

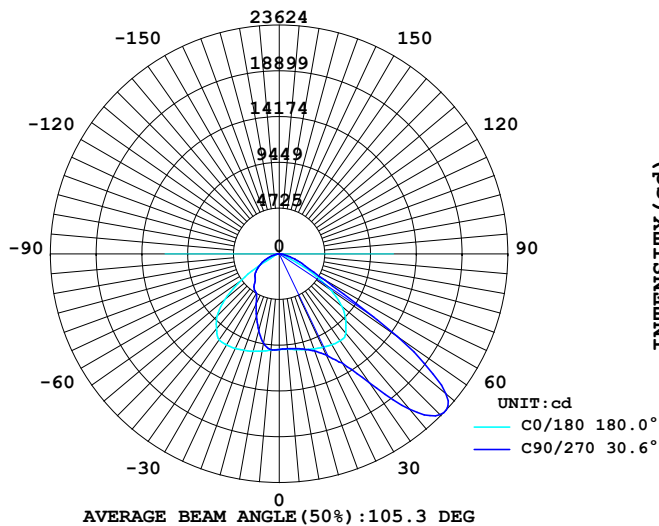
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

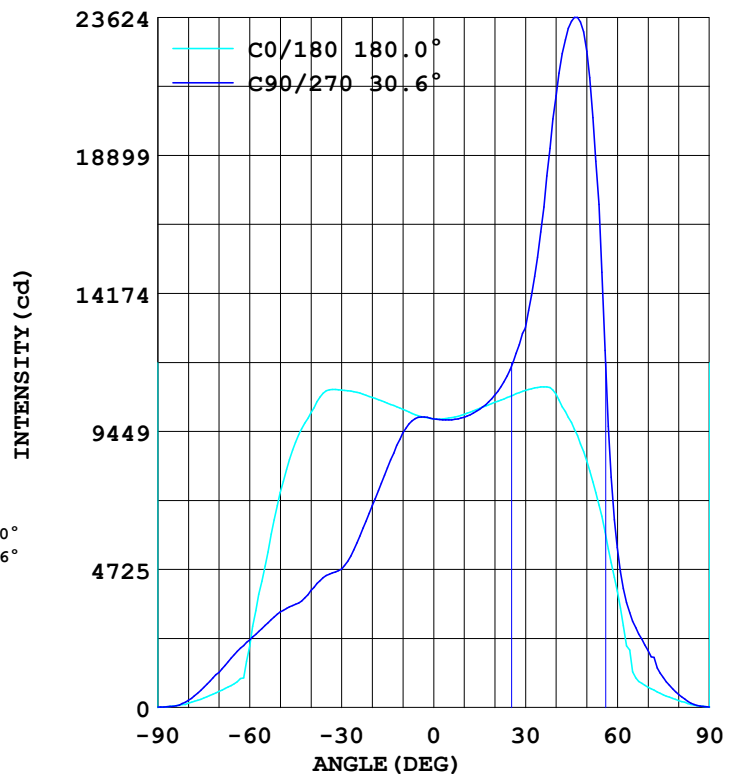
| | | |
|-------------------------------------|--------------------------|-------------|
| MANUFACTURER: ILUMEN GMBH | Address: | |
| NAME: Klose | TYPE: IL-FL19-N24040-P45 | WEIGHT: |
| SPECIFICATION: 2835LED、4000K、P45DEG | DIMENSION: | SERIAL No.: |

| | | | | | |
|------------------|---------|--------------------|---------|------------------|-------|
| DATA OF LAMP | | Imax(cd) | 23827 | S/MH(C0/180) | 1.57 |
| MODEL | | EFFICIENCY(%) | 100.0 | S/MH(C90/270) | 0.83 |
| NOMINAL POWER(W) | 240 | TOTAL FLUX(lm) | 32349 | Voltage(V) | 230.3 |
| RATED VOLTAGE(V) | 230 | EFFICIENCY(lm/W) | 134.8 | Current(A) | 1.055 |
| NOMINAL FLUX(lm) | 32349.0 | η up(%) | 0.0 | Power(W) | 239.8 |
| LAMPS QUANTITY | 1 | η down(%) | 100.0 | Power Factor(PF) | 0.987 |
| TEST VOLTAGE(V) | 230.4 | Effective Flux(lm) | 32349.1 | EEI | 0.111 |

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:

| | | |
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| MANUFACTURER: ILUMEN GMBH | Address: | |
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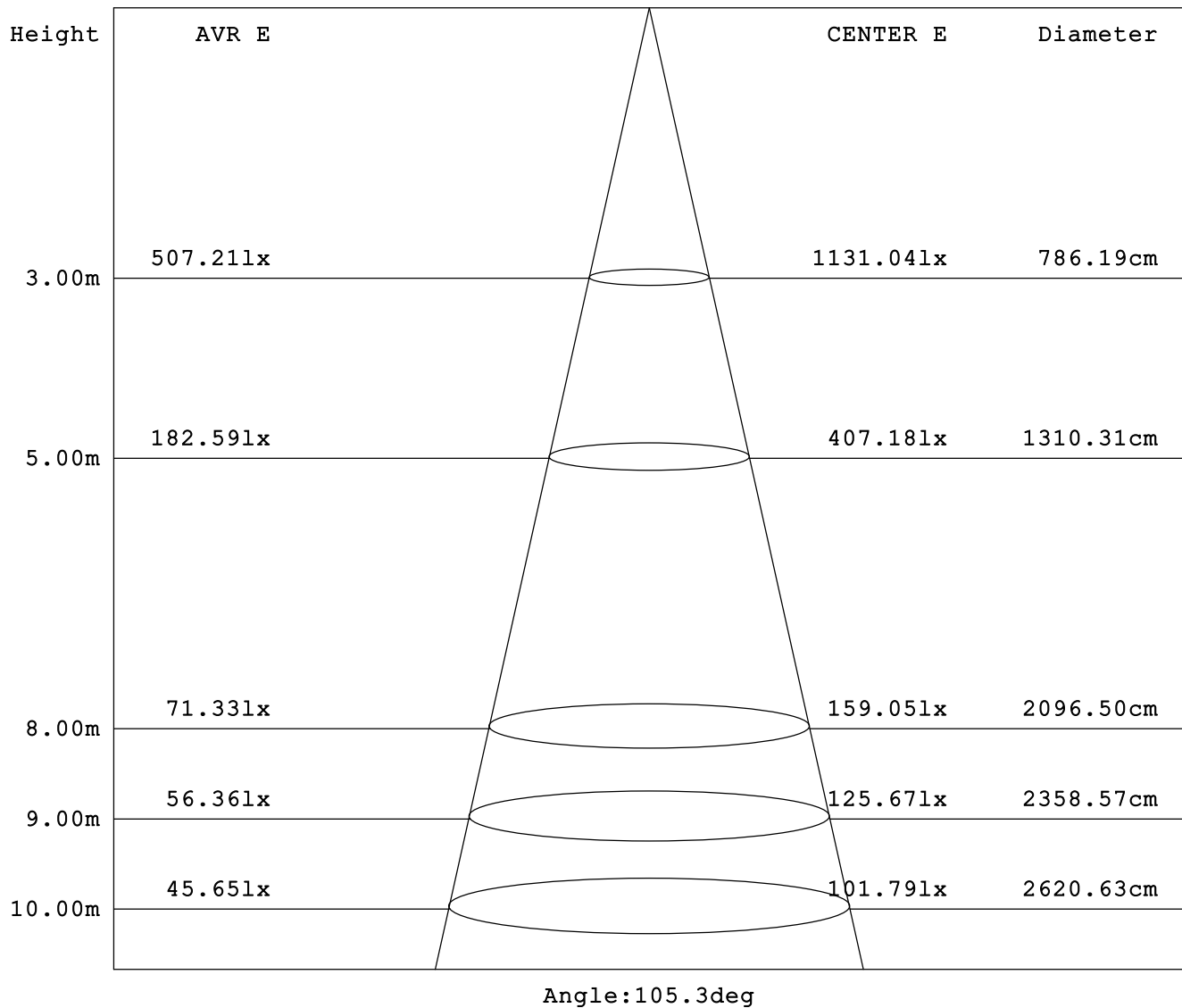
Test System:
Temperature: 25.3DEG
Operators:
Test Date: 2024.11.21

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-N24040-P45 | WEIGHT: |
| SPECIFICATION: 2835LED、4000K、P45DEG | 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-N24040-P45 | WEIGHT: |
| SPECIFICATION: 2835LED、4000K、P45DEG | DIMENSION: | SERIAL No.: |

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Zone | total |
|-------|--------------------------|-------|-------|-------|-------|-------|-------|-------|---------|---------|-------|
| 5.0 | 999.2 | 997.8 | 993.1 | 997.3 | 990.7 | 986.2 | 984.2 | 987.1 | 0- 5 | 236.8 | 236.8 |
| 10.0 | 1021 | 978.7 | 939.1 | 966.5 | 1003 | 998.4 | 993.8 | 1000 | 5- 10 | 709.3 | 946.1 |
| 15.0 | 1042 | 921.1 | 819.6 | 870.2 | 1024 | 1026 | 1020 | 1029 | 10- 15 | 1164 | 2110 |
| 20.0 | 1061 | 821.4 | 691.4 | 748.3 | 1044 | 1074 | 1069 | 1086 | 15- 20 | 1584 | 3694 |
| 25.0 | 1079 | 701.0 | 564.0 | 623.0 | 1065 | 1147 | 1155 | 1185 | 20- 25 | 1978 | 5672 |
| 30.0 | 1087 | 575.5 | 474.2 | 497.2 | 1085 | 1252 | 1299 | 1353 | 25- 30 | 2379 | 8051 |
| 35.0 | 1085 | 452.9 | 451.8 | 426.8 | 1097 | 1403 | 1627 | 1614 | 30- 35 | 2858 | 10909 |
| 40.0 | 1008 | 353.4 | 399.9 | 383.1 | 1072 | 1553 | 2093 | 2004 | 35- 40 | 3461 | 14371 |
| 45.0 | 907.4 | 288.9 | 353.0 | 312.7 | 975.3 | 1655 | 2348 | 2254 | 40- 45 | 4000 | 18370 |
| 50.0 | 736.2 | 224.6 | 326.7 | 270.7 | 842.8 | 1553 | 2245 | 2164 | 45- 50 | 4176 | 22546 |
| 55.0 | 483.3 | 177.1 | 280.6 | 238.7 | 654.3 | 1253 | 1490 | 1681 | 50- 55 | 3688 | 26234 |
| 60.0 | 211.0 | 143.7 | 231.5 | 194.6 | 399.1 | 919.2 | 546.8 | 971.9 | 55- 60 | 2572 | 28806 |
| 65.0 | 81.92 | 110.3 | 181.4 | 150.1 | 122.5 | 626.6 | 295.0 | 501.6 | 60- 65 | 1679 | 30485 |
| 70.0 | 54.79 | 73.21 | 119.6 | 101.8 | 70.12 | 314.4 | 195.1 | 221.6 | 65- 70 | 1029 | 31514 |
| 75.0 | 32.13 | 37.01 | 68.04 | 56.06 | 43.77 | 68.98 | 102.7 | 72.15 | 70- 75 | 507.8 | 32022 |
| 80.0 | 15.07 | 14.01 | 25.03 | 21.19 | 23.82 | 32.86 | 44.56 | 29.48 | 75- 80 | 225.3 | 32248 |
| 85.0 | 4.785 | 3.282 | 4.202 | 3.899 | 8.316 | 10.07 | 10.36 | 9.136 | 80- 85 | 82.53 | 32330 |
| 90.0 | 1.068 | 0.982 | 1.420 | 0.958 | 1.758 | 2.175 | 1.199 | 1.366 | 85- 90 | 18.97 | 32349 |
| 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:
Test Date:2024.11.21

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

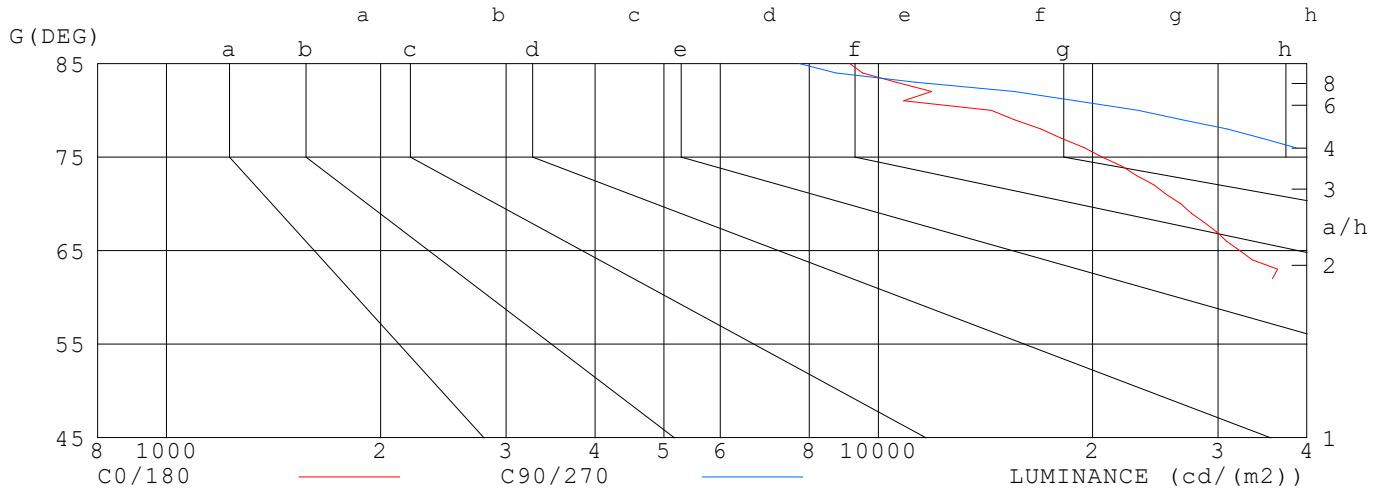
LUMINANCE LIMITATION CURVES

Report number:

| | | |
|-------------------------------------|--------------------------|-------------|
| MANUFACTURER: ILUMEN GMBH | Address: | |
| NAME: Klose | TYPE: IL-FL19-N24040-P45 | WEIGHT: |
| SPECIFICATION: 2835LED、4000K、P45DEG | 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 | 9122 | 7751 |
| 80 | 14423 | 23178 |
| 75 | 20629 | 42264 |
| 70 | 26618 | 56255 |
| 65 | 32207 | 69025 |
| 60 | 70126 | 74427 |
| 55 | 139999 | 78660 |
| 50 | 190308 | 81724 |
| 45 | 213226 | 80253 |

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

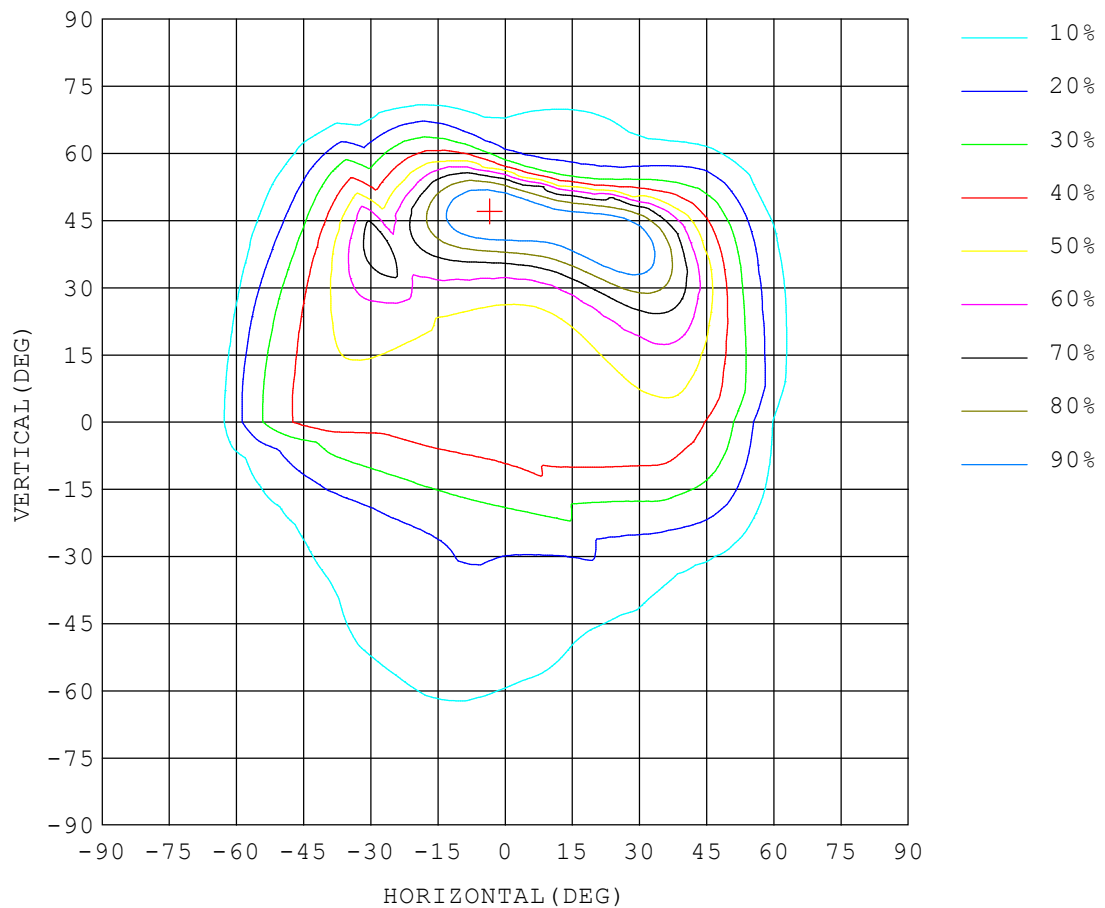
Test Set: 5.0 deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 10.000 m
 Remarks:

ISOCANDELA DIAGRAM

Report number:

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| MANUFACTURER: ILUMEN GMBH | Address: | |
| NAME: Klose | TYPE: IL-FL19-N24040-P45 | WEIGHT: |
| SPECIFICATION: 2835LED、4000K、P45DEG | DIMENSION: | SERIAL No.: |

UNIT: cd



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

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