# HEIDI-M-NP

**~25° medium beam. Version without location pins.**




## SPECIFICATION:

| | |
|---|---|
| Dimensions | Ø 21.6 mm |
| Height | 11.6 mm |
| Fastening | tape |
| ROHS compliant | yes |

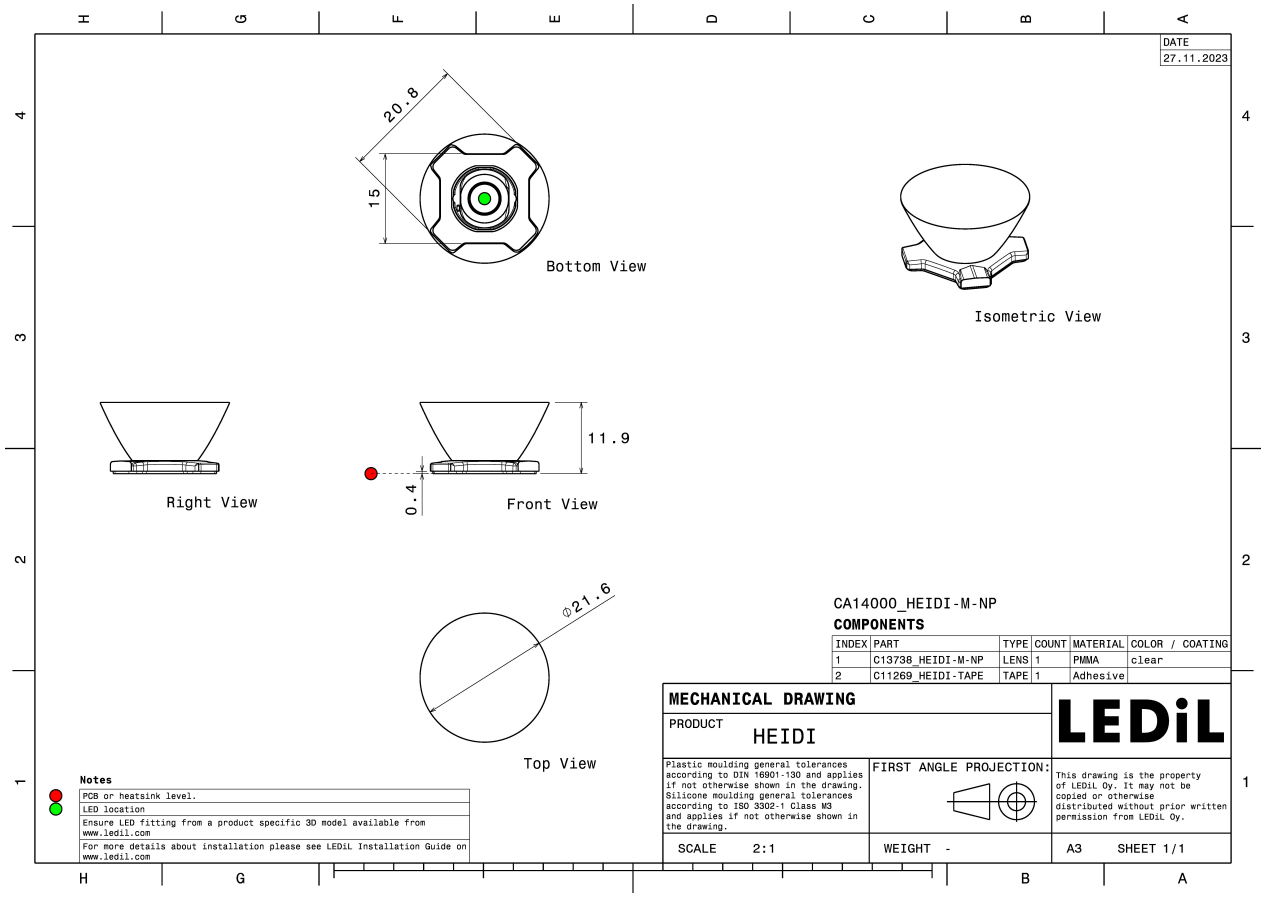
## MATERIALS:

| Component | Type | Material | Colour | Finish |
|---|---|---|---|---|
| HEIDI-M-NP | Single lens | PMMA | clear | |
| HEIDI-TAPE | Tape | Acrylic foam | black | |

## ORDERING INFORMATION:

| Component | | Qty in box | MOQ | MPQ | Box weight (kg) |
|---|---|---|---|---|---|
| CA14000_HEIDI-M-NP<br>» Box size: 480 x 280 x 300 mm | Single lens | 3264 | 204 | 204 | 10.8 |


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

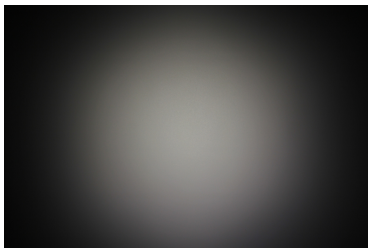

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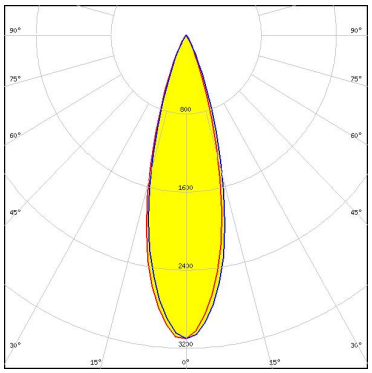
## OPTICAL RESULTS (MEASURED):

SAMSUNG

| | |
|---|---|
| LED | LH351B |
| FWHM / FWTM | 29.0° / 51.0° |
| Efficiency | 88 % |
| Peak intensity | 3.1 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:

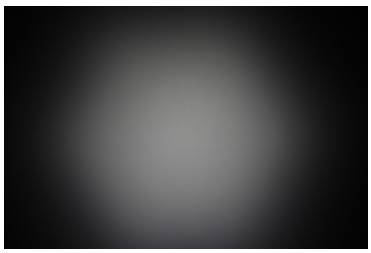


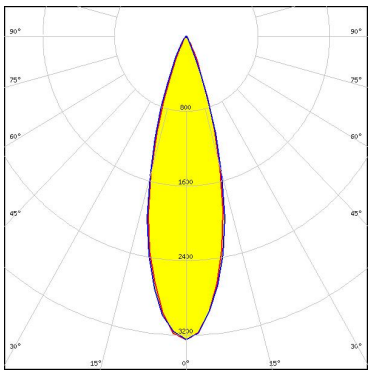


SAMSUNG

| | |
|---|---|
| LED | LH351Z |
| FWHM / FWTM | 30.0° / 50.0° |
| Efficiency | 89 % |
| Peak intensity | 3.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:






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## OPTICAL RESULTS (SIMULATED):

CREE LEDs

| | |
|---|---|
| LED | ML-E |
| FWHM / FWTM | 28.0° / 49.0° |
| Efficiency | 92 % |
| Peak intensity | 3.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

CREE LEDs

| | |
|---|---|
| LED | XB-D |
| FWHM / FWTM | 28.0° / 46.0° |
| Efficiency | 89 % |
| Peak intensity | 3.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

CREE LEDs

| | |
|---|---|
| LED | XP-E |
| FWHM / FWTM | 28.0° / 45.0° |
| Efficiency | 93 % |
| Peak intensity | 4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

CREE LEDs

| | |
|---|---|
| LED | XP-E2 |
| FWHM / FWTM | 29.0° / 46.0° |
| Efficiency | 93 % |
| Peak intensity | 3.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |


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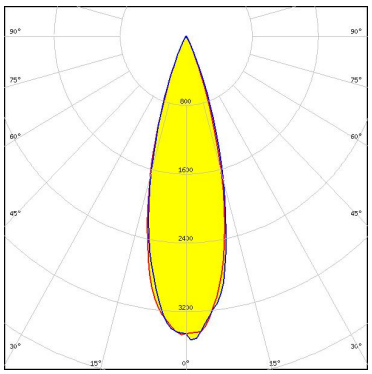
## OPTICAL RESULTS (SIMULATED):

CREE LEDs

| | |
|---|---|
| LED | XP-G |
| FWHM / FWTM | 28.0° / 48.0° |
| Efficiency | 92 % |
| Peak intensity | 3.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

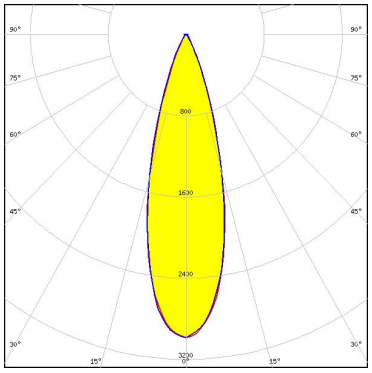
CREE LEDs

| | |
|---|---|
| LED | XP-G2 |
| FWHM / FWTM | 29.0° / 49.0° |
| Efficiency | 92 % |
| Peak intensity | 3.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



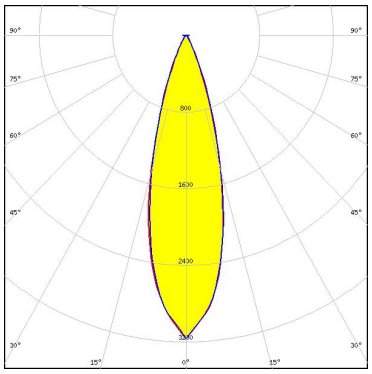
CREE LEDs

| | |
|---|---|
| LED | XP-G2 HE |
| FWHM / FWTM | 30.0° / 51.0° |
| Efficiency | 92 % |
| Peak intensity | 3 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



CREE LEDs

| | |
|---|---|
| LED | XP-G3 |
| FWHM / FWTM | 28.0° / 51.0° |
| Efficiency | 94 % |
| Peak intensity | 3.2 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

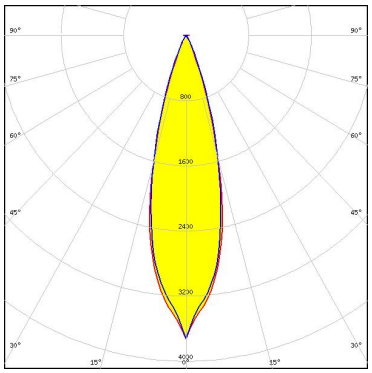



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## OPTICAL RESULTS (SIMULATED):

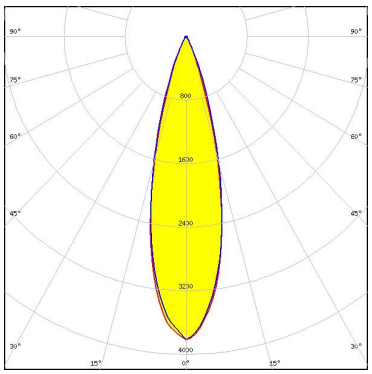
CREE LEDs

| | |
|---|---|
| LED | XT-E |
| FWHM / FWTM | 27.0° / 47.0° |
| Efficiency | 93 % |
| Peak intensity | 3.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



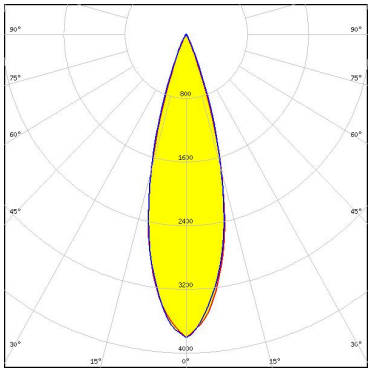
LUMILEDS

| | |
|---|---|
| LED | LUXEON HL2Z |
| FWHM / FWTM | 28.0° / 48.0° |
| Efficiency | 95 % |
| Peak intensity | 3.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



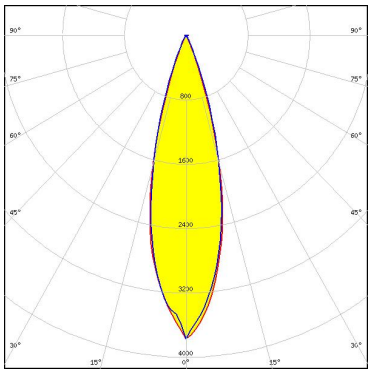
LUMILEDS

| | |
|---|---|
| LED | LUXEON SunPlus 20 Line (120 deg) |
| FWHM / FWTM | 29.0° / 47.0° |
| Efficiency | 96 % |
| Peak intensity | 3.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



LUMILEDS

| | |
|---|---|
| LED | LUXEON SunPlus 20 Line (150 deg) |
| FWHM / FWTM | 28.0° / 45.0° |
| Efficiency | 91 % |
| Peak intensity | 3.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

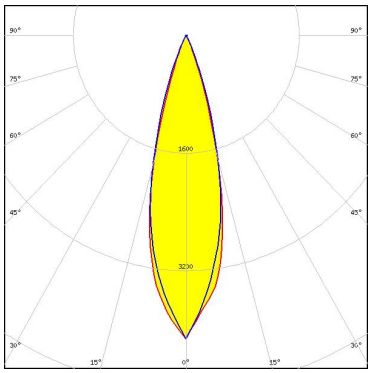



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## OPTICAL RESULTS (SIMULATED):

LUMILEDS

| | |
|---|---|
| LED | LUXEON Z ES |
| FWHM / FWTM | 27.0° / 45.0° |
| Efficiency | 94 % |
| Peak intensity | 4.1 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



NICHIA

| | |
|---|---|
| LED | NF2x757A |
| FWHM / FWTM | 27.0° / 47.0° |
| Efficiency | 93 % |
| Peak intensity | 3.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

NICHIA

| | |
|---|---|
| LED | NSSW157T |
| FWHM / FWTM | 28.0° / 43.0° |
| Efficiency | 93 % |
| Peak intensity | 4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | OSLON Square PC |
| FWHM / FWTM | 29.0° / 46.0° |
| Efficiency | 92 % |
| Peak intensity | 3.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |


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## OPTICAL RESULTS (SIMULATED):

OSRAM Opto Semiconductors

| | |
|---|---|
| LED | OSLON SSL 150 |
| FWHM / FWTM | 29.0° / 44.0° |
| Efficiency | 93 % |
| Peak intensity | 4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

OSRAM Opto Semiconductors

| | |
|---|---|
| LED | OSLON SSL 80 |
| FWHM / FWTM | 29.0° / 46.0° |
| Efficiency | 92 % |
| Peak intensity | 3.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

SEOUL SEMICONDUCTOR

| | |
|---|---|
| LED | Z5P |
| FWHM / FWTM | 28.0° / 46.0° |
| Efficiency | 92 % |
| Peak intensity | 3.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |


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## 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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