# IRIS-O

**~40° x 30° oval beam with sublens and holder optimized for CREE XM-L.**


## SPECIFICATION:

| | |
|---|---|
| Dimensions | Ø 38.0 mm |
| Height | 28.8 mm |
| Fastening | glue, pin, screw |
| ROHS compliant | yes |

## MATERIALS:

| Component | Type | Material | Colour | Finish |
|---|---|---|---|---|
| F12075_IRIS | Single lens | PMMA | clear | |
| C12034_IRIS-XM-HLD | Holder | PC | black | |
| C12733_IRIS-SUB-O | Sublens | PC | clear | |

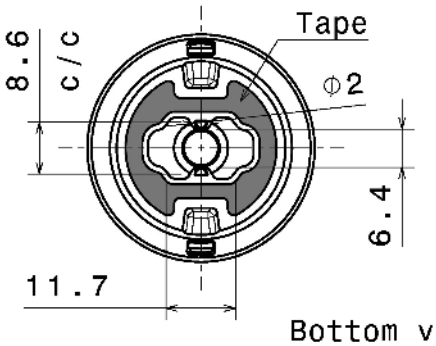
## ORDERING INFORMATION:

**Quantities for one set:**

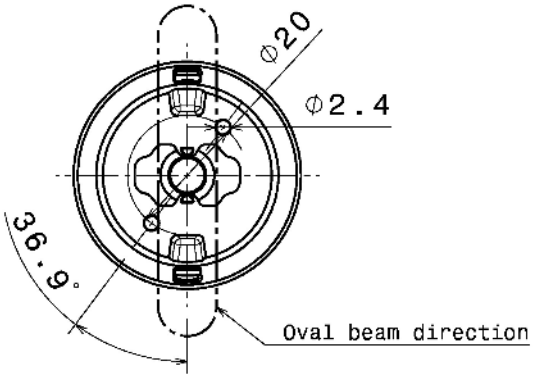
| | |
|---|---|
| Single lens | 1 |
| Holder | 1 |
| Sublens | 1 |

| Component | | Qty in box | MOQ | MPQ | Box weight (kg) |
|---|---|---|---|---|---|
| F12075_IRIS<br>» Box size: 480 x 280 x 300 mm | Single lens | 450 | 90 | 45 | 7.5 |
| C12034_IRIS-XM-HLD<br>» Box size: 480 x 280 x 300 mm | Holder | 1080 | 90 | 15 | 7.3 |
| C12733_IRIS-SUB-O<br>» Box size: 300 x 250 x 250 mm | Sublens | 2500 | 90 | 4 | 5.0 |

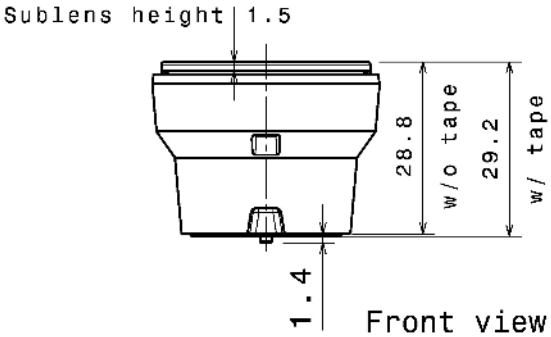
Isometric view



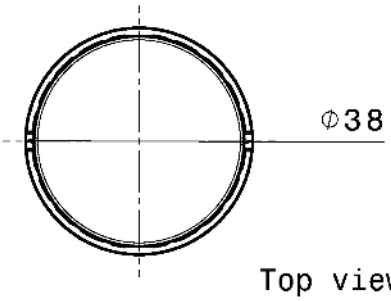

Bottom view




Bottom view
without tape




Front view




Top view

Materials

Lens: PMMA
Sublens: PC
Holder: PC
Tape: Acrylic foam



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Finland

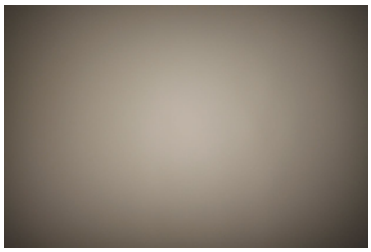
| | | | | |
|---|---|---|---|---|
| DRAWN BY: as | DATE: 17.9.2012 | DRAWING TITLE: Mechanical drawing IRIS-XM | | |
| CHECKED BY: sn | DATE: - | SIZE: A4 | PART NUMBER: | REV: 001 |
| DESIGNED BY: - | DATE: - | SCALE: 1:1 | WEIGHT: - | SHEET: 1/1 |

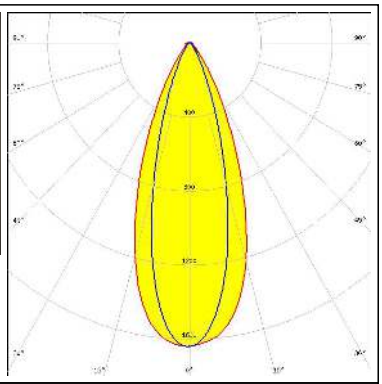
See also our general installation guide: www.ledil.com/installation_guide

## OPTICAL RESULTS (MEASURED):

CREE LED

| | |
|---|---|
| LED | XHP50 |
| FWHM / FWTM | 42.0 + 29.0° / 72.0 + 55.0° |
| Efficiency | 80 % |
| Peak intensity | 1.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



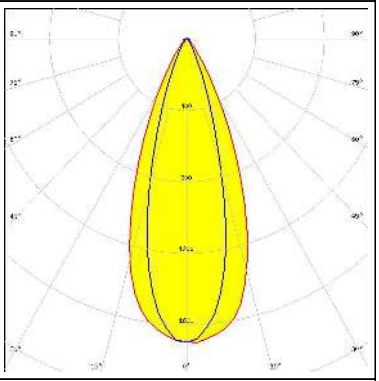


CREE LED

| | |
|---|---|
| LED | XM-L |
| FWHM / FWTM | 42.0 + 30.0° / 72.0 + 54.0° |
| Efficiency | 81 % |
| Peak intensity | 2.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

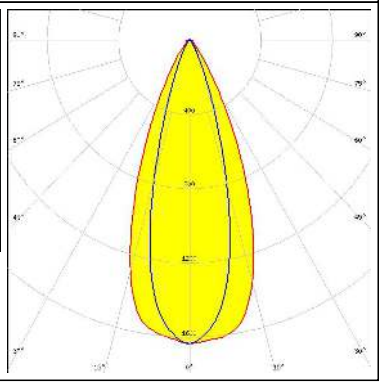
CREE LED

| | |
|---|---|
| LED | XM-L2 |
| FWHM / FWTM | 43.0 + 30.0° / 70.0 + 53.0° |
| Efficiency | 80 % |
| Peak intensity | 1.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



LUMILEDS

| | |
|---|---|
| LED | LUXEON V |
| FWHM / FWTM | 44.0 + 29.0° / 70.0 + 51.0° |
| Efficiency | 80 % |
| Peak intensity | 1.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

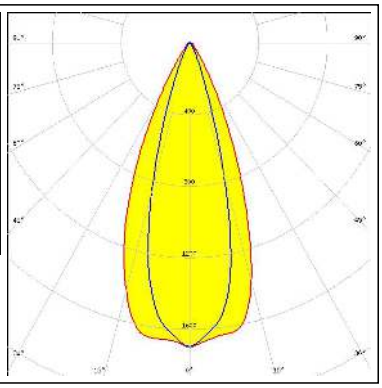


## OPTICAL RESULTS (MEASURED):

NICHIA

| | |
|---|---|
| LED | NVSW219F |
| FWHM / FWTM | 44.0 + 29.0° / 68.0 + 48.0° |
| Efficiency | 82 % |
| Peak intensity | 1.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

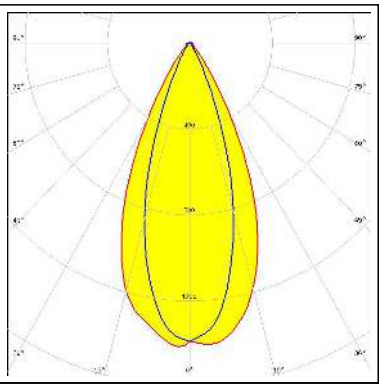
Required components:



## OPTICAL RESULTS (SIMULATED):

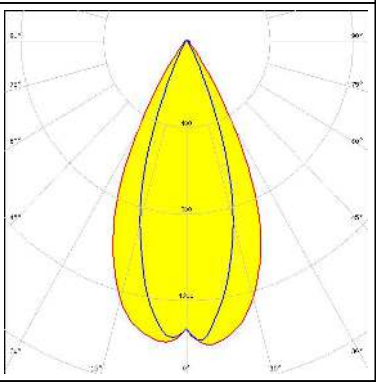
CREE LED

| | |
|---|---|
| LED | XHP35 HD |
| FWHM / FWTM | 49.0 + 34.0° / 75.0 + 57.0° |
| Efficiency | 82 % |
| Peak intensity | 1.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



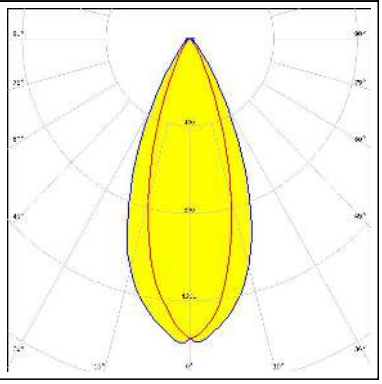
CREE LED

| | |
|---|---|
| LED | XHP35 HI |
| FWHM / FWTM | 52.0 + 36.0° / 74.0 + 54.0° |
| Efficiency | 84 % |
| Peak intensity | 1.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



CREE LED

| | |
|---|---|
| LED | XHP50.2 |
| FWHM / FWTM | 46.0 + 32.0° / 76.0 + 59.0° |
| Efficiency | 79 % |
| Peak intensity | 1.4 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:

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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