# PRODUCT DATASHEET CA15902\_VERONICA-SQ-SE

#### **VERONICA-SQ-SE**

~190° side emitter beam

#### **SPECIFICATION:**

Dimensions 22.5 x 22.5 mm

Height 11.4 mm

Fastening tape

ROHS compliant yes 1



#### **MATERIALS:**

ComponentTypeMaterialColourFinishVERONICA-SQ-SESingle lensPMMAclearVERONICA-TAPETapeAcrylic foamclear

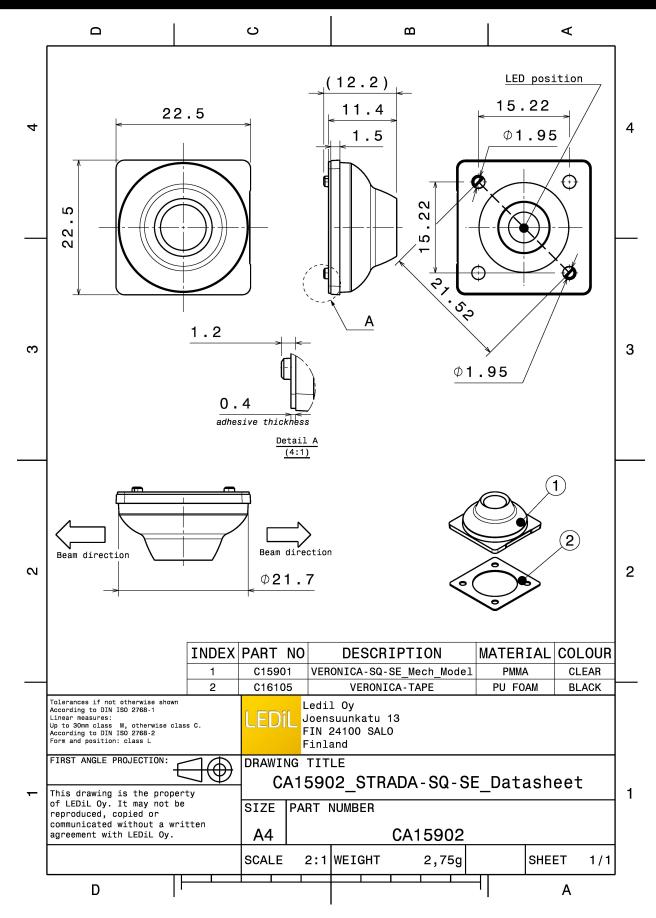
#### **ORDERING INFORMATION:**

Component Qty in box MOQ MPQ Box weight (kg)

CA15902\_VERONICA-SQ-SE Single lens 3060 360 180 9.6

» Box size: 480 x 280 x 300 mm

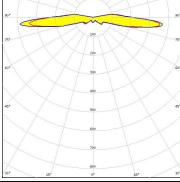
# PRODUCT DATASHEET CA15902\_VERONICA-SQ-SE



See also our general installation guide: www.ledil.com/installation\_guide



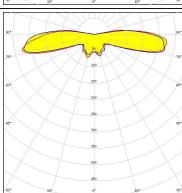




# CREE \$

Required components:

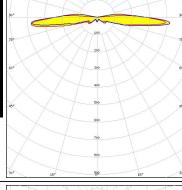
LED XHP70.2
FWHM / FWTM 194.0° / 220.0°
Efficiency 84 %
Peak intensity 0.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



# CREE +

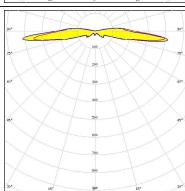
LED XP-G2
FWHM / FWTM 184.0° / 196.0°
Efficiency 87 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:





# CREE &

LED XP-L HI
FWHM / FWTM 184.0° / 210.0°
Efficiency 87 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:





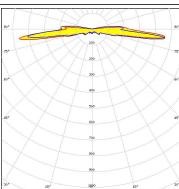


LED XQ-E HI FWHM / FWTM 176.0° / 195.0°

Efficiency 87 %

Peak intensity 0.5 cd/lm LEDs/each optic 1

Light colour White Required components:



#### LUMILEDS

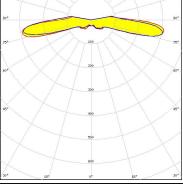
LED LUXEON 5050 Round LES

FWHM / FWTM 180.0° / 200.0°

Efficiency 87 %
Peak intensity 0.3 cd/lm
LEDs/each optic 1
Light colour White

Required components:



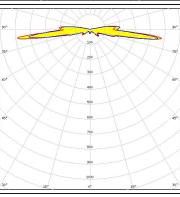


### LUMILEDS

LED LUXEON CZ FWHM / FWTM 173.0° / 200.0°

Efficiency 90 %

Peak intensity 0.5 cd/lm LEDs/each optic 1
Light colour White Required components:



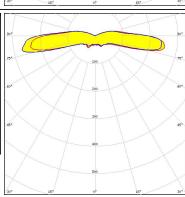
## **MUMILEDS**

LED LUXEON M/MX FWHM / FWTM 189.0° / 225.0°

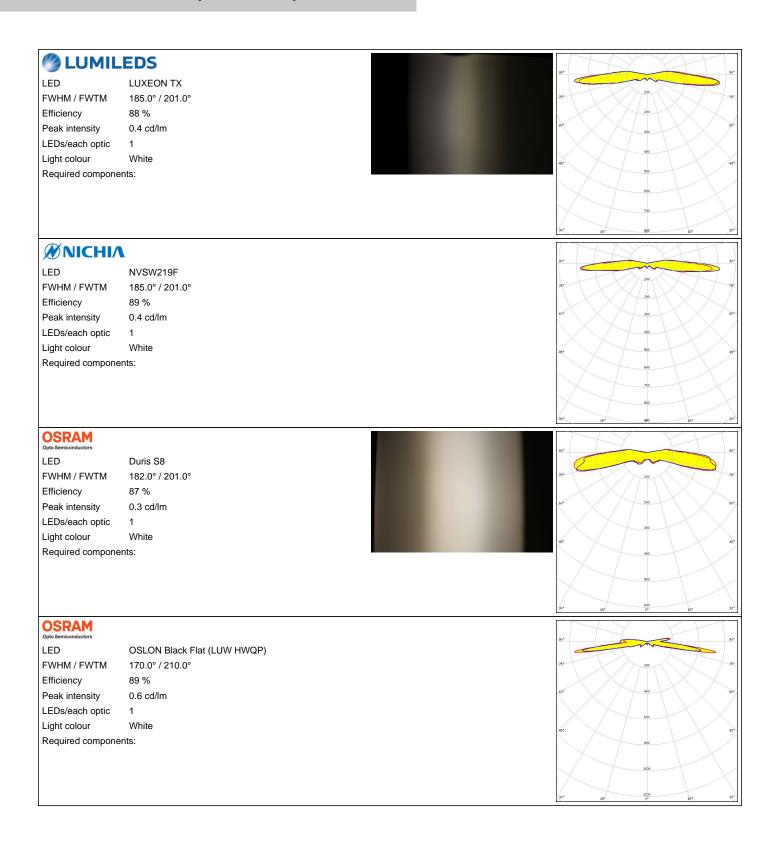
Efficiency 91 %
Peak intensity 2.7 cd/lm
LEDs/each optic 1

Light colour White Required components:







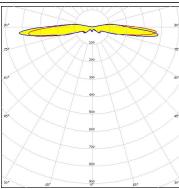




#### **OSRAM**

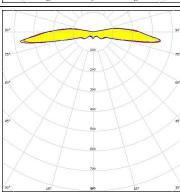
LED OSLON Square CSSRM2/CSSRM3

FWHM / FWTM 186.0° / 220.0° Efficiency 88 % Peak intensity 0.4 cd/lm LEDs/each optic Light colour White Required components:



#### **OSRAM**

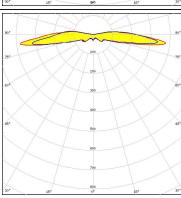
LED OSLON Square EC FWHM / FWTM 189.0° / 201.0° Efficiency 88 % Peak intensity 0.4 cd/lm LEDs/each optic 1 White Light colour Required components:



# OSRAM Opto Semiconductors

LED

OSLON Square PC FWHM / FWTM 187.0° / 200.0° Efficiency 88 % Peak intensity 0.4 cd/lm LEDs/each optic Light colour White Required components:

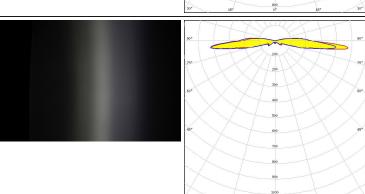


#### **OSRAM**

LED OSLON SSL 150

FWHM / FWTM 182.0° / 200.0° Efficiency 89 %

Peak intensity 0.5 cd/lm LEDs/each optic White Light colour Required components:





# **SAMSUNG**

LED LH181A

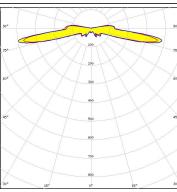
FWHM / FWTM 170.0° / 210.0°

White

Efficiency 91 % Peak intensity 0.5 cd/lm

LEDs/each optic 1

Light colour W Required components:



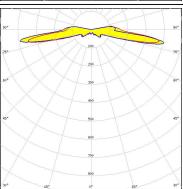
## **SAMSUNG**

LED LH181B

FWHM / FWTM 171.0° / 201.0°

Efficiency 88 %
Peak intensity 0.5 cd/lm

LEDs/each optic 1
Light colour White
Required components:



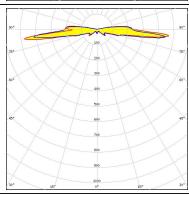
## SEOUL SEMICONDUCTOR

LED nPola

FWHM / FWTM 181.0° / 200.0°

Efficiency 89 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1

Light colour White Required components:



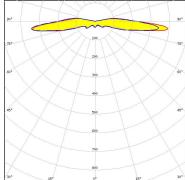
## SEOUL SEMICONDUCTOR

LED Z5M3

Required components:

FWHM / FWTM 184.0° / 201.0°

Efficiency 89 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour White

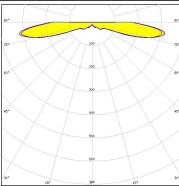


# CREE &

LED J Series 5050 Round LES

FWHM / FWTM 180.0° / 182.0°
Efficiency 75 %
Peak intensity 0.3 cd/lm
LEDs/each optic 1
Light colour White

Required components:



# CREE &

LED J Series 5050B 30V K Class

FWHM / FWTM 180.0° / 182.0°

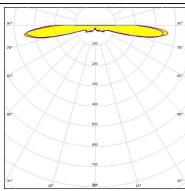
Efficiency 75 %

Peak intensity 0.4 cd/lm

LEDs/each optic 1

Light colour White

Required components:

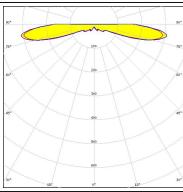


# CREE &

LED J Series 5050B 6V K Class

FWHM / FWTM 180.0° / 182.0°
Efficiency 75 %
Peak intensity 0.3 cd/lm
LEDs/each optic 1
Light colour White

Required components:



# CREE \$

 LED
 XD16

 FWHM / FWTM
 188.0° / 223.0°

 Efficiency
 94 %

Peak intensity 0.3 cd/lm LEDs/each optic 7
Light colour White Required components:





LED XE-G

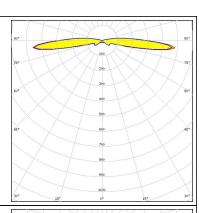
FWHM / FWTM 184.0° / 200.0°

Efficiency 94 %

Peak intensity 0.5 cd/lm LEDs/each optic 1

Light colour Green

Required components:



# CREE &

LED XE-G

FWHM / FWTM 182.0° / 204.0°

Efficiency 96 %
Peak intensity 0.5 cd/lm

LEDs/each optic 1

Light colour White

Required components:

CREE \$

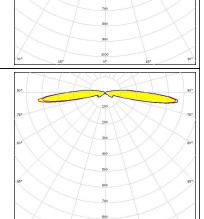
LED XE-G

FWHM / FWTM 180.0° / 204.0°

Efficiency 96 %
Peak intensity 0.5 cd/lm

LEDs/each optic 1
Light colour Red

Required components:



# CREE \$

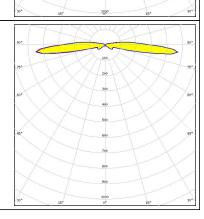
LED XE-G

FWHM / FWTM 184.0° / 204.0°

Blue

Efficiency 96 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1

Light colour
Required components:







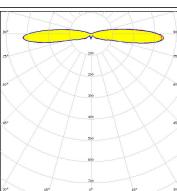
LED XHP35 HD FWHM / FWTM 194.0° / 216.0°

Efficiency 94 %

Peak intensity 0.4 cd/lm LEDs/each optic 1

Light colour White

Required components:

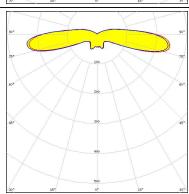


# CREE &

LED XHP70 FWHM / FWTM 190.0° / 232.0°

Efficiency 94 %
Peak intensity 0.3 cd/lm
LEDs/each optic 1
Light colour White

Required components:



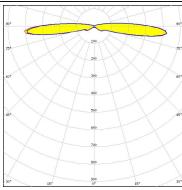
# CREE \$

LED XP-E2

FWHM / FWTM 188.0° / 206.0°

Efficiency 95 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1

Light colour Red Required components:

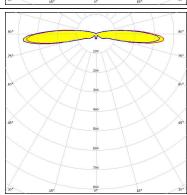


# CREE \$

LED XP-G2 HE FWHM / FWTM 191.0° / 212.0°

Efficiency 95 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour White

Required components:





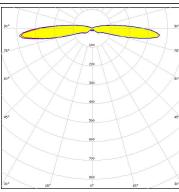
# CREE &

LED XP-G3 FWHM / FWTM 186.0° / 211.0°

Efficiency 94 %
Peak intensity 0.4 cd/lm

LEDs/each optic 1
Light colour White

Required components:

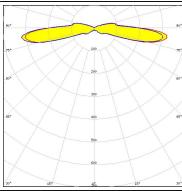


# CREE &

LED XQ-E HI FWHM / FWTM 183.0° / 221.0°

Efficiency 94 %
Peak intensity 0.3 cd/lm
LEDs/each optic 4
Light colour White

Required components:



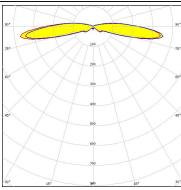
# CREE +

LED XT-E

FWHM / FWTM 184.0° / 212.0° Efficiency 95 %

Peak intensity 0.4 cd/lm LEDs/each optic 1
Light colour White

Required components:

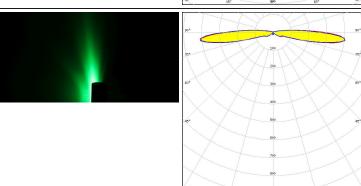


## **MUMILEDS**

LED LUXEON C FWHM / FWTM 183.0° / 201.0°

Efficiency 92 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour Green

Required components:





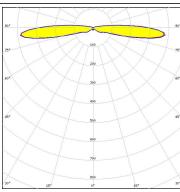


LED LUXEON C FWHM / FWTM 188.0° / 204.0°

Efficiency 93 % Peak intensity 0.4 cd/lm

LEDs/each optic Light colour White

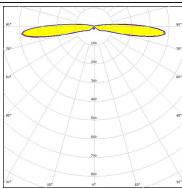
Required components:



#### **MUMILEDS**

LED LUXEON C FWHM / FWTM 184.0° / 204.0°

Efficiency 91 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Red Light colour Required components:



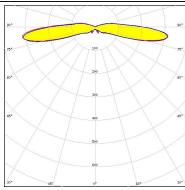
## LUMILEDS

LED LUXEON IR Compact

FWHM / FWTM 183.4° / 217.0°

Efficiency 94 % Peak intensity 0.3 cd/lm LEDs/each optic 1 White

Light colour Required components:

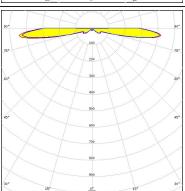


## **MUMILEDS**

LED LUXEON Rebel FWHM / FWTM 180.0° / 182.0°

Efficiency 75 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Red Light colour

Required components:





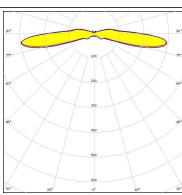


LED LUXEON Z FWHM / FWTM 183.4° / 218.0°

Efficiency 89 %
Peak intensity 0.3 cd/lm

LEDs/each optic 1
Light colour White

Required components:

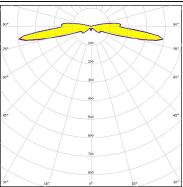


#### **WNICHIA**

LED NCSxE17A FWHM / FWTM 173.0° / 208.0°

Efficiency 96 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour White

Required components:

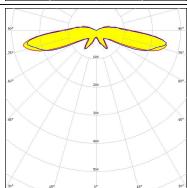


#### **WNICHIA**

LED NCSxE17A FWHM / FWTM 180.0° / 226.0°

Efficiency 96 %
Peak intensity 0.3 cd/lm
LEDs/each optic 7
Light colour White

Required components:

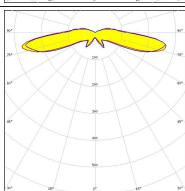


### **WNICHIA**

LED NCSxE17A FWHM / FWTM 179.0° / 228.0°

Efficiency 96 %
Peak intensity 0.3 cd/lm
LEDs/each optic 7
Light colour White

Required components:



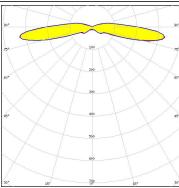




LED NV4WB35AM FWHM / FWTM 184.0° / 220.0° Efficiency 95 % Peak intensity 0.3 cd/lm LEDs/each optic

White

Required components:

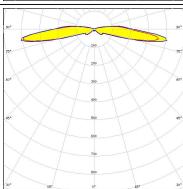


#### **OSRAM**

Light colour

LED OSCONIQ P 3030 FWHM / FWTM 181.0° / 208.0° Efficiency 95 % Peak intensity 0.4 cd/lm LEDs/each optic 1 White Light colour

Required components:

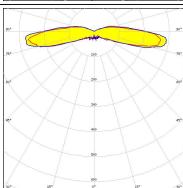


# OSRAM Opto Semiconducto

LED

OSCONIQ P 7070  $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 192.0° / 226.0° Efficiency 95 % LEDs/each optic 1 Light colour White

Required components:

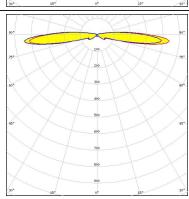


#### **OSRAM**

LED

**OSLON Signal** FWHM / FWTM 186.0° / 203.0° Efficiency 95 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Red Light colour

Required components:





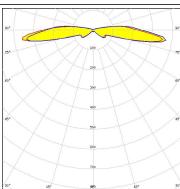
#### **OSRAM**

LED OSLON SSL 120 FWHM / FWTM 188.0° / 212.0°

White

Efficiency 95 % Peak intensity 0.4 cd/lm LEDs/each optic

Required components:

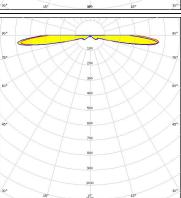


#### **OSRAM**

Light colour

OSLON SSL 150 LED FWHM / FWTM 180.0° / 182.0° Efficiency 78 %

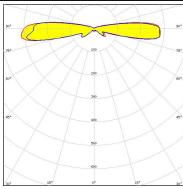
Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour Red Required components:



# OSRAM Opto Semiconductors

LED OSLON SSL 80 FWHM / FWTM 197.0° / 215.0°

Efficiency 96 % Peak intensity 0.3 cd/lm LEDs/each optic 1 Light colour Red Required components:



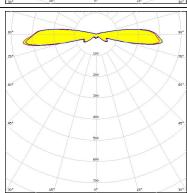
#### **OSRAM**

LED

OSLON SSL 80 FWHM / FWTM 195.0° / 206.0°

Efficiency 93 % Peak intensity 0.4 cd/lm LEDs/each optic White Light colour

Required components:



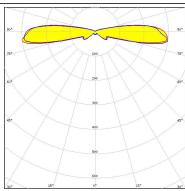


#### **OSRAM**

LED OSLON SSL 80 FWHM / FWTM 198.0° / 216.0°

Efficiency 94 % Peak intensity 0.3 cd/lm LEDs/each optic Light colour Blue

Required components:



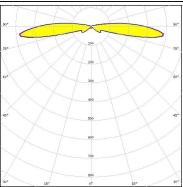
#### **OSRAM**

LED OSTAR Projection Compact (KW.CSLNM1.TG)

FWHM / FWTM 188.0° / 208.0° Efficiency 96 % Peak intensity 0.4 cd/lm

LEDs/each optic 1 Red Light colour

Required components:



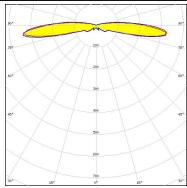
# OSRAM Opto Semiconductors

LED SFH 4170S FWHM / FWTM 188.0° / 208.0°

IR

Efficiency 87 % Peak intensity 0.4 cd/lm LEDs/each optic 1

Light colour Required components:

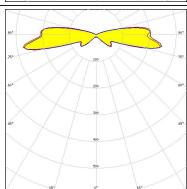


#### **OSRAM**

LED FWHM / FWTM

SFH 4715AS 202.0° / 221.0°

Efficiency 95 % Peak intensity 0.3 cd/lm LEDs/each optic 1 IR Light colour Required components:

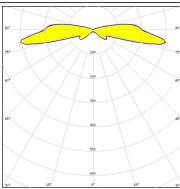




#### **OSRAM**

LED SFH 4715S FWHM / FWTM 196.0° / 216.0° Efficiency 95 % 0.3 cd/lm

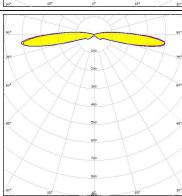
Peak intensity LEDs/each optic Light colour IR Required components:



#### **OSRAM**

LED SFH 4716AS FWHM / FWTM 184.0° / 207.0° 95 %

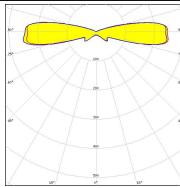
Efficiency Peak intensity 0.4 cd/lm LEDs/each optic 1 IR Light colour Required components:



# OSRAM Opto Semiconductors

LED SFH 4717AS FWHM / FWTM 207.0° / 224.0°

Efficiency 95 % Peak intensity 0.3 cd/lm LEDs/each optic 1 Light colour IR Required components:

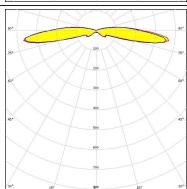


#### **OSRAM**

LED

SFH 4770S 185.0° / 212.0°

FWHM / FWTM Efficiency 95 % Peak intensity 0.4 cd/lm LEDs/each optic 1 IR Light colour Required components:



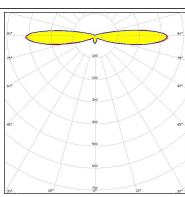


# **SAMSUNG**

LH351C FWHM / FWTM 196.0° / 215.0° Efficiency 96 %

Peak intensity 0.3 cd/lm LEDs/each optic Light colour White

Required components:

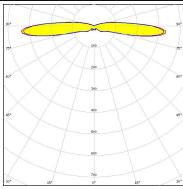


## **SAMSUNG**

LED LH351D FWHM / FWTM 190.0° / 216.0°

Efficiency 94 % Peak intensity 0.3 cd/lm LEDs/each optic 1 White Light colour

Required components:

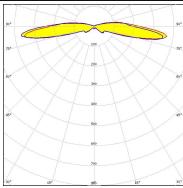


## SEOUL

LED MJT 3030  $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 184.0° / 212.0°

Efficiency 95 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White

Required components:



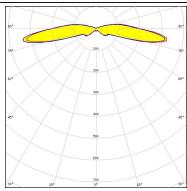
#### SEOUL SEOUL SEMICONDUCTOR

LED Z5M4

FWHM / FWTM 184.0° / 216.0°

Efficiency 95 % Peak intensity 0.3 cd/lm LEDs/each optic White Light colour

Required components:







Required components:

LED Z8Y22P
FWHM / FWTM 181.4° / 210.6°
Efficiency 94 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour White



# PRODUCT DATASHEET CA15902\_VERONICA-SQ-SE

#### **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.

#### **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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# Local sales and technical support

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