

# LedLink

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■ Linking LEDs to the real world ■

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# About Ledlink



**Ledlink Optics, Inc.** was founded in April 2008, specializing in optical, structure and precise manufacturing from a professional background. We've successfully developed all kinds of optical lenses with variety of angles, beam patterns and blend lights.

Our mission is to assist customers achieve the full and complete use of LED light source applications, and reaching the highest performance as well as changing the beam patterns and angles in order to adapt to different requirements of applications.

Ledlink Optics, Inc. provides the total solutions of secondary optics to enhance the lighting value of LED, and leading our customers on the cutting edge of lighting industry.

2009.05  
ISO 9001, ISO14001  
Certification approved

2009.12  
Dong-Guan secondary  
factory established

2011.03  
Third factory expansion  
in Dong-Guan  
Yang-Zhou Ledlink  
construction

2011.05  
Listed in Emerging Market

2011.09  
TS16949 Certification approved



2011.12  
Awarded the 16th place of Deloitte  
Technology Fast500 Asia Pacific 2011

**Deloitte.**  
Technology Fast500

2008-2009

2010-2011

2012-2013



2008.03  
Ledlink established in Taipei



2008.08  
Dong-Guan factory  
established



2010.01  
UL Certification approved



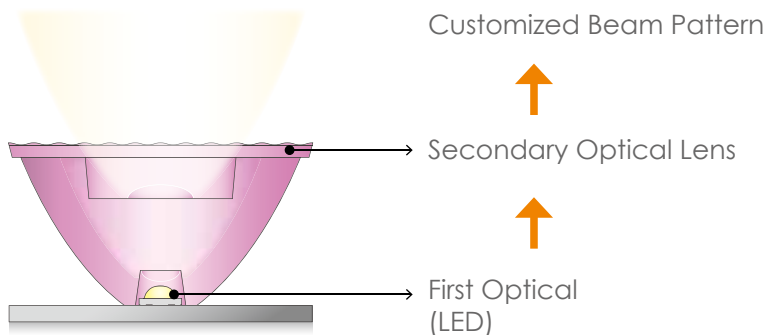
2010.09  
Sign Yang-Zhou Ledlink  
investment agreement

2012.06  
IPO in OTC



2013.08  
Yangzhou factory mass  
production

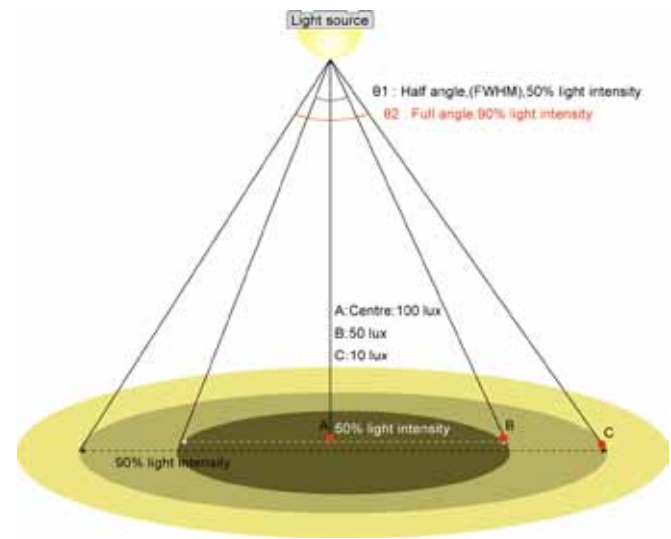
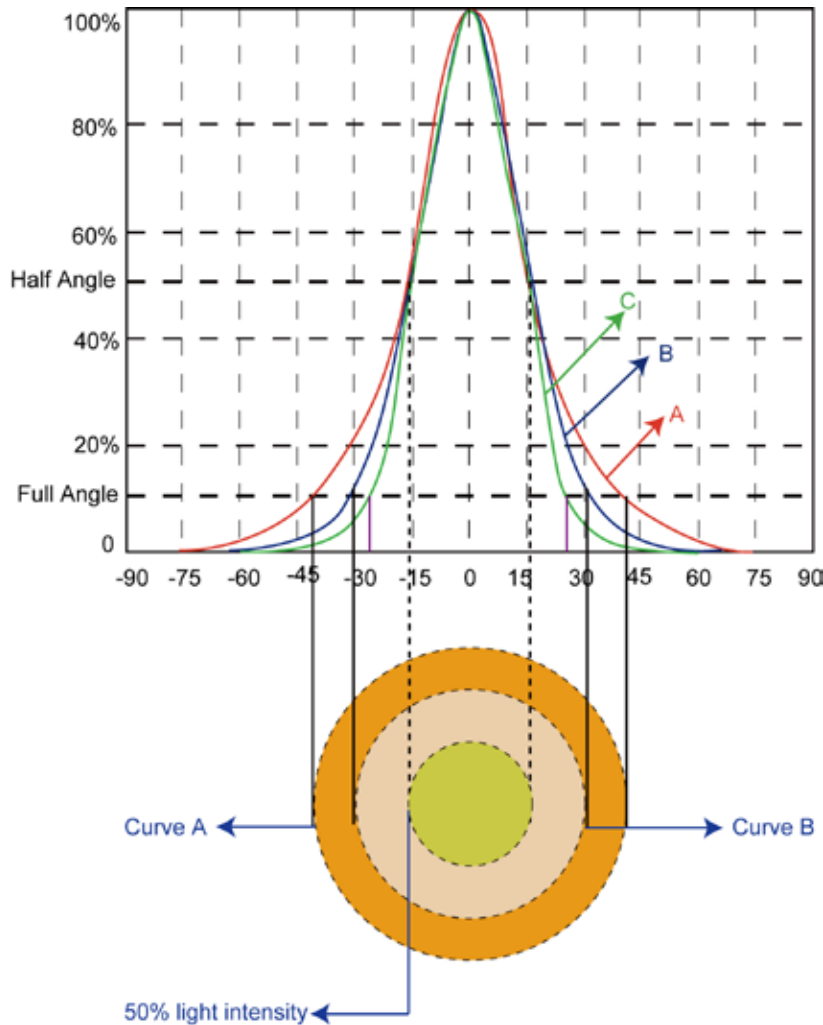
# Secondary Optical Lens



Generally speaking, LED need to proceed secondary optics design prior to become lamp fixture, LED package is first optics design and secondary optics design is that we change the optical character from the light of first optics through secondary optical change.

| Name               | Symbol | Unit                    | Description  |
|--------------------|--------|-------------------------|--|
| Luminous Flux      | $\Phi$ | Lm(Lumen)               | Light source shot in total amount per second   |
| Illuminance        | E      | lm/m <sup>2</sup> (Lux) | <p>Illuminance means in one lighted area, the density of the luminous flux on a surface, per unit area.(Illuminance is inverse ratio to the square of distance from one illuminant. And it expresses the brightness of one place.)</p> $\text{Illuminance}(E) = \frac{\text{Luminous Flux}(\Phi)}{\text{Area}(A)}$ |
| Luminous Intensity | I      | Cd(Candela)             | <p>The Luminous Flux in certain direction of light source of solid angle(<math>\Omega</math>)</p> $\text{Luminous Intensity}(I) = \frac{\text{Luminous Flux}(\Phi)}{\text{Solid angle}(\Omega)}$   |
| Luminance          | L      | cd/m <sup>2</sup>       | <p>Luminance means the luminous intensity(I) per unit of one illuminated area which light radiates or passes through in a given direction.</p> $\text{Luminance}(L) = \frac{\text{Luminous Intensity}(I)}{\text{Area}(A)}$   |

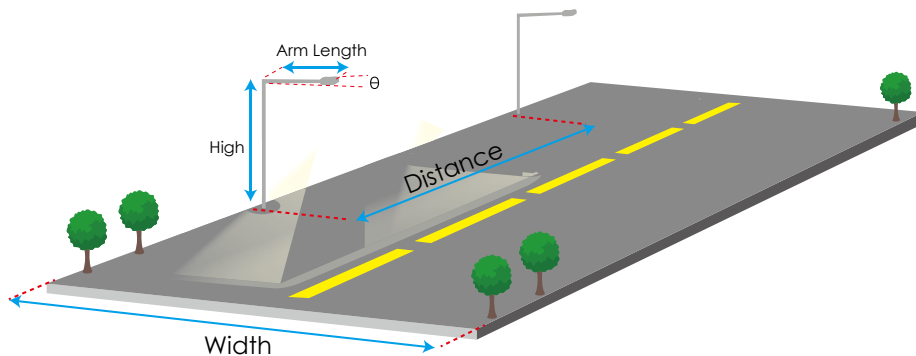
# Definition of Beam Angle



Half angle: 50% light intensity (FWHM)  
 Full angle: 10% light intensity  
 For Curve A, B, and C → half angle 30°  
 Full angle : Curve A = 80°  
                   Curve B = 60°  
                   Curve C = 50°

Full angle definition is more accurate as it allows the luminaries designer to arrange/ develop their LED lamp.

# Street Lighting



## LED requirements:

- LED brand/ type
- MCPCB layout (arrangement)
- MCPCB 2D drawing; LED position is critical

## Mechanical requirements:

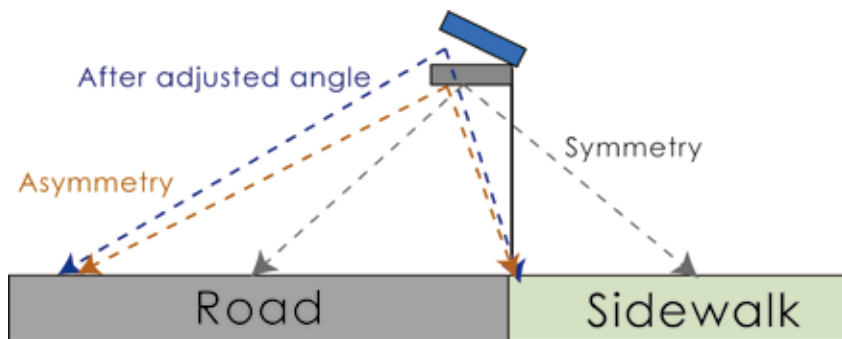
- Dimension limitations:
- Mounting method: Screw/ Thermal mount/ Glue
- Waterproof: Rubber ring height/ Silicon

## Installation conditions:

- Pole Arrangement
- Pole Height (H)
- Pole Distance (D)
- Pole tilt angle ( $\theta$ )
- Pole arm length (L)
- Road Width: (W)
- Optical requirements

## Optical requirements

- Uniformity
- Min lux
- Avg lux
- Cd / m<sup>2</sup>(U<sub>o</sub> / U<sub>I</sub> / T<sub>I</sub>)
- Type 1~Type 5



The asymmetry street lighting lens designed by Ledlink Optics Inc. is aiming to focus light and make the asymmetric beam pattern. Because of the lens, light can be focused and used upon customer's demand. The optics lens reduce spill light from arcade and redirect light to the street resulting in increased several times of luminance intensity and illumination brightness. Thus, a secondary optical lens is a way to save energy cost and LED requested amount, as well as it can maximize LED performance.

# Product Nomenclature

**L L 01 CR - AO x x L - M x**

X1      X2      X3      X4      X5      X6      X7  
Lens Item   Lens Q'ty   Led Type   Serial Number   Lens Angle   Type   Housing

**X1: Lens Item → Ledlink**

**X2: Lens Q'ty → 01, 03, 04, 06, 07, 09, 12, 15, 18, 24, 36, 60**

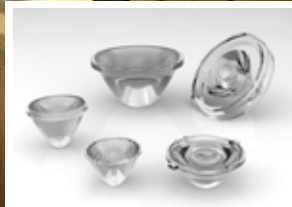
**X3: Led Type :** CR → Cree  
ED → Edison  
LU → Lumileds  
NI → Nichia  
OS → Osram

**X4: Serial Number → AA, AB, AC, .....Ex,.....**

**X5: Lens Angle → 08°, 10°, 15°, 25°,.....,40°,.....,80°,.....,140°,25°x45°,30°x65°...**

**X6: Type : L → Lens(Material:L02-PC, L06-PMMA)  
R→Reflector(Material:R35-Plastic Plating, R49-Aluminum)**

**X7: Housing :** M1 → Black  
M2 → White  
M3 → Clear



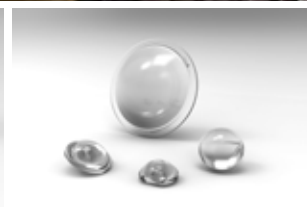
▶ Single/COB Lens



▶ Reflector



▶ Multi Lens














▶ Convex Lens

LENS Series







**Single Lens**



10 mm  
|  
20 mm

| DXH (mm)     | Part Number                            | Degree  | LED   | Picture   |
|--------------|--|---|---|---|
| 10 x 6       | LL01OS-HGxxL06                         | Full angle: 40° 60°                               | Osram Oslon SSL 80  |    |
| 13.5 x 7.35  | LL01CR-DFxxL06-M2<br>(Tape available)  | Full angle:<br>25° 40° 60° 80° 100°<br>30°x65°    | Cree XP-E2, XP-G2<br>Nichia NCS19, NVS19, NVS19B                                    |    |
| 13.5 x 7.35  | LL01LU-DFxxL06-M2<br>(Tape available)  | Full angle:<br>80° 100°<br>30°x65°                | Lumileds Rebel, Rebel ES  |    |
| 13.5 x 7.35  | LL01CR-BDFxxL06-M2<br>(Tape available) | Full angle: 40° 60°                               | Cree XB-D   |    |
| 13.5 x 7.35  | LL01CR-AAFxxL02-M2<br>(Tape available) | FWHM: 25° 45° 60°                                 | Cree XP-E2, XP-G2<br>Nichia NCS19, NVS19, NVS19B<br>LGIT Ceramic 3535               |    |
| 13.5 x 7.35  | LL01HS-AAFxxL02-M2<br>(Tape available) | FWHM: 25° 45°<br>FWHM: 25° 45° 60°                | Cree XP-E2, XP-G2<br>Nichia NCS19, NVS19, NVS19B<br>LGIT Ceramic 3535               |    |
| 13.5 x 7.35  | LL01OS-AAFxxL02-M2<br>(Tape available) | FWHM: 25° 45° 60°                                 | Nichia 757A   |    |
| 13.5 x 7.35  | LL01OS-BDFxxL06-M2<br>(Tape available) | Full angle:<br>40° 60° 80° 100°                   | Cree XP-E2, XP-G2<br>Nichia NCS19, NVS19, NVS19B<br>LGIT Ceramic 3535               |    |
| 16 x 10.3    | LL01CR-HQxxL06-M2                      | Full angle:<br>15° 25° 30° 40° 60° 80°<br>25°x45° | Cree XP-E, XP-G   |   |
| 16.6 x 10.45 | LL01CR-OTxxL06-M2                      | Full angle:<br>40° 60° 80°                        | Cree XP-E2, XP-G2, XT-E<br>Edison Federal 3535(1BE7)<br>Osram Oslon SSL 80 / Square |  |
| 19.65 x 12.1 | LL01OS-DSxxL06                         | Full angle:<br>15° 30°                            | Osram W5AM  |  |



| DXH (mm)      | Part Number                           | Degree                       | LED  | Picture   |
|---------------|---------------------------------------|------------------------------|--|---|
| 19.7 x 11.9   | LL01ED-BJ38L06                        | Full angle: 38°              | Edison 1LA5  |    |
| 19.9 x 10.55  | LL01ED-FM38L06                        | Full angle: 38°              | Cree XP-E2, XP-G2, XB-D, MX-3/6<br>Edison 1LA5, Federal 3045/3535(1BE1)<br>Lgit Ceramic 3535 V2<br>Lumileds Rebel, Luxeon T<br>Nichia NVS19B<br>Osram Oslon SSL 80/150, Oslon Square<br>Seoul A4, P4 |    |
| 20 x 11.5     | LL01OS-LA20L02                        | Full angle: 20°              | Cree XP-E  |    |
| 20 x 18.5     | LL01CR-ADI10L06                       | FWHM: 10°                    | Cree XP-E  |    |
| 20.8 x 12.35  | LL01OS-BFVxxL06                       | FWHM: 15° 25° 30° 15°x40°    | Cree XP-E, XP-E2, XP-G, XP-G2, XT-E, XB-D<br>Osram Oslon SSL 80  |    |
| 21 x 12.6     | LL01CR-AA2065L06-M2                   | Full angle: 20° x 65°        | Cree XP-E  |    |
| 21 x 13.9     | LL01CR-SQxxL06-M2<br>(Tape available) | Full angle: 40° 60° 80°      | Cree XM-L<br>Edison Federal 5050   |    |
| 21 x 13.9     | LL01CR-YJxxL02-M2<br>(Tape available) | Full angle: 40° 60° 80° 100° | Cree XM-L<br>Edison Federal 5050   |   |
| 21.05 x 14.75 | LL01OS-MQxxL06-M2                     | Full angle: 15° 25° 40° 60°  | Osram Oslon SSL 80 / Square  |  |
| 21.2 x 15.1   | LL01ED-CVxxL06-M2                     | Full angle: 15° 25° 45°      | Edison 1LA5  |  |














20 mm  
|  
21 mm



21 mm  
|  
22 mm

| DXH (mm)     | Part Number                            | Degree                                      | LED                         | Picture   |
|--------------|--|---|-----------------------------|---|
| 21.3 x 12.4  | LL01LU-AFCxxL06-M2<br>(Tape available) | FWHM:<br>10° 15° 25° 30°<br>10°x35° 15°x30° | Lumileds Rebel, Rebel ES    |    |
| 21.3 x 12.4  | LL01OS-AFCxxL06-M2<br>(Tape available) | FWHM:<br>10° 15° 25° 30°<br>10°x35° 15°x30° | Osram Oslon SSL 80 / Square |    |
| 21.3 x 12.4  | LL01CR-AFCxxL06-M2<br>(Tape available) | FWHM:<br>10° 15° 25° 30°<br>10°x35° 15°x30° | Cree XP-E2, XP-G2           |    |
| 21.3 x 14    | LL01ED-AHxxL06-M2                      | Full angle: 30° 45° 60°                     | Edison 1LA5                 |    |
| 21.3 x 14    | LL01ED-ALxxL06-M2                      | Full angle: 15°                             | Edison 1LA5                 |    |
|              |  | Full angle: 30°x65°                         | Edison 1LA5<br>Seoul P4     |   |
| 21.3 x 14    | LL01ED-BLxxL06-M2                      | Full angle: 25°                             | Edison 1LA5                 |    |
| 21.3 x 14    | LL01ED-BPxxL06-M2                      | Full angle: 45°                             | Edison 1LA5                 |    |
| 21.3 x 14    | LL01ED-BSxxL06-M2                      | Full angle: 10° 38° 60°                     | Edison 1LA5                 |    |
| 21.3 x 14    | LL01ED-BVxxL06-M2                      | Full angle: 60°                             | Edison 1LA5                 |  |
| 21.3 x 14    | LL01ED-ZBxxL06-M1                      | Full angle: 15°                             | Edison 1LA5                 |  |
| 21.5 x 13.35 | LL01OS-AXxxL02-M2                      | Full angle: 20° 40° 60°                     | Osram W5AM                  |  |









| DXH (mm)     | Part Number                           | Degree  | LED                                      | Picture   |
|--------------|---------------------------------------|---|--|---|
| 21.5 x 13.95 | LL01CR-BRxxL06-M2                     | Full angle: 30° 40° 50°<br>10°x45° 15°x50° 15°x80°<br>40°x90° | Cree XRE                                 |    |
| 21.5 x 15.0  | LL01ED-CVxxL02-M2                     | Full angle: 15° 25° 45°                                       | Edison 1LA5 RGB                          |    |
| 21.9 x 12.3  | LL01ED-ASxxL06-M2                     | Full angle: 15° 38° 60°                                       | Edison 1LA5                              |    |
| 21.9 x 12.3  | LL01ED-AS38R06-M2                     | Full angle: 38°   | Edison 1LA5                              |    |
| 22.2 x 10.6  | LL01ZZ-AHZxxL02                       | FWHM: 24° 38°   | Cree XM-L, XM-L EZW<br>Lumileds Luxeon T |    |
| 22.4 x 9.63  | LL01LU-LH15L06-M2                     | Full angle: 15°   | Luxeon Rebel                             |    |
| 22.4 x 9.7   | LL01ZZ-EXxxL06-M2<br>(Tape available) | Full angle:<br>10° 25° 40° 60° 110°<br>30° x 65°              | Cree XP-E2, XP-G2                        |    |
| 22.4 x 9.7   | LL01LU-EXxxL06-M2<br>(Tape available) | Full angle:<br>10° 25° 40° 60° 110°<br>30° x 65°              | Lumileds Rebel, Rebel ES                 |    |
| 22.4 x 9.7   | LL01OS-EXxxL06-M2<br>(Tape available) | Full angle:<br>10° 25° 40° 60° 110°<br>30° x 65°              | Osram Oslon SSL 80 / Square              |  |
| 22.4 x 9.7   | LL01CR-BEXxxL06-M<br>(Tape available) | Full angle: 25° 40° 60°                                       | Cree XB-D<br>Osram Oslon Square          |  |
| 22.5 x 10.55 | LL01ED-AQxxL06                        | Full angle: 15° 40° 60°                                       | Edison Edixeon                           |  |






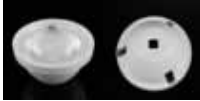





21 mm  
|  
23 mm



23 mm  
|  
25 mm

| DXH (mm)    | Part Number                            | Degree  | LED  | Picture   |
|-------------|--|---|--|---|
| 23.5 x 14.9 | LL01NI-GRxxL06-M2                      | Full angle: 25° 40° 60° 80°                           | Nichia 183A  |    |
| 23.5 x 15.8 | LL01NI-ANExxL02-M2<br>(Tape available) | FWHM: 10° 20° 30° 55°                                 | Nichia NCS19, NVS19, NVS19B                                    |    |
| 23.5 x 15.8 | LL01CR-BNExxL06-M2                     | Full angle: 25° 40° 60°<br>35°x70°                    | Cree XB-D  |    |
| 23.5 x 15.8 | LL01CR-CNExxL06-M2<br>(Tape available) | Full angle:<br>17° 25° 40° 60° 80°<br>10°x45° 25°x45° | Cree XP-E2, XP-G2, XT-E<br>Edison Federal 3535(1BE7)           |    |
| 23.5 x 15.9 | LL01CR-AOxxL06-M2                      | Full angle: 60°                                       | Cree XRE   |    |
| 23.5 x 17.5 | LL01ED-AOxxL06-M2                      | Full angle:<br>30° 40° 60° 80°<br>25°x45°             | Edison 1LA5  |    |
| 24.3 x 11.5 | LL01ZZ-FLxxL06-M2<br>(Tape available)  | Full angle:<br>10° 25° 40° 60°<br>30°x65°             | Cree XP-E2, XP-G2, XM-L2<br>Nichia NVS19B<br>LGIT Ceramic 3535 |    |
| 24.3 x 11.5 | LL01LU-FLxxL06-M2<br>(Tape available)  | Full angle:<br>10° 25° 40° 60°<br>30°x65°             | Lumileds Rebel, Rebel ES                                       |    |
| 24.3 x 11.5 | LL01CR-AFLxxL02-M2<br>(Tape available) | Full angle: 35° 50° 70°                               | Cree MK-R, MT-G<br>Lumileds Luxeon M                           |  |
| 24.3 x 12.3 | LL01LU-AFLxxL02-M2                     | FWHM: 35° 50° 70°                                     | Cree MK-R<br>Lumileds Luxeon M                                 |  |
| 24.3 x 12.3 | LL01CR-FLxxL06-M2                      | Full angle: 25° 40°                                   | Cree MCE   |  |













| DXH (mm)     | Part Number         | Degree                               | LED  | Picture   |
|--------------|---------------------|--------------------------------------|--|---|
| 25 x 13      | LL01NI-DZ2040L06-M2 | Full angle: 20°x40°                  | Cree MX6<br>Nichia 183   |    |
| 25 x 13.5    | LL01ED-ANxxL06-M2   | Full angle: 25° 15°x50°              | Edison 1LA5  |    |
| 25.6 x 10    | LL01OS-CB15L06      | Full angle: 15°                      | Cree XP-E, XP-E2, XP-G, XP-G2, XT-E, XM-L, XM-L2, XM-L EZW<br>Edison 1LA5, ET-3535, Federal 5050(White)<br>Lumileds Luxeon A, Luxeon R, Luxeon T<br>Nichia NVS19A, NVS19B, 183A(3chip)<br>Osram Oslon SSL 80/150, Oslon Square<br>Lgit Ceramic 3535 V2<br>Seoul A4, P4 |    |
| 26 x 15.5    | LL01ED-AFDxxL06     | Full angle: 15°                      | Cree MC-E Color, XM-L Color<br>Edison Federal 5050 Color<br>Osram Ostar SMD color  |    |
|              |                     | Full angle: 20°                      | Cree MC-E Color, XM-L Color, XM-L2<br>Edison Federal 5050 Color<br>Lumileds Luxeon M / T<br>Nichia NVS19B<br>Osram Oslon Square, Ostar SMD color<br>Seoul P4   |   |
| 27.8 x 10.2  | LL01CR-ACZxxL02     | FWHM: 24° 38°                        | Cree XP-E, XML, XM-L2, XM-L EZW<br>Edison ET-3535, Federal 5050(White)<br>Osram Oslon Square<br>Sharp Petite Zenigata  |    |
| 28.8 x 15.95 | LL01CR-AVC30L       | FWHM: 30°                            | Cree XP-E  |    |
| 29.1 x 19.8  | LL01ED-DI10L06      | Full angle: 10°                      | Edison 1LA5  |   |
| 31 x 11.2    | LL01ED-CTxxL06      | Full angle: 38° 80°                  | Cree XPE, XHG, MX3, MX6<br>Edison 1LA5<br>Lumileds Rebel<br>Seoul P4   |  |
| 31 x 19.3    | LL01ED-AJxxL06-M2   | FWHM: 10°<br>Full angle: 25° 40° 60° | Edison 1LA5  |  |



25 mm  
|  
31 mm



| DXH (mm)    | Part Number                           | Degree                             | LED  | Picture   |
|-------------|---------------------------------------|------------------------------------|--|---|
| 32.8 x 18   | LL01CR-DGxxL06-M2                     | Full angle:<br>20° 30° 40° 50° 60° | Cree XPE, XP-E2, XP-G, XP-G2, XBD, XQD,<br>XM-L, XM-L2, MC-E, MK-R, CXA 1304<br>Citizen CL-L010<br>Edison Federal 5050(White)<br>Lgit Ceramic 3535 V2<br>Lumileds Luxeon T<br>Nichia NVS19A, NVS19B<br>Osram Oslon Square<br>Sharp Petite Zenigata |    |
| 32.8 x 18   | LL01LU-DGxxL06-M2                     | Full angle:<br>20° 30° 40° 50° 60° | Cree MK-R<br>Lumileds Luxeon M   |    |
| 32.8 x 18   | LL01CR-WIxxL02-M2<br>(Tape available) | FWHM: 15° 25° 40°                  | Cree XML   |    |
| 34 x 15.7   | LL01CR-BGS24L06                       | FWHM: 24°                          | Cree CXA1507   |    |
| 34.4 x 18.8 | LL01ED-AKxxL06                        | Full angle: 25° 40°                | Cree MC-E Color, XM-L Color<br>Edison Federal 5050 Color<br>Osram Ostar SMD color  |    |
| 34.5 x 18.6 | LL01ED-PMxxL06                        | Full angle: 25° 40°                | Edison 1LA5  |    |
| 35 x 10.65  | LL01CR-ADT30L06                       | FWHM: 30°                          | Cree XP-E, XP-G2, MC-E/ Color<br>Lumileds Luxeon T<br>Osram Oslon Square, Ostar<br>Edison ET-3535<br>Citizen CLL430  |    |
| 35 x 10.7   | LL01ED-ACZxxL02                       | FWHM: 24° 38°                      | Cree XP-E, XM-L, XM-L2, XM-L EZW<br>Edison ET-3535, Federal 5050(White)<br>Osram Oslon Square, Ostar   |   |
| 35 x 20     | LL01CR-BLU03L06                       | FWHM: 3°                           | Cree XP-E2, XP-G2<br>Osram Oslon Square  |  |
| 35 x 20.15  | LL01CR-ZExxL02                        | Full angle: 20° 30° 45°            | Cree MTG, MKR, MT-G2<br>Lumileds Luxeon M, Luxeon S<br>Seoul A4<br>Sharp Mini Zenigata   |  |







| DXH (mm)       | Part Number          | Full Angle              | LED   | Picture   |
|----------------|----------------------|-------------------------|---|---|
| 35.8 x 15.75   | LL01CR-FOxxL06       | Full angle: 40°         | Cree XM-L2<br>Edison ET-3535, Federal 5050(White)<br>Lumileds Luxeon T<br>Osram Oslon Square  |    |
| 35.8 x 15.85   | LLL01CR-BMxxL06      | Full angle: 15° 40°     | Cree XRE  |    |
| 35.8 x 16.5    | LL01ED-BBxxL06       | Full angle: 25° 40° 60° | Edison 1LA5   |    |
| 37.2 x 15.35   | LL01OS-BWxxL06       | Full angle: 10° 30°     | Edison 1LA5<br>Lumileds Rebel, Luxeon A, Luxeon R<br>Nichia NVS19A, 183A<br>Osram W5AM, Oslon SSL 80/ SSL 150<br>Seoul P4, Z5                             |    |
| 37.2 x 15.35   | LL01OS-BYxxL06       | Full angle: 10° 30°     | Cree XP-E2<br>Edison 1LA5, Federal 3045/ 3535<br>Lumileds Rebel, Luxeon A/R/T<br>Nichia NVS19A, 183A<br>Osram W5AM, Oslon SSL 80/ SSL 150<br>Seoul P4, Z5 |    |
| 38.1 x 20.2    | LL01ED-BCQxxL06-M1   | FWHM: 15° 15°x30°       | Cree XM-L Color<br>Edison Federal 5050 Color<br>Osram Ostar SMD color   |   |
| 38.1 x 20.9    | LL01CR-BCQxxL06-M1   | FWHM: 15° 15°x30°       | Cree MC-E Color   |   |
| 39.1x34.1x32.2 | LL01LU-ABW1050L02-M2 | FWHM: 10°x50°           | All single chip LED.  |   |
| 42 x 9.65      | LL01SP-AVA40L06      | FWHM: 40°               | Sharp Petite/ Mini/ Mega Zenigata   |    |
| 43.8 x 24.5    | LL01ED-AYxxL06-M2    | Full angle: 10° 38°     | Cree XM-L2, MCE, MTG, MTG2<br>Citizen CLL010<br>Lumileds Luxeon M/ Luxeon S   |    |



35 mm  
|  
44 mm



43 mm  
|  
76 mm

| DXH (mm)    | Part Number                            | Degree              | LED   | Picture   |
|-------------|--|---------------------|---|---|
| 43.8 x 24.5 | LL01ED-FGxxL06-M2                      | Full angle: 10° 38° | Edison VF23   |  |
| 45 x 26.3   | LL01CR-ANWxxL06                        | FWHM: 10° 20° 30°   | Cree MC-E Color<br>Osram Ostar SMD color  |  |
| 45 x 26.3   | LL01CR-BJH10L06                        | FWHM: 10°           | Cree XM-L   |  |
| 52 x 27     | LL01ZZ-AHA05L06-M2<br>(Tape available) | FWHM: 5°            | Cree XP-E, XM-L2<br>Lumileds Rebel, Rebel ES<br>Nichia NCS19, NVS19, NVS19B<br>Osram Oslon SSL 80 |  |
| 69 x 22.7   | LL01CT-BBXxxL06                        | FWHM: 24° 38°       | Citizen CLL020  |  |
| 75.8 x 35.2 | LL01CR-ADPxxL06                        | FWHM: 15° 24° 38°   | Cree MK-R, MT-G EZW, MT-G2<br>Lumileds Luxeon M, Luxeon S   |  |























LENS Series

## COB Solution

Commercial lighting

| DXH (mm)                       | Part Number          | Degree                     | Material | LED   | Picture   |
|--------------------------------|----------------------|----------------------------|----------|---|---|
| 29.9 X 12                      | LL01ED-ACA24L14      | FWHM: 24°                  | PC1250Y  | Edison EdiPower II EPCX-HR96  |    |
| 30X17                          | LL01NI-QlxxL06-M2    | Full angle: 25°            | PMMA     | Nichia 110  |    |
| 34x15.7                        | LL01CR-ABGxxL02      | Full angle:<br>24° 38° 55° | PC       | Cree MTG<br>Lumileds Luxeon M/ S<br>Nichia 036  |    |
| 43.8x24.5                      | LL01ED-AYxxL06       | FWHM:<br>10° 38°           | PMMA     | Cree CXA1304/ 1507/ 1512<br>Citizen CLL010/CLL020<br>Lumileds Luxeon M/ S<br>Nichia 036<br>Sharp Mini Zenigata  |    |
| 44x14.1                        | LL01ED-ABY24L02      | FWHM: 24°                  | PC       | Cree XM-L/ XM-L EZW/ CXA15xx<br>Nichia 036/ 066<br>Sharp Petite Zenigata  |    |
| 44x14.1                        | LL01CR-AQH(38/45)L02 | FWHM:<br>38° 45°           | PC       | Cree XM-L/ XM-L EZW/ CXA15xx<br>Nichia 036/ 066<br>Sharp Petite Zenigata  |    |
| 45X23.6 /<br>47.2x25.6         | LL01CR-PVxxL02-Mx    | Full angle:<br>45° 60° 80° | PC       | Cree CXA1304/ 1507/ 1512<br>Citizen CLL010/CLL020<br>Lumileds Luxeon M/ S<br>Nichia 036/ 066/ 110/ 121<br>Sharp Mini Zenigata   |    |
| 50X10.4                        | LL01CR-ABHxxL02      | FWHM:<br>40° 60°           | PC       | Cree CXA1507/ 1512<br>Citizen CLL030<br>Edison EdiPower II EPCX-HR96<br>Nichia 036/ 066/ 110/ 121<br>Sharp Mini Zenigata  |    |
| 74x3                           | LL01CR-BAAxxL02      | FWHM: 24°                  | PC       | Cree CXA2520/ 2530<br>Edison EdiPower II EPCX-HR96/ EPSX-HRB8   |   |
| 74.4x13 /<br>76.4x16.7(Holder) | LL01ZZ-AOFxxL06-Mx   | FWHM:<br>24° 38°           | PMMA     | Cree CXA15xx/ 1816/ 25xx<br>Citizen CLL020<br>Edison EdiPower II EPCX-HR96/ EPSX-HRB8<br>Lumileds LHCI 1203/ 1204/ 1205/ 1208<br>Nichia 066/ 121<br>Sharp Mini/ Mega Zenigata |  |

| DXH (mm)                    | Part Number        | Degree               | Material     | LED   | Picture   |
|-----------------------------|--------------------|----------------------|--------------|---|---|
| 75.8x24.35                  | LL01ED-ABXxxL06    | FWHM: 24° 38°        | PMMA         | Cree CXA15xx/ 1816/ 25xx<br>Citizen CLL030/ 040<br>Edison EPCX-HR96/ EPSX-HRB8/ HRBF/HRBJ<br>Lumileds LHCI 1204/ 1205/ 1208<br>Nichia 066/ 121<br>Sharp Mini/ Mega Zenigata   |    |
| 76x22.5                     | LL01CR-BAYxxL06    | FWHM: 24° 38°        | PMMA         | Cree CXA15xx<br>Citizen CLL020/ 030<br>Lumileds LHCI 1203/ 1204/ 1205/ 1208<br>Nichia 066<br>Sharp Mega Zenigata  |    |
| 76x23                       | LL01CT-AMYxxL06    | FWHM: 24° 38°        | PMMA         | Cree CXA1816/ 25xx/ 3050<br>Citizen CLL030/ 040<br>Osram Ostar<br>Lumileds LHCI 1204/ 1205<br>Nichia 121<br>Sharp Mini Zenigat  |    |
| 76.1 x 12.7                 | LL01CT-AZWxxL02-P  | FWHM:<br>15° 24° 38° | PC           | Cree CXA1512<br>Citizen CLL020<br>Lumileds LHCI 1203/ 1204/ 1205/ 1208<br>Edison EdiPower II EPSX-HRB8/ EPSX-HRBF<br>Sharp Mini/ Mega Zenigata                                |    |
| 84.6x18/<br>90.8x22(Holder) | LL01CT-APGxxL06-Mx | FWHM: 24° 38°        | PMMA         | Cree CXA15xx/ 25xx/ 3050<br>Citizen CLL030<br>Edison EdiPower II EPSX-HRB8/ HRBF/HRBJ<br>Lumileds LHCI 1203/ 1204/ 1205/ 1208<br>Nichia 066/ 121<br>Sharp Mini/ Mega Zenigata |    |
| 87x44.25                    | LL01ED-IHxxL-02    | Full angle: 60°      | PC LEV1700KL | Cree CXA25xx/ 3050<br>Citizen CLL040<br>Edison 1LA5/ EPCX-HR96/ EPSX-HRB8/HRBJ  |    |
| 88.5 x 15                   | LL01CT-AZNxxL02-P  | FWHM:<br>15° 24° 38° | PC           | Cree CXA2520<br>Citizen CLL030<br>Edison EdiPower II EPSX-HRB8/ EPSX-HRBF<br>Lumileds LHCI 1203/ 1204/ 1205/ 1208<br>Sharp Mini/ Mega Zenigata                                |   |
| 90.6x22/<br>90.6x27(Holder) | LL01ED-ASAxxLxx-P  | FWHM:<br>12° 24° 38° | PMMA / PC    | Cree CXA1816/ 25xx<br>Citizen CLL020/ 030/ 040<br>Lumileds LHCI 1204/ 1205/ 1208<br>Nichia 121<br>Sharp Mini/ Mega Zenigata   |  |





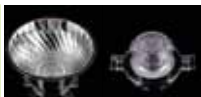

























LENS Series

## Reflector

Commercial lighting

| DXH (mm)                 | Part Number       | Degree               | Material        | LED   | Reflector   | Fitting  |
|--------------------------|-------------------|----------------------|-----------------|---|---|--|
| 35.2 x 7.8               | LL01ED-AJMxxR49   | FWHM: 24° 38°        | Aluminum        | Cree CXA1304/1507(holder)/1512<br>Citizen CLL010<br>Nichia 036<br>Sharp Mini/ Petite Zenigata   |    |                   |
| 44 x 11.8                | LL01CT-AMXxxR49   | FWHM: 45°            | Aluminum        | Citizen CLL010(holder)<br>Nichia 036<br>Sharp Mini/ Petite Zenigata   |    |                   |
| 45X19.4                  | LL01BR-TYRxxR34-P | FWHM:<br>24° 34° 50° | Plastic Plating | Cree CXA1304/1507/1512/1816<br>Citizen CLL010/020/030<br>Edison EPCX-HR96<br>Sharp Mini Zenigata  |    |  |
| 50 X 19                  | LL01CT-AJZxxR49   | FWHM:<br>36° 50°     | Aluminum        | Cree CXA1304/1507/1512<br>Citizen CLL010/020(holder)<br>Nichia 036/ 066<br>Sharp Mini Zenigata  |    |                   |
| 50 x 19                  | LL01ED-ALixxR49   | FWHM:<br>24° 38° 55° | Aluminum        | Cree CXA1304/1507/1512/1816<br>Citizen CLL010/020<br>Edison EPCX-HR96(holder)<br>Nichia 036/ 066<br>Sharp Mini Zenigata                         |    |                   |
| 50 X 30                  | LL01CIOTxxR2-P    | FWHM:<br>20° 33° 45° | Plastic Plating | Citizen CLL030(holder)<br>Edison EPCX-HR96<br>Sharp Mini Zenigata   |    |                   |
| 50 X 30/<br>50.5X30(45°) | LL01ED-AKYxxR49   | FWHM:<br>24° 38° 45° | Aluminum        | Cree CXA1507/1512<br>Edison EPCX-HR96(holder)<br>Nichia 036/ 066<br>Sharp Mini Zenigata   |    |                   |
| 50.5 x 29.5              | LL01ED-AKVxxR49   | FWHM: 36°            | Aluminum        | Cree CXA1507/1512/2540<br>Citizen CLL020<br>Edison EPSX-HRB8(holder)<br>Nichia 036/ 066<br>Sharp Mini Zenigata                                  |    |                   |
| 70 X 35                  | LL01ZZ-AAAxL49    | FWHM:<br>24° 38° 55° | Aluminum        | Cree CXA1507/1512/1816<br>Citizen CLL020/030<br>Edison EPCX-HR96<br>Lumileds LHCI 1204/1205/1208<br>Nichia 036/ 066/ 121<br>Sharp Mini Zenigata |   | <br>Fresnel Lens |
| 75 x 20.1                | LL01ED-ALAxR49    | FWHM: 24° 38°        | Aluminum        | Cree CXA1507/1512<br>Citizen CLL020/030<br>Edison EPSX-HRB8(holder)<br>Nichia 066/ 121<br>Sharp Mega Zenigata                                   |  |                 |

| DXH (mm)    | Part Number              | Degree                  | Material        | LED  | Reflector   | Fitting   |
|-------------|--------------------------|-------------------------|-----------------|--|---|---|
| 75 x 40     | LL01SP-ATHxxR49          | FWHM:<br>15° 24° 38°    | Aluminum        | Cree CXA1507/1512/1816(holder)<br>Citizen CLL020/CLL040(holder)<br>Lumileds LHCI 1203/1204/1205/12808<br>Nichia 036/066/121<br>Sharp Mega Zenigata(holder) |    |    |
| 75 x 45     | LL01CR-AYGxxR49          | FWHM:<br>15° 24° 38°    | Aluminum        | Cree CXA1304/15xx(connector)/1816<br>Citizen CLL010/020/030<br>Edison EPCX-HR96<br>Sharp Mini/ Mega Zenigata   |    |    |
| 75 x 45     | LL01CT-AYTxxR35-P        | FWHM:<br>15° 24° 38°    | Plastic Plating | Citizen CLL020(connector)  |    |    |
| 75 x 45     | LL01CR-BGCxxR49-BKG15L02 | FWHM:<br>15° 24° 38°    | Aluminum        | Cree CXA1816/ 1830   |    |    |
| 75.8 x 20.1 | LL01CT-ALNxxR49          | FWHM:<br>38° 45°        | Aluminum        | Cree CXA1507/1512<br>Citizen CLL020(holder)<br>Nichia 036/066<br>Sharp Mini Zenigata   |    |    |
| 85 x 23.5   | LL01ED-AKAxxR49          | FWHM: 60°               | Aluminum        | Cree CXA1816/25xx(holder)/3050<br>Citizen CLL030<br>Edison EPSX-HRB8/HRBF/HRBJ(holder)<br>Nichia 066/121<br>Sharp Mini/ Mega Zenigata                      |    |    |
| 90 x 40     | LL01CR-BDJ80R49          | FWHM: 80°               | Aluminum        | Cree CXA1816/ 1820(holder)   |    |    |
| 90 x 50     | LL01SP-ASOxxR49          | FWHM:<br>5° 24° 38° 55° | Aluminum        | Cree CXA1816(holder)<br>Citizen CLL030/CLL040(holder)<br>Lumileds LHCI 1203/1204/1205/12808<br>Nichia 066/ 121<br>Sharp Mega Zenigata(holder)              |    |    |
| 90 x 50     | LL01CR-AYMxxR35-P        | FWHM:<br>15° 24° 38°    | Plastic Plating | Cree CXA25xx(connector)  |   |  |
| 90 x 50     | LL01CT-AYXxxR35-P        | FWHM:<br>15° 24° 38°    | Plastic Plating | Citizen CLL030(connector)  |  |  |

| DXH (mm)    | Part Number               | Degree               | Material | LED   | Reflector   | Fitting   |
|-------------|---------------------------|----------------------|----------|---|---|---|
| 90.5 x 23.2 | LL01CT-ALOxxR49           | FWHM:<br>24° 38° 45° | Aluminum | Cree CXA1507/1512/1816<br>Citizen CLL030(holder)<br>Edison EPSX-HRB8<br>Sharp Mini/ Mega Zenigata                       |  |  |
| 91.5 x 23.2 | LL01ED-ALJxxR49           | FWHM:<br>24° 38° 45° | Aluminum | Cree CXA1816/25xx(holder)/3050<br>Citizen CLL030<br>Edison EPSX-HRBF/ HRBJ(holder)<br>Nichia 121<br>Sharp Mega Zenigata |  |  |
| 93 x 35     | LL01CT-BKY15R49-BLB110L51 | FWHM: 15°            | Aluminum | Citizen CLL032  |  |  |
| 93 x 35     | LL01CT-BKY24R49-BLB140L51 | FWHM: 24°            | Aluminum | Citizen CLL032  |  |  |
| 93 x 35     | LL01CT-BKY36R49-BLB130L51 | FWHM: 36°            | Aluminum | Citizen CLL032  |  |  |
| 93 x 35     | LL01CT-BKY75R49-BLB120L51 | FWHM: 75°            | Aluminum | Citizen CLL032  |  |  |
| 100 x 57    | LL01CR-BIYxxR49-BIZ120L0  | FWHM:<br>13° 24°     | Aluminum | Cree CXA1816/ 1830  |  |  |
| 116 x 32    | LL01ED-AKXxxR49           | FWHM: 24° 38°        | Aluminum | Cree CXA25xx(holder)/3050<br>Citizen CLL030<br>Edison EPSX-HRBJ/HRBF(holder)<br>Nichia 121<br>Sharp Mega Zenigata       |  |  |





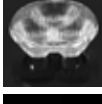

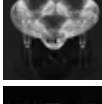





LENS Series










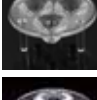

## Multi LENS

Commercial lighting








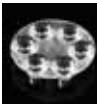




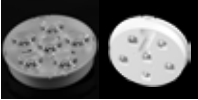


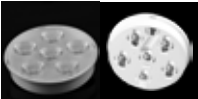





| DXH (mm)   | Part Number     | Degree                      | LED   | Picture   |
|------------|-----------------|-----------------------------|---|---|
| 21.8x7.9   | LL03CR-ARHxxL06 | FWHM: 38°                   | Cree XPE  |    |
| 23.1x10.83 | LL03CR-BDMxxL06 | FWHM: 20° 40° 60°           | Cree XTE  |    |
| 23.1x10.83 | LL03LU-MKxxL06  | Full angle: 15° 25°         | Nichia NCS19A/NVS19A  |    |
| 23.1x11    | LL03LU-DMxxL06  | Full angle: 15° 25° 40°     | Cree XPE/XPG<br>Edison Federal 3045<br>Lumileds Rebel<br>Osram Oslon SSL 80 |    |
| 31x11.2    | LL03ED-CTxxL06  | Full angle: 38° 80°         | Cree MX6<br>Edison 1LA5<br>Lumileds Luxeon T<br>Nichia 757                  |    |
| 33x6.9     | LL03ZZ-EUxxL06  | Full angle: 38°             | Cree XRE/MX6<br>Nichia 183A/757   |    |
| 33.2x9.8   | LL03OS-GKxxL06  | Full angle: 25° 40° 60° 80° | Osram Oslon SSL 80  |    |
| 33.2x10.2  | LL03ED-GKxxL06  | Full angle: 25° 40° 60°     | Edison Federal 3045<br>Seoul Z5   |   |
| 33.2x10.3  | LL03ED-UYxxL06  | Full angle: 40° 60°         | Edison Federal 3045<br>Lumileds Luxeon T                                    |  |
| 33.2x10.15 | LL03CR-GKxxL06  | Full angle: 80°             | Cree XPG2   |  |


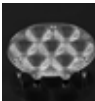
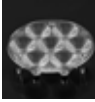





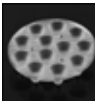
| DXH (mm)  | Part Number     | Degree                  | LED  | Picture   |
|-----------|-----------------|-------------------------|--|---|
| 34x9.9    | LL03CR-CExxL06  | Full angle: 38°         | Cree XRE/XTE/MX3/MX6<br>Edison Federal 5050<br>Lumileds Rebel<br>Nichia 183A<br>Osram Oslon Square |    |
| 34x9.9    | LL03ED-CExxL06  | Full angle: 38°         | Edison 1LA5  |    |
| 34.8x10.8 | LL03CR-EQxxL06  | Full angle: 38°         | Cree XRE   |    |
| 34.9x10.4 | LL03ED-AllxxL06 | FWHM: 30°               | Edison 1LA5  |    |
| 35x7      | LL03DD-AMGxxL06 | FWHM: 38°               | Cree XPE   |    |
| 35x7.9    | LL03CR-ARlxxL0  | FWHM: 38°               | Cree XPE   |    |
| 35x8.2    | LL03CR-HKxxL06  | Full angle: 40°         | Cree MX6<br>Nichia 383/757<br>Lumileds Luxeon A<br>Osram Oslon Square                              |   |
| 35x9      | LL03CR-EKxxL06  | Full angle: 40° 60°     | Cree MX3<br>Nichia 183A  |  |
| 35x9.2    | LL03ED-EKxxL06  | Full angle: 25° 40° 60° | Edison 1LA5  |  |
| 35x9.6    | LL03CR-RXxxL06  | Full angle: 25° 40° 60° | Cree XPE/XPG<br>Lumileds Luxeon T  |  |



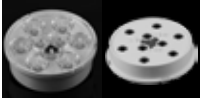







| DXH (mm)   | Part Number     | Degree                                 | LED  | Picture   |
|------------|-----------------|--|--|---|
| 35x10.5    | LL03NI-QQxxL06  | Full angle: 15°                        | Nichia NVS19A/NCS19A   |    |
| 35x10.6    | LL03LU-DOxxL06  | Full angle: 15° 25° 40°                | Cree XPE/XPG<br>Edison Federal 3045<br>Lumileds Rebel<br>Osram Oslon SSL 80/Square |    |
| 35x10.8    | LL03CR-BDOxxL06 | FWHM: 15° 25°                          | Cree XBD   |    |
| 37x8.7     | LL03ED-AIHxxL06 | FWHM: 30°                              | Edison 1LA5  |    |
| 37.7x10.5  | LL03ED-ASxxL06  | Full angle: 38° 60°                    | Edison 1LA5  |    |
| 43.9x9.5   | LL03ED-BCxxL06  | Full angle: 15° 25°                    | Edison 1LA5<br>Lumileds Luxeon T   |    |
| 44.5x10.2  | LL03CR-GWxxL06  | Full angle: 25°                        | Cree XRE/MX6<br>Nichia 183A/757  |    |
| 50x14.5    | LL03CR-AZxxL06  | Full angle: 25° 45° 60°                | Cree XPE/XPG   |   |
| 50.5x13    | LL03ED-BAxxL06  | Full angle: 25° 40° 60°                | Edison 1LA5  |  |
| 50.5x13    | LL03ED-AZxxL06  | Full angle: 25° 45° 60°                | Edison 1LA5  |  |
| 50.5x20.65 | LL03ED-AFxxL06  | Full angle:<br>10° 30° 45° 60° 40°x70° | Edison 1LA5  |  |

| DXH (mm)  | Part Number     | Degree                  | LED  | Picture   |
|-----------|-----------------|-------------------------|--|---|
| 22x6.7    | LL04CR-ABDxxL06 | FWHM: 24° 36°           | Cree XPE/XBD   |    |
| 22.2x6.7  | LL04CR-GPxxL06  | Full angle: 25° 38° 45° | Cree XPE<br>Osram Oslon SSL 80<br>Samsung LH351B           |    |
| 22.2x6.8  | LL04LU-GPxxL06  | Full angle: 15° 25° 45° | Lumileds Rebel/Rebel Es<br>Samsung LH351B                  |    |
| 25.4x10.4 | LL04ED-EXxxL06  | Full angle: 60°         | Cree XPE<br>Edison Federal 3045                            |    |
| 25.4x10.4 | LL04ZZ-EXxxL06  | Full angle: 30°         | Cree XPE<br>Edison Federal 3045<br>Lumileds Rebel          |    |
| 25.4x10.5 | LL04LU-DNxxL06  | Full angle: 15° 25° 40° | Cree XPE/XPG<br>Lumileds Rebel<br>Osram Oslon SSL 80       |    |
| 25.4x11.3 | LL04LU-MKxxL06  | Full angle: 15°         | Lumileds Rebel   |    |
| 35x7      | LL04DD-AMGxxL06 | FWHM: 38°               | Cree XPE<br>Lumileds Rebel ES<br>Nichia 757                |    |
| 35x9.7    | LL04CR-RXxxL06  | Full angle: 25° 40° 60° | Cree XPE/XPG/XBD   |   |
| 35x10.4   | LL04LU-DOxxL06  | Full angle: 15° 25° 40° | Cree XPE/XPG<br>Lumileds Rebel<br>Osram Oslon SSL80/Square |  |
| 35x10.5   | LL04NI-DOxxL06  | Full angle: 25° 40°     | Nichia 757   |  |



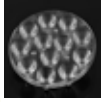

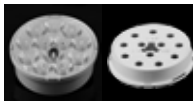





| DXH (mm)  | Part Number     | Degree                     | LED   | Picture   |
|-----------|-----------------|----------------------------|---|---|
| 35x10.5   | LL04NI-QQxxL06  | Full angle: 15°            | Nichia NCS19A/NVS19A  |    |
| 37x9.8    | LL04OS-GKxxL06  | Full angle: 40° 60° 80°    | Cree XPE/XPG<br>Citizen ET-3535<br>Lumileds Luxeon T<br>Nichia NCS19A/NVS19A<br>Osram Oslon SSL 80<br>Seoul Z5P   |    |
| 37x10.3   | LL04ED-GKxxL06  | Full angle: 25° 40° 60°    | Edison Federal 3045   |    |
| 37x10.3   | LL04ED-UYxxL06  | Full angle: 24° 36°        | Edison Federal 3045   |    |
| 43.9x9.5  | LL04ED-BDxxL06  | Full angle: 15° 25° 40°    | Edison 1LA5   |    |
| 35.8x6.3  | LL05CR-BFRxxL06 | FWHM: 25° 40° 60°          | Cree XTE<br>Nichia NVS19B/ 757  |    |
| 35.8x6.5  | LL05CR-FRxxL06  | Full angle: 25° 40° 60°    | Cree XPE/XPG  |    |
| 43.9x8.6  | LL06ED-BExxL06  | Full angle: 15° 25°        | Edison 1LA5   |   |
| 50x9.65   | LL06CR-RXxxL06  | Full angle: 25° 40° 60°    | Cree XPE/XPG/XPG2/XTE/XBD<br>Edison Federal 3535/ET-3535<br>Lumileds Rebel/RebelES/LuxeonA/T<br>Nichia NCS19A/NVS19B<br>Osram Oslon SSL80/Oslon Square<br>Samsung LH351B<br>LGIT ceramic 3535 |  |
| 73.3x11.5 | LL06ED-ADxxL06  | Full angle: 8° 25° 40° 60° | Edison 1LA5   |  |

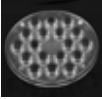



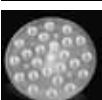


| DXH (mm)                      | Part Number       | Degree                      | LED  | Picture   |
|-------------------------------|-------------------|-----------------------------|--|---|
| 73.2x13.5/<br>76x16.1(holder) | LL06CR-CKxxL06-Mx | Full angle: 10° 25°         | Cree XRE   |    |
| 73.2x13.5/<br>76x16.2(holder) | LL06ED-AExxL06-Mx | Full angle: 8° 25° 40°      | Edison 1LA5  |    |
| 73.2x13.5/<br>76x16.2(holder) | LL06ED-ATxxL06-Mx | Full angle: 40°             | Cree XPE/XPG/XBD/MX3(6)/XML<br>Edison 1LA5/Federal3045/3535/5050/ET-3535<br>Lumileds Rebel/Luxeon M<br>Nichia NCS19A/183A/NVS19A<br>Osram Oslon SSL 80/150/Square<br>Samsung Sunnix8 |    |
| 73.2x13.5/<br>76x16.2(holder) | LL06ED-DKxxL06-Mx | Full angle: 60°             | Cree XML/MCE/MKR<br>Citizen CLL430<br>Edison 1LA5<br>Lumileds Rebel/Luxeon M<br>Nichia 183A<br>Osram Oslon SSL 80<br>Seoul A4  |    |
| 73.3x16                       | LL06CY-TTxxL06    | Full angle: 45°             | Cree XPE/XTE/XBD   |    |
| 35.8x6.3                      | LL07CR-BFRxxL06   | FWHM: 25° 40° 60°           | Cree XTE<br>Nichia NVS19B/757  |    |
| 35.8x6.5                      | LL07CR-FRxxL06    | Full angle: 25° 40° 60°     | Cree XPE/XPG   |   |
| 39.2x10.8                     | LL07ZZ-FVxxL06    | Full angle: 15° 25° 30° 60° | Cree XPE<br>LGIT ceramic 3535<br>Seoul Z5  |  |
| 43.9x8.55                     | LL07ED-BFxxL06    | Full angle: 15° 25°         | Edison 1LA5<br>Lumileds Rebel ES   |  |

| DXH (mm)   | Part Number     | Degree                  | LED   | Picture   |
|------------|-----------------|-------------------------|---|---|
| 47x9.8     | LL07OS-GKxxL06  | Full angle: 40° 60° 80° | Edison ET-3535<br>Lumileds Luxeon T<br>Nichia NCS19A/NVS19A<br>Osram Oslon SSL 80<br>Seoul Z5P  |    |
| 47x10.3    | LL07ED-UYxxL06  | Full angle: 40° 60°     | Edison Federal 3045   |    |
| 47x10.5    | LL07ED-GKxxL06  | Full angle: 25° 40° 60° | Edison Federal 3045<br>Seoul Z5   |    |
| 50x10.3    | LL07CR-RXxxL06  | Full angle: 40° 60°     | Cree XPE/XPG/XPG2/XTE/XBD<br>Edison Federal 3535/ET-3535<br>Lumileds Rebel/RebelES/LuxeonA/T<br>Nichia NCS19A/NVS19B<br>Osram Oslon SSL80/Oslon Square<br>Samsung LH351B<br>LGIT ceramic 3535 |    |
| 50.35x10.7 | LL07ZZ-FUxxL06  | Full angle: 15° 25°     | Cree XPE/XPG<br>Edison Federal 3045<br>Lumileds Rebel<br>Osram Oslon SSL80/Oslon Square   |    |
| 43x8.5     | LL08NI-BEBxxL02 | FWHM: 25° 40°           | Nichia 757  |    |
| 45x7       | LL09CR-FRxxL06  | Full angle: 25° 40° 60° | Cree XPE/XPG  |    |
| 67x9.8     | LL09OS-GKxxL06  | Full angle: 40° 60° 80° | Cree XPE/XPG<br>Edison ET-3535<br>Lumileds Luxeon T<br>Nichia NCS19A/NVS19A<br>Osram Oslon SSL 80<br>Seoul Z5P  |   |
| 67x10.3    | LL09ED-UYxxL06  | Full angle: 40° 60°     | Edison Federal 3045   |  |

| DXH (mm)                        | Part Number       | Degree                  | LED   | Picture   |
|---------------------------------|-------------------|-------------------------|---|---|
| 67x10.8                         | LL09ED-GKxxL06    | Full angle: 25° 40° 60° | Edison Federal 3045   |    |
| 70x10.3                         | LL09CR-RXxxL06    | Full angle: 40°         | Cree XPE/XPG/XPG2/XTE/XBD<br>Edison Federal3045/3535/ET-3535<br>Lumileds Rebel/Rebel Es/LuxeonA/T<br>Nichia NCS19A/NVS19B<br>Osram Oslon SSL80/Square<br>Samsung LH351B |    |
| 90.6x16.5/<br>93.8x20.1(holder) | LL09ED-ATxxL06-Mx | Full angle: 15° 25° 45° | Cree MX3/MX6/XML/XML EZW/XBD<br>Edison 1LA5/Federal 3045/5050<br>Lumileds Rebel<br>Nichia NCS19A/183A/NVS19A<br>Samsung Sunnix8<br>LGIT ceramic3535                     |    |
| 90.6x16.5/<br>93.8x20.1(holder) | LL09ED-BQxxL06-Mx | Full angle: 60°         | Edison 1LA5   |    |
| 90.6x16.5/<br>93.8x20.1(holder) | LL09ED-BZxxL06-Mx | Full angle: 15° 25°     | Edison 1LA5<br>Lumileds Rebel ES  |    |
| 90.6x16.5                       | LL09ED-MSxxL06    | Full angle: 40°         | Edison 1LA5   |    |
| 90.6x18.8                       | LL09CY-TTxxL06    | Full angle: 45°         | Cree XPE/ XTE   |    |
| 90.75x16.5                      | LL09ED-BZxxL06    | Full angle: 15° 25°     | Edison 1LA5<br>Lumileds Rebel ES  |   |
| 95.4x13.5                       | LL09ED-ACxxL06    | Full angle: 15° 25°     | Edison 1LA5   |  |
| 45x7                            | LL12CR-FRxxL06    | Full angle: 25° 40° 60° | Cree XPE/ XPG   |  |



| DXH (mm)                         | Part Number       | Degree                  | LED   | Picture   |
|----------------------------------|-------------------|-------------------------|---|---|
| 67x9.8                           | LL12OS-GKxxL06    | Full angle: 40° 60° 80° | Cree XPE/XPG<br>Edison ET-3535<br>Lumileds Luxeon T<br>Nichia NCS19A/NVS19A<br>Osram Oslon SSL 80<br>Seoul Z5P  |    |
| 67x10.3                          | LL12ED-UYxxL06    | Full angle: 40° 60°     | Edison Federal 3045   |    |
| 67x10.8                          | LL12ED-GKxxL06    | Full angle: 25° 40° 60° | Edison Federal 3045   |    |
| 70x10.3                          | LL12CR-RXxxL06    | Full angle: 40° 60°     | Cree XPE/XPG/XPG2/XTE/XBD<br>Edison Federal 3045/3535/ET-3535<br>Lumileds Rebel/Rebel Es/LuxeonA/T<br>Nichia NCS19A/NVS19B<br>Osram Oslon SSL 80/Oslon Square<br>Samsung LH351B |    |
| 90.6x16.5/<br>93.5x20.3 (holder) | LL12ED-BQxxL06-Mx | Full angle: 25°         | Edison 1LA5   |    |
| 95x11                            | LL12ED-HIxxL06    | Full angle: 40°         | Edison 1LA5   |    |
| 95x11.2                          | LL12ED-BGxxL06    | Full angle: 15° 25° 40° | Edison 1LA5   |    |
| 122x13.4                         | LL12ED-AGxxL06    | Full angle: 25° 40°     | Edison 1LA5   |   |
| 62x8.5                           | LL13NI-BEBxxL02   | FWHM: 25° 40°           | Nichia 757  |  |
| 95x11.1                          | LL15ED-BHxxL06    | Full angle: 15° 25° 40° | Edison 1LA5   |  |









| DXH (mm)   | Part Number     | Degree                  | LED                     | Picture   |
|------------|-----------------|-------------------------|-------------------------|---|
| 110x13.1   | LL18ED-BIxxL06  | Full angle: 15° 25° 40° | Edison 1LA5             |  |
| 110x13.1   | LL18NI-BEBxxL06 | FWHM: 25° 40°           | Nichia 757              |  |
| 99x90x10.3 | LL24CR-VExxL02  | Full angle: 15°         | Cree XPE/ XPG           |  |
| 113.6x76x9 | LL24CR-PFxxL02  | Full angle: 15°         | Cree XPE/ XPG           |  |
| 174.5x12.7 | LL24ED-ABxxL06  | Full angle: 15° 25° 45° | Edison 1LA5             |  |
| 140x12.6   | LL36ED-AAxxL06  | Full angle: 15° 25° 45° | Edison 1LA5             |  |
| 180x13.1   | LL60ED-BOxxL06  | Full angle: 25° 45°     | Edison 1LA5<br>Seoul A4 |  |



LENS Series

# Convex Lens

Commercial lighting

| DXH (mm)  | Part Number     | Degree              | LED                     | Picture   |
|-----------|-----------------|---------------------|-------------------------|---|
| 16.7x6.7  | LL01ED-AWxxL    | Full angle: 60°     | All single chip LED.    |    |
| 22.1x6.8  | LL01ED-AVxxL    | Full angle: 60°     | All single chip LED.    |    |
| 22.1x7.6  | LL01ED-DPxxL    | Full angle: 60°     | All single chip LED.    |    |
| 22.1x10.5 | LL01ED-CCxxL    | Full angle: 40°     | All single chip LED.    |    |
| 22.5x7.6  | LL01ED-AQxxR    | Full angle: 60°     | All single chip LED.    |    |
| 26.7x17.8 | LL01ED-AQ60R-Mx | Full angle: 60°     | Edison 1LA5<br>Seoul P4 |    |
| 26.7x17.8 | LL01ED-CJxxL-Mx | Full angle: 60°     | All single chip LED.    |    |
| 28.8x7.3  | LL01ZZ-FSxxL    | Full angle: 60°     | All single chip LED.    |    |
| 37.2x10   | LL01OS-DCxxL    | Full angle: 56° 76° | All single chip LED.    |   |
| 60.3x32.5 | LL01ED-AIxxL-Mx | Full angle: 60°     | All single chip LED.    |  |



LENS APPLICATION  
**STREET LIGHTING**

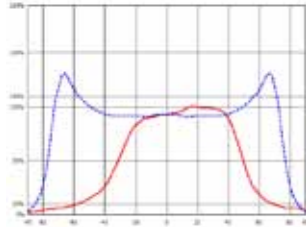
LL01CR-APM80150L02

Brightness Asymmetrical



Tape available

DxWxH(mm): 18x12.5x6.95  
FWHM : 80°x150°



(Type II ,Short)

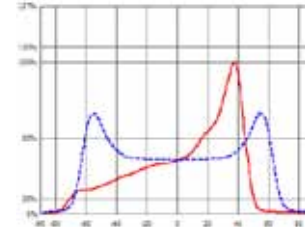
|                               |                                |
|-------------------------------|--------------------------------|
| <b>CREE</b> XT-E              | <b>OSRAM</b> --                |
| <b>PHILIPS LUMILEDS</b> Rebel | <b>SAMSUNG LED</b> Ceramic3535 |
| <b>EDISON</b> --              | <b>LG Innotek</b> --           |
| <b>NICHIA</b> NVS19           | <b>SEKUL</b> --                |

LL01CR-DL90120L02

Illuminance Asymmetrical Tunnel



DxWxH(mm): 26x15.8x9.15  
FWHM : 90°x120°



(Type I ,Very Short)

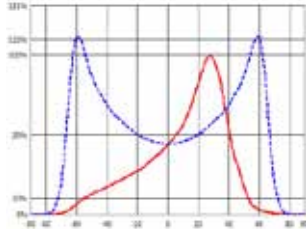
|                              |                       |
|------------------------------|-----------------------|
| <b>CREE</b> XP-E(2)/ XP-G(2) | <b>OSRAM</b> --       |
| <b>PHILIPS LUMILEDS</b> --   | <b>SAMSUNG LED</b> -- |
| <b>EDISON</b> --             | <b>LG Innotek</b> --  |
| <b>NICHIA</b> --             | <b>SEKUL</b> --       |

LL01CR-AU85135L02

Illuminance Asymmetrical



DxWxH(mm): 18x10.2x6.1  
FWHM : 80°x135°



(Type I ,Short)

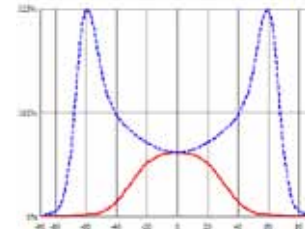
|  |                                    |
|--|------------------------------------|
| <b>CREE</b> XB-D/ XP-E(2)/ XP-G(2)       | <b>OSRAM</b> Oslon SSL 80 / Square |
| <b>PHILIPS LUMILEDS</b> Rebel / Rebel ES | <b>SAMSUNG LED</b> Ceramic3535     |
| <b>EDISON</b> --                         | <b>LG Innotek</b> Ceramic3535      |
| <b>NICHIA</b> NCS19/ NVS19/ NVS19B       | <b>SEKUL</b> --                    |

LL01CR-FT60135L02

Illuminance Symmetrical



DxWxH(mm): 18x9.3x5.9  
FWHM : 60°x135°



(Type I ,Short)

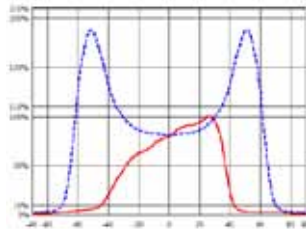
|  |                                    |
|--|------------------------------------|
| <b>CREE</b> XB-D/ XP-E(2)/ XP-G(2)               | <b>OSRAM</b> Oslon SSL 80 / Square |
| <b>PHILIPS LUMILEDS</b> LuxeonT/ Rebel/ Rebel ES | <b>SAMSUNG LED</b> Ceramic3535     |
| <b>EDISON</b> --                                 | <b>LG Innotek</b> Ceramic3535      |
| <b>NICHIA</b> NCS19/ NVS19/ NVS19B               | <b>SEKUL</b> --                    |

LL01CR-DL70130L02

Illuminance Asymmetrical Tunnel



DxWxH(mm): 26x12.7x8.65  
FWHM : 70°x130°



(Type I ,Short)

|                              |                       |
|------------------------------|-----------------------|
| <b>CREE</b> XP-E(2)/ XP-G(2) | <b>OSRAM</b> --       |
| <b>PHILIPS LUMILEDS</b> --   | <b>SAMSUNG LED</b> -- |
| <b>EDISON</b> --             | <b>LG Innotek</b> --  |
| <b>NICHIA</b> --             | <b>SEKUL</b> --       |

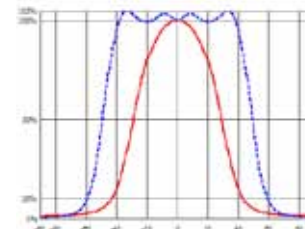
LL01CR-KM6090L02

Illuminance Symmetrical



Tape available

DxWxH(mm): 17.55x11.6x8.6  
FWHM : 60°x90°

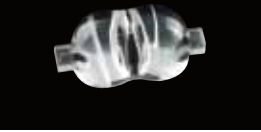


(Type I ,Very Short)

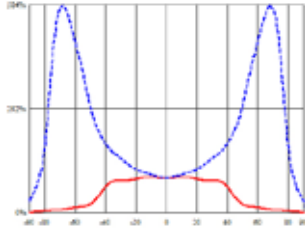
|   |                                    |
|---|------------------------------------|
| <b>CREE</b> XP-E(2)/ XP-G(2)            | <b>OSRAM</b> Oslon SSL 80 / Square |
| <b>PHILIPS LUMILEDS</b> Rebel/ Rebel ES | <b>SAMSUNG LED</b> Ceramic 3535    |
| <b>EDISON</b> --                        | <b>LG Innotek</b> Ceramic 3535     |
| <b>NICHIA</b> NCS19/ NVS19/ NVS19B/ 757 | <b>SEKUL</b> --                    |

**LL01CR-OG85150L02**

Illuminance Symmetrical



DxWxH(mm): 18x8.95x6.2  
FWHM : 85°x150°



(Type II ,Medium)

- CREE** XB-D/ XP-E(2)/ XP-G(2)
- PHILIPS LUMILEDS** Rebel/ Rebel ES
- EDISON** --
- NICHIA** NVS19B

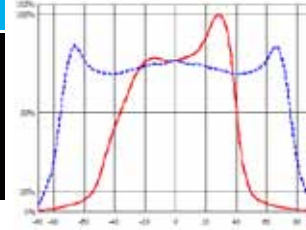
- OSRAM** Oslon Square
- SAMSUNG LED** Ceramic3535
- LG Innotech** --
- SEKUL** --

**LL01CR-XW70140L02**

Brightness Asymmetrical



DxWxH(mm): 32x17.6x9.8  
FWHM : 70°x140°



(Type II ,Short)

- CREE** XM-L
- PHILIPS LUMILEDS** Luxeon M
- EDISON** --
- NICHIA** 383

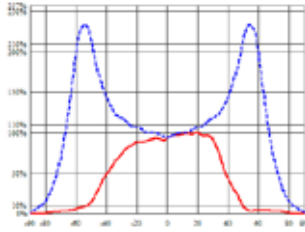
- OSRAM** --
- SAMSUNG LED** --
- LG Innotech** --
- SEKUL** --

**LL01CR-OW70130L02**

Illuminance Asymmetrical



DxWxH(mm): 17.4x12.75x7.2  
FWHM : 70°x130°



(Type I ,Short)

- CREE** XB-D/XP-E(2)/ XP-G(2)/ XM-L/ XT-E
- PHILIPS LUMILEDS** Luxeon T/ Rebel
- EDISON** --
- NICHIA** NCS19/ NVS19/ NVS19B/ 383/ 757

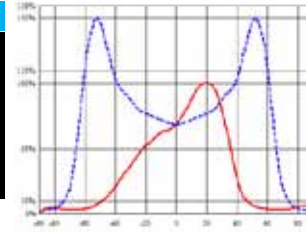
- OSRAM** Oslon SSL 80 / Square
- SAMSUNG LED** Ceramic3535
- LG Innotech** Ceramic3535
- SEKUL** --

**LL01ED-AU70120L02**

Illuminance Asymmetrical



DxWxH(mm): 9.4x42x28.4  
FWHM : 70°x120°



(Type I ,Short)

- CREE** CXA2530
- PHILIPS LUMILEDS** --
- EDISON** Edistar
- NICHIA** --

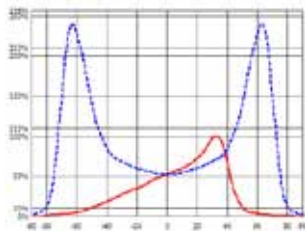
- OSRAM** --
- SAMSUNG LED** --
- LG Innotech** --
- SEKUL** --

**LL01CR-PB70140L02**

Illuminance Asymmetrical



DxWxH(mm): 22.4x11.4x6.9  
FWHM : 70°x140°



(Type II ,Short)

- CREE** XB-D/ XP-E(2)/ XP-G(2)/ XT-E
- PHILIPS LUMILEDS** --
- EDISON** --
- NICHIA** NVS19B

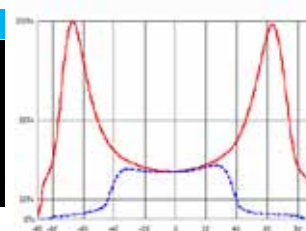
- OSRAM** --
- SAMSUNG LED** Ceramic 3535
- LG Innotech** Ceramic 3535
- SEKUL** --

**LL01ED-AU70135L02**

Illuminance Symmetrical



DxWxH(mm): 24x12.3x9.2  
FWHM : 70°x135°



(Type I ,Short)

- CREE** --
- PHILIPS LUMILEDS** --
- EDISON** 1LA5
- NICHIA** --

- OSRAM** --
- SAMSUNG LED** --
- LG Innotech** --
- SEKUL** --

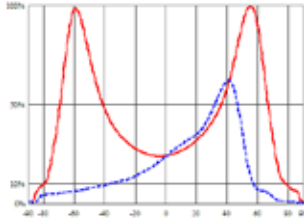
LL01ED-LP70130L02

Illuminance Asymmetrical



DxWxH(mm): 20x11.7x6.9  
FWHM : 70°x130°

- CREE --
- PHILIPS LUMILEDS --
- EDISON 1LA5
- NICHIA --



(Type II ,Short)

- OSRAM --
- SAMSUNG LED --
- LG Innotek --
- SEKUL P4

LL01LU-AEV50150L02

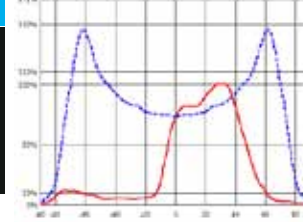
Brightness Asymmetrical



Tape available

DxWxH(mm): 18x12.5x6.3  
FWHM : 50°x150°

- CREE XP-E(2)/ XP-G(2)
- PHILIPS LUMILEDS Rebel ES
- EDISON --
- NICHIA NVS19B



(Type I ,Short)

- OSRAM Oslon Square
- SAMSUNG LED --
- LG Innotek --
- SEKUL --

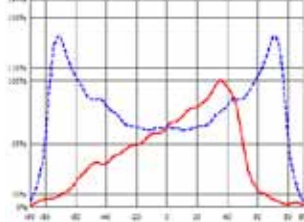
LL01ED-ZP55140L02

Brightness Asymmetrical



DxWxH(mm): 19.15x10.8x9.4  
FWHM : 55°x140°

- CREE --
- PHILIPS LUMILEDS --
- EDISON 1LA5
- NICHIA --



(Type II ,Short)

- OSRAM --
- SAMSUNG LED --
- LG Innotek --
- SEKUL P4

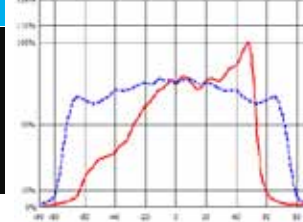
LL01LU-AGV80150L02

Brightness Asymmetrical



DxWxH(mm): 32x18.5x9.5  
FWHM : 80°x150°

- CREE XM-L
- PHILIPS LUMILEDS Luxeon M
- EDISON --
- NICHIA 383



(Type II ,Short)

- OSRAM --
- SAMSUNG LED --
- LG Innotek --
- SEKUL --

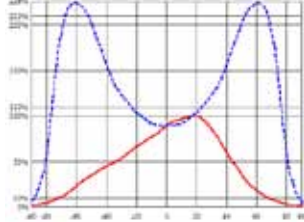
LL01SX-ADD60135L02

Brightness Illuminance Asymmetrical



DxWxH(mm): 25.7x16.3x11.4  
FWHM : 60°x135°

- CREE --
- PHILIPS LUMILEDS --
- EDISON --
- NICHIA --



(Type II ,Short)

- OSRAM --
- SAMSUNG LED --
- LG Innotek --
- SEKUL --

LL01LU-AIK45135L02

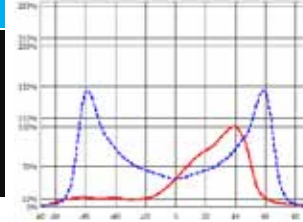
Illuminance Asymmetrical



Tape available

DxWxH(mm): 18x12.5x7.05  
FWHM : 45°x135°

- CREE XP-E(2)/ XP-G(2)
- PHILIPS LUMILEDS Rebel ES
- EDISON --
- NICHIA NCS19/ NVS19/ NVS19B



(Type II ,Short)

- OSRAM --
- SAMSUNG LED Ceramic 3535
- LG Innotek --
- SEKUL --



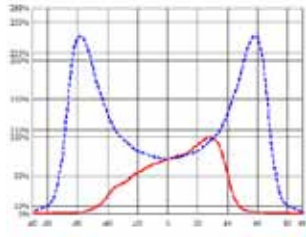
LL01LU-NI75140L02

Illuminance Asymmetrical



DxWxH(mm): 15.7x14x5.8  
FWHM : 75°x140°

- CREE XP-G2
- PHILIPS LUMILEDS Rebel
- EDISON --
- NICHIA --



(Type I ,Short)

- OSRAM --
- SAMSUNG LED Ceramic3535
- LG Innotek --
- SEOL --

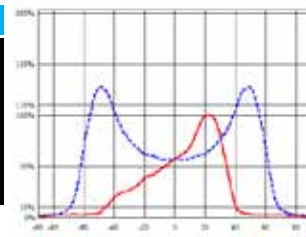
LL01SH-AU75135L02

Illuminance Symmetrical



DxWxH(mm): 24x13.2x9.6  
FWHM : 75°x135°

- CREE --
- PHILIPS LUMILEDS --
- EDISON 1LA5
- NICHIA --



(Type I ,Short)

- OSRAM --
- SAMSUNG LED --
- LG Innotek --
- SEOL P4

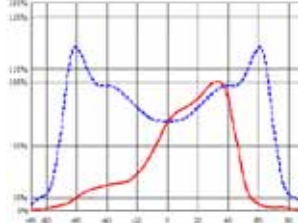
LL01LU-UQ70140L02

Brightness Asymmetrical  
Illuminance



DxWxH(mm): 18x11x6.6  
FWHM : 70°x140°

- CREE XP-G2/ XT-E
- PHILIPS LUMILEDS Rebel/ Rebel ES
- EDISON --
- NICHIA NVS19B



(Type I ,Short)

- OSRAM --
- SAMSUNG LED Ceramic3535
- LG Innotek --
- SEOL --

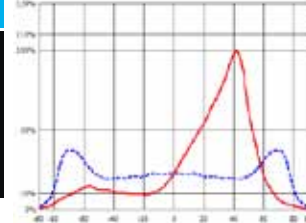
LL01ZZ-AGX45155L02

Brightness Asymmetrical



DxWxH(mm): 18x12.5x7  
FWHM : 45°x155°

- CREE XP-G2
- PHILIPS LUMILEDS Rebel/ Rebel ES
- EDISON --
- NICHIA NCS19/ NVS19



(Type III ,Short)

- OSRAM --
- SAMSUNG LED Ceramic 3535
- LG Innotek --
- SEOL --

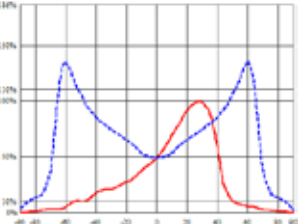
LL01OS-AU60140L02

Illuminance Asymmetrical



DxWxH(mm): 16x8.8x5.3  
FWHM : 60°x140°

- CREE XP-G2
- PHILIPS LUMILEDS Luxeon T
- EDISON --
- NICHIA NVS19B



(Type II ,Short)

- OSRAM Oslon SSL 80
- SAMSUNG LED Ceramic 3535
- LG Innotek --
- SEOL --

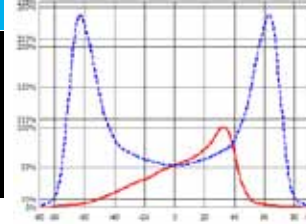
LL04LZ-NO85140L02

Illuminance Asymmetrical



DxWxH(mm): 160x25x9.55  
FWHM : 85°x140°

- CREE --
- PHILIPS LUMILEDS --
- EDISON 1LA5
- NICHIA --



(Type I ,Short)

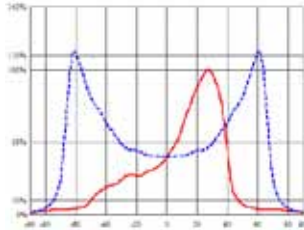
- OSRAM --
- SAMSUNG LED --
- LG Innotek --
- SEOL --

LL12ED-VT85160L02

Brightness Asymmetrical



DxWxH(mm): 158x50x9.4  
FWHM : 85°x160°



(Type III ,Short)

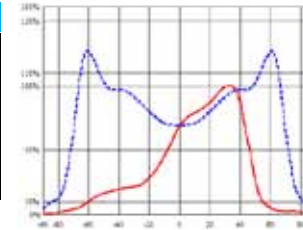
- |      |    |
|------|----|
| --   | -- |
| --   | -- |
| 1LA5 | -- |
| --   | -- |

LL14LU-ALY90130L19

Brightness Illuminance Asymmetrical



DxWxH(mm): 250x60x9.3  
FWHM : 90°x130°



(Type I ,Short)

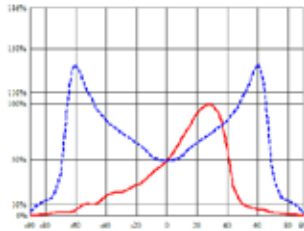
- |          |    |
|----------|----|
| --       | -- |
| Rebel ES | -- |
| --       | -- |
| --       | -- |

LL12OS-EL50130L02

Illuminance Asymmetrical



DxWxH(mm): 158.4x50.3x9.1  
FWHM : 50°x130°



(Type I ,Short)

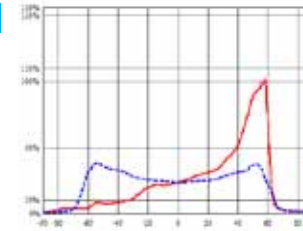
- |     |    |
|-----|----|
| MX6 | -- |
| --  | -- |
| --  | -- |
| --  | -- |

LL20CR-VK60140L02

Illuminance Asymmetrical



DxWxH(mm): 319.3x52.3x14.6  
FWHM : 60°x140°



(Type III ,Short)

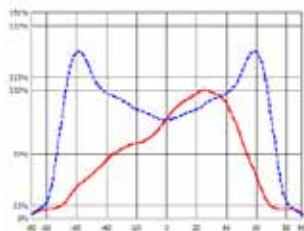
- |            |    |
|------------|----|
| XP-G/ XT-E | -- |
| --         | -- |
| --         | -- |
| --         | -- |

LL14CR-AOC65150L02

Brightness Illuminance Asymmetrical



DxWxH(mm): 250x60x9.9  
FWHM : 65°x150°

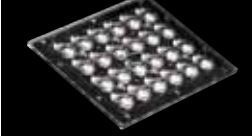


(Type II ,Short)

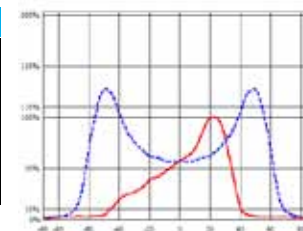
- |      |    |
|------|----|
| XT-E | -- |
| --   | -- |
| --   | -- |
| --   | -- |

LL24CR-AU75135L02

Illuminance Asymmetrical



Silicon gasket available  
MPCB available  
DxWxH(mm): 120x100x10.2  
FWHM : 75°x135°

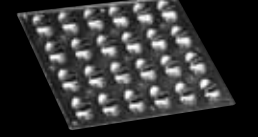


(Type I ,Very Short)

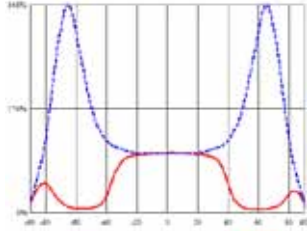
- |                         |                       |
|-------------------------|-----------------------|
| XB-D/ XM-L/ XP-G2/ XT-E | Oslon SSL 80 / Square |
| Rebel/ Rebel ES         | --                    |
| --                      | Ceramic 3535          |
| NCS19/ NVS19            | --                    |

**LL24ED-AU75135L02**

ILLUMINANCE Asymmetrical



DxWxH(mm): 135x112x9.6  
FWHM : 75°x135°

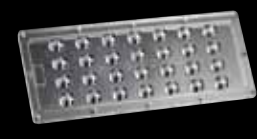


(Type I,Short)

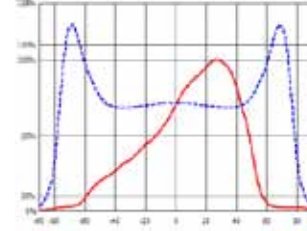
- |                            |                               |
|----------------------------|-------------------------------|
| <b>CREE</b> --             | <b>OSRAM</b> --               |
| <b>PHILIPS LUMILEDS</b> -- | <b>SAMSUNG LED</b> --         |
| <b>EDISON</b> 1LA5         | <b>LG Innotek</b> Ceramic3535 |
| <b>NICHIA</b> --           | <b>SEKUL</b> --               |

**LL28CR-UI65140L14**

ILLUMINANCE Asymmetrical



DxWxH(mm): 259.2x79.7x12.2  
FWHM : 65°x140°



(Type II,Short)

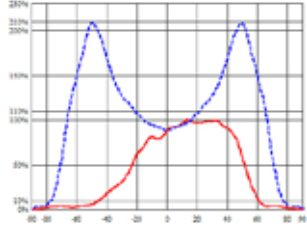
- |                                  |                                    |
|----------------------------------|------------------------------------|
| <b>CREE</b> XP-G2/ XT-E          | <b>OSRAM</b> Oslon SSL 80 / Square |
| <b>PHILIPS LUMILEDS</b> Rebel ES | <b>SAMSUNG LED</b> --              |
| <b>EDISON</b> --                 | <b>LG Innotek</b> --               |
| <b>NICHIA</b> 383                | <b>SEKUL</b> --                    |

**LL24LU-JT60120L02**

ILLUMINANCE Asymmetrical



DxWxH(mm): 126x110x10.5  
FWHM : 60°x120°

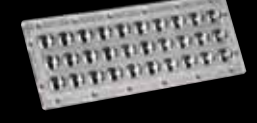


(Type II,Short)

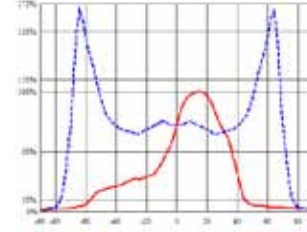
- |   |                       |
|---|-----------------------|
| <b>CREE</b> --                          | <b>OSRAM</b> --       |
| <b>PHILIPS LUMILEDS</b> Rebel/ Rebel ES | <b>SAMSUNG LED</b> -- |
| <b>EDISON</b> --                        | <b>LG Innotek</b> --  |
| <b>NICHIA</b> --                        | <b>SEKUL</b> --       |

**LL30CR-PT60140L02**

BRIGHTNESS ILLUMINANCE Asymmetrical



DxWxH(mm): 235x71x9.4  
FWHM : 60°x140°



(Type II,Short)

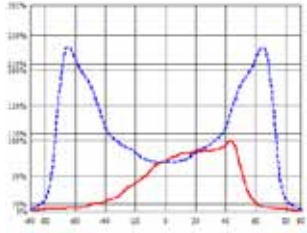
- |                                  |                                    |
|----------------------------------|------------------------------------|
| <b>CREE</b> XP-G2/ XT-E          | <b>OSRAM</b> Oslon SSL 80 / Square |
| <b>PHILIPS LUMILEDS</b> Rebel ES | <b>SAMSUNG LED</b> --              |
| <b>EDISON</b> --                 | <b>LG Innotek</b> Ceramic 3535     |
| <b>NICHIA</b> 383                | <b>SEKUL</b> --                    |

**LL24OS-JT110150L02**

ILLUMINANCE Asymmetrical



DxWxH(mm): 126x110x9  
FWHM : 110°x150°



(Type II,Short)

- |                            |                           |
|----------------------------|---------------------------|
| <b>CREE</b> --             | <b>OSRAM</b> Oslon SSL 80 |
| <b>PHILIPS LUMILEDS</b> -- | <b>SAMSUNG LED</b> --     |
| <b>EDISON</b> --           | <b>LG Innotek</b> --      |
| <b>NICHIA</b> --           | <b>SEKUL</b> --           |



LENS APPLICATION

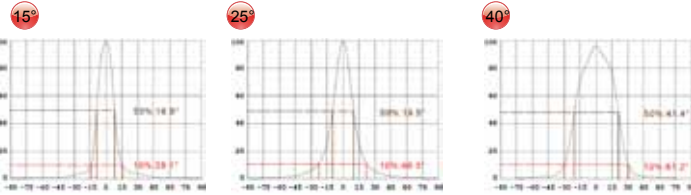
## Indoor LIGHTING

Multi LIGHTING

DM/DN Series

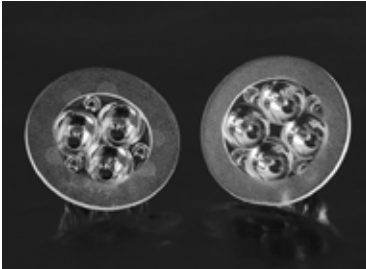


| Part Number    | Type   | DxH(mm)   | FWHM        |
|----------------|--------|-----------|-------------|
| LL03LU-DMxxL06 | 3 in 1 | 23.1x11   | 15° 25° 40° |
| LL04LU-DNxxL06 | 4 in 1 | 25.4x10.5 |             |

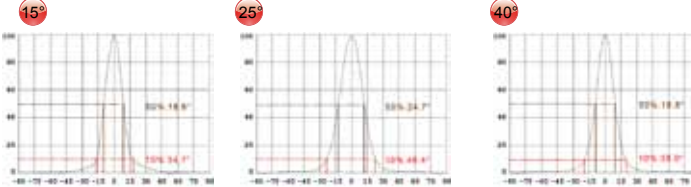


|                  |                |
|------------------|----------------|
| CREE             | XPE/XPG        |
| EDISON           | Federal        |
| PHILIPS LUMILEDS | Rebel/Luxeon A |
| NICHIA           | NVS19A         |
| OSRAM            | Oslon 80       |
| SAMSUNG LED      | --             |
| SEOL             | Z5             |

DO Series

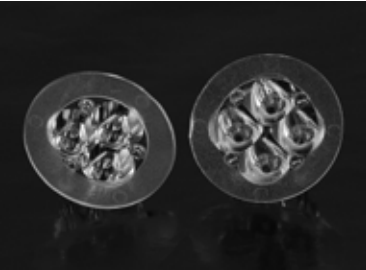


| Part Number    | Type   | DxH(mm) | FWHM        |
|----------------|--------|---------|-------------|
| LLxxLU-DOxxL06 | 3 in 1 | 35x10.6 | 15° 25° 40° |
|                | 4 in 1 | 35x10.4 |             |

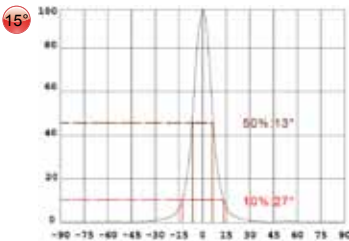


|                  |                 |
|------------------|-----------------|
| CREE             | XPC/XPE/XPG     |
| EDISON           | Federal         |
| PHILIPS LUMILEDS | Rebel/Luxeon A  |
| NICHIA           | NVS19A          |
| OSRAM            | Oslon 80/Square |
| SAMSUNG LED      | --              |
| SEOL             | Z5              |

QQ Series



| Part Number    | Type   | DxH(mm) | FWHM |
|----------------|--------|---------|------|
| LLxxNI-QQxxL06 | 3 in 1 | 35x10.5 | 15°  |
|                | 4 in 1 | 35x10.5 |      |

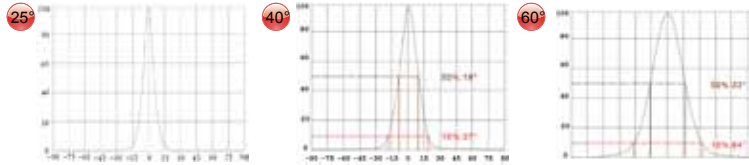


|                  |                    |
|------------------|--------------------|
| CREE             | XPE/XPG            |
| EDISON           | Federal 3045       |
| PHILIPS LUMILEDS | Rebel/Rebel Es     |
| NICHIA           | NVS19/NCS19/NVS19B |
| OSRAM            | Oslon              |
| SAMSUNG LED      | --                 |
| SEOL             | Z5                 |

RX Series

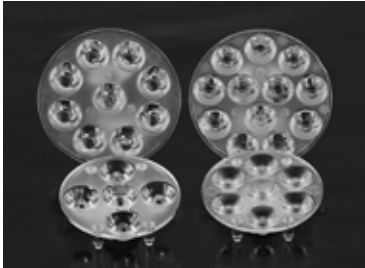


| Part Number    | Type  | DxH(mm) | FWHM        |
|----------------|-------|---------|-------------|
| LLxxCR-RXxxL06 | 3in1  | 35x9.6  | 25° 40° 60° |
|                | 4in1  | 35x9.7  |             |
|                | 6in1  | 50x9.65 |             |
|                | 7in1  | 50x10.3 | 40° 60°     |
|                | 9in1  | 70x10.3 |             |
|                | 12in1 | 70x10.3 |             |

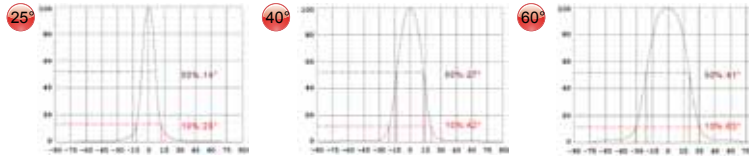


- XTE/XBD/XPE/XPG/XPG2
- Federal 3045/3535
- Rebel/Rebel Es/Luxeon A
- NCS19/NVS19B
- Oslon 80
- Ceramic
- 

FR Series



| Part Number    | Type  | DxH(mm)            | FWHM        |
|----------------|-------|--------------------|-------------|
| LLxxCR-FRxxL06 | 5in1  | 35.8x6.5           | 25° 40° 60° |
|                | 7in1  | 35.8x6.5           |             |
|                | 9in1  | 45x7 / 45X6.8(60°) |             |
|                | 12in1 | 45x7 / 45X6.8(60°) |             |

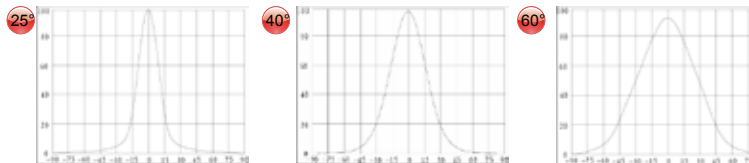


- XPE
- Federal
- 
- 
- 
- Ceramic
- 

BFR Series

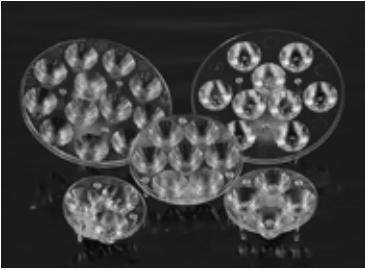


| Part Number     | Type | DxH(mm)  | FWHM        |
|-----------------|------|----------|-------------|
| LLxxCR-BFRxxL06 | 5in1 | 35.8x6.3 | 25° 40° 60° |
|                 | 7in1 |          |             |

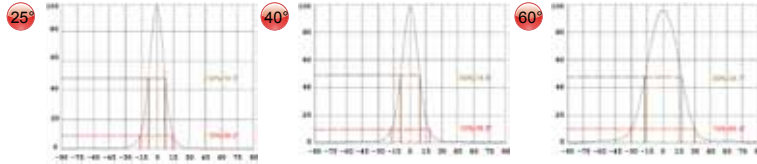


- XT-E
- 
- 
- NVS19B / 757A
- 
- 
-

ED-GK Series

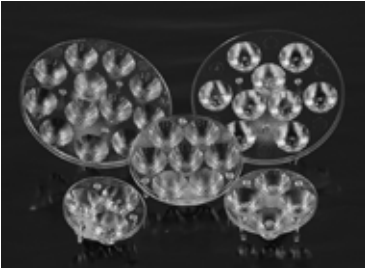


| Part Number    | Type  | DxH(mm)                | FWHM        |
|----------------|-------|------------------------|-------------|
| LLxxED-GKxxL06 | 3in1  | 33.2x10.2              | 25° 40° 60° |
|                | 4in1  | 37x10.3                |             |
|                | 7in1  | 47x10.5 / 47x10.2(25°) |             |
|                | 9in1  | 67x10.8 / 67x10.2(25°) |             |
|                | 12in1 | 67x10.8 / 67x10.2(25°) |             |

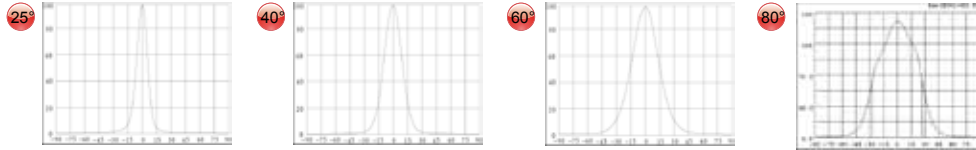


|                         |                    |
|-------------------------|--------------------|
| <b>CREE</b>             | XPE/XPG            |
| <b>EDISON</b>           | Federal 3045       |
| <b>PHILIPS LUMILEDS</b> | Rebel/Rebel Es     |
| <b>NICHIA</b>           | NVS19/NCS19/NVS19B |
| <b>OSRAM</b>            | --                 |
| <b>SAMSUNG LED</b>      | --                 |
| <b>SEOUL</b>            | --                 |

OS-GK Series

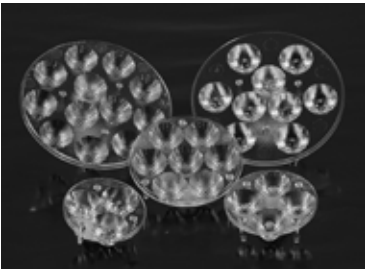


| Part Number    | Type  | DxH(mm)  | FWHM            |
|----------------|-------|----------|-----------------|
| LLxxOS-GKxxL06 | 3in1  | 33.2x9.8 | 25° 40° 60° 80° |
|                | 4in1  | 37x9.8   |                 |
|                | 7in1  | 47x9.8   |                 |
|                | 9in1  | 67x9.8   |                 |
|                | 12in1 | 67x9.8   |                 |

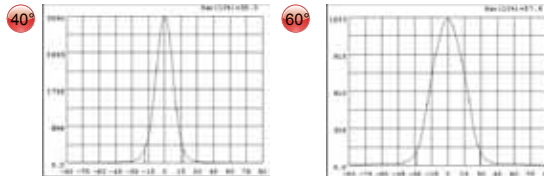


|                         |                 |
|-------------------------|-----------------|
| <b>CREE</b>             | --              |
| <b>EDISON</b>           | --              |
| <b>PHILIPS LUMILEDS</b> | LuxeonT         |
| <b>NICHIA</b>           | NVS19/NCS19     |
| <b>OSRAM</b>            | Oslon 80/Square |

UY Series



| Part Number    | Type  | DxH(mm)   | FWHM    |
|----------------|-------|-----------|---------|
| LLxxED-UYxxL06 | 3in1  | 33.2x10.3 | 40° 60° |
|                | 4in1  | 37x10.3   |         |
|                | 7in1  | 47x10.3   |         |
|                | 9in1  | 67x10.3   |         |
|                | 12in1 | 67x10.3   |         |



|                         |                    |
|-------------------------|--------------------|
| <b>CREE</b>             | XPE/XPG            |
| <b>EDISON</b>           | Federal 3045       |
| <b>PHILIPS LUMILEDS</b> | Rebel/Rebel Es     |
| <b>NICHIA</b>           | NVS19/NCS19/NVS19B |
| <b>OSRAM</b>            | --                 |
| <b>SAMSUNG LED</b>      | --                 |
| <b>SEOUL</b>            | --                 |



LENS APPLICATION

## INDOOR LIGHTING

Flood Lighting

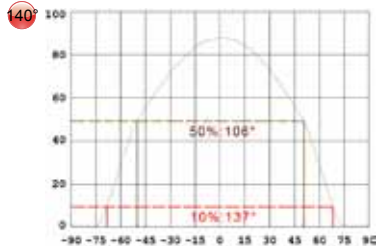


LL03ED-CO 140L



DxH(mm):50x2.9  
Full Angle: 140°

EDISON 1LA5 SEDUL P4

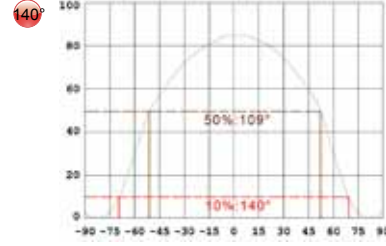


LL03ED-DA 140L



DxH(mm):50x11.2  
Full Angle: 140°

EDISON 1LA5 SEDUL P4



LL06ED-CO 140L-Mx



DxH(mm):73.3x3.2 / 76x16.2(Holder)  
Full Angle: 140°

EDISON 1LA5 SEDUL P4

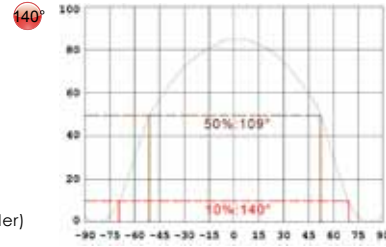


LL06ED-DA 140L-Mx



DxH(mm):73.2x15.9 / 76x28.9(Holder)  
Full Angle: 140°

EDISON 1LA5 SEDUL P4



LL09ED-CO 140L-Mx



DxH(mm):90.8x1.5 / 93.9x20.1(Holder)  
Full Angle: 140°

EDISON 1LA5 SEDUL P4

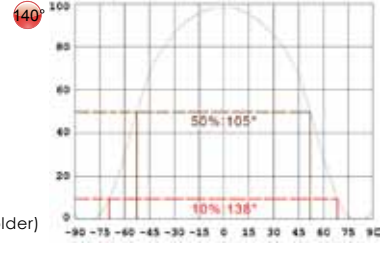


LL09ED-DA 140L-Mx



DxH(mm):90.8x19.5 / 93.9x35.6(Holder)  
Full Angle: 140°

EDISON 1LA5 SEDUL P4

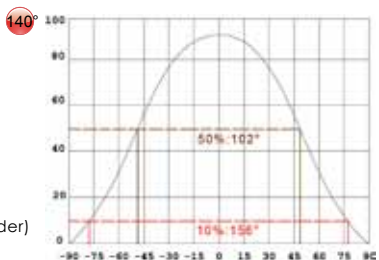


LL12ED-CO 140L-Mx



DxH(mm):90.8x1.5 / 93.9x20.1(Holder)  
Full Angle: 140°

EDISON 1LA5 SEDUL P4

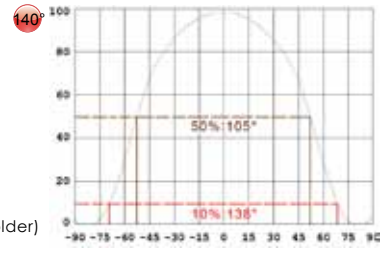


LL12ED-DA 140L-Mx



DxH(mm):90.8x19.5 / 93.9x35.6(Holder)  
Full Angle: 140°

EDISON 1LA5 SEDUL P4





LENS APPLICATION

# OUTDOOR LIGHTING

WALLWASHER LIGHTING

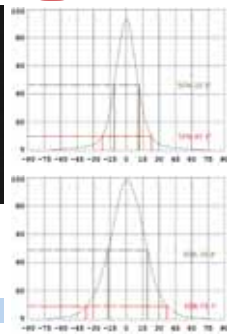
LL01CR-DF3065L-Mx

30°x65°



DxH(mm):  
11.8x6.5 / 13.5x7.1(Holder)  
Full Angle:  
30x65°

|                  |         |
|------------------|---------|
| CREE             | XPE/XPG |
| CITIZEN          | --      |
| EDISON           | --      |
| PHILIPS LUMILEDS | Rebel   |
| NICHIA           | --      |
| OSRAM            | --      |
| SAMSUNG LED      | --      |
| SEOL             | --      |



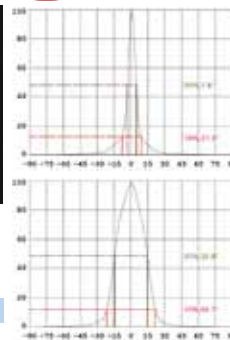
LL01CR-AO2545L-Mx

25°x45°



DxH(mm):  
19.4x13.5 / 23.5x15.9(Holder)  
Full Angle:  
25x45°

|                  |      |
|------------------|------|
| CREE             | XRE  |
| CITIZEN          | --   |
| EDISON           | 1LA5 |
| PHILIPS LUMILEDS | --   |
| NICHIA           | --   |
| OSRAM            | --   |
| SAMSUNG LED      | --   |
| SEOL             | --   |



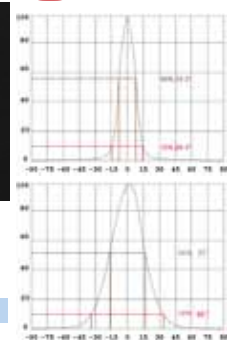
LL01ZZ-FL3065L06-Mx

30°x65°



DxH(mm):  
22.2x10.6 / 24.3x11.5(Holder)  
Full Angle:  
30x65°

|                  |                |
|------------------|----------------|
| CREE             | XPE2/XPG2/XML2 |
| CITIZEN          | --             |
| EDISON           | --             |
| PHILIPS LUMILEDS | --             |
| NICHIA           | NVS19B         |
| OSRAM            | Oslon Square   |
| SAMSUNG LED      | --             |
| SEOL             | --             |

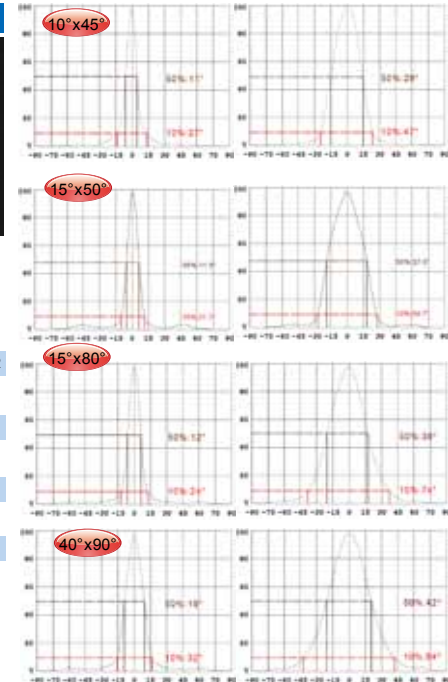


LL01CR-BRxxL-Mx



DxH(mm):  
19.6x12.5 / 21.5x13.9(Holder)  
Full Angle:  
10x45° 15x50° 15x80° 40x90°

|                  |                       |
|------------------|-----------------------|
| CREE             | XPE/XPG/XRE/XML2/XPG2 |
| CITIZEN          | --                    |
| EDISON           | Federal/ET-3535       |
| PHILIPS LUMILEDS | Rebel                 |
| NICHIA           | NCS19/NVS19B          |
| OSRAM            | Oslon/Square          |
| SAMSUNG LED      | Ceramic3535           |
| SEOL             | A4                    |

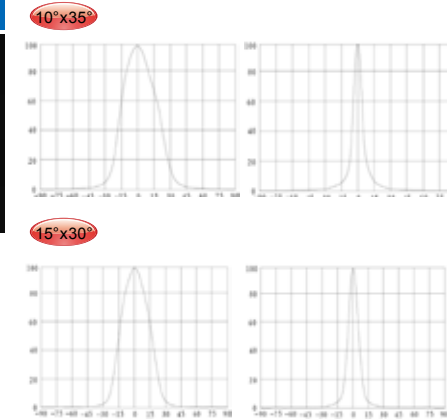


LL01LU-AFCxxL06



DxH(mm):  
19.4x17.8  
FWHM:  
10° 15° 25° 30° 10x35° 15x30°

|                  |                        |
|------------------|------------------------|
| CREE             | XPE/XPE 2/XBD          |
| CITIZEN          | --                     |
| EDISON           | Federal/ET-3535        |
| PHILIPS LUMILEDS | Rebel/Rebel Es/Luxeont |
| NICHIA           | --                     |
| OSRAM            | Oslon 80/Square        |
| SAMSUNG LED      | --                     |
| SEOL             | --                     |



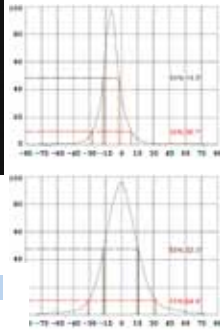
LL01LU-AA2065L-Mx

20°x65°



DxH(mm):  
19.7x13.8 / 21x16.25(Holder)  
Full Angle:  
20x65°

- 
- 
- 1LA5
- 
- 
- 
- 
- A4



LL01ZZ-EX3065L-Mx

30°x65°



DxH(mm):  
34.6x18.7 / 22.4x9.8(Holder)  
Full Angle:  
30x65°

- XPE/XPG
- 
- 1LA5/Federal
- Rebel/Rebel Es
- NCS19/183A/NVS19
- Oslon
- Ceramic
- P4/Z1



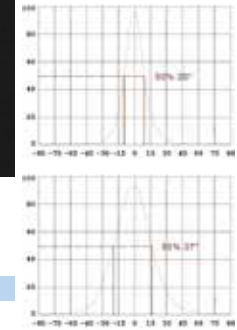
LL01NI-DZ2040L-Mx

20°x40°



DxH(mm):  
22x13.9 / 25x18.5(Holder)  
Full Angle:  
20x40°

- 
- 
- 
- 
- 183A
- 
- 
- A4/P4



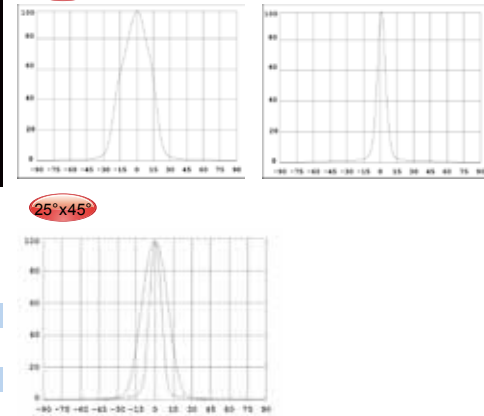
LL01CR-CNExxL06-Mx

10°x45°



DxH(mm):  
19.4x15 / 23.5x15.8(Holder)  
Full Angle:  
10x45° 25x45°

- XP-E2/XP-G2/XT-E
- 
- Federal 3535
- Rebel/Rebel ES
- 
- 
- 
- 

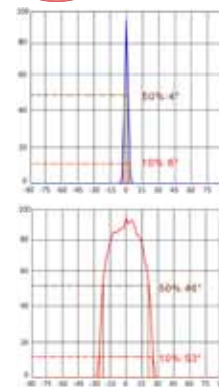


LL01LU-ABW1050L02

10°x50°



DxWxH(mm):  
34x29x3  
FWHM :  
3x50°  
For all single chip LED.





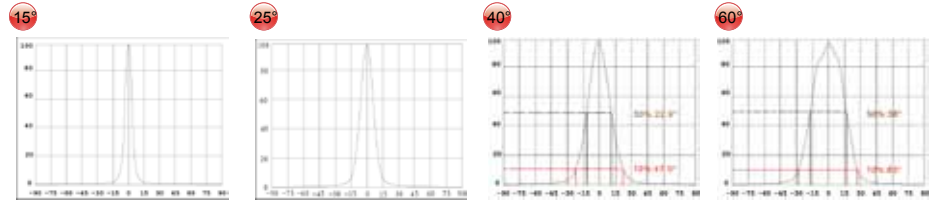
LENS APPLICATION  
**STAGE LIGHTING**

LL01OS-MQxxL06-M2



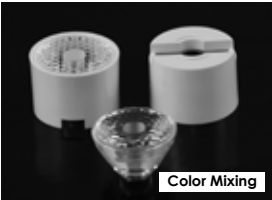
Full Angle: 15° 25° 40° 60°

- 
- 
- 
- 
- Oslon 80/Square
- 



DxH(mm): 21.05x14.75

LL01ED-CVxxL06-M2



FWHM: 15° 25° 45°

- 
- 1LA5
- 
- 
- 
- 



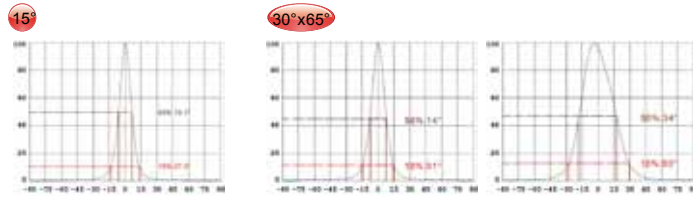
DxH(mm): 21.2x15.1

LL01ED-ALxxL06-M2



FWHM: 15°  
Full Angle: 30x65°

- 
- 1LA5
- 
- 
- 
- 



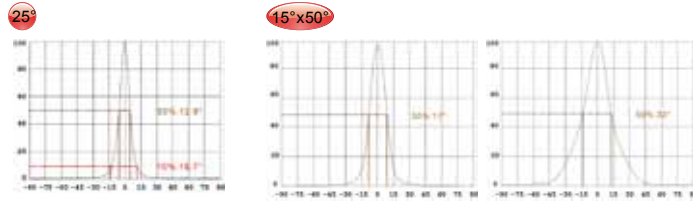
DxH(mm): 21.3x14

LL01ED-ANxxL-M2



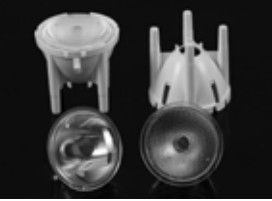
Full Angle: 25° 15x50°

- 
- 1LA5
- 
- 
- 
- 



DxH(mm): 25x13.3

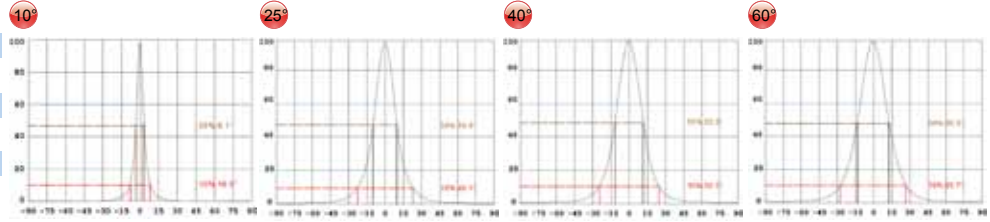
LL01ED-AJxxL-M2



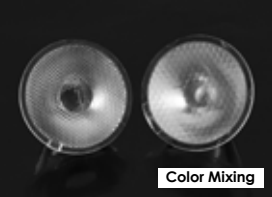
DxH(mm): 31x22.2

Full Angle: 10° 25° 40° 60°

- CREE** MCE color/XML color
- EDISON** Federal 5050 RGBW
- PHILIPS LUMILEDS** --
- NICHIA** --
- OSRAM** Ostar
- SECURE** --



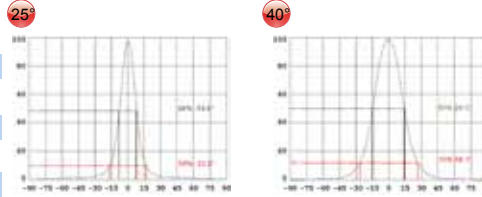
LL01ED-AKxxL06



DxH(mm): 34.4x18.8

Full Angle: 25° 40°

- CREE** MCE color/XML color
- EDISON** Federal color
- PHILIPS LUMILEDS** --
- NICHIA** --
- OSRAM** Ostar SMDcolor
- SECURE** --



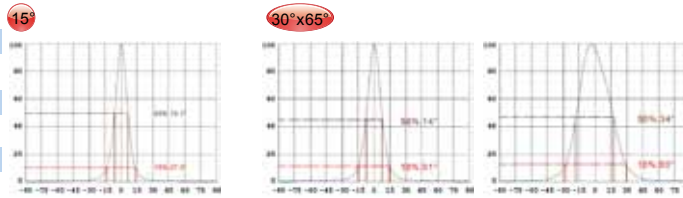
LL01ED-BCQxxL06-M1



DxH(mm): 38.1x20.2

FWHM: 15°  
Full Angle: 30x65°

- CREE** XML color
- EDISON** Federal 5050 color
- PHILIPS LUMILEDS** --
- NICHIA** --
- OSRAM** Ostar SMDcolor
- SECURE** --



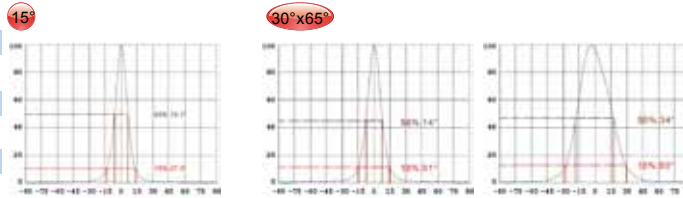
LL01CR-BCQxxL06-M1



DxH(mm): 38.1x20.9

FWHM: 15°  
Full Angle: 30x65°

- CREE** MCE color
- EDISON** --
- PHILIPS LUMILEDS** --
- NICHIA** --
- OSRAM** --
- SECURE** --

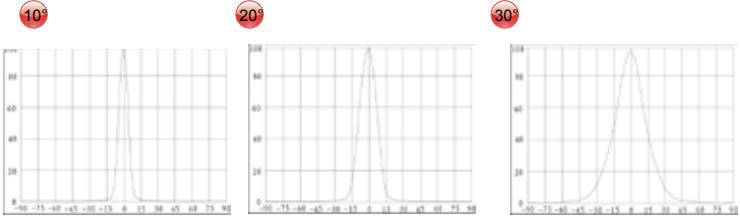


LL01CR-ANWxxL06



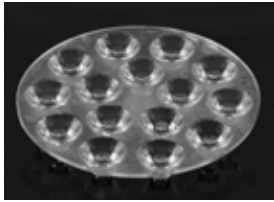
FWHM: 10° 20° 30°

- CREE** MCE color
- EDISON** --
- PHILIPS LUMILEDS** --
- NICHIA** --
- OSRAM** Ostar SMDcolor
- SEOLUX** --



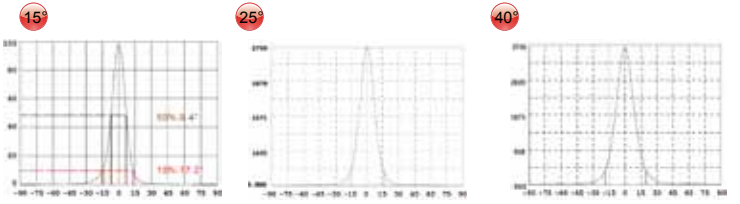
DxH(mm): 45x26.3

LL15ED-BHxxL



Full Angle: 15° 25° 40°

- CREE** XML
- EDISON** 1LA5
- PHILIPS LUMILEDS** --
- NICHIA** --
- OSRAM** --
- SEOLUX** --



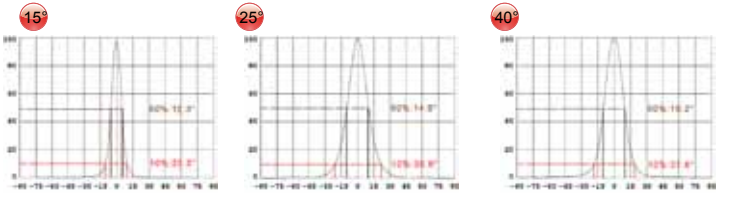
DxH(mm): 95x11.1

LL18ED-BIxxL



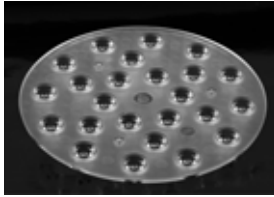
Full Angle: 15° 25° 40°

- CREE** XPE
- EDISON** 1LA5
- PHILIPS LUMILEDS** --
- NICHIA** --
- OSRAM** --
- SEOLUX** --



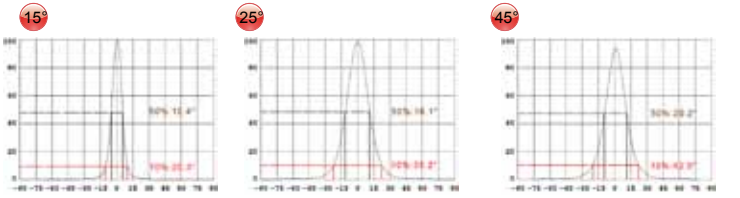
DxH(mm): 110x13.1

LL24ED-ABxxL



Full Angle: 15° 25° 45°

- CREE** XPE
- EDISON** 1LA5
- PHILIPS LUMILEDS** --
- NICHIA** --
- OSRAM** --
- SEOLUX** --



DxH(mm): 174.5x12.5



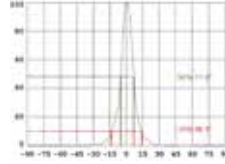
LL36ED-AAxxL



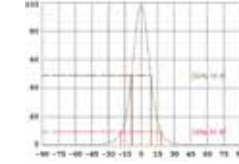
Full Angle: 15° 25° 45°

|                         |      |
|-------------------------|------|
| <b>CREE</b>             | XPE  |
| <b>EDISON</b>           | 1LA5 |
| <b>PHILIPS LUMILEDS</b> | --   |
| <b>NICHIA</b>           | --   |
| <b>OSRAM</b>            | --   |
| <b>SEoul</b>            | --   |

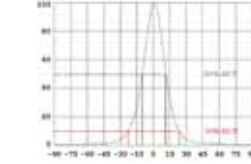
15°



25°

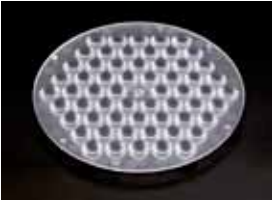


45°



DxH(mm): 140x12.7

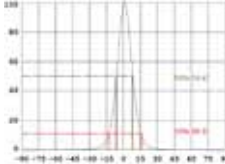
LL60ED-BOxxL



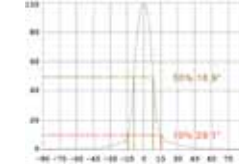
Full Angle: 25° 45°

|                         |      |
|-------------------------|------|
| <b>CREE</b>             | XPE  |
| <b>EDISON</b>           | 1LA5 |
| <b>PHILIPS LUMILEDS</b> | --   |
| <b>NICHIA</b>           | --   |
| <b>OSRAM</b>            | --   |
| <b>SEoul</b>            | --   |

25°



45°



DxH(mm): 180x13.1

# Lens list by LED



**CREE** 



**CITIZEN**  
Micro HumanTech



 **NICHIA**



**OSRAM**  
Opto Semiconductors



 **EDISON**



**PHILIPS**  
**LUMILEDS**



 **SEOUL**



 **SAMSUNG LED**



**SHARP**



 **LG Innotek**

| Type           | Part Number         | DxH(mm)      | Full Angle                       | FWHM    | Holder |
|----------------|---------------------|--------------|----------------------------------|---------|--------|
| Single         | LL01CR-BDFxxL06-M2  | 13.5 x 7.35  | 40° 60°                          |         | V      |
|                | LL01CR-BEXxxL06-M2  | 22.4 x 9.7   | 25° 40° 60°                      |         | V      |
|                | LL01CR-BNExxxL06-M2 | 23.5x1 5.8   | 25° 40° 60° 35x70°               |         | V      |
|                | LL01CR-BRxxL06      | 19.65 x 12.5 | 40°                              |         |        |
|                | LL01CR-DFxxL06      | 11.8 x 6.65  | 80° 100° 30x65°                  |         |        |
|                | LL01CR-DGxxL06      | 28.8 x 16.75 | 20° 30° 40° 50° 60°              |         |        |
|                | LL01CR-HQxxL06      | 14.8 x 9.6   | 30° 40° 60° 80°                  |         |        |
|                | LL01CR-NExxL06      | 19.4 x 15    | 25° 40° 60° 80° 10x45°<br>25x45° |         |        |
|                | LL01CR-OTxxL06      | 15 x 9.7     | 80°                              |         |        |
|                | LL01CR-WIxxL02      | 28.8 x 17.4  |                                  | 25° 40° |        |
|                | LL01ED-AJxxL06      | 28.9 x 19.7  | 25° 40° 60°                      |         |        |
|                | LL01ED-AKxxL06      | 34.4 x 18.8  | 40°                              |         |        |
|                | LL01LU-AFCxxL06     | 19.4 x 11.8  | 15x60° 20x50°                    |         |        |
|                | LL01XB-AAFxxL02-M2  | 13.5 x 7.35  |                                  | 60°     | V      |
|                | LL01NI-ANExxL02     | 19.4 x 14.94 |                                  | 20° 30° |        |
|                | LL01NI-GRxxL06      | 19.45 x 13.5 | 40° 60° 80°                      |         |        |
|                | LL01OS-HGxxL06      | 10 x 6       | 60°                              |         |        |
|                | LL01OS-MQxxL06      | 19.45 x 13.7 | 25° 40° 60°                      |         |        |
|                | LL01ZZ-AFLxxL02     | 22.2 x 10.4  |                                  | 35° 50° |        |
|                | LL01CR-OSxxL06-M2   | 22.4x9.13    | 40° 30x65°                       |         | V      |
| LL01ZZ-FLxxL06 | 22.2 x 10.6         | 25° 40° 60°  |                                  |         |        |
| 3 in 1         | LL03CR-AZxxL06      | 50 x 14.5    | 25° 45°                          |         |        |
|                | LL03CR-BDOxxL06     | 35 x 10.8    |                                  | 15° 25° |        |
|                | LL03CR-RXxxL06      | 35 x 9.6     | 40° 60°                          |         |        |
|                | LL03ED-UYxxL06      | 33.2 x 10.3  | 40°                              |         |        |
|                | LL03LU-DMxxL06      | 23.1 x 11    |                                  | 25° 40° |        |
|                | LL03LU-DOxxL06      | 35 x 10.6    |                                  | 25° 40° |        |
|                | LL03OS-GKxxL06      | 33.2 x 9.8   | 25° 40° 60°                      |         |        |

| Type            | Part Number        | DxH(mm)            | Full Angle  | FWHM                 | Holder |
|-----------------|--------------------|--------------------|-------------|----------------------|--------|
| 4 in 1          | LL04CR-RXxxL06     | 35 x 9.7           | 25° 40° 60° |                      |        |
|                 | LL04ED-UYxxL06     | 37 x 10.3          | 40°         |                      |        |
|                 | LL04LU-DNxxL06     | 25.4 x 10.5        |             | 25° 40°              |        |
|                 | LL04LU-DOxxL06     | 35 x 10.4          |             | 25° 40°              |        |
|                 | LL04LU-GPxxL06     | 22.2 x 6.8         | 45°         |                      |        |
|                 | LL04OS-GKxxL06     | 37 x 9.8           | 40° 60°     |                      |        |
| 5 in 1          | LL05CR-BFRxxL06    | 35.8 x 6.3         |             | 40°                  |        |
| 6 in 1          | LL06CR-RXxxL06     | 50 x 9.65          | 40° 60°     |                      |        |
|                 | LL06CR-AXLxxL06-M2 | 76 x 13            |             | 25°                  | V      |
| 7 in 1          | LL07CR-BFRxxL06    | 35.8 x 6.3         |             | 40°                  |        |
|                 | LL07CR-RXxxL06     | 50 x 10.3          | 40° 60°     |                      |        |
|                 | LL07ED-UYxxL06     | 47 x 10.3          | 40°         |                      |        |
|                 | LL07OS-GKxxL06     | 47 x 9.8           | 40° 60°     |                      |        |
|                 | LL07ZZ-FUxxL06     | 50.35 x 10.7       |             | 25°                  |        |
| 9 in 1          | LL07ZZ-FVxxL02     | 39.2 x 10.8        |             | 30°                  |        |
|                 | LL09CR-RXxxL06     | 70 x 10.3          | 40° 60°     |                      |        |
|                 | LL09ED-UYxxL06     | 67 x 10.3          | 40°         |                      |        |
|                 | LL09OS-GKxxL06     | 67 x 9.8           | 40° 60°     |                      |        |
| 12 in 1         | LL09ED-ATxxL06     | 90.6 x 17.5        | 40°         |                      |        |
|                 | LL12CR-RXxxL06     | 70 x 10.3          | 40° 60°     |                      |        |
|                 | LL12ED-UYxxL06     | 67 x 10.3          | 40°         |                      |        |
| 18 in 1         | LL12OS-GKxxL06     | 67 x 9.8           | 40° 60°     |                      |        |
|                 | LL18ED-BlxxL06     | 110 x 13.1         | 40°         |                      |        |
| Street Lighting | LL01CR-APM80150L02 | 18 x 12.5 x 6.95   |             | 80°x150° (Asymmetry) |        |
|                 | LL01CR-AU85135L02  | 18 x 10.2 x 6.1    |             | 85°x135° (Asymmetry) |        |
|                 | LL01CR-BAJ85135L02 | 18 x 12.5 x 6.1    |             | 85°x135° (Asymmetry) |        |
|                 | LL01CR-FT60135L02  | 18 x 9.3 x 5.9     |             | 60°x135° (Symmetry)  |        |
|                 | LL01CR-OG85150L02  | 18 x 8.95 x 6.2    |             | 85°x150° (Symmetry)  |        |
|                 | LL01CR-OW70130L02  | 17.4 x 12.75 x 7.2 |             | 70°x130° (Asymmetry) |        |
|                 | LL01CR-PB70140L02  | 22.4 x 11.4 x 6.9  |             | 70°x140° (Asymmetry) |        |
|                 | LL01LU-UQ70140L02  | 18 x 11 x 6.6      |             | 70°x140° (Asymmetry) |        |
|                 | LL24CR-AU75135L02  | 120 x 100 x 10.2   |             | 75°x135° (Asymmetry) |        |



■ XPE/ XPE2

| Type              | Part Number        | DxH(mm)                | Full Angle                               | FWHM                             | Holder |
|-------------------|--------------------|------------------------|--|----------------------------------|--------|
| Single            | LL01CR-ABGxxL02    | 34 x 15.7              |  | 24°                              |        |
|                   | LL01CR-ACZxxL02    | 27.8 x 10.2            |  | 24° 38°                          |        |
|                   | LL01CR-CRxxL06-M2  | 13.55x7.25             | 40° 60°                                  |                                  | V      |
|                   | LL01CR-BEXxxL06    | 20.9 x 9.2             | 40° 60°                                  |                                  |        |
|                   | LL01CR-BNExxL06    | 19.4 x 14.6            | 40° 35x70°                               |                                  |        |
|                   | LL01CR-BRxxL06     | 19.65x12.5             | 40° 10x45° 15x50° 15x80°<br>40x90°       |                                  |        |
|                   | LL01CR-DFxxL02-M2  | 13.5 x 7.35            | 25° 40° 80° 100° 30x65°                  |                                  | V      |
|                   | LL01XP-DGxxL06-M2  | 32.8x18                | 20° 30° 40° 50° 60°                      |                                  | V      |
|                   | LL01CR-HQxxL06-M2  | 16 x 10.3              | 15° 25° 30° 40° 60° 80°<br>25x45°        |                                  | V      |
|                   | LL01CR-NExxL06-M2  | 23.5 x 15.8            | 15° 17° 25° 40° 60° 80°<br>10x45° 25x45° |                                  | V      |
|                   | LL01CR-OTxxL06-M2  | 16.6x 10.45            | 25° 40° 60° 80°                          |                                  | V      |
|                   | LL01CR-SQxxL06     | 19.4 x 12.9            | 40° 60°                                  |                                  |        |
|                   | LL01CR-WlxxL02     | 28.8 x 16.7            |  | 15° 25° 40°                      |        |
|                   | LL01CR-YJxxL02     | 19.4 x 12.6            | 40° 60°                                  |                                  |        |
|                   | LL01ED-ACZxxL02    | 35 x 10.7              |  | 24° 38°                          |        |
|                   | LL01ED-AJxxL06     | 28.9 x 19.7            | 25° 40° 60°                              |                                  |        |
|                   | LL01ED-ALxxL06     | 19.65 x 11.4           | 15° 30x65°                               |                                  |        |
|                   | LL01ED-ANxxL06     | 22.7 x 9.6             | 15°x50°                                  |                                  |        |
|                   | LL01ED-CTxxL06     | 31 x 11.2              | 38° 80°                                  |                                  |        |
|                   | LL01CR-AFCxxL06-M2 | 21.3 x 12.4            |  | 10° 15° 25° 30°<br>10x35° 15x30° | V      |
|                   | LL01CR-AAFxxL02-M2 | 13.5 x 7.35            |  | 25°                              | V      |
|                   | LL01NI-ANExxL02-M2 | 23.5 x 15.8            |  | 10° 20° 30°                      | V      |
|                   | LL01NI-GRxxL06     | 19.45 x 13.5           | 25° 40° 60° 80°                          |                                  |        |
|                   | LL01OS-AXxxL02     | 20 x 11.5              | 20° 40° 60°                              |                                  |        |
|                   | LL01OS-MQxxL06     | 19.45 x 13.7           | 25° 40° 60°                              |                                  |        |
|                   | LL01ZZ-EXxxL06-M2  | 22.4 x 9.7             | 10° 25° 40° 60° 30x65°                   |                                  | V      |
| LL01XP-FLxxL06-M2 | 24.3 x 11.5        | 10° 25° 40° 60° 30x65° |  | V                                |        |
| LL01LU-AAxxL06    | 19.7 x 13.8        | 20°x65°                |  |                                  |        |
| LL01LU-LHxxL06    | 21 x 9.15          | 15°                    |  |                                  |        |
| LL01ZZ-AHAXxxL06  | 50 x 25.4          |                        | 5°                                       |                                  |        |

| Type           | Part Number        | DxH(mm)         | Full Angle  | FWHM                   | Holder  |  |
|----------------|--------------------|-----------------|-------------|------------------------|---------|--|
| Single         | LL01CR-XSxxL06     | 22.2x10.6       | 40°         |                        |         |  |
|                | LL01ED-AKxxL06     | 34.4x18.8       | 40°         |                        |         |  |
|                | LL01OS-BWxxL06     | 37.2x15.35      | 30°         |                        |         |  |
|                | LL01OS-BYxxL06     | 37.2x15.35      | 30°         |                        |         |  |
|                | LL01ED-FMxxL06     | 19.9x10.55      | 38°         |                        |         |  |
|                | LL01OS-CBxxL06     | 25.6x10         |             | 15°                    |         |  |
|                | LL01CR-AVC30L      | 28.8 x 15.95    |             | 30°                    | V       |  |
|                | LL01CR-ADI10L06    | 20 x 18.5       |             | 10°                    |         |  |
|                | LL01OS-BFVxxL06    | 20.8 x 12.35    |             | 15° 25° 30°<br>10°x40° |         |  |
|                | LL01CR-BLU03L06    | 35 x 20         |             | 3°                     |         |  |
|                | 3 in 1             | LL03CR-AZxxL06  | 50 x 14.5   | 25° 45° 60°            |         |  |
|                |                    | LL03CR-RXxxL06  | 35 x 9.6    | 25° 40° 60°            |         |  |
|                |                    | LL03ED-AZxxL06  | 50.5 x 13   | 45°                    |         |  |
|                |                    | LL03ED-UYxxL06  | 33.2 x 10.3 | 40°                    |         |  |
| LL03LU-DMxxL06 |                    | 23.1 x 11       |             | 15° 25° 40°            |         |  |
| LL03LU-DOxxL06 |                    | 35 x 10.6       |             | 15° 25° 40°            |         |  |
| LL03OS-GKxxL06 |                    | 33.2 x 9.8      | 25° 40° 60° |                        |         |  |
| 4 in 1         |                    | LL04CR-ABDxxL06 | 22 x 6.7    |                        | 24° 36° |  |
|                |                    | LL04CR-GPxxL06  | 22.2 x 6.7  | 25° 38° 45°            |         |  |
|                |                    | LL04CR-RXxxL06  | 35 x 9.7    | 25° 40° 60°            |         |  |
|                | LL04ED-UYxxL06     | 37 x 10.3       | 40°         |                        |         |  |
|                | LL04LU-DNxxL06     | 25.4 x 10.5     |             | 15° 25° 40°            |         |  |
|                | LL04LU-DOxxL06     | 35 x 10.4       |             | 15° 25° 40°            |         |  |
|                | LL04LU-GPxxL06     | 22.2 x 6.8      | 45°         |                        |         |  |
|                | LL04ED-EXxxL06     | 25.4 x 10.4     | 60°         |                        |         |  |
| 5 in 1         | LL04ZZ-EXxxL06     | 25.4 x 10.4     | 30°         |                        |         |  |
|                | LL05CR-FRxxL06     | 35.8 x 6.5      | 25° 40° 60° |                        |         |  |
| 6 in 1         | LL06CR-AXNxxL06-M2 | 76 x 13         |             | 25°                    | V       |  |
|                | LL06CR-RXxxL06     | 50 x 9.65       | 25° 40° 60° |                        |         |  |
|                | LL06ED-ADxxL06     | 73.3 x 11.5     | 25° 40° 60° |                        |         |  |
|                | LL06CR-AXMxxL06-M2 | 76 x 13         |             | 15° 25° 35°            | V       |  |
|                | LL06CY-TTxxL06     | 73.3 x 16       | 45°         |                        |         |  |
|                | LL06CR-AXLxxL06-M2 | 76 x 13         |             | 25°                    | V       |  |



XPE



XPE2



| Type    | Part Number    | DxH(mm)        | Full Angle  | FWHM    | Holder |
|---------|----------------|----------------|-------------|---------|--------|
| 7 in 1  | LL07CR-FRxxL06 | 35.8 x 6.5     | 25° 40° 60° |         |        |
|         | LL07CR-RXxxL06 | 50 x 10.3      | 40° 60°     |         |        |
|         | LL07ED-UYxxL06 | 47 x 10.3      | 40°         |         |        |
|         | LL07ZZ-FUxxL06 | 50.35 x 10.7   |             | 15° 25° |        |
|         | LL07ZZ-FVxxL06 | 39.2 x 10.6    |             | 15° 25° |        |
| 9 in 1  | LL09CR-FRxxL06 | 45 x 7         | 25° 40° 60° |         |        |
|         | LL09CR-RXxxL06 | 70 x 10.3      | 40° 60°     |         |        |
|         | LL09ED-UYxxL06 | 67 x 10.3      | 40°         |         |        |
|         | LL09CY-TTxxL06 | 90.6 x 18.8    | 45°         |         |        |
| 12 in 1 | LL12CR-FRxxL06 | 45 x 7         | 25° 40° 60° |         |        |
|         | LL12CR-RXxxL06 | 70 x 10.3      | 40° 60°     |         |        |
|         | LL12ED-UYxxL06 | 67 x 10.3      | 40°         |         |        |
|         | LL12OS-GKxxL06 | 67 x 9.8       | 40° 60°     |         |        |
| 24 in 1 | LL24CR-PFxxL02 | 113.6 x 76 x 9 | 15°         |         |        |
|         | LL24CR-VExxL02 | 99 x 90 x 10.3 | 15°         |         |        |

| Type            | Part Number        | DxH(mm)             | Full Angle | FWHM                    | Holder  |  |
|-----------------|--------------------|---------------------|------------|-------------------------|---------|--|
| Street Lighting | LL01CR-AU85135L02  | 18 x 10.2 x 6.1     |            | 85°x135°<br>(Asymmetry) |         |  |
|                 | LL01CR-BAJ85135L02 | 18 x 12.5 x 6.1     |            | 85°x135°<br>(Asymmetry) |         |  |
|                 | LL01CR-DL70130L02  | 26 x 12.7 x 8.65    |            | 70°x130°<br>(Asymmetry) |         |  |
|                 | LL01CR-DL90120L02  | 26 x 15.8 x 9.15    |            | 90°x120°<br>(Asymmetry) |         |  |
|                 | LL01CR-FT60135L02  | 18 x 9.3 x 5.9      |            | 60°x135°<br>(Symmetry)  |         |  |
|                 | LL01CR-KM6090L02   | 17.55 x 11.6 x 8.6  |            | 60°x90°<br>(Symmetry)   |         |  |
|                 | LL01CR-OG85150L02  | 18 x 8.95 x 6.2     |            | 85°x135°<br>(Symmetry)  |         |  |
|                 | LL01CR-OW70130L02  | 17.4 x 12.75 x 7.2  |            | 70°x130°<br>(Asymmetry) |         |  |
|                 | LL01CR-PB70140L02  | 22.4 x 11.4 x 6.9   |            | 70°x140°<br>(Asymmetry) |         |  |
|                 | LL01LU-NI75140L02  | 15.7 x 14 x 5.8     |            | 75°x140°<br>(Asymmetry) |         |  |
|                 | LL01LU-UQ70140L02  | 18 x 11 x 6.6       |            | 70°x140°<br>(Asymmetry) |         |  |
|                 | LL01OS-AU60130L02  | 30.1 x 14.3 x 8.5   |            | 60°x130°<br>(Symmetry)  |         |  |
|                 | LL01OS-AU60140L02  | 16 x 8.8 x 5.3      |            | 60°x140°<br>(Asymmetry) |         |  |
|                 | LL01ZZ-AGX45155L02 | 18 x 12.5 x 7       |            | 45°x155°<br>(Asymmetry) |         |  |
|                 | LL20CR-VK60140L02  | 319.3 x 52.3 x 14.6 |            | 60°x140°<br>(Asymmetry) |         |  |
|                 | LL24CR-AU75135L02  | 120 x 100 x 10.2    |            | 75°x135°<br>(Asymmetry) |         |  |
|                 | LL28CR-UI65140L14  | 259.2 x 79.7 x 12.2 |            | 65°x140°<br>(Asymmetry) |         |  |
|                 | LL30CR-PT60140L02  | 235 x 71 x 9.4      |            | 60°x140°<br>(Asymmetry) |         |  |
|                 | Reflector          | LL01CR-YNxxL08-P    | 19 x 15.3  |                         | 10° 20° |  |



XPE



XPE2



■ XPG / XPG2

| Type   | Part Number         | DxH(mm)      | Full Angle                         | FWHM                   | Holder      | Type   | Part Number    | DxH(mm)            | Full Angle     | FWHM           | Holder      |   |  |
|--------|---------------------|--------------|------------------------------------|------------------------|-------------|--------|----------------|--------------------|----------------|----------------|-------------|---|--|
| Single | LL01CR-BEXxxL06     | 20.9 x 9.2   | 25° 40° 60°                        |                        |             | 3 in 1 | LL03CR-AZxxL06 | 50 x 14.5          | 25° 45° 60°    |                |             |   |  |
|        | LL01CR-BRxxL06      | 19.65 x 12.5 | 40° 15°x80° 40°x90°                |                        |             |        | LL03CR-RXxxL06 | 35 x 9.6           | 25° 40° 60°    |                |             |   |  |
|        | LL01CR-DFxxL02-M2   | 13.5x7.35    | 25° 40° 60° 80° 100° 30x65°        |                        | V           |        | LL03ED-UYxxL06 | 33.2 x 10.3        | 40°            |                |             |   |  |
|        | LL01XP-DGxxL06-M2   | 32.8x18      | 20° 30° 40° 50° 60°                |                        | V           |        | LL03LU-DMxxL06 | 23.1 x 11          |                | 15° 25° 40°    |             |   |  |
|        | LL01CR-HQxxL06-M2   | 16x10.3      | 15° 25° 30° 40° 60° 80° 25x45°     |                        | V           |        | LL03LU-DOxxL06 | 35 x 10.6          |                | 15° 25° 40°    |             |   |  |
|        | LL01CR-NExxxL06-M2  | 23.5x15.8    | 15° 25° 40° 60° 80° 10 x45° 25x45° |                        | V           |        | LL03OS-GKxxL06 | 33.2 x 9.8         | 25° 40° 60°    |                |             |   |  |
|        | LL01CR-OTxxL06-M2   | 16.6x10.45   | 25° 40° 60° 80°                    |                        | V           |        | 4 in 1         | LL04CR-RXxxL06     | 35 x 9.7       | 25° 40° 60°    |             |   |  |
|        | LL01CR-SQxxL06      | 19.4 x 12.9  | 40° 60°                            |                        |             |        |                | LL04ED-UYxxL06     | 37 x 10.3      | 40°            |             |   |  |
|        | LL01CR-YJxxL02      | 19.4 x 12.6  | 40° 60°                            |                        |             |        |                | LL04LU-DNxxL06     | 25.4 x 10.5    |                | 15° 25° 40° |   |  |
|        | LL01ED-AJxxL06      | 28.9 x 19.7  | 40° 60°                            |                        |             |        |                | LL04LU-DOxxL06     | 35 x 10.4      |                | 15° 25° 40° |   |  |
|        | LL01ED-AKxxL06      | 34.4 x 18.8  | 25° 40°                            |                        |             | 5 in 1 | LL05CR-FRxxL06 | 35.8 x 6.5         | 25° 40° 60°    |                |             |   |  |
|        | LL01CR-AAFxxL02-M2  | 13.5x7.35    |                                    |                        | 25°         | V      | 6 in 1         | LL06CR-RXxxL06     | 50 x 9.65      | 25° 40° 60°    |             |   |  |
|        | LL01HS-AAFxxL02-M2  | 13.5x7.35    |                                    |                        | 45°         | V      |                | LL06ED-ADxxL06     | 73.3 x 11.5    | 25° 40° 60°    |             |   |  |
|        | LL01NI-ANExxxL02-M2 | 23.5x15.8    |                                    |                        | 10° 20° 30° | V      |                | LL06CR-AXMxxL06-M2 | 76 x 13        |                | 15° 25° 35° | V |  |
|        | LL01NI-GRxxL06      | 19.45 x 13.5 |                                    | 40° 60° 80°            |             |        | 7 in 1         | LL07CR-FRxxL06     | 35.8 x 6.5     | 25° 40° 60°    |             |   |  |
|        | LL01OS-AXxxL02      | 20 x 11.5    |                                    | 40°                    |             |        |                | LL07CR-RXxxL06     | 50 x 10.3      | 40° 60°        |             |   |  |
|        | LL01OS-MQxxL06      | 19.45 x 13.7 |                                    | 25° 40° 60°            |             |        |                | LL07ED-UYxxL06     | 47 x 10.3      | 40°            |             |   |  |
|        | LL01ZZ-EXxxL06-M2   | 22.4 x 9.7   |                                    | 10° 25° 40° 60° 30x65° |             | V      |                | LL07ZZ-FUxxL06     | 50.35 x 10.7   |                | 15° 25°     |   |  |
|        | LL01XP-FLxxL06-M2   | 24.3 x 11.5  |                                    | 10° 25° 40° 60° 30x65° |             | V      | LL07ZZ-FVxxL06 | 39.2 x 10.6        |                | 15° 25°        |             |   |  |
|        | LL01ZZ-AHAxxL06     | 50 x 25.4    |                                    |                        | 5°          |        | 9 in 1         | LL09CR-RXxxL06     | 70 x 10.3      | 40° 60°        |             |   |  |
|        | LL01CR-CRxxL06-M2   | 13.55x7.25   |                                    | 40° 60°                |             | V      |                | LL09ED-UYxxL06     | 67 x 10.3      | 40°            |             |   |  |
|        | LL01CR-BMxxL06      | 35.8x15.85   |                                    | 40°                    |             |        |                | 12 in 1            | LL12CR-FRxxL06 | 45 x 7         | 25° 40° 60° |   |  |
|        | LL01CR-BNExxxL06    | 19.4x14.6    |                                    | 25° 40° 60°            |             |        | LL12CR-RXxxL06 |                    | 70 x 10.3      | 40° 60°        |             |   |  |
|        | LL01CR-WbxxL02      | 28.8x17.4    |                                    |                        | 15° 25° 40° |        | LL12ED-AGxxL06 |                    | 112 x 13.4     | 45°            |             |   |  |
|        | LL01CR-XSxxL06      | 22.2x10.6    |                                    | 40°                    |             |        | LL12ED-BGxxL06 |                    | 95 x 11.2      | 40°            |             |   |  |
|        | LL01ED-ANxxL06      | 22.7x9.6     |                                    | 15x50°                 |             |        | LL12ED-UYxxL06 |                    | 67 x 10.3      | 40°            |             |   |  |
|        | LL01ED-AOxxL06      | 19.4x13.5    |                                    | 60° 80°                |             |        | LL12OS-GKxxL06 |                    | 67 x 9.8       | 40° 60°        |             |   |  |
|        | LL01ED-AQxxL06      | 22.5x10.45   |                                    | 40°                    |             |        | 24 in 1        |                    | LL24CR-PFxxL02 | 113.6 x 76 x 9 | 15°         |   |  |
|        | LL01ED-ASxxR06      | 19.9x10.55   |                                    | 38° 60°                |             |        |                |                    | LL24CR-VExxL02 | 99 x 90 x 10.3 | 15°         |   |  |
|        | LL01OS-BWxxL06      | 37.2x15.35   |                                    | 30°                    |             |        |                |                    |                |                |             |   |  |
|        | LL01OS-BYxxL06      | 37.2x15.35   |                                    | 30°                    |             |        |                |                    |                |                |             |   |  |



XPG



XPG2



## ■ XPG/XPG2

| Type              | Part Number         | DxH(mm)             | Full Angle           | FWHM                 | Holder |
|-------------------|---------------------|---------------------|----------------------|----------------------|--------|
| Street Lighting   | LL01CR-APM80150L02  | 18 x 12.5 x 6.95    |                      | 80°x150° (Asymmetry) |        |
|                   | LL01CR-AU85135L02   | 18 x 10.2 x 6.1     |                      | 85°x135° (Asymmetry) |        |
|                   | LL01CR-BAJ85135L02  | 18 x 12.5 x 6.1     |                      | 85°x135° (Asymmetry) |        |
|                   | LL01CR-DL70130L02   | 26 x 12.7 x 8.65    |                      | 70°x130° (Asymmetry) |        |
|                   | LL01CR-DL90120L02   | 26 x 15.8 x 9.15    |                      | 90°x120° (Asymmetry) |        |
|                   | LL01CR-FT60135L02   | 18 x 9.3 x 5.9      |                      | 60°x135° (Symmetry)  |        |
|                   | LL01CR-KM6090L02    | 17.55 x 11.6 x 8.6  |                      | 60°x90° (Symmetry)   |        |
|                   | LL01CR-OG85150L02   | 18 x 8.95 x 6.2     |                      | 85°x150° (Symmetry)  |        |
|                   | LL01CR-OW70130L02   | 17.4 x 12.75 x 7.2  |                      | 70°x130° (Asymmetry) |        |
|                   | LL01CR-PB70140L02   | 22.4 x 11.4 x 6.9   |                      | 70°x140° (Asymmetry) |        |
|                   | LL01LU-AEV50150L02  | 18 x 12.5 x 6.3     |                      | 50°x150° (Asymmetry) |        |
|                   | LL01LU-AIK45135L02  | 18 x 12.5 x 7.05    |                      | 45°x135° (Asymmetry) |        |
|                   | LL01LU-NI75140L02   | 15.7 x 14 x 5.8     |                      | 75°x140° (Asymmetry) |        |
|                   | LL01LU-UQ70140L02   | 18 x 11 x 6.6       |                      | 70°x140° (Asymmetry) |        |
|                   | LL01OS-AU60130L02   | 30.1 x 14.3 x 8.5   |                      | 60°x130° (Symmetry)  |        |
|                   | LL01OS-AU60140L02   | 16 x 8.8 x 5.3      |                      | 60°x140° (Asymmetry) |        |
|                   | LL01ZZ-AGX45155L02  | 18 x 12.5 x 7       |                      | 45°x155° (Asymmetry) |        |
|                   | LL20CR-VK60140L02   | 319.3 x 52.3 x 14.6 |                      | 60°x140° (Asymmetry) |        |
| LL24CR-AU75135L02 | 120 x 100 x 10.2    |                     | 75°x135° (Asymmetry) |                      |        |
| LL28CR-UI65140L14 | 259.2 x 79.7 x 12.2 |                     | 65°x140° (Asymmetry) |                      |        |
| LL30CR-PT60140L02 | 235 x 71 x 9.4      |                     | 60°x140° (Asymmetry) |                      |        |
| Reflector         | LL01CR-YNxxL08-P    | 19 x 15.3           |                      | 10° 20°              |        |

## ■ MX3/ MX6

| Type            | Part Number        | DxH(mm)           | Full Angle      | FWHM                | Holder |
|-----------------|--------------------|-------------------|-----------------|---------------------|--------|
| Single          | LL01CR-BRxxL06     | 19.65 x 12.5      | 40°             |                     |        |
|                 | LL01CR-DGxxL06     | 28.8 x 16.65      | 30° 40° 60°     |                     |        |
|                 | LL01CR-WlxxL02     | 28.8 x 17.4       |                 | 25° 40°             |        |
|                 | LL01CR-ZExxL02     | 35 x 20.4         | 20° 45°         |                     |        |
|                 | LL01ED-AJxxL06     | 28.9 x 19.7       | 25° 40° 60°     |                     |        |
|                 | LL01ED-AKxxL06     | 34.4 x 18.8       | 25° 40°         |                     |        |
|                 | LL01ED-ASxxL06     | 19.9 x 10.15      | 60°             |                     |        |
|                 | LL01ED-BBxxL06     | 35.8 x 16.5       | 60°             |                     |        |
|                 | LL01ED-CTxxL06     | 31 x 11.2         | 38° 80°         |                     |        |
|                 | LL01ED-CVxxL06     | 19.6 x 12.3       | 45°             |                     |        |
|                 | LL01NI-AAFxxL02-M2 | 13.5 x 7.35       |                 | 45°                 | V      |
|                 | LL01NI-GRxxL06-M2  | 23.5 x 14.9       | 40°             |                     | V      |
|                 | LL01OS-AXxxL02     | 20 x 11.5         | 40° 60°         |                     |        |
|                 | LL01OS-BWxxL06     | 37.2 x 15.35      | 30°             |                     |        |
|                 | LL01OS-BYxxL06     | 37.2 x 15.35      | 30°             |                     |        |
|                 | LL01ZZ-EXxxL06     | 21 x 9.3          | 25° 40°         |                     |        |
|                 | LL01ZZ-FLxxL06     | 22.2 x 10.6       | 10° 25° 40° 60° |                     |        |
|                 | LL01ED-FMxxL06     | 19.9 x 10.55      | 38°             |                     |        |
|                 | LL01OS-CBxxL06     | 25.6 x 10         | 15°             |                     |        |
|                 | LL01CR-ABGxxL02    | 34 x 15.7         |                 | 24°                 |        |
|                 | LL01CR-BSxxL06     | 19.8 x 12.5       | 60°             |                     |        |
|                 | LL01CR-SQxxL06     | 19.4 x 12.9       | 40° 60° 80°     |                     |        |
|                 | LL01CR-AAFxxL02-M2 | 13.5 x 7.35       |                 | 25°                 | V      |
|                 | LL01ED-BVxxL06     | 19.9 x 10.7       | 60°             |                     |        |
|                 | LL03CR-EKxxL06     | 35 x 9            | 40° 60°         |                     |        |
|                 | LL03ED-AZxxL06     | 50.5 x 13         | 45°             |                     |        |
|                 | LL03ED-BAxxL06     | 50.5 x 13         | 45° 60°         |                     |        |
|                 | LL03ED-CTxxL06     | 31 x 11.2         | 38°             |                     |        |
|                 | LL03CR-CExxL06     | 34 x 9.9          | 38°             |                     |        |
|                 | LL03ED-AFxxL06     | 50.5 x 20         | 45° 60°         |                     |        |
|                 | LL03CR-HKxxL06     | 35 x 8.2          | 40°             |                     |        |
|                 | LL03ZZ-EUxxL06     | 33 x 6.9          | 38°             |                     |        |
| 6 in 1          | LL06CR-AXMxxL06-M2 | 76 x 13           |                 | 25°                 | V      |
|                 | LL06CR-AXLxxL06-M2 | 76 x 13           |                 | 25°                 | V      |
|                 | LL06CR-AXNxxL06-M2 | 76 x 13           |                 | 25°                 | V      |
| 9 in 1          | LL09ED-ATxxL06     | 90.6 x 17.5       | 40°             |                     |        |
| 12 in 1         | LL12ED-AGxxL06     | 112 x 13.4        | 45°             |                     |        |
|                 | LL12ED-BGxxL06     | 95 x 11.2         | 40°             |                     |        |
| 15 in 1         | LL15ED-BHxxL06     | 95 x 11.1         | 40°             |                     |        |
| 18 in 1         | LL18ED-BlxxL06     | 110 x 13.1        | 40°             |                     |        |
| 24 in 1         | LL24ED-ABxxL06     | 174.5 x 12.7      | 45°             |                     |        |
| 36 in 1         | LL36ED-AAxxL06     | 140 x 12.6        | 45°             |                     |        |
| 60 in 1         | LL60ED-BOxxL06     | 180 x 13.1        | 25°             |                     |        |
| Street Lighting | LL01OS-AU60130L02  | 30.1 x 14.3 x 8.5 |                 | 60°x130° (Symmetry) |        |



**MX3  
MX6**



XTE



XTE



| Type           | Part Number        | DxH(mm)      | Full Angle              | FWHM        | Holder |
|----------------|--------------------|--------------|-------------------------|-------------|--------|
| Single         | LL01CR-AAFxxL02-M2 | 13.5 x 7.35  |                         | 25°         | V      |
|                | LL01CR-BRxxL06     | 19.65 x 12.5 | 40°                     |             |        |
|                | LL01CR-DFxxL02-M2  | 13.5 x 7.35  | 80° 100°                |             | V      |
|                | LL01XP-DGxxL06-M2  | 32.8 x 18    | 30° 50° 60°             |             | V      |
|                | LL01CR-HQxxL06-M2  | 16 x 10.3    | 40° 60° 80°             |             | V      |
|                | LL01CR-NExxL06-M2  | 23.5 x 15.8  | 25° 40° 60° 80° 25 x45° |             | V      |
|                | LL01CR-OTxxL06-M2  | 16.6 x 10.45 | 80°                     |             | V      |
|                | LL01CR-SQxxL06     | 19.4 x 12.9  | 40° 60°                 |             |        |
|                | LL01CR-WlxxL02     | 28.8 x 17.4  |                         | 25° 40°     |        |
|                | LL01ED-AKxxL06     | 34.4x18.8    | 25°                     |             |        |
|                | LL01ED-AJxxL06     | 28.9 x 19.7  | 25° 40° 60°             |             |        |
|                | LL01ED-ASxxR06     | 19.9x10.55   | 38° 60°                 |             |        |
|                | LL01HS-AAFxxL02-M2 | 13.5x7.35    |                         | 45° 60°     | V      |
|                | LL01NI-ANExxL02-M2 | 23.5 x 15.8  |                         | 10° 20° 30° | V      |
|                | LL01NI-GRxxL06     | 19.45 x 13.5 | 40° 80°                 |             |        |
|                | LL01OS-BYxxL06     | 37.2 x 15.35 | 30°                     |             |        |
|                | LL01OS-MQxxL06     | 19.45 x 13.7 | 25° 40° 60°             |             |        |
|                | LL01ZZ-EXxxL06-M2  | 22.4 x 9.7   | 40° 60°                 |             | V      |
|                | LL01XP-FLxxL06-M2  | 24.3x11.5    | 25° 40° 60° 30x65°      |             | V      |
|                | LL01CR-XSxxL06     | 22.2x10.6    | 40°                     |             |        |
| LL01OS-CBxxL06 | 25.6 x 10          |              | 15°                     |             |        |
| 3 in 1         | LL03CR-AZxxL06     | 50 x 14.5    | 25° 45°                 |             |        |
|                | LL03CR-RXxxL06     | 35 x 9.6     | 40° 60°                 |             |        |
|                | LL03ED-ASxxL06     | 37.7 x 10.5  | 38°                     |             |        |
|                | LL03ED-CTxxL06     | 31 x 11.2    | 38°                     |             |        |
|                | LL03ED-UYxxL06     | 33.2 x 10.3  | 40°                     |             |        |
|                | LL03LU-DOxxL06     | 35 x 10.6    |                         | 25° 40°     |        |
|                | LL03OS-GKxxL06     | 33.2 x 9.8   | 25° 40° 60°             |             |        |
|                | LL03CR-CExxL06     | 34 x 9.9     | 38°                     |             |        |

| Type            | Part Number        | DxH(mm)             | Full Angle | FWHM                  | Holder |
|-----------------|--------------------|---------------------|------------|-----------------------|--------|
| 4 in 1          | LL04CR-RXxxL06     | 35 x 9.7            | 40° 60°    |                       |        |
|                 | LL04ED-UYxxL06     | 37 x 10.3           | 40°        |                       |        |
|                 | LL04LU-DNxxL06     | 25.4 x 10.5         |            | 25° 40°               |        |
|                 | LL04LU-DOxxL06     | 35 x 10.4           |            | 25° 40°               |        |
| 5 in 1          | LL05CR-BFRxxL06    | 35.8 x 6.3          |            | 25° 40° 60°           |        |
| 6 in 1          | LL06CR-RXxxL06     | 50 x 9.65           | 40° 60°    |                       |        |
|                 | LL06CY-TTxxL06     | 73.3 x 16           | 45°        |                       |        |
| 7 in 1          | LL07CR-BFRxxL06    | 35.8 x 6.3          |            | 25° 40° 60°           |        |
|                 | LL07CR-RXxxL06     | 50 x 10.3           | 40° 60°    |                       |        |
|                 | LL07ED-UYxxL06     | 47 x 10.3           | 40°        |                       |        |
|                 | LL07ZZ-FVxxL06     | 39.2 x 10.6         | 30° 60°    | 25°                   |        |
| 9 in 1          | LL09CR-RXxxL06     | 70 x 10.3           | 40° 60°    |                       |        |
|                 | LL09ED-UYxxL06     | 67 x 10.3           | 40°        |                       |        |
|                 | LL09CY-TTxxL06     | 90.6 x 18.8         | 45°        |                       |        |
| 12 in 1         | LL12CR-RXxxL06     | 70 x 10.3           | 40° 60°    |                       |        |
|                 | LL12ED-UYxxL06     | 67 x 10.3           | 40°        |                       |        |
| 15 in 1         | LL15ED-BHxxL06     | 95 x 11.1           | 40°        |                       |        |
| 18 in 1         | LL18ED-BLxxL06     | 110 x 13.1          | 40°        |                       |        |
| 24 in 1         | LL24ED-ABxxL06     | 174.5 x 12.7        | 45°        |                       |        |
| 36 in 1         | LL36ED-AAxxL06     | 140 x 12.6          | 45°        |                       |        |
| Street Lighting | LL01CR-APM80150L02 | 18 x 12.5 x 6.95    |            | 80° x150° (Asymmetry) |        |
|                 | LL01CR-BAJ85135L02 | 18 x 12.5 x 6.1     |            | 85° x135° (Asymmetry) |        |
|                 | LL01CR-OW70130L02  | 17.4 x 12.75 x 7.2  |            | 70° x130° (Asymmetry) |        |
|                 | LL01CR-PB70140L02  | 22.4 x 11.4 x 6.9   |            | 70° x140° (Asymmetry) |        |
|                 | LL01LU-UQ70140L02  | 18 x 11 x 6.6       |            | 70° x140° (Asymmetry) |        |
|                 | LL14CR-AOC65150L02 | 250 x 60 x 9.9      |            | 65° x150° (Asymmetry) |        |
|                 | LL24CR-AU75135L02  | 120 x 100 x 10.2    |            | 75° x135° (Asymmetry) |        |
|                 | LL28CR-UI65140L14  | 259.2 x 79.7 x 12.2 |            | 65° x140° (Asymmetry) |        |
|                 | LL30CR-PT60140L02  | 235 x 71 x 9.4      |            | 60° x140° (Asymmetry) |        |



■ XML

| Type            | Part Number        | DxH(mm)          | Full Angle                         | FWHM                     | Holder |
|-----------------|--------------------|------------------|------------------------------------|--------------------------|--------|
| Single          | LL01CR-ABGxxL02    | 34 x 15.7        |                                    | 24° 55°                  |        |
|                 | LL01CR-ACZxxL02    | 27.8 x 10.2      |                                    | 24° 38°                  |        |
|                 | LL01ED-ABYxxL02    | 44 x 14.1        |                                    | 24°                      |        |
|                 | LL01CR-BRxxL06     | 19.65 x 12.5     | 40° 10x45° 15x50°<br>15x80° 40x90° |                          |        |
|                 | LL01CR-ADGxxL06-M2 | 32.8 x 18        | 20° 30° 40° 50° 60°                |                          | V      |
|                 | LL01CR-PVxxL02     | 45 x 23.7        | 45° 60° 80°                        |                          |        |
|                 | LL01CR-SQxxL06-M2  | 19.4 x 12.9      | 40° 60° 80°                        |                          | V      |
|                 | LL01CR-WlxxL02-M2  | 28.8 x 17.4      |                                    | 15° 25° 40°              | V      |
|                 | LL01CR-XSxxL06     | 22.2 x 10.6      | 40°                                |                          |        |
|                 | LL01CR-YJxxL02-M2  | 19.4 x 12.7      | 40° 60° 80° 100°                   |                          | V      |
|                 | LL01ED-ACZxxL02    | 35 x 10.7        |                                    | 24° 38°                  |        |
|                 | LL01ED-AJxxL06     | 28.9 x 19.7      | 25° 40° 60°                        |                          |        |
|                 | LL01ED-CVxxL06     | 19.6 x 12.3      | 45°                                | 15° 25°                  |        |
|                 | LL01NI-GRxxL06     | 19.45 x 13.5     | 25° 40° 60° 80°                    |                          |        |
|                 | LL01ZZ-AFLxxL02    | 22.2 x 10.4      |                                    | 35° 50°                  |        |
|                 | LL01ZZ-EXxxL06     | 21 x 9.15        | 10° 40° 110° 30x65°                |                          |        |
|                 | LL01ZZ-FLxxL06     | 22.2 x 10.6      | 10° 40° 30 x65°                    |                          |        |
|                 | LL01OS-CBxxL06     | 25.6 x 10        | 15°                                |                          |        |
|                 | LL01ZZ-AHA05L06-M2 | 50 x 25.4        |                                    | 5°                       | V      |
|                 | LL01CR-BJH10L06    | 45 x 26.3        |                                    | 10°                      |        |
| 6 in 1          | LL06CR-AXNxxL06-M2 | 76 x 13          |                                    | 25°                      | V      |
|                 | LL06ED-ADxxL06     | 73.3 x 11.5      | 25° 40°                            |                          |        |
|                 | LL06CR-AXMxxL06-M2 | 76 x 13          |                                    | 15° 25° 35°              | V      |
|                 | LL06CR-AXLxxL06-M2 | 76 x 13          |                                    | 25°                      | V      |
| 9 in 1          | LL09ED-BZxxL06     | 90.75 x 16.5     | 25°                                |                          |        |
|                 | LL09ED-ATxxL06     | 90.6 x 17.5      | 40°                                |                          |        |
|                 | LL09ED-BQxxL06     | 90.6 x 16.5      | 25° 60°                            |                          |        |
| Street Lighting | LL01CR-XW70140L02  | 32 x 17.6 x 9.8  |                                    | 70° x140°<br>(Asymmetry) |        |
|                 | LL01LU-AGV80150L02 | 32 x 18.5 x 9.5  |                                    | 80° x150°<br>(Asymmetry) |        |
|                 | LL24CR-AU75135L02  | 120 x 100 x 10.2 |                                    | 75° x135°<br>(Asymmetry) |        |

■ XML 2

| Type            | Part Number        | DxH(mm)        | Full Angle                         | FWHM          | Holder |
|-----------------|--------------------|----------------|------------------------------------|---------------|--------|
| Single          | LL01CR-ABGxxL02    | 34 x 15.7      |                                    | 24° 38°       |        |
|                 | LL01CR-ACZxxL02    | 27.8 x 10.2    |                                    | 24° 38°       |        |
|                 | LL01CR-BMxxL06     | 35.8 x 15.85   | 40°                                |               |        |
|                 | LL01CR-BRxx3L06    | 19.65 x 12.5   | 40° 10x45° 15x50°<br>15x80° 40x90° |               |        |
|                 | LL01CR-BSxxL06     | 19.8 x 12.5    | 60°                                |               |        |
|                 | LL01CR-DGxxL06     | 28.8 x 16.75   | 20° 30° 40° 50° 60°                |               |        |
|                 | LL01CR-NExxL06     | 19.4 x 14.9    | 15° 80° 10x45°                     |               |        |
|                 | LL01CR-PVxxL02     | 45 x 23.7      | 45° 60° 80°                        |               |        |
|                 | LL01CR-SQxxL06     | 19.4 x 12.9    | 40° 60° 80°                        |               |        |
|                 | LL01CR-WlxxL02     | 28.8 x 17.4    |                                    | 15° 25° 40°   |        |
|                 | LL01CR-XSxxL06     | 22.2 x 10.6    | 40°                                |               |        |
|                 | LL01CR-ZExxL02     | 35 x 20.4      |                                    | 20°           |        |
|                 | LL01ED-ACZxxL02    | 35 x 10.7      |                                    | 24° 38°       |        |
|                 | LL01ED-AFDxxL06    | 26 x 15.3      |                                    | 20°           |        |
|                 | LL01ED-AJxxL06     | 28.9 x 19.7    | 25° 40° 60°                        |               |        |
|                 | LL01ED-AKxxL06     | 34.4 x 18.8    | 25° 40°                            |               |        |
|                 | LL01ED-ALxxL06     | 19.7 x 9.9     | 30x65°                             |               |        |
|                 | LL01ED-ANxxL06     | 22.7 x 9.6     | 15°x50°                            |               |        |
|                 | LL01ED-AOxxL06     | 19.4 x 13.45   | 60°                                |               |        |
|                 | LL01ED-AQxxL06     | 22.5 x 10.45   | 40° 60°                            |               |        |
|                 | LL01ED-ASxxL06     | 19.9 x 10.15   | 60°                                |               |        |
|                 | LL01ED-AYxxL06     | 43.8 x 24.5    | 38°                                | 10°           |        |
|                 | LL01ED-CYxxL06     | 26.8 x 18.9    | 30° 45°                            |               |        |
|                 | LL01LU-AFCxxL06    | 19.4 x 11.8    |                                    | 15x60° 20x50° |        |
|                 | LL01NI-GRxxL06     | 19.45 x 13.5   | 25° 40° 60° 80°                    |               |        |
|                 | LL01OS-AXxxL02     | 20 x 11.5      | 20° 40° 60°                        |               |        |
|                 | LL01OS-BWxxL06     | 37.2 x 15.35   | 30°                                |               |        |
|                 | LL01OS-BYxxL06     | 37.2 x 15.35   | 30°                                |               |        |
|                 | LL01ZZ-AHZxxL02-M2 | 24.3 x 12.3    |                                    | 38°           | V      |
|                 | LL01ZZ-EXxxL06     | 21 x 9.3       | 40° 30x65°                         |               |        |
| LL01ZZ-FLxxL06  | 22.2 x 10.6        | 10° 40° 30x65° |                                    |               |        |
| LL01CR-FoxxL06  | 35.8 x 15.75       | 40°            |                                    |               |        |
| LL01LU-AAxxL06  | 19.7 x 13.8        | 20x65°         |                                    |               |        |
| LL01LU-LHxxL06  | 21 x 9.15          | 15°            |                                    |               |        |
| LL01NI-DZxxL06  | 22 x 15.7          | 20x40°         |                                    |               |        |
| LL01OS-CBxxL06  | 25.6 x 10          | 15°            |                                    |               |        |
| LL01ZZ-AHAxxL06 | 50 x 25.4          |                | 5°                                 |               |        |





XML  
EZW



MKR



MTG



MTG2



■ XML EZW

| Type   | Part Number        | DxH(mm)            | Full Angle        | FWHM            | Holder                  |                         |
|--------|--------------------|--------------------|-------------------|-----------------|-------------------------|-------------------------|
| Single | LL01CR-ABGxxL02    | 34 x 15.7          |                   | 24°             |                         |                         |
|        | LL01CR-ACZxxL02    | 27.8 x 10.2        |                   | 24° 38°         |                         |                         |
|        | LL01ED-ABYxxL02    | 44 x 14.1          |                   | 24°             |                         |                         |
|        | LL01CR-AQHxxL02    | 44 x 14.1          |                   | 38° 45°         |                         |                         |
|        | LL01CR-BRxxL06     | 19.65 x 12.5       | 40°               |                 |                         |                         |
|        | LL01CR-ADGxxL06-M2 | 32.8 x 18          | 20° 30° 40° 60°   |                 | V                       |                         |
|        | LL01CR-SQxxL06     | 19.4 x 12.9        | 60°               |                 |                         |                         |
|        | LL01CR-WlxxL02     | 28.8 x 17.4        |                   | 25° 40°         |                         |                         |
|        | LL01ED-ACZxxL02    | 35 x 10.7          |                   | 24° 38°         |                         |                         |
|        | LL01ED-AJxxL06     | 28.9 x 19.7        | 25° 40° 60°       |                 |                         |                         |
|        | LL01ED-AKxxL06     | 34.4 x 18.8        | 25° 40°           |                 |                         |                         |
|        | LL01ED-AQxxL06     | 22.5 x 10.5        | 60°               |                 |                         |                         |
|        | LL01ED-ASxxL06     | 19.9 x 10.15       | 60°               |                 |                         |                         |
|        | LL01ED-BBxxL06     | 35.8 x 16.5        | 60°               |                 |                         |                         |
|        | LL01ED-CVxxL06     | 19.6 x 12.3        | 45°               |                 |                         |                         |
|        | LL01ED-CYxxL06     | 26.8 x 18.9        | 30° 45°           |                 |                         |                         |
|        | LL01NI-GRxxL06     | 19.45 x 13.5       | 40° 60° 80°       |                 |                         |                         |
|        | LL01OS-AXxxL02     | 20 x 11.5          | 40° 60°           |                 |                         |                         |
|        | LL01OS-BWxxL06     | 37.2 x 15.35       | 30°               |                 |                         |                         |
|        | LL01OS-BYxxL06     | 37.2 x 15.35       | 30°               |                 |                         |                         |
| 6 in 1 | LL01ZZ-AFLxxL02    | 22.2 x 10.4        |                   | 35° 50°         |                         |                         |
|        | LL01ZZ-AHZxxL02-M2 | 24.3 x 12.3        |                   | 24° 38°         | V                       |                         |
|        | LL01ZZ-FLxxL06     | 22.2 x 10.6        | 40°               |                 |                         |                         |
|        | LL01OS-CBxxL06     | 25.6 x 10          | 15°               |                 |                         |                         |
|        | LL06ED-ADxxL06     | 73.3 x 11.5        | 25° 40° 60°       |                 |                         |                         |
|        | LL06CR-AXMxxL06-M2 | 76 x 13            |                   | 15° 25°         | V                       |                         |
|        | 9 in 1             | LL09ED-ATxxL06     | 90.6 x 17.5       | 40°             |                         |                         |
|        |                    | 12 in 1            | LL12ED-AGxxL06    | 112 x 13.4      | 45°                     |                         |
|        | Street Lighting    |                    | LL01CR-XW70140L02 | 32 x 17.6 x 9.8 |                         | 70°x140°<br>(Asymmetry) |
|        |                    | LL01LU-AGV80150L02 | 32 x 18.5 x 9.5   |                 | 80°x150°<br>(Asymmetry) |                         |

■ MKR

| Type   | Part Number     | DxH(mm)            | Full Angle          | FWHM        | Holder                  |   |
|--------|-----------------|--------------------|---------------------|-------------|-------------------------|---|
| Single | LL01CR-ABGxxL02 | 34 x 15.7          |                     | 22°         |                         |   |
|        | LL01CR-ABHxxL02 | 50 x 10.4          |                     | 40° 60°     |                         |   |
|        | LL01CR-ADPxxL06 | 75.8 x 35.2        |                     | 15° 24° 38° |                         |   |
|        | LL01ED-ABYxxL02 | 44 x 14.1          |                     | 24°         |                         |   |
|        | LL01CR-AQHxxL02 | 44 x 14.1          |                     | 38°         |                         |   |
|        | LL01CR-BRxxL06  | 19.65 x 12.5       | 40°                 |             |                         |   |
|        | LL01CR-DGxxL06  | 28.8 x 16.75       | 20° 30° 40° 50° 60° |             |                         |   |
|        | LL01CR-PVxxL02  | 45 x 23.7          | 45° 60° 80°         |             |                         |   |
|        | LL01CR-WlxxL02  | 28.8 x 17.4        |                     | 25° 40°     |                         |   |
|        | LL01CR-ZExxL02  | 35 x 20.4          |                     | 20° 30° 45° |                         |   |
|        | LL01ED-AFDxxL06 | 26 x 15.3          |                     | 20°         |                         |   |
|        | LL01ED-AKxxL06  | 34.4 x 18.8        | 25° 40°             |             |                         |   |
|        | LL01ED-CYxxL06  | 26.8 x 18.9        | 30°                 |             |                         |   |
|        | 6 in 1          | LL01LU-AFLxxL02-M2 | 24.3 x 11.5         |             | 35° 50° 70°             | V |
|        |                 | LL06ED-ADxxL06     | 73.3 x 11.5         |             | 60°                     |   |
|        |                 | LL06CR-AXMxxL06-M2 | 76 x 13             |             | 25° 35°                 | V |
|        | Street Lighting | LL06CR-AXLxxL06-M2 | 76 x 13             |             | 25°                     | V |
|        |                 | LL01LU-AGV80150L02 | 32 x 18.5 x 9.5     |             | 80°x150°<br>(Asymmetry) |   |

■ MTG/MTG2

| Type            | Part Number        | DxH(mm)      | Full Angle  | FWHM        | Holder |   |
|-----------------|--------------------|--------------|-------------|-------------|--------|---|
| Single          | LL01CR-ABGxxL02    | 34 x 15.7    |             | 24° 38° 55° |        |   |
|                 | LL01CR-ABHxxL02    | 50 x 10.4    |             | 40° 60°     |        |   |
|                 | LL01CR-ADPxxL06    | 75.8 x 35.2  |             | 15° 24° 38° |        |   |
|                 | LL01ED-ABYxxL02    | 44 x 14.1    |             | 24°         |        |   |
|                 | LL01CR-PVxxL02-M2  | 47.2 x 25.65 | 45° 60° 80° |             | V      |   |
|                 | LL01CR-ZExxL02-M2  | 37.1 x 20.7  |             | 20° 30° 45° | V      |   |
|                 | LL01ED-ABXxxL06    | 75.8 x 24.35 |             | 24° 38°     |        |   |
|                 | LL01ED-AFDxxL06    | 26 x 15.3    |             | 20°         |        |   |
|                 | LL01ED-AYxxL06-M2  | 46 x 27.1    | 38°         |             | 10°    | V |
|                 | LL01CR-AFLxxL02-M2 | 24.3 x 11.5  |             | 35° 50° 70° | V      |   |
| LL01CR-AQHxxL06 | 44 x 14.1          |              | 38°         |             |        |   |

■ CXA1304

| Type      | Part Number       | DxH(mm)      | Full Angle          | FWHM        | Holder |
|-----------|-------------------|--------------|---------------------|-------------|--------|
| Single    | LL01CR-ABHxxL02   | 50 x 10.4    |                     | 40° 60°     |        |
|           | LL01ED-ABYxxL02   | 44 x 14.1    |                     | 24°         |        |
|           | LL01CR-AQHxxL02   | 44 x 14.1    |                     | 38° 45°     |        |
|           | LL01CR-DGxxL06    | 28.8 x 16.75 | 20° 30° 40° 50° 60° |             |        |
|           | LL01CR-PVxxL02    | 45 x 23.7    | 45° 60° 80°         |             |        |
|           | LL01ED-AFDxxL06   | 26 x 15.5    |                     | 15° 20°     |        |
|           | LL01ED-AKxxL06    | 34.4 x 18.8  | 25° 40°             |             |        |
|           | LL01ED-AYxxL06    | 43.8 x 24.5  | 10° 38°             |             |        |
|           | LL01ZZ-AFLxxL02   | 22.2 x 10.4  |                     | 35° 50°     |        |
| Reflector | LL01BR-TYRxxR34-P | 45 x 19.4    |                     | 24° 34° 50° |        |
|           | LL01CT-AJZxxR49   | 50 x 19      |                     | 38° 55°     |        |
|           | LL01CT-AMXxxR49   | 44x11.8      |                     | 45°         |        |
|           | LL01ED-AJMxxR49   | 35.2 x 7.8   |                     | 24° 38°     |        |
|           | LL01ED-ALlxxR49   | 50 x 19      |                     | 24° 55°     |        |

■ CXA15xx

| Type            | Part Number        | DxH(mm)           | Full Angle  | FWHM        | Holder      |  |
|-----------------|--------------------|-------------------|-------------|-------------|-------------|--|
| Single          | LL01CR-ABGxxL02    | 34x15.7           |             | 55°         |             |  |
|                 | LL01CR-ABHxxL06    | 50x10.4           |             | 40° 60°     |             |  |
|                 | LL01CR-PVxxL02     | 45x23.7           | 45° 60° 80° |             |             |  |
|                 | LL01CR-AQHxxL02    | 44x14.1           |             | 38° 45°     |             |  |
|                 | LL01ED-ABYxxL02    | 44x14.1           |             | 24°         |             |  |
|                 | LL01ED-ABXxxL06    | 75.8x24.35        |             | 38°         |             |  |
|                 | LL01ED-ASAxxL06-P  | 90.6x22           |             | 38°         |             |  |
|                 | LL01CR-BAYxxL06    | 75.8x22.5         |             | 24° 38°     |             |  |
|                 | LL01ED-AYxxL06     | 43.8x24.5         | 38°         | 10°         |             |  |
|                 | LL01CT-AMYxxL06    | 75.8x23           |             | 38°         |             |  |
|                 | LL01ZZ-AOFxxL06-M2 | 76.4x16.7         |             | 24° 38°     | V           |  |
|                 | LL01CT-APGxxL06-M2 | 90.8x22           |             | 24° 38°     | V           |  |
|                 | LL01CR-BGS24L06    | 34 x 15.7         |             | 24°         |             |  |
|                 | Reflector          | LL01BR-TYRxxR34-P | 45x19.4     |             | 24° 34° 50° |  |
|                 |                    | LL01CIOTxxR2-P    | 50x30       |             | 20° 33° 45° |  |
| LL01CR-AYGxxR49 |                    | 75x45             |             | 15° 24° 38° |             |  |
| LL01CT-AJZxxR49 |                    | 50x19             |             | 38° 55°     |             |  |
| LL01CT-ALNxxR49 |                    | 75.8x20.1         |             | 38° 45°     |             |  |
| LL01CT-ALOxxR49 |                    | 90.5x23.2         |             | 24° 38° 45° |             |  |
| LL01CT-AMXxxR49 |                    | 44x11.8           |             | 45°         |             |  |
| LL01ED-AJMxxR49 |                    | 35.2x7.8          |             | 24° 38°     | V           |  |
| LL01ED-AKVxxR49 |                    | 50.5x29.5         |             | 36°         |             |  |
| LL01ED-AKYxxR49 |                    | 50x30             |             | 24° 38° 45° |             |  |
| LL01ED-ALAxR49  |                    | 75x20.1           |             | 24° 38°     |             |  |
| LL01ED-ALlxxR49 |                    | 50x19             |             | 24° 38° 55° |             |  |
| LL01SP-ATHxxR49 |                    | 75x40             |             | 15° 24° 38° |             |  |
| LL01ZZ-AAAxL49  |                    | 70x35             |             | 24° 38° 55° |             |  |



CXA  
1304



CXA  
15xx





CXA  
1816



CXA  
25xx



CXA  
3050



■ CXA1816

| Type                     | Part Number              | DxH(mm)      | Full Angle | FWHM            | Holder |
|--------------------------|--------------------------|--------------|------------|-----------------|--------|
| Single                   | LL01CT-AMYxxL06          | 75.8 x 23    |            | 24° 38°         |        |
|                          | LL01ZZ-AOFxxL06-M2       | 76.4 x 16.7  |            | 24° 38°         | V      |
|                          | LL01CT-APGxxL06-M2       | 90.8 x 22    |            | 24° 38°         | V      |
|                          | LL01ED-ABXxxL06          | 75.8 x 24.35 |            | 24° 38°         |        |
|                          | LL01ED-ASAxxL06-P        | 90.6 x 22    |            | 12° 24° 38°     |        |
| Reflector                | LL01BR-TYRxxR34-P        | 45 x 19.4    |            | 24° 34° 50°     |        |
|                          | LL01CT-ALOxxR49          | 90.5x23.2    |            | 24° 38° 45°     |        |
|                          | LL01ED-AKAxxR49          | 85 x 23.5    |            | 60°             |        |
|                          | LL01ED-ALIxxR49          | 50 x 19      |            | 24° 55°         |        |
|                          | LL01ED-ALJxxR49          | 91.5 x 23.2  |            | 24° 38° 45°     |        |
|                          | LL01SP-ASOxxR49          | 90 x 50      |            | 15° 24° 38° 55° |        |
|                          | LL01SP-ATHxxR49          | 75x40        |            | 15° 24° 38°     |        |
|                          | LL01CR-BGCxxR49-BKG15L02 | 75 x 45      |            | 15° 24° 38°     |        |
|                          | LL01CR-BDJ80R49          | 90 x 40      |            | 80°             |        |
| LL01CR-BIYxxR49-BIZ120L0 | 100 x 57                 |              | 13° 24°    |                 |        |

■ CXA25xx

| Type      | Part Number        | DxH(mm)      | Full Angle  | FWHM            | Holder |
|-----------|--------------------|--------------|-------------|-----------------|--------|
| Single    | LL01CT-AMYxxL06    | 75.8 x 23    |             | 24° 38°         |        |
|           | LL01ZZ-AOFxxL06-M2 | 76.4 x 16.7  |             | 24° 38°         | V      |
|           | LL01CT-APGxxL06-M2 | 90.8 x 22    |             | 24° 38°         | V      |
|           | LL01ED-ABXxxL06    | 75.8 x 24.35 |             | 24° 38°         |        |
|           | LL01ED-ASAxxL06-P  | 90.6 x 22    | 45° 60° 80° | 12° 24° 38°     |        |
| Reflector | LL01CIOTxxR2-P     | 50x30        |             | 20° 33° 45°     |        |
|           | LL01CR-AYMxxR35-P  | 90 x 50      |             | 15° 24° 38°     |        |
|           | LL01ED-AKAxxR49    | 85 x 23.5    |             | 60°             | V      |
|           | LL01ED-AKXxxR49    | 116 x 32     |             | 24° 38°         | V      |
|           | LL01ED-ALJxxR49    | 91.5 x 23.2  |             | 24° 38° 45°     | V      |
|           | LL01SP-ASOxxR49    | 90 x 50      |             | 15° 24° 38° 55° |        |

■ CXA3050

| Type      | Part Number     | DxH(mm)     | Full Angle | FWHM        | Holder |
|-----------|-----------------|-------------|------------|-------------|--------|
| Single    | LL01CT-AMYxxL06 | 75.8 x 23   |            | 24° 38°     |        |
|           | LL01CT-APGxxL06 | 84.6 x 18   |            | 24° 38°     |        |
| Reflector | LL01ED-AKAxxR49 | 85 x 23.5   |            | 60°         |        |
|           | LL01ED-AKXxxR49 | 116 x 32    |            | 24° 38°     |        |
|           | LL01ED-ALJxxR49 | 91.5 x 23.2 |            | 24° 38° 45° |        |



■ LHCI 1203

| Type      | Part Number        | DxH(mm)      | Full Angle | FWHM            | Holder |
|-----------|--------------------|--------------|------------|-----------------|--------|
| Single    | LL01ZZ-AOFxxL06-M2 | 76.4 x 16.7  |            | 24° 38°         | V      |
|           | LL01CT-APGxxL06-M2 | 90.8 x 22    |            | 24° 38°         | V      |
|           | LL01ED-ABXxxL06    | 75.8 x 24.35 |            | 38°             |        |
| Reflector | LL01SP-ASOxxR49    | 90 x 50      |            | 15° 24° 38° 55° |        |
|           | LL01SP-ATHxxR49    | 75 x 40      |            | 15° 24° 38°     |        |
|           | LL01ZZ-AAAxL49     | 70 x 35      |            | 38° 55°         |        |

■ LHCI 1205

| Type      | Part Number        | DxH(mm)      | Full Angle | FWHM            | Holder |
|-----------|--------------------|--------------|------------|-----------------|--------|
| Single    | LL01CR-BAYxxL06    | 75.8 x 22.5  |            | 24° 38°         |        |
|           | LL01CT-AMYxxL06    | 75.8 x 23    |            | 24° 38°         |        |
|           | LL01ZZ-AOFxxL06-M2 | 76.4 x 16.7  |            | 24° 38°         | V      |
|           | LL01CT-APGxxL06-M2 | 90.8 x 22    |            | 24° 38°         | V      |
|           | LL01ED-ABXxxL06    | 75.8 x 24.35 |            | 24° 38°         |        |
|           | LL01ED-ASAxL06-P   | 90.6 x 22    |            | 12° 24° 38°     |        |
| Reflector | LL01SP-ASOxxR49    | 90 x 50      |            | 15° 24° 38° 55° |        |
|           | LL01SP-ATHxxR49    | 75 x 40      |            | 15° 24° 38°     |        |
|           | LL01TJ-AONxxR49    | 50 x 20      |            | 24° 60°         |        |
|           | LL01ZZ-AAAxL49     | 70 x 35      |            | 38° 55°         |        |

■ LHCI 1204

| Type      | Part Number        | DxH(mm)      | Full Angle | FWHM            | Holder |
|-----------|--------------------|--------------|------------|-----------------|--------|
| Single    | LL01CR-BAYxxL06    | 75.8 x 22.5  |            | 24° 38°         |        |
|           | LL01CT-AMYxxL06    | 75.8 x 23    |            | 24° 38°         |        |
|           | LL01ZZ-AOFxxL06-M2 | 76.4 x 16.7  |            | 24° 38°         | V      |
|           | LL01CT-APGxxL06-M2 | 90.8 x 22    |            | 24° 38°         | V      |
|           | LL01ED-ABXxxL06    | 75.8 x 24.35 |            | 24° 38°         |        |
|           | LL01ED-ASAxL06-P   | 90.6 x 22    |            | 12° 24° 38°     |        |
| Reflector | LL01SP-ASOxxR49    | 90 x 50      |            | 15° 24° 38° 55° |        |
|           | LL01SP-ATHxxR49    | 75 x 40      |            | 15° 24° 38°     |        |
|           | LL01ZZ-AAAxL49     | 70 x 35      |            | 38° 55°         |        |

■ LHCI 1208

| Type      | Part Number        | DxH(mm)      | Full Angle | FWHM            | Holder |
|-----------|--------------------|--------------|------------|-----------------|--------|
| Single    | LL01CR-BAYxxL06    | 75.8 x 22.5  |            | 24° 38°         |        |
|           | LL01CT-AMYxxL06    | 75.8 x 23    |            | 24°             |        |
|           | LL01ZZ-AOFxxL06-M2 | 76.4 x 16.7  |            | 24° 38°         | V      |
|           | LL01CT-APGxxL06-M2 | 90.8 x 22    |            | 24° 38°         | V      |
|           | LL01ED-ABXxxL06    | 75.8 x 24.35 |            | 24° 38°         |        |
|           | LL01ED-ASAxL06-P   | 90.6 x 22    |            | 12° 24° 38°     |        |
| Reflector | LL01SP-ASOxxR49    | 90 x 50      |            | 15° 24° 38° 55° |        |
|           | LL01SP-ATHxxR49    | 75 x 40      |            | 15° 24° 38°     |        |
|           | LL01TJ-AONxxR49    | 50 x 20      |            | 24° 60°         |        |
|           | LL01ZZ-AAAxL49     | 70 x 35      |            | 38° 55°         |        |



■ Rebel

| Type              | Part Number        | DxH(mm)                | Full Angle                         | FWHM                             | Holder            | Type               | Part Number        | DxH(mm)            | Full Angle           | FWHM                 | Holder |
|-------------------|--------------------|------------------------|------------------------------------|----------------------------------|-------------------|--------------------|--------------------|--------------------|----------------------|----------------------|--------|
| Single            | LL01CR-BRxxL06     | 19.65 x 12.5           | 10x45° 15x50° 15x80°<br>40x90° 40° |                                  |                   | 6 in 1             | LL06CR-CKxL06      | 73.2 x 13.5        | 25°                  |                      |        |
|                   | LL01LU-DFxxL06-M2  | 13.5 x 7.35            | 80° 100° 30x65°                    |                                  | V                 |                    | LL06CR-RXxxL06     | 50 x 9.65          | 40° 60°              |                      |        |
|                   | LL01CR-DGxxL06     | 28.8 x 16.75           | 30° 40° 50° 60°                    |                                  |                   |                    | LL06ED-ADxxL06     | 73.3 x 11.5        | 25° 40° 60°          |                      |        |
|                   | LL01CR-HQxxL06     | 14.8 x 9.5             | 40° 60° 80°                        |                                  |                   |                    | LL06CR-AXMxxL06-M2 | 76 x 13            |                      | 15° 25°              | V      |
|                   | LL01CR-NExxL06     | 19.4 x 15              | 25° 40° 60° 80° 10x45°<br>25x45°   |                                  |                   | LL06CR-AXLxxL06-M2 | 76 x 13            |                    | 25°                  | V                    |        |
|                   | LL01ED-AJxxL06     | 28.9 x 19.7            | 45° 60°                            |                                  |                   | 7 in 1             | LL07CR-RXxxL06     | 50 x 10.3          | 40° 60°              |                      |        |
|                   | LL01ED-AKxxL06     | 34.4 x 18.8            | 40°                                |                                  |                   |                    | LL07ED-UYxxL06     | 47 x 10.3          | 40°                  |                      |        |
|                   | LL01ED-CTxxL06     | 31 x 11.2              | 38° 80°                            |                                  |                   |                    | LL07OS-GKxxL06     | 47 x 9.8           | 40° 60°              |                      |        |
|                   | LL01OS-AFC15L06    | 19.4 x 11.43           |                                    | 10° 15° 25° 30°                  |                   |                    | LL07ZZ-FUxxL06     | 50.35 x 10.7       |                      | 15° 25°              |        |
|                   | LL01LU-AFCxxL06-M2 | 21.3 x 12.4            |                                    | 10° 15° 25° 30°<br>10x35° 15x30° |                   | V                  | LL07ZZ-FVxxL06     | 39.2 x 10.6        |                      | 15° 25°              |        |
|                   | LL01NI-AAFxxL02    | 11.8 x 6.5             |                                    | 45° 60°                          |                   | 9 in 1             | LL09CR-RXxxL06     | 70 x 10.3          | 40° 60°              |                      |        |
|                   | LL01NI-GRxxL06     | 19.45 x 13.5           | 40° 60° 80°                        |                                  |                   |                    | LL09ED-UYxxL06     | 67 x 10.3          | 40°                  |                      |        |
|                   | LL01OS-AXxxL02     | 20 x 11.5              | 20° 40° 60°                        |                                  |                   |                    | LL09OS-GKxxL06     | 67 x 9.8           | 40° 60°              |                      |        |
|                   | LL01OS-BWxxL06     | 37.2 x 15.35           | 30°                                |                                  |                   |                    | LL09ED-ATxxL06     | 90.6 x 17.5        | 40°                  |                      |        |
|                   | LL01OS-BYxxL06     | 37.2 x 15.35           | 30°                                |                                  |                   | 12 in 1            | LL12CR-RXxxL06     | 70 x 10.3          | 40° 60°              |                      |        |
|                   | LL01OS-MQxxL06     | 19.45 x 13.7           | 40° 60°                            |                                  |                   |                    | LL12ED-AGxxL06     | 112 x 13.4         | 45°                  |                      |        |
|                   | LL01LU-QDxxL06-M2  | 23 x 9.63              | 25° 40° 60° 30x65°                 |                                  | V                 |                    | LL12ED-UYxxL06     | 67 x 10.3          | 40°                  |                      |        |
| LL01LU-FLxxL06-M2 | 24.3 x 11.5        | 10° 25° 40° 60° 30x65° |                                    | V                                | LL12OS-GKxxL06    | 67 x 9.8           | 40° 60°            |                    |                      |                      |        |
| LL01ED-FMxxL06    | 19.9 x 10.55       | 38°                    |                                    |                                  | 15 in 1           | LL15ED-BHxxL06     | 95 x 11.1          | 40°                |                      |                      |        |
| LL01LU-AAxxL06    | 19.7 x 13.8        | 20x65°                 |                                    |                                  | 18 in 1           | LL18ED-BIxxL06     | 110 x 13.1         | 25° 40°            |                      |                      |        |
| LL01LU-LHxxL06-M2 | 22.4 x 9.63        | 15°                    |                                    | V                                | 24 in 1           | LL24ED-ABxxL06     | 174.5 x 12.7       | 45°                |                      |                      |        |
| LL01ZZ-AHAXxxL06  | 50 x 25.4          |                        | 5°                                 |                                  | 36 in 1           | LL36ED-AAxxL06     | 140 x 12.6         | 45°                |                      |                      |        |
| 3 in 1            | LL03CR-AZxxL06     | 50 x 14.5              | 25° 45°                            |                                  |                   | Street<br>Lighting | LL01CR-APM80150L02 | 18 x 12.5 x 6.95   |                      | 80°x150° (Asymmetry) |        |
|                   | LL03CR-RXxxL06     | 35 x 9.6               | 40° 60°                            |                                  |                   |                    | LL01CR-AU85135L02  | 18 x 10.2 x 6.1    |                      | 85°x135° (Asymmetry) |        |
|                   | LL03ED-UYxxL06     | 33.2 x 10.3            | 40°                                |                                  |                   |                    | LL01CR-FT60135L02  | 18 x 9.3 x 5.9     |                      | 60°x135° (Symmetry)  |        |
|                   | LL03LU-DMxxL06     | 23.1 x 11              | 15° 25° 40°                        |                                  |                   |                    | LL01CR-KM6090L02   | 17.55 x 11.6 x 8.6 |                      | 60°x90° (Symmetry)   |        |
|                   | LL03LU-DOxxL06     | 35 x 10.6              | 15° 25° 40°                        |                                  |                   |                    | LL01CR-OG85150L02  | 18 x 8.95 x 6.2    |                      | 85°x150° (Symmetry)  |        |
| LL03OS-GKxxL06    | 33.2 x 9.8         | 25° 40° 60°            |                                    |                                  | LL01CR-OW70130L02 |                    | 17.4 x 12.75 x 7.2 |                    | 70°x130° (Asymmetry) |                      |        |
| 4 in 1            | LL04CR-RXxxL06     | 35 x 9.7               | 40° 60°                            |                                  |                   |                    | LL01LU-AIK45135L02 | 18 x 12.5 x 7.05   |                      | 45°x135° (Asymmetry) |        |
|                   | LL04ED-UYxxL06     | 37 x 10.3              | 40°                                |                                  |                   |                    | LL01LU-UQ70140L02  | 18 x 11 x 6.6      |                      | 70°x140° (Asymmetry) |        |
|                   | LL04LU-DNxxL06     | 25.4 x 10.5            | 15° 25° 40°                        |                                  |                   |                    | LL01ZZ-AGX45155L02 | 18 x 12.5 x 7      |                      | 45°x155° (Asymmetry) |        |
|                   | LL04LU-DOxxL06     | 35 x 10.4              | 15° 25° 40°                        |                                  |                   |                    | LL24CR-AU75135L02  | 120 x 100 x 10.2   |                      | 75°x135° (Asymmetry) |        |
|                   | LL04LU-GPxxL06     | 22.2 x 6.8             | 15° 25° 45°                        |                                  |                   |                    |                    |                    |                      |                      |        |
|                   | LL04OS-GKxxL06     | 37 x 9.8               | 40° 60°                            |                                  |                   |                    |                    |                    |                      |                      |        |
| LL04ZZ-EXxxL06    | 25.4 x 10.4        | 30°                    |                                    |                                  |                   |                    |                    |                    |                      |                      |        |

## Rebel Es

| Type              | Part Number        | DxH(mm)      | Full Angle                         | FWHM | Holder |
|-------------------|--------------------|--------------|------------------------------------|------|--------|
| Single            | LL01CR-BRxxL06     | 19.65 x 12.5 | 40° 10x45° 15x50°<br>15x80° 40x90° |      |        |
|                   | LL01LU-DFxxL06-M2  | 13.5 x 7.35  | 80° 100° 30x65°                    |      | V      |
|                   | LL01CR-DGxxL06     | 28.8 x 16.75 | 30° 40° 50° 60°                    |      |        |
|                   | LL01CR-HQxxL06     | 14.8 x 9.5   | 40° 60° 80°                        |      |        |
|                   | LL01CR-NExxL06     | 19.4 x 15    | 25° 40° 60° 80° 10x45°<br>25x45°   |      |        |
|                   | LL01ED-AJxxL06     | 28.9 x 18.55 | 60°                                |      |        |
|                   | LL01LU-AFCxxL06-M2 | 21.3 x 12.4  | 15x60° 20x50°                      |      | V      |
|                   | LL01NI-AAFxxL02    | 11.8 x 6.5   |                                    | 60°  |        |
|                   | LL01NI-GRxxL06     | 19.45 x 13.5 | 40° 60° 80°                        |      |        |
|                   | LL01OS-AXxxL02     | 20 x 11.4    | 60°                                |      |        |
|                   | LL01OS-MQxxL06     | 19.45 x 13.7 | 40° 60°                            |      |        |
|                   | LL01LU-EXxxL06-M2  | 22.4 x 9.7   | 25° 40° 60° 30x65°                 |      | V      |
|                   | LL01LU-FLxxL06-M2  | 24.3 x 11.5  | 10° 25° 40° 60° 30x65°             |      | V      |
| LL01LU-LHxxL06-M2 | 22.4 x 9.63        | 15°          |                                    | V    |        |
| LL01ZZ-AHAxxL06   | 50 x 25.4          |              |                                    | 5°   |        |
| 3 in 1            | LL03CR-AZxxL06     | 50 x 14.5    | 45° 60°                            |      |        |
|                   | LL03CR-RXxxL06     | 35 x 9.6     | 40° 60°                            |      |        |
|                   | LL03ED-UYxxL06     | 33.2 x 10.3  | 40°                                |      |        |
| 4 in 1            | LL04CR-RXxxL06     | 35 x 9.7     | 40° 60°                            |      |        |
|                   | LL04ED-UYxxL06     | 37 x 10.3    | 40°                                |      |        |
|                   | LL04LU-GPxxL06     | 22.2 x 6.8   | 15° 25° 45°                        |      |        |
|                   | LL04DD-AMGxxL06    | 35 x 7       |                                    | 38°  |        |
| 6 in 1            | LL06CR-RXxxL06     | 50 x 9.65    | 40° 60°                            |      |        |
|                   | LL06ED-ADxxL06     | 73.3 x 11.5  | 8° 25° 40° 60°                     |      |        |
| 7 in 1            | LL07CR-RXxxL06     | 50 x 10.3    | 40° 60°                            |      |        |
|                   | LL07ED-BFxxL06     | 43.9 x 8.55  | 25°                                |      |        |
|                   | LL07ED-GKxxL06     | 47 x 10.2    | 25° 40°                            |      |        |
|                   | LL07ED-UYxxL06     | 47 x 10.3    | 40°                                |      |        |

| Type    | Part Number        | DxH(mm)             | Full Angle | FWHM                    | Holder |
|---------|--------------------|---------------------|------------|-------------------------|--------|
| 9 in 1  | LL09CR-RXxxL06     | 70 x 10.3           | 40° 60°    |                         |        |
|         | LL09ED-BZxxL06     | 90.75 x 16.5        | 15° 25°    |                         |        |
|         | LL09ED-UYxxL06     | 67 x 10.3           | 40°        |                         |        |
| 12 in 1 | LL12CR-RXxxL06     | 70 x 10.3           | 40° 60°    |                         |        |
|         | LL12ED-UYxxL06     | 67 x 10.3           | 40°        |                         |        |
| 15 in 1 | LL15ED-BHxxL06     | 95 x 11.1           | 40°        |                         |        |
| 18 in 1 | LL18ED-BLxxL06     | 110 x 13.1          | 40°        |                         |        |
| 24 in 1 | LL24ED-ABxxL06     | 174.5 x 12.7        | 25° 45°    |                         |        |
| 36 in 1 | LL36ED-AAxxL06     | 140 x 12.6          | 45°        |                         |        |
| 12 in 1 | LL01CR-AU85135L02  | 18 x 10.2 x 6.1     |            | 85°x135°<br>(Asymmetry) |        |
|         | LL01CR-FT60135L02  | 18 x 9.3 x 5.9      |            | 60°x135°<br>(Symmetry)  |        |
|         | LL01CR-KM6090L02   | 17.55 x 11.6 x 8.6  |            | 60°x90°<br>(Symmetry)   |        |
|         | LL01CR-OG85150L02  | 18 x 8.95 x 6.2     |            | 85°x150°<br>(Symmetry)  |        |
|         | LL01LU-AEV50150L02 | 18 x 12.5 x 6.3     |            | 50°x150°<br>(Asymmetry) |        |
|         | LL01LU-AIK45135L02 | 18 x 12.5 x 7.05    |            | 45°x135°<br>(Asymmetry) |        |
|         | LL01LU-UQ70140L02  | 18 x 11 x 6.6       |            | 70°x140°<br>(Asymmetry) |        |
|         | LL01ZZ-AGX45155L02 | 18 x 12.5 x 7       |            | 45°x155°<br>(Asymmetry) |        |
|         | LL14LU-ALY90130L19 | 250 x 60 x 9.3      |            | 90°x130°<br>(Asymmetry) |        |
|         | LL24CR-AU75135L02  | 120 x 100 x 10.2    |            | 75°x135°<br>(Asymmetry) |        |
|         | LL28CR-UI65140L14  | 259.2 x 79.7 x 12.2 |            | 65°x140°<br>(Asymmetry) |        |





■ Luxeon T

| Type            | Part Number     | DxH(mm)         | Full Angle                               | FWHM        | Holder |
|-----------------|-----------------|-----------------|--|-------------|--------|
| Single          | LL01CR-BExxL06  | 20.9 x 9.2      | 60°                                      |             |        |
|                 | LL01CR-BMxxL06  | 35.8 x 15.85    | 40°                                      |             |        |
|                 | LL01CR-BNExxL06 | 19.4 x 14.6     | 40° 35°x70°                              |             |        |
|                 | LL01CR-BRxxL06  | 19.65 x 12.5    | 10x45° 15x50° 15x80°<br>40x90°           |             |        |
|                 | LL01CR-DFxxL06  | 11.8 x 6.65     | 80° 100° 30°x65°                         |             |        |
|                 | LL01CR-DGxxL06  | 28.8 x 16.75    | 20° 30° 40° 50° 60°                      |             |        |
|                 | LL01CR-HQxxL06  | 14.8 x 9.4      | 60°                                      |             |        |
|                 | LL01CR-NExxL06  | 19.4 x 15       | 15° 17° 25° 40° 60° 80°<br>10x45° 25x45° |             |        |
|                 | LL01CR-PVxxL02  | 45 x 23.7       | 45° 60° 80°                              |             |        |
|                 | LL01CR-SQxxL06  | 19.4 x 12.9     | 40° 60° 80°                              |             |        |
|                 | LL01CR-WlxxL02  | 28.8 x 17.4     |  | 25° 40°     |        |
|                 | LL01CR-XSxxL06  | 22.2 x 10.6     | 40°                                      |             |        |
|                 | LL01CR-YJxxL02  | 19.4 x 12.7     | 40° 60° 80° 100°                         |             |        |
|                 | LL01CR-ZExxL02  | 35 x 20.4       |  |             | 20°    |
|                 | LL01ED-AFDxxL06 | 26 x 15.3       |  |             | 20°    |
|                 | LL01ED-AJxxL06  | 28.9 x 19.7     | 25° 40° 60°                              |             |        |
|                 | LL01ED-AKxxL06  | 34.4 x 18.8     | 40°                                      |             |        |
|                 | LL01ED-ALxxL06  | 19.7 x 9.9      | 30x65°                                   |             |        |
|                 | LL01ED-ANxxL06  | 22.7 x 9.6      | 15x50°                                   |             |        |
|                 | LL01ED-AOxxL06  | 19.4 x 13.45    | 60°                                      |             |        |
|                 | LL01ED-ASxxR06  | 19.9 x 10.55    | 38°                                      |             |        |
|                 | LL01ED-CTxxL06  | 31 x 11.2       | 80°                                      |             |        |
|                 | LL01ED-CYxxL06  | 26.8 x 18.9     | 30°                                      |             |        |
|                 | LL01LU-AFCxxL06 | 19.4 x 11.8     | 20x50°                                   |             |        |
|                 | LL01CR-AAFxxL02 | 11.8 x 6.65     |  | 25°         |        |
|                 | LL01NI-AAFxxL02 | 11.8 x 6.65     |  | 45° 60°     |        |
|                 | LL01NI-ANExxL02 | 19.4 x 14.94    |  | 10° 20° 30° |        |
|                 | LL01NI-GRxxL06  | 19.45 x 13.5    | 40° 60° 80°                              |             |        |
|                 | LL01OS-AXxxL02  | 20 x 11.5       | 20° 40° 60°                              |             |        |
|                 | LL01OS-BWxxL06  | 37.2 x 15.35    | 30°                                      |             |        |
| LL01OS-BYxxL06  | 37.2 x 15.35    | 10° 30°         |  |             |        |
| LL01OS-MQxxL06  | 19.45 x 13.7    | 15° 25° 40° 60° |  |             |        |
| LL01ZZ-AFLxxL02 | 22.2 x 10.4     |                 | 35°                                      |             |        |
| LL01ZZ-AHZxxL02 | 22.2 x 10.6     |                 | 24° 38°                                  |             |        |
| LL01ZZ-EXxxL06  | 21 x 9.3        | 40° 30°x65°     |  |             |        |

| Type            | Part Number       | DxH(mm)            | Full Angle      | FWHM                    | Holder |
|-----------------|-------------------|--------------------|-----------------|-------------------------|--------|
| Single          | LL01ZZ-FLxxL06    | 22.2 x 10.6        | 10° 25° 40° 60° |                         |        |
|                 | LL01CR-ADT40L06   | 35 x 10.65         | 40°             |                         |        |
|                 | LL01CR-FO40L06    | 35.8 x 15.75       | 40°             |                         |        |
|                 | LL01ED-FM38L06    | 19.9 x 10.55       | 38°             |                         |        |
|                 | LL01LU-AA2065L06  | 19.7 x 13.8        | 20°x65°         |                         |        |
|                 | LL01LU-LH15L06    | 21 x 9.15          | 15°             |                         |        |
|                 | LL01NI-DZ2040L06  | 22 x 15.7          | 20°x40°         |                         |        |
|                 | LL01OS-CB15L06    | 25.6 x 10          | 15°             |                         |        |
|                 | LL03CR-AZ25L06    | 50x14.5            | 25° 45°         |                         |        |
|                 | LL03CR-RX25L06    | 35x9.6             | 25° 40° 60°     |                         |        |
| 3 in 1          | LL03ED-BC15L06    | 43.9x9.5           |                 | 15° 25°                 |        |
|                 | LL03ED-CT38L06    | 31x11.2            | 38° 80°         |                         |        |
|                 | LL03ED-UY40L06    | 33.2x10.3          | 40° 60°         |                         |        |
|                 | LL03LU-DM15L06    | 23.1x11            | 15° 25°         |                         |        |
|                 | LL03LU-DO15L06    | 35x10.6            | 15° 25°         |                         |        |
|                 | LL03OS-GK40L06    | 33.2x9.8           | 40° 60° 80°     |                         |        |
|                 | LL04CR-RX40L06    | 35x9.7             | 40° 60°         |                         |        |
| 4 in 1          | LL04ED-BD15L06    | 43.9x9.5           |                 | 15°                     |        |
|                 | LL04LU-DN15L06    | 25.4x10.5          |                 | 15° 25°                 |        |
|                 | LL04LU-DO15L06    | 35x10.4            |                 | 15° 25°                 |        |
|                 | LL04LU-GP15L06    | 22.2x6.8           |                 | 15°                     |        |
| 6 in 1          | LL04OS-GK40L06    | 37x9.8             | 40° 60° 80°     |                         |        |
|                 | LL06CR-RX40L06    | 50x9.65            | 40° 60°         |                         |        |
| 7 in 1          | LL07CR-RX40L06    | 50x10.3            | 40° 60°         |                         |        |
|                 | LL07OS-GK40L06    | 47x9.8             | 40° 60° 80°     |                         |        |
| 9 in 1          | LL09CR-RX40L06    | 70x10.3            | 40° 60°         |                         |        |
|                 | LL09OS-GK40L06    | 67x9.8             | 40° 60° 80°     |                         |        |
| 12 in 1         | LL12CR-RX40L06    | 70x10.3            | 40° 60°         |                         |        |
|                 | LL12OS-GK40L06    | 67x9.8             | 40° 60° 80°     |                         |        |
| Street Lighting | LL01CR-FT60135L02 | 18 x 9.3 x 5.9     |                 | 60°x135°<br>(Symmetry)  |        |
|                 | LL01CR-OW70130L02 | 17.4 x 12.75 x 7.2 |                 | 70°x130°<br>(Asymmetry) |        |
|                 | LL01OS-AU60130L02 | 30.1 x 14.3 x 8.5  |                 | 60°x130°<br>(Symmetry)  |        |
|                 | LL01OS-AU60140L02 | 16 x 8.8 x 5.33    |                 | 60°x140°<br>(Asymmetry) |        |



## Luxeon M

| Type            | Part Number        | DxH(mm)         | Full Angle  | FWHM                    | Holder |
|-----------------|--------------------|-----------------|-------------|-------------------------|--------|
| Single          | LL01CR-ABGxxL02    | 34 x 15.7       |             | 24° 38° 55°             |        |
|                 | LL01CR-ABHxxL02    | 50 x 10.4       |             | 40° 60°                 |        |
|                 | LL01CR-ADPxxL06    | 75.8 x 35.2     |             | 15° 24° 38°             |        |
|                 | LL01ED-ABYxxL02    | 44 x 14.1       |             | 24°                     |        |
|                 | LL01CR-BRxxL06     | 19.65 x 12.5    | 40°         |                         |        |
|                 | LL01LU-DGxxL06-M2  | 32.8 x 18       |             | 30° 40° 50° 60°         | V      |
|                 | LL01CR-PVxxL02     | 45 x 23.7       | 45° 60° 80° |                         |        |
|                 | LL01CR-WlxxL02     | 28.8 x 17.4     |             | 25° 40°                 |        |
|                 | LL01CR-ZExxL02     | 35 x 20.4       |             | 20° 30° 45°             |        |
|                 | LL01ED-AFDxxL06    | 26 x 15.3       |             | 20°                     |        |
|                 | LL01ED-AJxxL06     | 28.9 x 18.55    | 60°         |                         |        |
|                 | LL01ED-AKxxL06     | 34.4 x 18.8     | 40°         |                         |        |
|                 | LL01ED-AYxxL06     | 43.8 x 24.5     | 38°         | 10°                     |        |
|                 | LL01ED-CYxxL06     | 26.8 x 18.9     | 30° 45°     |                         |        |
|                 | LL01LU-AFLxxL02-M2 | 24.3 x 11.5     |             | 35° 50° 70°             | V      |
| LL01ED-BVxxL06  | 19.9 x 10.7        | 60°             |             |                         |        |
| 6 in 1          | LL06ED-ADxxL06     | 73.3 x 11.5     | 40° 60°     |                         |        |
|                 | LL06CR-AXMxxL06-M2 | 76 x 13         |             | 15° 25° 35°             | V      |
|                 | LL06CR-AXLxxL06-M2 | 76 x 13         |             | 25°                     | V      |
| Street Lighting | LL01CR-XW70140L02  | 32 x 17.6 x 9.8 |             | 70°x140°<br>(Asymmetry) |        |
|                 | LL01LU-AGV80150L02 | 32 x 18.5 x 9.5 |             | 80°x150°<br>(Asymmetry) |        |

## Luxeon S

| Type   | Part Number        | DxH(mm)     | Full Angle  | FWHM        | Holder |
|--------|--------------------|-------------|-------------|-------------|--------|
| Single | LL01CR-ABGxxL02    | 34 x 15.7   |             | 24° 38° 55° |        |
|        | LL01CR-ADPxxL06    | 75.8 x 35.2 |             | 15° 24° 38° |        |
|        | LL01ED-ABYxxL02    | 44 x 14.1   |             | 24°         |        |
|        | LL01CR-PVxxL02     | 45 x 23.7   | 45° 60° 80° |             |        |
|        | LL01CR-ZExxL02     | 35 x 20.4   |             | 20° 30° 45° |        |
|        | LL01ED-AYxxL06     | 43.8 x 24.5 | 38°         | 10°         |        |
|        | LL01LU-AFLxxL02-M2 | 24.3 x 11.5 |             | 35° 50°     | V      |



■ Oslon 80°

| Type            | Part Number        | DxH(mm)       | Full Angle             | FWHM                             | Holder |
|-----------------|--------------------|---------------|------------------------|----------------------------------|--------|
| Single          | LL01OS-BDFxxL06-M2 | 13.5 x 7.35   | 40° 60° 100°           |                                  | V      |
|                 | LL01CR-BRxxL06     | 19.65 x 12.5  | 40°                    |                                  |        |
|                 | LL01CR-DGxxL06     | 28.8 x 16.65  | 30° 40° 60°            |                                  |        |
|                 | LL01CR-HQxxL06     | 14.8 x 9.6    | 15° 30° 40° 60° 80°    |                                  |        |
|                 | LL01CR-NExxL06     | 19.4 x 15     | 40° 60° 80° 25x45°     |                                  |        |
|                 | LL01CR-OTxxL06     | 15 x 9.7      | 40° 60° 80°            |                                  |        |
|                 | LL01ED-AJxxL06     | 28.9 x 19.7   | 40° 60°                |                                  |        |
|                 | LL01ED-AKxxL06     | 34.4 x 18.8   | 40°                    |                                  |        |
|                 | LL01ED-BBxxL06     | 35.8 x 16.5   | 60°                    |                                  |        |
|                 | LL01ED-CTxxL06     | 31 x 11.2     | 38°                    |                                  |        |
|                 | LL01OS-AFCxxL06-M2 | 21.3 x 12.4   |                        | 10° 15° 25° 30°<br>10x35° 15x30° | V      |
|                 | LL01OS-AAFxxL06-M2 | 13.5 x 7.35   |                        | 25°                              | V      |
|                 | LL01NI-GRxxL06     | 19.45 x 13.5  | 40° 60° 80°            |                                  |        |
|                 | LL01OS-AXxxL02     | 20 x 11.5     | 40° 60°                |                                  |        |
|                 | LL01OS-BWxxL06     | 37.2 x 15.35  | 30°                    |                                  |        |
|                 | LL01OS-BYxxL06     | 37.2 x 15.35  | 30°                    |                                  |        |
|                 | LL01OS-HGxxL06     | 10 x 6        | 40° 60°                |                                  |        |
|                 | LL01OS-MQxxL06-M2  | 21.05 x 14.75 | 15° 25° 40° 60°        |                                  | V      |
|                 | LL01OS-EXxxL06-M2  | 22.4 x 9.7    | 10° 25° 40° 60° 30x65° |                                  | V      |
|                 | LL01ZZ-FLxxL06     | 22.2 x 10.6   | 25° 40° 60°            |                                  |        |
| LL01ED-FMxxL06  | 19.9 x 10.55       | 38°           |                        |                                  |        |
| LL01OS-CBxxL06  | 25.6 x 10          | 15°           |                        |                                  |        |
| LL01ZZ-AHAxxL06 | 50 x 25.4          |               | 5°                     |                                  |        |
| LL01OS-BFVxxL06 | 20.8 x 12.35       |               | 15° 25° 30°<br>15x40°  |                                  |        |
| 3 in 1          | LL03CR-RXxxL06     | 35 x 9.6      | 40° 60°                |                                  |        |
|                 | LL03ED-UYxxL06     | 33.2 x 10.3   | 40°                    |                                  |        |
|                 | LL03LU-DMxxL06     | 23.1 x 11     | 15° 25° 40°            |                                  |        |
|                 | LL03LU-DOxxL06     | 35 x 10.6     | 15° 25° 40°            |                                  |        |
|                 | LL03OS-GKxxL06     | 33.2 x 9.8    | 25° 40° 60° 80°        |                                  |        |
| 4 in 1          | LL04CR-GPxxL06     | 22.2 x 6.7    | 25° 38° 45°            |                                  |        |
|                 | LL04CR-RXxxL06     | 35 x 9.7      | 40° 60°                |                                  |        |
|                 | LL04ED-UYxxL06     | 37 x 10.3     | 40°                    |                                  |        |
|                 | LL04LU-DNxxL06     | 25.4 x 10.5   |                        | 15° 25° 40°                      |        |
|                 | LL04LU-DOxxL06     | 35 x 10.4     |                        | 15° 25° 40°                      |        |
| LL04OS-GKxxL06  | 37 x 9.8           | 40° 60° 80°   |                        |                                  |        |

| Type            | Part Number        | DxH(mm)             | Full Angle  | FWHM                    | Holder |
|-----------------|--------------------|---------------------|-------------|-------------------------|--------|
| 6 in 1          | LL06CR-AXNxxL06-M2 | 76 x 13             |             | 25°                     | V      |
|                 | LL06CR-RXxxL06     | 50 x 9.65           | 40° 60°     |                         |        |
|                 | LL06ED-ADxxL06     | 73.3 x 11.5         | 25° 40° 60° |                         |        |
|                 | LL06CR-AXMxxL06-M2 | 76 x 13             |             | 15° 25° 35°             | V      |
|                 | LL06CR-AXLxxL06-M2 | 76 x 13             |             | 25°                     | V      |
| 7 in 1          | LL07CR-RXxxL06     | 50 x 10.3           | 40° 60°     |                         |        |
|                 | LL07ED-UYxxL06     | 47 x 10.3           | 40°         |                         |        |
|                 | LL07OS-GKxxL06     | 47 x 9.8            | 40° 60° 80° |                         |        |
|                 | LL07ZZ-FUxxL06     | 50.35 x 10.7        | 15° 25°     |                         |        |
|                 | LL07ZZ-FVxxL06     | 39.2 x 10.6         | 15° 25°     |                         |        |
| 9 in 1          | LL09CR-RXxxL06     | 70 x 10.3           | 40° 60°     |                         |        |
|                 | LL09ED-UYxxL06     | 67 x 10.3           | 40°         |                         |        |
|                 | LL09OS-GKxxL06     | 67 x 9.8            | 40° 60° 80° |                         |        |
| 12 in 1         | LL12CR-RXxxL06     | 70 x 10.3           | 40° 60°     |                         |        |
|                 | LL12ED-AGxxL06     | 112 x 13.4          | 45°         |                         |        |
|                 | LL12ED-UYxxL06     | 67 x 10.3           | 40°         |                         |        |
|                 | LL12OS-GKxxL06     | 67 x 9.8            | 40° 60° 80° |                         |        |
| 24 in 1         | LL24ED-ABxxL06     | 174.5 x 12.7        | 45°         |                         |        |
| 36 in 1         | LL36ED-AAxxL06     | 140 x 12.6          | 45°         |                         |        |
| 60 in 1         | LL60ED-BOxxL06     | 180 x 13.1          | 45°         |                         |        |
| Street Lighting | LL01CR-APM80150L02 | 18 x 12.5 x 6.95    |             | 80°x150°<br>(Asymmetry) |        |
|                 | LL01CR-AU85135L02  | 18 x 10.2 x 6.1     |             | 85°x135°<br>(Asymmetry) |        |
|                 | LL01CR-FT60135L02  | 18 x 9.3 x 5.9      |             | 60°x135°<br>(Symmetry)  |        |
|                 | LL01CR-KM6090L02   | 17.55 x 11.6 x 8.6  |             | 60°x90°<br>(Symmetry)   |        |
|                 | LL01CR-OW70130L02  | 17.4 x 12.75 x 7.2  |             | 70°x130°<br>(Asymmetry) |        |
|                 | LL01OS-AU60140L02  | 16 x 5.3            |             | 60°x140°<br>(Asymmetry) |        |
|                 | LL24CR-AU75135L02  | 120 x 100 x 10.2    |             | 75°x135°<br>(Asymmetry) |        |
|                 | LL28CR-UI65140L14  | 259.2 x 79.7 x 12.2 |             | 65°x140°<br>(Asymmetry) |        |
|                 | LL30CR-PT60140L02  | 235 x 71 x 9.4      |             | 60°x140°<br>(Asymmetry) |        |



## Oslon 150°

| Type            | Part Number        | DxH(mm)      | Full Angle         | FWHM        | Holder | Type            | Part Number       | DxH(mm)            | Full Angle | FWHM                    | Holder |
|-----------------|--------------------|--------------|--------------------|-------------|--------|-----------------|-------------------|--------------------|------------|-------------------------|--------|
| Single          | LL01CR-BEXxL06     | 20.9 x 9.2   |                    | 25° 40° 60° |        | 9 in 1          | LL09ED-UYxxL06    | 67 x 10.3          | 40°        |                         |        |
|                 | LL01CR-BRxxL06     | 19.65 x 12.5 | 40° 15x50°         |             |        | 12 in 1         | LL12ED-AGxxL06    | 112 x 13.4         | 40°        |                         |        |
|                 | LL01OS-BDFxxL06-M2 | 13.5 x 7.35  | 25° 60° 80° 30x65° |             | V      |                 | LL12ED-BGxxL06    | 95 x 11.2          | 45°        |                         |        |
|                 | LL01CR-DGxxL06     | 28.8 x 16.65 | 30° 40° 60°        |             |        | 18 in 1         | LL12ED-UYxxL06    | 67 x 10.3          | 40°        |                         |        |
|                 | LL01CR-HQxxL06     | 14.8 x 9.5   | 40° 60°            |             |        |                 | LL18ED-BlxxL06    | 110 x 13.1         | 40°        |                         |        |
|                 | LL01CR-NExx06      | 19.4 x 15    | 25° 40° 60°        |             |        | Street Lighting | LL01CR-AU85135L02 | 18 x 10.2 x 6.1    |            | 85°x135°<br>(Asymmetry) |        |
|                 | LL01CR-OTxxL06     | 15 x 9.7     | 40° 60° 80°        |             |        |                 | LL01CR-OW70130L02 | 17.4 x 12.75 x 7.2 |            | 70°x130°<br>(Asymmetry) |        |
|                 | LL01ED-AJxxL06     | 28.9 x 19.7  | 25° 40° 60°        |             |        |                 | LL24CR-AU75135L02 | 120 x 100 x 10.2   |            | 75°x135°<br>(Asymmetry) |        |
|                 | LL01ED-AKxxL06     | 34.4 x 18.8  | 25° 40°            |             |        |                 |                   |                    |            |                         |        |
|                 | LL01ED-ASxxR06     | 19.9 x 10.55 | 38° 60°            |             |        |                 |                   |                    |            |                         |        |
|                 | LL01ED-BBxxL06     | 35.8 x 16.5  | 60°                |             |        |                 |                   |                    |            |                         |        |
|                 | LL01ED-CTxxL06     | 31 x 11.2    | 38°                |             |        |                 |                   |                    |            |                         |        |
|                 | LL01ED-CVxxL06     | 19.6 x 12.3  | 25°                |             |        |                 |                   |                    |            |                         |        |
|                 | LL01NI-ANExxL02    | 19.4 x 14.94 |                    | 10° 20° 30° |        |                 |                   |                    |            |                         |        |
|                 | LL01NI-GRxxL06     | 19.45 x 13.5 | 40°                |             |        |                 |                   |                    |            |                         |        |
|                 | LL01OS-AXxxL02     | 20 x 11.5    | 40°                |             |        |                 |                   |                    |            |                         |        |
|                 | LL01OS-BWxxL06     | 37.2 x 15.35 | 30°                |             |        |                 |                   |                    |            |                         |        |
|                 | LL01OS-BYxxL06     | 37.2 x 15.35 | 30°                |             |        |                 |                   |                    |            |                         |        |
|                 | LL01OS-EXxxL06-M2  | 22.4 x 9.7   | 25° 40° 30x65°     |             | V      |                 |                   |                    |            |                         |        |
|                 | LL01ZZ-FLxxL06     | 22.2 x 10.6  | 25° 40° 60° 30x65° |             |        |                 |                   |                    |            |                         |        |
| LL01ED-FMxxL06  | 19.9 x 10.55       | 38°          |                    |             |        |                 |                   |                    |            |                         |        |
| LL01OS-CBxxL06  | 25.6 x 10          | 15°          |                    |             |        |                 |                   |                    |            |                         |        |
| LL01ZZ-AHAXxL06 | 50 x 25.4          |              | 5°                 |             |        |                 |                   |                    |            |                         |        |
| 3 in 1          | LL03ED-CTxxL06     | 31 x 11.2    |                    |             |        |                 |                   |                    |            |                         |        |
|                 | LL03ED-UYxxL06     | 33.2 x 10.3  | 38°                |             |        |                 |                   |                    |            |                         |        |
|                 | LL03LU-DMxxL06     | 23.1 x 11    |                    | 40°         |        |                 |                   |                    |            |                         |        |
| 4 in 1          | LL03LU-DOxxL06     | 35 x 10.6    |                    | 25° 40°     |        |                 |                   |                    |            |                         |        |
|                 | LL04ED-UYxxL06     | 37 x 10.3    | 25° 40°            |             |        |                 |                   |                    |            |                         |        |
|                 | LL04LU-DNxxL06     | 25.4 x 10.5  | 40°                |             |        |                 |                   |                    |            |                         |        |
| 6 in 1          | LL04LU-DOxxL06     | 35 x 10.4    | 25° 40°            |             |        |                 |                   |                    |            |                         |        |
|                 | LL06CR-AXNxxL06-M2 | 76 x 13      |                    | 25°         | V      |                 |                   |                    |            |                         |        |
|                 | LL06ED-ADxxL06     | 73.3 x 11.5  | 25°                |             |        |                 |                   |                    |            |                         |        |
|                 | LL06CR-AXMxxL06-M2 | 76 x 13      |                    | 25°         | V      |                 |                   |                    |            |                         |        |
| 7 in 1          | LL06CR-AXLxxL06-M2 | 76 x 13      |                    | 25°         | V      |                 |                   |                    |            |                         |        |
|                 | LL07ED-UYxxL06     | 47 x 10.3    | 40°                |             |        |                 |                   |                    |            |                         |        |





Osram  
150°



Osram  
Square



■ Osram Square

| Type   | Part Number        | DxH(mm)      | Full Angle                           | FWHM        | Holder |
|--------|--------------------|--------------|--------------------------------------|-------------|--------|
| Single | LL01CR-ACZxxL02    | 27.8 x 10.2  |                                      | 24° 38°     |        |
|        | LL01OS-BDFxxL06-M2 | 13.5 x 7.35  | 40° 60°                              |             | V      |
|        | LL01CR-BEXxxL06    | 20.9 x 9.2   | 40° 60°                              |             |        |
|        | LL01CR-BMxxL06     | 35.8 x 15.85 | 40°                                  |             |        |
|        | LL01CR-BNExxL06    | 19.4 x 14.6  | 25° 40° 60° 35x70°                   |             |        |
|        | LL01CR-BRxxL06     | 19.65 x 12.5 | 40° 10x45° 15x50°<br>15x80° 40x90°   |             |        |
|        | LL01OS-BDFxL06-M2  | 11.8 x 6.65  | 40° 60° 80° 100° 30x65°              |             | V      |
|        | LL01CR-DGxxL06     | 28.8 x 16.75 | 20° 30° 40° 50° 60°                  |             |        |
|        | LL01CR-HQxxL06     | 14.8 x 9.6   | 30° 40° 60° 80°                      |             |        |
|        | LL01CR-NExxL06     | 19.4 x 15    | 15° 25° 40° 60° 80°<br>10x45° 25x45° |             |        |
|        | LL01CR-OTxxL06     | 15 x 9.7     | 80°                                  |             |        |
|        | LL01CR-SQxxL06     | 19.4 x 12.9  | 40° 60°                              |             |        |
|        | LL01CR-WLxxL02     | 28.8 x 17.4  |                                      | 25° 40°     |        |
|        | LL01CR-XSxxL06     | 22.2 x 10.6  | 40°                                  |             |        |
|        | LL01CR-YJxxL02     | 19.4 x 12.6  | 40° 60°                              |             |        |
|        | LL01CR-ZExxL02     | 35 x 20.4    |                                      | 20° 45°     |        |
|        | LL01ED-ACZxxL02    | 35 x 10.7    |                                      | 24° 38°     |        |
|        | LL01ED-AFDxxL06    | 26 x 15.3    |                                      | 20°         |        |
|        | LL01ED-AJxxL06     | 28.9 x 19.7  | 40° 60°                              |             |        |
|        | LL01ED-AKxxL06     | 34.4 x 18.8  | 25° 40°                              |             |        |
|        | LL01ED-ALxxL06     | 19.65 x 11.4 | 15° 30x65°                           |             |        |
|        | LL01ED-ANxxL06     | 22.7 x 9.6   | 15x50°                               |             |        |
|        | LL01ED-AOxxL06     | 19.4 x 13.45 | 60°                                  |             |        |
|        | LL01ED-ASxxR06     | 19.9 x 10.55 | 38°                                  |             |        |
|        | LL01ED-ASxxL06     | 19.9 x 10.15 | 60°                                  |             |        |
|        | LL01ED-CTxxL06     | 31 x 11.2    | 38°                                  |             |        |
|        | LL01ED-CYxxL06     | 26.8 x 18.9  | 30° 45° 30x65°                       |             |        |
|        | LL01OS-AFCxxL06-M2 | 19.4 x 11.8  | 15x60° 20x50°                        |             | V      |
|        | LL01OS-AAFxxL06-M2 | 13.5 x 7.35  |                                      | 25° 45° 60° | V      |
|        | LL01NI-ANExxL02    | 19.4 x 14.94 |                                      | 10° 20° 30° |        |

| Type           | Part Number        | DxH(mm)        | Full Angle             | FWHM        | Holder |  |
|----------------|--------------------|----------------|------------------------|-------------|--------|--|
|                | LL01NI-GRxxL06     | 19.45 x 13.5   | 40° 60° 80°            |             |        |  |
|                | LL01OS-AXxxL02     | 20 x 11.5      | 20° 40° 60°            |             |        |  |
|                | LL01OS-BWxxL06     | 37.2 x 15.35   | 30°                    |             |        |  |
|                | LL01OS-BYxxL06     | 37.2 x 15.35   | 30°                    |             |        |  |
|                | LL01OS-HGxxL06     | 10 x 6         | 40°                    |             |        |  |
|                | LL01OS-MQxxL06-M2  | 21.05 x 14.75  | 15° 25° 40° 60°        |             | V      |  |
|                | LL01OS-EXxxL06-M2  | 22.4 x 9.7     | 10° 25° 40° 60° 30x65° |             | V      |  |
|                | LL01ZZ-FLxxL06     | 24.3 x 11.5    | 10° 40° 60°            |             | V      |  |
|                | LL01CR-ADTxxL06    | 35 x 10.65     | 40°                    |             |        |  |
|                | LL01CR-FOxxL06     | 35.8 x 15.75   | 40°                    |             |        |  |
|                | LL01ED-FMxxL06     | 19.9 x 10.55   | 38°                    |             |        |  |
|                | LL01OS-CBxxL06     | 25.6 x 10      | 15°                    |             |        |  |
|                | 3 in 1             | LL03CR-RXxxL06 | 35 x 9.6               | 40° 60°     |        |  |
|                |                    | LL03ED-CTxxL06 | 31 x 11.2              | 38°         |        |  |
|                |                    | LL03ED-UYxxL06 | 33.2 x 10.3            | 40°         |        |  |
| LL03LU-DOxxL06 |                    | 35 x 10.6      |                        | 15° 25° 40° |        |  |
| LL03OS-GKxxL06 |                    | 33.2 x 9.8     | 25° 40° 60°            |             |        |  |
| LL03CR-CExxL06 |                    | 34 x 9.9       | 38°                    |             |        |  |
| 4 in 1         | LL03CR-HKxxL06     | 35 x 8.2       | 40°                    |             |        |  |
|                | LL04CR-RXxxL06     | 35 x 9.7       | 40° 60°                |             |        |  |
|                | LL04ED-UYxxL06     | 37 x 10.3      | 40°                    |             |        |  |
|                | LL04LU-DOxxL06     | 35 x 10.4      |                        | 15° 25° 40° |        |  |
| 6 in 1         | LL04OS-GKxxL06     | 37 x 9.8       | 40° 60°                |             |        |  |
|                | LL06CR-AXNxxL06-M2 | 76 x 13        |                        | 25°         | V      |  |
|                | LL06CR-RXxxL06     | 50 x 9.65      | 40° 60°                |             |        |  |
|                | LL06ED-ADxxL06     | 73.3 x 11.5    | 25° 40° 60°            |             |        |  |
|                | LL06CR-AXMxxL06-M2 | 76 x 13        |                        | 25°         | V      |  |
|                | LL06ED-BExxL06     | 43.9 x 8.6     | 25°                    |             |        |  |
| 7 in 1         | LL06CR-AXLxxL06-M2 | 76 x 13        |                        | 25°         | V      |  |
|                | LL07CR-RXxxL06     | 50 x 10.3      | 40° 60°                |             |        |  |
|                | LL07ED-UYxxL06     | 47 x 10.3      | 40°                    |             |        |  |
|                | LL07OS-GKxxL06     | 47 x 9.8       | 40° 60°                |             |        |  |
| LL07ZZ-FUxxL06 | 50.35 x 10.7       | 15° 25°        |                        |             |        |  |

■ **Oslon Square**

| Type            | Part Number        | DxH(mm)             | Full Angle | FWHM                    | Holder |
|-----------------|--------------------|---------------------|------------|-------------------------|--------|
| 9 in 1          | LL09CR-RXxxL06     | 70 x 10.3           | 40° 60°    |                         |        |
|                 | LL09ED-BZxxL06     | 90.75 x 16.5        | 25°        |                         |        |
|                 | LL09ED-UYxxL06     | 67 x 10.3           | 40°        |                         |        |
|                 | LL09OS-GKxxL06     | 67 x 9.8            | 40° 60°    |                         |        |
| 12 in 1         | LL12CR-RXxxL06     | 70 x 10.3           | 40° 60°    |                         |        |
|                 | LL12ED-UYxxL06     | 67 x 10.3           | 40°        |                         |        |
|                 | LL12OS-GKxxL06     | 67 x 9.8            | 40° 60°    |                         |        |
| Street Lighting | LL01CR-APM80150L02 | 18 x 12.5 x 6.95    |            | 80°x150°<br>(Asymmetry) |        |
|                 | LL01CR-AU85135L02  | 18 x 10.2 x 6.1     |            | 85°x135°<br>(Asymmetry) |        |
|                 | LL01CR-FT60135L02  | 18 x 9.3 x 5.9      |            | 60°x135°<br>(Symmetry)  |        |
|                 | LL01CR-KM6090L02   | 17.55 x 11.6 x 8.6  |            | 60°x90°<br>(Symmetry)   |        |
|                 | LL01CR-OG85150L02  | 18 x 8.95 x 6.2     |            | 85°x150°<br>(Symmetry)  |        |
|                 | LL01CR-OW70130L02  | 17.4 x 12.75 x 7.2  |            | 70°x130°<br>(Asymmetry) |        |
|                 | LL01LU-AEV50150L02 | 18 x 12.5 x 6.3     |            | 50°x150°<br>(Asymmetry) |        |
|                 | LL24CR-AU75135L02  | 120 x 100 x 10.2    |            | 75°x135°<br>(Asymmetry) |        |
|                 | LL28CR-UI65140L14  | 259.2 x 79.7 x 12.2 |            | 65°x140°<br>(Asymmetry) |        |
|                 | LL30CR-PT60140L02  | 235 x 71 x 9.4      |            | 60°x140°<br>(Asymmetry) |        |

■ **W5AM**

| Type            | Part Number       | DxH(mm)           | Full Angle  | FWHM                    | Holder |
|-----------------|-------------------|-------------------|-------------|-------------------------|--------|
| Single          | LL01OS-AXxxL02-M2 | 21.5 x 13.35      | 20° 40° 60° |                         | V      |
|                 | LL01OS-BWxxL06    | 37.2 x 15.35      | 30°         |                         |        |
|                 | LL01OS-BYxxL06    | 37.2 x 15.35      | 30°         |                         |        |
| Street Lighting | LL01OS-AU60130L02 | 30.1 x 14.3 x 8.5 |             | 60°x130°<br>(Symmetry)  |        |
|                 | LL01OS-EL85135L02 | 20.3 x 12.7 x 7.4 |             | 85°x135°<br>(Asymmetry) |        |

■ **OSTAR**

| Type            | Part Number        | DxH(mm)            | Full Angle      | FWHM                    | Holder |
|-----------------|--------------------|--------------------|-----------------|-------------------------|--------|
| Single          | LL01CR-ABGxxL02    | 34 x 15.7          |                 | 24° 55°                 |        |
|                 | LL01CR-ACZxxL02    | 27.8 x 10.2        |                 | 24°                     |        |
|                 | LL01CR-DGxxL06     | 28.8 x 16.75       | 30° 40° 50° 60° |                         |        |
|                 | LL01CR-NExxL06     | 19.4 x 14.9        | 80°             |                         |        |
|                 | LL01CR-PVxxL02     | 45 x 23.7          | 45° 60° 80°     |                         |        |
|                 | LL01CR-SQxxL06     | 19.4 x 12.9        | 40° 60°         |                         |        |
|                 | LL01CR-WbxxL02     | 28.8 x 17.4        |                 | 25° 40°                 |        |
|                 | LL01CR-XSxxL06     | 22.2 x 10.6        | 40°             |                         |        |
|                 | LL01CR-YJxxL02     | 19.4 x 12.7        | 40° 100°        |                         |        |
|                 | LL01CR-ZExxL02     | 35 x 20.4          |                 | 20° 45°                 |        |
|                 | LL01ED-ACZxxL02    | 35 x 10.7          |                 | 24° 38°                 |        |
|                 | LL01ED-AJxxL06     | 28.9 x 19.7        | 25° 40° 60°     |                         |        |
|                 | LL01ED-AKxxL06     | 34.4 x 18.8        | 25° 40°         |                         |        |
|                 | LL01ED-AOxxL06     | 19.4 x 13.45       | 60°             |                         |        |
|                 | LL01ED-AQxxL06     | 22.5 x 10.5        | 60°             |                         |        |
|                 | LL01ED-ASxxR06     | 19.9 x 10.55       | 38° 60°         |                         |        |
|                 | LL01ED-BBxxL06     | 35.8 x 16.5        | 60°             |                         |        |
|                 | LL01ED-CYxxL06     | 26.8 x 18.9        | 30° 45°         |                         |        |
|                 | LL01NI-GRxxL06     | 19.45 x 13.5       | 40° 60° 80°     |                         |        |
|                 | LL01OS-AXxxL02     | 20 x 11.5          | 40° 60°         |                         |        |
|                 | LL01OS-BWxxL06     | 37.2 x 15.35       | 30°             |                         |        |
|                 | LL01OS-BYxxL06     | 37.2 x 15.35       | 30°             |                         |        |
|                 | LL01ZZ-AFLxxL02    | 22.2 x 10.4        |                 | 35°                     |        |
|                 | LL01ZZ-AHZxxL02    | 22.2 x 10.6        |                 | 38°                     |        |
|                 | LL01ZZ-FLxxL06     | 22.2 x 10.6        | 25° 40° 60°     |                         |        |
|                 | LL01CR-ADTxxL06    | 35 x 10.65         | 40°             |                         |        |
|                 | LL01OS-CBxxL06     | 25.6 x 10          | 15°             |                         |        |
|                 | 3 in 1             | LL03CR-AZxxL06     | 50 x 14.5       | 45°                     |        |
| Street Lighting | LL01CR-DL90120L02  | 26 x 15.8 x 9.15   |                 | 90°x120°<br>(Asymmetry) |        |
|                 | LL01CR-OW70130L02  | 17.4 x 12.75 x 7.2 |                 | 70°x130°<br>(Asymmetry) |        |
|                 | LL01CR-XW70140L02  | 32 x 17.6 x 9.8    |                 | 70°x140°<br>(Asymmetry) |        |
|                 | LL01LU-AGV80150L02 | 32 x 18.5 x 9.5    |                 | 80°x150°<br>(Asymmetry) |        |



Oslon Square



OSTAR



W5AM



NVS19A

| Type           | Part Number        | DxH(mm)      | Full Angle                           | FWHM        | Holder            | Type             | Part Number        | DxH(mm)            | Full Angle              | FWHM        | Holder                  |   |
|----------------|--------------------|--------------|--------------------------------------|-------------|-------------------|------------------|--------------------|--------------------|-------------------------|-------------|-------------------------|---|
| Single         | LL01CR-BRxxL06     | 19.65 x 12.5 | 10x45° 15x50° 15x80°<br>40x90°       |             |                   | Street Lighting  | LL04LU-DOxxL06     | 35 x 10.4          |                         | 15° 25°     |                         |   |
|                | LL01CR-B\$xxL06    | 19.8 x 12.5  | 60°                                  |             |                   |                  | 4 in 1             | LL04LU-GPxxL06     | 22.2 x 6.8              | 45°         |                         |   |
|                | LL01HS-DFxxL02-M2  | 13.5 x 7.35  | 80° 100° 30x65°                      |             | V                 |                  |                    | LL04OS-GKxxL06     | 37 x 9.8                | 40° 60° 80° |                         |   |
|                | LL01XP-DGxxL06-M2  | 32.8 x 18    | 20° 30° 40° 50° 60°                  |             | V                 |                  | 6 in 1             | LL06CR-AXNxL06-M2  | 76 x 13                 |             | 25°                     | V |
|                | LL01CR-HQxxL06     | 14.8 x 9.5   | 15° 40° 60° 80°                      |             |                   |                  |                    | LL06ED-ADxxL06     | 73.3 x 11.5             | 25° 40° 60° |                         |   |
|                | LL01CR-CNExxL06-M2 | 23.5 x 15.8  | 17° 25° 40° 60° 80°<br>10x45° 25x45° |             | V                 |                  |                    | LL06CR-AXMxxL06-M2 | 76 x 13                 |             | 25°                     | V |
|                | LL01CR-SQxxL06     | 19.4 x 12.9  | 40° 60°                              |             |                   |                  | LL06CR-AXLxxL06-M2 | 76 x 13            |                         | 25°         | V                       |   |
|                | LL01ED-AJxxL06     | 28.9 x 19.7  | 40° 60°                              |             |                   |                  | 7 in 1             | LL07ED-GKxxL06     | 47 x 10.5               | 40°         |                         |   |
|                | LL01ED-AKxxL06     | 34.4 x 18.8  | 25° 40°                              |             |                   |                  |                    | LL07OS-GKxxL06     | 47 x 9.8                | 40° 60° 80° |                         |   |
|                | LL01ED-AQxxL06     | 22.5 x 10.45 | 40°                                  |             |                   |                  |                    | LL07ZZ-FUxxL06     | 50.35 x 10.7            | 25°         |                         |   |
|                | LL01ED-ASxxL06     | 19.9 x 10.15 | 60°                                  |             |                   |                  | LL07ZZ-FVxxL06     | 39.2 x 10.6        | 25° 30° 60°             |             |                         |   |
|                | LL01ED-BBxxL06     | 35.8 x 16.5  | 60°                                  |             |                   |                  | 9 in 1             | LL09ED-BZxxL06     | 90.75 x 16.5            | 25°         |                         |   |
|                | LL01ED-CTxxL06     | 31 x 11.2    | 38°                                  |             |                   |                  |                    | LL09ED-GKxxL06     | 67 x 10.8               | 40°         |                         |   |
|                | LL01ED-CYxxL06     | 26.8 x 18.9  | 30° 45°                              |             |                   |                  |                    | LL09OS-GKxxL06     | 67 x 9.8                | 40° 60° 80° |                         |   |
|                | LL01CR-AFCxxL06-M2 | 21.3 x 12.4  | 15x60° 20x50°                        |             | V                 |                  | LL09ED-ATxxL06     | 90.6 x 17.5        | 40°                     |             |                         |   |
|                | LL01HS-AAFxxL02-M2 | 13.5 x 7.35  |                                      | 25° 45° 60° | V                 |                  | 12 in 1            | LL12ED-AGxxL06     | 112 x 13.4              | 45°         |                         |   |
|                | LL01NI-ANExxL02-M2 | 23.5 x 15.8  |                                      | 10° 20° 30° | V                 |                  |                    | LL12ED-GKxxL06     | 67 x 10.8               | 40°         |                         |   |
|                | LL01NI-GRxxL06     | 19.45 x 13.5 | 40° 60° 80°                          |             |                   |                  |                    | LL12OS-GKxxL06     | 67 x 9.8                | 40° 60° 80° |                         |   |
|                | LL01OS-AXxxL02     | 20 x 11.5    | 40° 60°                              |             |                   |                  | 15 in 1            | LL15ED-BHxxL06     | 95 x 11.1               | 40°         |                         |   |
|                | LL01OS-BWxxL06     | 37.2 x 15.35 | 30°                                  |             |                   |                  | 18 in 1            | LL18ED-BlxxL06     | 110 x 13.1              | 40°         |                         |   |
|                | LL01OS-BYxxL06     | 37.2 x 15.35 | 30°                                  |             |                   |                  | 24 in 1            | LL24ED-ABxxL06     | 174.5 x 12.7            | 45°         |                         |   |
|                | LL01OS-MQxxL06     | 19.45 x 13.7 | 40°                                  |             |                   |                  | 36 in 1            | LL36ED-AAxxL06     | 140 x 12.6              | 45°         |                         |   |
|                | LL01CR-EXxxL06-M2  | 22.4 x 9.7   | 10° 25° 40° 60° 30x65°               |             | V                 |                  | Street Lighting    | LL01CR-APM80150L02 | 18 x 12.5 x 6.95        |             | 80°x150°<br>(Asymmetry) |   |
|                | LL01XP-FLxxL06-M2  | 24.3 x 11.5  | 25° 40° 30x65°                       |             | V                 |                  |                    | LL01CR-AU85135L02  | 18 x 10.2 x 6.1         |             | 85°x135°<br>(Asymmetry) |   |
|                | LL01ED-FMxxL06     | 19.9 x 10.55 | 38°                                  |             |                   |                  |                    | LL01CR-FT60135L02  | 18 x 9.3 x 5.9          |             | 60°x135°<br>(Symmetry)  |   |
|                | LL01LU-AAxxL06     | 19.7 x 13.8  | 20°x65°                              |             |                   |                  |                    | LL01CR-KM6090L02   | 17.55 x 11.6 x 8.6      |             | 60°x90°<br>(Symmetry)   |   |
|                | LL01OS-CBxxL06     | 25.6 x 10    | 15°                                  |             |                   |                  |                    | LL01CR-OW70130L02  | 17.4 x 12.75 x 7.2      |             | 70°x130°<br>(Asymmetry) |   |
|                | LL01ZZ-AHAxxL06    | 50 x 25.4    |                                      | 5°          |                   |                  |                    | LL01LU-AIK45135L02 | 18 x 12.5 x 7.05        |             | 45°x135°<br>(Asymmetry) |   |
|                | LL03ED-BAxxL06     | 50.5 x 13    | 45°                                  |             |                   |                  |                    | LL01OS-AU60130L02  | 30.1 x 14.3 x 8.5       |             | 60°x130°<br>(Symmetry)  |   |
|                | LL03ED-GKxxL06     | 33.2 x 10.2  | 40°                                  |             |                   |                  |                    | LL01ZZ-AGX45155L02 | 18 x 12.5 x 7           |             | 45°x155°<br>(Asymmetry) |   |
| LL03LU-DMxxL06 | 23.1 x 11          |              | 15° 25°                              |             | LL12ED-VT85160L02 | 158 x 50 x 9.4   |                    |                    | 85°x160°<br>(Asymmetry) |             |                         |   |
| LL03LU-DOxxL06 | 35 x 10.6          |              | 15° 25°                              |             | LL24CR-AU75135L02 | 120 x 100 x 10.2 |                    |                    | 75°x135°<br>(Asymmetry) |             |                         |   |
| LL03LU-MKxxL06 | 23.1 x 11          | 15° 25°      |                                      |             |                   |                  |                    |                    |                         |             |                         |   |
| LL03NI-QQxxL06 | 35 x 10.5          | 25°          |                                      |             |                   |                  |                    |                    |                         |             |                         |   |
| LL03OS-GKxxL06 | 33.2 x 9.8         | 25° 60° 80°  |                                      |             |                   |                  |                    |                    |                         |             |                         |   |
| LL04CR-GPxxL06 | 22.2 x 6.7         | 38°          |                                      |             |                   |                  |                    |                    |                         |             |                         |   |
| LL04ED-GKxxL06 | 37 x 10.3          | 40°          |                                      |             |                   |                  |                    |                    |                         |             |                         |   |
| LL04LU-DNxxL06 | 25.4 x 10.5        |              | 15° 25°                              |             |                   |                  |                    |                    |                         |             |                         |   |



NVS19A



# NCS19A

| Type           | Part Number        | DxH(mm)      | Full Angle                             | FWHM        | Holder |
|----------------|--------------------|--------------|--|-------------|--------|
| Single         | LL01CR-BRxxL06     | 19.65 x 12.5 | 40° 10°x45° 15°x50°<br>15°x80° 40°x90° |             |        |
|                | LL01HS-DFxxL02-M2  | 13.5 x 7.35  | 80° 100° 30°x65°                       |             | V      |
|                | LL01CR-DGxxL06     | 28.8 x 16.75 | 20° 30° 40° 50° 60°                    |             |        |
|                | LL01CR-HQxxL06     | 14.8 x 9.6   | 15° 25° 30° 40° 60° 80°                |             |        |
|                | LL01CR-CNExxL06-M2 | 23.5 x 15.8  | 17° 25° 40° 60° 80°<br>25°x45°         |             | V      |
|                | LL01CR-SQxxL06     | 19.4 x 12.9  | 40° 60°                                |             |        |
|                | LL01CR-YJxxL02     | 19.4 x 12.6  | 40° 60° 80°                            |             |        |
|                | LL01ED-AJxxL06     | 28.9 x 19.7  | 40° 60°                                |             |        |
|                | LL01ED-AKxxL06     | 34.4 x 18.8  | 40°                                    |             |        |
|                | LL01ED-ASxxL06     | 19.9 x 10.15 | 60°                                    |             |        |
|                | LL01ED-BBxxL06     | 35.8 x 16.5  | 60°                                    |             |        |
|                | LL01ED-CTxxL06     | 31 x 11.2    | 38°                                    |             |        |
|                | LL01CR-AFCxxL06-M2 | 21.3 x 12.4  | 15°x60°                                |             | V      |
|                | LL01HS-AAFxxL02-M2 | 13.5 x 7.35  |  | 25°         | V      |
|                | LL01RP-AAFxxL02-M2 | 13.5 x 7.35  |  | 45° 60°     | V      |
|                | LL01NI-ANExxL02-M2 | 23.5 x 15.8  |  | 10° 20° 30° | V      |
|                | LL01OS-AXxxL02     | 20 x 11.5    | 40° 60°                                |             |        |
|                | LL01OS-MQxxL06     | 19.45 x 13.7 | 40° 60°                                |             |        |
|                | LL01ZZ-EXxxL06     | 21 x 9.15    | 10° 25° 40° 60° 30°x65°                |             |        |
|                | LL01ZZ-FLxxL06     | 22.2 x 10.6  | 25° 40° 60°                            |             |        |
| LL01ED-FMxxL06 | 19.9 x 10.55       | 35°          |  |             |        |
| LL01ZZ-AHxxL06 | 50 x 25.4          |              | 5°                                     |             |        |
| 3 in 1         | LL03CR-RXxxL06     | 35 x 9.6     | 40° 60°                                |             |        |
|                | LL03ED-BAxxL06     | 50.5 x 13    | 45°                                    |             |        |
|                | LL03ED-GKxxL06     | 33.2 x 10.2  | 40°                                    |             |        |
|                | LL03ED-UYxxL06     | 33.2 x 10.3  | 40°                                    |             |        |
|                | LL03LU-DMxxL06     | 23.1 x 11    |  | 15° 25°     |        |
| LL03LU-DOxxL06 | 35 x 10.6          |              | 15° 25°                                |             |        |
| LL03LU-MKxxL06 | 23.1 x 11          |              | 15° 25°                                |             |        |
| LL03NI-QQxxL06 | 35 x 10.5          |              | 25°                                    |             |        |
| LL03OS-GKxxL06 | 33.2 x 9.8         |              | 25° 60° 80°                            |             |        |
| 4 in 1         | LL04CR-RXxxL06     | 35 x 9.7     |  | 40° 60°     |        |
|                | LL04ED-GKxxL06     | 37 x 10.3    |  | 40°         |        |
|                | LL04ED-UYxxL06     | 37 x 10.3    |  | 40°         |        |
|                | LL04LU-DNxxL06     | 25.4 x 10.5  |  | 15° 25°     |        |
|                | LL04LU-DOxxL06     | 35 x 10.4    |  | 15° 25°     |        |
| LL04OS-GKxxL06 | 37 x 9.8           |              | 40° 60° 80°                            |             |        |

| Type               | Part Number        | DxH(mm)            | Full Angle              | FWHM                    | Holder |
|--------------------|--------------------|--------------------|-------------------------|-------------------------|--------|
| 6 in 1             | LL06CR-RXxxL06     | 50 x 9.65          | 40° 60°                 |                         |        |
|                    | LL06ED-ADxxL06     | 73.3 x 11.5        | 25° 40° 60°             |                         |        |
|                    | LL06CR-AXMxxL06-M2 | 76 x 13            |                         | 15° 25°                 | V      |
|                    | LL06CR-AXLxxL06-M2 | 76 x 13            |                         | 25°                     | V      |
| 7 in 1             | LL07CR-RXxxL06     | 50 x 10.3          | 40° 60°                 |                         |        |
|                    | LL07ED-GKxxL06     | 47 x 10.5          | 40°                     |                         |        |
|                    | LL07ED-UYxxL06     | 47 x 10.3          | 40°                     |                         |        |
|                    | LL07OS-GKxxL06     | 47 x 9.8           | 40° 60° 80°             |                         |        |
|                    | LL07ZZ-FUxxL06     | 50.35 x 10.7       |                         | 25°                     |        |
| LL07ZZ-FVxxL06     | 39.2 x 10.8        | 30° 60°            | 25°                     |                         |        |
| 9 in 1             | LL09CR-RXxxL06     | 70 x 10.3          | 40° 60°                 |                         |        |
|                    | LL09ED-GKxxL06     | 67 x 10.8          | 40°                     |                         |        |
|                    | LL09ED-UYxxL06     | 67 x 10.3          | 40°                     |                         |        |
|                    | LL09OS-GKxxL06     | 67 x 9.8           | 40° 60° 80°             |                         |        |
| 12 in 1            | LL09ED-ATxxL06     | 90.6 x 17.5        | 40°                     |                         |        |
|                    | LL12CR-RXxxL06     | 70 x 10.3          | 40° 60°                 |                         |        |
|                    | LL12ED-AGxxL06     | 112 x 13.4         | 25°                     |                         |        |
|                    | LL12ED-GKxxL06     | 67 x 10.8          | 40°                     |                         |        |
|                    | LL12ED-UYxxL06     | 67 x 10.3          | 40°                     |                         |        |
| LL12OS-GKxxL06     | 67 x 9.8           | 40° 60° 80°        |                         |                         |        |
| 15 in 1            | LL15ED-BHxxL06     | 95 x 11.1          | 40°                     |                         |        |
| 18 in 1            | LL18ED-BbxxL06     | 110 x 13.1         | 25° 40°                 |                         |        |
| 24 in 1            | LL24ED-ABxxL06     | 174.5 x 12.7       | 45°                     |                         |        |
| Street Lighting    | LL01CR-AU85135L02  | 18 x 10.2 x 6.1    |                         | 85°x135°<br>(Asymmetry) |        |
|                    | LL01CR-FT60135L02  | 18 x 9.3 x 5.9     |                         | 60°x135°<br>(Symmetry)  |        |
|                    | LL01CR-KM6090L02   | 17.55 x 11.6 x 8.6 |                         | 60°x90°<br>(Symmetry)   |        |
|                    | LL01CR-OW70130L02  | 17.4 x 12.75 x 7.2 |                         | 70°x130°<br>(Asymmetry) |        |
|                    | LL01LU-AIK45135L02 | 18 x 12.5 x 7.05   |                         | 45°x135°<br>(Asymmetry) |        |
|                    | LL01OS-AU60130L02  | 30.1 x 14.3 x 8.5  |                         | 60°x130°<br>(Symmetry)  |        |
| LL01ZZ-AGX45155L02 | 18 x 12.5 x 7      |                    | 45°x155°<br>(Asymmetry) |                         |        |
| LL24CR-AU75135L02  | 120 x 100 x 10.2   |                    | 75°x135°<br>(Asymmetry) |                         |        |



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■ 757A

| Type           | Part Number        | DxH(mm)        | Full Angle                 | FWHM        | Holder |
|----------------|--------------------|----------------|----------------------------|-------------|--------|
| Single         | LL01CR-ABGxxL02    | 34 x 15.7      |                            | 24°         |        |
|                | LL01OS-BDFxxL06-M2 | 13.5 x 7.35    | 40° 60° 80° 100°<br>30x65° |             | V      |
|                | LL01CR-DGxxL06     | 28.8 x 16.75   | 20° 30° 40° 50°            |             |        |
|                | LL01CR-NExxL06     | 19.4 x 15      | 17° 40° 60° 80°<br>10x45°  |             |        |
|                | LL01CR-WlxxL02     | 28.8 x 17.4    |                            | 25° 40°     |        |
|                | LL01ED-AJxxL06     | 28.9 x 19.7    | 25° 40° 60°                |             |        |
|                | LL01ED-AKxxL06     | 34.4 x 18.8    | 40°                        |             |        |
|                | LL01ED-ALxxL06     | 19.7 x 9.9     | 30x65°                     |             |        |
|                | LL01ED-AOxxL06     | 19.4 x 13.5    | 40° 60° 80°                |             |        |
|                | LL01OS-AFCxxL06-M2 | 21.3 x 12.4    | 15x60° 20x50°              |             | V      |
|                | LL01OS-AAFxxL02-M2 | 11.8 x 6.65    |                            | 25° 45° 60° |        |
|                | LL01NI-GRxxL06     | 19.45 x 13.5   | 40° 60° 80°                |             |        |
|                | LL01OS-MQxxL06-M2  | 21.05 x 14.75  | 25° 40° 60°                |             | V      |
|                | LL01OS-EXxxL06-M2  | 22.4 x 9.7     | 25° 40°                    |             | V      |
|                | LL01ZZ-FLxxL06     | 22.2 x 10.6    | 25° 40° 60°                |             |        |
|                | 3 in 1             | LL01LU-AAxxL06 | 19.7 x 13.8                | 20°x65°     |        |
| LL01NI-DZxxL06 |                    | 22 x 15.7      | 20°x40°                    |             |        |
| LL03CR-RXxxL06 |                    | 35 x 9.6       | 60°                        |             |        |
| LL03ED-BCxxL06 |                    | 43.9 x 9.5     | 25°                        |             |        |
| LL03ED-CTxxL06 |                    | 31 x 11.2      | 38° 80°                    |             |        |
| LL03ED-GKxxL06 |                    | 33.2 x 10.2    | 40° 60° 80°                |             |        |
| LL03CR-HKxxL06 |                    | 35 x 8.2       | 40°                        |             |        |
| LL03ZZ-EUxxL06 |                    | 33 x 6.9       | 38°                        |             |        |
| LL03LU-DOxxL06 |                    | 35 x 10.6      | 15° 25° 40°                |             |        |
| LL03LU-DMxxL06 |                    | 23.1x11        | 15° 25° 40°                |             |        |
| 4 in 1         | LL04CR-GPxxL06     | 22.2 x 6.7     | 38°                        |             |        |
|                | LL04CR-RXxxL06     | 35 x 9.7       | 60°                        |             |        |
|                | LL04ED-GKxxL06     | 37 x 10.3      | 40°                        |             |        |
|                | LL04LU-DNxxL06     | 25.4 x 10.5    | 25°                        |             |        |
|                | LL04LU-GPxxL06     | 22.2 x 6.8     | 15°                        |             |        |
|                | LL04NI-DOxxL02     | 35 x 10.5      | 25° 40°                    |             |        |
| 5 in 1         | LL04OS-GKxxL06     | 37 x 9.8       | 60° 80°                    |             |        |
|                | LL05CR-BFRxxL06    | 35.8 x 6.3     |                            | 25° 40° 60° |        |
| 6 in 1         | LL06CR-RXxxL06     | 50 x 9.65      | 60°                        |             |        |
|                | LL06ED-ADxxL06     | 73.3 x 11.5    | 25° 40°                    |             |        |
| 7 in 1         | LL06CR-AXMxxL06-M2 | 76 x 13        |                            | 15° 25°     | V      |
|                | LL07CR-BFRxxL06    | 35.8 x 6.3     |                            | 25° 40° 60° |        |
|                | LL07CR-RXxxL06     | 50 x 10.3      | 60°                        |             |        |
|                | LL07ED-GKxxL06     | 47 x 10.5      | 40°                        |             |        |
|                | LL07OS-GKxxL06     | 67 x 9.8       | 60° 80°                    |             |        |
| 9 in 1         | LL09CR-RXxxL06     | 70 x 10.3      | 60°                        |             |        |
|                | LL09ED-GKxxL06     | 67 x 10.8      | 40°                        |             |        |
|                | LL09OS-GKxxL06     | 67 x 9.8       | 60° 80°                    |             |        |

| Type            | Part Number       | DxH(mm)            | Full Angle | FWHM                    | Holder |
|-----------------|-------------------|--------------------|------------|-------------------------|--------|
| 12 in 1         | LL12CR-RXxxL06    | 70 x 10.3          | 60°        |                         |        |
|                 | LL12ED-GKxxL06    | 67 x 10.8          | 40°        |                         |        |
|                 | LL12OS-GKxxL06    | 67 x 9.8           | 60° 80°    |                         |        |
| 15 in 1         | LL15ED-BHxxL06    | 95 x 11.1          | 40°        |                         |        |
| 18 in 1         | LL18ED-BLxxL06    | 110 x 13.1         | 40°        |                         |        |
| 24 in 1         | LL24ED-ABxxL06    | 174.5 x 12.7       | 45°        |                         |        |
| Street Lighting | LL01CR-KM6090L02  | 17.55 x 11.6 x 8.6 |            | 60°x90°<br>(Symmetry)   |        |
|                 | LL01CR-OW70130L02 | 17.4 x 12.75 x 7.2 |            | 70°x130°<br>(Asymmetry) |        |

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| Type            | Part Number        | DxH(mm)             | Full Angle         | FWHM                    | Holder |
|-----------------|--------------------|---------------------|--------------------|-------------------------|--------|
| Single          | LL01CR-DGxxL06     | 28.8 x 16.75        | 30° 40° 50° 60°    |                         |        |
|                 | LL01CR-SQxxL06     | 19.4 x 12.9         | 60° 80°            |                         |        |
|                 | LL01CR-WlxxL02     | 28.8 x 17.4         |                    | 25° 40°                 |        |
|                 | LL01CR-XSxxL06     | 22.2 x 10.6         |                    | 40°                     |        |
|                 | LL01CR-YJxxL02     | 19.4 x 12.7         | 60° 80° 100°       |                         |        |
|                 | LL01CR-ZExxL02     | 35 x 20.4           |                    | 40°                     |        |
|                 | LL01ED-AJxxL06     | 28.9 x 19.7         | 40°                |                         |        |
|                 | LL01ED-AKxxL06     | 34.4 x 18.8         | 40°                |                         |        |
|                 | LL01ED-BBxxL06     | 35.8 x 16.5         | 60°                |                         |        |
|                 | LL01NI-GRxxL06     | 19.45 x 13.5        | 60° 80°            |                         |        |
|                 | LL01OS-BWxxL06     | 37.2 x 15.35        | 30°                |                         |        |
|                 | LL01OS-BYxxL06     | 37.2 x 15.35        | 30°                |                         |        |
|                 | LL01ZZ-AFLxxL02    | 22.2 x 10.4         |                    | 35°                     |        |
|                 | LL01ZZ-AHZxxL02    | 22.2 x 10.6         |                    | 38°                     |        |
|                 | LL01ZZ-EXxxL06     | 21 x 9.3            | 25° 40° 60° 30x65° |                         |        |
|                 | 3 in 1             | LL03CR-HKxxL06      | 35 x 8.2           | 40°                     |        |
| 6 in 1          | LL06CR-AXNxxL06-M2 | 76 x 13             |                    | 25°                     | V      |
|                 | LL06CR-AXMxxL06-M2 | 76 x 13             |                    | 25°                     | V      |
| 12 in 1         | LL12ED-AGxxL06     | 112 x 13.4          | 45°                |                         |        |
| Street Lighting | LL01CR-OW70130L02  | 17.4 x 12.75 x 7.2  |                    | 70°x130°<br>(Asymmetry) |        |
|                 | LL01CR-XW70140L02  | 32 x 17.6 x 9.8     |                    | 70°x140°<br>(Asymmetry) |        |
|                 | LL01LU-AGV80150L02 | 32 x 18.5 x 9.5     |                    | 80°x150°<br>(Asymmetry) |        |
|                 | LL28CR-UI65140L14  | 259.2 x 79.7 x 12.2 |                    | 65°x140°<br>(Asymmetry) |        |
|                 | LL30CR-PT60140L02  | 235 x 71 x 9.4      |                    | 60°x140°<br>(Asymmetry) |        |



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757A





183A



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■ 183A

| Type            | Part Number       | DxH(mm)            | Full Angle      | FWHM                   | Holder  |
|-----------------|-------------------|--------------------|-----------------|------------------------|---------|
| Single          | LL01CR-BRxxL06    | 19.65 x 12.5       | 40° 50°         |                        |         |
|                 | LL01CR-DGxxL06    | 28.8 x 16.65       | 30° 40° 60°     |                        |         |
|                 | LL01ED-AJxxL06    | 28.9 x 19.7        | 25° 40° 60°     |                        |         |
|                 | LL01ED-AKxxL06    | 34.4 x 18.8        | 25° 40°         |                        |         |
|                 | LL01ED-AQxxL06    | 22.5 x 10.5        | 40° 60°         |                        |         |
|                 | LL01ED-ASxxL06    | 19.9 x 10.15       | 60°             |                        |         |
|                 | LL01ED-BBxxL06    | 35.8 x 16.5        | 60°             |                        |         |
|                 | LL01ED-CTxxL06    | 31 x 11.2          | 80°             |                        |         |
|                 | LL01ED-CVxxL06    | 19.6 x 12.3        | 25° 45°         |                        |         |
|                 | LL01NI-GRxxL06-M2 | 23.5 x 14.9        | 40° 60° 80°     |                        | V       |
|                 | LL01OS-AXxxL02    | 20 x 11.5          | 40° 60°         |                        |         |
|                 | LL01OS-BWxxL06    | 37.2 x 15.35       | 30°             |                        |         |
|                 | LL01OS-BYxxL06    | 37.2 x 15.35       | 30°             |                        |         |
|                 | LL01ZZ-EXxxL06    | 21 x 9.3           | 25° 40°         |                        |         |
|                 | LL01ZZ-FLxxL06    | 22.2 x 10.6        | 25° 40° 30°x65° |                        |         |
|                 | LL01ED-FMxxL06    | 19.9 x 10.55       | 38°             |                        |         |
|                 | LL01OS-CBxxL06    | 25.6 x 10          | 15°             |                        |         |
|                 | Single            | LL01NI-AAFxxL02-M2 | 13.5 x 7.35     |                        | 45° 60° |
| LL01NI-ANExxL02 |                   | 19.4 x 14.94       |                 | 20° 30°                |         |
| LL01LU-LHxxL06  |                   | 21 x 9.15          | 15°             |                        |         |
| 3 in 1          | LL03ED-BAxxL06    | 50.5 x 13          | 45° 60°         |                        |         |
|                 | LL03CR-EKxxL06    | 35 x 9             | 40° 60°         |                        |         |
|                 | LL03ED-AFxxL06    | 50.5 x 20          | 30° 45°         |                        |         |
|                 | LL03CR-CExxL06    | 34 x 9.9           | 38°             |                        |         |
| 6 in 1          | LL03ZZ-EUxxL06    | 33 x 6.9           | 38°             |                        |         |
|                 | LL06ED-ATxxL06    | 73.2 x 13.5        | 40°             |                        |         |
|                 | LL06ED-DKxxL06    | 73.2 x 13.7        | 60°             |                        |         |
| 6 in 1          | LL06CR-CKxxL06    | 73.2 x 13.5        | 25°             |                        |         |
|                 | LL06ED-ADxxL06    | 73.3 x 11.5        | 40° 60°         |                        |         |
|                 | LL06ED-AExxL06    | 73.3 x 13.5        | 25° 40°         |                        |         |
| 9 in 1          | LL09ED-BZxxL06    | 90.75 x 16.5       | 25°             |                        |         |
|                 | LL09ED-ATxxL06    | 90.6 x 17.5        | 40°             |                        |         |
| 12 in 1         | LL12ED-AGxxL06    | 112 x 13.4         | 45°             |                        |         |
| 15 in 1         | LL15ED-BHxxL06    | 95 x 11.1          | 40°             |                        |         |
| 18 in 1         | LL18ED-BIxxL06    | 110 x 13.1         | 40°             |                        |         |
| 60 in 1         | LL60ED-BOxxL06    | 180 x 13.1         | 45°             |                        |         |
| Street Lighting | LL01OS-AU60130L02 | 30.1 x 14.3 x 8.5  |                 | 60°x130°<br>(Symmetry) |         |

■ NSBLL036

| Type      | Part Number      | DxH(mm)     | Full Angle | FWHM        | Holder |
|-----------|------------------|-------------|------------|-------------|--------|
| Single    | LL01CR-ABGxxL02  | 34 x 15.7   |            | 24° 38° 55° |        |
|           | LL01CR-ABHxxL02  | 50 x 10.4   |            | 40° 60°     |        |
|           | LL01ED-ABYxxL02  | 44 x 14.1   |            | 24°         |        |
|           | LL01CR-AQHxxL02  | 44 x 14.1   |            | 38° 45°     |        |
| Reflector | LL01CT-AJZxxR49  | 50 x 19     |            | 55°         |        |
|           | LL01CT-ALNxxR49  | 75.8 x 20.1 |            | 38° 45°     |        |
|           | LL01CT-AMXxxR49  | 44 x 11.8   |            | 45°         |        |
|           | LL01ED-AJMxxR49  | 35.2 x 7.8  |            | 24° 38°     |        |
|           | LL01ED-AKVxxR49  | 50 x 29.5   |            | 36°         |        |
|           | LL01ED-AKYxxR49  | 50.5 x 30   |            | 38° 45°     |        |
|           | LL01ED-ALAXxxR49 | 75 x 20.1   |            | 24°         |        |
|           | LL01ED-ALixxxR49 | 50 x 19     |            | 24° 38° 55° |        |
|           | LL01SP-ATHxxR49  | 75 x 40     |            | 15° 24° 38° |        |
|           | LL01ZZ-AAAxL49   | 70 x 35     |            | 38° 55°     |        |

■ NSBLL066

| Type      | Part Number      | DxH(mm)      | Full Angle | FWHM            | Holder |
|-----------|------------------|--------------|------------|-----------------|--------|
| Single    | LL01CR-BAYxxL06  | 75.8 x 22.5  |            | 24° 38°         |        |
|           | LL01CT-AMYxxL06  | 75.8 x 23    |            | 24°             |        |
|           | LL01ED-ABXxxL06  | 75.8 x 24.35 |            | 24°             |        |
| Reflector | LL01CT-ALNxxR49  | 75.8 x 20.1  |            | 24° 38°         |        |
|           | LL01ED-AKAXxxR49 | 85 x 23.5    |            | 60°             |        |
|           | LL01ED-ALAXxxR49 | 75 x 20.1    |            | 38°             |        |
|           | LL01SP-ASOxxR49  | 90 x 50      |            | 15° 24° 38° 55° |        |
|           | LL01SP-ATHxxR49  | 75 x 40      |            | 15° 24° 38°     |        |
|           | LL01ZZ-AAAxL49   | 70 x 35      |            | 38° 55°         |        |

■ NSBLL 121

| Type      | Part Number      | DxH(mm)     | Full Angle | FWHM            | Holder |
|-----------|------------------|-------------|------------|-----------------|--------|
| Single    | LL01ED-ASAxL02-P | 90.6 x 22   |            | 12° 24° 38°     |        |
|           | LL01ED-ASAxL06-P | 90.6 x 22   |            | 12° 24° 38°     |        |
| Reflector | LL01ED-AKAXxxR49 | 85 x 23.5   |            | 60°             |        |
|           | LL01ED-AKXxxR49  | 116 x 32    |            | 24° 38°         |        |
|           | LL01ED-ALJxxR49  | 91.5 x 23.2 |            | 38° 45°         |        |
|           | LL01SP-ASOxxR49  | 90 x 50     |            | 15° 24° 38° 55° |        |
|           | LL01SP-ATHxxR49  | 75 x 40     |            | 15° 24° 38°     |        |
|           | LL01ZZ-AAAxL49   | 70 x 35     |            | 38° 55°         |        |



CLL010/012



CLL020/022



CLL030/032



CLL040



CLL430



■ **CLL010/012**

| Type      | Part Number       | DxH(mm)      | Full Angle | FWHM        | Holder |
|-----------|-------------------|--------------|------------|-------------|--------|
| Single    | LL01CR-ABGxxL02   | 34 x 15.7    |            | 38° 55°     |        |
|           | LL01ED-ABYxxL02   | 44 x 14.1    |            | 24°         |        |
|           | LL01CR-AQHxxL02   | 44 x 14.1    |            | 38° 45°     |        |
|           | LL01CR-DGxxL06    | 28.8 x 16.75 | 20° 50°    |             |        |
|           | LL01ED-AYxxL06    | 43.8 x 24.5  | 10° 38°    |             |        |
| Reflector | LL01BR-TYRxxR34-P | 45 x 19.4    |            | 24° 34° 50° |        |
|           | LL01CT-AJZxxR49   | 50 x 19      |            | 38° 55°     |        |
|           | LL01CT-AMXxxR49   | 44 x 11.8    |            | 45°         | V      |
|           | LL01ED-AJMxxR49   | 35.2 x 7.8   |            | 24° 38°     |        |

■ **CLL030/032**

| Type      | Part Number              | DxH(mm)      | Full Angle | FWHM            | Holder |
|-----------|--------------------------|--------------|------------|-----------------|--------|
| Single    | LL01CR-ABHxxL02          | 50 x 10.4    |            | 40° 60°         |        |
|           | LL01CR-BAYxxL06          | 75.8 x 22.5  |            | 24° 38°         |        |
|           | LL01CT-AMYxxL06          | 75.8 x 23    |            | 24° 38°         |        |
|           | LL01CT-APGxxL06-M2       | 90.8 x 22    |            | 24° 38°         | V      |
|           | LL01CT-AZNxxL02-P        | 88.5 x 15    |            | 15° 24° 38°     | V      |
|           | LL01ED-ABXxxL06          | 75.8 x 24.35 |            | 24° 38°         |        |
|           | LL01ED-ASAxxL02-P        | 90.6 x 22    |            | 12° 24°         |        |
|           | LL01ED-ASAxxL06-P        | 90.6 x 22    |            | 12° 24° 38°     |        |
|           | LL01BR-TYRxxR34-P        | 45 x 19.4    |            | 24° 34° 50°     |        |
|           | LL01CIOTxxR2-P           | 50 x 30      |            | 20° 33° 45°     | V      |
| Reflector | LL01CT-ALOxxR49          | 90.5 x 23.2  |            | 24° 38° 55°     | V      |
|           | LL01CT-AYXxxR35-P        | 90 x 50      |            | 15° 24° 38°     | V      |
|           | LL01ED-AKAxxR49          | 85 x 23.5    |            | 60°             |        |
|           | LL01ED-AKXxxR49          | 116 x 32     |            | 24° 38°         |        |
|           | LL01ED-ALAxxR49          | 75 x 20.1    |            | 24° 38°         |        |
|           | LL01ED-ALJxxR49          | 91.5 x 23.2  |            | 24° 38° 45°     |        |
|           | LL01SP-ASOxxR49          | 90 x 50      |            | 15° 24° 38° 55° |        |
|           | LL01ZZ-AAAxL49           | 70 x 35      |            | 24° 38° 55°     |        |
|           | LL01CT-BKYxxR49-BLBxxL51 | 93 x 35      |            | 15° 24° 36° 75° |        |

■ **CLL040**

| Type   | Part Number       | DxH(mm)      | Full Angle | FWHM        | Holder |
|--------|-------------------|--------------|------------|-------------|--------|
| Single | LL01CT-AMYxxL06   | 75.8 x 23    |            | 24° 38°     |        |
|        | LL01ED-ABXxxL06   | 75.8 x 24.35 |            | 24° 38°     |        |
|        | LL01ED-ASAxxL06-P | 90.6 x 22    |            | 12° 24° 38° |        |

■ **CLL020/022**

| Type      | Part Number        | DxH(mm)      | Full Angle  | FWHM        | Holder |
|-----------|--------------------|--------------|-------------|-------------|--------|
| Single    | LL01CR-ABHxxL02    | 50 x 10.4    |             | 60°         |        |
|           | LL01CR-BAYxxL06    | 75.8 x 22.5  |             | 24° 38°     |        |
|           | LL01CR-PVxxL02     | 45 x 23.7    | 45° 60° 80° |             |        |
|           | LL01ZZ-AOFxxL06-M2 | 74.4 x 13    |             | 24° 38°     | V      |
|           | LL01CT-AZWxxL02-P  | 76.1 x 12.7  |             | 24° 38°     | V      |
|           | LL01CT-BBXxxL06    | 69 x 22.7    |             | 24° 38°     |        |
|           | LL01ED-ABXxxL06    | 75.8 x 24.35 |             | 38°         |        |
|           | LL01ED-ASAxxL06-P  | 90.6 x 22    |             | 12° 24° 38° |        |
|           | LL01ED-AYxxL06     | 43.8 x 24.5  | 10° 38°     |             |        |
|           | LL01CT-BBXxxL06    | 69 x 22.7    |             | 24° 38°     |        |
|           | LL01BR-TYRxxR34-P  | 45 x 19.4    |             | 24° 34° 50° |        |
|           | LL01CT-AJZxxR49    | 50 x 19      |             | 38° 55°     |        |
|           | LL01CT-ALNxxR49    | 75.8 x 20.1  |             | 38° 45°     | V      |
|           | LL01CT-AMXxxR49    | 44 x 11.8    |             | 45°         |        |
|           | LL01CT-AYTxxR35-P  | 75 x 45      |             | 15° 24° 38° | V      |
| Reflector | LL01ED-AKVxxR49    | 50.5 x 29.5  |             | 36°         |        |
|           | LL01ED-AKYxxR49    | 50 x 30      |             | 38° 45°     |        |
|           | LL01ED-ALAxR49     | 75 x 20.1    |             | 24° 38°     |        |
|           | LL01ED-ALJxxR49    | 50 x 19      |             | 24° 38° 55° |        |
|           | LL01SP-ATHxxR49    | 75 x 40      |             | 15° 24° 38° |        |
|           | LL01TJ-AONxxR49    | 50 x 20      |             | 60°         |        |
|           | LL01ZZ-AAAxL49     | 70 x 35      |             | 24° 38° 55° |        |

■ **CLL430**

| Type      | Part Number       | DxH(mm)     | Full Angle  | FWHM        | Holder |
|-----------|-------------------|-------------|-------------|-------------|--------|
| Single    | LL01CR-ABHxxL02   | 50 x 10.4   |             | 60°         |        |
|           | LL01CR-PVxxL02    | 45 x 23.7   | 45° 60° 80° |             |        |
|           | LL01CT-AOFxxL06   | 74.4 x 13   |             | 24° 38°     |        |
|           | LL01ED-ASAxxL06-P | 90.6 x 22   |             | 12° 24° 38° |        |
|           | LL01ED-AYxxL06    | 43.8 x 24.5 | 10° 38°     |             |        |
|           | LL01BR-TYRxxR34-P | 45 x 19.4   |             | 24° 34° 50° |        |
| Reflector | LL01CT-AJZxxR49   | 50 x 19     |             | 38° 55°     |        |
|           | LL01CT-ALNxxR49   | 75.8 x 20.1 |             | 38° 45°     |        |
|           | LL01CT-AMXxxR49   | 44 x 11.8   |             | 45°         |        |
|           | LL01CT-AYTxxR35-P | 75 x 45     |             | 15° 24° 38° |        |
|           | LL01ED-AKVxxR49   | 50.5 x 29.5 |             | 36°         |        |
|           | LL01ED-AKYxxR49   | 50 x 30     |             | 38° 45°     |        |
|           | LL01ED-ALAxR49    | 75 x 20.1   |             | 24° 38°     |        |
|           | LL01ED-ALJxxR49   | 50 x 19     |             | 24° 38° 55° |        |
|           | LL01SP-ATHxxR49   | 75 x 40     |             | 15° 24° 38° |        |
|           | LL01TJ-AONxxR49   | 50 x 20     |             | 60°         |        |
|           | LL01ZZ-AAAxL49    | 70 x 35     |             | 24° 38° 55° |        |

SHARP

Petite Zenigata



Mini Zenigata



■ Petite Zenigata

| Type            | Part Number     | DxH(mm)      | Full Angle          | FWHM    | Holder |
|-----------------|-----------------|--------------|---------------------|---------|--------|
| Single          | LL01CR-ACZxxL02 | 27.8 x 10.2  |                     | 24° 38° |        |
|                 | LL01ED-ABYxxL02 | 44 x 14.1    |                     | 24°     |        |
|                 | LL01CR-AQHxxL02 | 44 x 14.1    |                     | 38° 45° |        |
|                 | LL01CR-BEXxxL06 | 20.9 x 9.2   |                     | 25°     |        |
|                 | LL01CR-DGxxL06  | 28.8 x 16.75 | 20° 30° 40° 50° 60° |         |        |
|                 | LL01CR-WlxxL02  | 28.8 x 17.4  |                     | 25° 40° |        |
|                 | LL01CR-XSxxL06  | 22.2 x 10.6  | 40°                 |         |        |
|                 | LL01ED-ACZxxL02 | 35 x 10.7    |                     | 24° 38° |        |
|                 | LL01ED-AFDxxL06 | 26 x 15.5    |                     | 15° 20° |        |
|                 | LL01ED-AJxxL06  | 28.9 x 19.7  | 25° 40° 60°         |         |        |
|                 | LL01ED-AQxxL06  | 22.5 x 10.5  | 40° 60°             |         |        |
|                 | LL01ED-ASxxL06  | 19.9 x 10.55 | 38°                 |         |        |
|                 | LL01ED-ASxxR06  | 19.9 x 10.55 | 38°                 |         |        |
|                 | LL01ED-ASxxL06  | 19.9 x 10.15 | 60°                 |         |        |
|                 | LL01ED-CVxxL06  | 19.6 x 12.3  | 15° 25° 45°         |         |        |
|                 | LL01ED-CYxxL06  | 26.8 x 19.3  | 30° 45° 30x65°      |         |        |
|                 | LL01OS-AXxxL02  | 20 x 11.5    | 20° 40° 60°         |         |        |
|                 | LL01ZZ-AFLxxL02 | 22.2 x 10.4  |                     | 35° 50° |        |
|                 | LL01ZZ-EXxxL06  | 21 x 9.15    | 40° 30x65°          |         |        |
|                 | LL01ZZ-FLxxL06  | 22.2 x 10.6  | 25° 40° 60°         |         |        |
| LL01SP-AVA40L06 | 42 x 9.65       |              | 40°                 |         |        |
| Reflector       | LL01CT-AMXxxR49 | 44 x 11.8    |                     | 45°     |        |
|                 | LL01ED-AJMxxR49 | 35.2 x 7.8   |                     | 38°     |        |

■ Mini Zenigata

| Type            | Part Number       | DxH(mm)           | Full Angle  | FWHM        | Holder      |  |
|-----------------|-------------------|-------------------|-------------|-------------|-------------|--|
| Single          | LL01CR-ABHxxL02   | 50 x 10.4         |             | 40° 60°     |             |  |
|                 | LL01CR-BAYxxL06   | 75.8 x 22.5       |             | 24° 38°     |             |  |
|                 | LL01CR-PVxxL02    | 45 x 23.7         | 45° 60° 80° |             |             |  |
|                 | LL01CR-ZExxL02    | 35 x 20.4         |             | 20° 30° 45° |             |  |
|                 | LL01CT-AMYxxL06   | 75.8 x 23         |             | 24°         |             |  |
|                 | LL01CT-AOFxxL06   | 74.4 x 13         |             | 24° 38°     |             |  |
|                 | LL01CT-APGxxL06   | 84.6 x 18         |             | 24° 38°     |             |  |
|                 | LL01ED-ABXxxL06   | 75.8 x 24.35      |             | 24° 38°     |             |  |
|                 | LL01ED-ASAxxL06-P | 90.6 x 22         |             | 24° 38°     |             |  |
|                 | LL01SP-AVA40L06   | 42 x 9.65         |             | 40°         |             |  |
|                 | Reflector         | LL01BR-TYRxxR34-P | 45 x 19.4   |             | 24° 34° 50° |  |
|                 |                   | LL01CIOTxxR2-P    | 50 x 30     |             | 20° 33° 45° |  |
| LL01CT-AJZxxR49 |                   | 50 x 19           |             | 38° 55°     |             |  |
| LL01CT-ALNxxR49 |                   | 75.8 x 20.1       |             | 38° 45°     |             |  |
| LL01CT-ALOxxR49 |                   | 90.5 x 23.2       |             | 24° 38° 45° |             |  |
| LL01CT-AMXxxR49 |                   | 44 x 11.8         |             | 45°         |             |  |
| LL01ED-AJMxxR49 |                   | 35.2 x 7.8        |             | 24° 38°     |             |  |
| LL01ED-AKAxxR49 |                   | 85 x 23.5         |             | 60°         |             |  |
| LL01ED-AKVxxR49 |                   | 50.5 x 29.5       |             | 36°         |             |  |
| LL01ED-AKYxxR49 |                   | 50 x 30           |             | 24° 38° 45° |             |  |
| LL01ED-ALlxxR49 |                   | 50 x 19           |             | 24° 38° 55° |             |  |
| LL01ZZ-AAAxL49  |                   | 70 x 35           |             | 24° 38° 55° |             |  |

## ■ Mega Zenigata

| Type      | Part Number       | DxH(mm)      | Full Angle | FWHM            | Holder |
|-----------|-------------------|--------------|------------|-----------------|--------|
| Single    | LL01CR-BAYxxL06   | 75.8 x 22.5  |            | 24° 38°         |        |
|           | LL01CT-AMYxxL06   | 75.8 x 23    |            | 24°             |        |
|           | LL01CT-AOFxxL06   | 74.4 x 13    |            | 24° 38°         |        |
|           | LL01CT-APGxxL06   | 84.6 x 18    |            | 24° 38°         |        |
|           | LL01ED-ABXxxL06   | 75.8 x 24.35 |            | 24° 38°         |        |
|           | LL01ED-ASAxxL06-P | 90.6 x 22    |            | 24° 38°         |        |
|           | LL01SP-AVA40L06   | 42 x 9.65    |            | 40°             |        |
| Reflector | LL01BR-TYRxxR34-P | 45 x 19.4    |            | 24° 34° 50°     |        |
|           | LL01CIOTxxR2-P    | 50 x 30      |            | 20° 33° 45°     |        |
|           | LL01CT-ALOXxxR49  | 90.5 x 23.2  |            | 24° 38° 45°     |        |
|           | LL01ED-AKAXxxR49  | 85 x 23.5    |            | 60°             |        |
|           | LL01ED-AKXxxR49   | 116 x 32     |            | 24° 38°         |        |
|           | LL01ED-ALAXxxR49  | 75 x 20.1    |            | 24° 38°         |        |
|           | LL01ED-ALJxxR49   | 91.5 x 23.2  |            | 24° 38° 45°     |        |
|           | LL01SP-ASOxxR49   | 90 x 50      |            | 15° 24° 38° 55° | V      |
|           | LL01SP-ATHxxR49   | 75 x 40      |            | 15° 24° 38°     | V      |
|           | LL01ZZ-AAAXxL49   | 70 x 35      |            | 38° 55°         |        |



1LA5



1LA5



| Type           | Part Number       | DxH(mm)        | Full Angle             | FWHM               | Holder |
|----------------|-------------------|----------------|------------------------|--------------------|--------|
| Single         | LL01CR-BRxxL06    | 19.65 x 12.5   | 30° 40° 50° 40x90°     |                    |        |
|                | LL01CR-DGxxL06    | 28.8 x 16.75   | 30° 40° 50° 60°        |                    |        |
|                | LL01ED-AHxxL06-M2 | 21.3 x 14      | 30° 45° 60°            |                    | V      |
|                | LL01ED-AJxxL06-M2 | 31 x 19.3      | 10° 25° 40° 60°        |                    | V      |
|                | LL01ED-AKxxL06    | 34.4 x 18.8    | 25° 40°                |                    |        |
|                | LL01ED-ALxxL06-M2 | 21.3 x 14      | 15° 30x65°             |                    | V      |
|                | LL01ED-ANxxL06-M2 | 25 x 13.5      | 15x50°                 |                    | V      |
|                | LL01ED-AOxxL06-M2 | 23.5 x 17.5    | 30° 40° 60° 80° 25x45° |                    | V      |
|                | LL01ED-BAxxL06-M2 | 26.6 x 12.8    | 15° 40° 60°            |                    | V      |
|                | LL01ED-ASxxL06-M2 | 21.9 x 12.3    | 15° 38° 60°            |                    | V      |
|                | LL01ED-BBxxL06    | 35.8 x 16.5    | 25° 40° 60°            |                    |        |
|                | LL01ED-CTxxL06    | 31 x 11.2      | 38° 80°                |                    |        |
|                | LL01ED-CVxxL06-M2 | 21.5 x 15.0    | 15° 25° 45°            |                    | V      |
|                | LL01OS-AXxxL02    | 20 x 11.5      | 40° 60°                |                    |        |
|                | LL01OS-BWxxL06    | 37.2 x 15.35   | 30°                    |                    |        |
|                | LL01OS-BYxxL06    | 37.2 x 15.35   | 30°                    |                    |        |
|                | LL01ZZ-EXxxL06    | 21 x 8.75      | 25°                    |                    |        |
|                | LL01ZZ-FLxxL06    | 22.2 x 10.6    | 25° 40°                |                    |        |
|                | LL01ED-BJxxL06    | 19.7 x 11.9    | 38°                    |                    |        |
|                | LL01ED-BPxxL06-M2 | 21.3 x 14      | 45°                    |                    | V      |
|                | LL01ED-BV60L06-M2 | 21.3 x 14      | 60°                    |                    | V      |
|                | LL01ED-FMxxL06    | 19.9 x 10.55   | 38°                    |                    |        |
|                | LL01ED-IHxxL06    | 87 x 44.25     | 60°                    |                    |        |
|                | LL01ED-ZBxxL06    | 19.6 x 10.4    | 15°                    |                    |        |
|                | LL01LU-AAxxL06    | 19.7 x 13.8    | 20°x65°                |                    |        |
|                | LL01OS-CBxxL06    | 25.6 x 10      | 15°                    |                    |        |
|                | LL01ZZ-AHAxxL06   | 50 x 25.4      |                        | 5°                 |        |
|                | 3 in 1            | LL03ED-AFxxL06 | 50.5 x 20              | 30° 45° 60° 40x70° |        |
| LL03ED-ASxxL06 |                   | 37.7 x 10.5    | 38°                    |                    |        |
| LL03ED-AZxxL06 |                   | 50.5 x 13      | 25° 45° 60°            |                    |        |
| LL03ED-BAxxL06 |                   | 50.5 x 13      | 25° 45° 60°            |                    |        |

| Type            | Part Number        | DxH(mm)             | Full Angle     | FWHM                    | Holder |
|-----------------|--------------------|---------------------|----------------|-------------------------|--------|
| 3 in 1          | LL03ED-CTxxL06     | 31 x 11.2           | 38° 80°        |                         |        |
|                 | LL03ED-EKxxL06     | 35 x 9.2            | 25° 40° 60°    |                         |        |
|                 | LL03ED-AIHxxL06    | 37 x 8.7            | 30°            |                         |        |
|                 | LL03ED-ALlxxL06    | 34.9 x 10.4         | 30°            |                         |        |
| 6 in 1          | LL06CR-AXNxxL06-M2 | 76 x 13             |                | 25°                     | V      |
|                 | LL06ED-ADxxL06     | 73.3 x 11.5         | 8° 25° 40° 60° |                         |        |
|                 | LL06CR-AXMxxL06-M2 | 76 x 13             |                | 15° 25° 35°             | V      |
| 9 in 1          | LL06CR-AXLxxL06-M2 | 76 x 13             |                | 25°                     | V      |
|                 | LL09ED-ACxxL06     | 95.4 x 13.5         | 15° 25°        |                         |        |
|                 | LL09ED-BZxxL06     | 90.75 x 16.5        | 15° 25°        |                         |        |
|                 | LL09ED-ATxxL06-M2  | 90.6 x 17.5         | 40°            |                         | V      |
| 12 in 1         | LL09ED-BQxxL06     | 90.6 x 16.5         | 25° 60°        |                         |        |
|                 | LL12ED-AGxxL06     | 112 x 13.4          | 25° 45°        |                         |        |
|                 | LL12ED-BGxxL06     | 95 x 11.2           | 15° 25° 40°    |                         |        |
| 15 in 1         | LL12ED-BQxxL06     | 90.6 x 16.6         | 25°            |                         |        |
|                 | LL15ED-BHxxL06     | 95 x 11.1           | 15° 25° 40°    |                         |        |
| 18 in 1         | LL18ED-BlxxL06     | 110 x 13.1          | 15° 25° 40°    |                         |        |
| 24 in 1         | LL24ED-ABxxL06     | 174.5 x 12.7        | 15° 25° 40°    |                         |        |
| 36 in 1         | LL36ED-AAxxL06     | 140 x 12.6          | 15° 25° 45°    |                         |        |
| 60 in 1         | LL60ED-BOxxL06     | 180 x 13.1          | 25° 45°        |                         |        |
| Street Lighting | LL01ED-AU40130L02  | 18.95 x 14.8 x 8.25 |                | 40°x130°<br>(Asymmetry) |        |
|                 | LL01ED-AU50130L02  | 30 x 11 x 11.4      |                | 50°x130°<br>(Symmetry)  |        |
|                 | LL01ED-AU70135L02  | 24 x 12.3 x 9.2     |                | 70°x135°<br>(Symmetry)  |        |
|                 | LL01ED-LP70130L02  | 20 x 11.7 x 6.9     |                | 70°x130°<br>(Asymmetry) |        |
|                 | LL01ED-ZP55140L02  | 19.15 x 10.8 x 9.4  |                | 55°x140°<br>(Asymmetry) |        |
|                 | LL01SH-AU75135L02  | 24 x 13.2 x 9.6     |                | 75°x135°<br>(Symmetry)  |        |
|                 | LL04LZ-NO85140L02  | 160 x 25 x 9.55     |                | 85°x140°<br>(Asymmetry) |        |
|                 | LL12ED-VT85160L02  | 158 x 50 x 9.4      |                | 85°x160°<br>(Asymmetry) |        |
|                 | LL24ED-AU75135L02  | 135 x 112 x 9.6     |                | 75°x135°<br>(Asymmetry) |        |



EdiPower II  
EPCX-HR96  
EPSX-HRB8  
EPSX-HRBF  
EPSX-HRBJ



■ **EdiPower II EPCX-HR96**

| Type      | Part Number        | DxH(mm)      | Full Angle | FWHM        | Holder |
|-----------|--------------------|--------------|------------|-------------|--------|
| Single    | LL01CR-ABHxxL02    | 50 x 10.4    |            | 40° 60°     |        |
|           | LL01ZZ-AOFxxL06-M2 | 76.4 x 16.7  |            | 24° 38°     | V      |
|           | LL01ED-ABXxxL06    | 75.8 x 24.35 |            | 24° 38°     |        |
|           | LL01ED-IHxxL06     | 87 x 44.25   | 60°        |             |        |
|           | LL01CR-BAAXxL02    | 74 x 3       |            | 24°         |        |
| Reflector | LL01BR-TYRxxR34-P  | 45 x 19.4    |            | 24° 34° 50° |        |
|           | LL01ED-AKY24R49    | 50.5 x 30    |            | 24° 38° 45° |        |
|           | LL01ED-ALI24R49    | 50 x 19      |            | 24° 38° 55° |        |
|           | LL01ZZ-AAA24L49    | 70 x 35      |            | 24° 38° 55° |        |

■ **EdiPower II EPSX-HRB8**

| Type      | Part Number        | DxH(mm)      | Full Angle | FWHM    | Holder |
|-----------|--------------------|--------------|------------|---------|--------|
| Single    | LL01ZZ-AOFxxL06-M2 | 76.4 x 16.7  |            | 24° 38° | V      |
|           | LL01CT-APGxxL06    | 84.6 x 18    |            | 24° 38° |        |
|           | LL01ED-ABXxxL06    | 75.8 x 24.35 |            | 24° 38° |        |
|           | LL01ED-ASAxxL06-P  | 90.6 x 22    |            | 24° 38° |        |
|           | LL01ED-IHxxL06     | 87 x 44.25   | 60°        |         |        |
| Reflector | LL01CT-ALOxxR49    | 90.5 x 23.2  |            | 24° 45° |        |
|           | LL01ED-AKAxxR49    | 85 x 23.5    |            | 60°     |        |
|           | LL01ED-AKVxxR49    | 50 x 29.5    |            | 36°     |        |
|           | LL01ED-ALAxxR49    | 75 x 20.1    |            | 24° 38° |        |

■ **EdiPower II EPSX-HRBF**

| Type      | Part Number        | DxH(mm)      | Full Angle | FWHM    | Holder |
|-----------|--------------------|--------------|------------|---------|--------|
| Single    | LL01CT-APGxxL06-M2 | 90.8 x 22    |            | 24° 38° | V      |
|           | LL01ED-ABXxxL06    | 75.8 x 24.35 |            | 24° 38° |        |
|           | LL01ED-ASAxx06-P   | 90.6 x 22    |            | 24° 38° |        |
|           | LL01ED-IHxxL06     | 87 x 44.25   | 60°        |         |        |
| Reflector | LL01ED-AKAxxR49    | 85 x 23.5    |            | 60°     |        |
|           | LL01ED-AKXxxR49    | 116 x 32     |            | 24° 38° |        |
|           | LL01ED-ALJxxR49    | 91.5 x 23.2  |            | 45°     |        |

■ **EdiPower II EPSX-HRBJ**

| Type      | Part Number        | DxH(mm)      | Full Angle | FWHM    | Holder |
|-----------|--------------------|--------------|------------|---------|--------|
| Single    | LL01CT-APGxxL06-M2 | 84.6 x 18    |            | 24° 38° | V      |
|           | LL01ED-ABXxxL06    | 75.8 x 24.35 |            | 24° 38° |        |
|           | LL01ED-ASAxxL06-P  | 90.6 x 22    |            | 24° 38° |        |
|           | LL01ED-IHxxL06     | 87 x 44.25   | 60°        |         |        |
| Reflector | LL01ED-AKAxxR49    | 85 x 23.5    |            | 60°     |        |
|           | LL01ED-AKXxxR49    | 116 x 32     |            | 24° 38° |        |

**Federal 3535**

| Type    | Part Number        | DxH(mm)      | Full Angle                   | FWHM    | Holder |
|---------|--------------------|--------------|------------------------------|---------|--------|
| Single  | LL01CR-BRxxL06     | 19.65 x 12.5 | 40°                          |         |        |
|         | LL01HS-DFxxL02-M2  | 13.5 x 7.35  | 100°                         |         | V      |
|         | LL01CR-DGxxL06     | 28.8 x 16.75 | 30° 40° 50° 60°              |         |        |
|         | LL01CR-HQxxL06     | 14.8 x 9.5   | 40° 60°                      |         |        |
|         | LL01CR-NExxL06     | 19.4 x 15    | 25° 40° 60°<br>10x45° 25x45° |         |        |
|         | LL01CR-OTxxL06     | 15 x 9.7     | 40° 60° 80°                  |         |        |
|         | LL01ED-AKxxL06     | 34.4 x 18.8  | 25° 40°                      |         |        |
|         | LL01NI-GRxxL06     | 19.45 x 13.5 | 60°                          |         |        |
|         | LL01OS-BYxxL06     | 37.2 x 15.35 | 30°                          |         |        |
|         | LL01OS-MQxxL06     | 19.45 x 13.7 | 40°                          |         |        |
|         | LL01CR-EXxxL06-M2  | 22.4 x 9.7   | 40° 60°                      |         | V      |
|         | LL01ED-FMxxL06     | 19.9 x 10.55 | 38°                          |         |        |
| 3 in 1  | LL03CR-AZxxL06     | 50 x 14.5    | 25° 45°                      |         |        |
|         | LL03CR-RXxxL06     | 35 x 9.6     | 40° 60°                      |         |        |
|         | LL03LU-DMxxL06     | 23.1 x 11    | 25° 40°                      |         |        |
|         | LL03LU-DOxxL06     | 35 x 10.6    | 25° 40°                      |         |        |
| 4 in 1  | LL04CR-RXxxL06     | 35 x 9.7     | 40° 60°                      |         |        |
|         | LL04LU-DNxxL06     | 25.4 x 10.5  |                              | 25° 40° |        |
|         | LL04LU-DOxxL06     | 35 x 10.4    |                              | 25° 40° |        |
|         | LL04LU-GPxxL06     | 22.2 x 6.8   | 45°                          |         |        |
| 6 in 1  | LL06CR-RXxxL06     | 50 x 9.65    | 40° 60°                      |         |        |
|         | LL06CR-AXLxxL06-M2 | 76 x 13      |                              | 25°     | V      |
| 7 in 1  | LL07CR-RXxxL06     | 50 x 10.3    | 40° 60°                      |         |        |
|         | LL07ZZ-FUxxL06     | 50.35 x 10.7 | 25°                          |         |        |
|         | LL07ZZ-FVxxL06     | 39.2 x 10.8  | 25° 30°                      |         |        |
| 9 in 1  | LL09CR-RXxxL06     | 70 x 10.3    | 40° 60°                      |         |        |
| 12 in 1 | LL12CR-RXxxL06     | 70 x 10.3    | 40° 60°                      |         |        |
| 18 in 1 | LL18ED-BlxxL06     | 110 x 13.1   | 40°                          |         |        |



**Federal 3535**





**Ceramic3535**

| Type   | Part Number       | DxH(mm)      | Full Angle                                 | FWHM                | Holder |
|--------|-------------------|--------------|--|---------------------|--------|
| Single | LL01CR-AAFxxL02   | 11.8 x 6.65  |  | 25°                 |        |
|        | LL01CR-DFxxL06    | 11.8 x 6.65  | 25° 40° 60° 80° 100°<br>30°x65°            |                     |        |
|        | LL01NI-AAFxxL02   | 11.8 x 6.5   |  | 45° 60°             |        |
|        | LL01CR-HQxxL06    | 14.8 x 9.6   | 15° 25° 30° 40° 60° 80°<br>25°x45°         |                     |        |
|        | LL01CR-OTxxL06    | 15 x 9.7     | 25° 40° 60° 80°                            |                     |        |
|        | LL01CR-BNExxL06   | 19.4 x 14.6  |  | 25° 40° 60° 35°x70° |        |
|        | LL01CR-NExxL06    | 19.4 x 15    | 15° 17° 25° 40° 60° 80°<br>10°x45° 25°x45° |                     |        |
|        | LL01CR-SQxxL06    | 19.4 x 12.9  | 40° 60° 80°                                |                     |        |
|        | LL01CR-YJxxL02    | 19.4 x 12.7  | 40° 60° 80° 100°                           |                     |        |
|        | LL01LU-AFCxxL06   | 19.4 x 11.8  |  | 10°x35° 15°x30°     |        |
|        | LL01NI-ANExxL02   | 19.4 x 14.94 |  | 10° 20° 30°         |        |
|        | LL01OS-AFCxxL06   | 19.4 x 11.43 |  | 15° 25° 30°         |        |
|        | LL01ED-CVxxL06    | 19.6 x 12.3  | 15°  |                     |        |
|        | LL01CR-BRxxL06    | 19.65 x 12.5 | 30° 40° 50° 15°x50°<br>15°x80° 40°x90°     |                     |        |
|        | LL01CR-BSxxL06    | 19.8 x 12.5  | 10° 38° 60°                                |                     |        |
|        | LL01OS-BFVxxL06   | 20.8 x 12.35 |  | 15° 25° 30°         |        |
|        | LL01CR-BEXxxL06   | 20.9 x 9.2   |  | 60°                 |        |
|        | LL01ZZ-EXxxL06    | 21 x 9.3     | 10° 25° 40°                                |                     |        |
|        | LL01CR-XSxxL06    | 22.2 x 10.4  | 25° 40°                                    |                     |        |
|        | LL01ZZ-AFLxxL02   | 22.2 x 10.4  |  | 35° 50°             |        |
|        | LL01ZZ-FLxxL06    | 22.2 x 10.6  | 10° 25° 60° 30°x65°                        |                     |        |
|        | LL01CR-DGxxL06    | 28.8 x 16.75 | 20° 30° 40° 50° 60°                        |                     |        |
|        | LL01CR-WIxxL02    | 28.8 x 17.4  | 15° 25° 40°                                |                     |        |
|        | LL01CR-ZExxL02    | 35 x 20.4    | 20° 30° 45°                                |                     |        |
|        | LL01CR-BMxxL06    | 35.8 x 15.85 | 15° 40°                                    |                     |        |
|        | LL01CR-PVxxL02    | 45 x 23.7    | 45° 60°                                    |                     |        |
|        | LL01CT-AOFxxL06   | 74.4 x 13    |  | 24° 38°             |        |
|        | LL01CT-AMYxxL06   | 76 x 23      |  | 24° 38°             |        |
|        | LL01CT-AZWxxL02-P | 76.1 x 12.7  |  | 15° 24° 38°         |        |
|        | LL01CT-APGxxL06   | 84.6 x 18    |  | 24° 38°             |        |
|        | LL01CT-AZNxxL02-P | 88.5 x 15    |  | 15° 24° 38°         |        |

| Type            | Part Number        | DxH(mm)            | Full Angle  | FWHM                    | Holder |
|-----------------|--------------------|--------------------|-------------|-------------------------|--------|
| 3 in 1          | LL03LU-DMxxL06     | 23.1 x 11          | 15° 25°     |                         |        |
|                 | LL03ED-CTxxL06     | 31 x 11.2          | 38°         |                         |        |
|                 | LL03ED-GKxxL06     | 33.2 x 10.2        | 25° 40°     |                         |        |
|                 | LL03CR-RXxxL06     | 35 x 9.6           | 40° 60°     |                         |        |
|                 | LL03LU-DOxxL06     | 35 x 10.6          | 15° 25°     |                         |        |
| 4 in 1          | LL04CR-GPxxL06     | 22.2 x 6.7         | 25° 38° 45° |                         |        |
|                 | LL04LU-GPxxL06     | 22.2 x 6.8         | 15° 25° 45° |                         |        |
|                 | LL04CR-RXxxL06     | 35 x 9.7           | 40° 60°     |                         |        |
|                 | LL04LU-DOxxL06     | 35 x 10.4          | 15° 25°     |                         |        |
|                 | LL04ED-GKxxL06     | 37 x 10.3          | 25° 40°     |                         |        |
| LL04LU-DNxxL06  | 25.4 x 10.5        | 15° 25°            |             |                         |        |
| 6 in 1          | LL06CR-RXxxL06     | 50 x 9.65          | 40° 60°     |                         |        |
| 7 in 1          | LL07CR-RXxxL06     | 50 x 10.3          | 40° 60°     |                         |        |
|                 | LL07ED-GKxxL06     | 47 x 10.2          | 25° 40°     |                         |        |
| 9 in 1          | LL09CR-RXxxL06     | 70 x 10.3          | 40° 60°     |                         |        |
|                 | LL09ED-GKxxL06     | 67 x 10.8          | 25° 40°     |                         |        |
| 12 in 1         | LL12ED-GKxxL06     | 67 x 10.2          | 25° 40°     |                         |        |
|                 | LL12CR-RXxxL06     | 70 x 10.3          | 40° 60°     |                         |        |
| Street Lighting | LL01CR-APM80150L02 | 18 x 12.5 x 6.95   |             | 80°x150°<br>(Asymmetry) |        |
|                 | LL01CR-AU85135L02  | 18 x 10.2 x 6.1    |             | 85°x135°<br>(Asymmetry) |        |
|                 | LL01CR-FT60135L02  | 18 x 9.3 x 5.9     |             | 60°x135°<br>(Symmetry)  |        |
|                 | LL01CR-KM6090L02   | 17.55 x 11.6 x 8.6 |             | 60°x90°<br>(Symmetry)   |        |
|                 | LL01CR-OG85150L02  | 18 x 8.95 x 6.2    |             | 85°x150°<br>(Symmetry)  |        |
|                 | LL01CR-OW70130L02  | 17.4 x 12.75 x 7.2 |             | 70°x130°<br>(Asymmetry) |        |
|                 | LL01CR-PB70140L02  | 22.4 x 11.4 x 6.9  |             | 70°x140°<br>(Asymmetry) |        |
|                 | LL01LU-AIK45135L02 | 18 x 12.5 x 7.05   |             | 45°x135°<br>(Asymmetry) |        |
|                 | LL01LU-NI75140L02  | 15.7 x 14 x 5.8    |             | 75°x140°<br>(Asymmetry) |        |
|                 | LL01LU-UQ70140L02  | 18 x 11 x 6.6      |             | 70°x140°<br>(Asymmetry) |        |
|                 | LL01OS-AU60130L02  | 30.1 x 14.3 x 8.5  |             | 60°x130°<br>(Symmetry)  |        |
|                 | LL01OS-AU60140L02  | 16 x 8.8 x 5.3     |             | 60°x140°<br>(Asymmetry) |        |
|                 | LL01ZZ-AGX45155L02 | 18 x 12.5 x 7      |             | 45°x155°<br>(Asymmetry) |        |



LH351A





| Type         | Part Number       | DxH(mm)   | Full Angle  | FWHM | Holder         | Type            | Part Number        | DxH(mm)      | Full Angle  | FWHM                | Holder |
|--------------|-------------------|-----------|-------------|------|----------------|-----------------|--------------------|--------------|-------------|---------------------|--------|
| Single       | LL01ED-AP70L06-M2 | 24.6x19.4 | 60°         |      | V              | 6 in 1          | LL06CR-AXNxxL06-M2 | 76 x 13      |             | 25°                 | V      |
|              | LL01CR-BRxxL      | 19.6x12.5 | 40°         |      |                |                 | LL06ED-ADxxL       | 73.3x13.9    | 25° 40° 60° |                     |        |
|              | LL01CR-DGxxL      | 28.8x16.5 | 30° 40°     |      |                |                 | LL06CR-AXMxxL06-M2 | 76 x 13      |             | 15° 25° 35°         | V      |
|              | LL01ED-AJxxL06-M2 | 31x19.3   | 25° 40° 60° |      | V              |                 | LL06CR-AXLxxL06-M2 | 76 x 13      |             | 25°                 | V      |
|              | LL01ED-AKxxL      | 34.6x18.7 | 25° 40°     |      |                |                 | LL06ED-BExxL       | 43.9x8.5     | 25°         |                     |        |
|              | LL01ED-BAxxL06-M2 | 26.6x12.8 | 40° 60°     |      | V              | 7 in 1          | LL07ED-BFxxL       | 43.9x8.6     | 25°         |                     |        |
|              | LL01ED-BBxxL      | 35.8x15.9 | 40°         |      |                | 9 in 1          | LL09ED-ACxxL       | 95x12.8      | 25°         |                     |        |
|              | LL01ED-CTxxL      | 31x11.2   | 38° 80°     |      |                |                 | LL09ED-ATxxL06-M2  | 90.6x16.5    | 40°         |                     | V      |
|              | LL01ED-CVxxL02-M2 | 21.5x15.0 | 25° 45°     |      | V              | LL09ED-BZxxL    | 90.6x16.5          | 25°          |             |                     |        |
|              | LL01ED-FM38L06-M2 | 21.9x12.3 | 38°         |      | V              | 12 in 1         | LL12ED-AGxxL       | 122x13.5     | 45°         |                     |        |
|              | LL01OS-AXxxL      | 19.7x11.5 | 40° 60°     |      |                |                 | LL12ED-BGxxL       | 95x11.2      | 25° 40°     |                     |        |
|              | LL01OS-BWxxL      | 37.2x15.4 | 30°         |      |                | LL12ED-BQxxL    | 91x17              | 25°          |             |                     |        |
|              | LL01OS-BYxxL      | 37.2x15.4 | 30°         |      |                | 15 in 1         | LL15ED-BHxxL       | 95x11.1      | 25° 40°     |                     |        |
|              | LL01OS-CBxxL      | 25.6x10   |             |      | 15°            | 18 in 1         | LL18ED-BIxxL       | 110x13.1     | 25° 40°     |                     |        |
|              | LL01SE-BSxxL      | 19.9x11.6 | 38°         |      |                | 24 in 1         | LL24ED-ABxxL       | 174.5x12.5   | 25° 45°     |                     |        |
| LL01ZZ-EXxxL | 21x9.3            | 40° 60°   |             |      | 36 in 1        | LL36ED-AAxxL    | 140x12.7           | 25° 45°      |             |                     |        |
| LL01ZZ-FLxxL | 22x10.6           | 25°       |             |      | 60 in 1        | LL60ED-BOxxL    | 180x13.1           | 25°          |             |                     |        |
| 3 in 1       | LL03CR-CExxL      | 34x9.9    | 38°         |      |                | Street Lighting | LL01ED-AU50130L    | 30x10.4x10.1 |             | 50°x130° (Symmetry) |        |
|              | LL03ED-AFxxL      | 50.5x19.6 | 45° 60°     |      |                |                 | LL01ED-AU70135L    | 24x12.3x9.2  |             | 70°x135° (Symmetry) |        |
|              | LL03ED-AZxxL      | 50.5x13   | 45° 60°     |      |                |                 | LL01SH-AU75135L    | 24x12.6x9.3  |             | 75°x135° (Symmetry) |        |
|              | LL03ED-BAxxL      | 50.5x13   | 45° 60°     |      |                | Oval Lens       | LL01ED-AL3065L     | 19.7x9.9     | 30°x65°     |                     |        |
|              | LL03ED-CExxL      | 34x9.9    | 38°         |      |                |                 | LL01LU-AA2065L     | 19.7x13.8    | 20°x65°     |                     |        |
| LL03ED-CTxxL | 31x11.2           | 38° 80°   |             |      | LL01NI-DZ2040L | 22x13.9         |                    | 20°x40°      |             |                     |        |
| 4 in 1       | LL04ED-BDxxL      | 43.9x9.7  | 40°         |      |                |                 |                    |              |             |                     |        |

| Type              | Part Number        | DxH(mm)     | Full Angle  | FWHM    | Holder |
|-------------------|--------------------|-------------|-------------|---------|--------|
| Single            | LL01CR-BMxxL06     | 19.4x13.5   | 40°         |         |        |
|                   | LL01XP-DGxxL06-M2  | 32.8x18     | 30° 40°     |         | V      |
|                   | LL01ED-AJxxL06     | 28.8x19.8   | 25° 40° 60° |         |        |
|                   | LL01ED-AKxxL06     | 34.6x18.7   | 25° 40°     |         |        |
|                   | LL01ED-ASxxR06     | 19.9x10.6   | 38°         |         |        |
|                   | LL01ED-ASxxL06     | 19.9x10.6   | 60°         |         |        |
|                   | LL01ED-BBxxL06     | 35.7x15.9   | 60°         |         |        |
|                   | LL01ED-CTxxL06     | 31x11.2     | 38°         |         |        |
|                   | LL01ED-FMxxL06     | 19.9x10.6   | 38°         |         |        |
|                   | LL01NI-GRxxL06     | 19.4x13.5   | 40° 60°     |         |        |
|                   | LL01OS-AXxxL02     | 19.7x11.5   | 40°         |         |        |
|                   | LL01OS-BWxxL06     | 37.2x15.4   | 30°         |         |        |
|                   | LL01OS-BYxxL06     | 37.2x15.4   | 30°         |         |        |
|                   | LL01OS-CBxxL06     | 25.6x10     | 15°         |         |        |
|                   | LL01ZZ-EXxxL06-M2  | 22.4x9.7    | 25° 40° 60° |         | V      |
| LL01XP-FLxxL06-M2 | 24.3x11.5          | 25° 40° 60° |             | V       |        |
| 3 in 1            | LL03ED-GKxxL06     | 33.2x10.3   | 40°         |         |        |
|                   | LL03LU-DMxxL06     | 23.1x10.9   |             | 25° 40° |        |
|                   | LL03LU-DOxxL06     | 35x10.5     |             | 25°     |        |
| 4 in 1            | LL04ED-GKxxL06     | 37x10.3     | 40°         |         |        |
|                   | LL04LU-DNxxL06     | 25.4x10.4   |             | 25°     |        |
|                   | LL04LU-DOxxL06     | 35x10.4     |             | 25°     |        |
| 6 in 1            | LL06CR-AXNxxL06-M2 | 76 x 13     |             | 25°     | V      |
|                   | LL06ED-ADxxL06     | 73.3x13.9   | 60°         |         |        |
|                   | LL06CR-AXMxxL06-M2 | 76 x 13     |             | 15° 25° | V      |
|                   | LL06CR-AXLxxL06-M2 | 76 x 13     |             | 25°     | V      |

| Type    | Part Number     | DxH(mm)    | Full Angle | FWHM | Holder |
|---------|-----------------|------------|------------|------|--------|
| 7 in 1  | LL07ED-GKxxL06  | 47x10.7    | 40°        |      |        |
|         | LL07ZZ-FUxxL06  | 50.3x10.8  |            | 25°  |        |
|         | LL007ZZ-FVxxL06 | 39.1x10.6  |            | 25°  |        |
| 9 in 1  | LL09ED-ACxxL06  | 95x12.8    | 25°        |      |        |
|         | LL09ED-ATxxL06  | 90.6x16.5  | 40°        |      |        |
|         | LL09ED-GKxxL06  | 67x9.8     | 40°        |      |        |
| 12 in 1 | LL12ED-AGxxL06  | 122x13.5   | 45°        |      |        |
|         | LL12ED-GKxxL06  | 67.8x10.8  | 40°        |      |        |
| 15 in 1 | LL15ED-BHxxL06  | 95x11.1    | 40°        |      |        |
| 24 in 1 | LL24ED-ABxxL06  | 174.5x12.5 | 45°        |      |        |
| 36 in 1 | LL36ED-AAxxL06  | 140x12.7   | 45°        |      |        |



Z5





Ceramic  
3535



■ Ceramic 3535

| Type           | Part Number     | DxH(mm)      | Full Angle          | FWHM        | Holder            | Type              | Part Number        | DxH(mm)            | Full Angle           | FWHM                 | Holder  |  |
|----------------|-----------------|--------------|---------------------|-------------|-------------------|-------------------|--------------------|--------------------|----------------------|----------------------|---------|--|
| Single         | LL01CR-DFxxL06  | 11.8 x 6.65  | 100°                |             |                   | 7 in 1            | LL07ZZ-FUxxL06     | 50.35 x 10.7       |                      | 25°                  |         |  |
|                | LL01CR-DGxxL06  | 28.8 x 16.75 | 20° 30° 40° 50° 60° |             |                   |                   | LL07ZZ-FVxxL06     | 39.2 x 10.8        |                      | 30° 60°              | 15° 25° |  |
|                | LL01CR-HQxxL06  | 14.8 x 9.5   | 60° 80°             |             |                   | 9 in 1            | LL09CR-RXxxL06     | 70 x 10.3          |                      | 40° 60°              |         |  |
|                | LL01CR-NExxL06  | 19.4 x 15    | 25° 40° 60° 80°     |             |                   |                   | LL09ED-UYxxL06     | 67 x 10.3          |                      | 40°                  |         |  |
|                | LL01CR-XSxxL06  | 22.2 x 10.6  | 40°                 |             |                   |                   | LL09OS-GKxxL06     | 67 x 9.8           |                      | 40° 60°              |         |  |
|                | LL01ED-BBxxL06  | 35.8 x 16.5  | 60°                 |             |                   |                   | LL09ED-ATxxL06     | 90.6 x 17.5        |                      | 40°                  |         |  |
|                | LL01ED-CTxxL06  | 31 x 11.2    | 38°                 |             |                   | 12 in 1           | LL12CR-RXxxL06     | 70 x 10.3          |                      | 40° 60°              |         |  |
|                | LL01LU-AFCxxL06 | 19.4 x 11.8  | 20°x50°             |             |                   |                   | LL12ED-AGxxL06     | 112 x 13.4         |                      | 45°                  |         |  |
|                | LL01CR-AAFxxL02 | 11.8x 6.65   |                     | 25° 45° 60° |                   |                   | LL12ED-UYxxL06     | 67 x 10.3          |                      | 40°                  |         |  |
|                | LL01OS-BWxxL06  | 37.2 x 15.35 | 30°                 |             |                   |                   | LL12OS-GKxxL06     | 67 x 9.8           |                      | 40° 60°              |         |  |
|                | LL01OS-BYxxL06  | 37.2x 15.35  | 30°                 |             |                   | 18 in 1           | LL18ED-BLxxL06     | 110 x 13.1         |                      | 40°                  |         |  |
|                | LL01OS-MQxxL06  | 19.45 x 13.7 | 25° 40° 60°         |             |                   | 24 in 1           | LL24ED-ABxxL06     | 174.5 x 12.7       |                      | 45°                  |         |  |
|                | LL01ZZ-EXxxL06  | 21 x 9.3     | 40° 60°             |             |                   | Street Lighting   | LL01CR-AU85135L02  | 18 x 10.2 x 6.1    |                      | 85°x135° (Asymmetry) |         |  |
|                | LL01ZZ-FLxxL06  | 22.2 x 10.6  | 10° 40° 60°         |             |                   |                   | LL01CR-FT60135L02  | 18 x 9.3 x 5.9     |                      | 60°x135° (Symmetry)  |         |  |
|                | LL01ED-FMxxL06  | 19.9 x 10.55 | 38°                 |             |                   |                   | LL01CR-KM6090L02   | 17.55 x 11.6 x 8.6 |                      | 60°x90° (Symmetry)   |         |  |
| LL01OS-CBxxL06 | 25.6 x 10       | 15°          |                     |             | LL01CR-OW70130L02 |                   | 17.4 x 12.75 x 7.2 |                    | 70°x130° (Asymmetry) |                      |         |  |
| 3 in 1         | LL03CR-RXxxL06  | 35 x 9.6     | 40° 60°             |             |                   |                   | LL01CR-PB70140L02  | 22.4 x 11.4 x 6.9  |                      | 70°x140° (Asymmetry) |         |  |
|                | LL03ED-UYxxL06  | 33.2 x 10.3  | 40°                 |             |                   |                   | LL24CR-AU75135L02  | 120 x 100 x 10.2   |                      | 75°x135° (Asymmetry) |         |  |
|                | LL03OS-GKxxL06  | 33.2 x 9.8   | 40° 60°             |             |                   |                   | LL24ED-AU75135L02  | 135 x 112 x 9.6    |                      | 75°x135° (Asymmetry) |         |  |
| 4 in 1         | LL04CR-RXxxL06  | 35 x 9.7     | 40° 60°             |             |                   | LL30CR-PT60140L02 | 235 x 71 x 9.4     |                    | 60°x140° (Asymmetry) |                      |         |  |
|                | LL04ED-UYxxL06  | 37 x 10.3    | 40°                 |             |                   |                   |                    |                    |                      |                      |         |  |
|                | LL04OS-GKxxL06  | 37 x 9.8     | 40° 60°             |             |                   |                   |                    |                    |                      |                      |         |  |
| 6 in 1         | LL06CR-RXxxL06  | 50 x 9.65    | 40° 60°             |             |                   |                   |                    |                    |                      |                      |         |  |
| 7 in 1         | LL07CR-RXxxL06  | 50 x 10.3    | 40° 60°             |             |                   |                   |                    |                    |                      |                      |         |  |
|                | LL07ED-UYxxL06  | 47 x 10.3    | 40°                 |             |                   |                   |                    |                    |                      |                      |         |  |
|                | LL07OS-GKxxL06  | 47 x 9.8     | 40° 60°             |             |                   |                   |                    |                    |                      |                      |         |  |

▶ **Lighting source confirmation:**

LED manufacturer/ Type of LED/ LED spec/ LED sample is required  
The LED position layout is needed

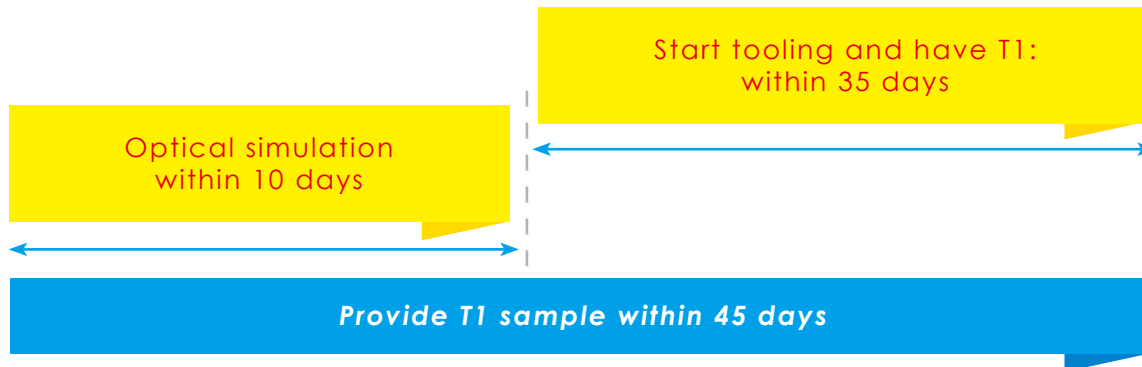
▶ **Optical requirements confirmation:**

Required beam angle (in full view)/ if in half view, the light intensity curve is needed  
Other luminance demands, such as uniformity, certain level of lux in a specific area from a certain distance

▶ **Mechanical requirements confirmation:**

The limitation of dimensions is necessary

▶ **Installed environment/ application/ other specific requirements, such as material:**





Street Lens



Color Mixing  
Lens



Elliptical-Beam  
Lens



Fresnel Lens



COB Lens

# PRODUCT ROADMAP



Hybrid Lens



Thermal Conductive  
Plastic  
Semi-Module



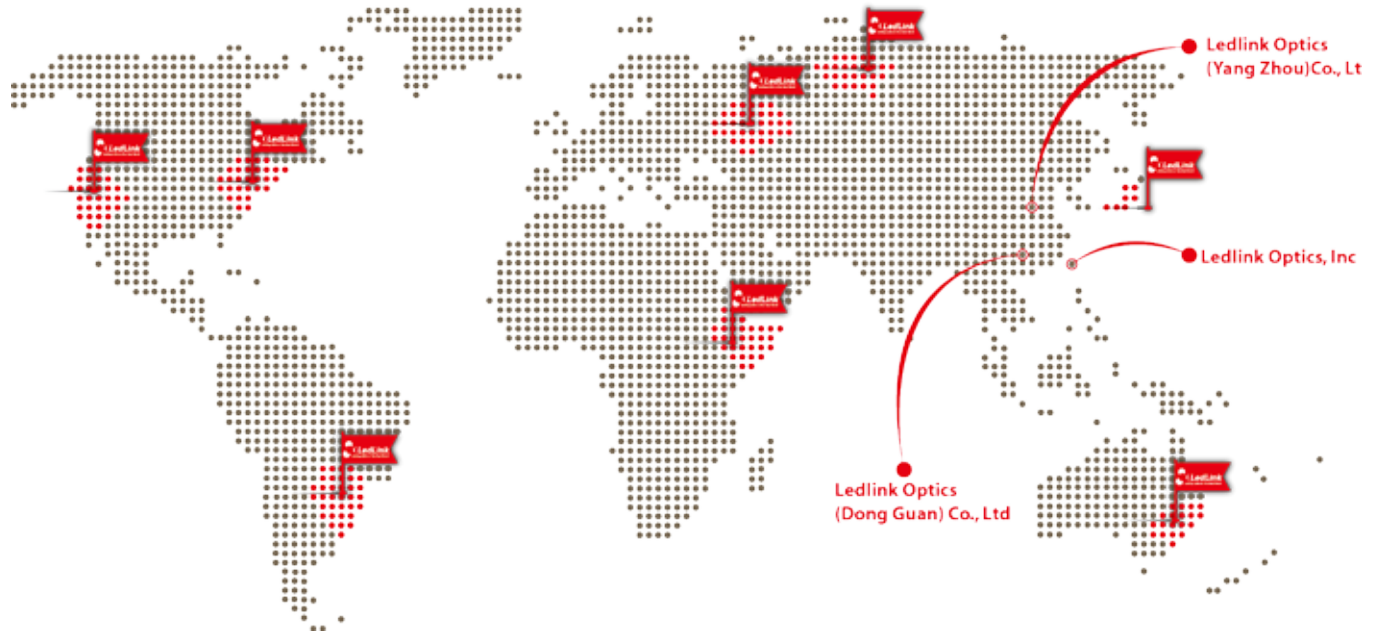
Plastic Plating Reflector  
Aluminum Stamping Reflector



Automobile  
Optics



Omnidirectional  
Bulb



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## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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