

## FLORENCE-3R-IP-O

~85° + 40° oval beam

### **SPECIFICATION:**

Dimensions	321.0 x 79.0 mm
Height	9.4 mm
Fastening	screw
Ingress protection classes	IP67
ROHS compliant	yes 🛈



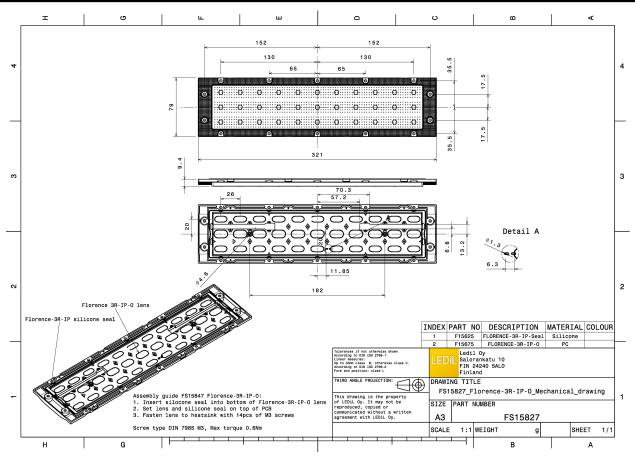
### **MATERIALS**:

Component	Туре	Material	Colour	Finish
FLORENCE-3R-IP-O	Linear lens	PC	clear	
FLORENCE-3R-IP-SEAL	Seal	Silicone	clear	

#### **ORDERING INFORMATION:**

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FS15847_FLORENCE-3R-IP-O	Linear lens	80	80	4	13.0
» Box size: 356 x 356 x 292 mm					

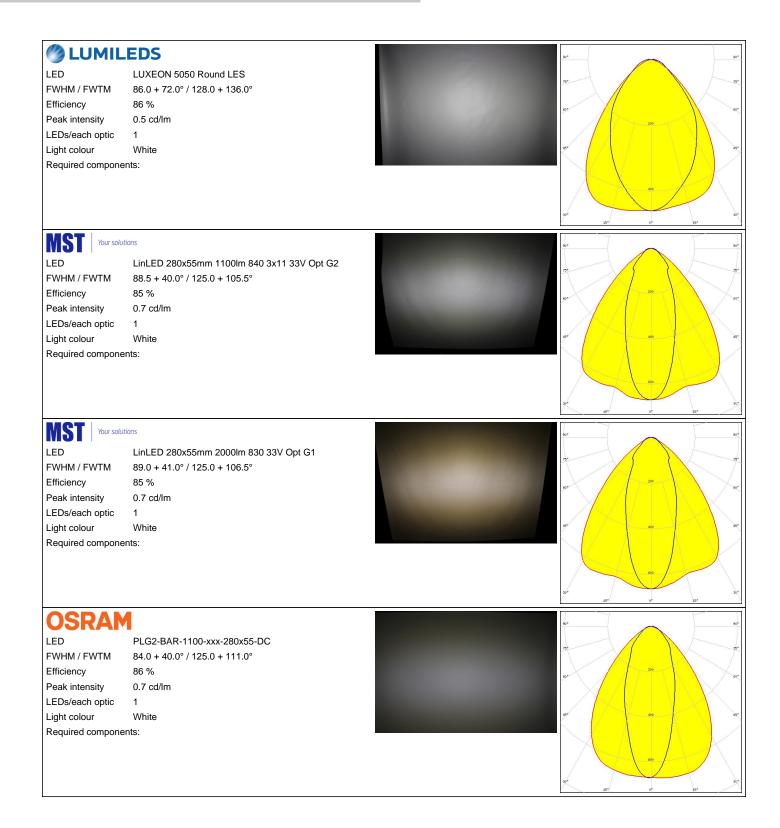




See also our general installation guide: <u>www.ledil.com/installation\_guide</u>



### **OPTICAL RESULTS (MEASURED):**





## **OPTICAL RESULTS (MEASURED):**

Duris S2 FWHM / FWTM 88.0 + 33.5° / 127.0 + 123.5° Efficiency 81 % Peak intensity 0.6 cd/m LEDs/each optic 1 Light colour White Required components:				
PWHAI / PWTM 88.0 + 33.5 / 127.0 + 123.5 * Efficiency 81 % Peak Intensity 0.6 od/m Required components: EDS SECUL 5630C PWMAI / FWTM 87.0 + 41.0 * 127.0 + 99.0 * Efficiency 87 % Hite ackar White Required components: EDS SECUL DC 3020 PWHAI / FWTM 88.0 + 39.0 * 127.0 + 101.0 * Efficiency 88 % Required components: EDS SECUL DC 3020 PWHAI / FWTM 88.0 + 39.0 * 127.0 + 101.0 * Efficiency 88 % Peak Intensity 0.7 cd/m LED & SECUL DC 3020 PWHAI / FWTM 87.0 + 43.0 * 127.0 + 101.0 * Efficiency 88 % Peak Intensity 0.7 cd/m LED & SECUL DC 3020 PWHAI / FWTM 87.0 + 43.0 * 127.0 + 101.0 * Efficiency 88 % Peak Intensity 0.7 cd/m LED & SECUL DC 3020 PWHAI / FWTM 87.0 + 43.0 * 127.0 + 101.0 * Efficiency 88 % Peak Intensity 0.7 cd/m LED & LEE 62.55280mm 2000im FWHAI / FWTM 87.0 + 43.0 * 127.0 + 101.0 * Efficiency 88 % Peak Intensity 0.7 cd/m LED & LEE 62.55280mm 2000im FWHAI / FWTM 87.0 + 43.0 * 127.0 + 101.0 * Efficiency 88 % Peak Intensity 0.7 cd/m LED & LEE 62.55280mm 2000im FWHAI / FWTM 87.0 + 43.0 * 127.0 + 101.0 * Efficiency 88 % Peak Intensity 0.7 cd/m LED & LEE 62.55280mm 2000im FWHAI / FWTM 87.0 + 43.0 * 127.0 + 101.0 * Efficiency 88 % Peak Intensity 0.7 cd/m LED & SECUL DC 3020 FWHAI / FWTM 87.0 + 43.0 * 127.0 + 101.0 * Efficiency 88 % Peak Intensity 0.7 cd/m LED & SECUL DC 3020 FWHAI / FWTM 87.0 + 43.0 * 127.0 + 101.0 * Efficiency 88 % Peak Intensity 0.7 cd/m LED & SECUL DC 3020 FWHAI / FWTM 87.0 + 43.0 * 127.0 + 101.0 * Efficiency 88 % Peak Intensity 0.7 cd/m LED & SECUL DC 300 MIN / TY D & 100.0 * FWHAI / FWTM 87.0 + 43.0 * 127.0 + 101.0 * Efficiency 88 % Peak Intensity 0.7 cd/m LED & SECUL DC 300 MIN / 127.0 + 101.0 * Efficiency 88 % PEAK Intensity 0.7 cd/m LED & SECUL DC 300 MIN / 127.0 + 101.0 * Efficiency 88 % PEAK Intensity 0.7 cd/m LED & SECUL DC 300 MIN / 127.0 + 101.0 * Efficiency 88 %	OSRAM Opto Semiconductors			90* 90*
Efficiency 8 % Peak intensity 0.6 cd/im Light colour White Required components: ED SEOUL 5630C FWHM /FVTM 87.0 + 10.7 (127.0 + 90.0° Efficiency 87 % Peak intensity 0.7 cd/im LED% each optic 1 Light colour White Required components: EED SEOUL DC 3030 FWHM /FVTM SEOUL DC 300 FWHM /FVTM SEOUL DC 30 FWHM /FV	LED	Duris S2		
Peak Intensity 0.6 cd/lm LED2/each optic 1 LED2/each optic 2 LED SEOUL 5630C PWHM /FVTM 87.0 + 11.0° / 127.0 + 90.0° Efficiency 87 % Peak Intensity 0.7 cd/m LED2/each optic 1 Light colour White Required components: EFFOUL DC 3030 PWHM /FVTM 88.0 + 33.0° / 127.0 + 101.0° Efficiency 88 % Peak Intensity 0.7 cd/m LED2/each optic 1 Light colour White Required components: EFFOUL DC 3030 PWHM /FVTM 88.0 + 33.0° / 127.0 + 101.0° Efficiency 88 % Peak Intensity 0.7 cd/m LED2/each optic 1 Light colour White Required components: EFFOUL DC 3030 PWHM /FVTM 87.0 + 43.0° / 127.0 + 101.0° Efficiency 88 % Peak Intensity 0.7 cd/m LED2/each optic 1 Light colour White Required components: EFFOUL DC 3030 PWHM /FVTM 87.0 + 43.0° / 127.0 + 101.0° Efficiency 88 % Peak Intensity 0.7 cd/m LED2/each optic 1 Light colour White Required components: EFFOUL DC 3030 PWHM /FVTM 87.0 + 43.0° / 127.0 + 101.0° Efficiency 88 % Peak Intensity 0.7 cd/m LED2/each optic 1 Light colour White Peak Intensity 0.7 cd/m LED2/each optic 1 LED2/each optic 1 LED2/e	FWHM / FWTM	88.0 + 33.5° / 127.0 + 123.5°	and the second se	25.
Peak Intensity 0.6 cd/m LED viewer optic 1 LED viewer optic 1 LED SEOUL 5630C PWH/ FVTM S7.0 + 10.0' 127.0 + 99.0° Efficiency 97% Peak Intensity 0.7 cd/m LED viewer optic 1 Light colour White Required components: EFF EFF SEOUL DC 3330 FWH/ M/ FVTM 88.0 + 39.0° / 127.0 + 101.0° Efficiency 98% Peak Intensity 0.7 cd/m LED viewer optic 1 Light colour White Required components: EFF SEOUL DC 3330 FWH/ M/ FVTM 88.0 + 39.0° / 127.0 + 101.0° Efficiency 98% Peak Intensity 0.7 cd/m LED viewer optic 1 Light colour White Required components: EFF SEOUL DC 3330 FWH/ M/ FVTM 88.0 + 39.0° / 127.0 + 101.0° Efficiency 88% Peak Intensity 0.7 cd/m LED viewer optic 1 Light colour White FWH/ FVTM 87.0 + 43.0° / 127.0 + 101.0° Efficiency 88% Peak Intensity 0.7 cd/m LED viewer optic 1 Light colour White FWH/ VFVTM 87.0 + 43.0° / 127.0 + 101.0° Efficiency 88% Peak Intensity 0.7 cd/m LED viewer optic 1 Light colour White	Efficiency	81 %		200
LEDeleach optic 1 Light color White Required components: ED SEOUL 5630C FWHA / FVTM 87.0 + 41.0° / 127.0 + 99.0° Efficiency 87% Peak intensity 0.7 colm LEDeleach optic 1 Light color White Required components: Efficiency 88% Peak intensity 0.7 colm LEDeleach optic 1 Light color White Required components: Efficiency 88% Peak intensity 0.7 colm LEDeleach optic 1 LEDeleach optic 1		0.6 cd/lm	the second s	
Light colour White Required componentis: HER Required componentis: HER SECUL 5630C FWHM /FWTM 87.0 + 41.0° / 127.0 + 99.0° Efficiency 87% Peak intensity 0.7 col/m LED SECUL DC 3030 FWHM /FWTM 88.0 + 99.0° / 127.0 + 101.0° Efficiency 88% Peak intensity 0.7 col/m LED SECUL DC 3030 FWHM /FWTM 88.0 + 99.0° / 127.0 + 101.0° Efficiency 88% Peak intensity 0.7 col/m LED Second public HER SECUL DC 3030 FWHM /FWTM 87.0 + 430° / 127.0 + 101.0° Efficiency 88% Peak intensity 0.7 col/m LED LEG 255x280mm 2000lm FWHM /FWTM 87.0 + 430° / 127.0 + 101.0° Efficiency 88% Peak intensity 0.7 col/m LED Second public HER SECUL DC 3030 FWHM /FWTM 87.0 + 430° / 127.0 + 101.0° Efficiency 0.7 col/m LED Second public HER SECUL DC 3030 FWHM /FWTM 70.0 + 430° / 127.0 + 101.0° Efficiency 0.7 col/m LED Second public HER Second public HER SECUL DC 3030 FWHM /FWTM 70.0 + 430° / 127.0 + 101.0° Efficiency 0.7 col/m LED Second public HER Second public				
Required components:				as
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FWHM / FWTM 87.0 + 41.0° / 127.0 + 99.0° Efficiency 87 % Peak intensity 0.7 cd/m LED/tecolour White Required components: WEXENT LED SECUL DC 3030 FWHM / FWTM 88.0 + 39.0° / 127.0 + 101.0° Efficiency 88 % Peak intensity 0.7 cd/m LEDbeach optic 1 Light colour White Required components:	SEOUL SEMICONDUCTOR			90°
FWHM / FWTM   87.0 + 41.0° / 127.0 + 99.0°     Efficiency   87 %     Peak intensity   0.7 cd/m     LEDs/each optic   1     Light colour   White     Required components:   Image: Component State Sta	LED	SEOUL 5630C		
Peak intensity 0.7 cd/m LEDs/each optic 1 Light colour White Required components:	FWHM / FWTM	87.0 + 41.0° / 127.0 + 99.0°		
LEDs/each optic 1 Light colour White Required components:	Efficiency	87 %		50° 50°
Light colour White Required components:	Peak intensity	0.7 cd/lm		
Light colour White Required components:	LEDs/each optic	1		
Second	Light colour	White		400
saus saucesenserons LED SEOUL DC 3030 FWHM / FWTM 88.0 + 39.0° / 127.0 + 101.0° Efficiency 88 % Peak intensity 0.7 cd/m LEDs/each optic 1 Light colour White Required components: TRIDONICC LED LLE G2 55x280mm 2000lm FWHM / FWTM 87.0 + 43.0° / 127.0 + 101.0° Efficiency 88 % Peak intensity 0.7 cd/m LEDs/each optic 1 Light colour White	Required compone	ents:		
saus saucesenserons LED SEOUL DC 3030 FWHM / FWTM 88.0 + 39.0° / 127.0 + 101.0° Efficiency 88 % Peak intensity 0.7 cd/m LEDs/each optic 1 Light colour White Required components: TRIDONICC LED LLE G2 55x280mm 2000lm FWHM / FWTM 87.0 + 43.0° / 127.0 + 101.0° Efficiency 88 % Peak intensity 0.7 cd/m LEDs/each optic 1 Light colour White				
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saus saucesenserons LED SEOUL DC 3030 FWHM / FWTM 88.0 + 39.0° / 127.0 + 101.0° Efficiency 88 % Peak intensity 0.7 cd/m LEDs/each optic 1 Light colour White Required components: TRIDONICC LED LLE G2 55x280mm 2000lm FWHM / FWTM 87.0 + 43.0° / 127.0 + 101.0° Efficiency 88 % Peak intensity 0.7 cd/m LEDs/each optic 1 Light colour White				34* 34*
Security Security Security Security Security 127.0 + 101.0° Efficiency 88 % Peak intensity 0.7 cd/lm LEDs/each optic 1 LED Keach optic 1 LED LLE G2 55x280mm 2000lm FWHM / FWTM 87.0 + 43.0° / 127.0 + 101.0° Efficiency 88 % Peak intensity 0.7 cd/lm LED LLE G2 55x280mm 2000lm FWHM / FWTM 87.0 + 43.0° / 127.0 + 101.0° Efficiency 88 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White				90 <sup>4</sup> 90 <sup>4</sup>
FWHM / FWTM 88.0 + 39.0° / 127.0 + 101.0° Efficiency 88 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White Required components: TRIDONIC LED LLE G2 55x280mm 2000lm FWHM / FWTM 87.0 + 43.0° / 127.0 + 101.0° Efficiency 88 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White				
Efficiency 88 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White Required components: TRIDONIC LED LLE G2 55x280mm 2000lm FWHM / FWTM 87.0 + 43.0° / 127.0 + 101.0° Efficiency 88 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White				75*
Peak intensity 0.7 cd/m LEDs/each optic 1 Light colour White Required components:				
LEDs/each optic 1 Light colour White Required components: TRIDONIC LED LLE G2 55x280mm 2000lm FWHM / FWTM 87.0 + 43.0° / 127.0 + 101.0° Efficiency 88 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White				607 60
Light colour White Required components: TRIDONIC LED LLE G2 55x280mm 2000lm FWHM / FWTM 87.0 + 43.0° / 127.0 + 101.0° Efficiency 88 % Peak intensity 0.7 cd/m LEDs/each optic 1 Light colour White				
Required components:				400
TRIDONIC     LED   LLE G2 55x280mm 2000lm     FWHM / FWTM   87.0 + 43.0° / 127.0 + 101.0°     Efficiency   88 %     Peak intensity   0.7 cd/lm     LEDs/each optic   1     Light colour   White				
LED LLE G2 55x280mm 2000lm   FWHM / FWTM 87.0 + 43.0° / 127.0 + 101.0°   Efficiency 88 %   Peak intensity 0.7 cd/lm   LEDs/each optic 1   Light colour White	Required compone	ans.		
LED LLE G2 55x280mm 2000lm   FWHM / FWTM 87.0 + 43.0° / 127.0 + 101.0°   Efficiency 88 %   Peak intensity 0.7 cd/lm   LEDs/each optic 1   Light colour White				
LED LLE G2 55x280mm 2000lm   FWHM / FWTM 87.0 + 43.0° / 127.0 + 101.0°   Efficiency 88 %   Peak intensity 0.7 cd/lm   LEDs/each optic 1   Light colour White				
LED LLE G2 55x280mm 2000lm   FWHM / FWTM 87.0 + 43.0° / 127.0 + 101.0°   Efficiency 88 %   Peak intensity 0.7 cd/lm   LEDs/each optic 1   Light colour White				36* 36* 36*
LED LLE G2 55x280mm 2000lm FWHM / FWTM 87.0 + 43.0° / 127.0 + 101.0° Efficiency 88 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White	TRIDON			90 <sup>4</sup> 90 <sup>4</sup>
FWHM / FWTM 87.0 + 43.0° / 127.0 + 101.0°   Efficiency 88 %   Peak intensity 0.7 cd/lm   LEDs/each optic 1   Light colour White				
Efficiency 88 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White				75*
Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White				200
LEDs/each optic 1 Light colour White				60*
Light colour White				
				400
2 <sup>4+</sup> 20 <sup>-</sup> 0 <sup>-</sup> 12 <sup>-</sup> 39				
20 <sup>4</sup> 12 <sup>7</sup> 0 <sup>4</sup> 12 <sup>7</sup> 30 <sup>4</sup>				
30* 127 0* 127 30				
30 <sup>4</sup> 0 <sup>4</sup> 13 <sup>5</sup> 30 <sup>4</sup>				
				30° 15° 0° 15°



UMILEC	DS	90*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON CZ 89.0 + 30.0° / 128.0 + 74.0° 87 % 0.9 cd/lm 1 White	75
<b>ØNICHI</b> Λ		50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NF2x757D 86.0 + 34.0° / 126.0 + 89.0° 87 % 0.8 cd/lm 1 White	75
<b>Μ</b> ΝΙCΗΙΛ		30 <sup>11</sup> 000 30 <sup>11</sup> 30 <sup>11</sup> 30 <sup>11</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NVSxE21A 30.0 + 87.0° / 81.0 + 124.0° 86 % 0.8 cd/lm 1 White	
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Duris S10 85.0 + 72.0° / 131.0 + 133.0° 84 % 0.5 cd/lm 1 White	90° 90 72° 200 60° 200 60° 60° 60° 60° 60° 60° 60° 60° 60° 60°



OSRAM Opto Semiconductors		90° 90°
LED	Duris S8	
FWHM / FWTM	84.0 + 51.0° / 125.0 + 106.0°	75°
Efficiency	88 %	
Peak intensity	0.6 cd/lm	60 <sup>4</sup>
LEDs/each optic	1	
Light colour	White	gz4 / / / / / / / / / / / / / / / / / / /
Required components:		400
riedanea compensioner		
		30° 30° 30° 30°
OSRAM		905
Opto Semiconductors		
LED FWHM / FWTM	OSCONIQ P 3030 32.0 + 85.0° / 77.0 + 125.0°	75'
Efficiency	89 %	
Peak intensity	0.9 cd/lm	400
LEDs/each optic	1	
Light colour	White	
Required components:		
		30" 30" 30"
SAMSUN	10	
		90 <sup>4</sup> 90 <sup>4</sup>
LED	LM302B	75
FWHM / FWTM	82.0 + 28.0° / 128.0 + 78.0°	200
Efficiency	86 %	60 60
Peak intensity	0.9 cd/lm	400
LEDs/each optic	1	
Light colour	White	45 45
Required components:		
		***
		300 100 300
СЛЛЛСИМ		
SAMSUN		90* 90
LED	LM302Z	75' 75
FWHM / FWTM	82.0 + 25.0° / 119.0 + 84.0°	200
Efficiency	88 %	607 60
Peak intensity	0.9 cd/lm	400
LEDs/each optic	1	
Light colour	White	45° 600
Required components:		
		36*
		15°



SVWSUN		90° 90°
LED	LM302Z	75*
FWHM / FWTM	73.0 + 27.0° / 114.0 + 83.0°	
Efficiency	88 %	60 <sup>4</sup> 60
Peak intensity	1 cd/lm	400
LEDs/each optic	2	
Light colour	White	
Required components:		
		- hand
		30° 30' 30'
SAMSUN	IG	90° 90'
LED	LM561B Plus	
FWHM / FWTM	82.0 + 28.0° / 121.0 + 79.0°	75* 200
Efficiency	86 %	
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	ar la as
Required components:		
		30" 30" 30"
SEOUL SEMICONDUCTOR		30 <sup>4</sup> 30 <sup>0</sup>
LED	SEOUL DC 3030C	
FWHM / FWTM	84.0 + 30.0° / 125.0 + 85.0°	75
Efficiency	92 %	
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	434 435
Required components:		640
		000
		30" 30,
SEOUL		447 V 435.
SEOUL SEMICONDUCTOR		90° 90'
LED	SEOUL DC 3528	75'
FWHM / FWTM	87.0 + 31.0° / 125.0 + 84.0°	200
Efficiency	88 %	600 600
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	5 <sup>-</sup>
Light colour	White	
Required components:		



SEQUI SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	Z8Y22 90.0 + 40.0° / 128.0 + 95.0° 92 % 0.7 cd/lm 1 White	
SEOUL SEMICONDUCTOR		50° 50)
LED	Z8Y22P	
FWHM / FWTM	28Y22P 91.0 + 40.0° / 131.0 + 95.0°	
FWHM / FWTM Efficiency	91.0 + 40.0° / 131.0 + 95.0° 91 %	57
FWHM / FWTM Efficiency Peak intensity	91.0 + 40.0° / 131.0 + 95.0° 91 % 0.7 cd/lm	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	91.0 + 40.0° / 131.0 + 95.0° 91 % 0.7 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity	91.0 + 40.0° / 131.0 + 95.0° 91 % 0.7 cd/lm 1 White	77 61 200 74 40 67



#### **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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#### LEDiL Oy

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