

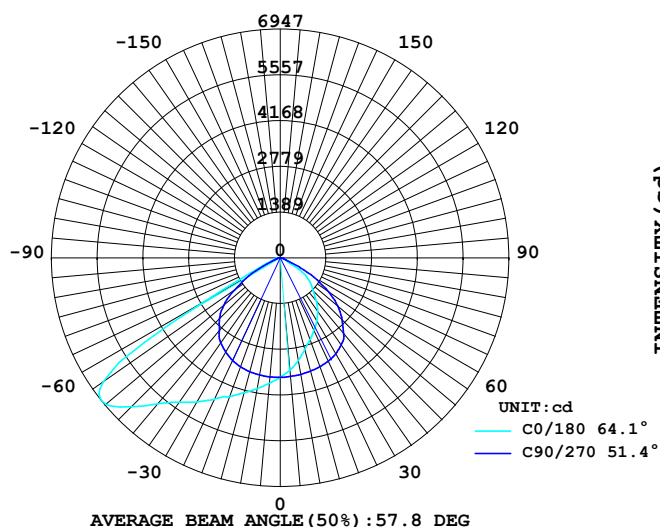
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

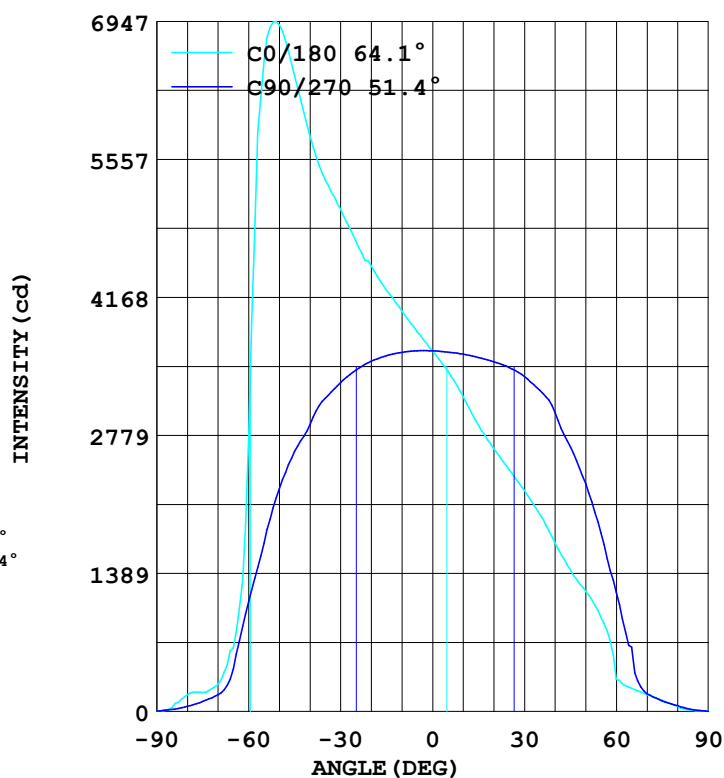
| | | |
|-------------------------------------|-------------------------|-------------|
| MANUFACTURER: ILUMEN GMBH | Address: | |
| NAME: Klose | TYPE: IL-FL19-N8040-P60 | WEIGHT: |
| SPECIFICATION: 2835LED、4000K、P60deg | DIMENSION: | SERIAL No.: |

| | | | | | |
|-------------------|---------|--------------------|---------|-------------------|-------|
| DATA OF LAMP | | Imax(cd) | 7147 | S/MH (C0/180) | 2.19 |
| MODEL | | EFFICIENCY (%) | 100.0 | S/MH (C90/270) | 1.35 |
| NOMINAL POWER(W) | 80 | TOTAL FLUX(lm) | 11168 | Voltage(V) | 230.3 |
| RATED VOLTAGE (V) | 230 | EFFICIENCY (lm/W) | 139.7 | Current(A) | 0.352 |
| NOMINAL FLUX(lm) | 11168.5 | η up (%) | 0.0 | Power(W) | 79.97 |
| LAMPS QUANTITY | 1 | η down (%) | 100.0 | Power Factor (PF) | 0.987 |
| TEST VOLTAGE (V) | 230.4 | Effective Flux(lm) | 11168.5 | EEI | 0.107 |

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:
 Temperature: 25.3 DEG
 Operators:
 Test Date: 2024.11.21

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-N8040-P60 | WEIGHT: |
| SPECIFICATION: 2835LED、4000K、P60deg | DIMENSION: | SERIAL No.: |

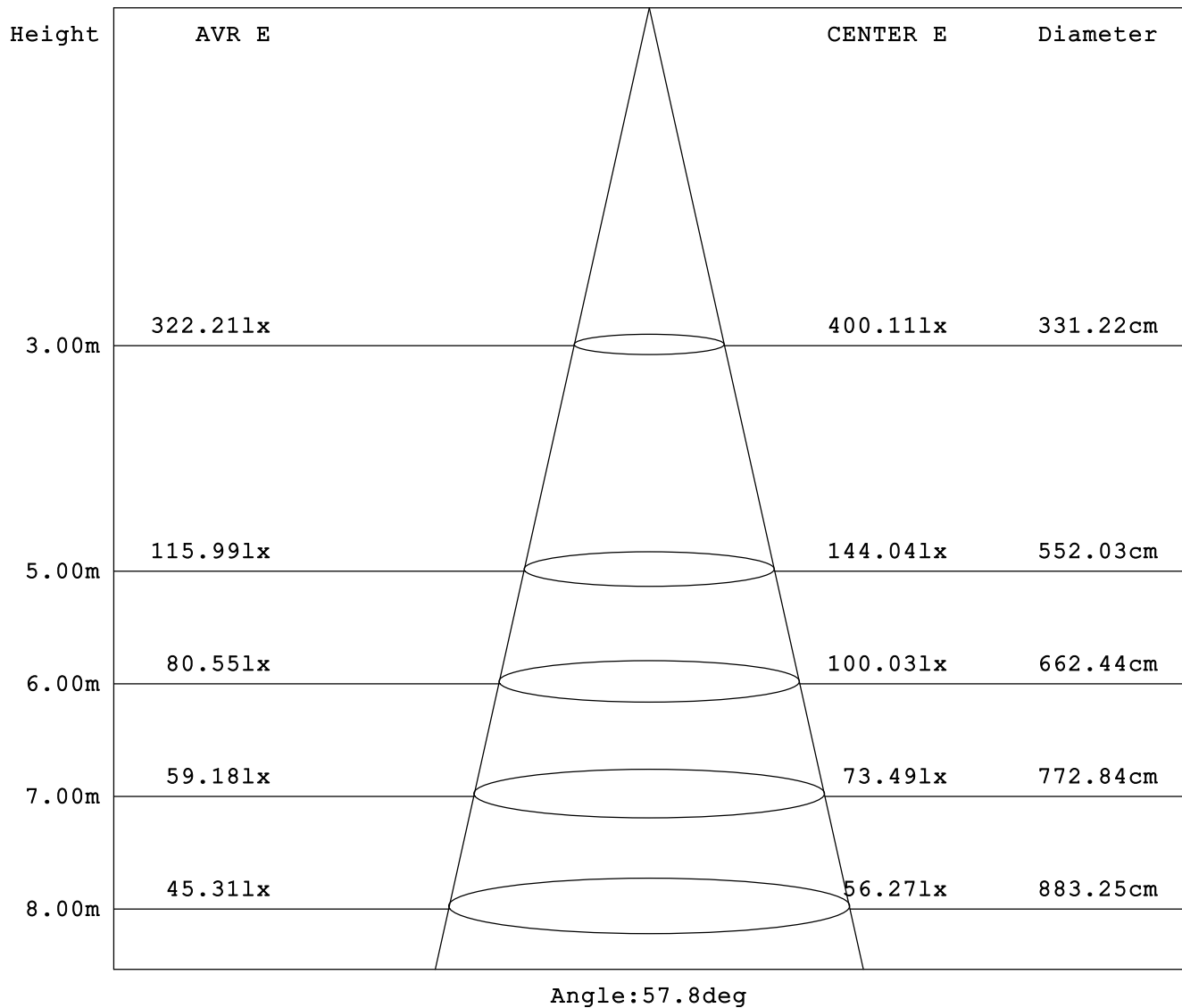
Test System:
Temperature: 25.3DEG
Operators:
Test Date: 2024.11.21

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: Klose | TYPE: IL-FL19-N8040-P60 | WEIGHT: |
| SPECIFICATION: 2835LED、4000K、P60deg | DIMENSION: | SERIAL No.: |



Test System:
Temperature: 25.3DEG
Operators:
Test Date: 2024.11.21

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-N8040-P60 | WEIGHT: |
| SPECIFICATION: 2835LED、4000K、P60deg | DIMENSION: | SERIAL No.: |

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Zone | total |
|-------|-----------------------|-------|-------|-------|-------|-------|-------|-------|---------|---------|-------|
| 5.0 | 3824 | 3768 | 3630 | 3486 | 3426 | 3478 | 3618 | 3760 | 0- 5 | 86.70 | 86.70 |
| 10.0 | 4033 | 3911 | 3614 | 3309 | 3167 | 3296 | 3596 | 3896 | 5- 10 | 258.5 | 345.2 |
| 15.0 | 4243 | 4068 | 3581 | 3093 | 2883 | 3084 | 3563 | 4047 | 10- 15 | 425.3 | 770.5 |
| 20.0 | 4483 | 4230 | 3525 | 2853 | 2647 | 2847 | 3520 | 4205 | 15- 20 | 585.5 | 1356 |
| 25.0 | 4733 | 4409 | 3435 | 2619 | 2433 | 2617 | 3463 | 4388 | 20- 25 | 739.9 | 2096 |
| 30.0 | 5052 | 4612 | 3312 | 2396 | 2224 | 2397 | 3370 | 4583 | 25- 30 | 887.3 | 2983 |
| 35.0 | 5349 | 4817 | 3151 | 2141 | 1985 | 2149 | 3234 | 4774 | 30- 35 | 1023 | 4007 |
| 40.0 | 5796 | 5009 | 2885 | 1838 | 1696 | 1838 | 3007 | 4933 | 35- 40 | 1139 | 5146 |
| 45.0 | 6400 | 5109 | 2618 | 1506 | 1424 | 1495 | 2662 | 5004 | 40- 45 | 1227 | 6373 |
| 50.0 | 6914 | 5015 | 2238 | 1114 | 1211 | 1082 | 2291 | 4850 | 45- 50 | 1291 | 7664 |
| 55.0 | 6552 | 4423 | 1695 | 714.8 | 949.6 | 690.8 | 1800 | 4238 | 50- 55 | 1292 | 8956 |
| 60.0 | 2780 | 3732 | 1111 | 394.2 | 322.6 | 367.3 | 1199 | 3518 | 55- 60 | 1109 | 10065 |
| 65.0 | 642.9 | 2643 | 431.6 | 224.5 | 232.6 | 214.5 | 649.4 | 2363 | 60- 65 | 667.1 | 10732 |
| 70.0 | 272.6 | 578.5 | 168.1 | 153.7 | 170.6 | 147.4 | 179.0 | 522.0 | 65- 70 | 272.1 | 11005 |
| 75.0 | 193.2 | 146.8 | 101.7 | 87.20 | 114.3 | 81.70 | 105.5 | 146.9 | 70- 75 | 87.85 | 11092 |
| 80.0 | 170.3 | 73.90 | 51.81 | 38.33 | 48.88 | 36.01 | 59.46 | 75.25 | 75- 80 | 48.12 | 11141 |
| 85.0 | 37.62 | 28.94 | 19.54 | 12.67 | 11.61 | 11.49 | 19.04 | 28.81 | 80- 85 | 21.96 | 11163 |
| 90.0 | 2.337 | 5.607 | 3.572 | 3.679 | 4.926 | 3.797 | 2.703 | 4.300 | 85- 90 | 5.937 | 11168 |
| 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:cd | | | | | | | | | UNIT:lm | |

Test System:
Temperature:25.3DEG
Operators:
Test Date:2024.11.21

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

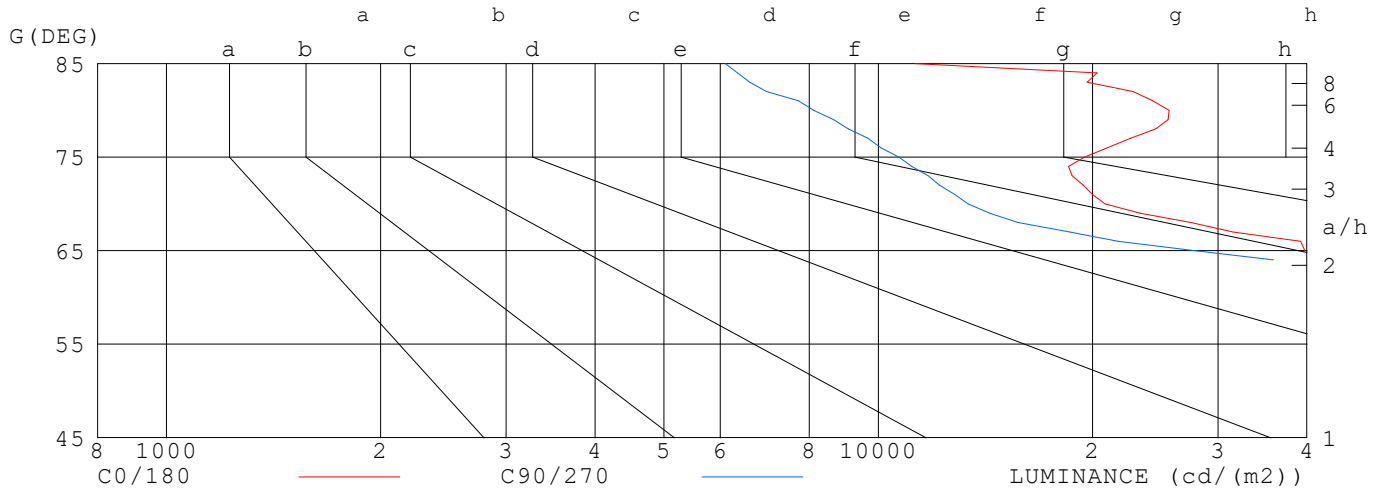
LUMINANCE LIMITATION CURVES

Report number:

| | | |
|-------------------------------------|-------------------------|-------------|
| MANUFACTURER: ILUMEN GMBH | Address: | |
| NAME: Klose | TYPE: IL-FL19-N8040-P60 | WEIGHT: |
| SPECIFICATION: 2835LED、4000K、P60deg | 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 | 11272 | 6099 |
| 80 | 25621 | 8114 |
| 75 | 19497 | 10685 |
| 70 | 20816 | 13365 |
| 65 | 39728 | 27771 |
| 60 | 145199 | 60407 |
| 55 | 298293 | 80366 |
| 50 | 280859 | 94675 |
| 45 | 236342 | 100692 |

Test System:
 Temperature: 25.3 DEG
 Operators:
 Test Date: 2024.11.21

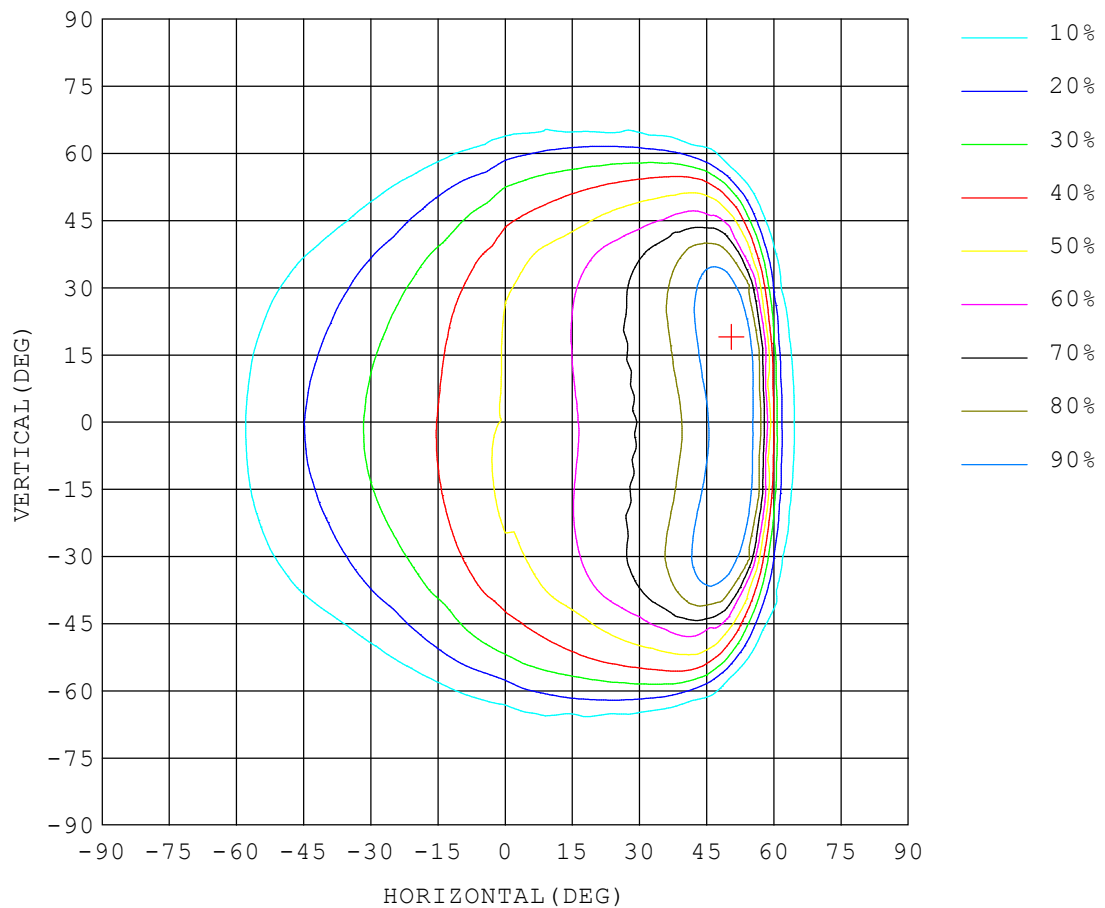
Test Set: 5.0 deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 10.000 m
 Remarks:

ISOCANDELA DIAGRAM

Report number:

| | | |
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| MANUFACTURER: ILUMEN GMBH | Address: | |
| NAME: Klose | TYPE: IL-FL19-N8040-P60 | WEIGHT: |
| SPECIFICATION: 2835LED、4000K、P60deg | DIMENSION: | SERIAL No.: |

UNIT: cd



Test System:
Temperature: 25.3 DEG
Operators:
Test Date: 2024.11.21

Test Set: 5.0 deg/s C-Gamma (TYPE C)
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Remarks: