

## AMY-35-M

~24° medium beam

## SPECIFICATION:

|                |        |
|----------------|--------|
| Dimensions     | Ø 35.0 |
| Height         | 8.5 mm |
| Fastening      | socket |
| ROHS compliant | yes ⓘ  |

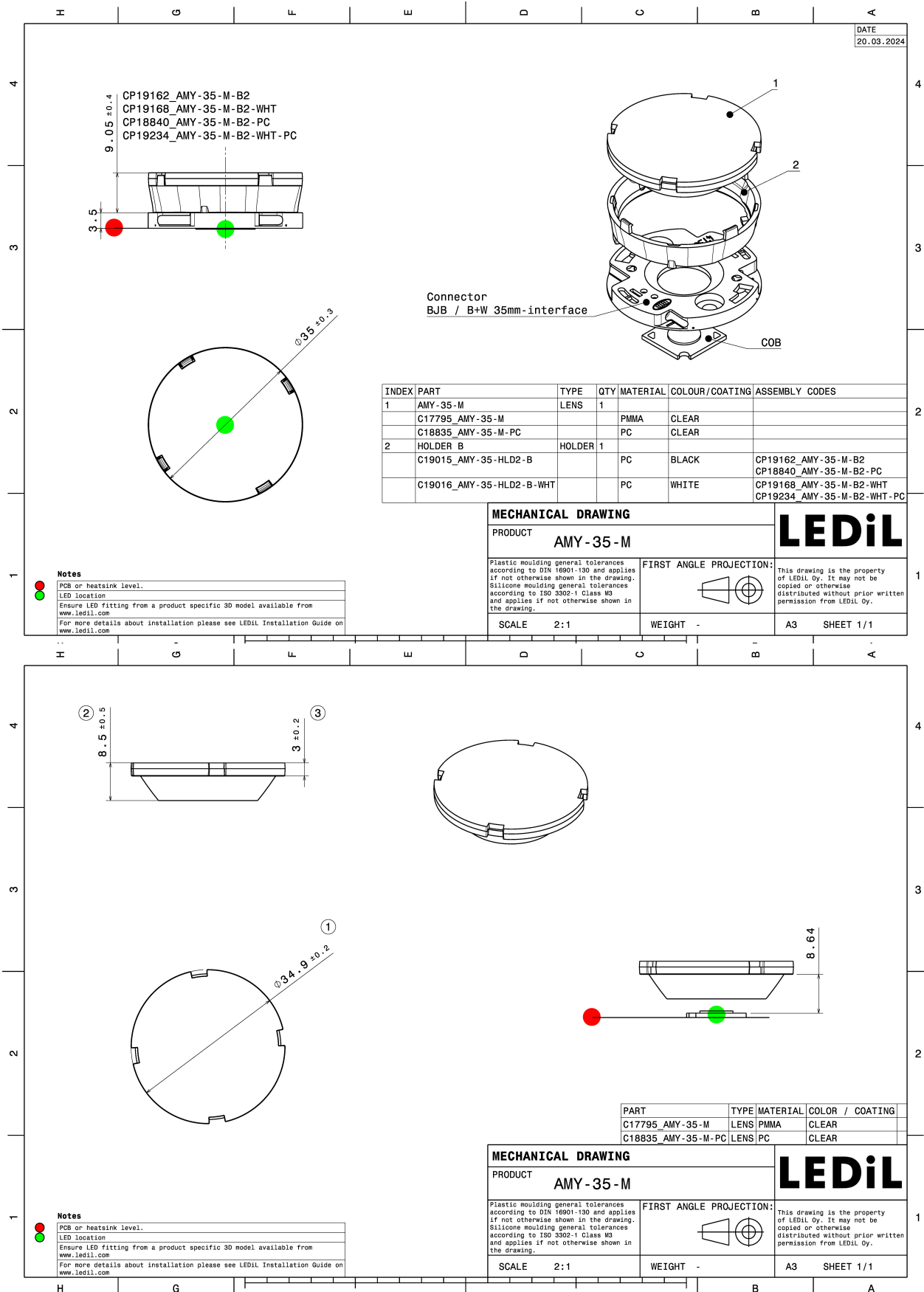
## MATERIALS:

| Component         | Type        | Material | Colour | Finish | Length (mm) |
|-------------------|-------------|----------|--------|--------|-------------|
| AMY-35-M          | Single lens | PMMA     | clear  |        |             |
| AMY-35-HLD2-B     | Holder B    | PC       | black  |        |             |
| AMY-35-HLD2-B-WHT | Holder B    | PC       | white  |        |             |



## ORDERING INFORMATION:

| Component               | Qty in box | MOQ | MPQ | Box weight (kg) |
|-------------------------|------------|-----|-----|-----------------|
| C17795_AMY-35-M         | 1650       | 132 | 66  | 9.8             |
| <b>Assembly</b>         |            |     |     |                 |
| CP19168_AMY-35-M-B2-WHT | 1320       | 132 | 66  | 9.6             |
| CP19162_AMY-35-M-B2     | 1320       | 132 | 66  | 0.0             |

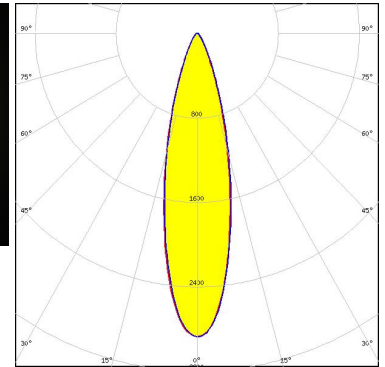
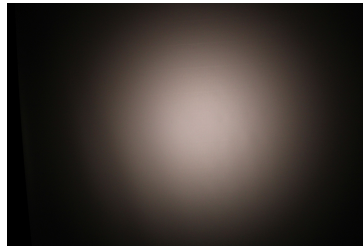


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

### OPTICAL RESULTS (MEASURED):



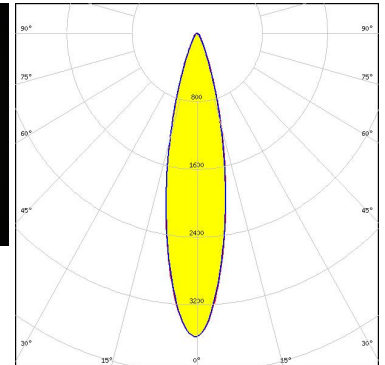
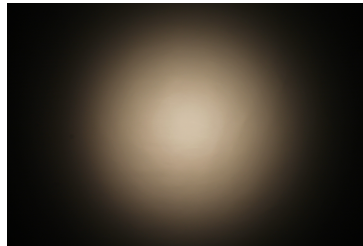
**LED** Vesta TW 6mm DP  
**Ordering code** CP19162\_AMY-35-M-B2  
**FWHM / FWTM** 26.0° / 53.0°  
**Efficiency** 89 %  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 Bender Wirth: 504 Typ B35L



Light distribution files

### CITIZEN

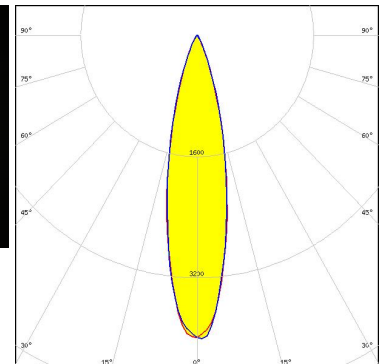
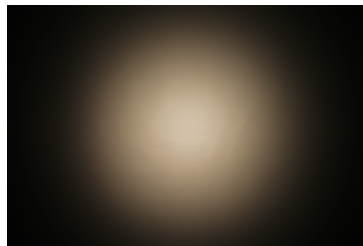
**LED** CLU700/701/702/703  
**Ordering code** C17795\_AMY-35-M  
**FWHM / FWTM** 23.0° / 47.0°  
**Efficiency** 90 %  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files

### CITIZEN

**LED** CLU700/701/702/703  
**Ordering code** CP19162\_AMY-35-M-B2  
**FWHM / FWTM** 23.0° / 47.0°  
**Efficiency** 90 %  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**  
 BJB: 47.360.1020



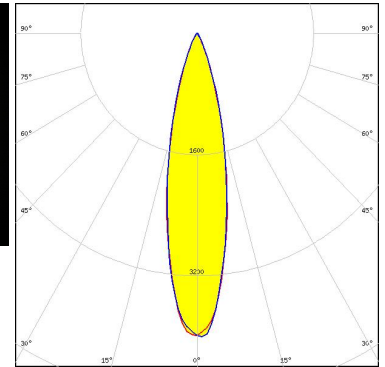
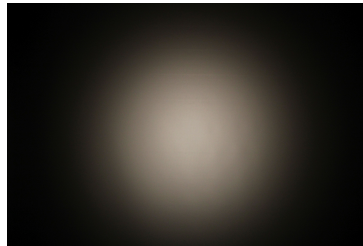
Light distribution files



### OPTICAL RESULTS (MEASURED):

#### CITIZEN

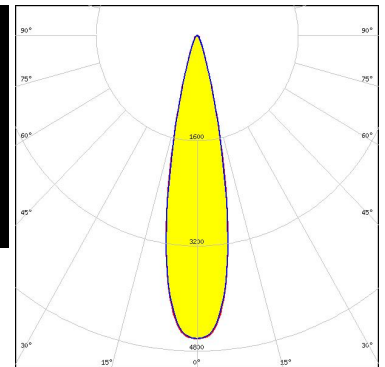
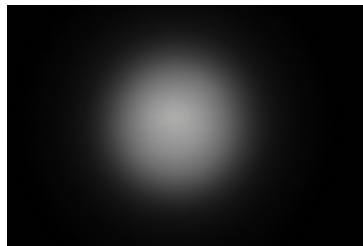
LED CLU700/701/702/703  
 Ordering code CP19162\_AMY-35-M-B2  
 FWHM / FWTM 23.0° / 46.0°  
 Efficiency 91 %  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 Bender Wirth: 634a Bayonet35L



Light distribution files

#### CITIZEN

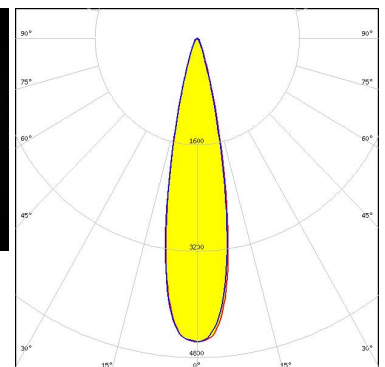
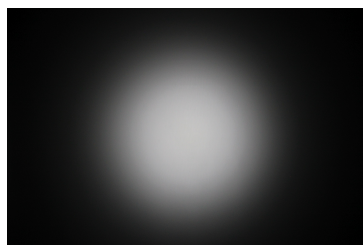
LED CLU7L3  
 Ordering code CP19162\_AMY-35-M-B2  
 FWHM / FWTM 23.0° / 39.0°  
 Efficiency 93 %  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 Bender Wirth: 667a Bayonet35



Light distribution files

#### CITIZEN

LED CLU7L3  
 Ordering code CP19162\_AMY-35-M-B2  
 FWHM / FWTM 23.0° / 39.0°  
 Efficiency 92 %  
 Peak intensity 4.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C19425\_SOCKET-B-35-N

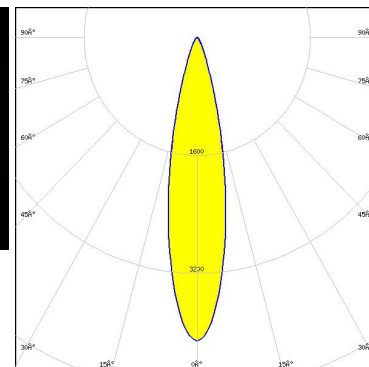
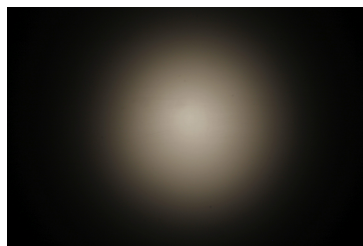


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### CITIZEN

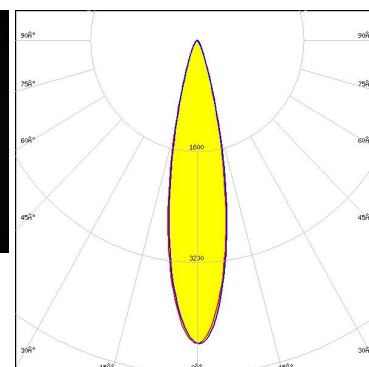
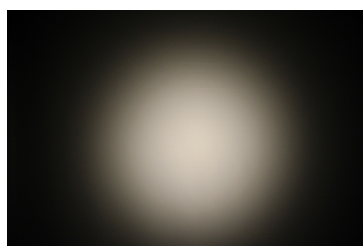
LED CLU7R3  
 Ordering code CP19162\_AMY-35-M-B2  
 FWHM / FWTM 22.0° / 44.0°  
 Efficiency 92 %  
 Peak intensity 4.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C19424\_SOCKET-B-35-M



Light distribution files

#### CITIZEN

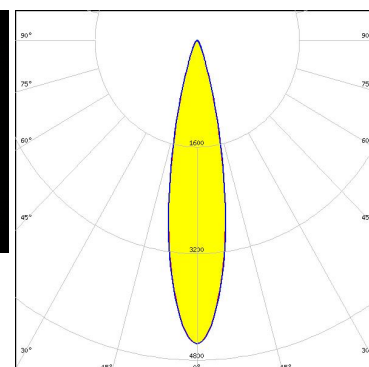
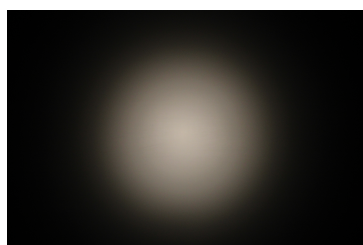
LED CLU7S3  
 Ordering code CP17971\_AMY-35-M-B  
 FWHM / FWTM 22.0° / 42.0°  
 Efficiency 92 %  
 Peak intensity 4.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C19425\_SOCKET-B-35-N



Light distribution files

#### CITIZEN

LED CLU7S3  
 Ordering code CP19162\_AMY-35-M-B2  
 FWHM / FWTM 22.0° / 41.0°  
 Efficiency 92 %  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 Bender Wirth: 667a Bayonet35

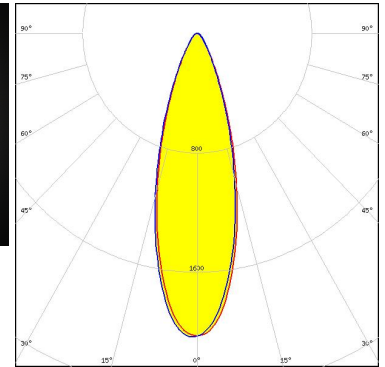
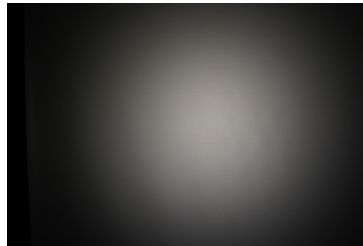


Light distribution files

### OPTICAL RESULTS (MEASURED):



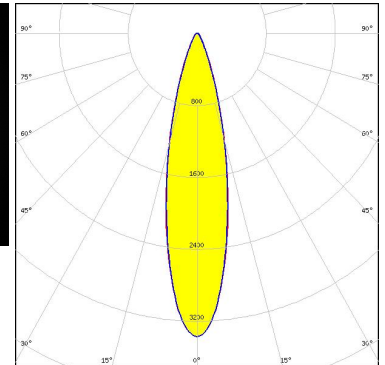
LED CMU10xx  
 Ordering code CP19162\_AMY-35-M-B2  
 FWHM / FWTM 31.0° / 62.0°  
 Efficiency 88 %  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 BJB: 47.360.1020



Light distribution files



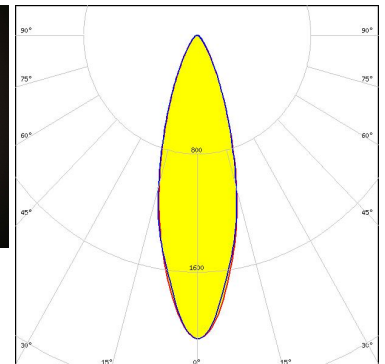
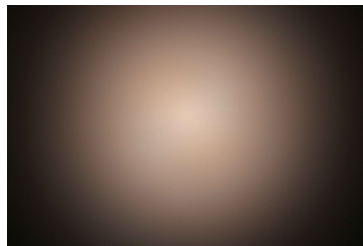
LED LUXEON 7070  
 Ordering code CP19162\_AMY-35-M-B2  
 FWHM / FWTM 24.0° / 49.0°  
 Efficiency 91 %  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 Bender Wirth: 634a Bayonet35L



Light distribution files



LED CTM-9 (Tunable White)  
 Ordering code CP19162\_AMY-35-M-B2  
 FWHM / FWTM 31.0° / 63.0°  
 Efficiency 86 %  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 Bender Wirth: 495 Typ B35L



Light distribution files

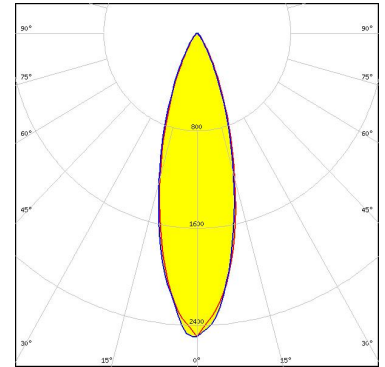
### OPTICAL RESULTS (SIMULATED):



LED V10 Gen 8-9  
 Ordering code CP19162\_AMY-35-M-B2  
 FWHM / FWTM 28.0° / 57.0°  
 Efficiency 89 %  
 Peak intensity 2.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

BJB: 47.360.1020

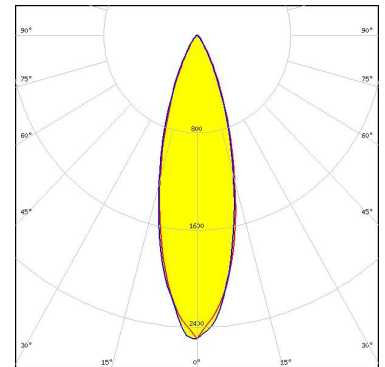
Light distribution files



LED V10 Gen 8-9  
 Ordering code CP19162\_AMY-35-M-B2  
 FWHM / FWTM 30.0° / 59.0°  
 Efficiency 91 %  
 Peak intensity 2.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

Bender Wirth: 634b Bayonet35L

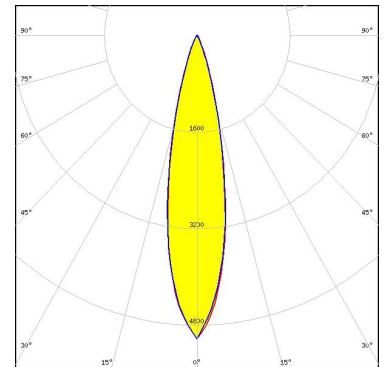
Light distribution files



LED V3 HD Gen 8 FC  
 Ordering code CP19162\_AMY-35-M-B2  
 FWHM / FWTM 22.0° / 42.0°  
 Efficiency 95 %  
 Peak intensity 5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

Bender Wirth: 634c Bayonet35L

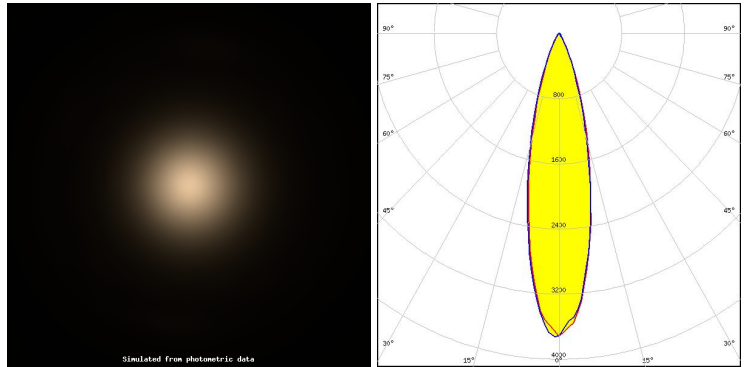
Light distribution files



### OPTICAL RESULTS (SIMULATED):



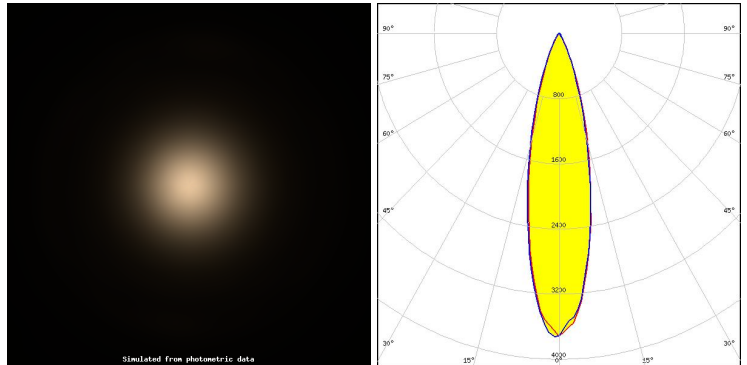
LED V6 HD Gen 8  
 Ordering code CP19162\_AMY-35-M-B2  
 FWHM / FWTM 24.0° / 47.0°  
 Efficiency 92 %  
 Peak intensity 4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C18968\_SOCKET-B-35-C



Light distribution files



LED V6 HD Gen 8  
 Ordering code CP19162\_AMY-35-M-B2  
 FWHM / FWTM 24.0° / 49.0°  
 Efficiency 92 %  
 Peak intensity 3.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

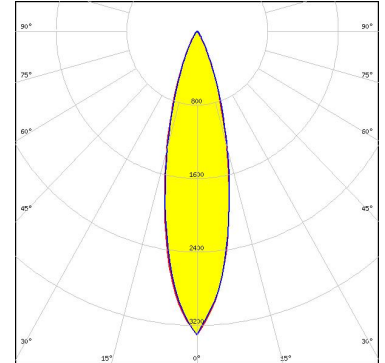


Light distribution files

Bender Wirth: 634c Bayonet35L



LED V8 Gen 8-9  
 Ordering code CP19162\_AMY-35-M-B2  
 FWHM / FWTM 26.0° / 51.0°  
 Efficiency 90 %  
 Peak intensity 3.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C19309\_SOCKET-B-35-L

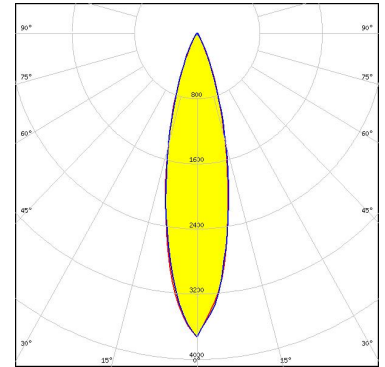


Light distribution files

### OPTICAL RESULTS (SIMULATED):



LED Vesta DTW 6mm  
 Ordering code CP19162\_AMY-35-M-B2  
 FWHM / FWTM 24.0° / 50.0°  
 Efficiency 93 %  
 Peak intensity 3.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

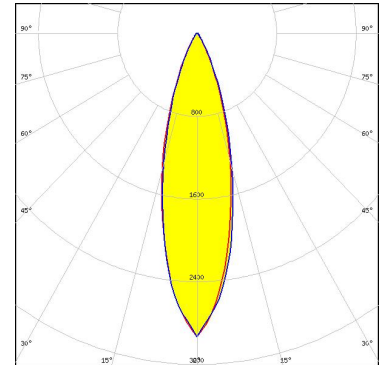


Bender Wirth: 652b Bayonet35L

Light distribution files



LED Vesta DTW 9mm (4W/6W/12W)  
 Ordering code CP19162\_AMY-35-M-B2  
 FWHM / FWTM 28.0° / 55.0°  
 Efficiency 92 %  
 Peak intensity 2.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

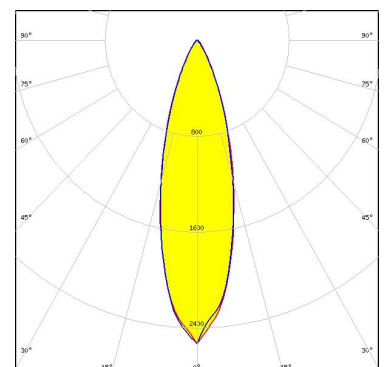


Bender Wirth: 652b Bayonet35L

Light distribution files

### CITIZEN

LED CLU02x (LES10)  
 Ordering code CP19162\_AMY-35-M-B2  
 FWHM / FWTM 29.0° / 59.0°  
 Efficiency 89 %  
 Peak intensity 2.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



BJB: 47.360.1020

Light distribution files

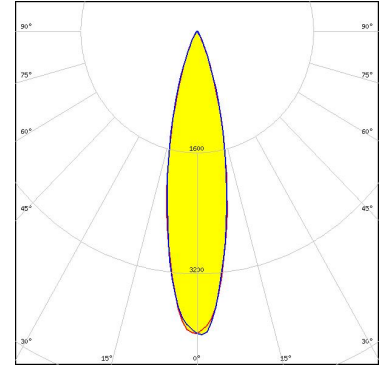
### OPTICAL RESULTS (SIMULATED):

#### CITIZEN

|                      |                     |
|----------------------|---------------------|
| LED                  | CLU700/701/702/703  |
| Ordering code        | CP19162_AMY-35-M-B2 |
| FWHM / FWTM          | 24.0° / 46.0°       |
| Efficiency           | 91 %                |
| Peak intensity       | 4 cd/lm             |
| LEDs/each optic      | 1                   |
| Light colour/type    | White               |
| Required components: |                     |

BJB: 47.360.1020

Light distribution files

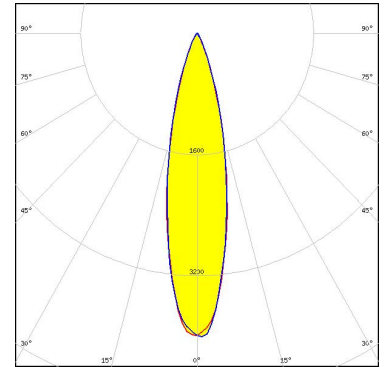


#### CITIZEN

|                      |                     |
|----------------------|---------------------|
| LED                  | CLU700/701/702/703  |
| Ordering code        | CP19162_AMY-35-M-B2 |
| FWHM / FWTM          | 24.0° / 46.0°       |
| Efficiency           | 90 %                |
| Peak intensity       | 4 cd/lm             |
| LEDs/each optic      | 1                   |
| Light colour/type    | White               |
| Required components: |                     |

BJB: 47.360.1020

Light distribution files

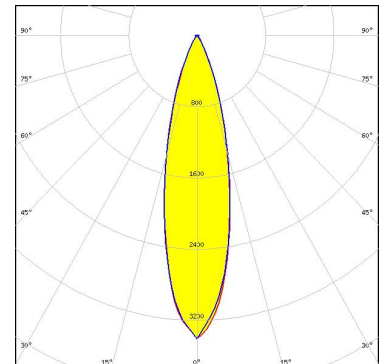


#### CITIZEN

|                      |                     |
|----------------------|---------------------|
| LED                  | CLU703 Type-F       |
| Ordering code        | CP19162_AMY-35-M-B2 |
| FWHM / FWTM          | 26.0° / 51.0°       |
| Efficiency           | 92 %                |
| Peak intensity       | 3.4 cd/lm           |
| LEDs/each optic      | 1                   |
| Light colour/type    | White               |
| Required components: |                     |

BJB: 47.360.1020

Light distribution files





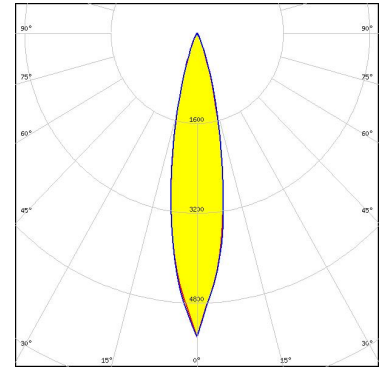
### OPTICAL RESULTS (SIMULATED):

#### CITIZEN

|                      |                     |
|----------------------|---------------------|
| LED                  | CLU7A2/7A3          |
| Ordering code        | CP19162_AMY-35-M-B2 |
| FWHM / FWTM          | 20.0° / 40.0°       |
| Efficiency           | 93 %                |
| Peak intensity       | 5.4 cd/lm           |
| LEDs/each optic      | 1                   |
| Light colour/type    | White               |
| Required components: |                     |

BJB: 47.360.1020

Light distribution files

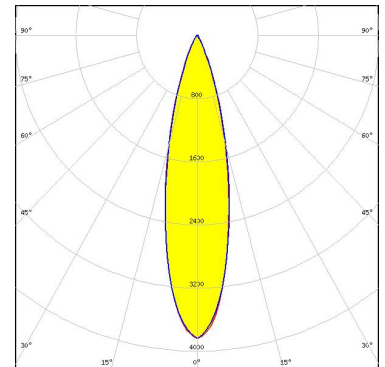


#### CITIZEN

|                      |                      |
|----------------------|----------------------|
| LED                  | CLU7A3 Type-F        |
| Ordering code        | CP19162_AMY-35-M-B2  |
| FWHM / FWTM          | 24.0 + 25.0° / 48.0° |
| Efficiency           | 93 %                 |
| Peak intensity       | 3.8 cd/lm            |
| LEDs/each optic      | 1                    |
| Light colour/type    | White                |
| Required components: |                      |

BJB: 47.360.1020

Light distribution files

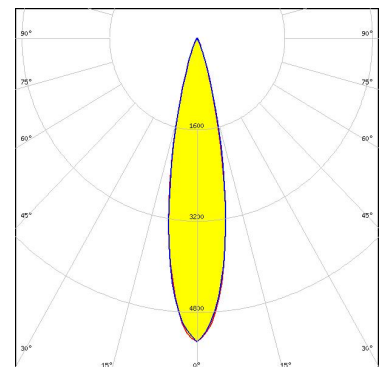


#### CITIZEN

|                      |                     |
|----------------------|---------------------|
| LED                  | CLU7B2              |
| Ordering code        | CP19162_AMY-35-M-B2 |
| FWHM / FWTM          | 22.0° / 40.0°       |
| Efficiency           | 93 %                |
| Peak intensity       | 5.3 cd/lm           |
| LEDs/each optic      | 1                   |
| Light colour/type    | White               |
| Required components: |                     |

BJB: 47.360.1020

Light distribution files

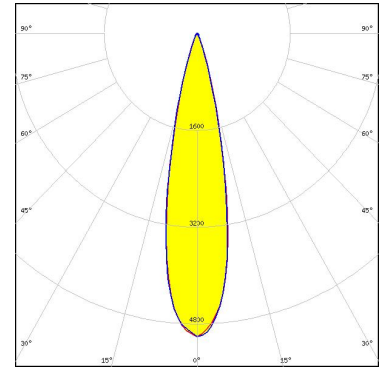




### OPTICAL RESULTS (SIMULATED):

#### CITIZEN

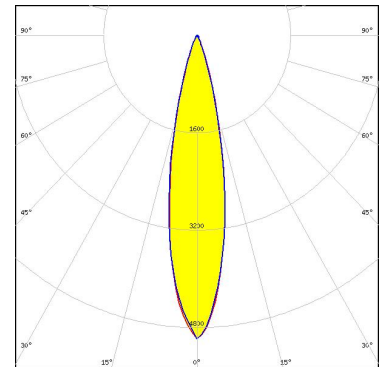
LED CLU7L3  
 Ordering code CP19162\_AMY-35-M-B2  
 FWHM / FWTM 22.0° / 38.0°  
 Efficiency 90 %  
 Peak intensity 5.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C19425\_SOCKET-B-35-N



Light distribution files

#### CITIZEN

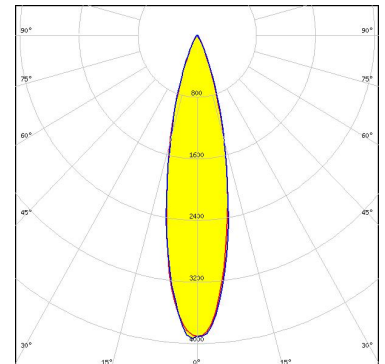
LED CLU7S3  
 Ordering code CP19162\_AMY-35-M-B2  
 FWHM / FWTM 22.0° / 40.0°  
 Efficiency 89 %  
 Peak intensity 5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C19425\_SOCKET-B-35-N



Light distribution files



LED CMA1306  
 Ordering code CP19162\_AMY-35-M-B2  
 FWHM / FWTM 24.0° / 47.0°  
 Efficiency 93 %  
 Peak intensity 4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Bender Wirth: 634c Bayonet35L

Light distribution files

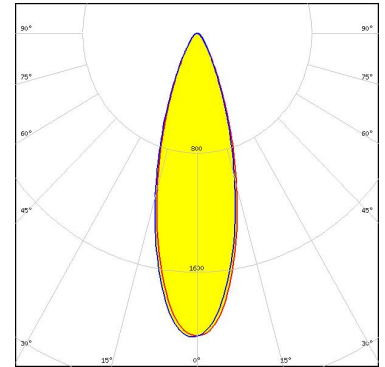
### OPTICAL RESULTS (SIMULATED):



LED CMU10xx  
 Ordering code CP19162\_AMY-35-M-B2  
 FWHM / FWTM 30.0° / 58.0°  
 Efficiency 88 %  
 Peak intensity 2.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

BJB: 47.360.1020

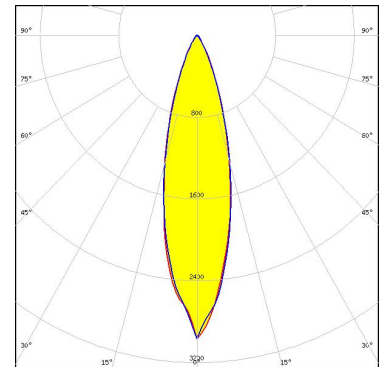
Light distribution files



LED CXA/B 15xx  
 Ordering code CP19162\_AMY-35-M-B2  
 FWHM / FWTM 26.0° / 54.0°  
 Efficiency 89 %  
 Peak intensity 3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

BJB: 47.360.1030

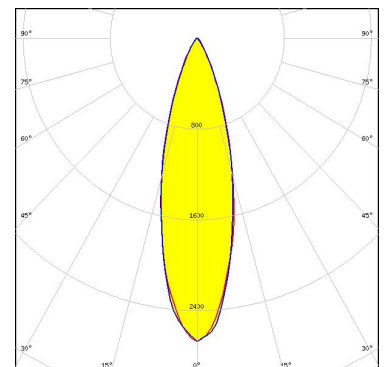
Light distribution files



LED CXA/B 15xx  
 Ordering code CP19162\_AMY-35-M-B2  
 FWHM / FWTM 28.0° / 56.0°  
 Efficiency 88 %  
 Peak intensity 2.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

BJB: 47.360.1030

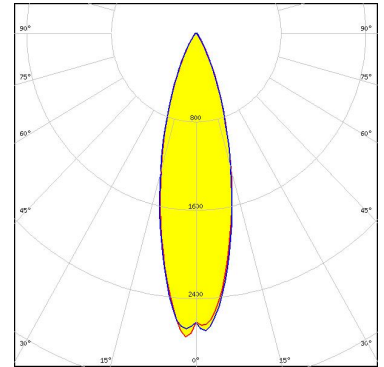
Light distribution files



### OPTICAL RESULTS (SIMULATED):



LED LUXEON CoB 1202/1203  
 Ordering code CP19162\_AMY-35-M-B2  
 FWHM / FWTM 28.0° / 56.0°  
 Efficiency 91 %  
 Peak intensity 2.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

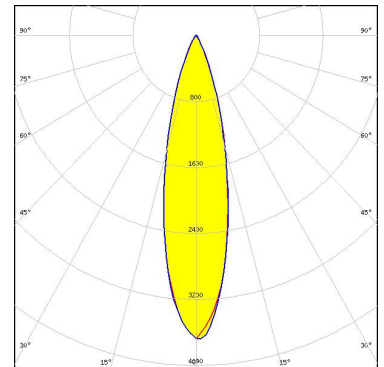


BJB: 47.360.1110

Light distribution files



LED LUXEON CoB 1202HD  
 Ordering code CP19162\_AMY-35-M-B2  
 FWHM / FWTM 26.0° / 50.0°  
 Efficiency 94 %  
 Peak intensity 3.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

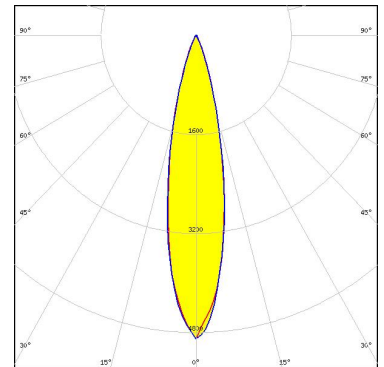


Bender Wirth: 652a Bayonet35L

Light distribution files



LED LUXEON CX Plus CoB - HD S01H4  
 Ordering code CP19162\_AMY-35-M-B2  
 FWHM / FWTM 22.0° / 42.0°  
 Efficiency 94 %  
 Peak intensity 4.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



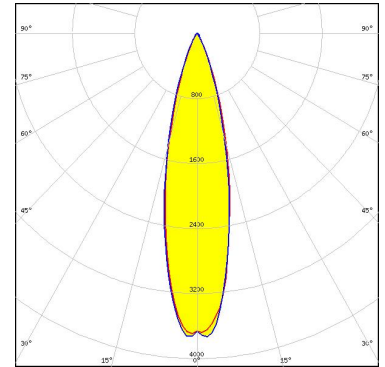
Bender Wirth: 634c Bayonet35L

Light distribution files

### OPTICAL RESULTS (SIMULATED):



LED LUXEON CX Plus CoB - HD S02H6  
 Ordering code CP19162\_AMY-35-M-B2  
 FWHM / FWTM 26.0° / 49.0°  
 Efficiency 93 %  
 Peak intensity 3.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

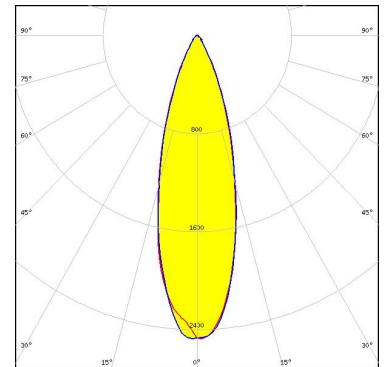


Bender Wirth: 634c Bayonet35L

Light distribution files



LED LUXEON CX Plus CoB - HD S04H9  
 Ordering code CP19162\_AMY-35-M-B2  
 FWHM / FWTM 30.0° / 59.0°  
 Efficiency 91 %  
 Peak intensity 2.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

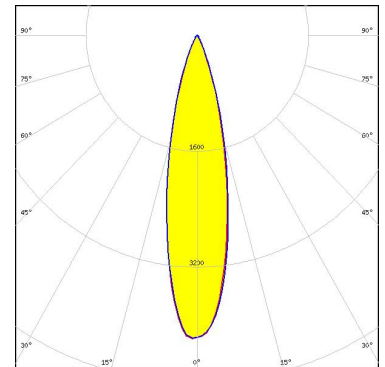


Bender Wirth: 634a Bayonet35L

Light distribution files



LED LUXEON CX Plus CoB S01 (Gen2)  
 Ordering code CP19162\_AMY-35-M-B2  
 FWHM / FWTM 24.0° / 46.0°  
 Efficiency 93 %  
 Peak intensity 4.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Bender Wirth: 634c Bayonet35L

Light distribution files

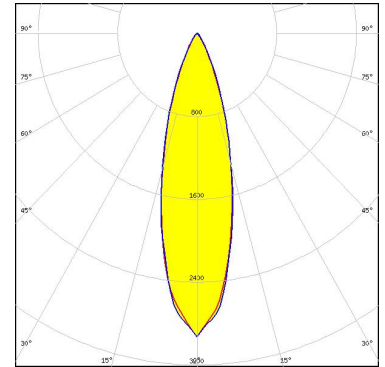
### OPTICAL RESULTS (SIMULATED):



LED CTM-6 (Tunable White) Gen2  
 Ordering code CP19162\_AMY-35-M-B2  
 FWHM / FWTM 28.0° / 55.0°  
 Efficiency 92 %  
 Peak intensity 2.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type Tunable White  
 Required components:

Bender Wirth: 495 Typ B35L

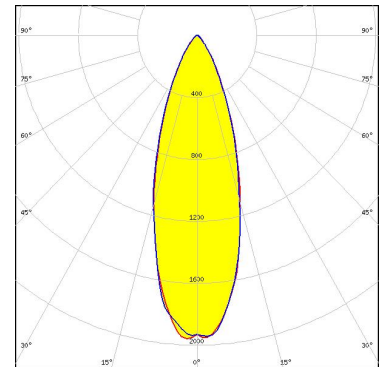
Light distribution files



LED CTM-9 (Tunable White) Gen2  
 Ordering code CP19162\_AMY-35-M-B2  
 FWHM / FWTM 34.0° / 68.0°  
 Efficiency 90 %  
 Peak intensity 2 cd/lm  
 LEDs/each optic 1  
 Light colour/type Tunable White  
 Required components:

Bender Wirth: 495 Typ B35L

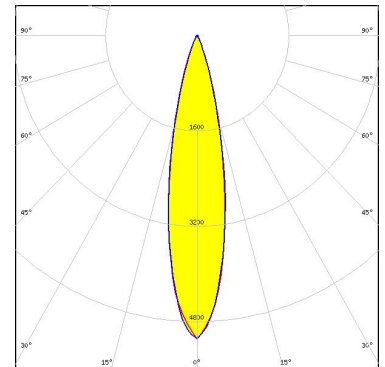
Light distribution files



LED CXM-4  
 Ordering code CP19162\_AMY-35-M-B2  
 FWHM / FWTM 22.0° / 41.0°  
 Efficiency 94 %  
 Peak intensity 5.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

Bender Wirth: 634a Bayonet35L

Light distribution files

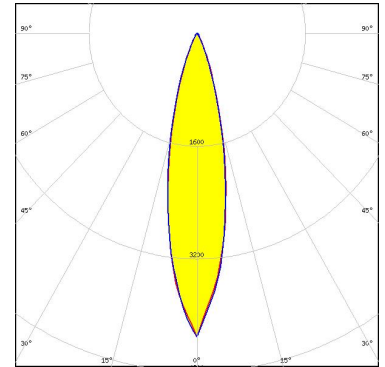


### OPTICAL RESULTS (SIMULATED):



LED CxM-6 (13.5x13.5)  
 Ordering code CP19162\_AMY-35-M-B2  
 FWHM / FWTM 23.0° / 46.0°  
 Efficiency 93 %  
 Peak intensity 4.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

BJB: 47.360.1020

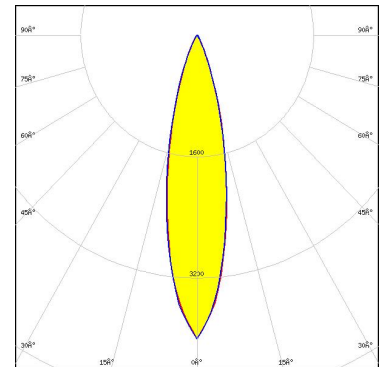


Light distribution files



LED CxM-6 (13.5x13.5)  
 Ordering code CP19168\_AMY-35-M-B2-WHT  
 FWHM / FWTM 24.0° / 47.0°  
 Efficiency 93 %  
 Peak intensity 4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

Bender Wirth: 634a Bayonet35L

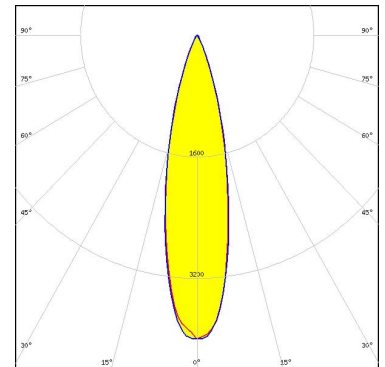


Light distribution files



LED COB S-Type (LES 6)  
 Ordering code CP19162\_AMY-35-M-B2  
 FWHM / FWTM 24.0° / 46.0°  
 Efficiency 93 %  
 Peak intensity 4.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

Bender Wirth: 652a Bayonet35L

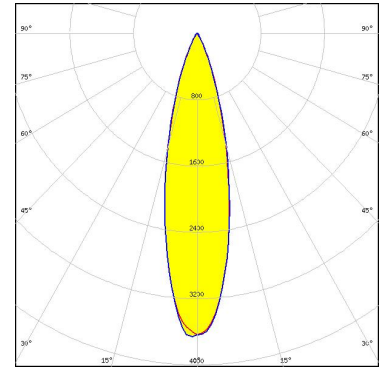


Light distribution files

### OPTICAL RESULTS (SIMULATED):



LED COB S-Type (LES 7)  
 Ordering code CP19162\_AMY-35-M-B2  
 FWHM / FWTM 26.0° / 50.0°  
 Efficiency 93 %  
 Peak intensity 3.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

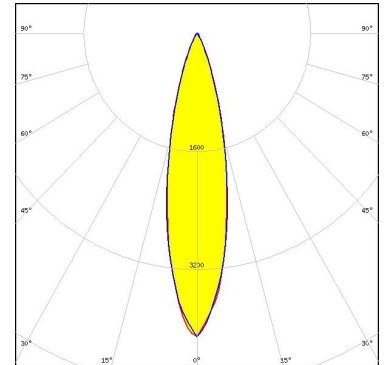


Bender Wirth: 652a Bayonet35L

Light distribution files



LED COB T-Type  
 Ordering code CP19162\_AMY-35-M-B2  
 FWHM / FWTM 24.0° / 47.0°  
 Efficiency 93 %  
 Peak intensity 4.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

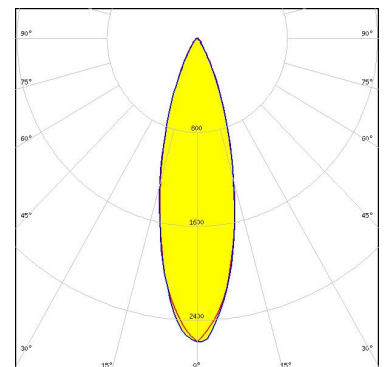


Bender Wirth: 652a Bayonet35L

Light distribution files



LED LC003D / LC006D / LC009D / LC013D  
 Ordering code CP19162\_AMY-35-M-B2  
 FWHM / FWTM 30.0° / 58.0°  
 Efficiency 91 %  
 Peak intensity 2.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



BJB: 47.360.1020

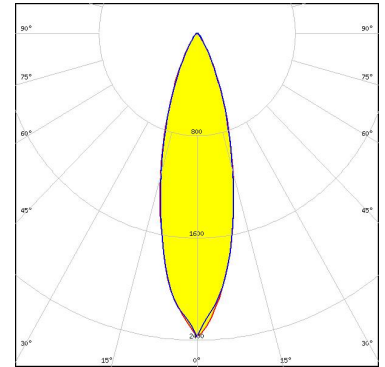
Light distribution files



### OPTICAL RESULTS (SIMULATED):

#### SAMSUNG

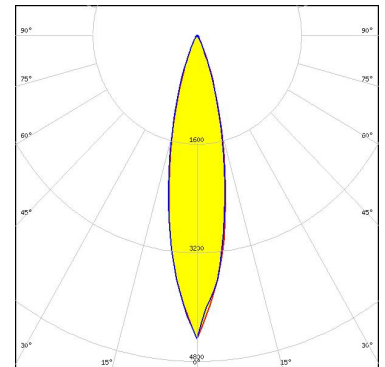
LED LC003D / LC006D / LC009D / LC013D  
 Ordering code CP19162\_AMY-35-M-B2  
 FWHM / FWTM 29.0° / 58.0°  
 Efficiency 84 %  
 Peak intensity 2.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:  
 C18968\_SOCKET-B-35-C



Light distribution files

#### SAMSUNG

LED LC010C G2  
 Ordering code CP19162\_AMY-35-M-B2  
 FWHM / FWTM 22.0° / 46.0°  
 Efficiency 93 %  
 Peak intensity 4.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

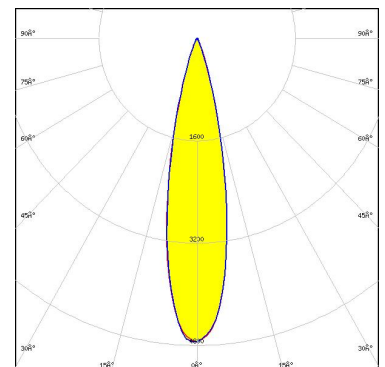


Light distribution files

BJB: 47.360.1020

#### SAMSUNG

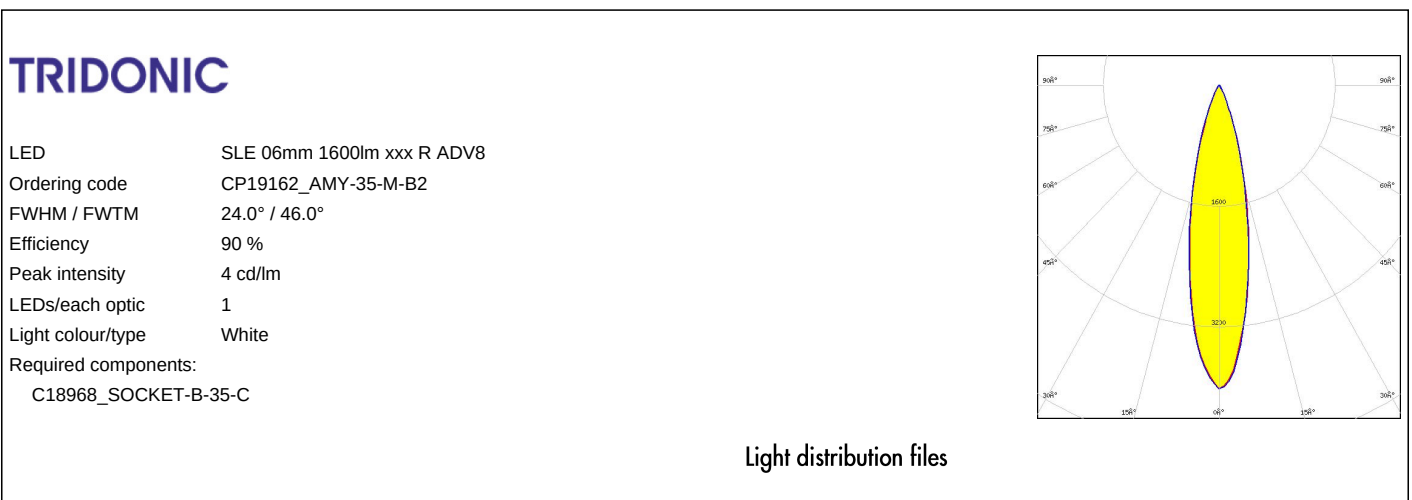
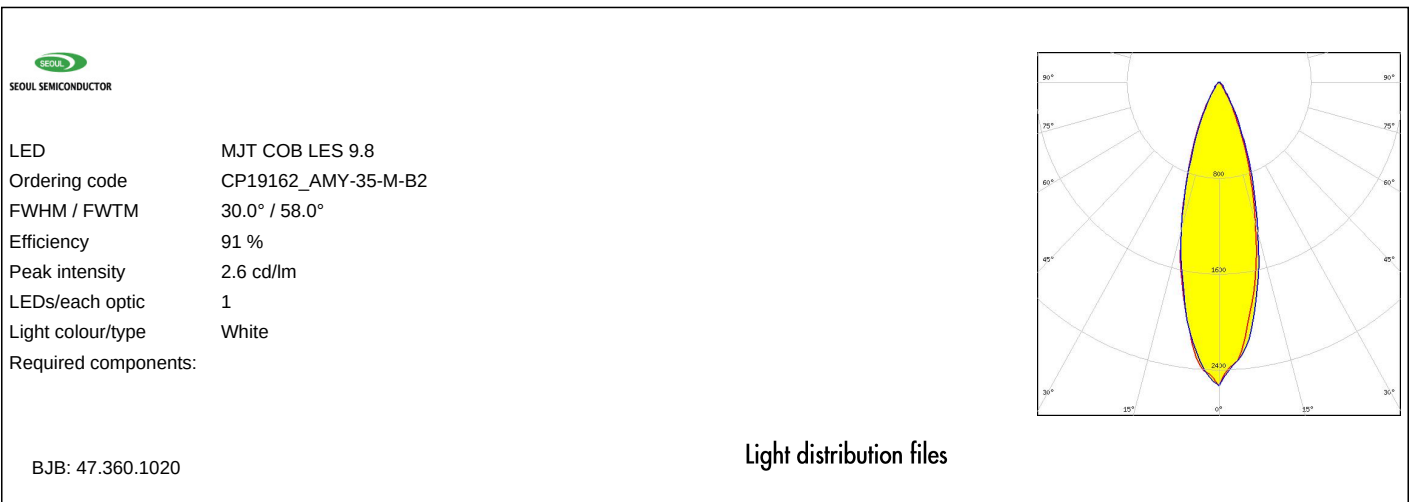
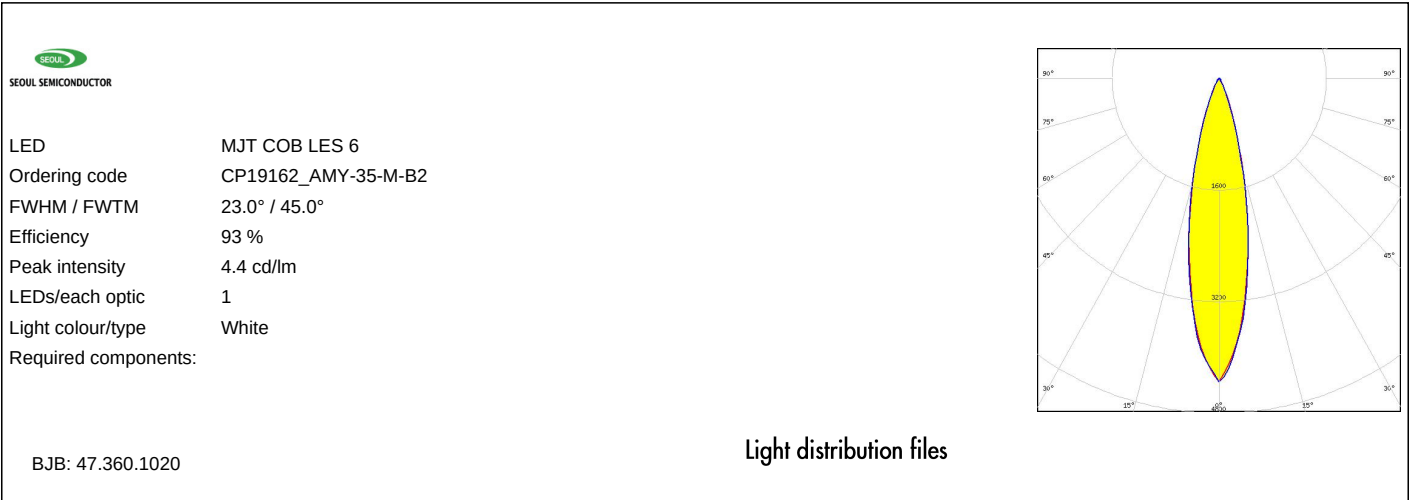
LED LH502D  
 Ordering code CP19162\_AMY-35-M-B2  
 FWHM / FWTM 22.0° / 40.0°  
 Efficiency 89 %  
 Peak intensity 4.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

BJB: 47.360.1010

### OPTICAL RESULTS (SIMULATED):

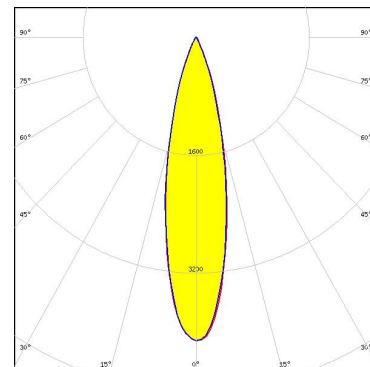


### OPTICAL RESULTS (SIMULATED):

#### TRIDONIC

|                      |                     |
|----------------------|---------------------|
| LED                  | SLE SNC8 LES06      |
| Ordering code        | CP19162_AMY-35-M-B2 |
| FWHM / FWTM          | 24.0° / 46.0°       |
| Efficiency           | 93 %                |
| Peak intensity       | 4.1 cd/lm           |
| LEDs/each optic      | 1                   |
| Light colour/type    | White               |
| Required components: |                     |

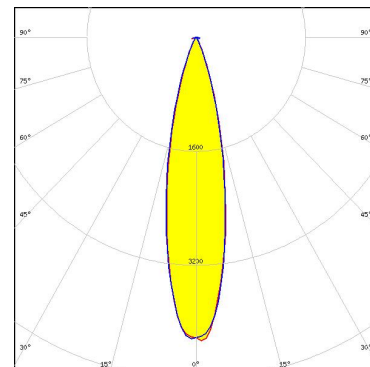
BJB: 47.360.1020



Light distribution files

#### XICATO

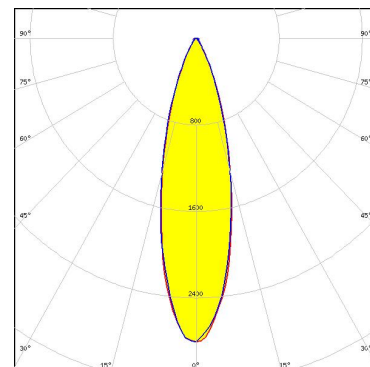
|                      |                 |
|----------------------|-----------------|
| LED                  | XOB 6 mm        |
| Ordering code        | C17795_AMY-35-M |
| FWHM / FWTM          | 23.0° / 44.0°   |
| Efficiency           | 95 %            |
| Peak intensity       | 4.3 cd/lm       |
| LEDs/each optic      | 1               |
| Light colour/type    | White           |
| Required components: |                 |



Light distribution files

#### XICATO

|                      |                 |
|----------------------|-----------------|
| LED                  | XOB 9.8 mm      |
| Ordering code        | C17795_AMY-35-M |
| FWHM / FWTM          | 28.0° / 55.0°   |
| Efficiency           | 93 %            |
| Peak intensity       | 2.8 cd/lm       |
| LEDs/each optic      | 1               |
| Light colour/type    | White           |
| Required components: |                 |



Light distribution files

### GENERAL INFORMATION:

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

Due to use of high power COB's with this product, special attention to proper thermal design is highly recommended. LEDiL has no liability for direct, indirect or consecutive damages arising from the LEDiL products being used outside of the recommended temperature range.

### MATERIALS:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

### PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

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