

## HB-IP-24-WWW

~90° wide beam

### SPECIFICATION:

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

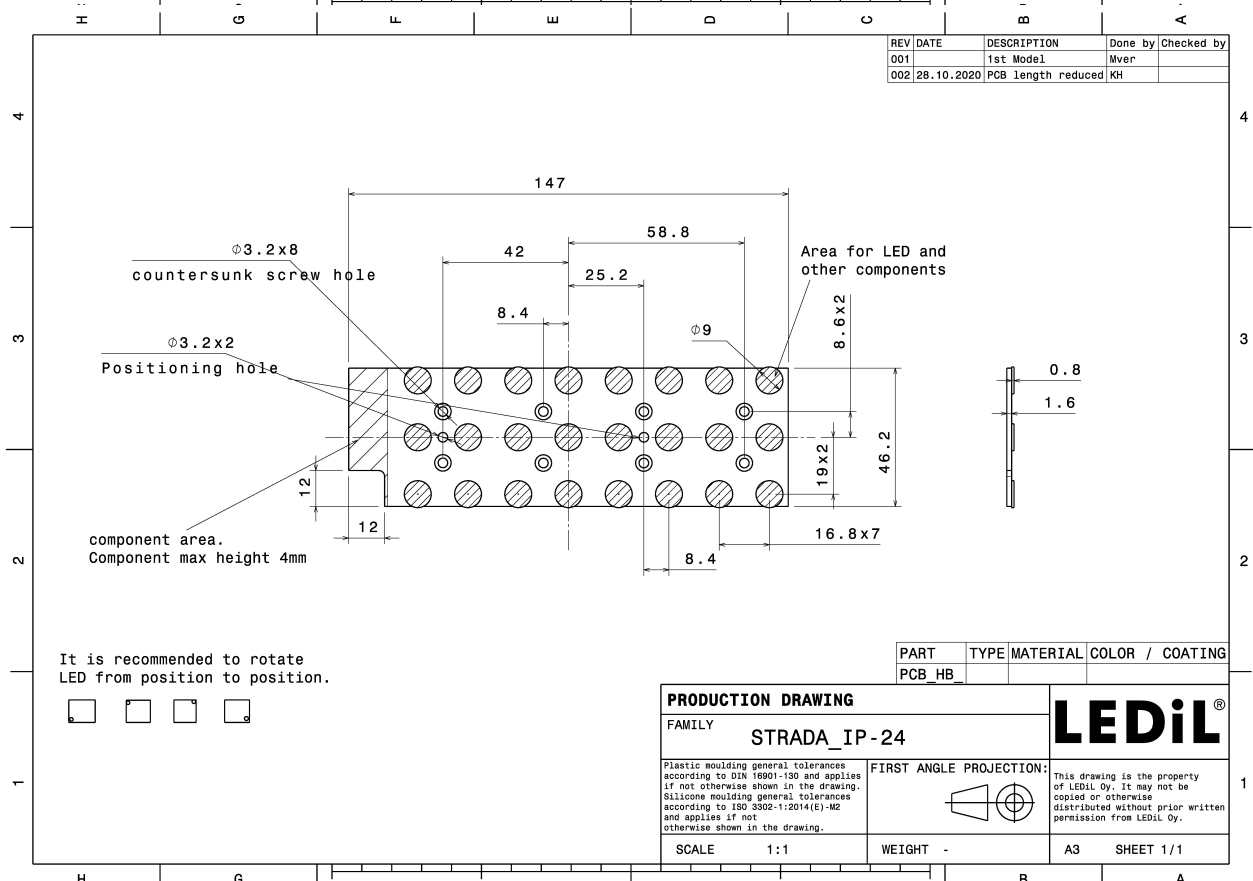
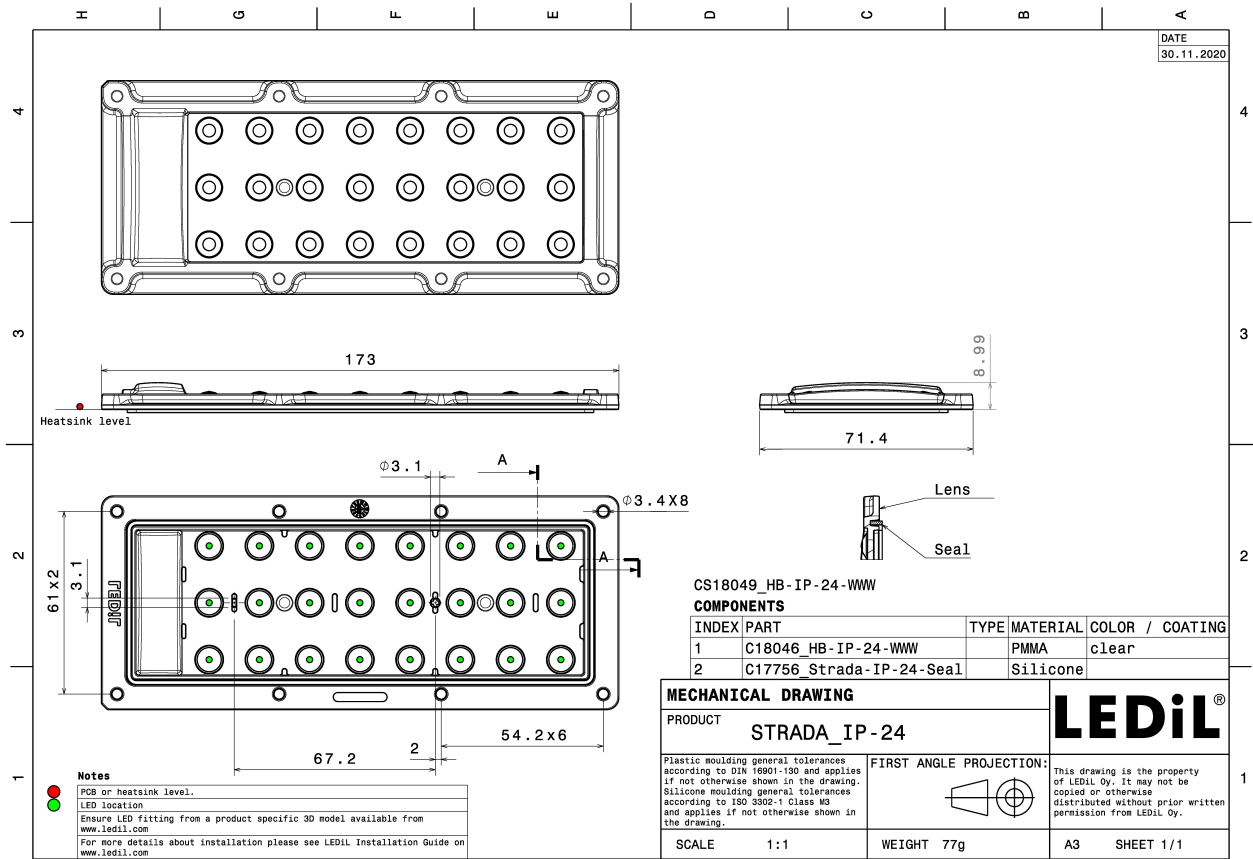
### MATERIALS:

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



### ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
CS18049_HB-IP-24-WWW » Box size: 476 x 273 x 247 mm	120	120	40	5.2

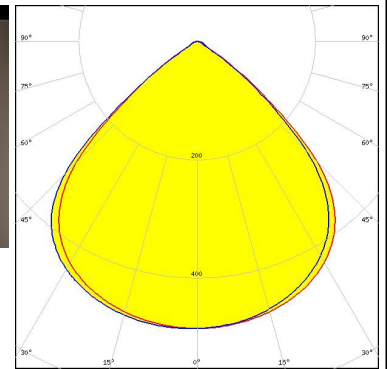


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

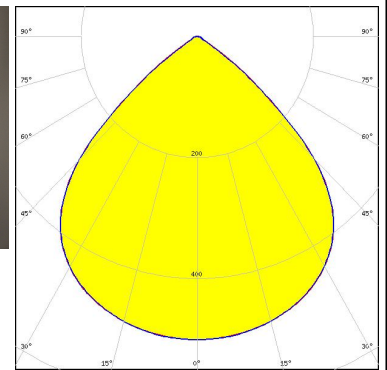
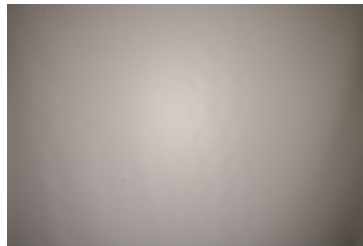
#### OPTICAL RESULTS (MEASURED):



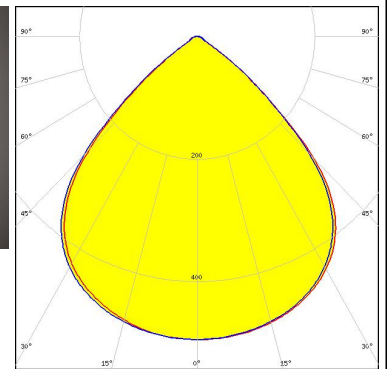
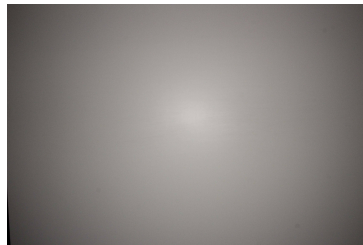
**LED** LIGHT ENGINE STRADA-IP 24 LEDs 147.4 x 46.2 x 1.5  
**FWHM / FWTM** 94.0° / 114.0°  
**Efficiency** 96 %  
**Peak intensity** 0.5 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**



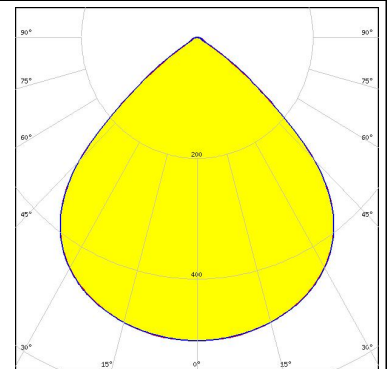
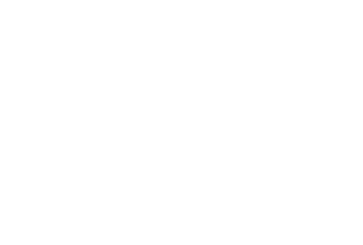
**LED** LUXEON 5050 HE  
**FWHM / FWTM** 93.0° / 113.0°  
**Efficiency** 96 %  
**Peak intensity** 0.5 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**



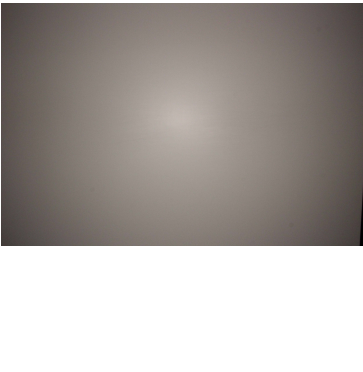
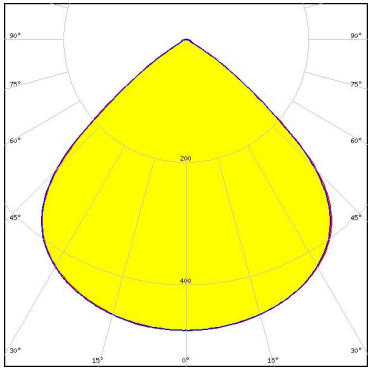

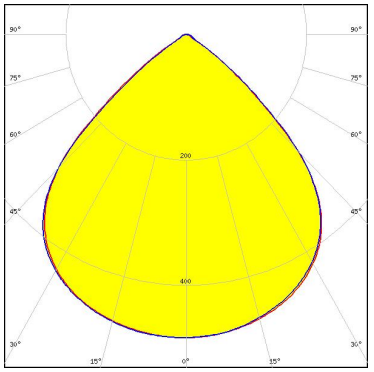
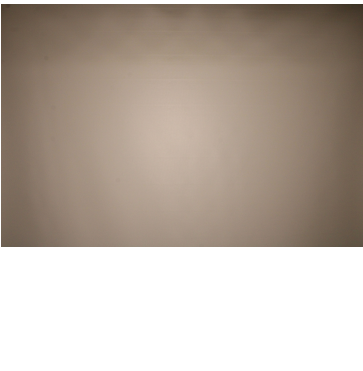
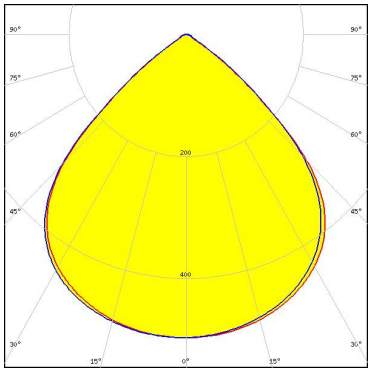
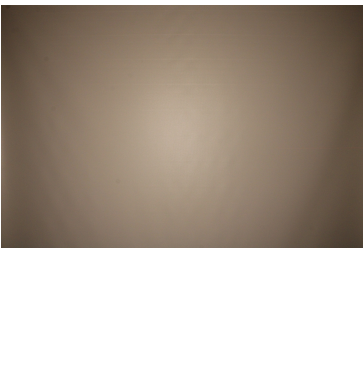
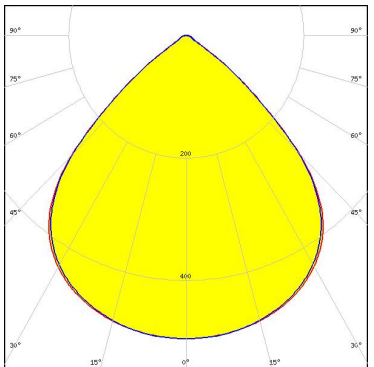
**LED** LUXEON 5050 Square LES  
**FWHM / FWTM** 92.0° / 112.0°  
**Efficiency** 95 %  
**Peak intensity** 0.5 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**



**LED** LUXEON XR-5050 HE (L225-xxxx024MLU010)  
**FWHM / FWTM** 93.0° / 113.0°  
**Efficiency** 97 %  
**Peak intensity** 0.5 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**



### OPTICAL RESULTS (MEASURED):


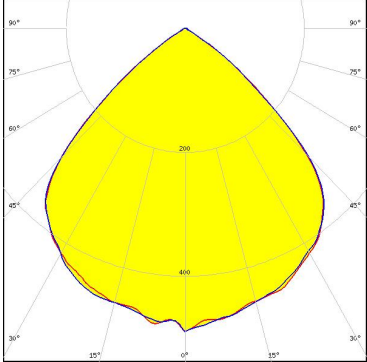
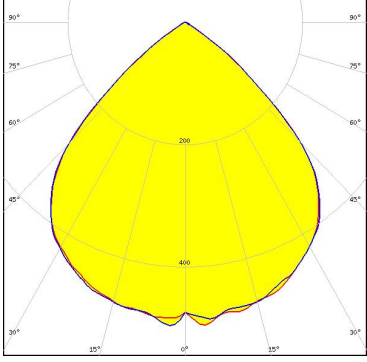
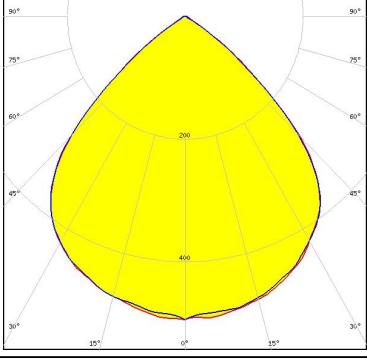
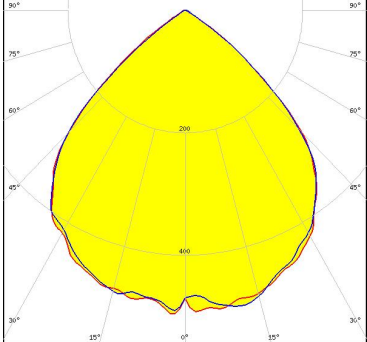
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED Duris S8</p> <p>FWHM / FWTM 96.0° / 114.0°</p> <p>Efficiency 96 %</p> <p>Peak intensity 0.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSCONIQ S 5050</p> <p>FWHM / FWTM 94.0° / 113.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 0.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p><b>SAMSUNG</b></p> <p>LED HiLOM RM24 ZP (LH502D)</p> <p>FWHM / FWTM 94.0° / 114.0°</p> <p>Efficiency 97 %</p> <p>Peak intensity 0.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p><b>SCIOLUX</b></p> <p>LED CHI-VP-10K5-740-36</p> <p>FWHM / FWTM 92.0° / 112.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 0.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		



### OPTICAL RESULTS (SIMULATED):

<p><b>CREE</b> LED</p> <p>LED J Series 3030            FWHM / FWTM 86.0° / 112.0°            Efficiency 93 %            Peak intensity 0.6 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>CREE</b> LED</p> <p>LED J Series 5050 Round LES            FWHM / FWTM 94.0° / 114.0°            Efficiency 93 %            Peak intensity 0.5 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>CREE</b> LED</p> <p>LED J Series 5050C 6V E Class            FWHM / FWTM 94.0° / 114.0°            Efficiency 93 %            Peak intensity 0.5 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>MST</b> Your solutions</p> <p>LED RecLED 147x47mm 5800lm 7x0 5050 STRADA-IP-24 G2            FWHM / FWTM 95.0° / 114.0°            Efficiency 93 %            Peak intensity 0.5 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	

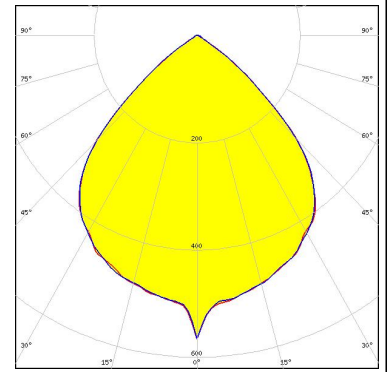
### OPTICAL RESULTS (SIMULATED):

 LED NFMW48xA FWHM / FWTM 94.0° / 114.0° Efficiency 93 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White Required components:	
<b>SAMSUNG</b> LED HiLOM RM24 ZP (LH502C) FWHM / FWTM 93.0° / 114.0° Efficiency 93 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White Required components:	
<b>SAMSUNG</b> LED LH502C FWHM / FWTM 92.0° / 113.0° Efficiency 93 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White Required components:	
<b>SAMSUNG</b> LED LH502D FWHM / FWTM 93.0 + 94.0° / 114.0 + 113.0° Efficiency 93 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White Required components:	

### OPTICAL RESULTS (SIMULATED):

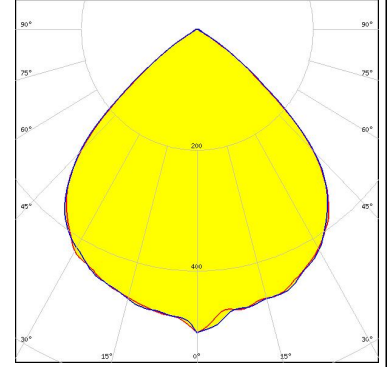
#### SAMSUNG

LED LH508C  
FWHM / FWTM 89.0° / 112.0°  
Efficiency 93 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



SEOUL SEMICONDUCTOR

LED SEOUL DC 5050 6V  
FWHM / FWTM 94.0° / 114.0°  
Efficiency 93 %  
Peak intensity 0.5 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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