

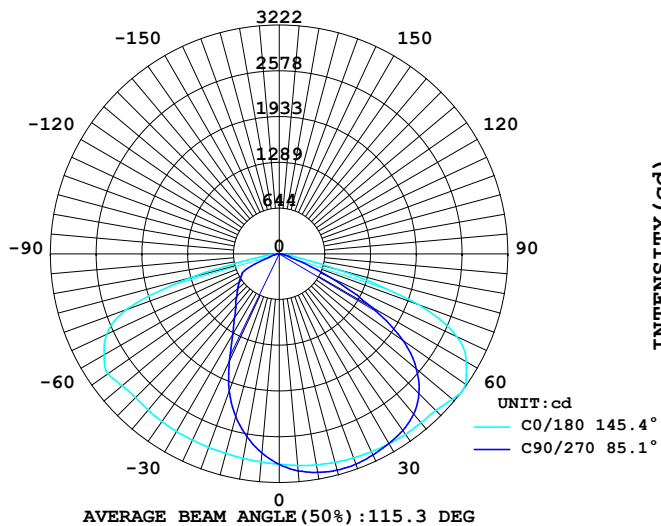
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

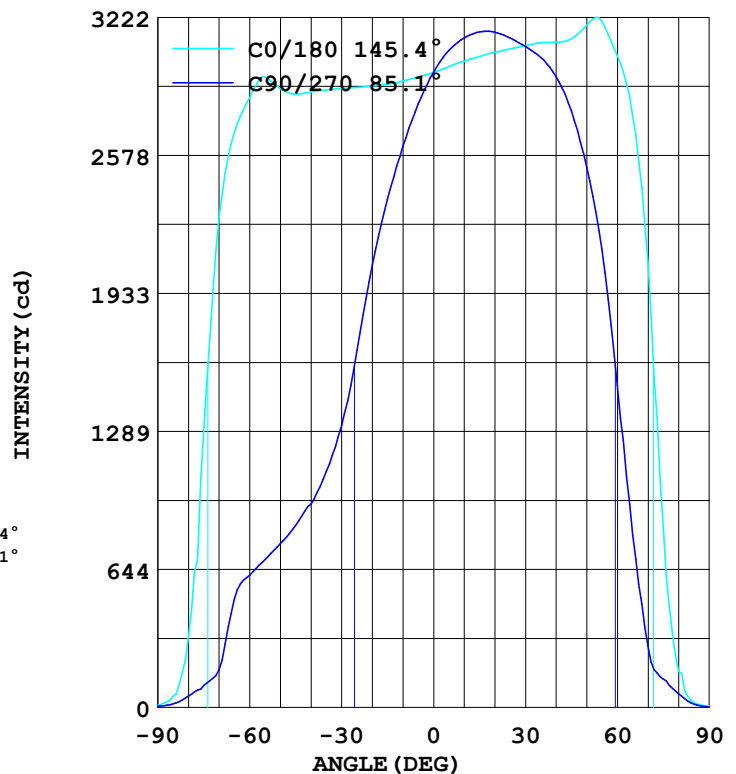
| | | |
|------------------------------------|-------------------------|-------------|
| MANUFACTURER: ILUMEN GMBH | Address: | |
| NAME: Klose | TYPE: IL-FL19-N6040-TY2 | WEIGHT: |
| SPECIFICATION: 2835LED、4000K、type2 | DIMENSION: | SERIAL No.: |

| | | | | | |
|-------------------|--------|--------------------|--------|-------------------|-------|
| DATA OF LAMP | | Imax(cd) | 3423 | S/MH (C0/180) | 1.50 |
| MODEL | | EFFICIENCY (%) | 100.0 | S/MH (C90/270) | 0.83 |
| NOMINAL POWER(W) | 60 | TOTAL FLUX(lm) | 9571.9 | Voltage(V) | 230.3 |
| RATED VOLTAGE (V) | 230 | EFFICIENCY (lm/W) | 159.6 | Current(A) | 0.264 |
| NOMINAL FLUX(lm) | 9572.0 | η up (%) | 0.0 | Power(W) | 59.98 |
| LAMPS QUANTITY | 1 | η down (%) | 100.0 | Power Factor (PF) | 0.987 |
| TEST VOLTAGE (V) | 230.4 | Effective Flux(lm) | 9572.0 | EEL | 0.094 |

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:
 Temperature: 25.3 DEG
 Operators:
 Test Date: 2024.11.18

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: | |
| NAME: Klose | TYPE: IL-FL19-N6040-TY2 | WEIGHT: |
| SPECIFICATION: 2835LED、4000K、type2 | DIMENSION: | SERIAL No.: |

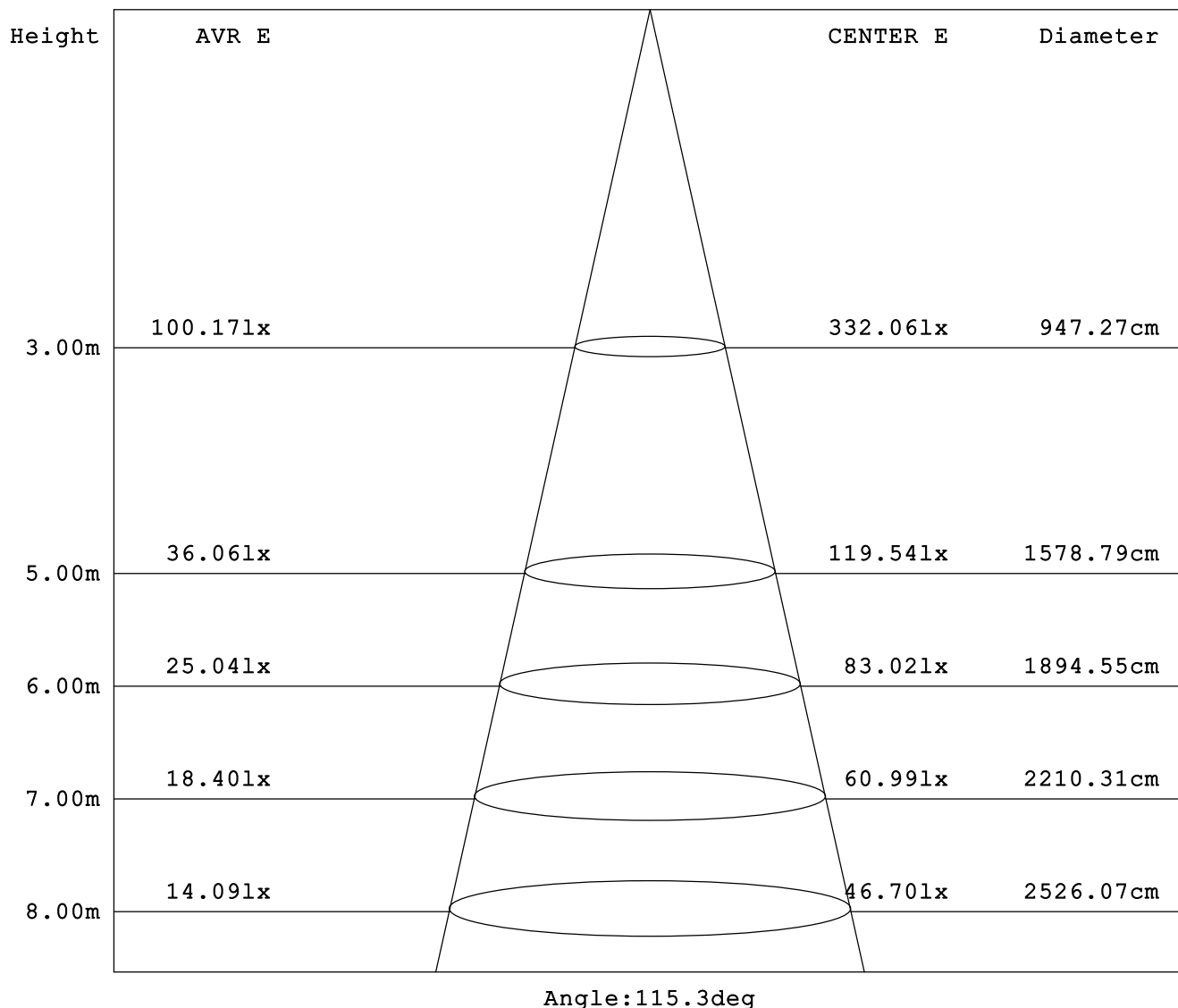
Test System:
Temperature: 25.3DEG
Operators:
Test Date: 2024.11.18

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:

| | | |
|------------------------------------|-------------------------|-------------|
| MANUFACTURER: ILUMEN GMBH | Address: | |
| NAME: Klose | TYPE: IL-FL19-N6040-TY2 | WEIGHT: |
| SPECIFICATION: 2835LED、4000K、type2 | DIMENSION: | SERIAL No.: |



Test System:
 Temperature: 25.3DEG
 Operators:
 Test Date: 2024.11.18

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-N6040-TY2 | WEIGHT: |
| SPECIFICATION: 2835LED、4000K、type2 | DIMENSION: | SERIAL No.: |

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | zone | total |
|-------|-----------------------|-------|-------|-------|-------|-------|-------|-------|---------|---------|-------|
| 5.0 | 2943 | 2845 | 2818 | 2887 | 2992 | 3065 | 3068 | 3022 | 0- 5 | 70.76 | 70.76 |
| 10.0 | 2925 | 2709 | 2620 | 2786 | 3017 | 3137 | 3125 | 3057 | 5- 10 | 210.1 | 280.9 |
| 15.0 | 2910 | 2556 | 2372 | 2664 | 3039 | 3184 | 3154 | 3075 | 10- 15 | 343.4 | 624.3 |
| 20.0 | 2902 | 2395 | 2066 | 2526 | 3059 | 3214 | 3152 | 3079 | 15- 20 | 467.0 | 1091 |
| 25.0 | 2895 | 2204 | 1667 | 2358 | 3074 | 3227 | 3126 | 3069 | 20- 25 | 576.4 | 1668 |
| 30.0 | 2890 | 1971 | 1316 | 2143 | 3090 | 3224 | 3086 | 3049 | 25- 30 | 668.5 | 2336 |
| 35.0 | 2883 | 1689 | 1102 | 1861 | 3103 | 3210 | 3035 | 3021 | 30- 35 | 745.6 | 3082 |
| 40.0 | 2873 | 1348 | 948.1 | 1503 | 3106 | 3193 | 2945 | 2994 | 35- 40 | 810.7 | 3893 |
| 45.0 | 2863 | 1064 | 850.2 | 1154 | 3122 | 3159 | 2785 | 2959 | 40- 45 | 862.7 | 4756 |
| 50.0 | 2889 | 874.4 | 765.0 | 897.3 | 3185 | 3099 | 2520 | 2900 | 45- 50 | 900.8 | 5656 |
| 55.0 | 2944 | 735.0 | 691.6 | 726.1 | 3205 | 3000 | 2139 | 2800 | 50- 55 | 920.1 | 6577 |
| 60.0 | 2848 | 615.5 | 618.3 | 589.0 | 3044 | 2760 | 1504 | 2599 | 55- 60 | 895.6 | 7472 |
| 65.0 | 2685 | 509.3 | 507.9 | 475.2 | 2764 | 2289 | 809.4 | 2196 | 60- 65 | 807.2 | 8279 |
| 70.0 | 2288 | 408.0 | 176.1 | 338.5 | 2079 | 1492 | 285.8 | 1523 | 65- 70 | 652.8 | 8932 |
| 75.0 | 1289 | 213.7 | 102.4 | 107.2 | 838.5 | 425.5 | 131.5 | 587.1 | 70- 75 | 413.9 | 9346 |
| 80.0 | 322.1 | 57.76 | 53.14 | 37.06 | 168.1 | 77.51 | 63.82 | 122.7 | 75- 80 | 174.3 | 9520 |
| 85.0 | 51.92 | 18.68 | 16.69 | 10.35 | 23.28 | 24.74 | 15.51 | 44.14 | 80- 85 | 43.68 | 9564 |
| 90.0 | 11.16 | 5.529 | 6.065 | 5.470 | 8.238 | 7.085 | 2.791 | 10.24 | 85- 90 | 7.813 | 9572 |
| 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:2024.11.18

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

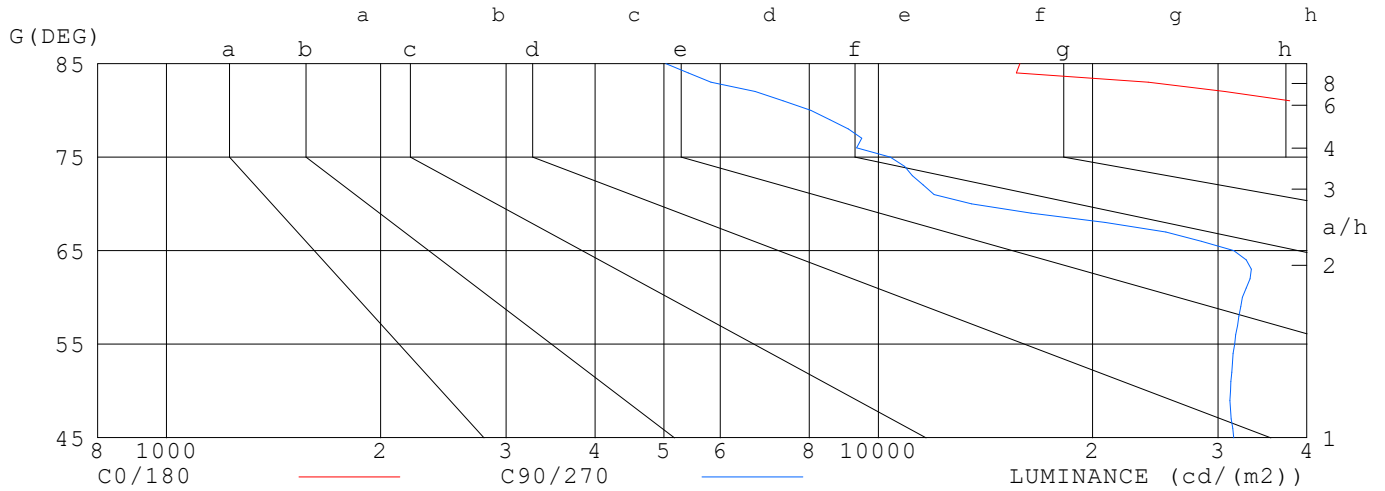
LUMINANCE LIMITATION CURVES

Report number:

| | | |
|------------------------------------|-------------------------|-------------|
| MANUFACTURER: ILUMEN GMBH | Address: | |
| NAME: Klose | TYPE: IL-FL19-N6040-TY2 | WEIGHT: |
| SPECIFICATION: 2835LED、4000K、type2 | 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 | 15805 | 5031 |
| 80 | 49211 | 8038 |
| 75 | 132096 | 10394 |
| 70 | 177432 | 13525 |
| 65 | 168515 | 31570 |
| 60 | 151089 | 32482 |
| 55 | 136140 | 31675 |
| 50 | 119239 | 31263 |
| 45 | 107406 | 31584 |

Test System:
 Temperature: 25.3 DEG
 Operators:
 Test Date: 2024.11.18

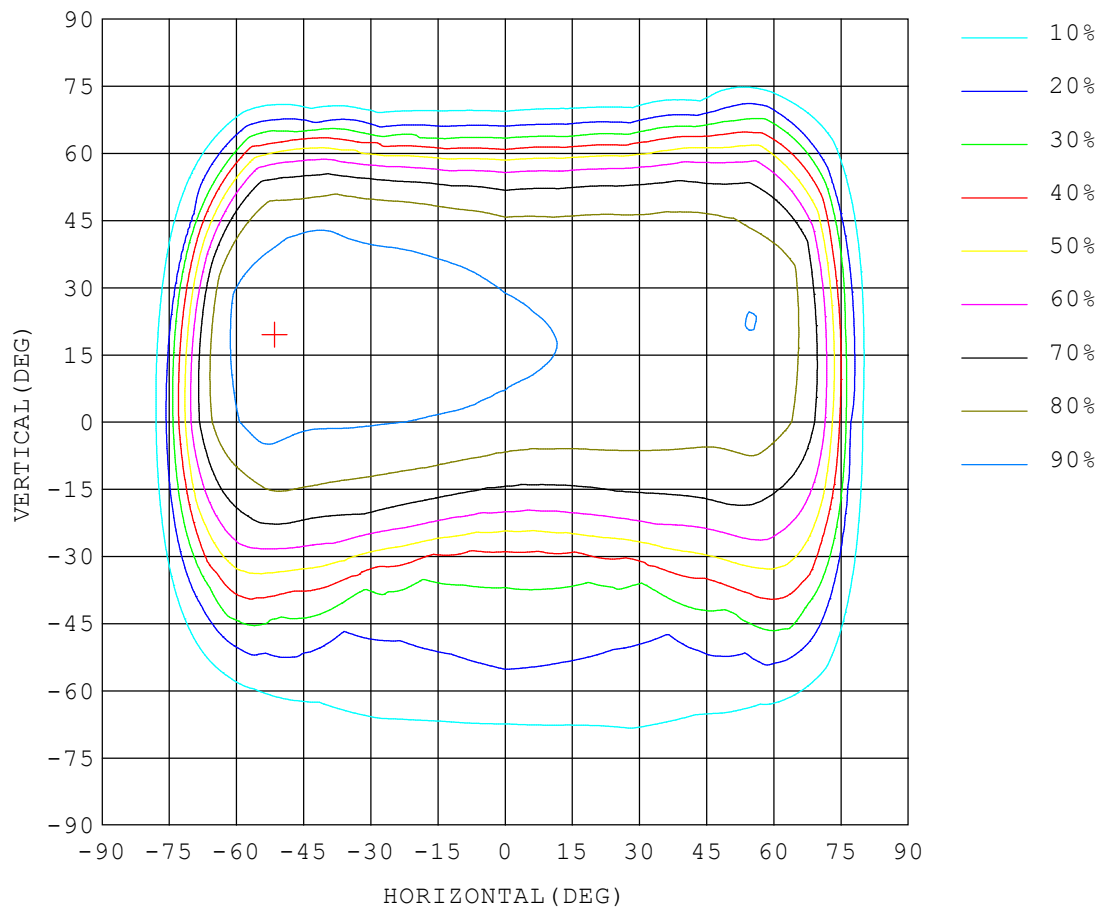
Test Set: 5.0 deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 10.000 m
 Remarks:

ISOCANDELA DIAGRAM

Report number:

| | | |
|------------------------------------|-------------------------|-------------|
| MANUFACTURER: ILUMEN GMBH | Address: | |
| NAME: Klose | TYPE: IL-FL19-N6040-TY2 | WEIGHT: |
| SPECIFICATION: 2835LED、4000K、type2 | DIMENSION: | SERIAL No.: |

UNIT: cd



Test System:
Temperature: 25.3 DEG
Operators:
Test Date: 2024.11.18

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