

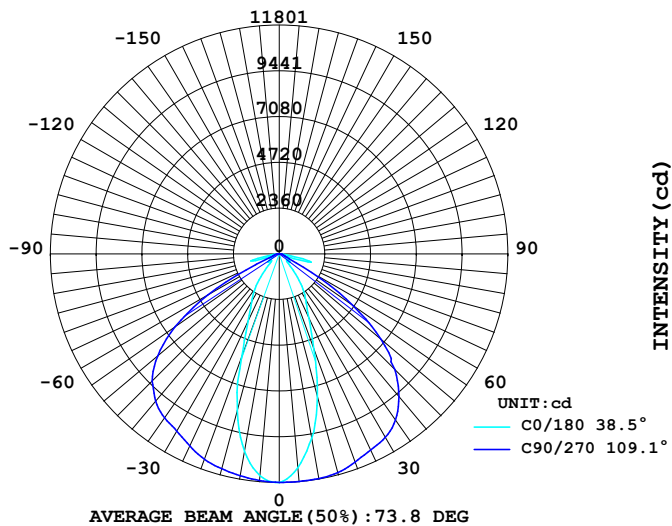
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

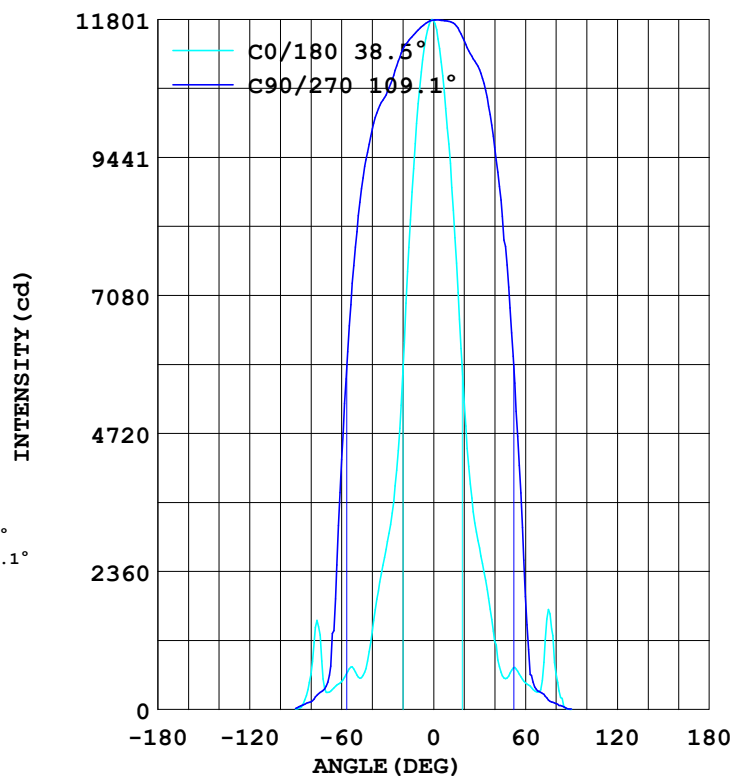
| | | |
|--------------------------------------|--------------------------|-------------|
| MANUFACTURER: ILUMEN GMBH | Address: | |
| NAME: Matilda | TYPE: IL-HB23-N10040-311 | WEIGHT: |
| SPECIFICATION: 2835LED、4000K、30×110° | DIMENSION: | SERIAL No.: |

| | | | | | |
|------------------|---------|--------------------|---------|-------------------|-------|
| DATA OF LAMP | | Imax(cd) | 11825 | S/MH (C0/180) | 0.65 |
| MODEL | | EFFICIENCY (%) | 100.0 | S/MH (C90/270) | 1.35 |
| NOMINAL POWER(W) | 100 | TOTAL FLUX(lm) | 16008 | Voltage(V) | 230.5 |
| RATED VOLTAGE(V) | 230 | EFFICIENCY (lm/W) | 159.6 | Current(A) | 0.425 |
| NOMINAL FLUX(lm) | 16008.0 | η up (%) | 0.0 | Power(W) | 100.3 |
| LAMPS QUANTITY | 1 | η down (%) | 100.0 | Power Factor (PF) | 0.977 |
| TEST VOLTAGE(V) | 230.5 | Effective Flux(lm) | 16008.0 | EEL | 0.094 |

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:
 Temperature: 25.3 DEG
 Operators:
 Test Date: 2024.11.25

Test Set: 5.0 deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 10.000 m
 Remarks:

Color Temperature Data List

Report number:

| | | |
|-------------------------------------|-------------------------|-------------|
| MANUFACTURER: ILUMEN GMBH | Address: | |
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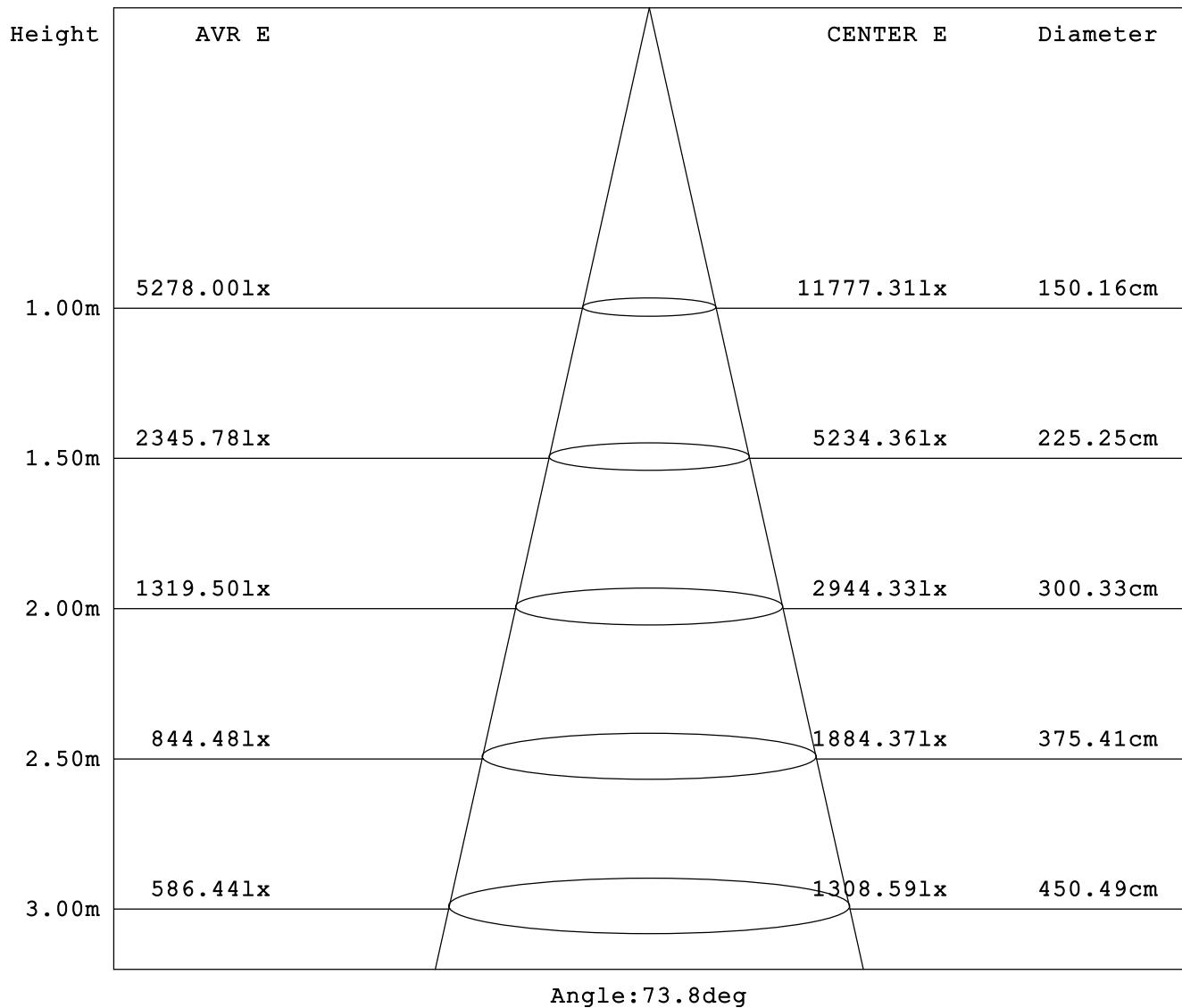
Test System:
Temperature:25.3DEG
Operators:
Test Date:2024.11.25

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks:

AVERAGE AND CENTER E Figure

Report number:

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| NAME: Matilda | TYPE: IL-HB23-N10040-311 | WEIGHT: |
| SPECIFICATION: 2835LED、4000K、30×110° | DIMENSION: | SERIAL No.: |



Test System:
Temperature: 25.3DEG
Operators:
Test Date: 2024.11.25

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity: 65.0%
Test Distance: 10.000 m
Remarks:

ZONAL FLUX DIAGRAM

Report number:

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|--------------------------------------|--------------------------|-------------|
| MANUFACTURER: ILUMEN GMBH | Address: | |
| NAME: Matilda | TYPE: IL-HB23-N10040-311 | WEIGHT: |
| SPECIFICATION: 2835LED、4000K、30×110° | DIMENSION: | SERIAL No.: |

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Zone | total |
|-------|--------------------------|-------|-------|-------|-------|-------|-------|-------|---------|---------|-------|
| 5.0 | 1148 | 1173 | 1173 | 1137 | 1107 | 1135 | 1178 | 1157 | 0- 5 | 278.4 | 278.4 |
| 10.0 | 1036 | 1126 | 1162 | 1042 | 967.1 | 1055 | 1177 | 1088 | 5- 10 | 797.9 | 1076 |
| 15.0 | 837.2 | 1045 | 1148 | 915.5 | 763.1 | 955.8 | 1169 | 972.7 | 10- 15 | 1220 | 2297 |
| 20.0 | 573.3 | 956.6 | 1128 | 755.9 | 524.4 | 835.1 | 1143 | 819.9 | 15- 20 | 1496 | 3792 |
| 25.0 | 382.1 | 815.7 | 1093 | 582.5 | 361.6 | 714.1 | 1117 | 625.5 | 20- 25 | 1621 | 5413 |
| 30.0 | 286.8 | 666.2 | 1057 | 429.6 | 276.3 | 585.7 | 1094 | 454.8 | 25- 30 | 1658 | 7071 |
| 35.0 | 218.3 | 529.5 | 1033 | 319.8 | 205.0 | 469.5 | 1046 | 337.3 | 30- 35 | 1655 | 8726 |
| 40.0 | 134.1 | 409.8 | 992.3 | 246.6 | 116.5 | 368.8 | 961.2 | 253.1 | 35- 40 | 1593 | 10319 |
| 45.0 | 63.97 | 313.0 | 928.7 | 187.3 | 57.89 | 277.8 | 843.0 | 187.8 | 40- 45 | 1463 | 11782 |
| 50.0 | 58.75 | 232.0 | 816.8 | 130.0 | 62.29 | 193.3 | 686.5 | 124.9 | 45- 50 | 1304 | 13086 |
| 55.0 | 69.59 | 153.8 | 655.9 | 71.95 | 65.43 | 117.3 | 467.1 | 69.64 | 50- 55 | 1090 | 14176 |
| 60.0 | 47.68 | 85.52 | 427.4 | 45.06 | 45.55 | 59.03 | 192.7 | 39.52 | 55- 60 | 755.0 | 14931 |
| 65.0 | 37.00 | 41.35 | 134.9 | 33.48 | 34.41 | 32.87 | 46.85 | 29.76 | 60- 65 | 386.6 | 15317 |
| 70.0 | 29.46 | 25.52 | 40.22 | 26.97 | 33.59 | 22.38 | 29.37 | 22.96 | 65- 70 | 185.6 | 15503 |
| 75.0 | 141.5 | 16.42 | 27.20 | 17.74 | 171.1 | 13.98 | 16.28 | 14.10 | 70- 75 | 205.2 | 15708 |
| 80.0 | 59.33 | 10.63 | 13.06 | 10.32 | 60.39 | 7.133 | 10.13 | 8.421 | 75- 80 | 215.9 | 15924 |
| 85.0 | 9.620 | 4.211 | 7.676 | 4.732 | 5.413 | 3.010 | 4.498 | 2.279 | 80- 85 | 70.97 | 15995 |
| 90.0 | 0.877 | 0.522 | 1.959 | 0.769 | 0.331 | 0.582 | 0.763 | 0.270 | 85- 90 | 12.61 | 16008 |
| 95.0 | | | | | | | | | 90- 95 | | |
| 100.0 | | | | | | | | | 95-100 | | |
| 105.0 | | | | | | | | | 100-105 | | |
| 110.0 | | | | | | | | | 105-110 | | |
| 115.0 | | | | | | | | | 110-115 | | |
| 120.0 | | | | | | | | | 115-120 | | |
| 125.0 | | | | | | | | | 120-125 | | |
| 130.0 | | | | | | | | | 125-130 | | |
| 135.0 | | | | | | | | | 130-135 | | |
| 140.0 | | | | | | | | | 135-140 | | |
| 145.0 | | | | | | | | | 140-145 | | |
| 150.0 | | | | | | | | | 145-150 | | |
| 155.0 | | | | | | | | | 150-155 | | |
| 160.0 | | | | | | | | | 155-160 | | |
| 165.0 | | | | | | | | | 160-165 | | |
| 170.0 | | | | | | | | | 165-170 | | |
| 175.0 | | | | | | | | | 170-175 | | |
| 180.0 | | | | | | | | | 175-180 | | |
| DEG | LUMINOUS INTENSITY:×10cd | | | | | | | | | UNIT:lm | |

Test System:
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Operators:
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Humidity:65.0%
Test Distance:10.000 m
Remarks:

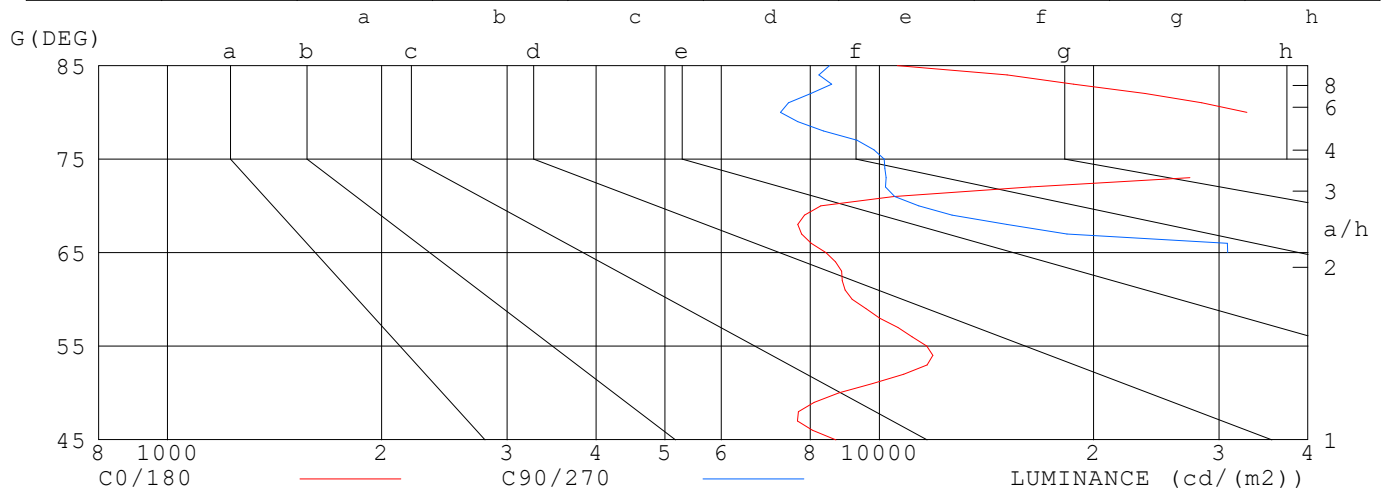
LUMINANCE LIMITATION CURVES

Report number:

| | | |
|--------------------------------------|--------------------------|-------------|
| MANUFACTURER: ILUMEN GMBH | Address: | |
| NAME: Matilda | TYPE: IL-HB23-N10040-311 | WEIGHT: |
| SPECIFICATION: 2835LED、4000K、30×110° | DIMENSION: | SERIAL No.: |

LUMINANCE LIMITATION CURVES

| GLARE | CLASS | ILLUMINANCE (lx) | | | | | | | |
|-------|-------|------------------|------|------|-------|-------|-------|-------|-------|
| 1.15 | A | 2000 | 1000 | 500 | <=300 | | | | |
| 1.50 | B | | 2000 | 1000 | 500 | <=300 | | | |
| 1.85 | C | | | 2000 | 1000 | 500 | <=300 | | |
| 2.20 | D | | | | 2000 | 1000 | 500 | <=300 | |
| 2.55 | E | | | | | 2000 | 1000 | 500 | <=300 |



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G (DEG) | C0/180 | C90/270 |
| 85 | 10605 | 8509 |
| 80 | 32827 | 7266 |
| 75 | 52545 | 10156 |
| 70 | 8277 | 11363 |
| 65 | 8413 | 30854 |
| 60 | 9163 | 82580 |
| 55 | 11657 | 110483 |
| 50 | 8782 | 122765 |
| 45 | 8692 | 126887 |

Test System:
 Temperature: 25.3 DEG
 Operators:
 Test Date: 2024.11.25

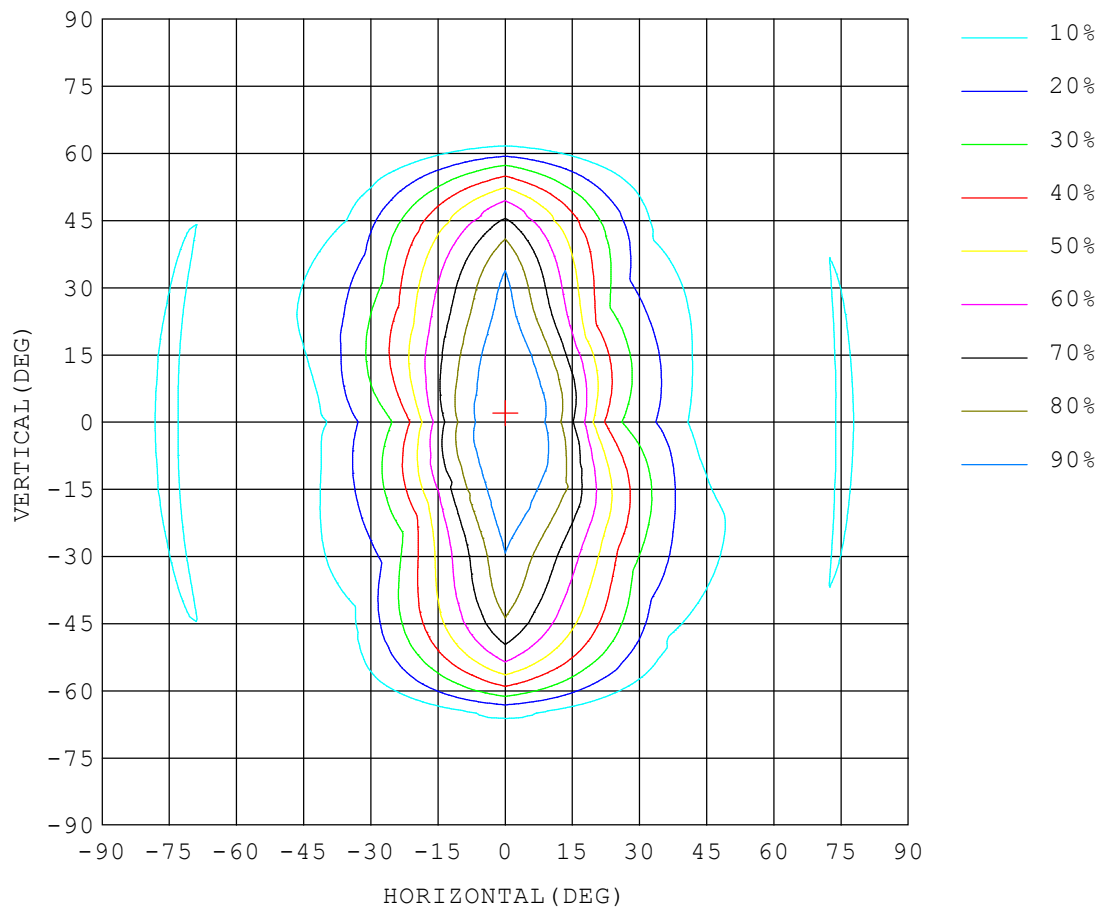
Test Set: 5.0 deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 10.000 m
 Remarks:

ISOCANDELA DIAGRAM

Report number:

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| MANUFACTURER: ILUMEN GMBH | Address: | |
| NAME: Matilda | TYPE: IL-HB23-N10040-311 | WEIGHT: |
| SPECIFICATION: 2835LED、4000K、30×110° | DIMENSION: | SERIAL No.: |

UNIT: cd



Test System:
Temperature: 25.3 DEG
Operators:
Test Date: 2024.11.25

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