

## WINNIE-M

~35° medium beam. Holder with 35 mm screw hole distance according to Zhaga standard. Compatible with Bender+Wirth 4xx Typ L5 connector.

### TECHNICAL SPECIFICATIONS:

Dimensions	Ø 49.8 mm
Height	19.3 mm
Fastening	screw
ROHS compliant	yes 

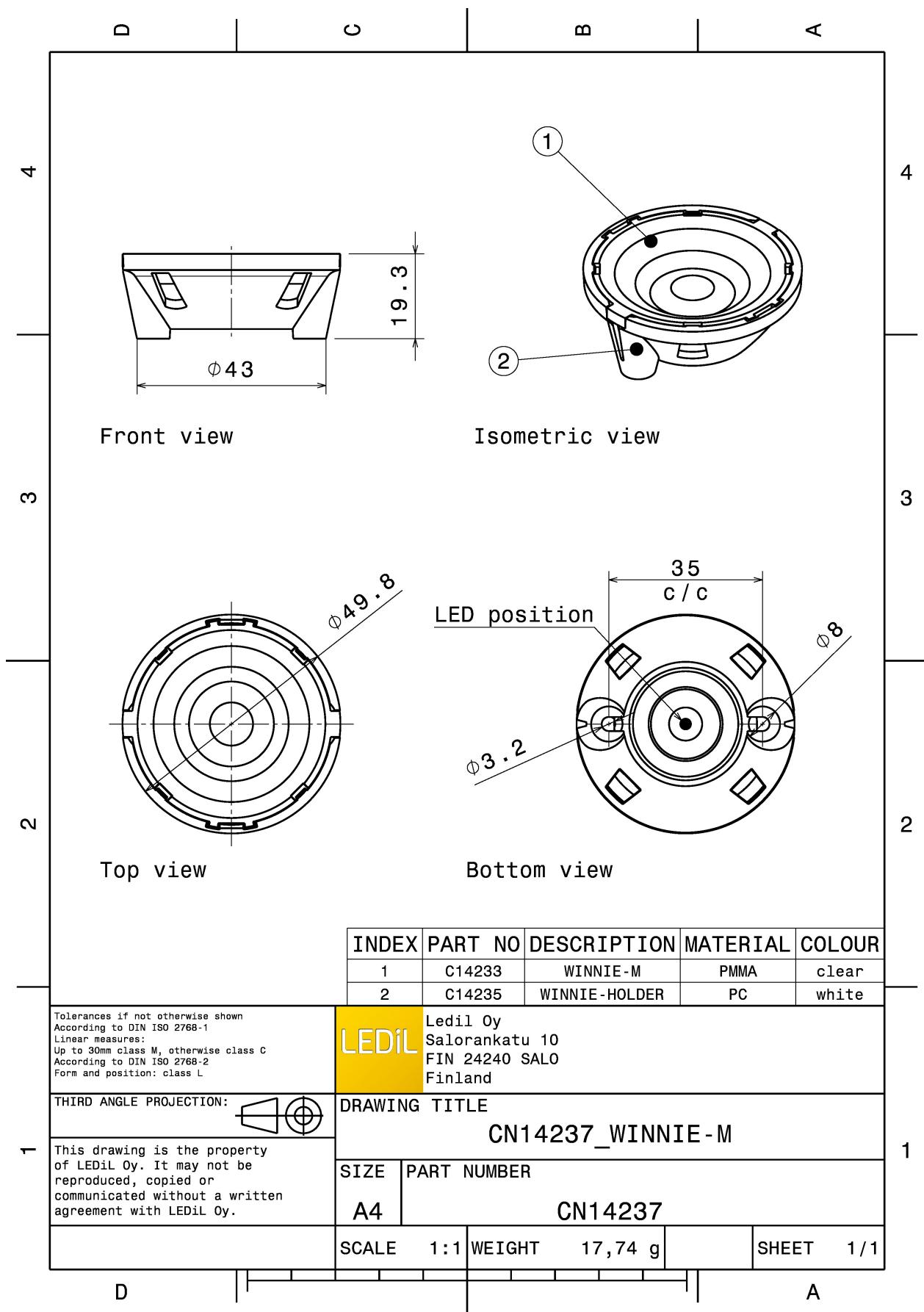


### MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
WINNIE-M	Single lens	PMMA	clear	
WINNIE-HOLDER	Holder	PC	white	

### ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
CN14237_WINNIE-M	364	84	28	0.0
» Box size:				

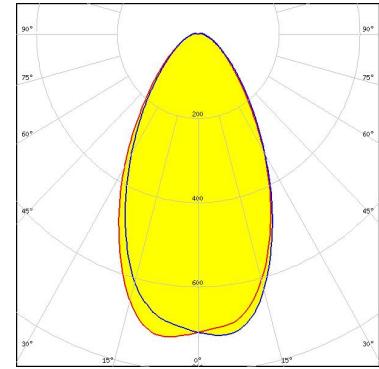
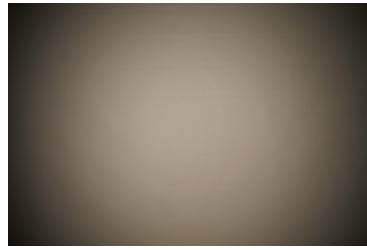


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

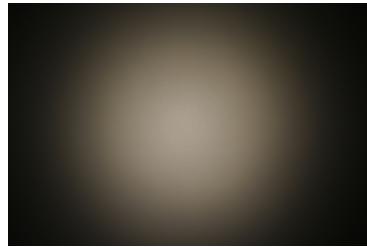
## PHOTOMETRIC DATA (MEASURED):



**LED** V18 Gen6  
**FWHM** 58.0°  
**Efficiency** 88 %  
**Peak intensity** 0.7 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**



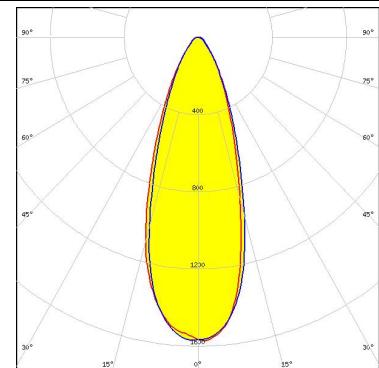
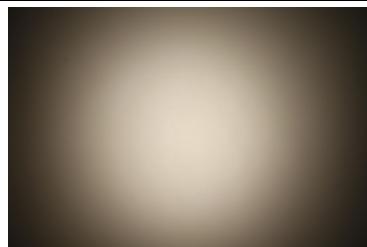
**LED** V6 Gen6  
**FWHM** 27.0°  
**Efficiency** 86 %  
**Peak intensity** 2.4 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**



**LED** V8 Gen6  
**FWHM** 31.0°  
**Efficiency** 85 %  
**Peak intensity** 1.8 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**



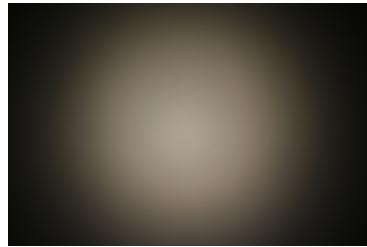
**LED** VERO10  
**FWHM** 36.0°  
**Efficiency** 89 %  
**Peak intensity** 1.6 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**



## PHOTOMETRIC DATA (MEASURED):

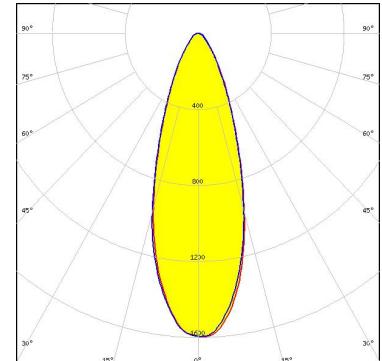
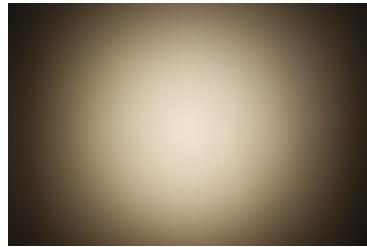
### CITIZEN

LED CLL01x  
 FWHM 27.0°  
 Efficiency 85 %  
 Peak intensity 2.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



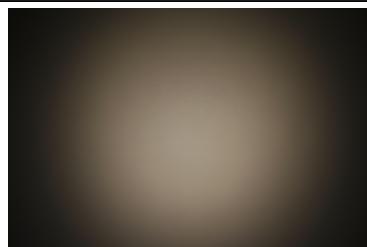
### CITIZEN

LED CLL02x/CLU02x (LES10)  
 FWHM 35.0°  
 Efficiency 86 %  
 Peak intensity 1.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 434 Typ L5



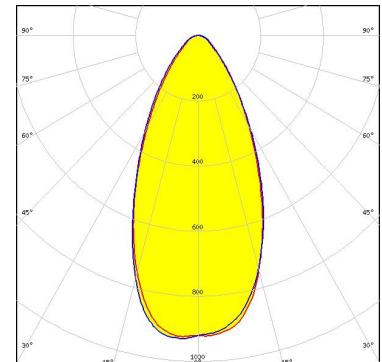
### CITIZEN

LED CLL02x/CLU02x (LES10)  
 FWHM 35.0°  
 Efficiency 87 %  
 Peak intensity 2.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### CITIZEN

LED CLL03x/CLU03x  
 FWHM 49.0°  
 Efficiency 86 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 433 Typ L5



## PHOTOMETRIC DATA (MEASURED):

### CITIZEN

LED CLU700/701/702

FWHM 27.0°

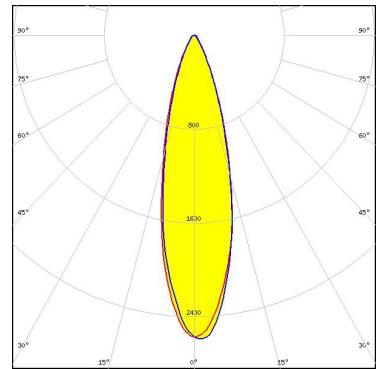
Efficiency 89 %

Peak intensity 2.6 cd/lm

LEDs/each optic 1

Light colour White

Required components:



### CITIZEN

LED CLU700/701/702

FWHM 28.0°

Efficiency 87 %

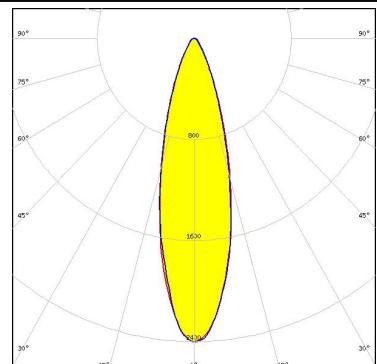
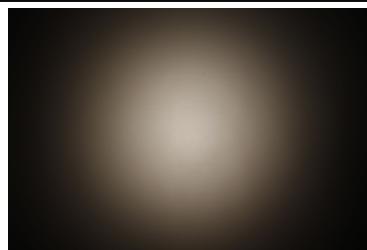
Peak intensity 2.4 cd/lm

LEDs/each optic 1

Light colour White

Required components:

Bender Wirth: 434 Typ L5



### CITIZEN

LED CLU710/711

FWHM 33.0°

Efficiency 87 %

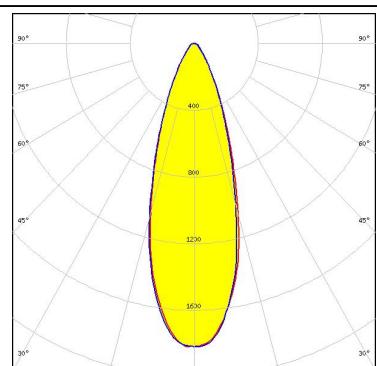
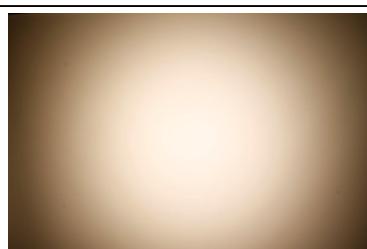
Peak intensity 1.8 cd/lm

LEDs/each optic 1

Light colour White

Required components:

Bender Wirth: 470 Typ L5



### CITIZEN

LED CLU710/711

FWHM 32.0°

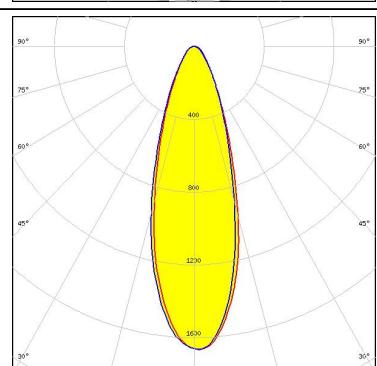
Efficiency 86 %

Peak intensity 1.7 cd/lm

LEDs/each optic 1

Light colour White

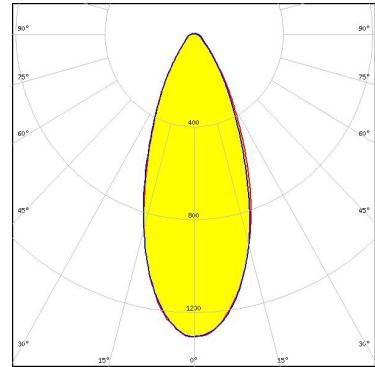
Required components:



## PHOTOMETRIC DATA (MEASURED):

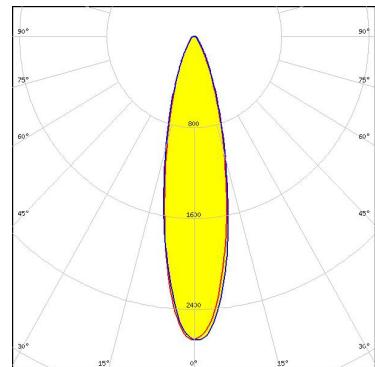
### CITIZEN

LED CLU720/721  
FWHM 41.0°  
Efficiency 90 %  
Peak intensity 1.3 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
Bender Wirth: 433 Typ L5



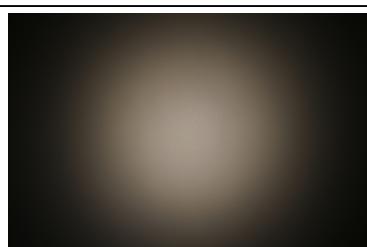
### CREE

LED CXA/B 13xx  
FWHM 25.0°  
Efficiency 88 %  
Peak intensity 2.7 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



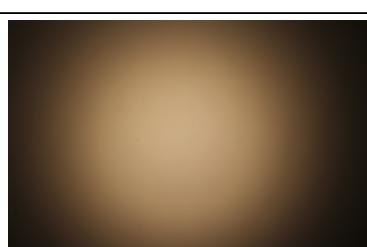
### CREE

LED CXA/B 13xx  
FWHM 26.0°  
Efficiency 87 %  
Peak intensity 2.8 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



### CREE

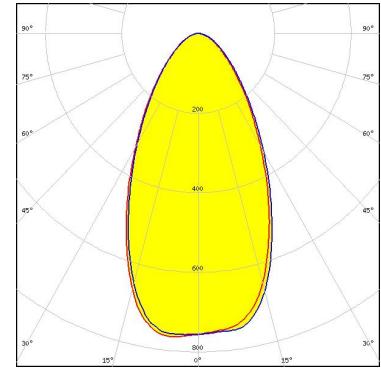
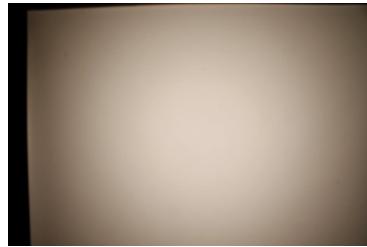
LED CXA/B 15xx  
FWHM 31.0°  
Efficiency 86 %  
Peak intensity 2.1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



## PHOTOMETRIC DATA (MEASURED):

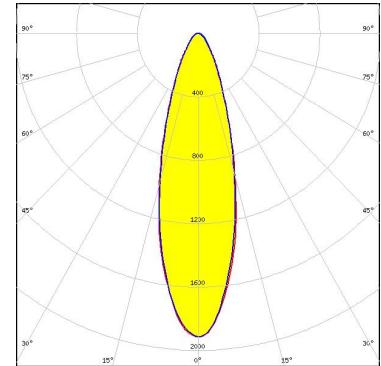
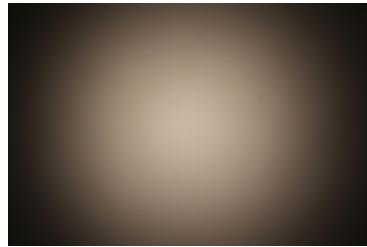
### CREE

LED CXA/B 25xx  
FWHM 55.0°  
Efficiency 85 %  
Peak intensity 0.8 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



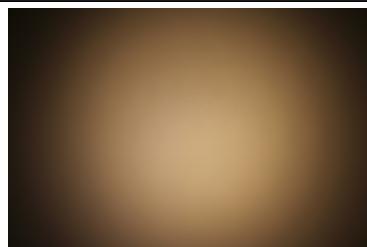
### CREE

LED MHD-E/G  
FWHM 30.0°  
Efficiency 87 %  
Peak intensity 1.9 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



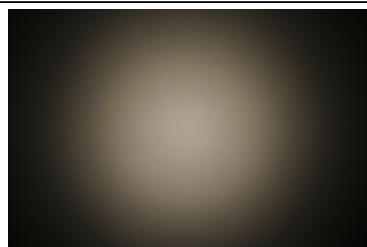
### LUMILEDS

LED LUXEON CoB 1202/1203  
FWHM 34.0°  
Efficiency 86 %  
Peak intensity 1.7 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



### LUMILEDS

LED LUXEON CoB 1202s  
FWHM 27.0°  
Efficiency 86 %  
Peak intensity 2.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



## PHOTOMETRIC DATA (MEASURED):



LED CxM-14 (19x19)

FWHM 45.0°

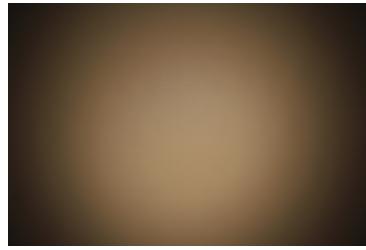
Efficiency 85 %

Peak intensity 1 cd/lm

LEDs/each optic 1

Light colour White

Required components:



LED CxM-9 (13.5x13.5)

FWHM 36.0°

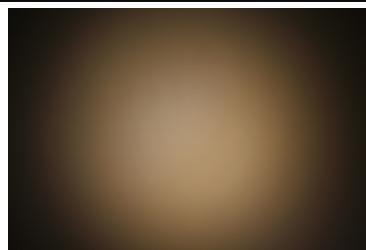
Efficiency 87 %

Peak intensity 1.7 cd/lm

LEDs/each optic 1

Light colour White

Required components:



Opto Semiconductors

LED Duris S10

FWHM 24.0°

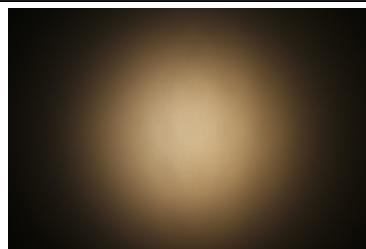
Efficiency 88 %

Peak intensity 3.1 cd/lm

LEDs/each optic 1

Light colour White

Required components:



Opto Semiconductors

LED Soleriq S13

FWHM 41.0°

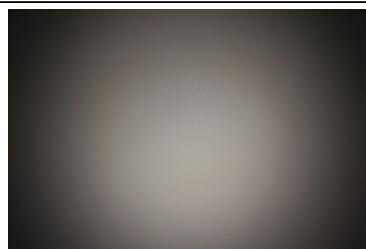
Efficiency 85 %

Peak intensity 1.2 cd/lm

LEDs/each optic 1

Light colour White

Required components:



## PHOTOMETRIC DATA (MEASURED):

### OSRAM

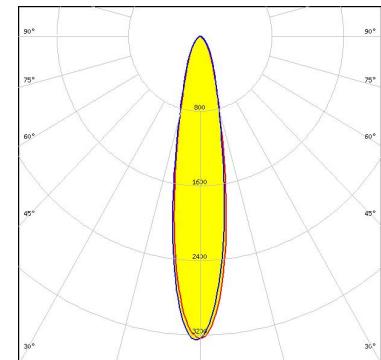
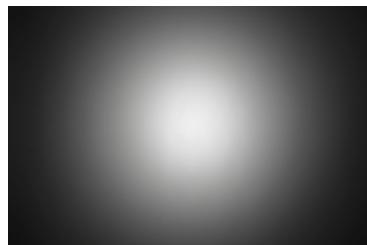
Opto Semiconductors

LED Soleriq S19  
FWHM 55.0°  
Efficiency 83 %  
Peak intensity 0.8 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



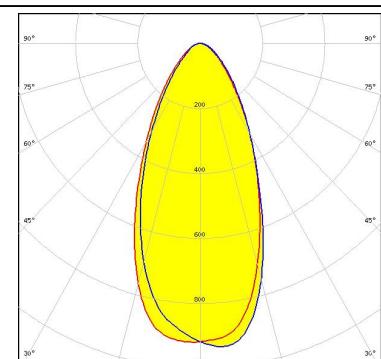
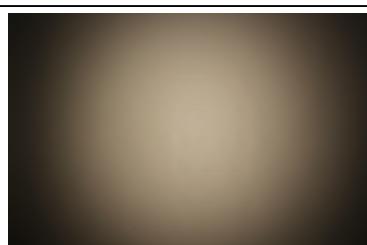
### SAMSUNG

LED LC003D / LC006D / LC009D / LC013D  
FWHM 35.0°  
Efficiency 87 %  
Peak intensity 1.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



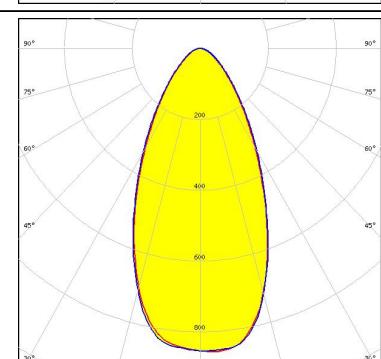
### SAMSUNG

LED LC016D / LC019D / LC026D / LC033D  
FWHM 48.0°  
Efficiency 85 %  
Peak intensity 0.9 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

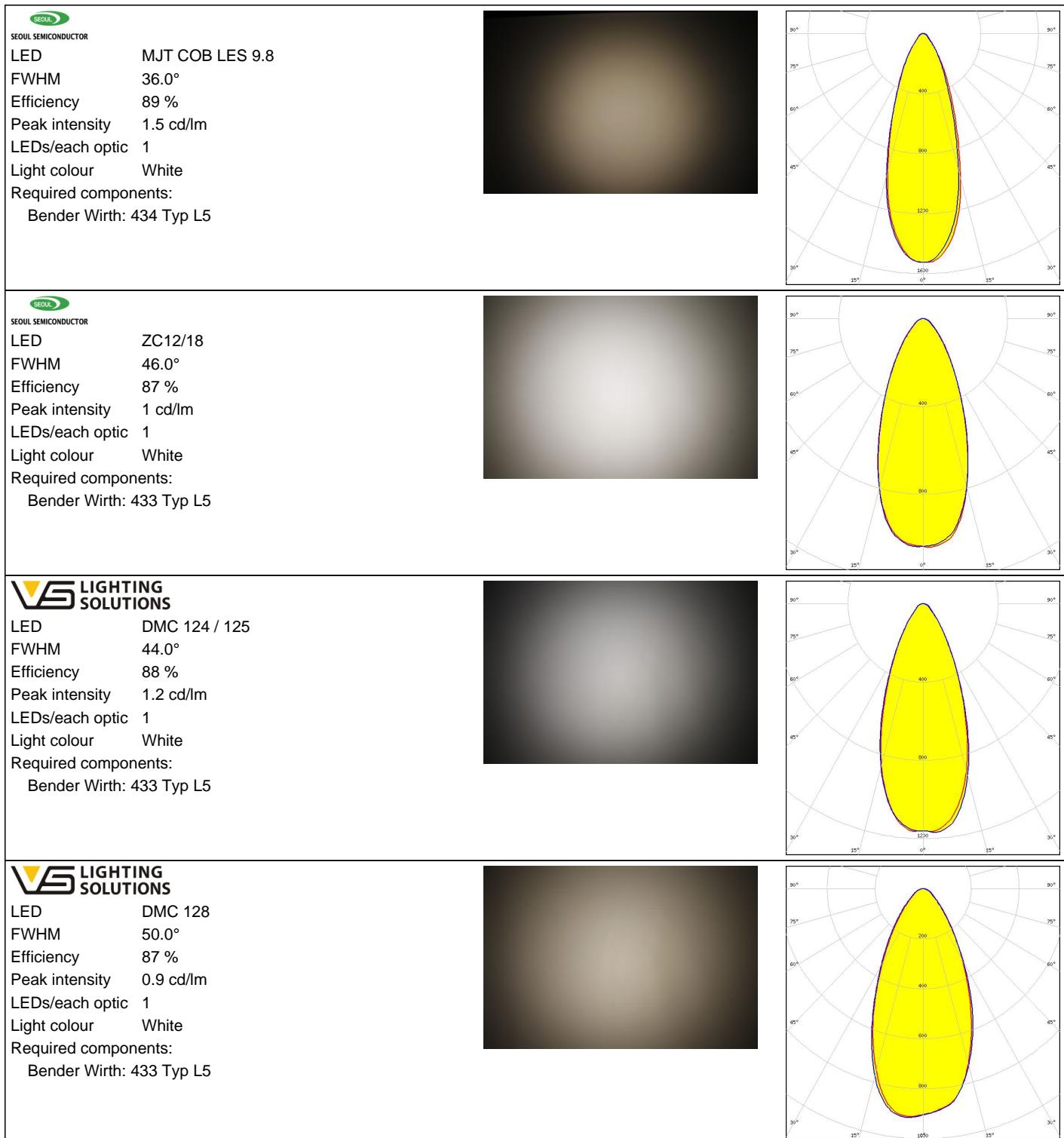


### SEoul SEMICONDUCTOR

LED MJT COB LES 14.5  
FWHM 51.0°  
Efficiency 84 %  
Peak intensity 0.9 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:  
Bender Wirth: 433 Typ L5



## PHOTOMETRIC DATA (MEASURED):



## PHOTOMETRIC DATA (SIMULATED):

### CITIZEN

LED CLL02x/CLU02x (LES10)

FWHM 35.0°

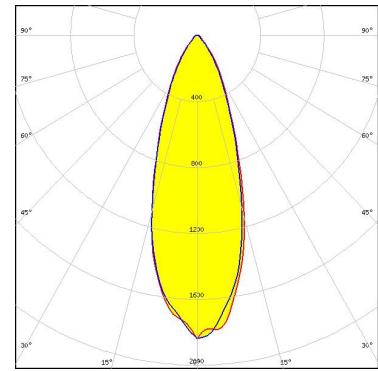
Efficiency 92 %

Peak intensity 1.8 cd/lm

LEDs/each optic 1

Light colour White

Required components:



### LUMILEDS

LED LUXEON CoB 1202/1203

FWHM 34.0°

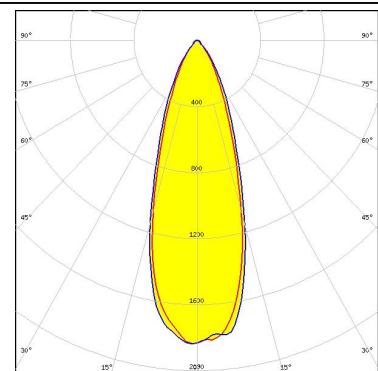
Efficiency 89 %

Peak intensity 1.9 cd/lm

LEDs/each optic 1

Light colour White

Required components:



### LUMILEDS

LED LUXEON CoB Compact

FWHM 27.0°

Efficiency 86 %

Peak intensity 2.5 cd/lm

LEDs/each optic 1

Light colour White

Required components:

### LUMINUS

LED CxM-14 (19x19)

FWHM 49.0°

Efficiency 86 %

Peak intensity 0.9 cd/lm

LEDs/each optic 1

Light colour White

Required components:



## PHOTOMETRIC DATA (SIMULATED):

### LUMINUS

LED CxM-9 (13.5x13.5)

FWHM 35.0°

Efficiency 86 %

Peak intensity 1.6 cd/lm

LEDs/each optic 1

Light colour White

Required components:

Bender Wirth: 434 Typ L5

### NICHIA

LED COB S-Type (LES 6)

FWHM 25.0°

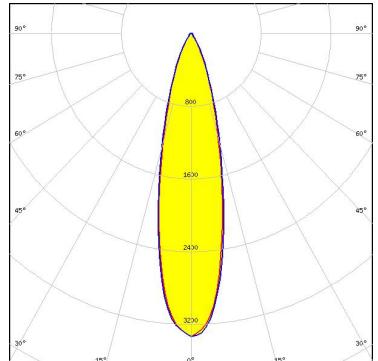
Efficiency 92 %

Peak intensity 3.3 cd/lm

LEDs/each optic 1

Light colour White

Required components:



### OSRAM

Opto Semiconductors

LED Soleriq S9

FWHM 32.0°

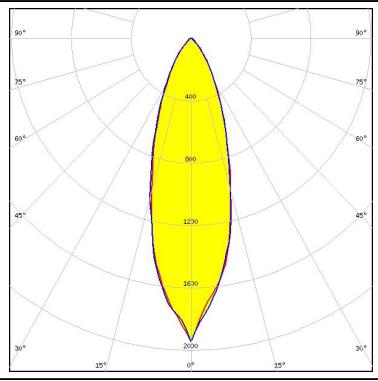
Efficiency 90 %

Peak intensity 1.9 cd/lm

LEDs/each optic 1

Light colour White

Required components:



### SAMSUNG

LED LC010C

FWHM 27.0°

Efficiency 92 %

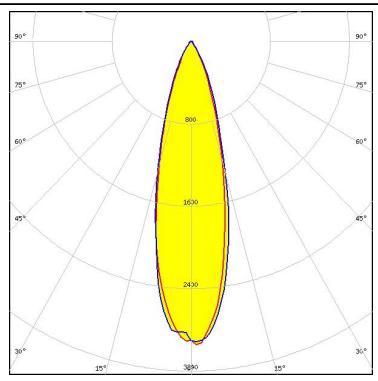
Peak intensity 3 cd/lm

LEDs/each optic 1

Light colour White

Required components:

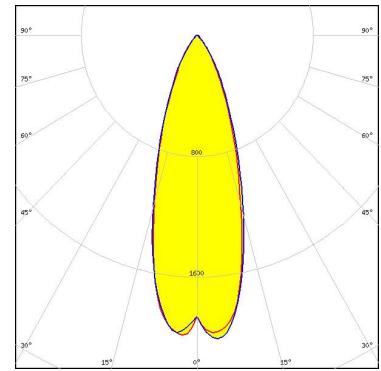
Bender Wirth: 479 Typ L5



## PHOTOMETRIC DATA (SIMULATED):

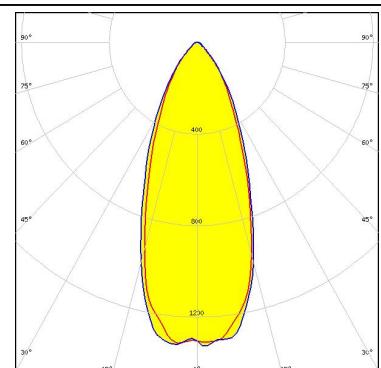
### SAMSUNG

LED LC020C  
 FWHM 32.0°  
 Efficiency 90 %  
 Peak intensity 2.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 479 Typ L5



### SAMSUNG

LED LC040C  
 FWHM 40.0°  
 Efficiency 89 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 479 Typ L5



### SEOUL SEMICONDUCTOR

LED ZC4/6  
 FWHM 35.0°  
 Efficiency 86 %  
 Peak intensity 1.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:  
 Bender Wirth: 434 Typ L5

## 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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