

## HB-IP-24-O

~40° + 75° oval beam for aisle lighting

### SPECIFICATION:

Dimensions	173.0 x 71.4 mm
Height	10 mm
Fastening	pin, screw
Ingress protection classes	IP66, IP67
ROHS compliant	yes ⓘ

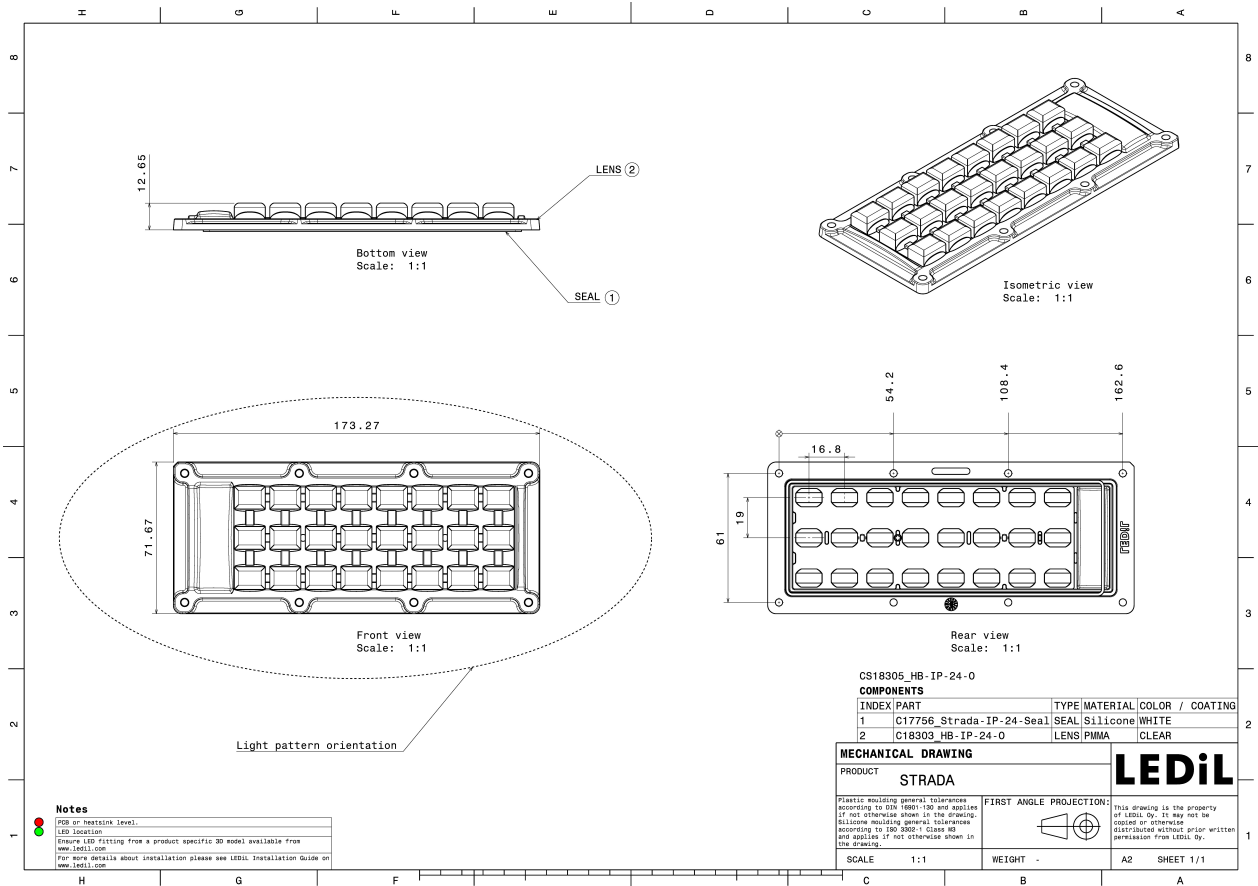
### MATERIALS:

Component	Type	Material	Colour	Finish
HB-IP-24-O	Multi-lens	PMMA	clear	
STRADA-IP-24-SEAL	Seal	Silicone	white	



### ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
CS18305_HB-IP-24-O » Box size: 476 x 273 x 247 mm	108	108	36	8.3

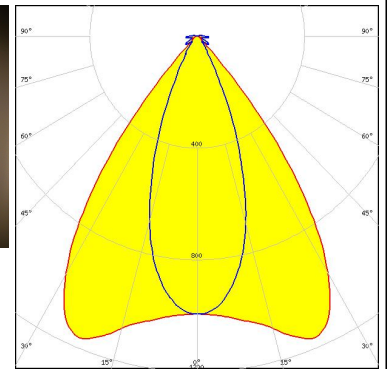
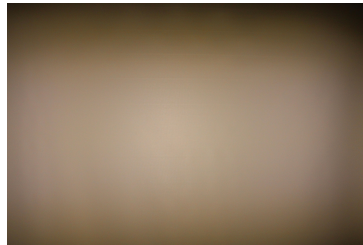


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

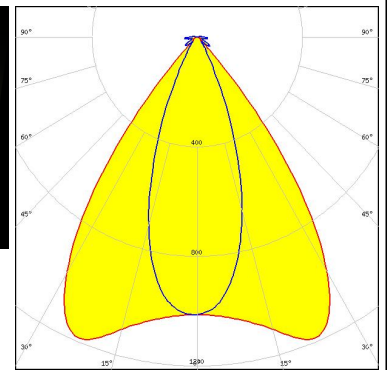
#### OPTICAL RESULTS (MEASURED):



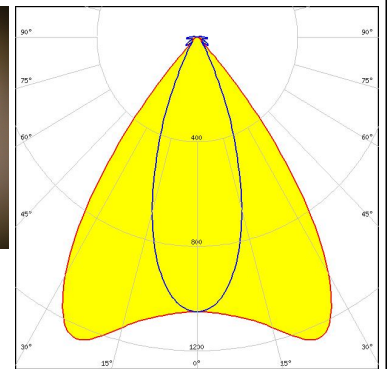
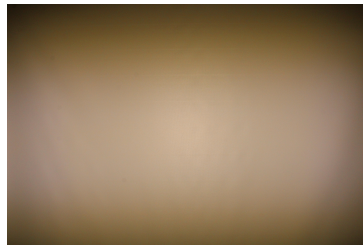
LED LIGHT ENGINE STRADA-IP 24 LEDs 147.4 x 46.2 x 1.5  
 FWHM / FWTM 73.0 + 39.0° / 88.0 + 63.0°  
 Efficiency 91 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



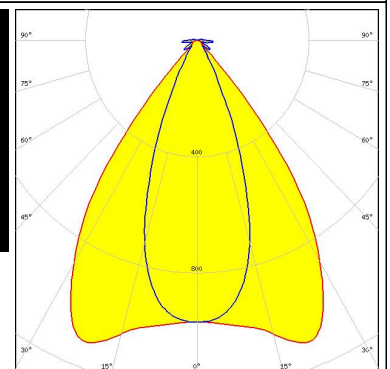
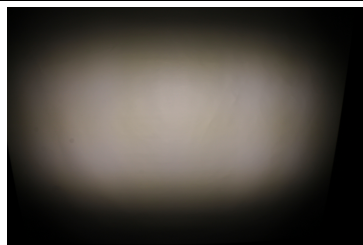
LED LUXEON 5050 Square LES  
 FWHM / FWTM 73.0 + 38.0° / 88.0 + 63.0°  
 Efficiency %  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED LUXEON XR-5050 HE (L225-xxx024MLU010)  
 FWHM / FWTM 72.0 + 37.0° / 86.0 + 62.0°  
 Efficiency 93 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



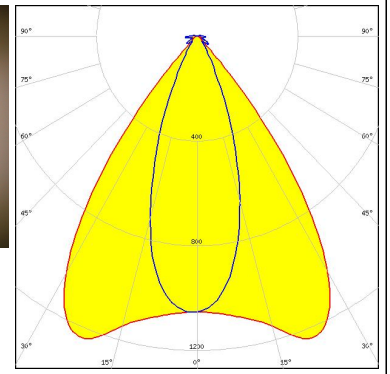
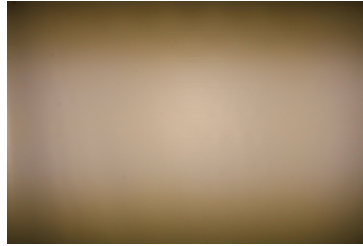
LED Duris S8  
 FWHM / FWTM 74.0 + 40.0° / 88.0 + 63.0°  
 Efficiency 92 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OPTICAL RESULTS (MEASURED):

### SAMSUNG

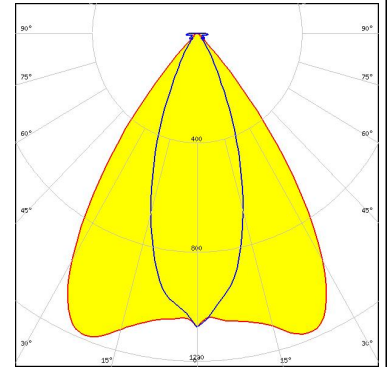
LED HiLOM RM24 ZP (LH502D)  
FWHM / FWTM 73.0 + 37.0° / 87.0 + 62.0°  
Efficiency 93 %  
Peak intensity 1.2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



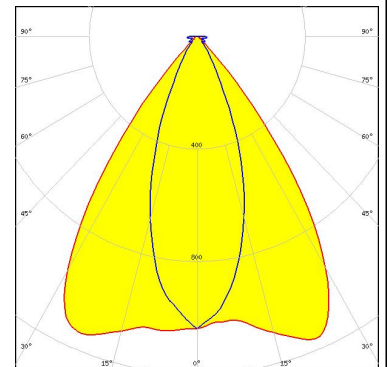
#### OPTICAL RESULTS (SIMULATED):



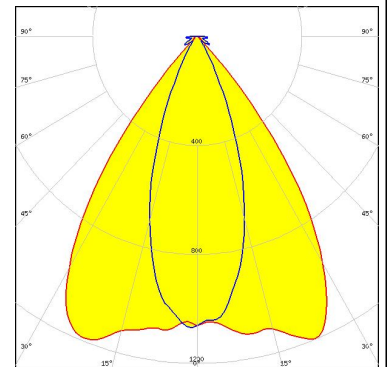
LED J Series 5050C 6V E Class  
 FWHM / FWTM 72.0 + 36.0° / 88.0 + 64.0°  
 Efficiency 90 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



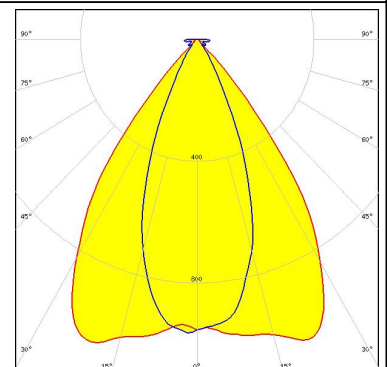
LED LUXEON 5050 HE  
 FWHM / FWTM 72.0 + 38.0° / 88.0 + 66.0°  
 Efficiency 90 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



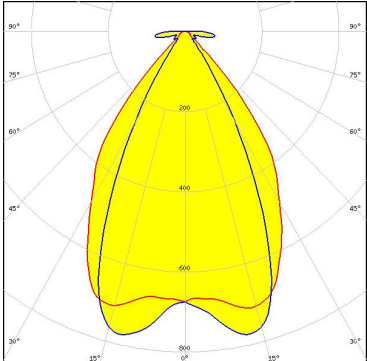
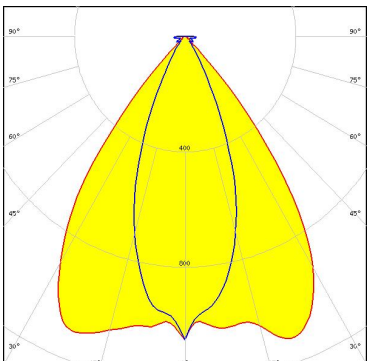
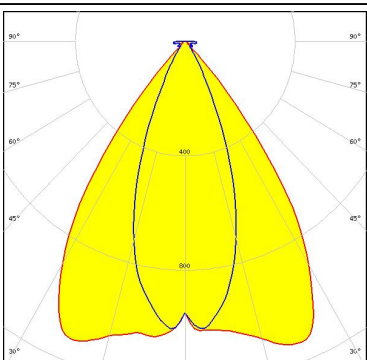
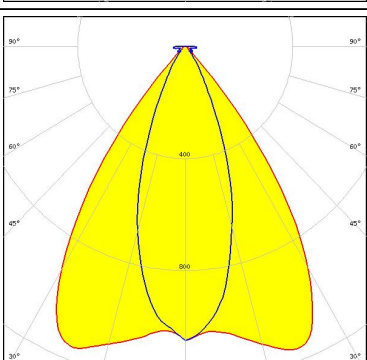
LED LUXEON 5050 Round LES  
 FWHM / FWTM 72.0 + 38.0° / 88.0 + 62.0°  
 Efficiency 91 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED RecLED 147x47mm 5800lm 7x0 5050 STRADA-IP-24 G2  
 FWHM / FWTM 74.0 + 42.0° / 90.0 + 66.0°  
 Efficiency 90 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



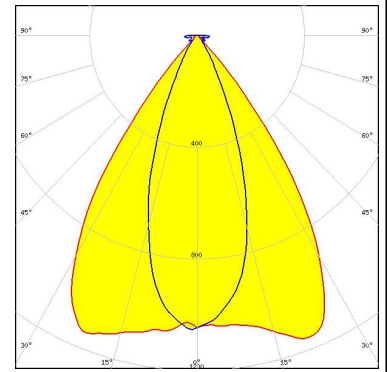
### OPTICAL RESULTS (SIMULATED):

<p><b>NICHIA</b></p> <p>LED NF2x757G FWHM / FWTM 74.0 + 54.0° / 94.0 + 165.0° Efficiency 86 % Peak intensity 0.8 cd/lm LEDs/each optic 4 Light colour White Required components:</p>	
<p><b>NICHIA</b></p> <p>LED NFMW48xA FWHM / FWTM 74.0 + 40.0° / 90.0 + 64.0° Efficiency 90 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p><b>SAMSUNG</b></p> <p>LED HiLOM RM24 ZP (LH502C) FWHM / FWTM 72.0 + 40.0° / 88.0 + 65.0° Efficiency 90 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p><b>SAMSUNG</b></p> <p>LED LH502D FWHM / FWTM 72.0 + 38.0° / 88.0 + 66.0° Efficiency 90 % Peak intensity 1.2 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	

#### OPTICAL RESULTS (SIMULATED):

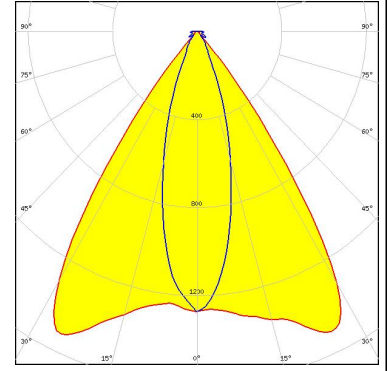
### SAMSUNG

LED LH508C  
 FWHM / FWTM 72.0 + 38.0° / 86.0 + 64.0°  
 Efficiency 90 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



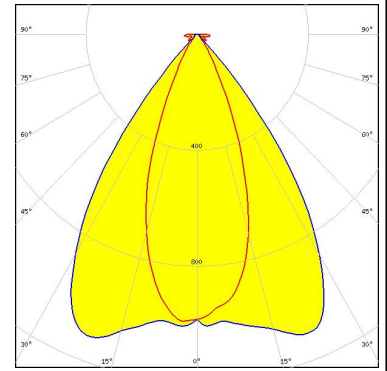
### SAMSUNG

LED LM301D  
 FWHM / FWTM 70.0 + 29.0° / 82.0 + 54.0°  
 Efficiency 91 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



SEOUL SEMICONDUCTOR

LED SEOUL DC 5050 6V  
 FWHM / FWTM 72.0 + 40.0° / 88.0 + 66.0°  
 Efficiency 90 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### 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:

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