

## 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 ⓘ           |

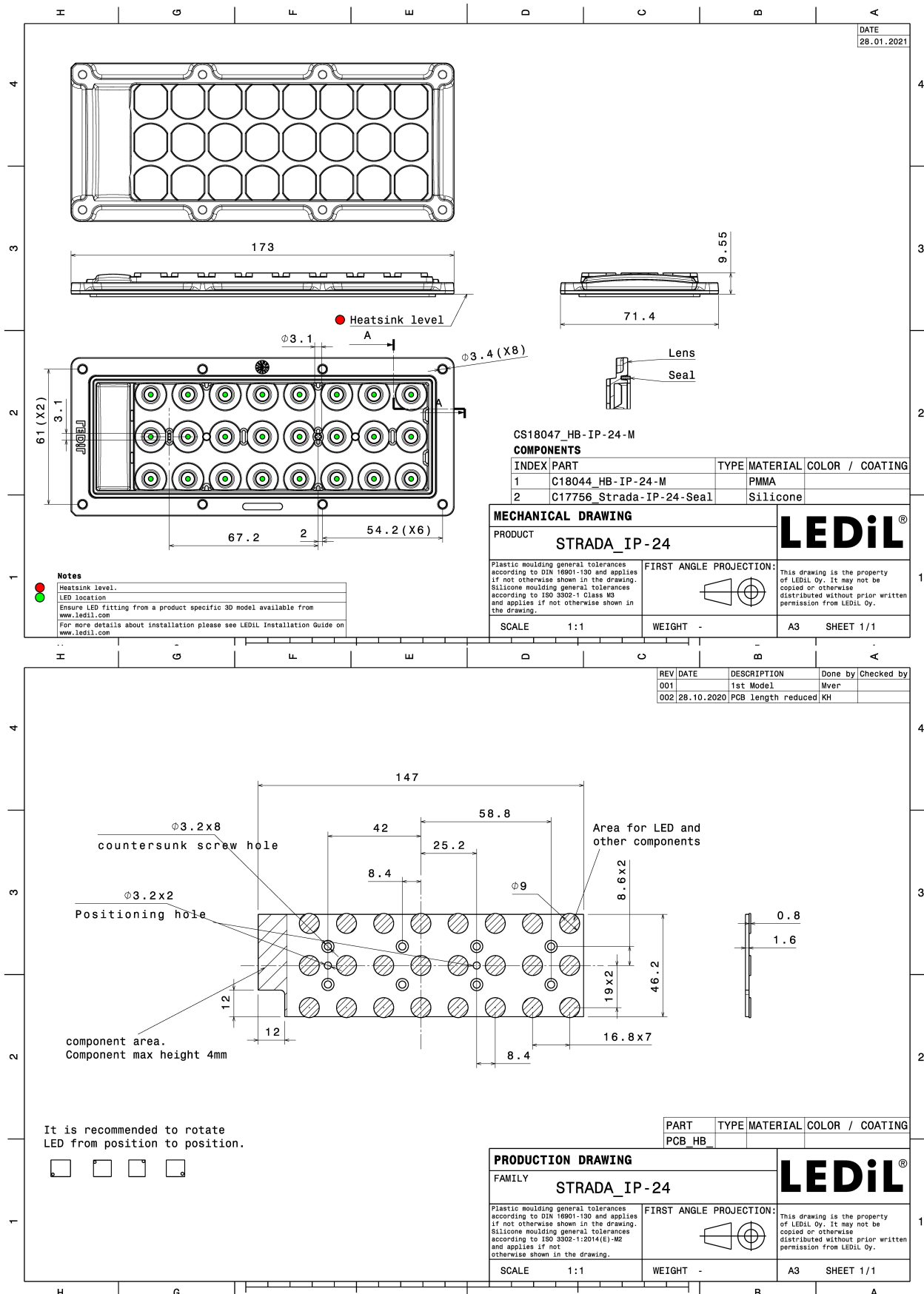
### MATERIALS:

| 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<br>» Box size: 476 x 273 x 247 mm | 120        | 120 | 40  | 7.0             |

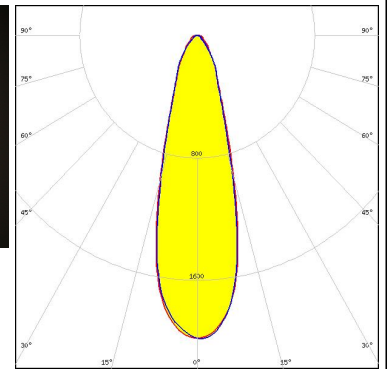
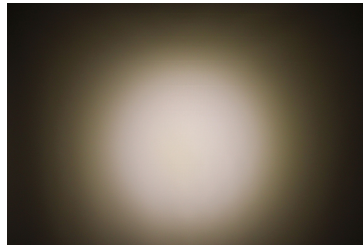


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

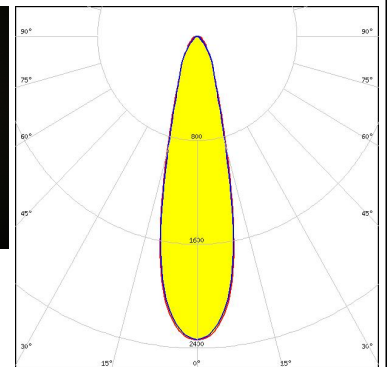
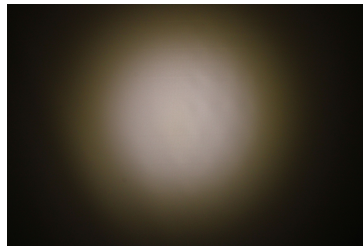
### OPTICAL RESULTS (MEASURED):



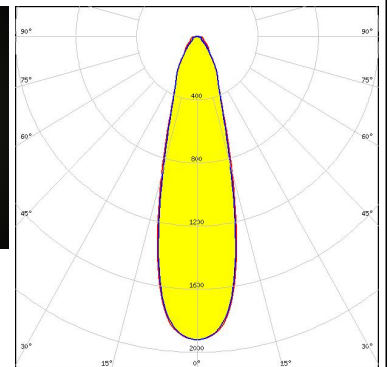
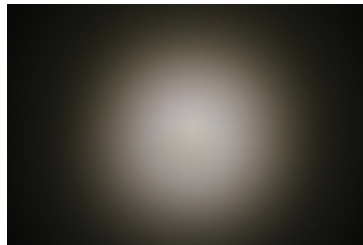
LED LIGHT ENGINE STRADA-IP 24 LEDs 147.4 x 46.2 x 1.5  
FWHM / FWTM 29.0° / 68.0°  
Efficiency 96 %  
Peak intensity 2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



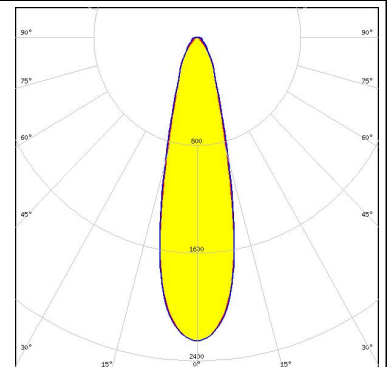
LED LUXEON 5050 HE  
FWHM / FWTM 26.0° / 62.0°  
Efficiency 96 %  
Peak intensity 2.3 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED LUXEON 5050 Square LES  
FWHM / FWTM 29.0° / 68.0°  
Efficiency 95 %  
Peak intensity 1.9 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



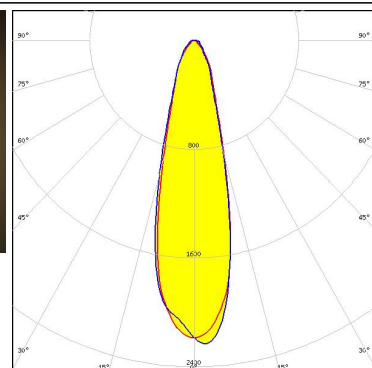
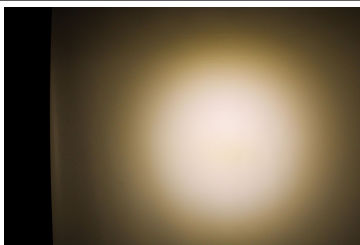
LED LUXEON XR-5050 HE (L225-xxxx024MLU010)  
FWHM / FWTM 27.0° / 64.0°  
Efficiency 97 %  
Peak intensity 2.3 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



### OPTICAL RESULTS (MEASURED):

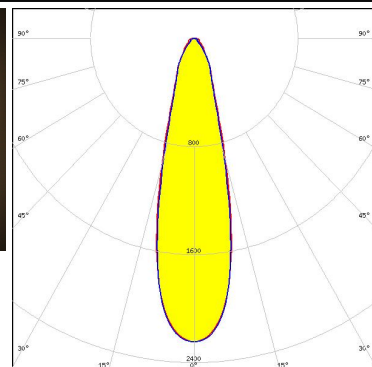
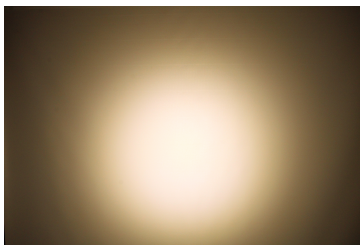
#### SAMSUNG

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:



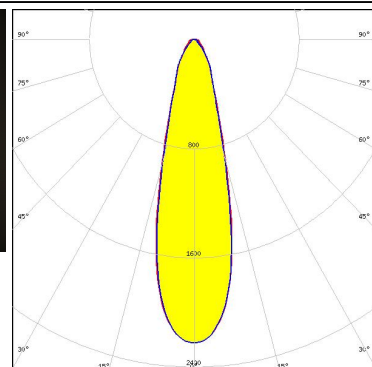
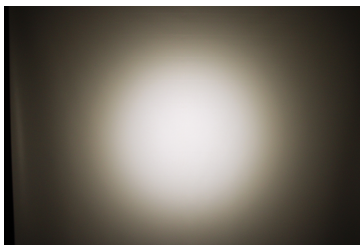
#### SCIOLUX

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:

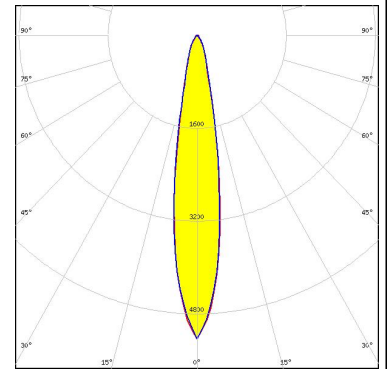




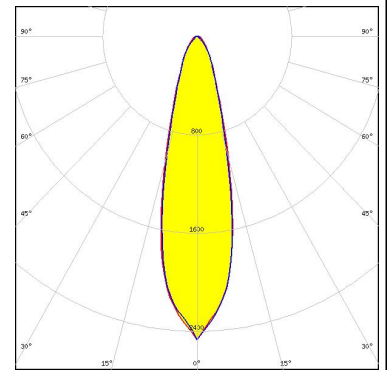
#### OPTICAL RESULTS (SIMULATED):



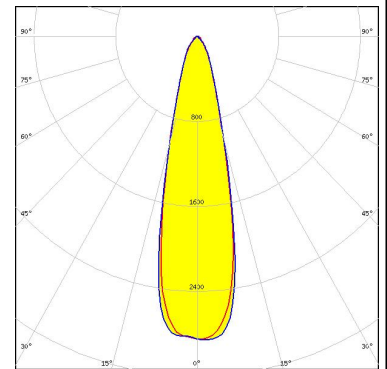
LED J Series 3030  
FWHM / FWTM 18.0° / 38.0°  
Efficiency 95 %  
Peak intensity 5.2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



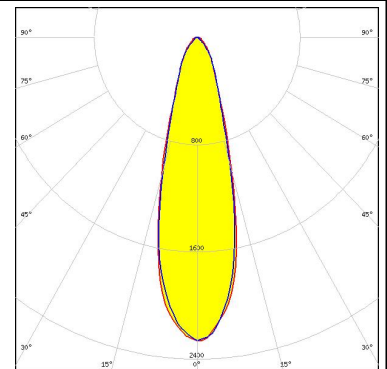
LED J Series 5050C 6V E Class  
FWHM / FWTM 27.0° / 60.0°  
Efficiency 96 %  
Peak intensity 2.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



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:



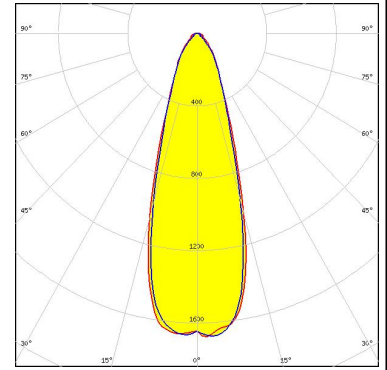
LED LUXEON 5050 Round LES  
FWHM / FWTM 28.0° / 64.0°  
Efficiency 96 %  
Peak intensity 2.3 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



### OPTICAL RESULTS (SIMULATED):

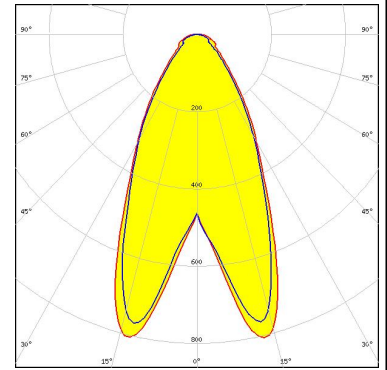
#### MST Your solutions

LED RecLED 147x47mm 5800lm 7x0 5050 STRADA-IP-24 G2  
 FWHM / FWTM 33.0° / 74.0°  
 Efficiency 93 %  
 Peak intensity 1.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



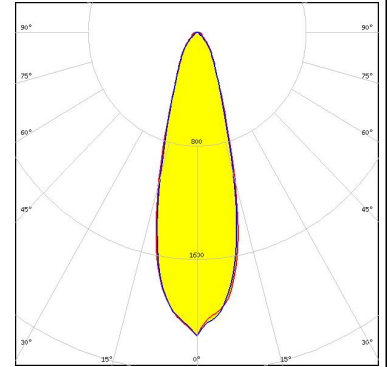
#### NICHIA

LED NF2x757G  
 FWHM / FWTM 52.0° / 100.0°  
 Efficiency 93 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 4  
 Light colour White  
 Required components:



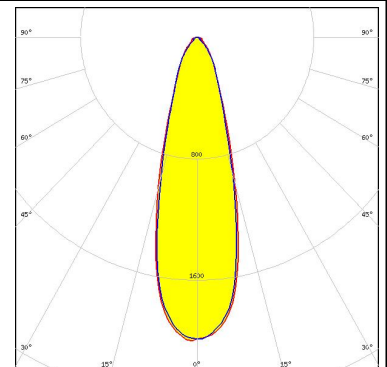
#### NICHIA

LED NFMW48xA  
 FWHM / FWTM 30.0° / 66.0°  
 Efficiency 96 %  
 Peak intensity 2.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### SAMSUNG

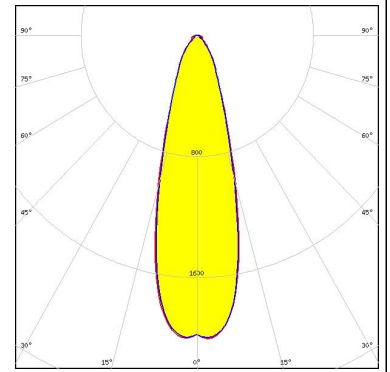
LED HiLOM RM24 ZP (LH502C)  
 FWHM / FWTM 30.0° / 68.0°  
 Efficiency 95 %  
 Peak intensity 2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### OPTICAL RESULTS (SIMULATED):

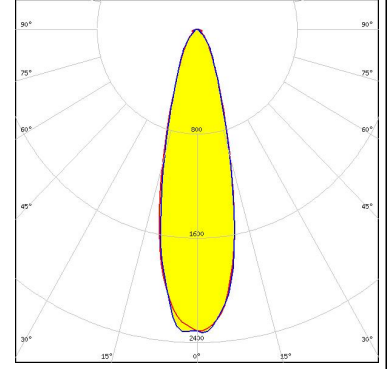
#### SAMSUNG

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



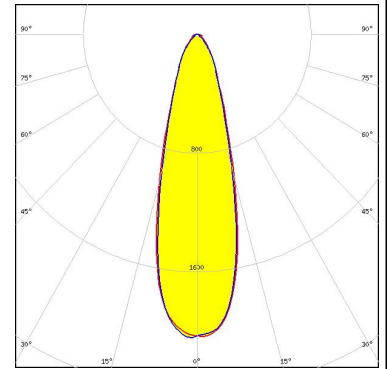
#### SAMSUNG

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:



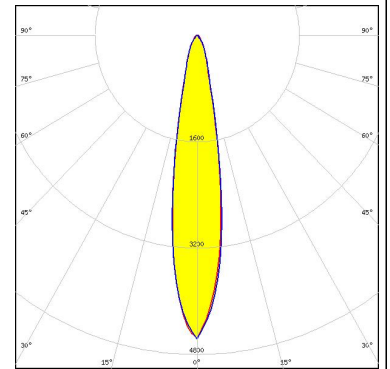
#### SAMSUNG

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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