

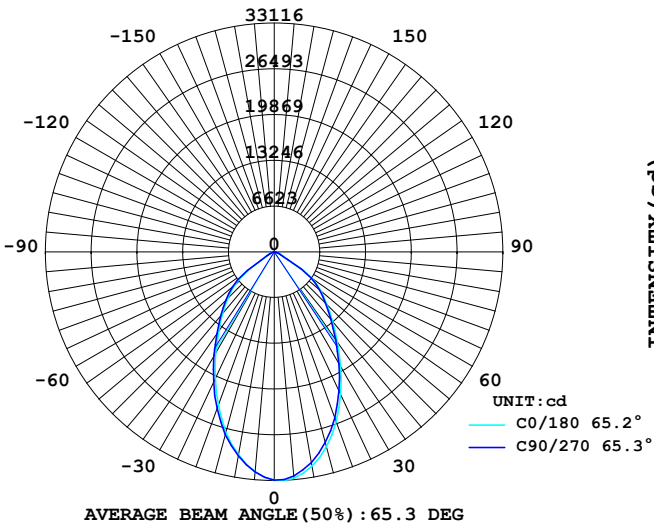
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

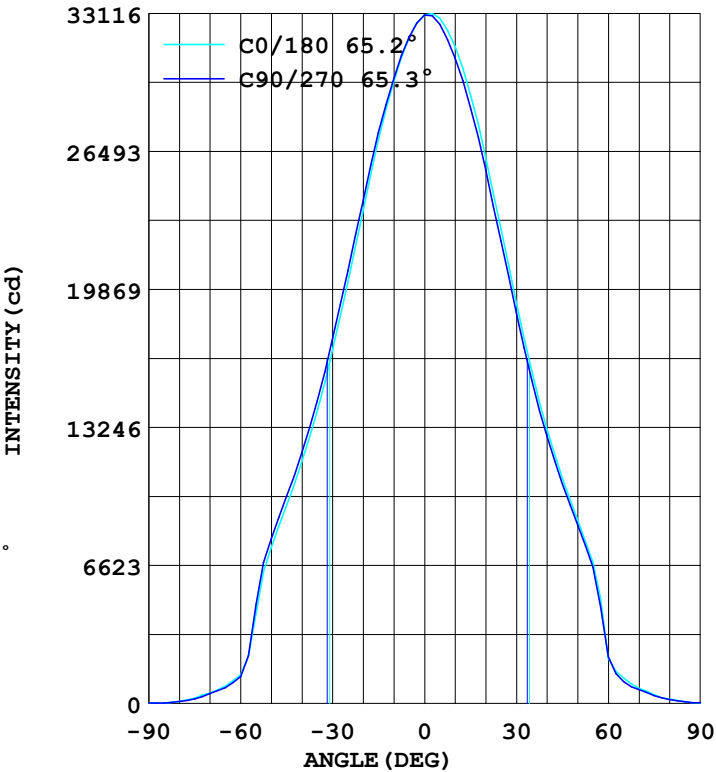
|                                    |                         |             |
|------------------------------------|-------------------------|-------------|
| MANUFACTURER: ILUMEN GMBH          | Address:                |             |
| NAME: Klose                        | TYPE: IL-FL19-N30040-60 | WEIGHT:     |
| SPECIFICATION: 2835LED、4000K、60DEG | DIMENSION:              | SERIAL No.: |

|                   |         |                     |         |                   |       |
|-------------------|---------|---------------------|---------|-------------------|-------|
| DATA OF LAMP      |         | Imax (cd)           | 33116   | S/MH (C0/180)     | 0.87  |
| MODEL             |         | EFFICIENCY (%)      | 100.0   | S/MH (C90/270)    | 0.89  |
| NOMINAL POWER (W) | 300     | TOTAL FLUX (lm)     | 45286   | Voltage (V)       | 230.3 |
| RATED VOLTAGE (V) | 230     | EFFICIENCY (lm/W)   | 150.4   | Current (A)       | 1.324 |
| NOMINAL FLUX (lm) | 45286.3 | $\eta$ up (%)       | 0.0     | Power (W)         | 301.1 |
| LAMPS QUANTITY    | 1       | $\eta$ down (%)     | 100.0   | Power Factor (PF) | 0.987 |
| TEST VOLTAGE (V)  | 230.4   | Effective Flux (lm) | 45286.3 | EEI               | 0.100 |

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



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

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

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## Color Temperature Data List

Report number:

|                                    |                         |             |
|------------------------------------|-------------------------|-------------|
| MANUFACTURER: ILUMEN GMBH          | Address:                |             |
| NAME: Klose                        | TYPE: IL-FL19-N30040-60 | WEIGHT:     |
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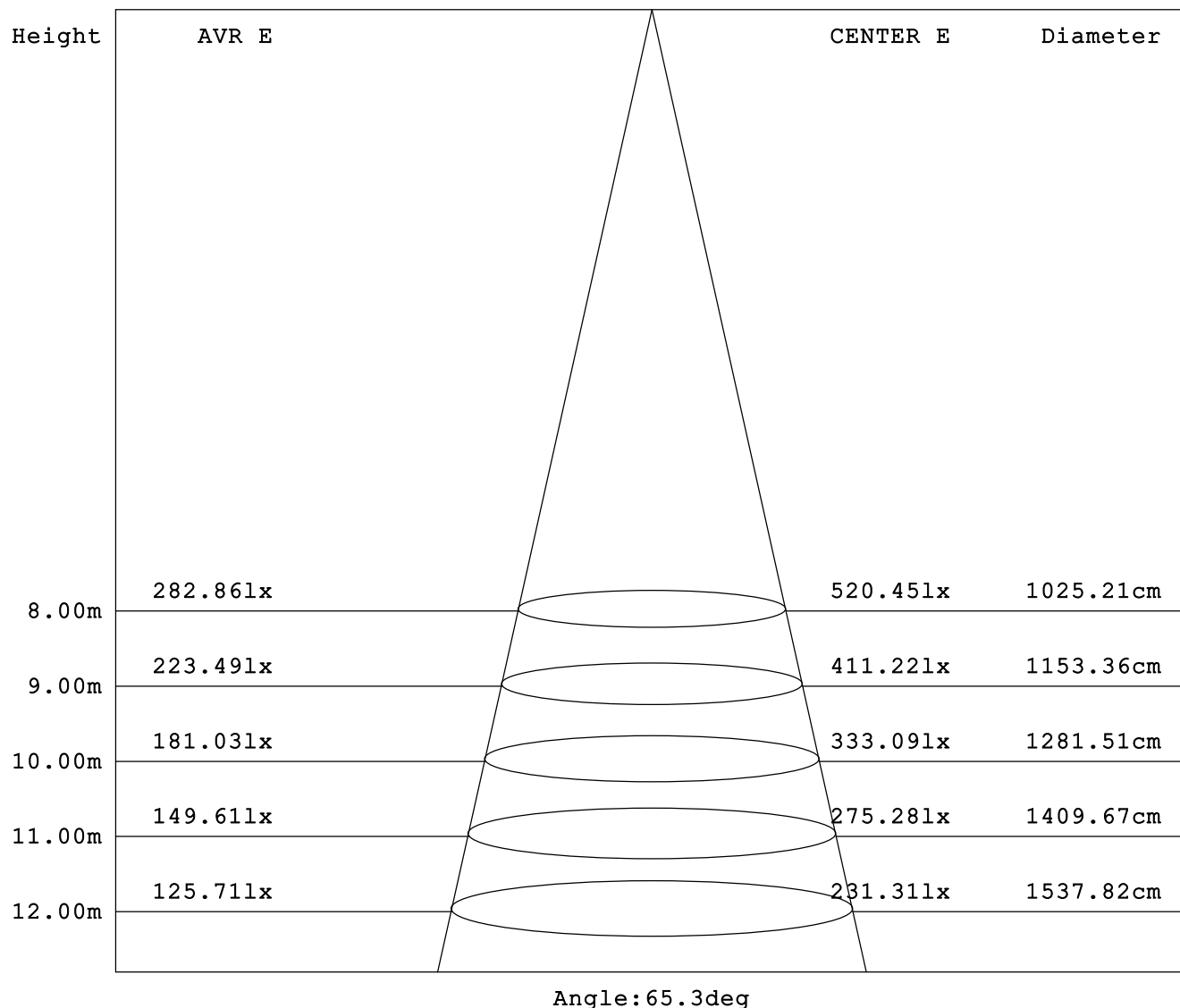
Test System:  
Temperature: 25.3DEG  
Operators:  
Test Date: 2024.11.19

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

## AVERAGE AND CENTER E Figure

Report number:

|                                    |                         |             |
|------------------------------------|-------------------------|-------------|
| MANUFACTURER: ILUMEN GMBH          | Address:                |             |
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| SPECIFICATION: 2835LED、4000K、60DEG | 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:

## ZONAL FLUX DIAGRAM

Report number:

|                                    |                         |             |
|------------------------------------|-------------------------|-------------|
| MANUFACTURER: ILUMEN GMBH          | Address:                |             |
| NAME: Klose                        | TYPE: IL-FL19-N30040-60 | WEIGHT:     |
| SPECIFICATION: 2835LED、4000K、60DEG | DIMENSION:              | SERIAL No.: |

| γ     | C0                       | C45   | C90   | C135  | C180  | C225  | C270  | C315  | γ       | Zone    | total |
|-------|--------------------------|-------|-------|-------|-------|-------|-------|-------|---------|---------|-------|
| 5.0   | 3195                     | 3197  | 3198  | 3216  | 3288  | 3277  | 3258  | 3252  | 0- 5    | 781.5   | 781.5 |
| 10.0  | 2984                     | 2989  | 2997  | 3031  | 3151  | 3133  | 3095  | 3077  | 5- 10   | 2249    | 3031  |
| 15.0  | 2706                     | 2715  | 2740  | 2764  | 2917  | 2901  | 2856  | 2826  | 10- 15  | 3474    | 6505  |
| 20.0  | 2369                     | 2393  | 2417  | 2447  | 2621  | 2609  | 2562  | 2525  | 15- 20  | 4361    | 10866 |
| 25.0  | 2023                     | 2060  | 2077  | 2119  | 2278  | 2265  | 2219  | 2185  | 20- 25  | 4862    | 15729 |
| 30.0  | 1699                     | 1727  | 1753  | 1779  | 1920  | 1913  | 1873  | 1843  | 25- 30  | 5011    | 20740 |
| 35.0  | 1403                     | 1426  | 1452  | 1468  | 1596  | 1584  | 1553  | 1527  | 30- 35  | 4864    | 25604 |
| 40.0  | 1162                     | 1184  | 1205  | 1216  | 1314  | 1301  | 1280  | 1256  | 35- 40  | 4554    | 30158 |
| 45.0  | 950.2                    | 969.8 | 994.0 | 999.4 | 1078  | 1067  | 1051  | 1033  | 40- 45  | 4167    | 34326 |
| 50.0  | 747.0                    | 773.0 | 789.1 | 803.7 | 877.9 | 868.9 | 855.1 | 839.8 | 45- 50  | 3708    | 38034 |
| 55.0  | 434.0                    | 582.8 | 476.1 | 610.7 | 678.3 | 680.5 | 654.7 | 649.4 | 50- 55  | 3095    | 41129 |
| 60.0  | 137.4                    | 359.6 | 129.5 | 390.5 | 217.1 | 484.1 | 225.1 | 449.4 | 55- 60  | 2052    | 43182 |
| 65.0  | 83.97                    | 147.4 | 75.72 | 165.3 | 122.6 | 264.0 | 104.8 | 232.2 | 60- 65  | 1074    | 44255 |
| 70.0  | 50.65                    | 66.40 | 47.61 | 73.04 | 73.00 | 97.55 | 66.84 | 91.10 | 65- 70  | 531.3   | 44787 |
| 75.0  | 24.91                    | 36.36 | 22.59 | 40.46 | 42.24 | 50.18 | 38.21 | 46.46 | 70- 75  | 278.4   | 45065 |
| 80.0  | 10.75                    | 13.98 | 9.307 | 16.13 | 21.22 | 23.82 | 19.38 | 21.11 | 75- 80  | 142.9   | 45208 |
| 85.0  | 2.954                    | 4.353 | 2.619 | 4.946 | 8.284 | 6.959 | 7.859 | 6.244 | 80- 85  | 57.74   | 45266 |
| 90.0  | 2.649                    | 3.096 | 2.003 | 3.091 | 3.045 | 2.360 | 3.174 | 2.411 | 85- 90  | 20.44   | 45286 |
| 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:

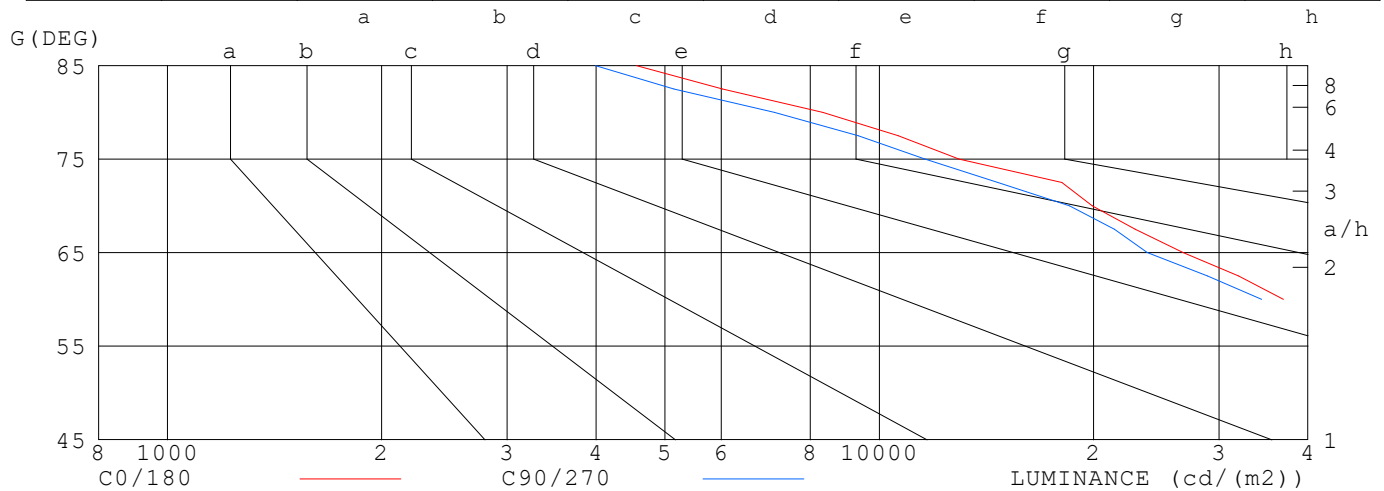
## LUMINANCE LIMITATION CURVES

Report number:

|                                    |                         |             |
|------------------------------------|-------------------------|-------------|
| MANUFACTURER: ILUMEN GMBH          | Address:                |             |
| NAME: Klose                        | TYPE: IL-FL19-N30040-60 | WEIGHT:     |
| SPECIFICATION: 2835LED、4000K、60DEG | 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                | 4557   | 3994    |
| 80                | 8324   | 7122    |
| 75                | 12942  | 11597   |
| 70                | 19911  | 18498   |
| 65                | 26714  | 23807   |
| 60                | 36952  | 34438   |
| 55                | 101741 | 110308  |
| 50                | 156256 | 163111  |
| 45                | 180675 | 186791  |

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

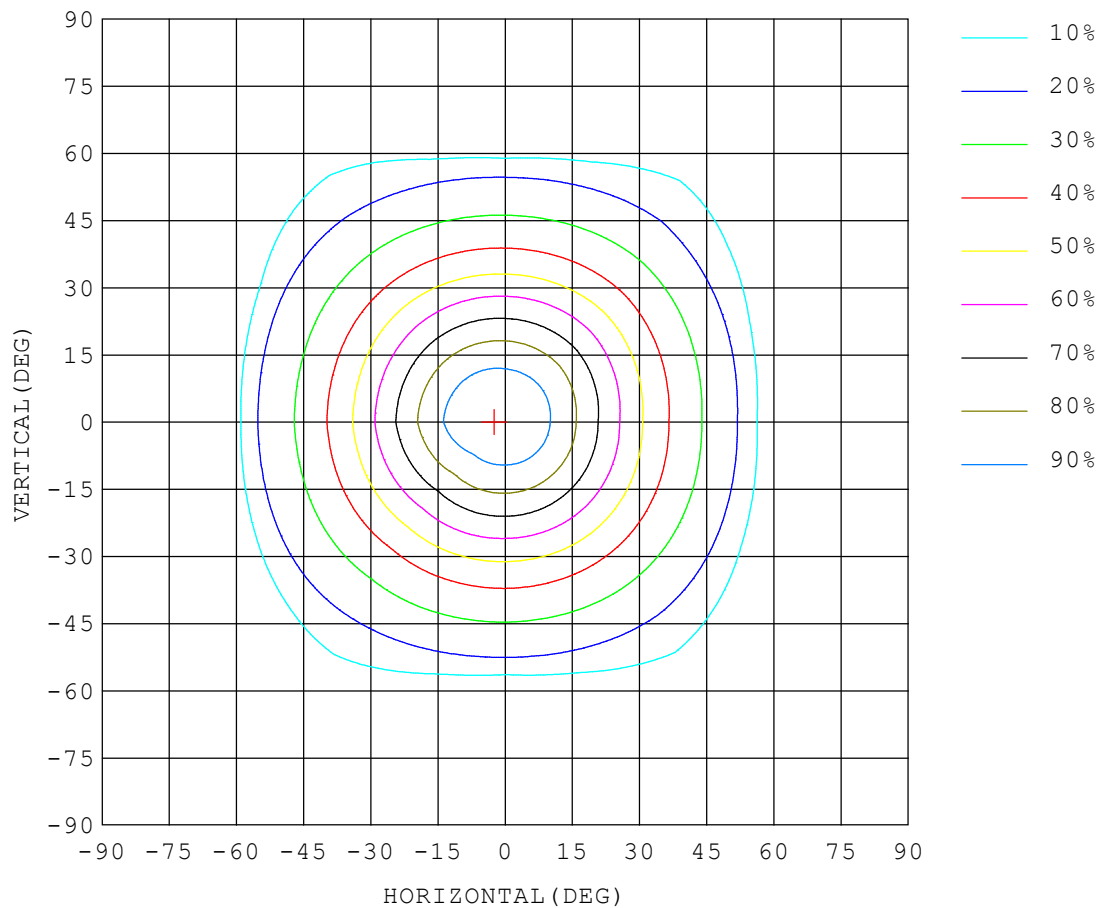
Test Set: 5.0 deg/s C-Gamma (TYPE C)  
 Humidity: 65.0%  
 Test Distance: 10.000 m  
 Remarks:

## ISOCANDELA DIAGRAM

Report number:

|                                    |                         |             |
|------------------------------------|-------------------------|-------------|
| MANUFACTURER: ILUMEN GMBH          | Address:                |             |
| NAME: Klose                        | TYPE: IL-FL19-N30040-60 | WEIGHT:     |
| SPECIFICATION: 2835LED、4000K、60DEG | DIMENSION:              | SERIAL No.: |

UNIT: cd



Test System:  
Temperature: 25.3 DEG  
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Humidity: 65.0%  
Test Distance: 10.000 m  
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