 18.2 | CREE XP-E | 17       | 93       |
| DARWIN-16-25  | 110.7X110.7 | 18.2 | CREE XP-E | 25       | 93       |
| DARWIN-16-40  | 110.7X110.7 | 18.2 | CREE XP-E | 40       | 93       |
| DARWIN-16-55  | 110.7X110.7 | 18.2 | CREE XP-E | 55       | 93       |

## HILBERT FAMILY

### HILBERT

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

| Name       | D              | H    | Led      | Typ.FWHM | Typ.Eff. |
|------------|----------------|------|----------|----------|----------|
| HILBERT-25 | <b>NEW</b> D22 | 14.5 | CREE XTE | 25       | 91       |

### HILBERT-G2

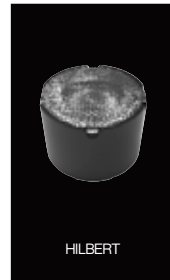
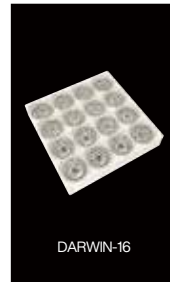
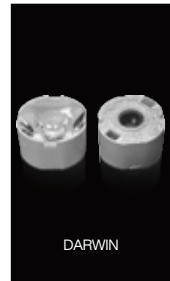
Ø22mm TIR-lenses assembled with holder. Optimized for CREE XP-G3, compatible with up to 5050 size LED packages

| Name             | D                | H    | Led        | Typ.FWHM | Typ.Eff. |
|------------------|------------------|------|------------|----------|----------|
| HILBERT-15_G2    | <b>COMING</b> 22 | 14.8 | CREE XP-G3 | 15       | 83       |
| HILBERT-25_G2    | <b>COMING</b> 22 | 14.8 | CREE XP-G3 | 25       | 80       |
| HILBERT-36_G2    | <b>COMING</b> 22 | 14.8 | CREE XP-G3 | 36       | 80       |
| HILBERT-55_G2    | <b>COMING</b> 22 | 14.8 | CREE XP-G3 | 55       | 81       |
| HILBERT-15x60_G2 | <b>COMING</b> 22 | 14.8 | CREE XP-G3 | 15x60    | 75       |

### HILBERT-G3

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

| Name             | D                  | H  | Led        | Typ.FWHM | Typ.Eff. |
|------------------|--------------------|----|------------|----------|----------|
| HILBERT-15_G3    | <b>COMING</b> 16.1 | 10 | CREE XP-G3 | 15       | 81       |
| HILBERT-25_G3    | <b>COMING</b> 16.1 | 10 | CREE XP-G3 | 25       | 80       |
| HILBERT-36_G3    | <b>COMING</b> 16.1 | 10 | CREE XP-G3 | 36       | 80       |
| HILBERT-55_G3    | <b>COMING</b> 16.1 | 10 | CREE XP-G3 | 55       | 80       |
| HILBERT-25x60_G3 | <b>COMING</b> 16.1 | 10 | CREE XP-G3 | 25x60    | 75       |



# Architecture Lighting

## AMPERE FAMILY

Single lens to be used as TIR only (Ø35 mm) or assembled in holder (Ø37mm).

### AMPERE

Ø37 mm TIR-lenses with holder, compatible with up to 5050 size LED packages.

| Name         | D   | H     | Led       | Typ.FWHM | Typ.Eff. |
|--------------|-----|-------|-----------|----------|----------|
| AMPERE-3     | D37 | 18.75 | CREE XP-E | 3        | 93       |
| AMPERE-7     | D37 | 18.75 | CREE XP-E | 7        | 93       |
| AMPERE-10    | D37 | 18.75 | CREE XP-E | 10       | 93       |
| AMPERE-12    | D37 | 18.75 | CREE XP-E | 12       | 93       |
| AMPERE-24    | D37 | 18.75 | CREE XP-E | 24       | 93       |
| AMPERE-25    | D37 | 18.75 | CREE XP-E | 25       | 93       |
| AMPERE-36    | D37 | 18.75 | CREE XP-E | 36       | 93       |
| AMPERE-40    | D37 | 18.75 | CREE XP-E | 40       | 93       |
| AMPERE-60    | D37 | 18.75 | CREE XP-E | 60       | 93       |
| AMPERE-10X30 | D37 | 18.75 | CREE XP-E | 10X30    | 93       |
| AMPERE-15x25 | D37 | 18.75 | CREE XP-E | 15x25    | 93       |

### AMPERE-RGBW

Ø37 mm TIR-lenses optimized for RGBW colour mixing applications, up to 5050 size RGB LED packages

| Name                | D   | H    | Led                  | Typ.FWHM | Typ.Eff. |
|---------------------|-----|------|----------------------|----------|----------|
| AMPERE-RGBW-1-24    | D95 | 15.8 | CREE XM-L COLOR 5050 | 24       | 90       |
| AMPERE-RGBW-1-36    | D35 | 15.8 | CREE XM-L COLOR 5050 | 36       | 90       |
| AMPERE-RGBW-1-13    | D37 | 20.3 | CREE XML COLOR 5050  | 13       | 93       |
| AMPERE-RGBW-1-15    | D37 | 20.3 | CREE XML COLOR 5050  | 15       | 93       |
| AMPERE-RGBW-1-40    | D37 | 20.3 | CREE XML COLOR 5050  | 40       | 93       |
| AMPERE-RGBW-1-50    | D37 | 20.3 | CREE XML COLOR 5050  | 50       | 93       |
| AMPERE-RGBW-1-60    | D37 | 19   | CREE XM-L COLOR 5050 | 60       | 93       |
| AMPERE-RGBW-1-20X30 | D37 | 20.3 | CREE XML COLOR 5050  | 20X30    | 93       |

### AMPERE-9

110.7x110.7 mm lens with holder (3X3 arrays), up to 3535 LED package.

| Name         | D           | H    | Led       | Typ.FWHM | Typ.Eff. |
|--------------|-------------|------|-----------|----------|----------|
| AMPERE-9-4   | 110.7X110.7 | 18.7 | CREE XP-E | 4        | 93       |
| AMPERE-9-7.2 | 110.7X110.7 | 18.7 | CREE XP-E | 7.2      | 93       |
| AMPERE-9-8.5 | 110.7X110.7 | 18.7 | CREE XP-E | 8.5      | 93       |
| AMPERE-9-9.2 | 110.7X110.7 | 18.7 | CREE XP-E | 9.2      | 93       |
| AMPERE-9-13  | 110.7X110.7 | 18.7 | CREE XP-E | 13       | 93       |
| AMPERE-9-20  | 110.7X110.7 | 18.7 | CREE XP-E | 20       | 93       |
| AMPERE-9-35  | 110.7X110.7 | 18.7 | CREE XP-E | 35       | 93       |
| AMPERE-9-45  | 110.7X110.7 | 18.7 | CREE XP-E | 45       | 93       |

## HEISENBERG

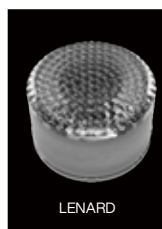
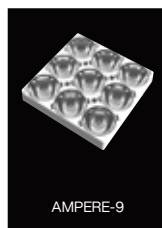
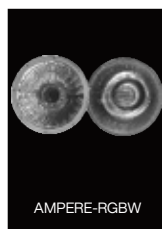
Ø10 mm TIR-lenses optimized for 3535 Mid-Power or High-Power LED packages, assembled with holder.

| Name             | D   | H    | Led                | Typ.FWHM | Typ.Eff. |
|------------------|-----|------|--------------------|----------|----------|
| HEISENBERG-15    | D10 | 7.44 | CREE XP-E          | 15       | 93       |
| HEISENBERG-24    | D10 | 7.44 | CREE J SERIES 3030 | 24       | 93       |
| HEISENBERG-36    | D10 | 7.76 | CREE J SERIES 3030 | 36       | 93       |
| HEISENBERG-25X40 | D10 | 7.78 | CREE XP-E          | 25X40    | 93       |

## LENARD

Ø14.5mm lens with seal protection function for outdoor lighting.

| Name      | D         | H    | Led                | Typ.FWHM | Typ.Eff. |
|-----------|-----------|------|--------------------|----------|----------|
| LENARD-50 | NEW D14.5 | 8.75 | LUXEON 3030 SQUARE | 50       | 88       |



# Architecture Lighting



## LONGPING FAMILY

### LONGPING-G1

Optimized for 3030 packages, compatible with 3535 Mid-Power or High-Power LED packages, with seal protection function for outdoor lighting.

| Name              | D     | H | Led         | Typ.FWHM | Typ.Eff. |
|-------------------|-------|---|-------------|----------|----------|
| LONGPING-20_G1    | D14.9 | 7 | LUXEON 3030 | 20       | 93       |
| LONGPING-30_G1    | D14.9 | 7 | LUXEON 3030 | 30       | 93       |
| LONGPING-35_G1    | D14.9 | 7 | LUXEON 3030 | 35       | 93       |
| LONGPING-30X45_G1 | D14.9 | 7 | LUXEON 3030 | 30X45    | 93       |

### LONGPING-G2

Optimized for flat 5050 packages (economical), with seal protection function for outdoor lighting.

| Name              | D     | H    | Led                | Typ.FWHM | Typ.Eff. |
|-------------------|-------|------|--------------------|----------|----------|
| LONGPING-30_G2    | D14.9 | 10.4 | CREE J SERIES 5050 | 30       | 93       |
| LONGPING-35X45_G2 | D14.9 | 10.4 | CREE J SERIES 5050 | 30X45    | 93       |

## EDISON FAMILY

### EDISON

Ø22 mm lens with seal protection function for outdoor lighting optimized for Cree XP-E

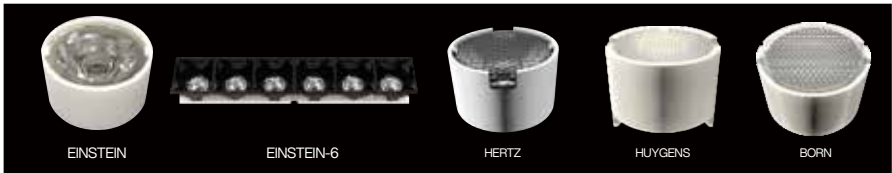
| Name         | D   | H     | Led       | Typ.FWHM | Typ.Eff. |
|--------------|-----|-------|-----------|----------|----------|
| EDISON-12    | D22 | 13.2  | CREE XP-E | 12       | 93       |
| EDISON-20    | D22 | 13.2  | CREE XP-E | 20       | 93       |
| EDISON-30    | D22 | 12.33 | CREE XP-E | 30       | 93       |
| EDISON-50    | D22 | 13.2  | CREE XP-E | 50       | 93       |
| EDISON-60    | D22 | 13.2  | CREE XP-E | 60       | 93       |
| EDISON-20X30 | D22 | 13.2  | CREE XP-E | 20X30    | 93       |
| EDISON-15X35 | D22 | 13.2  | CREE XP-E | 15X35    | 93       |
| EDISON-15X50 | D22 | 12.6  | CREE XP-E | 15X50    | 93       |
| EDISON-17X30 | D22 | 12.85 | CREE XP-E | 17X30    | 93       |
| EDISON-20X40 | D22 | 12.85 | CREE XP-E | 20X40    | 93       |

### EDISON-RGBW

Ø22 mm lens with seal protection function for outdoor lighting optimized for CLQ6A

| Name               | D   | H     | Led             | Typ.FWHM | Typ.Eff. |
|--------------------|-----|-------|-----------------|----------|----------|
| EDISON-RGBW -30    | D22 | 12.4  | CREE CLQ6A 5050 | 30       | 93       |
| EDISON-RGBW -40    | D22 | 12.4  | CREE CLQ6A 5050 | 40       | 93       |
| EDISON-RGBW -30X35 | D22 | 12.73 | CREE CLQ6A 5050 | 30X35    | 93       |

# Architecture Lighting



## EINSTEIN FAMILY

### 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    | Led       | Typ.FWHM | Typ.Eff. |
|-------------|-------|------|-----------|----------|----------|
| EINSTEIN-15 | D13.2 | 7.35 | CREE XP-E | 15       | 93       |
| EINSTEIN-35 | D13.2 | 7.35 | CREE XP-E | 35       | 93       |
| EINSTEIN-40 | D13.2 | 7.35 | CREE XP-E | 40       | 93       |
| EINSTEIN-75 | D13.2 | 7.35 | CREE XP-E | 75       | 93       |
| EINSTEIN-85 | D13.2 | 7.35 | CREE XP-E | 85       | 93       |

### EINSTEIN-6

107.6×18.5mm variant optimized for Cree XP-E. Both white / black holder and shade is available.

| Name          | D          | H    | Led       | Typ.FWHM | Typ.Eff. |
|---------------|------------|------|-----------|----------|----------|
| EINSTEIN-6-15 | 107.6X18.5 | 18.1 | CREE XP-E | 15       | 93       |
| EINSTEIN-6-20 | 107.6X18.5 | 18.1 | CREE XP-E | 20       | 93       |
| EINSTEIN-6-35 | 107.6X18.5 | 18.1 | CREE XP-E | 35       | 93       |
| EINSTEIN-6-75 | 107.6X18.5 | 18.1 | CREE XP-E | 75       | 93       |

## HERTZ

Ø15.2 mm TIR-lens optimized for 3535 medium or high power LED packages, assembled with holder

| Name        | D     | H | Led       | Typ.FWHM | Typ.Eff. |
|-------------|-------|---|-----------|----------|----------|
| HERTZ-13    | D15.2 | 9 | CREE XP-E | 13       | 93       |
| HERTZ-18    | D15.2 | 9 | CREE XP-E | 18       | 93       |
| HERTZ-25    | D15.2 | 9 | CREE XP-E | 25       | 93       |
| HERTZ-70    | D15.2 | 9 | CREE XP-E | 70       | 93       |
| HERTZ-16X35 | D15.2 | 9 | CREE XP-E | 16X35    | 93       |

## HUYGENS

Ø13.5mm TIR-lenses, assembled with holder (Ø15.3mm). Optimized for flat 5050 size LED packages & Batwing package

| Name       | D      | H    | Led           | Typ.FWHM | Typ.Eff. |
|------------|--------|------|---------------|----------|----------|
| HUYGENS-35 | D15.37 | 13.3 | CREE JR 5050R | 35       | 90       |
| HUYGENS-40 | D15.37 | 13.3 | CREE JR 5050R | 40       | 75       |
| HUYGENS-55 | D15.37 | 13.3 | CREE JR 5050R | 55       | 90       |

## BORN

Ø212 mm TIR-lenses with holder, compatible with up to 5050 size LED packages.

| Name       | D     | H     | Led       | Typ.FWHM | Typ.Eff. |
|------------|-------|-------|-----------|----------|----------|
| BORN-10    | D2123 | 12.43 | CREE XP-E | 10       | 90       |
| BORN-15    | D2123 | 12.43 | CREE XP-E | 15       | 90       |
| BORN-25    | D2123 | 12.43 | CREE XP-E | 25       | 90       |
| BORN-30    | D2123 | 12.43 | CREE XP-E | 30       | 90       |
| BORN-55    | D2123 | 12.43 | CREE XP-E | 55       | 90       |
| BORN-35X10 | D2123 | 12.43 | CREE XP-E | 35X10    | 90       |

# Architecture Lighting

## NOBEL FAMILY

Ø28.9 mm single lens, Ø31 mm with holder. Designed based on CREE XPE 3535 LED, compatible with 3030 and CREE JF5050 and Batwing package by different holder.

### NOBEL-G1

Optimized for 3535/3030 packages

| Name           | D   | H     | Led       | Typ.FWHM | Typ.Eff. |
|----------------|-----|-------|-----------|----------|----------|
| NOBEL-6_G1     | D31 | 17.15 | CREE XP-E | 6        | 93       |
| NOBEL-6.5_G1   | D31 | 17.15 | CREE XP-E | 6.5      | 93       |
| NOBEL-8.3_G1   | D31 | 17.15 | CREE XP-E | 8.3      | 93       |
| NOBEL-9_G1     | D31 | 17.15 | CREE XP-E | 9        | 93       |
| NOBEL-19_G1    | D31 | 17.15 | CREE XP-E | 19       | 93       |
| NOBEL-25_G1    | D31 | 17.15 | CREE XP-E | 25       | 93       |
| NOBEL-8X35_G1  | D31 | 17.15 | CREE XP-E | 8X35     | 93       |
| NOBEL-9X20_G1  | D31 | 17.15 | CREE XP-E | 9X20     | 93       |
| NOBEL-12X30_G1 | D31 | 17.15 | CREE XP-E | 12x30    | 93       |

### NOBEL-G2

Optimized for flat 5050 packages

| Name           | D   | H     | Led       | Typ.FWHM | Typ.Eff. |
|----------------|-----|-------|-----------|----------|----------|
| NOBEL-12_G2    | D31 | 16.45 | CREE XM-L | 12       | 93       |
| NOBEL-13_G2    | D31 | 16.45 | CREE XM-L | 13       | 93       |
| NOBEL-16_G2    | D31 | 16.45 | CREE XM-L | 16       | 93       |
| NOBEL-20_G2    | D31 | 16.45 | CREE XM-L | 20       | 93       |
| NOBEL-30_G2    | D31 | 16.45 | CREE XM-L | 30       | 93       |
| NOBEL-15X20_G2 | D31 | 16.45 | CREE XM-L | 15X20    | 93       |
| NOBEL-15X30_G2 | D31 | 16.45 | CREE XM-L | 15X30    | 93       |
| NOBEL-15X40_G2 | D31 | 16.45 | CREE XM-L | 15X40    | 93       |

### NOBEL-G3

Optimized for Batwing package

| Name           | D   | H     | Led                     | Typ.FWHM | Typ.Eff. |
|----------------|-----|-------|-------------------------|----------|----------|
| NOBEL-9.2_G3   | D31 | 18.18 | SOLDER LED PACKAGE 7575 | 9.2      | 93       |
| NOBEL-12.5_G3  | D31 | 18.18 | SOLDER LED PACKAGE 7575 | 12.5     | 93       |
| NOBEL-13_G3    | D31 | 18.18 | SOLDER LED PACKAGE 7575 | 13       | 93       |
| NOBEL-15_G3    | D31 | 18.18 | SOLDER LED PACKAGE 7575 | 15       | 93       |
| NOBEL-20_G3    | D31 | 18.18 | SOLDER LED PACKAGE 7575 | 20       | 93       |
| NOBEL-30_G3    | D31 | 18.18 | SOLDER LED PACKAGE 7575 | 30       | 93       |
| NOBEL-15X20_G3 | D31 | 18.18 | SOLDER LED PACKAGE 7575 | 15X20    | 93       |
| NOBEL-15X30_G3 | D31 | 18.18 | SOLDER LED PACKAGE 7575 | 15X30    | 93       |
| NOBEL-15X35_G3 | D31 | 18.18 | SOLDER LED PACKAGE 7575 | 15X35    | 93       |

## LAMBERT

Ø36 mm single lens designed based on CREE XP-E, compatible with 3030 size LED packages.

| Name      | D   | H     | Led       | Typ.FWHM | Typ.Eff. |
|-----------|-----|-------|-----------|----------|----------|
| LAMBERT-5 | D36 | 19.21 | CREE XPE2 | 5        | 93       |

## SCHRODINGER

Φ36.5\*45.1mm lens with holder

| Name          | D     | H     | Led      | Typ.FWHM | Typ.Eff. |
|---------------|-------|-------|----------|----------|----------|
| SCHRODINGER-3 | D36.8 | 46.38 | CREE XPE | 3        | 45       |



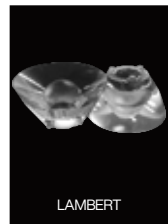
NOBEL-G1



NOBEL-G2



NOBEL-G3



LAMBERT



SCHRODINGER

# Architecture Lighting

## BELL-RGBW

Ø45 mm TIR-lenses for RGBW colour mixing applications and up to 5050 size RGB LED packages

| Name         | D   | H    | Led             | Typ.FWHM | Typ.Eff. |
|--------------|-----|------|-----------------|----------|----------|
| BELL-RGBW-10 | D45 | 26.2 | CREE XM-L COLOR | 10       | 90       |
| BELL-RGBW-15 | D45 | 27.2 | CREE XM-L COLOR | 15       | 90       |
| BELL-RGBW-24 | D45 | 27.2 | CREE XM-L COLOR | 24       | 90       |



## HOOK

Optimized for CREE XP-E 3535 and compatible with 3030 size LED package.

| Name   | D     | H    | Led       | Typ.FWHM | Typ.Eff. |
|--------|-------|------|-----------|----------|----------|
| HOOK-5 | D52.5 | 27.4 | CREE XP-E | 5        | 93       |



## KIRCHHOFF

16\*16mm lens with seal protection function for outdoor lighting. The economical version of the HERTZ series. Variant optimized for CREE XP-E, compatible with 3030 size LED packages.

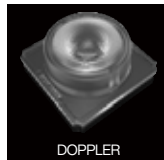
| Name         | D         | H     | Led       | Typ.FWHM | Typ.Eff. |
|--------------|-----------|-------|-----------|----------|----------|
| KIRCHHOFF-40 | NEW 16X16 | 10.15 | CREE XP-E | 40       | 85       |
| KIRCHHOFF-60 | NEW 16X16 | 10.15 | CREE XP-E | 60       |          |



## DOPPLER

Silicone lenses designed for sports field, area lighting, 35 x 35 mm single silicone lenses

| Name        | D         | H  | Led                         | Typ.FWHM | Typ.Eff. |
|-------------|-----------|----|-----------------------------|----------|----------|
| DOPPLER-160 | NEW 35X35 | 14 | LUMILEDS LXR7-RW50 5000K 6V | 60       | 93       |



## BOHR

BOHR series lens enables to illuminate windows and doors. Optimized for 3535 size LED packages.

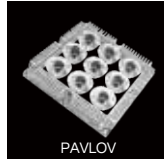
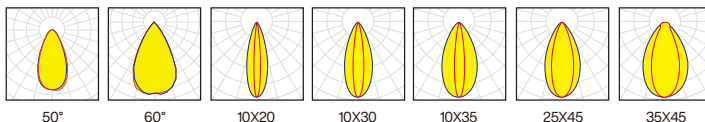
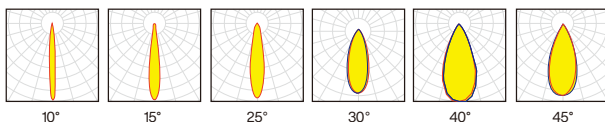
| Name                 | D     | H  | Led       | Typ.FWHM | Typ.Eff. |
|----------------------|-------|----|-----------|----------|----------|
| BOHR-55X44-XX-8X100  | 55X44 | XX | CREE XP-E | 8X100    | 93       |
| BOHR-55X44-XX-40X120 | 55X44 | XX | CREE XP-E | 40X120   | 93       |
| BOHR-D68-XX-120      | D68   | XX | CREE XP-E | 120      | 93       |



## PAVLOV

136X136mm 9in1 (array by 3 X 3) modular solutions wall washing light, optimized for 3535 medium or high power LED packages

| Name         | D       | H | Led       | Typ.FWHM | Typ.Eff. |
|--------------|---------|---|-----------|----------|----------|
| PAVLOV-9-5.5 | 136X136 | 9 | CREE XP-E | 5.5      | 93       |

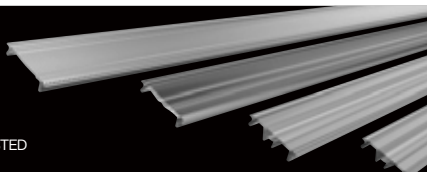


# Linear Lenses

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

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

| Name             | Dimensions     | Led Qty | Typ.FWHM   | Led                | Typ.Eff. |
|------------------|----------------|---------|------------|--------------------|----------|
| OERSTED-22-40x90 | NEW 22x400     | xx      | 40x90      | SAMSUNG LM281B+PRO | 91       |
| OERSTED-22-90x90 | NEW 22x400     | xx      | 90x90      | SAMSUNG LM281B+PRO | 88       |
| OERSTED-26-45    | NEW 26x1140    | xx      | 45x80      | SAMSUNG LM301B     | 92       |
| OERSTED-26-60    | NEW 26x1140    | xx      | 60x80      | SAMSUNG LM301B     | 92       |
| OERSTED-26-70    | COMING 26x1140 | xx      | 70x100     | SAMSUNG LM301B     | 92       |
| OERSTED-26-90    | NEW 26x1140    | xx      | 90x90      | SAMSUNG LM301B     | 88       |
| OERSTED-26-110   | COMING 26x1140 | xx      | 110x100    | SAMSUNG LM301B     | 90       |
| OERSTED-26-140   | COMING 26x1140 | xx      | 140x90     | SAMSUNG LM301B     | 84       |
| OERSTED-26-165   | COMING 26x1140 | xx      | 165x130    | SAMSUNG LM301B     | 83       |
| OERSTED-26-DA25  | NEW 26x1140    | xx      | Asymmetric | SAMSUNG LM301B     | 92       |
| OERSTED-26-A15   | NEW 26x1140    | xx      | Asymmetric | SAMSUNG LM301B     | 85       |



40x90



90x90



45°



60°



70°



90°



110°



140°



165°



DA25

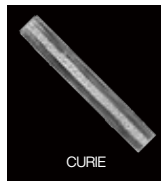


A15

## CURIE

280x43mm linear lens, optimized for SMD2835/3030 LED package. Compatible with 24mm wide ZHAGA PCB

| Name           | Dimensions | Led Qty | Typ.FWHM | Led              | Typ.Eff. |
|----------------|------------|---------|----------|------------------|----------|
| CURIE-24-60    | NEW 280X43 | 24      | 60       | LUXEON 2835      | 90       |
| CURIE-24-90    | 280X43     | 24      | 90       | LUXEON 2835 3030 | 89       |
| CURIE-24-30X70 | 280X43     | 24      | 30X70    | LUXEON 2835 3030 | 89       |
| CURIE-XX-60X90 | NEW 280X43 | XX      | 60X90    | LUXEON 2835*4    | 90       |



## LAPLACE-3R

285x62mm 3-row (3x11) linear lenses, optimized for 3030 size LED package. Compatible with ZHAGA 3R PCB.

| Name                  | Dimensions | Led Qty | Typ.FWHM | Led                | Typ.Eff. |
|-----------------------|------------|---------|----------|--------------------|----------|
| LAPLACE-3R-33-60      | 285X62     | 33      | 60       | SAMSUNG LM281B+    | 96       |
| LAPLACE-3R-33-90-A    | 285X62     | 33      | 90       | SAMSUNG LM281B+    | 94       |
| LAPLACE-3R-33-90-B_G2 | NEW 286X61 | 33      | 90       | LUXEON 3030 SQUARE | 92.5     |



# Linear Lenses

## THOMSON FAMILY

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 3X1 shade.

| Name            |     | Dimensions | Led Qty | Typ.FWHM | Led           | Typ.Eff. |
|-----------------|-----|------------|---------|----------|---------------|----------|
| THOMSON-3-60    | NEW | 120X40     | 3       | 60       | LUXEON 2835*4 | 92       |
| THOMSON-3-70    | NEW | 120X40     | 3       | 70       | LUXEON 2835*4 | 93       |
| THOMSON-3-80    | NEW | 120X40     | 3       | 80       | LUXEON 2835*4 | 83       |
| THOMSON-3-50X70 | NEW | 120X40     | 3       | 50X70    | LUXEON 2835*4 | 87       |

### THOMSON-4

160\*40mm linear solution with 4X1 shade.

| Name            |     | Dimensions | Led Qty | Typ.FWHM | Led           | Typ.Eff. |
|-----------------|-----|------------|---------|----------|---------------|----------|
| THOMSON-4-30    | NEW | 160X40     | 4       | 30       | LUXEON 5050   | 88       |
| THOMSON-4-60    | NEW | 160X40     | 4       | 60       | LUXEON 2835*4 | 83       |
| THOMSON-4-80    | NEW | 160X40     | 4       | 80       | LUXEON 2835*4 | 83       |
| THOMSON-4-50X70 | NEW | 160X40     | 4       | 50X70    | LUXEON 2835*4 | 73       |

### THOMSON-7

280\*40mm linear solution with 7X1 shade.

| Name            |     | Dimensions | Led Qty | Typ.FWHM | Led           | Typ.Eff. |
|-----------------|-----|------------|---------|----------|---------------|----------|
| THOMSON-7-30    | NEW | 280X40     | 7       | 30       | LUXEON 5050   | 88       |
| THOMSON-7-60    | NEW | 280X40     | 7       | 60       | LUXEON 2835*4 | 83       |
| THOMSON-7-50X70 | NEW | 280X40     | 7       | 50X70    | LUXEON 2835*4 | 73       |
| THOMSON-7-80    | NEW | 280X40     | 7       | 80       | LUXEON 2835*4 | 83       |

## DAVY

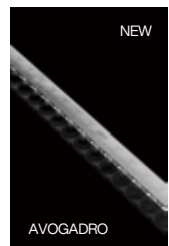
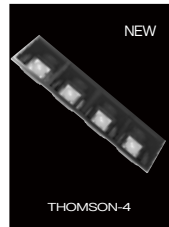
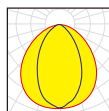
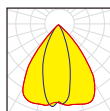
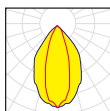
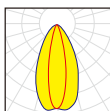
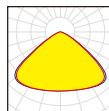
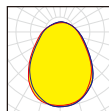
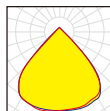
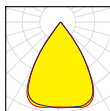
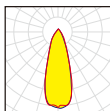
280\*15mm linear lens, optimized for SMD2835/3030 LED package

| Name         |     | Dimensions | Led Qty | Typ.FWHM | Led         | Typ.Eff. |
|--------------|-----|------------|---------|----------|-------------|----------|
| DAVY-24-30   | NEW | 280X15.6   | 24      | 30       | LUXEON 2835 | 90       |
| DAVY-24-90-B | NEW | 280X15.4   | 24      | 90       | LUXEON 2835 | 90       |

## AVOGADRO

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

| Name              |     | Dimensions | Led Qty | Typ.FWHM | Led         | Typ.Eff. |
|-------------------|-----|------------|---------|----------|-------------|----------|
| AVOGADRO-28-25    | NEW | 280X9.6    | 28      | 25       | LUXEON 2835 | 90       |
| AVOGADRO-28-15X50 | NEW | 280X9.6    | 28      | 15X50    | LUXEON 2835 | 90       |



# Commercial Lighting



## DALTON FAMILY

Dalton is a series of lenses with a deep concave surface structure to achieve the ultimate anti-glare effect, mainly optimized for high requirement of anti-glare scene: track lighting, ceiling lighting, spot lighting, outdoor flood lighting etc.

### DALTON-D35

Ø35mm with holder, optimized for 6mm luminous COB

| Name          |     | D   | H    | LES  | Typ.FWHM | Typ.Eff. |
|---------------|-----|-----|------|------|----------|----------|
| DALTON-D35-15 | NEW | D35 | 23.6 | ≤9mm | 15       | 90       |
| DALTON-D35-24 | NEW | D35 | 23.6 | ≤9mm | 24       | 90       |
| DALTON-D35-36 | NEW | D35 | 23.6 | ≤9mm | 36       | 90       |
| DALTON-D35-50 | NEW | D35 | 23.6 | ≤9mm | 50       | 90       |

### DALTON-D45

Ø45mm with holder, compatible for 9mm luminous COB

| Name          |     | D   | H    | LES  | Typ.FWHM | Typ.Eff. |
|---------------|-----|-----|------|------|----------|----------|
| DALTON-D45-15 | NEW | D45 | 29.3 | ≤9mm | 15       | 90       |
| DALTON-D45-24 | NEW | D45 | 29.3 | ≤9mm | 24       | 90       |
| DALTON-D45-36 | NEW | D45 | 29.3 | ≤9mm | 36       | 90       |
| DALTON-D45-50 | NEW | D45 | 29.3 | ≤9mm | 50       | 90       |

### DALTON-D50

Ø50mm with holder, optimized for 10mm luminous COB

| Name          |        | D   | H    | LES   | Typ.FWHM | Typ.Eff. |
|---------------|--------|-----|------|-------|----------|----------|
| DALTON-D50-15 | COMING | D50 | 31.5 | ≤10mm | 15       | 90       |
| DALTON-D50-24 | COMING | D50 | 31.5 | ≤10mm | 24       | 90       |
| DALTON-D50-36 | COMING | D50 | 31.5 | ≤10mm | 36       | 90       |
| DALTON-D50-50 | COMING | D50 | 31.5 | ≤10mm | 50       | 90       |

### DALTON-D62

Ø62mm with holder, compatible for 12mm luminous COB

| Name          |     | D   | H  | LES   | Typ.FWHM | Typ.Eff. |
|---------------|-----|-----|----|-------|----------|----------|
| DALTON-D62-15 | NEW | D62 | 40 | ≤12mm | 15       | 90       |
| DALTON-D62-24 | NEW | D62 | 40 | ≤12mm | 24       | 90       |
| DALTON-D62-36 | NEW | D62 | 40 | ≤12mm | 36       | 90       |
| DALTON-D62-50 | NEW | D62 | 40 | ≤12mm | 50       | 90       |

### DALTON-D70

Ø70mm with holder, optimized for 14.5mm luminous COB

| Name          |        | D   | H  | LES     | Typ.FWHM | Typ.Eff. |
|---------------|--------|-----|----|---------|----------|----------|
| DALTON-D70-15 | COMING | D70 | 44 | ≤14.5mm | 15       | 90       |
| DALTON-D70-24 | COMING | D70 | 44 | ≤14.5mm | 24       | 90       |
| DALTON-D70-36 | COMING | D70 | 44 | ≤14.5mm | 36       | 90       |
| DALTON-D70-50 | COMING | D70 | 44 | ≤14.5mm | 50       | 90       |

# Commercial Lighting

## LENZ

Ø50mm thinned COB lens for downlights and compact tracklights, up to 21 mm LES size COBs

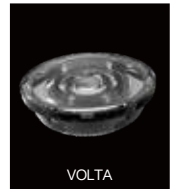
| Name           |        | D   | H    | LES    | Typ.FWHM | Typ.Eff. |
|----------------|--------|-----|------|--------|----------|----------|
| LENZ-D50-20    | COMING | D50 | 19.3 | ≤9.8mm | 20       | 92       |
| LENZ-D50-35    | COMING | D50 | 19.3 | ≤9.8mm | 35       | 92       |
| LENZ-D50-50    | COMING | D50 | 19.3 | ≤9.8mm | 50       | 92       |
| LENZ-D50-65    | COMING | D50 | 19.3 | ≤9.8mm | 60       | 92       |
| LENZ-D50-60x20 | COMING | D50 | 19.3 | ≤9.8mm | 60*20    | 92       |



## VOLTA

Multi-function thinner COB lens series, optimized for compact lighting (thinner track lighting & down lighting), Ø70mm optimized for 14.5mm luminous COB

| Name            |        | D   | H    | LES     | Typ.FWHM   | Typ.Eff. |
|-----------------|--------|-----|------|---------|------------|----------|
| VOLTA-D70-13    | COMING | D70 | 11.8 | ≤14.5mm | 13         | 90       |
| VOLTA-D70-18    | COMING | D70 | 12.8 | ≤14.5mm | 18         | 90       |
| VOLTA-D70-24    | COMING | D70 | 12.8 | ≤14.5mm | 24         | 90       |
| VOLTA-D70-36    | COMING | D70 | 12.8 | ≤14.5mm | 36         | 90       |
| VOLTA-D70-60    | COMING | D70 | 12.8 | ≤14.5mm | 60         | 90       |
| VOLTA-D70-25x60 | COMING | D70 | 12.8 | ≤14.5mm | 25*60      | 90       |
| VOLTA-D70-Asy   | COMING | D70 | 11.8 | ≤14.5mm | Asymmetric | 90       |



## YOUYOU-G2 FAMILY

Multi-fuction down lighting & wall washing lens series after optimizing the uniform light

### YOUYOU-D28-G2

Multi-fuction down lighting & wall washing lens series after optimizing the uniform light. Ø28mm with holder, optimized for 4/6 mm luminous

| Name             |     | D   | H     | LES  | Typ.FWHM | Typ.Eff. |
|------------------|-----|-----|-------|------|----------|----------|
| YOUYOU-D28-12_G2 | NEW | D28 | 16.05 | ≤4mm | 12       | 90       |
| YOUYOU-D28-24_G2 | NEW | D28 | 16.05 | ≤6mm | 24       | 90       |
| YOUYOU-D28-36_G2 | NEW | D28 | 16.05 | ≤6mm | 36       | 90       |
| YOUYOU-D28-50_G2 | NEW | D28 | 16.05 | ≤6mm | 50       | 80       |



### YOUYOU-D35-G2

Multi-fuction down lighting & wall washing lens series after optimizing the uniform light. Ø35mm with holder, optimized for 4/6 mm luminous COB, with base

| Name             |     | D   | H    | LES   | Typ.FWHM | Typ.Eff. |
|------------------|-----|-----|------|-------|----------|----------|
| YOUYOU-D35-15_G2 | NEW | D35 | 19.7 | ≤6mm  | 15       | 90       |
| YOUYOU-D35-24_G2 | NEW | D35 | 19.7 | ≤6mm  | 24       | 90       |
| YOUYOU-D35-36_G2 | NEW | D35 | 19.7 | ≤6mm  | 36       | 90       |
| YOUYOU-D35-50_G2 | NEW | D35 | 19.7 | ≤12mm | 50       | 80       |



### YOUYOU-D45-G2

Multi-fuction down lighting & wall washing lens series after optimizing the uniform light. Ø45mm with holder, optimized for 6/9mm luminous COB, with base

| Name             |     | D   | H    | LES  | Typ.FWHM | Typ.Eff. |
|------------------|-----|-----|------|------|----------|----------|
| YOUYOU-D45-12_G2 | NEW | D45 | 25.4 | ≤6mm | 12       | 90       |
| YOUYOU-D45-24_G2 | NEW | D45 | 25.4 | ≤9mm | 24       | 90       |
| YOUYOU-D45-36_G2 | NEW | D45 | 25.4 | ≤9mm | 36       | 90       |
| YOUYOU-D45-50_G2 | NEW | D45 | 25.4 | ≤9mm | 50       | 90       |



### YOUYOU-D62-G2

Multi-fuction down lighting & wall washing lens series after optimizing the uniform light. Ø62mm with holder, optimized for 9/11 mm luminous COB, with base

| Name             |     | D   | H  | LES   | Typ.FWHM | Typ.Eff. |
|------------------|-----|-----|----|-------|----------|----------|
| YOUYOU-D62-24_G2 | NEW | D62 | 30 | ≤12mm | 24       | 90       |
| YOUYOU-D62-36_G2 | NEW | D62 | 30 | ≤12mm | 36       | 90       |



# Commercial Lighting

## YOUYOU FAMILY

Cutoff light Down lighting & wall washing series

### YOUYOU-D28

Ø28mm with holder, optimized for 4/6 mm luminous COB, assembled with holder and base

| Name          | D   | H     | LES  | Typ.FWHM | Typ.Eff. |
|---------------|-----|-------|------|----------|----------|
| YOUYOU-D28-12 | D28 | 16.05 | ≤8mm | 12       | 92       |
| YOUYOU-D28-24 | D28 | 16.05 | ≤8mm | 24       | 88       |
| YOUYOU-D28-36 | D28 | 16.05 | ≤8mm | 36       | 88       |
| YOUYOU-D28-50 | D28 | 16.05 | ≤8mm | 50       | 88       |

### YOUYOU-D45

Ø45mm with base, optimized for 6/9 mm luminous COB

| Name          | D              | H     | LES    | Typ.FWHM | Typ.Eff. |
|---------------|----------------|-------|--------|----------|----------|
| YOUYOU-D45-24 | <b>NEW</b> D45 | 25.85 | ≤9.8mm | 24       | 90       |
| YOUYOU-D45-36 | <b>NEW</b> D45 | 25.83 | ≤9.8mm | 36       | 90       |
| YOUYOU-D45-50 | <b>NEW</b> D45 | 25.85 | ≤9.8mm | 50       | 90       |

### YOUYOU-D62

Ø62mm with holder, optimized for 9/11 mm luminous COB, with holder and base

| Name          | D   | H  | LES   | Typ.FWHM | Typ.Eff. |
|---------------|-----|----|-------|----------|----------|
| YOUYOU-D62-15 | D62 | 25 | ≤15mm | 15       | 88       |
| YOUYOU-D62-24 | D62 | 25 | ≤15mm | 24       | 88       |
| YOUYOU-D62-36 | D62 | 25 | ≤15mm | 36       | 88       |
| YOUYOU-D62-50 | D62 | 25 | ≤15mm | 50       | 88       |



## HUBBLE FAMILY

Cutoff light track lamp lighting series

### HUBBLE-D43

Ø43mm with white base, optimized for 6/9 mm luminous COB

| Name          | D              | H    | LES  | Typ.FWHM | Typ.Eff. |
|---------------|----------------|------|------|----------|----------|
| HUBBLE-D43-12 | <b>NEW</b> D43 | 20.6 | ≤9mm | 12       | 90       |
| HUBBLE-D43-24 | <b>NEW</b> D43 | 20.6 | ≤9mm | 24       | 90       |
| HUBBLE-D43-36 | <b>NEW</b> D43 | 20.6 | ≤9mm | 36       | 90       |
| HUBBLE-D43-50 | <b>NEW</b> D43 | 20.6 | ≤9mm | 50       | 90       |

### HUBBLE-D69

Ø69mm with white base, optimized for 9/11 mm luminous COB

| Name            | D     | H     | LES   | Typ.FWHM | Typ.Eff. |
|-----------------|-------|-------|-------|----------|----------|
| HUBBLE-D68.9-12 | D68.9 | 31.55 | ≤15mm | 12       | 92       |
| HUBBLE-D68.9-24 | D68.9 | 31.55 | ≤15mm | 24       | 92       |
| HUBBLE-D68.9-36 | D68.9 | 31.55 | ≤15mm | 36       | 92       |
| HUBBLE-D68.9-50 | D68.9 | 31.55 | ≤15mm | 50       | 92       |

### HUBBLE-D75

Ø75mm with white base, optimized for 9/11 mm luminous COB

| Name          | D              | H     | LES   | Typ.FWHM | Typ.Eff. |
|---------------|----------------|-------|-------|----------|----------|
| HUBBLE-D75-10 | <b>NEW</b> D75 | 34.32 | ≤11mm | 10       | 90       |
| HUBBLE-D75-24 | <b>NEW</b> D75 | 34.32 | ≤11mm | 24       | 90       |
| HUBBLE-D75-36 | <b>NEW</b> D75 | 34.32 | ≤11mm | 36       | 90       |



# Commercial Lighting



## EULER FAMILY

Regular thinned COB lens series

### EULER-D35

Ø35mm with white base, optimized for 4/6 mm luminous COB

| Name         | D   | H   | LES   | Typ.FWHM | Typ.Eff. |
|--------------|-----|-----|-------|----------|----------|
| EULER-D35-20 | D35 | 9.5 | ≤11mm | 20       | 92       |
| EULER-D35-25 | D35 | 9.5 | ≤11mm | 25       | 92       |
| EULER-D35-40 | D35 | 9.5 | ≤11mm | 40       | 92       |
| EULER-D35-55 | D35 | 9.5 | ≤11mm | 55       | 92       |

### EULER-D44

Ø44mm with white base, optimized for 6/9 mm luminous COB

| Name         | D   | H    | LES   | Typ.FWHM | Typ.Eff. |
|--------------|-----|------|-------|----------|----------|
| EULER-D44-14 | D44 | 11.3 | ≤12mm | 14       | 92       |
| EULER-D44-22 | D44 | 11.3 | ≤12mm | 22       | 92       |
| EULER-D44-35 | D44 | 11.3 | ≤12mm | 35       | 92       |
| EULER-D44-55 | D44 | 11.3 | ≤12mm | 55       | 92       |

### EULER-D50

Ø50mm with white base, optimized for 6/9 mm luminous COB

| Name         | D   | H    | LES   | Typ.FWHM | Typ.Eff. |
|--------------|-----|------|-------|----------|----------|
| EULER-D50-13 | D50 | 13.8 | ≤12mm | 13       | 92       |
| EULER-D50-23 | D50 | 13.8 | ≤12mm | 23       | 92       |
| EULER-D50-30 | D50 | 13.8 | ≤12mm | 30       | 92       |
| EULER-D50-40 | D50 | 13.8 | ≤12mm | 40       | 92       |

### EULER-D62

Ø62mm with white base, optimized for 9/11 mm luminous COB

| Name         | D   | H     | LES    | Typ.FWHM | Typ.Eff. |
|--------------|-----|-------|--------|----------|----------|
| EULER-D62-15 | D62 | 18.5  | ≤9.6mm | 15       | 90       |
| EULER-D62-24 | D62 | 18.5  | ≤9.6mm | 24       | 90       |
| EULER-D62-36 | D62 | 18.5  | ≤9.6mm | 36       | 90       |
| EULER-D62-50 | D62 | 18.45 | ≤9.6mm | 50       | 90       |

### EULER-D70

Ø70mm with white base, optimized for 9/11 mm luminous COB

| Name         | D   | H    | LES    | Typ.FWHM | Typ.Eff. |
|--------------|-----|------|--------|----------|----------|
| EULER-D70-15 | D70 | 19.8 | ≤9.6mm | 15       | 90       |
| EULER-D70-24 | D70 | 19.8 | ≤9.6mm | 24       | 90       |
| EULER-D70-36 | D70 | 19.8 | ≤9.6mm | 36       | 90       |

# Commercial Lighting

## EULER-D75

Ø75mm single lens with white base, optimized for 9 or 11 mm luminous COB

| Name         |     | D   | H    | LES    | Typ.FWHM | Typ.Eff. |
|--------------|-----|-----|------|--------|----------|----------|
| EULER-D75-15 | NEW | D75 | 22.8 | ≤9.6mm | 15       | 90       |
| EULER-D75-36 | NEW | D75 | 22.8 | ≤9.6mm | 36       | 90       |

## EULER-D83

Ø83mm single lens with white base, optimized for 11 mm luminous COB

| Name         |     | D   | H  | LES     | Typ.FWHM | Typ.Eff. |
|--------------|-----|-----|----|---------|----------|----------|
| EULER-D83-15 | NEW | D83 | 23 | ≤15.1mm | 15       | 90       |
| EULER-D83-24 | NEW | D83 | 23 | ≤15.1mm | 24       | 90       |
| EULER-D83-36 | NEW | D83 | 23 | ≤15.1mm | 36       | 90       |

## EULER-D90

Ø90mm single lens with white base, optimized for 11 mm luminous COB

| Name         |     | D   | H    | LES   | Typ.FWHM | Typ.Eff. |
|--------------|-----|-----|------|-------|----------|----------|
| EULER-D90-10 | NEW | D90 | 28.5 | ≤15mm | 10       | 90       |
| EULER-D90-24 | NEW | D90 | 28.5 | ≤15mm | 24       | 90       |
| EULER-D90-36 | NEW | D90 | 28.5 | ≤15mm | 36       | 90       |

## EULER-D133

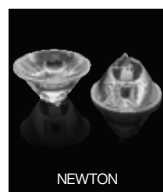
Ø133 mm lenses with 2° beam for spot- and searchlights, optimized for Cree xpe LED package.

| Name         |  | D    | H    | Led       |  | Typ.Eff. |
|--------------|--|------|------|-----------|--|----------|
| EULER-D133-2 |  | D133 | 2103 | CREE XP-E |  | 70       |

## NEWTON

Transitional down lighting / wall washing lens, Ø50mm, optimized for 6/9 mm luminous COB, with optional base, both PMMA/PC available

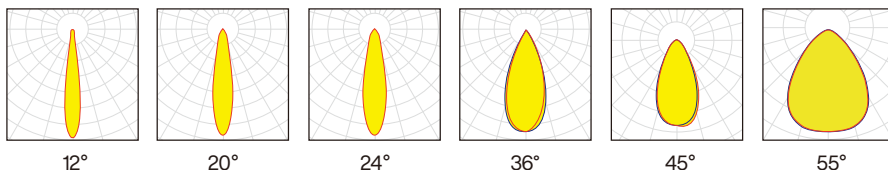
| Name          | D   | H  | LES    | Typ.FWHM | Typ.Eff. |
|---------------|-----|----|--------|----------|----------|
| NEWTON-D50-17 | D50 | 27 | ≤9.8mm | 17       | 93       |
| NEWTON-D50-20 | D50 | 27 | ≤9.8mm | 20       | 93       |
| NEWTON-D50-35 | D50 | 27 | ≤9.8mm | 35       | 93       |



## ARCHIMEDES

PC Reflector

| Name              |     | D   | H    | LES   | Typ.FWHM | Typ.Eff. |
|-------------------|-----|-----|------|-------|----------|----------|
| Archimedes-D45-15 | NEW | D45 | 38   | ≤11mm | 15       | 92       |
| Archimedes-D45-24 | NEW | D45 | 38   | ≤11mm | 24       | 92       |
| Archimedes-D45-36 | NEW | D45 | 38   | ≤11mm | 36       | 92       |
| Archimedes-D50-15 | NEW | D50 | 43.3 | ≤11mm | 15       | 92       |
| Archimedes-D50-24 | NEW | D50 | 43.3 | ≤11mm | 24       | 92       |
| Archimedes-D50-36 | NEW | D50 | 43.3 | ≤11mm | 36       | 92       |



# LED Backlight & TV Lens



## KEPLER FAMILY

Optimized for back light lens series

### KEPLER

| Name                 |     | D      | H    | OD | LED spacing | Led                | Typ.FWHM | Typ.Eff. |
|----------------------|-----|--------|------|----|-------------|--------------------|----------|----------|
| KEPLER-D11.55-160_NW | NEW | D11.55 | 4.43 | 30 | Px80, Py90  | LUXEON 3030 SQUARE | 160      | 90       |
| KEPLER-D11.5-160     | NEW | D11.55 | 4.38 | 30 | Px80, Py90  | LUXEON 3030 SQUARE | 160      | 90       |
| KEPLER-D13.5-160     | NEW | D13.5  | 5.12 | 30 | Px80, Py90  | LUXEON 3030 SQUARE | 160      | 90       |
| KEPLER-D11.55-160    |     | D11.55 | 4.43 | 30 | Px80, Py90  | SAMSUNG 2835       | 160      | 93       |
| KEPLER-D13.51-160    |     | D13.51 | 5.18 | 30 | Px80, Py90  | SAMSUNG 2835       | 160      | 93       |

### KEPLER-T

TV Backlight (Refraction type)

| Name                 |     | D      | H    | OD | LED spacing  | Led                | Typ.FWHM | Typ.Eff. |
|----------------------|-----|--------|------|----|--------------|--------------------|----------|----------|
| KEPLER-T-D15.85-170  | NEW | D15.85 | 5.87 | 35 | Px105, Py155 | LUXEON 3030 SQUARE | 170      | 90       |
| KEPLER-T-D15.9-170-A | NEW | D15.9  | 5.82 | 35 | Px105, Py155 | LUXEON 3030 SQUARE | 170      | 90       |
| KEPLER-T-D16-170     | NEW | D16    | 5.74 | 35 | Px94, Py155  | LUXEON 3030 SQUARE | 170      | 90       |

### KEPLER-F

TV Backlight (Reflection type)

| Name               |     | D     | H    | OD | LED spacing  | Led                | Typ.FWHM | Typ.Eff. |
|--------------------|-----|-------|------|----|--------------|--------------------|----------|----------|
| KEPLER-F-D17-175   | NEW | D17   | 8.11 | 18 | Px145, Py145 | LUXEON 3030 SQUARE | 175      | 90       |
| KEPLER-F-D17.5-175 | NEW | D17.5 | 7.95 | 22 | Px145, Py145 | LUXEON 3030 SQUARE | 175      | 90       |

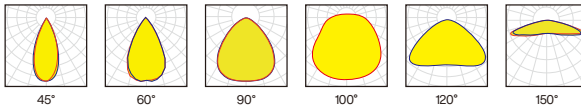
# Glass Light Lens

## LIPPMANN FAMILY

### LIPPMANN-D78

Single glass lenses, Ø78 mm round lens

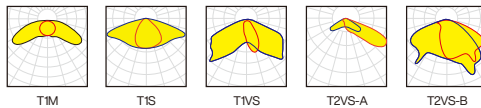
| Name             | Dimensions | Height | Typ.FWHM | Led            | Typ.Eff. |
|------------------|------------|--------|----------|----------------|----------|
| LIPPMANN-D78-45  | NEW 78     | 43.7   | 45       | SAMSUNG LC080D | 91       |
| LIPPMANN-D78-60  | NEW 78     | 40     | 60       | SAMSUNG LC080D | 91       |
| LIPPMANN-D78-90  | NEW 78     | 35     | 90       | SAMSUNG LC080D | 91       |
| LIPPMANN-D78-100 | NEW 78     | 26.4   | 100      | SAMSUNG LC080D | 91       |
| LIPPMANN-D78-120 | NEW 78     | 26.4   | 120      | SAMSUNG LC080D | 91       |
| LIPPMANN-D78-150 | NEW 78     | 20     | 150      | SAMSUNG LC080D | 91       |



### LIPPMANN-D92

Single glass lenses, Ø92 mm round lens

| Name              | Dimensions | Height | Typ.FWHM   | Led            | Typ.Eff. |
|-------------------|------------|--------|------------|----------------|----------|
| LIPPMANN-D92-T1VS | NEW 92     | 312    | Asymmetric | SAMSUNG LC080D | 91       |
| LIPPMANN-D92-T1S  | NEW 92     | 312    | Asymmetric | SAMSUNG LC080D | 91       |
| LIPPMANN-D92-T2VS | NEW 92     | 34     | Asymmetric | SAMSUNG LC080D | 91       |
| LIPPMANN-D92-T1M  | NEW 92     | 312    | Asymmetric | SAMSUNG LC080D | 91       |



## ZEEMAN FAMILY

### ZEEMAN-10

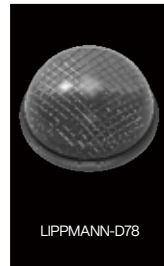
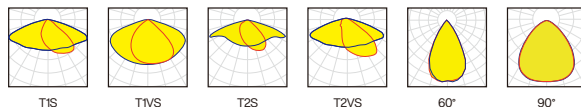
143 x 82mm 10 arrays optimized for SMD 7070 size LED packages.

| Name           | Dimensions | Led Qty | Typ.FWHM   | Led            | Typ.Eff. |
|----------------|------------|---------|------------|----------------|----------|
| ZEEMAN-10-T1S  | NEW 143x82 | 10      | Asymmetric | SMD7070 SQUARE | 95       |
| ZEEMAN-10-T2S  | NEW 143x82 | 10      | Asymmetric | SMD7070 SQUARE | 95       |
| ZEEMAN-10-T2VS | NEW 143x82 | 10      | Asymmetric | SMD7070 SQUARE | 95       |
| ZEEMAN-10-T1VS | NEW 143x82 | 10      | Asymmetric | SMD7070 SQUARE | 95       |

### ZEEMAN-12

143 x 82mm 12 arrays optimized for SMD 7070 size LED packages.

| Name         | Dimensions | Height | Typ.FWHM | Led         | Typ.Eff. |
|--------------|------------|--------|----------|-------------|----------|
| ZEEMAN-12-60 | NEW 143x82 | 15.4   | 60       | SMALTE 7070 | 95       |
| ZEEMAN-12-90 | NEW 143x82 | 12.5   | 90       | SMALTE 7070 | 95       |



# Why Sunlumin

## Pre-sale Technical Support & After-sales Service



On field technical support

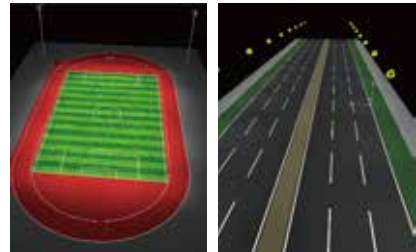


24 hours technical and after-sales service assistance from China HQ customer service department

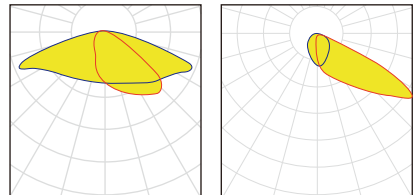
## R&D ability

- 1 Rich experience in optical design of street lights for Brazil(INMETRO), India (NHA), Russia , Australia , Europe ,Turkey
- 2 RGBW ultra-uniform combining optical design
- 3 Expertise in professional sport light projects
- 4 Ultra-small angle optical design high accuracy
- 5 Base on housing or heat sink, we can provide lens mechanical design and offer lens 3D files
- 6 We offer service for verifying lighting solutions particular to DIALUX / AGI32

## Road light distribution simulation



## Light distribution curve



## Quality Assurance

- 1 Lens protection grade test
- 2 Accuracy photoelectric parameters test
- 3 Lens reliability testing
- 4 SGS ISO9001:2008;Quality assurance service up to 5-10 years

## Delivery Assurance

- 1 Available local production in main market
- 2 Swift and precise delivery control
- 3 Accessible local stock in main market



LightTools





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



[www.sunlumin-optics.com](http://www.sunlumin-optics.com)