

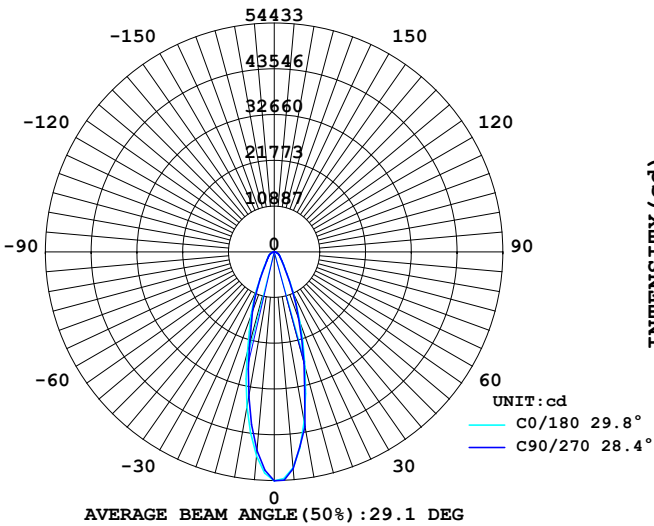
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

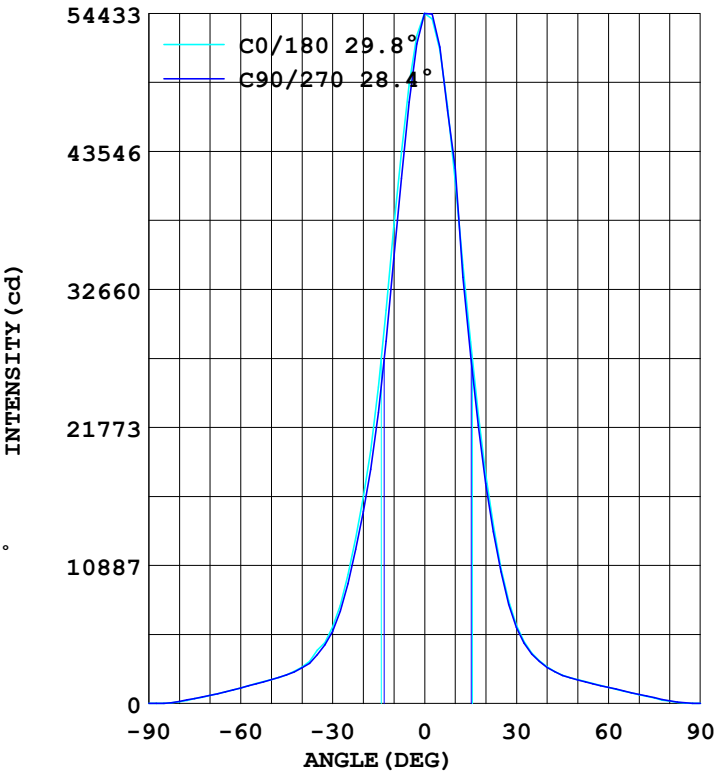
| | | |
|------------------------------------|-------------------------|-------------|
| MANUFACTURER: ILUMEN GMBH | Address: | |
| NAME: Klose | TYPE: IL-FL19-N15040-30 | WEIGHT: |
| SPECIFICATION: 2835LED、4000K、30deg | DIMENSION: | SERIAL No.: |

| | | | | | |
|-------------------|---------|---------------------|---------|-------------------|-------|
| DATA OF LAMP | | Imax (cd) | 54573 | S/MH (C0/180) | 0.47 |
| MODEL | | EFFICIENCY (%) | 100.0 | S/MH (C90/270) | 0.44 |
| NOMINAL POWER (W) | 150 | TOTAL FLUX (lm) | 24062 | Voltage (V) | 229.6 |
| RATED VOLTAGE (V) | 230 | EFFICIENCY (lm/W) | 159.9 | Current (A) | 0.673 |
| NOMINAL FLUX (lm) | 24062.5 | η up (%) | 0.0 | Power (W) | 150.5 |
| LAMPS QUANTITY | 1 | η down (%) | 100.0 | Power Factor (PF) | 0.974 |
| TEST VOLTAGE (V) | 229.6 | Effective Flux (lm) | 24062.5 | EEI | 0.094 |

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:
Temperature: 25.3 DEG
Operators:
Test Date: 2024.11.19

Test Set: 6.0 deg/s C-Gamma (TYPE C)
Humidity: 65.0%
Test Distance: 10.000 m
Remarks:

Color Temperature Data List

Report number:

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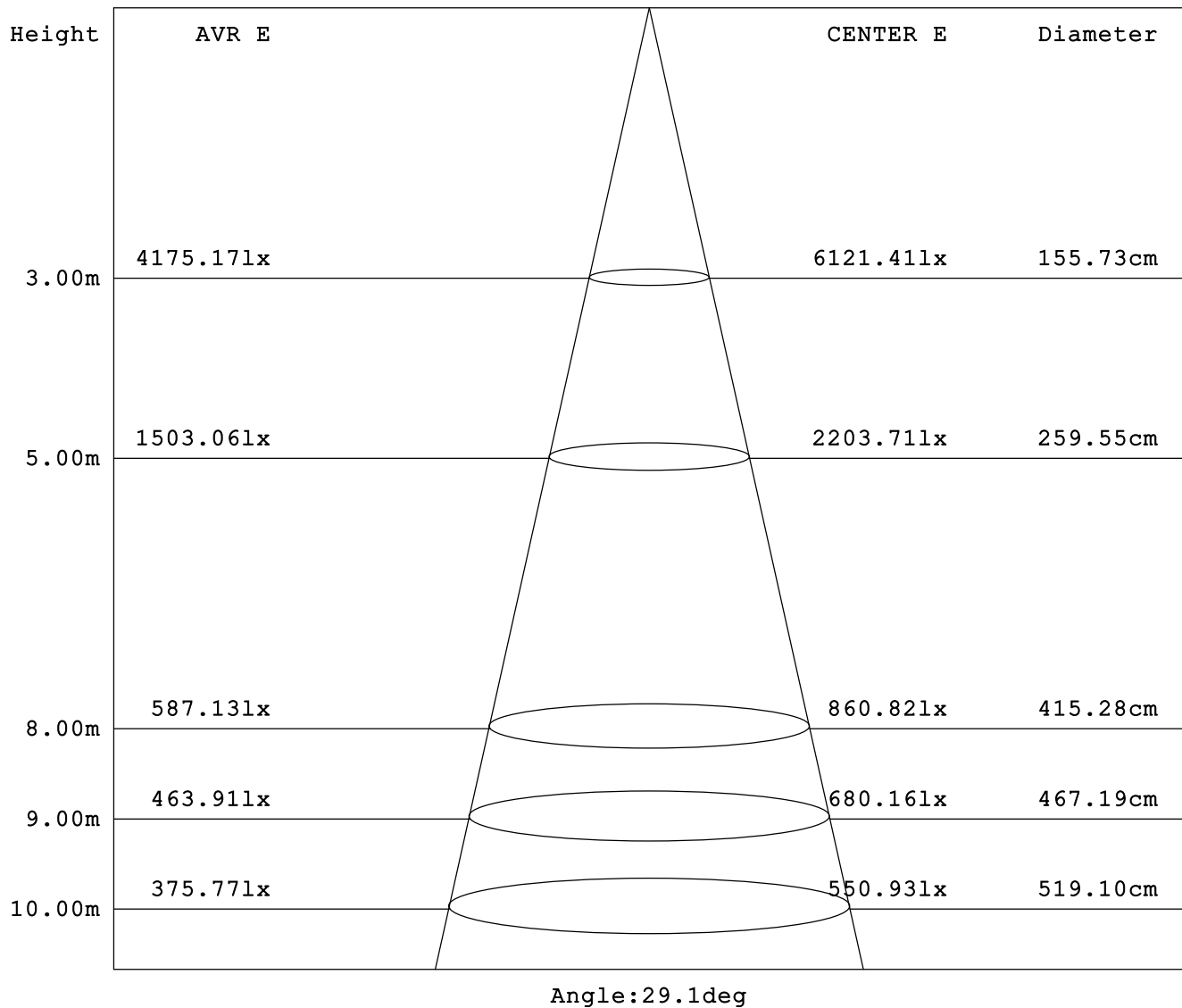
Test System:
Temperature: 25.3DEG
Operators:
Test Date: 2024.11.19

Test Set: 6.0deg/s C-Gamma (TYPE C)
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Remarks:

AVERAGE AND CENTER E Figure

Report number:

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Test System:
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Operators:
Test Date: 2024.11.19

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Test Distance: 10.000 m
Remarks:

ZONAL FLUX DIAGRAM

Report number:

| | | |
|------------------------------------|-------------------------|-------------|
| MANUFACTURER: ILUMEN GMBH | Address: | |
| NAME: Klose | TYPE: IL-FL19-N15040-30 | WEIGHT: |
| SPECIFICATION: 2835LED、4000K、30deg | DIMENSION: | SERIAL No.: |

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Zone | total |
|-------|--------------------------|-------|-------|-------|-------|-------|-------|-------|---------|---------|-------|
| 5.0 | 4881 | 4765 | 4743 | 4911 | 5154 | 5228 | 5177 | 5050 | 0- 5 | 1247 | 1247 |
| 10.0 | 3762 | 3584 | 3507 | 3795 | 4118 | 4164 | 4222 | 3891 | 5- 10 | 3152 | 4399 |
| 15.0 | 2497 | 2356 | 2293 | 2543 | 2853 | 2882 | 2748 | 2630 | 10- 15 | 3766 | 8165 |
| 20.0 | 1630 | 1556 | 1514 | 1672 | 1809 | 1830 | 1735 | 1681 | 15- 20 | 3454 | 11620 |
| 25.0 | 1015 | 1041 | 945.4 | 1078 | 1065 | 1161 | 1040 | 1100 | 20- 25 | 2838 | 14457 |
| 30.0 | 605.4 | 663.7 | 569.2 | 649.8 | 618.1 | 692.7 | 598.4 | 684.1 | 25- 30 | 2130 | 16587 |
| 35.0 | 421.2 | 432.6 | 383.9 | 427.1 | 398.6 | 431.6 | 388.9 | 434.3 | 30- 35 | 1535 | 18122 |
| 40.0 | 286.5 | 308.7 | 281.0 | 299.9 | 288.4 | 306.3 | 285.1 | 309.9 | 35- 40 | 1179 | 19301 |
| 45.0 | 226.8 | 243.9 | 225.1 | 238.5 | 223.5 | 240.0 | 222.1 | 242.8 | 40- 45 | 982.2 | 20283 |
| 50.0 | 188.9 | 197.8 | 187.2 | 196.4 | 187.8 | 200.0 | 184.8 | 201.1 | 45- 50 | 866.3 | 21150 |
| 55.0 | 156.9 | 160.3 | 155.3 | 161.7 | 157.5 | 167.0 | 155.1 | 166.1 | 50- 55 | 773.3 | 21923 |
| 60.0 | 123.3 | 124.7 | 123.5 | 127.7 | 127.2 | 136.1 | 128.0 | 133.7 | 55- 60 | 669.2 | 22592 |
| 65.0 | 92.61 | 91.63 | 92.58 | 96.01 | 97.85 | 105.0 | 99.74 | 100.9 | 60- 65 | 549.5 | 23142 |
| 70.0 | 63.75 | 61.08 | 64.28 | 65.71 | 70.13 | 74.89 | 71.78 | 70.09 | 65- 70 | 416.6 | 23559 |
| 75.0 | 38.03 | 35.29 | 39.73 | 40.06 | 43.84 | 47.13 | 45.52 | 44.27 | 70- 75 | 284.4 | 23843 |
| 80.0 | 13.76 | 13.38 | 16.83 | 17.20 | 18.92 | 23.53 | 21.22 | 18.85 | 75- 80 | 156.0 | 23999 |
| 85.0 | 1.471 | 1.811 | 1.788 | 3.135 | 3.705 | 6.652 | 5.329 | 4.276 | 80- 85 | 54.64 | 24054 |
| 90.0 | 0.418 | 0.439 | 0.590 | 0.445 | 0.599 | 0.631 | 0.369 | 0.445 | 85- 90 | 8.855 | 24062 |
| 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 | |

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Humidity:65.0%
Test Distance:10.000 m
Remarks:

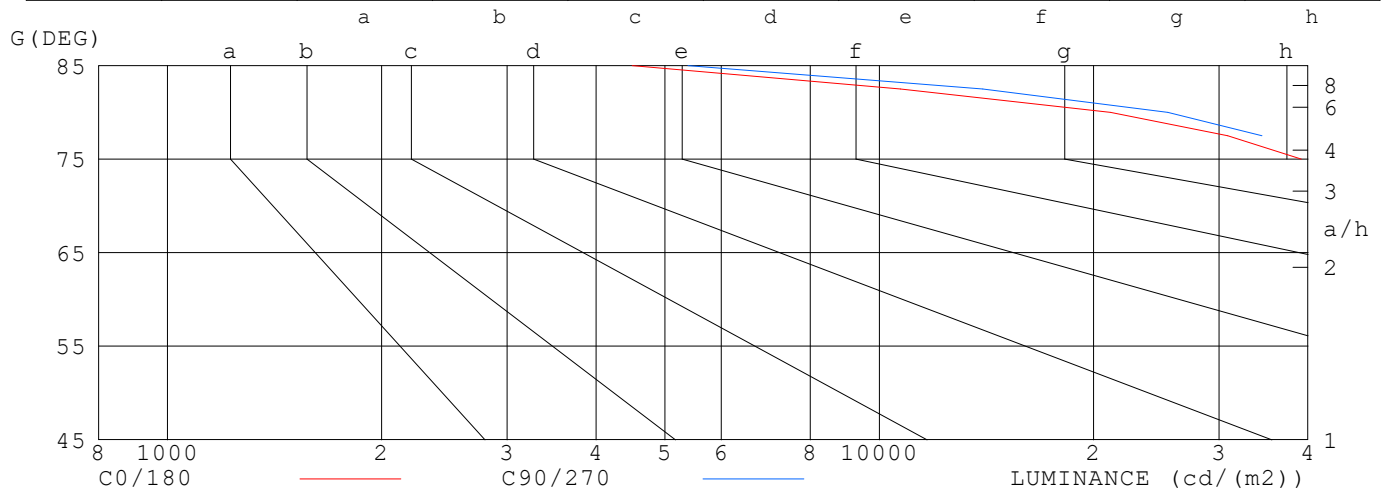
LUMINANCE LIMITATION CURVES

Report number:

| | | |
|------------------------------------|-------------------------|-------------|
| MANUFACTURER: ILUMEN GMBH | Address: | |
| NAME: Klose | TYPE: IL-FL19-N15040-30 | WEIGHT: |
| SPECIFICATION: 2835LED、4000K、30deg | 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 | 4496 | 5384 |
| 80 | 21119 | 25437 |
| 75 | 39142 | 40283 |
| 70 | 49650 | 49311 |
| 65 | 58372 | 57479 |
| 60 | 65700 | 64849 |
| 55 | 72868 | 71047 |
| 50 | 78314 | 76418 |
| 45 | 85456 | 83534 |

Test System:
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 Operators:
 Test Date: 2024.11.19

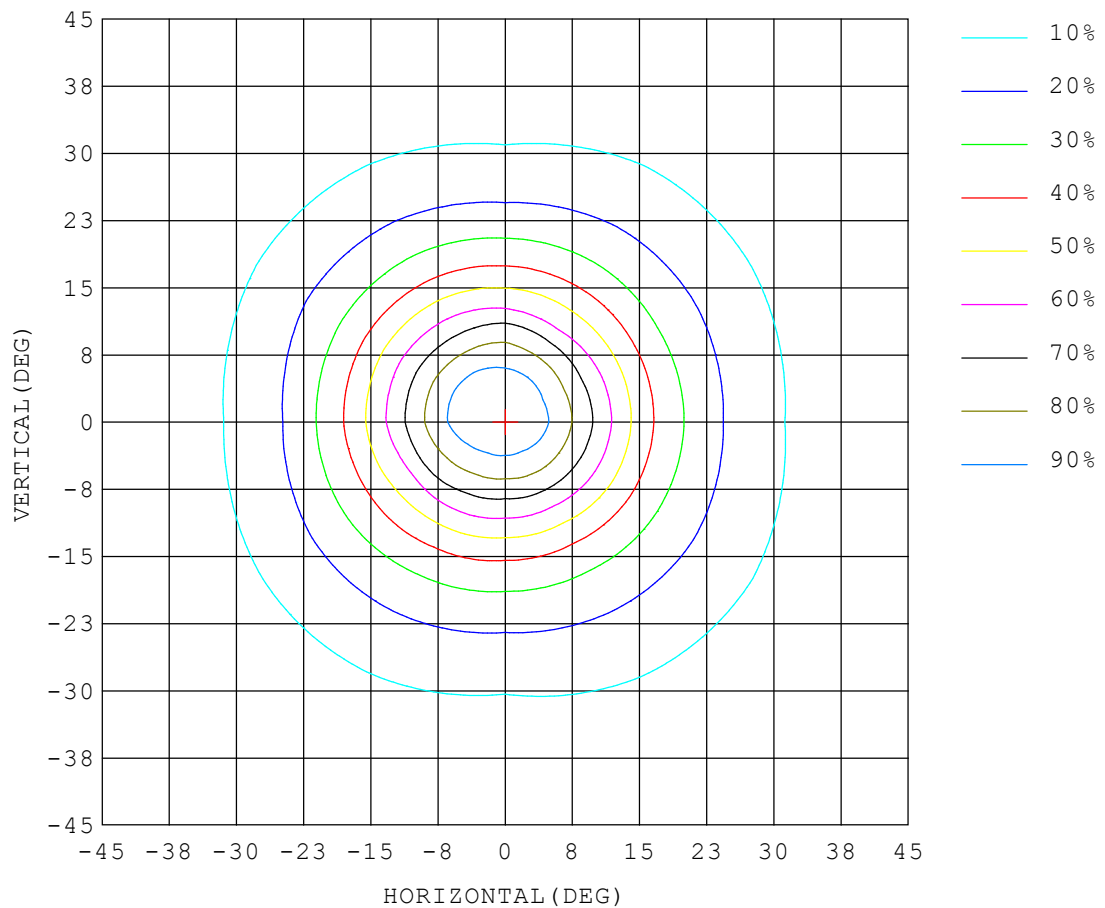
Test Set: 6.0 deg/s C-Gamma (TYPE C)
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 Remarks:

ISOCANDELA DIAGRAM

Report number:

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UNIT: cd



Test System:
Temperature: 25.3 DEG
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