

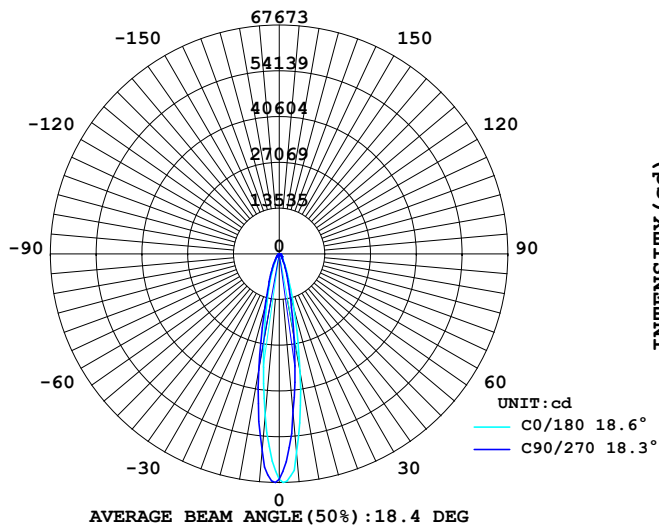
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

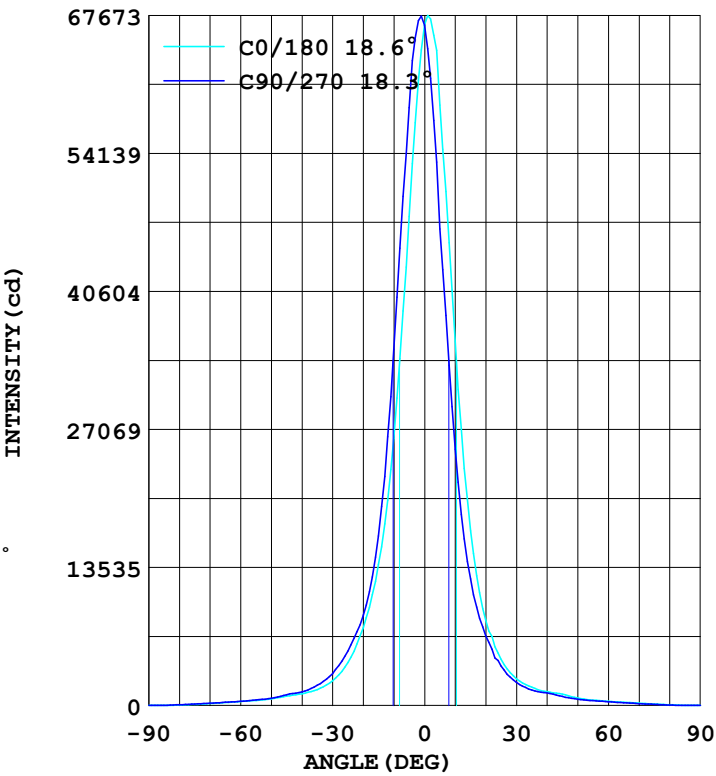
| | | |
|------------------------------------|-------------------------|-------------|
| MANUFACTURER: ILUMEN GMBH | Address: | |
| NAME: Klose | TYPE: IL-FL19-N10040-15 | WEIGHT: |
| SPECIFICATION: 2835LED、4000K、15DEG | DIMENSION: | SERIAL No.: |

| | | | | | |
|-------------------|---------|--------------------|---------|-------------------|-------|
| DATA OF LAMP | | Imax(cd) | 68317 | S/MH (C0/180) | 0.28 |
| MODEL | | EFFICIENCY (%) | 100.0 | S/MH (C90/270) | 0.36 |
| NOMINAL POWER(W) | 100 | TOTAL FLUX(lm) | 13579 | Voltage(V) | 230.3 |
| RATED VOLTAGE (V) | 230 | EFFICIENCY (lm/W) | 134.7 | Current(A) | 0.443 |
| NOMINAL FLUX(lm) | 13579.0 | η up (%) | 0.0 | Power(W) | 100.8 |
| LAMPS QUANTITY | 1 | η down (%) | 100.0 | Power Factor (PF) | 0.987 |
| TEST VOLTAGE (V) | 230.4 | Effective Flux(lm) | 13579.0 | EEI | 0.111 |

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



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

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

Color Temperature Data List

Report number:

| | | |
|------------------------------------|-------------------------|-------------|
| MANUFACTURER: ILUMEN GMBH | Address: | |
| NAME: Klose | TYPE: IL-FL19-N10040-15 | WEIGHT: |
| SPECIFICATION: 2835LED、4000K、15DEG | DIMENSION: | SERIAL No.: |

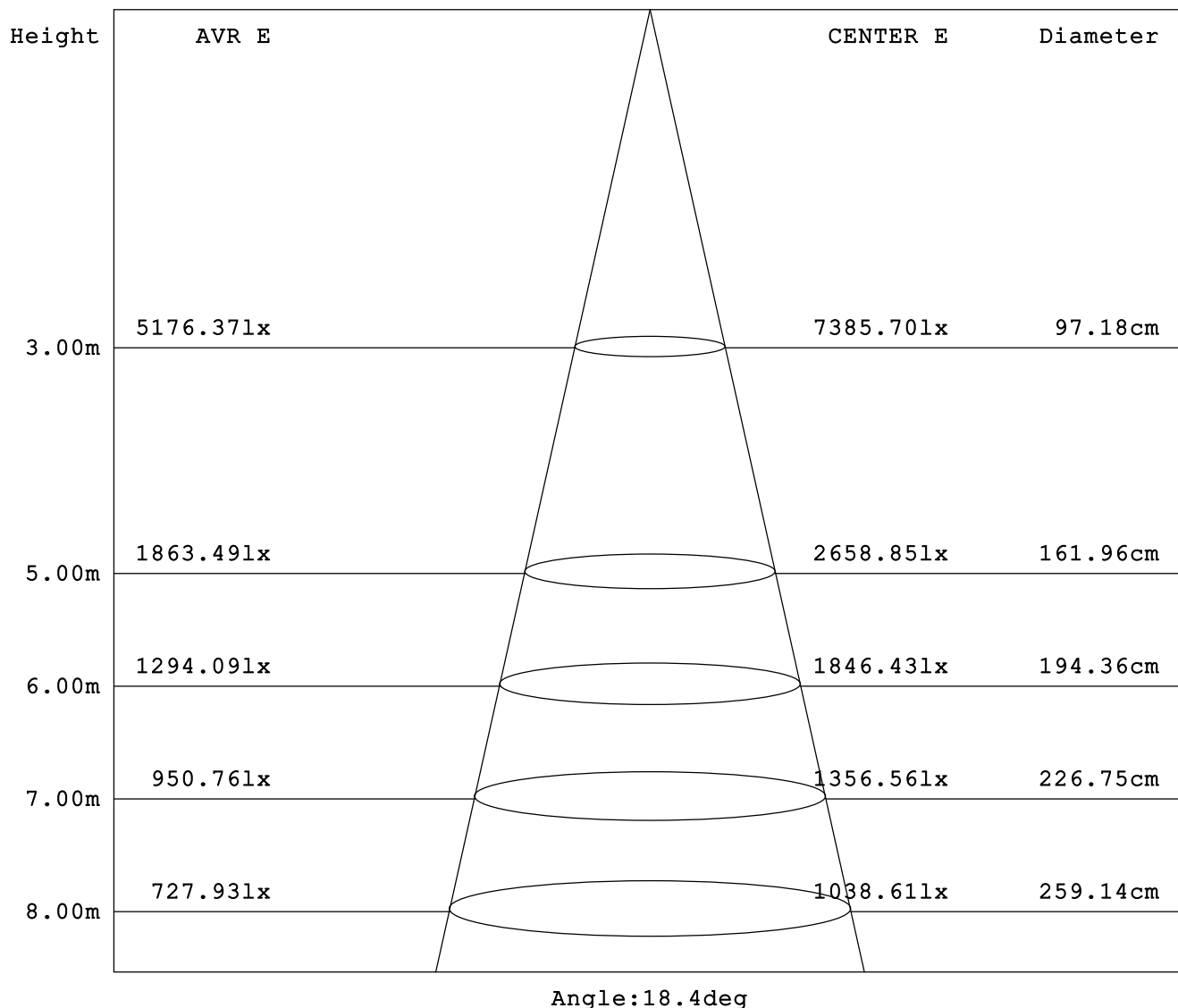
Test System:
Temperature: 25.3DEG
Operators:
Test Date: 2024.11.19

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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| MANUFACTURER: ILUMEN GMBH | Address: | |
| NAME: Klose | TYPE: IL-FL19-N10040-15 | WEIGHT: |
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Test System:
Temperature: 25.3DEG
Operators:
Test Date: 2024.11.19

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

ZONAL FLUX DIAGRAM

Report number:

| | | |
|-----------------------------------|------------------------|-------------|
| MANUFACTURER: ILUMEN GMBH | Address: | |
| NAME: Klose | TYPE:IL-FL19-N10040-15 | WEIGHT: |
| SPECIFICATION:2835LED、4000K、15DEG | DIMENSION: | SERIAL No.: |

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Zone | total |
|-------|--------------------------|-------|-------|-------|-------|-------|-------|-------|---------|---------|-------|
| 5.0 | 4795 | 4991 | 5860 | 6085 | 5886 | 5562 | 4673 | 4707 | 0- 5 | 1424 | 1424 |
| 10.0 | 2620 | 2752 | 3493 | 3711 | 3569 | 3186 | 2511 | 2521 | 5- 10 | 2883 | 4308 |
| 15.0 | 1383 | 1412 | 1661 | 1811 | 1713 | 1518 | 1240 | 1291 | 10- 15 | 2534 | 6842 |
| 20.0 | 764.4 | 766.3 | 885.6 | 924.7 | 839.2 | 761.4 | 687.3 | 720.3 | 15- 20 | 1781 | 8623 |
| 25.0 | 421.0 | 439.2 | 535.0 | 473.5 | 454.7 | 422.1 | 387.7 | 431.4 | 20- 25 | 1261 | 9884 |
| 30.0 | 242.6 | 261.2 | 313.6 | 300.0 | 262.6 | 250.7 | 227.0 | 266.8 | 25- 30 | 876.8 | 10761 |
| 35.0 | 156.0 | 167.9 | 199.3 | 191.6 | 181.7 | 169.7 | 151.7 | 169.1 | 30- 35 | 630.9 | 11392 |
| 40.0 | 115.1 | 116.7 | 134.1 | 134.0 | 135.3 | 127.2 | 122.6 | 120.7 | 35- 40 | 488.0 | 11880 |
| 45.0 | 91.78 | 91.45 | 106.1 | 110.2 | 112.6 | 108.8 | 89.10 | 92.96 | 40- 45 | 417.8 | 12298 |
| 50.0 | 65.82 | 67.49 | 71.85 | 79.17 | 73.41 | 75.71 | 62.00 | 67.17 | 45- 50 | 343.4 | 12641 |
| 55.0 | 49.89 | 51.39 | 53.93 | 56.31 | 52.97 | 55.76 | 47.66 | 50.46 | 50- 55 | 263.4 | 12905 |
| 60.0 | 38.81 | 39.82 | 41.16 | 44.92 | 41.31 | 42.26 | 36.94 | 38.56 | 55- 60 | 212.5 | 13117 |
| 65.0 | 28.55 | 29.33 | 31.60 | 34.21 | 32.10 | 32.05 | 27.52 | 27.25 | 60- 65 | 171.7 | 13289 |
| 70.0 | 19.08 | 19.84 | 22.61 | 24.04 | 23.32 | 23.65 | 18.74 | 17.97 | 65- 70 | 130.1 | 13419 |
| 75.0 | 10.96 | 11.51 | 14.12 | 15.23 | 14.25 | 13.78 | 11.21 | 10.06 | 70- 75 | 87.44 | 13506 |
| 80.0 | 4.116 | 4.855 | 7.475 | 7.974 | 7.593 | 6.777 | 4.180 | 3.975 | 75- 80 | 48.76 | 13555 |
| 85.0 | 1.093 | 1.039 | 2.132 | 2.733 | 2.039 | 2.039 | 1.278 | 0.793 | 80- 85 | 19.38 | 13575 |
| 90.0 | 0.367 | 0.199 | 0.382 | 0.523 | 0.264 | 0.389 | 0.370 | 0.206 | 85- 90 | 4.447 | 13579 |
| 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:
Temperature:25.3DEG
Operators:
Test Date:2024.11.19

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

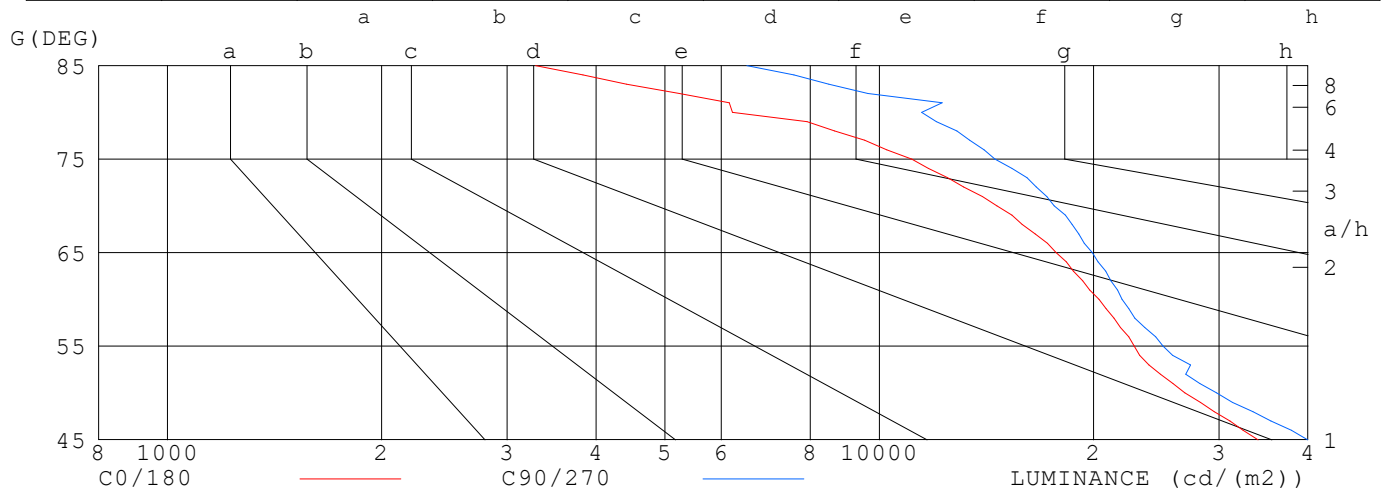
LUMINANCE LIMITATION CURVES

Report number:

| | | |
|------------------------------------|-------------------------|-------------|
| MANUFACTURER: ILUMEN GMBH | Address: | |
| NAME: Klose | TYPE: IL-FL19-N10040-15 | WEIGHT: |
| SPECIFICATION: 2835LED、4000K、15DEG | 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 | 3289 | 6516 |
| 80 | 6217 | 11466 |
| 75 | 11104 | 14537 |
| 70 | 14634 | 17608 |
| 65 | 17720 | 19918 |
| 60 | 20357 | 21929 |
| 55 | 22811 | 25045 |
| 50 | 26853 | 29771 |
| 45 | 34036 | 39977 |

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

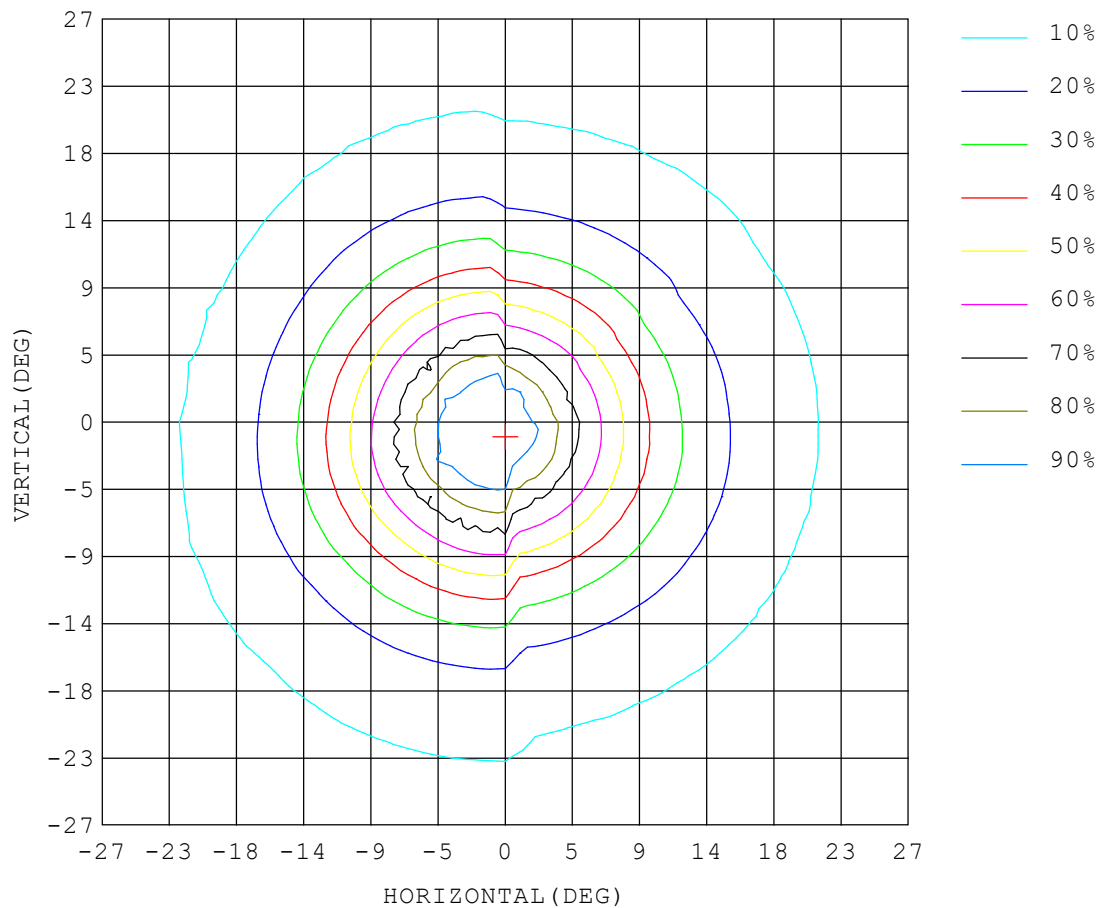
Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 10.000 m
 Remarks:

ISOCANDELA DIAGRAM

Report number:

| | | |
|------------------------------------|-------------------------|-------------|
| MANUFACTURER: ILUMEN GMBH | Address: | |
| NAME: Klose | TYPE: IL-FL19-N10040-15 | WEIGHT: |
| SPECIFICATION: 2835LED、4000K、15DEG | DIMENSION: | SERIAL No.: |

UNIT: cd



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

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