

# HB-IP-24-M

~30° wide beam.

#### **SPECIFICATION:**

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



PRODUCT DATASHEET CS18047\_HB-IP-24-M

# MATERIALS:

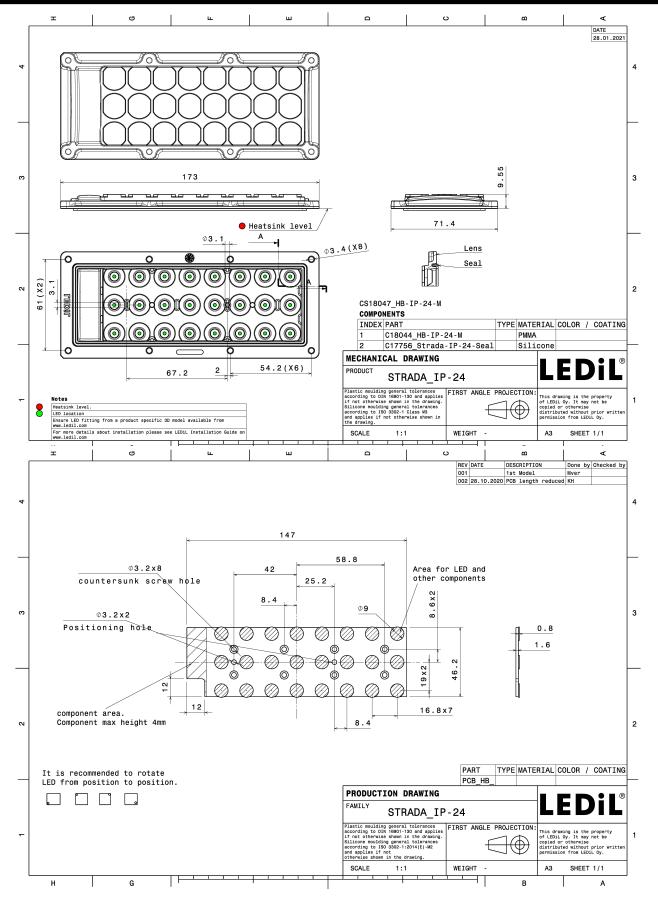
| Component         | Туре       | Material | Colour | Finish | Length (mm) |
|-------------------|------------|----------|--------|--------|-------------|
| HB-IP-24-M        | Multi-lens | PMMA     | clear  |        |             |
| STRADA-IP-24-SEAL | Seal       | Silicone | white  |        |             |

#### **ORDERING INFORMATION:**

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



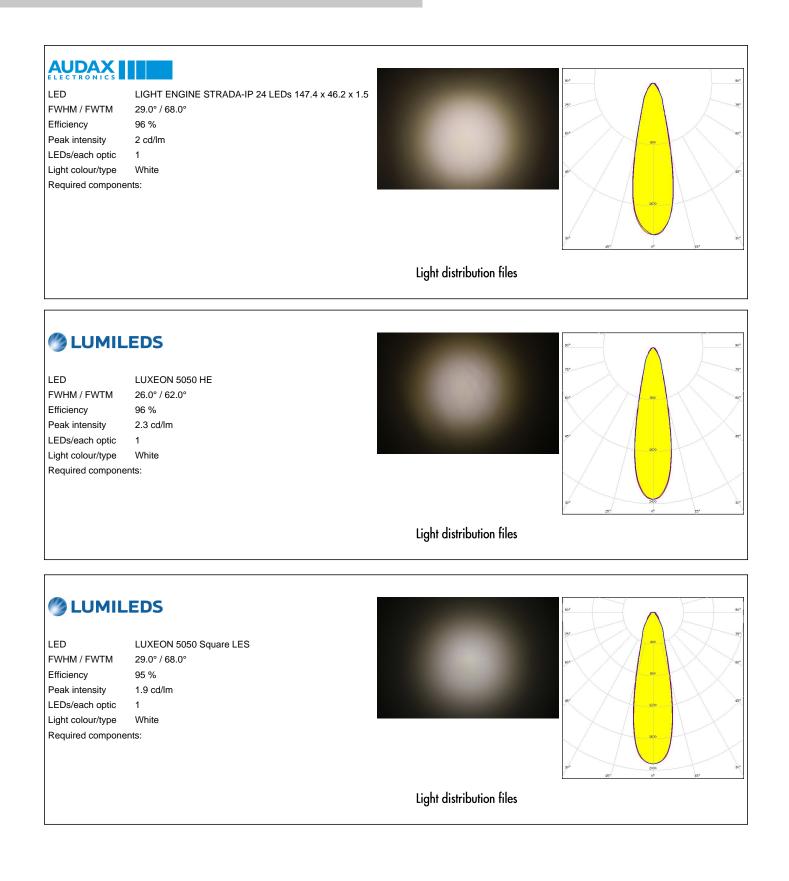
# PRODUCT DATASHEET CS18047\_HB-IP-24-M



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



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



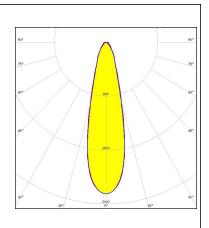


## **OPTICAL RESULTS (MEASURED):**

# UMILEDS

| LED               | L   |
|-------------------|-----|
| FWHM / FWTM       | 27  |
| Efficiency        | 9   |
| Peak intensity    | 2   |
| LEDs/each optic   | 1   |
| Light colour/type | W   |
| Required componen | ts: |

LUXEON XR-5050 HE (L225-xxxx024MLU010) 27.0° / 64.0° 97 % 2.3 cd/lm 1 White

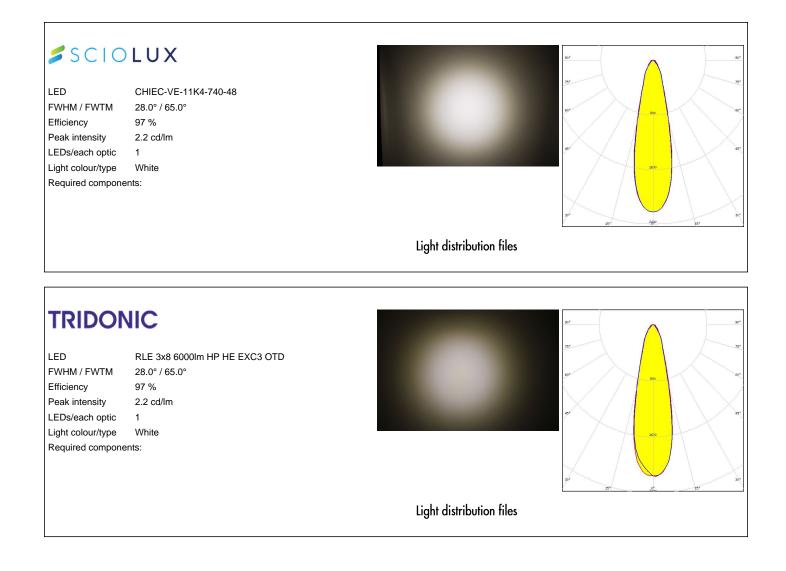


Light distribution files

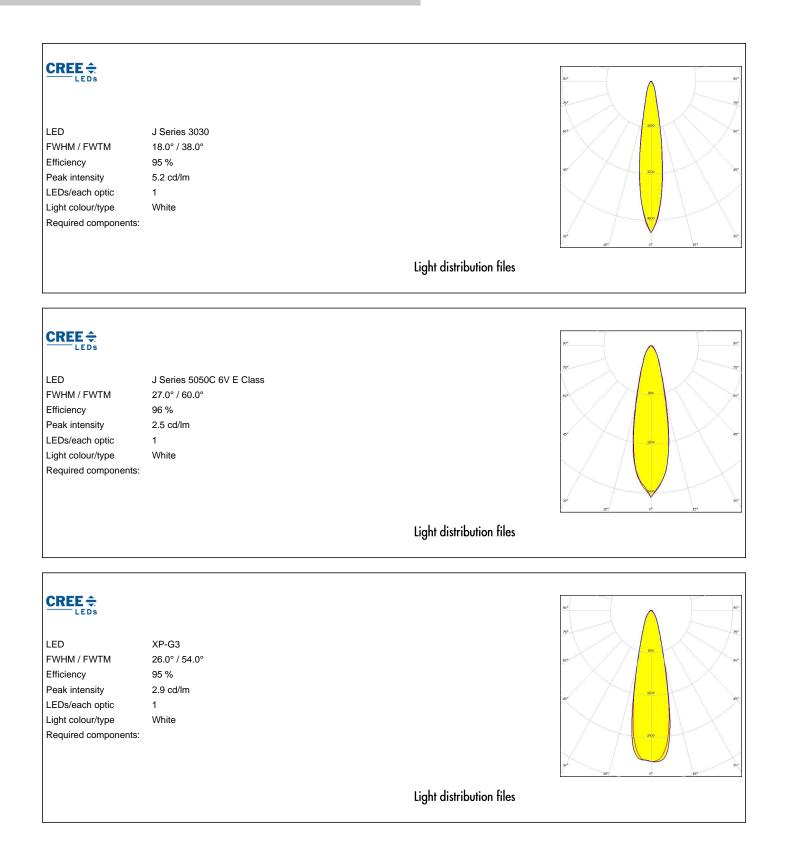
#### SAMSUNG LED HiLOM RM24 ZP (LH502D) FWHM / FWTM 27.0° / 65.0° Efficiency 97 % Peak intensity 2.2 cd/lm LEDs/each optic 1 Light colour/type White Required components: Light distribution files SCIOLUX LED CHI-VP-10K5-740-36 FWHM / FWTM 27.0° / 63.0° Efficiency 95 % Peak intensity 2.3 cd/lm LEDs/each optic 1 Light colour/type White Required components: Light distribution files



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





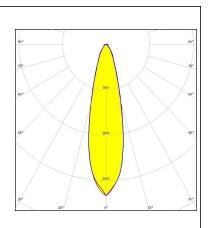




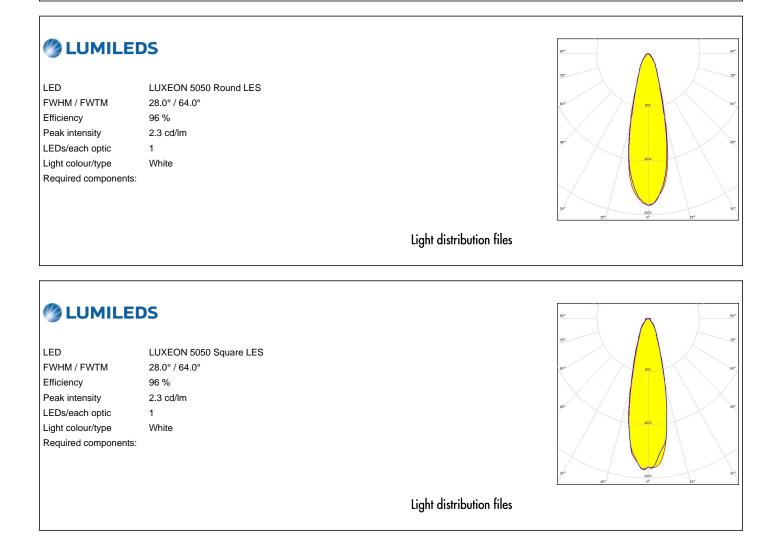
# UMILEDS

| LED                  | L |
|----------------------|---|
| FWHM / FWTM          | 2 |
| Efficiency           | ę |
| Peak intensity       | 2 |
| LEDs/each optic      |   |
| Light colour/type    | ١ |
| Required components: |   |

LUXEON 5050 HE 26.0° / 57.0° 95 % 2.7 cd/lm 1 White



#### Light distribution files



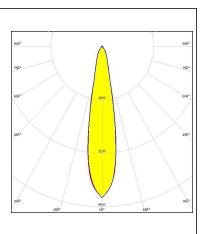


LOT

| Vour solutions<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour/type<br>Required components:               | RecLED 147x47mm 5800lm 7x0 5050 STRADA-IP-24 G2<br>33.0° / 74.0°<br>93 %<br>1.7 cd/lm<br>1<br>White |                          | 25° 0° 12° 0°<br>26° 0°<br>27° 0°<br>1200 0°<br>100 0°   |
|--|---|--------------------------|--|
|  |   | Light distribution files |  |
| ED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour/type<br>Required components:                                  | NFMW48xA<br>30.0° / 66.0°<br>96 %<br>2.1 cd/lm<br>1<br>White  |                          | 25° 0° 30°<br>6° 0°<br>5° 0°<br>6° 0°<br>5°<br>5°  |
|  |   | Light distribution files |  |
| OSRAM<br>Opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour/type<br>Required components: | Duris S8<br>33.0° / 74.0°<br>93 %<br>1.7 cd/lm<br>1<br>White  |                          | 91 <sup>3</sup><br>91 <sup>3</sup><br>91 <sup>4</sup><br>91 |
|  |   | Light distribution files |  |



# LED OSCONIQ P 3737 (2W version) FWHM / FWTM 20.0° / 44.0° Efficiency 96 % Peak intensity 4.5 cd/lm LEDs/each optic 1 Light colour/type White Required components:



#### Light distribution files

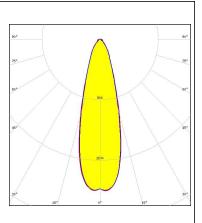
#### OSRAM Opto Semiconductore OSCONIQ P 3737 (3W version) I FD FWHM / FWTM 24.0° / 48.0° Efficiency 96 % Peak intensity 3.6 cd/lm LEDs/each optic 1 Light colour/type White Required components: Light distribution files SAMSUNG HiLOM RM24 ZP (LH502C) LED FWHM / FWTM 30.0° / 68.0° 95 % Efficiency Peak intensity 2 cd/lm LEDs/each optic 1 Light colour/type White Required components:

Light distribution files

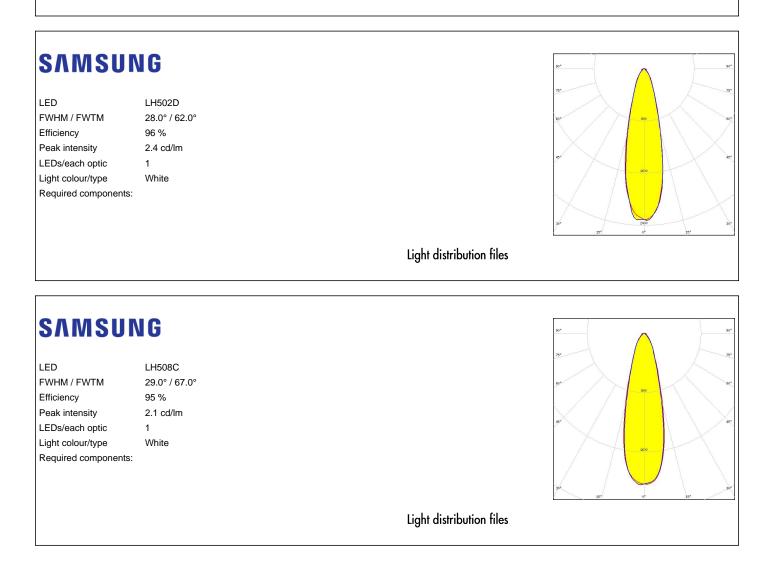


# SAMSUNG

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



Light distribution files





| SAMSU   | NG   |                          | 5)*                                      |
|---|--|--------------------------|--|
| LED   | LM301D   |                          | 73                                       |
| FWHM / FWTM   | 18.0° / 42.0°                                    |                          | 600 6                                    |
| Efficiency  | 95 %   |                          |  |
| Peak intensity  | 4.6 cd/lm  |                          |  |
| LEDs/each optic   | 1  |                          | 47 · · · · · · · · · · · · · · · · · · · |
| Light colour/type   | White  |                          |  |
| Required components   | :  |                          |  |
|   |  |                          |  |
|   |  |                          | 30° 4000 3                               |
|   |  |                          |  |
|   |  | Light distribution files |  |
| SEOUL SEMICONDUCTOR   |  | Light distribution tiles | 90 <sup>4</sup>                          |
| SEOUL SEMICONDUCTOR   | SEOUL DC 5050 6V                                 | Light distribution tiles | 99° 9<br>75° 400 2                       |
| SEOUL SEMICONDUCTOR   | SEOUL DC 5050 6V<br>31.0° / 70.0°                | Light distribution tiles | 295 - 2<br>400 - 2                       |
| seoul semiconductor<br>LED<br>FWHM / FWTM   |  | Light distribution tiles | 295 - 2<br>400 - 2                       |
| seoul semiconductor<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity   | 31.0° / 70.0°                                    | Light distribution tiles | 25°                                      |
| seoul semiconductor<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic                      | 31.0° / 70.0°<br>95 %<br>1.9 cd/lm<br>1          | Light distribution tiles | 255 - 2000 - 2<br>60 <sup>1</sup> - 0    |
| SEOUL SEMICONDUCTOR<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour/type | 31.0° / 70.0°<br>95 %<br>1.9 cd/lm<br>1<br>White | Light distribution tiles | 27<br>61<br>00                           |
| seoul semiconductor<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic                      | 31.0° / 70.0°<br>95 %<br>1.9 cd/lm<br>1<br>White | Light distribution tiles | 27<br>61<br>00                           |



#### **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.

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#### LEDiL Oy

Joensuunkatu 7 FI-24240 SALO Finland

#### LEDiL Inc. 228 West Page Street Suite D Sycamore IL 60178

USA

(Shenzhen) Co., Ltd. # 405 , Block B Casic Motor Building Shenzhen 518057 P.R.CHINA

#### Local sales and technical support www.ledil.com/ where\_to\_buy

Shipping locations Poznan, Poland Hong Kong, China

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