

## HB-IP-24-M

~30° wide beam.

### SPECIFICATION:

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

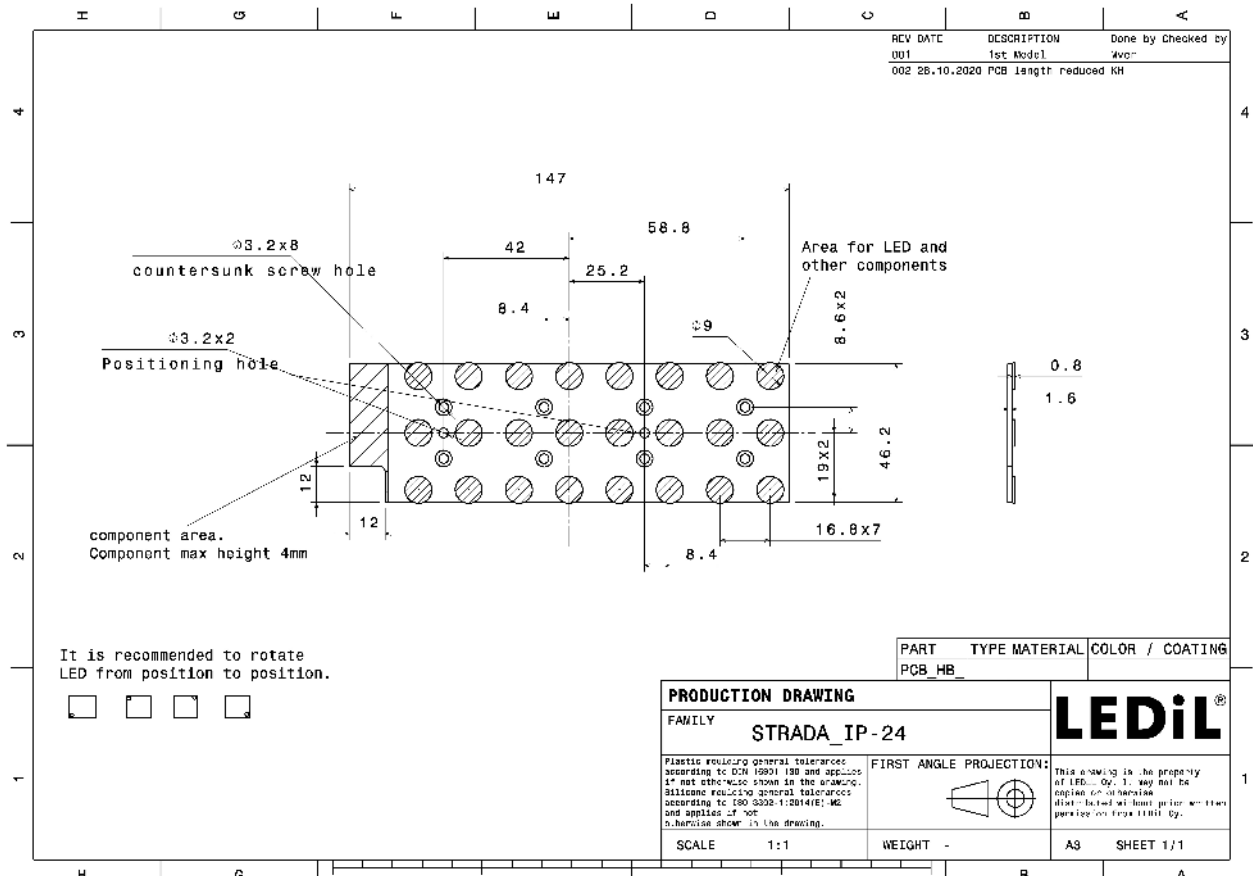
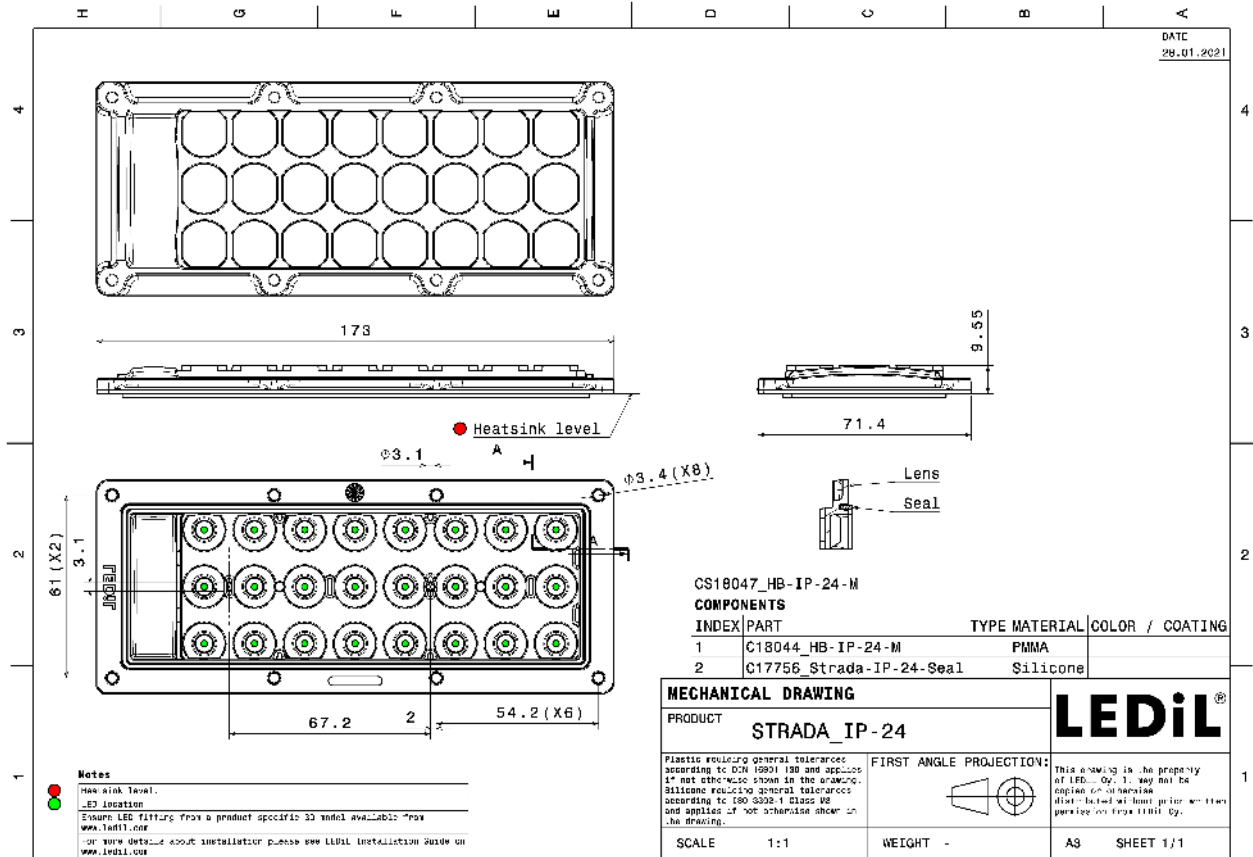
### MATERIALS:

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




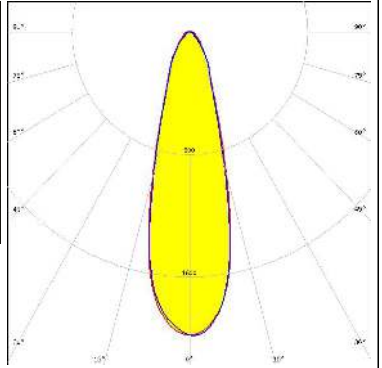

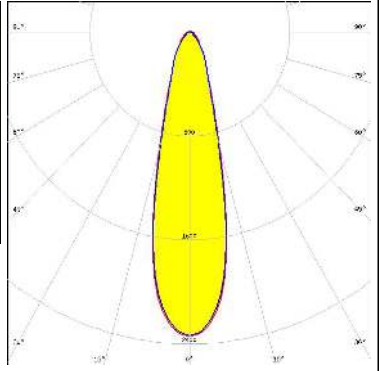

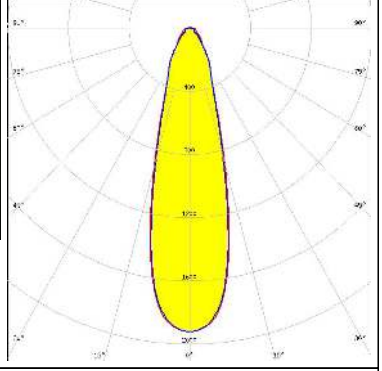

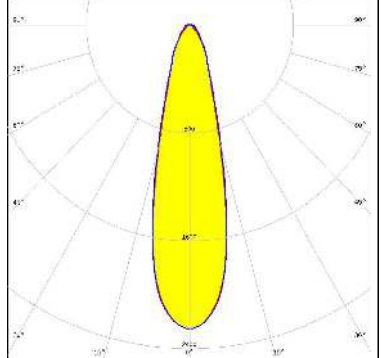
### ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
CS18047_HB-IP-24-M » Box size: 476 x 273 x 247 mm	120	120	40	7.0



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

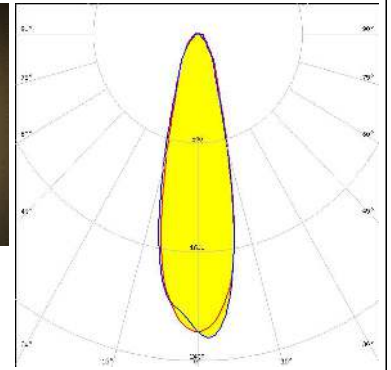
#### OPTICAL RESULTS (MEASURED):

<p><b>AUDAX</b> FIFETRONICS</p> <p>LED LIGHT ENGINE STRADA-IP 24 LEDs 147.4 x 46.2 x 1.5</p> <p>FWHM / FWTM 29.0° / 68.0°</p> <p>Efficiency 96 %</p> <p>Peak intensity 2 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON 5050 HE</p> <p>FWHM / FWTM 26.0° / 62.0°</p> <p>Efficiency 96 %</p> <p>Peak intensity 2.3 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON 5050 Square LES</p> <p>FWHM / FWTM 29.0° / 68.0°</p> <p>Efficiency 95 %</p> <p>Peak intensity 1.9 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON XR-5050 HE (L225-xxxx024MLU010)</p> <p>FWHM / FWTM 27.0° / 64.0°</p> <p>Efficiency 97 %</p> <p>Peak intensity 2.3 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

#### OPTICAL RESULTS (MEASURED):

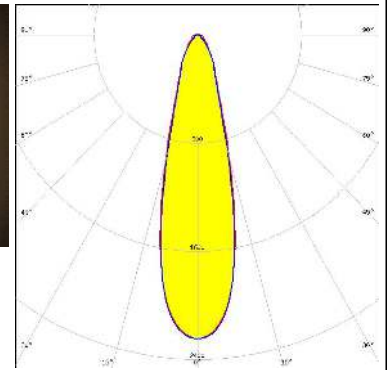
### SAMSUNG

LED HiLOM RM24 ZP (LH502D)  
 FWHM / FWTM 27.0° / 65.0°  
 Efficiency 97 %  
 Peak intensity 2.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



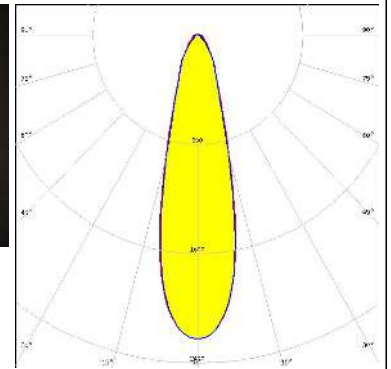
### SCIOLUX

LED CHI-VP-10K5-740-36  
 FWHM / FWTM 27.0° / 63.0°  
 Efficiency 95 %  
 Peak intensity 2.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

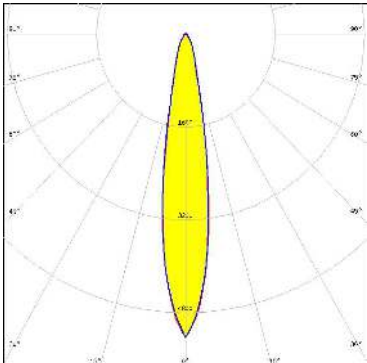
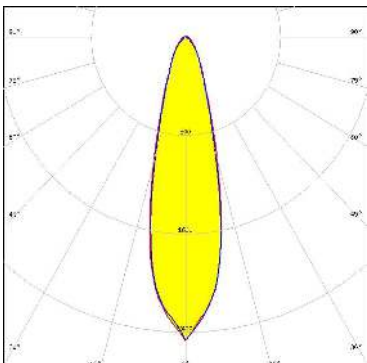
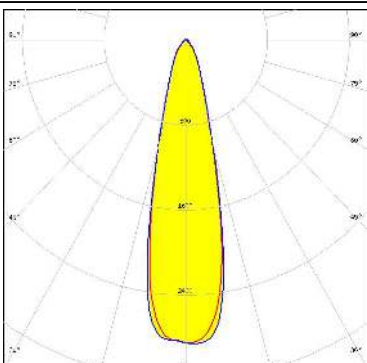
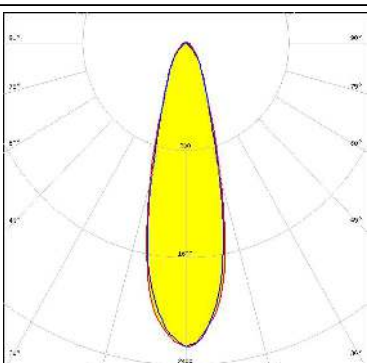


### SCIOLUX

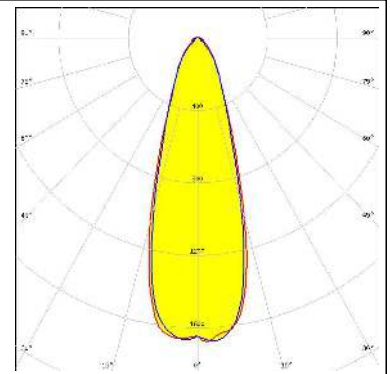
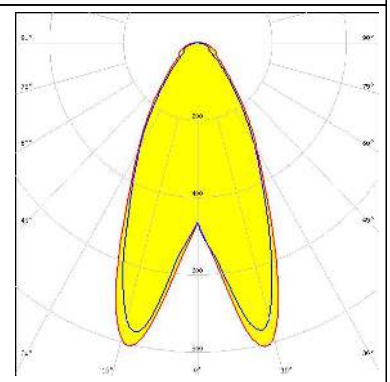
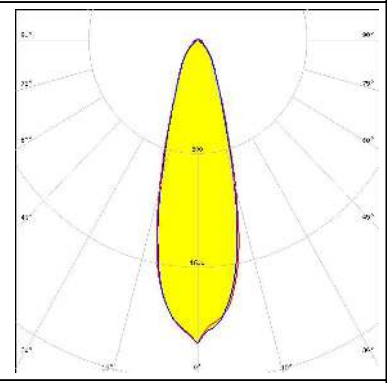
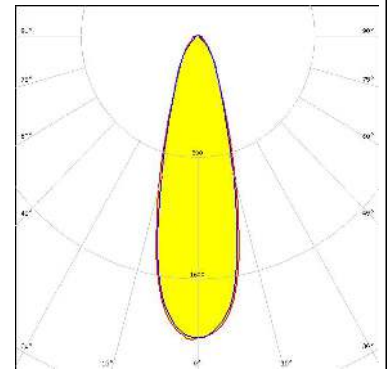
LED CHIEC-VE-11K4-740-48  
 FWHM / FWTM 28.0 + 27.0° / 64.0 + 65.0°  
 Efficiency 97 %  
 Peak intensity 2.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OPTICAL RESULTS (SIMULATED):

<p><b>CREE LED</b></p> <p>LED J Series 3030            FWHM / FWTM 18.0° / 38.0°            Efficiency 95 %            Peak intensity 5.2 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>CREE LED</b></p> <p>LED J Series 5050C 6V E Class            FWHM / FWTM 27.0° / 60.0°            Efficiency 96 %            Peak intensity 2.5 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>CREE LED</b></p> <p>LED XP-G3            FWHM / FWTM 26.0° / 54.0°            Efficiency 95 %            Peak intensity 2.9 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>LUMILEDS</b></p> <p>LED LUXEON 5050 Round LES            FWHM / FWTM 28.0° / 64.0°            Efficiency 96 %            Peak intensity 2.3 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	

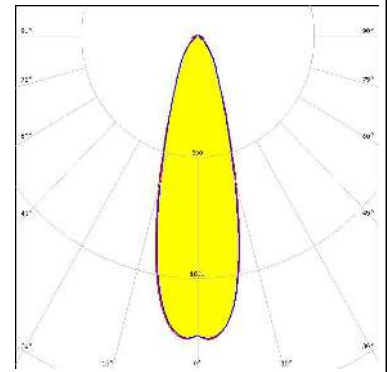
#### OPTICAL RESULTS (SIMULATED):

<p><b>MST</b> <small>Your solutions</small></p> <p>LED RecLED 147x47mm 5800lm 7x0 5050 STRADA-IP-24 G2</p> <p>FWHM / FWTM 33.0° / 74.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 1.7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p><b>NICHIA</b></p> <p>LED NF2x757G</p> <p>FWHM / FWTM 52.0° / 100.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 0.8 cd/lm</p> <p>LEDs/each optic 4</p> <p>Light colour White</p> <p>Required components:</p>	
<p><b>NICHIA</b></p> <p>LED NFMW48xA</p> <p>FWHM / FWTM 30.0° / 66.0°</p> <p>Efficiency 96 %</p> <p>Peak intensity 2.1 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 (LH502C)</p> <p>FWHM / FWTM 30.0° / 68.0°</p> <p>Efficiency 95 %</p> <p>Peak intensity 2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	

#### OPTICAL RESULTS (SIMULATED):

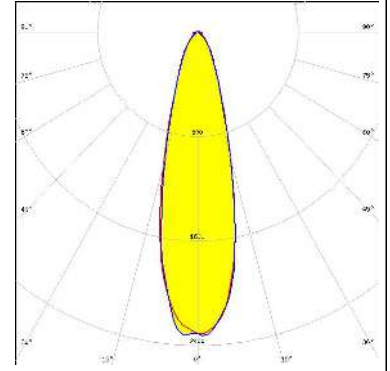
### SAMSUNG

LED LH502C  
 FWHM / FWTM 30.0° / 68.0°  
 Efficiency 95 %  
 Peak intensity 2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



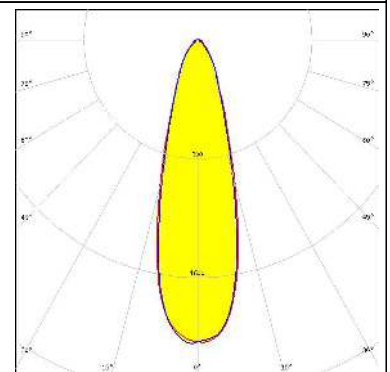
### SAMSUNG

LED LH502D  
 FWHM / FWTM 28.0° / 62.0°  
 Efficiency 96 %  
 Peak intensity 2.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



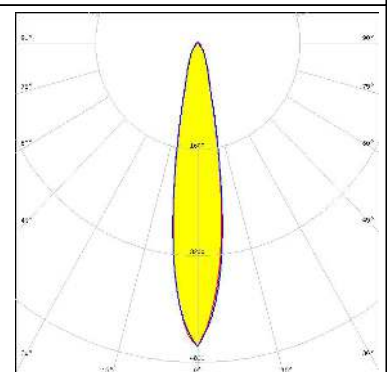
### SAMSUNG

LED LH508C  
 FWHM / FWTM 29.0° / 67.0°  
 Efficiency 95 %  
 Peak intensity 2.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### SAMSUNG

LED LM301D  
 FWHM / FWTM 18.0° / 42.0°  
 Efficiency 95 %  
 Peak intensity 4.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### OPTICAL RESULTS (SIMULATED):





### 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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