

Light efficiency:



Light quality:



Color temperature:

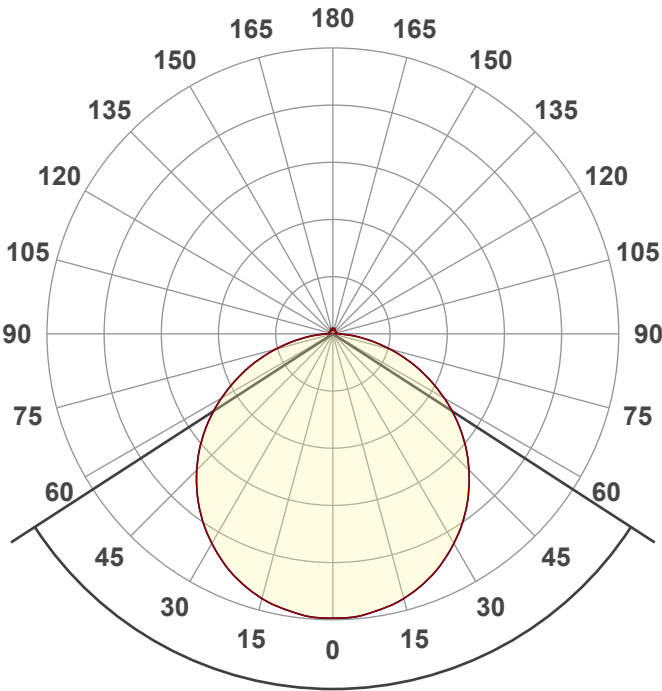
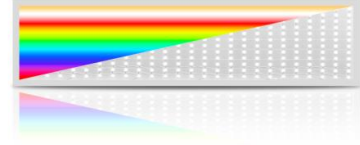


Output: 257 lm

Peak: 84,8 cd

Power: 7,1 W

PF: 0,68



Tracking number: [VT240930-009767](https://www.visosystems.com/VT240930-009767)

Product name:

**804398-ROOD**

Item number:

**804398-ROOD**

Date and time:

**30-9-2024 14:36:07**

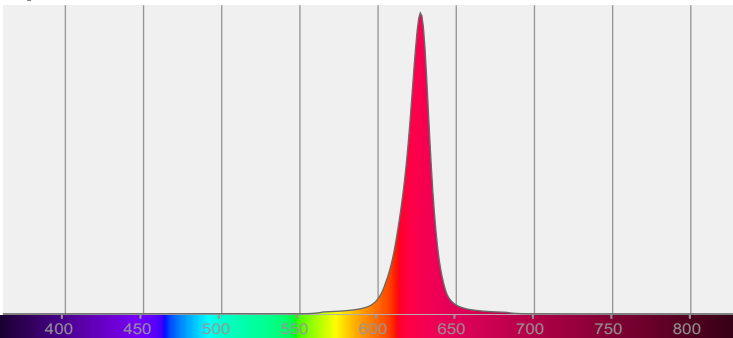
Description:

**BACK-LIT LED PANEEL | DOVER |  
120x30CM | RGB+CCT | 40W**

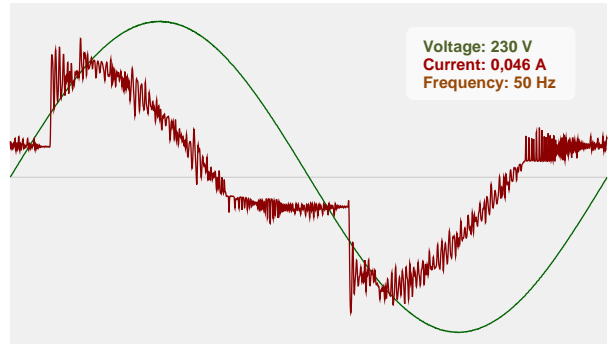


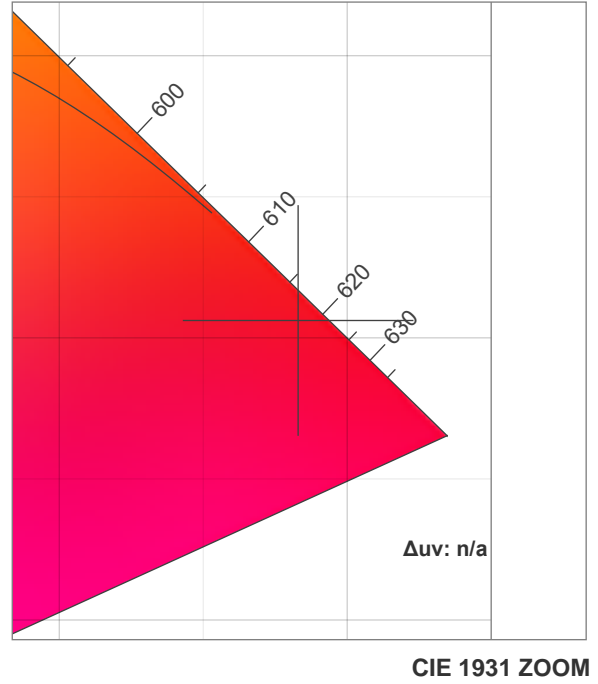
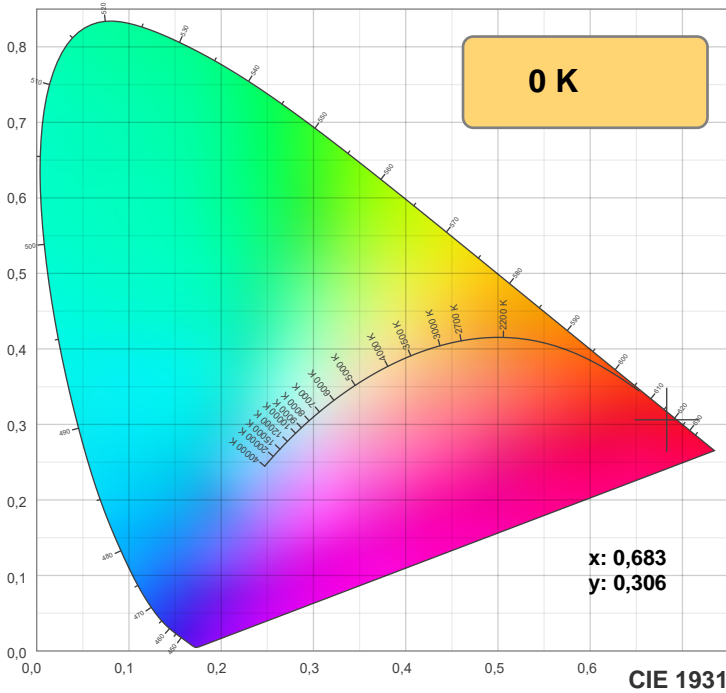
CIE 1931  
x: 0,683  
y: 0,306

Spectra



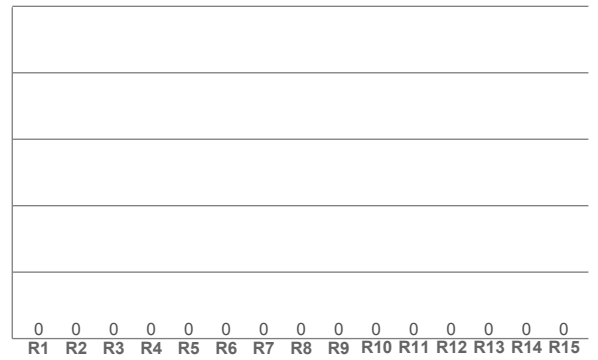
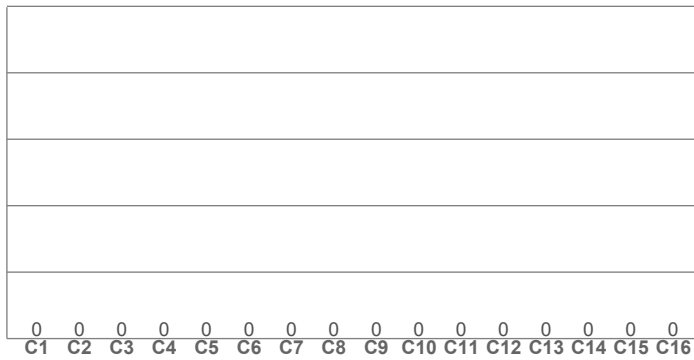
Power





TM-30: 0,0

CRI: 0,0 (R1-R8)



CRI R values, only R1-R8 are used to calculate final CRI value

| R1  | R2  | R3  | R4  | R5  | R6  | R7  | R8  | R9  | R10 | R11 | R12 | R13 | R14 | R15 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |

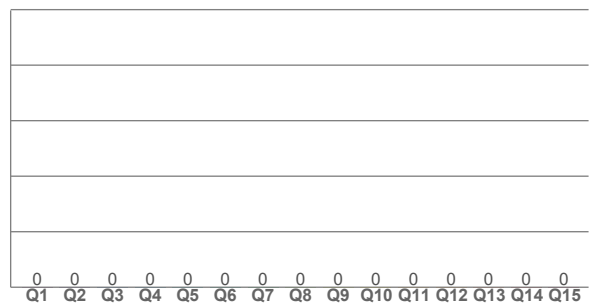
TM30 C values, 16 binned values out of total of 99 C values

| C1  | C2  | C3  | C4  | C5  | C6  | C7  | C8  | C9  | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |

CQS Q values

| Q1  | Q2  | Q3  | Q4  | Q5  | Q6  | Q7  | Q8  | Q9  | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |

CQS: 0,0



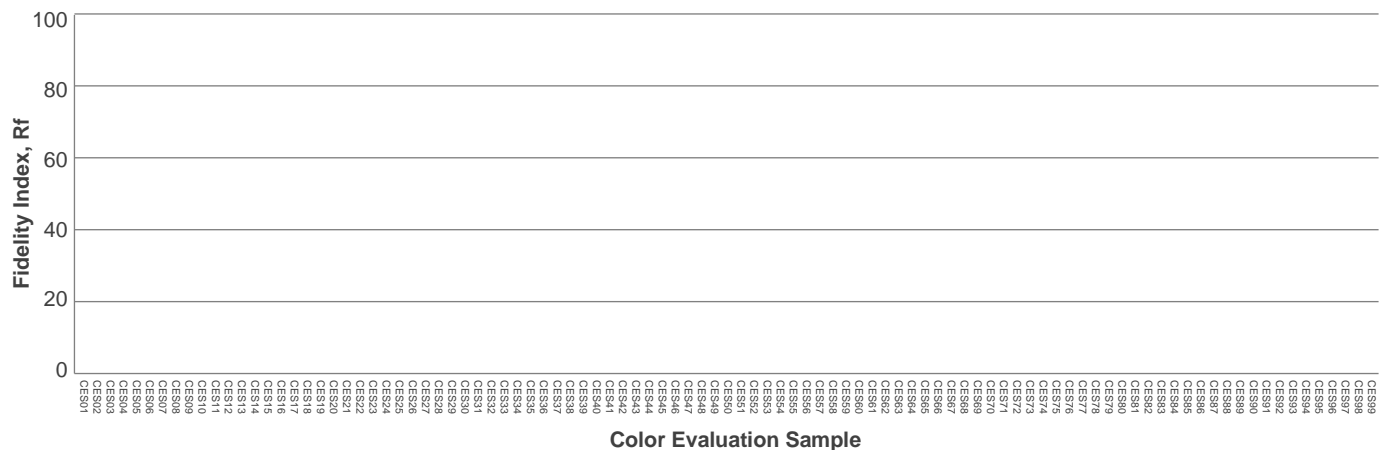
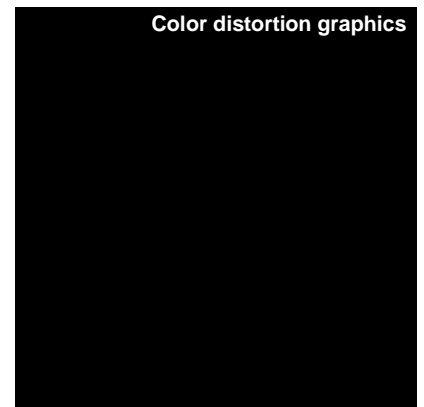
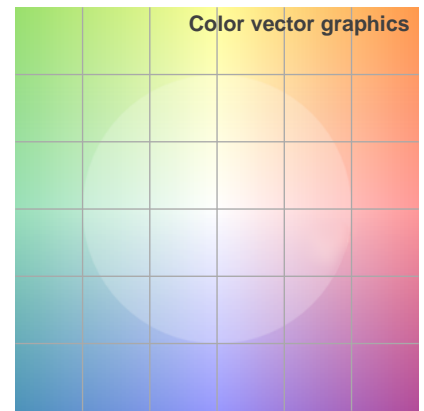
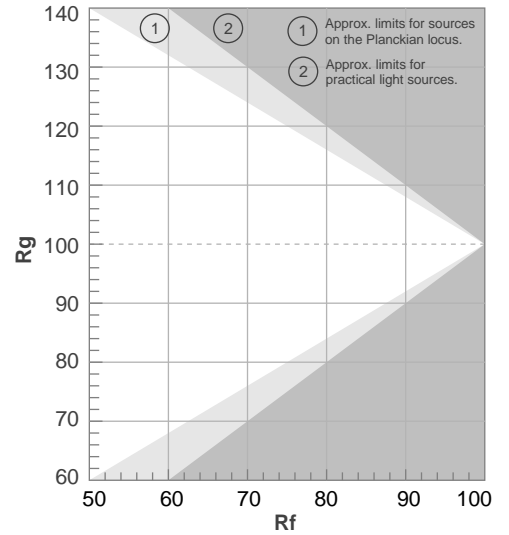
Color parameters

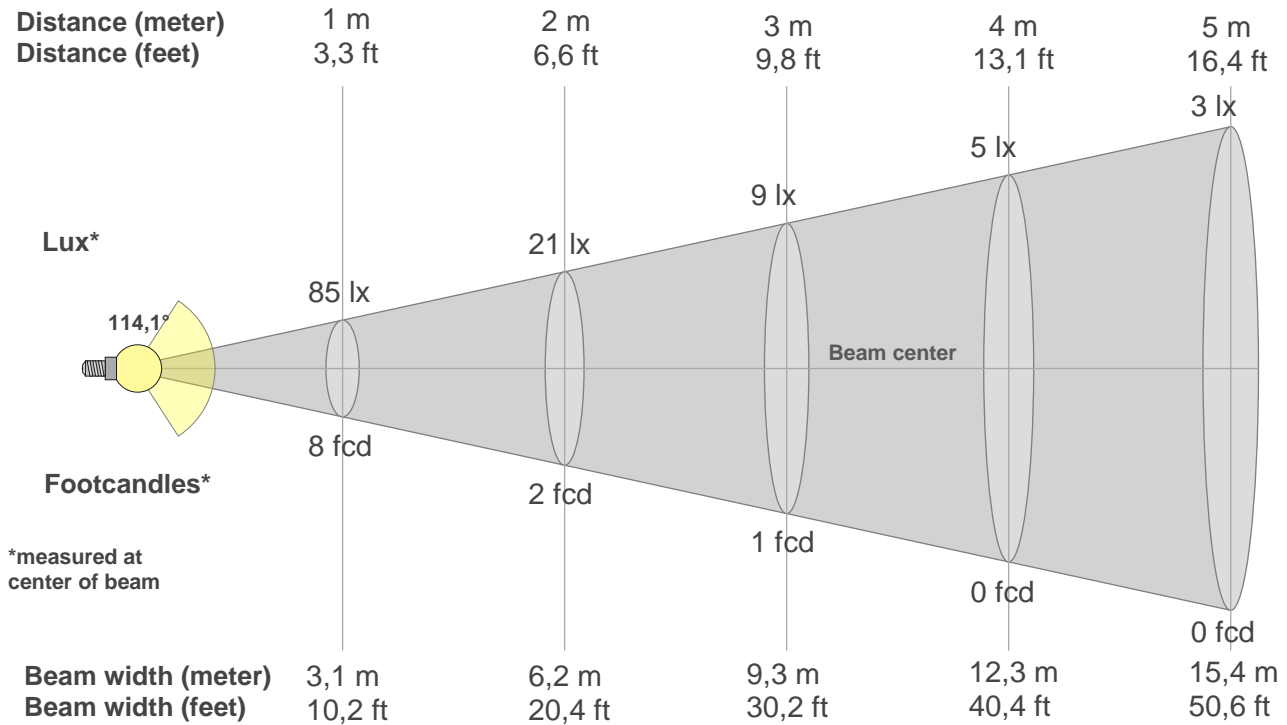
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Color coordinate cie 1931 | Color coordinate cie 1931 | Color coordinate | Color coordinate | Color diviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|------------------|------------------|---------------------------------|
| CCT               | CRI                   | CRI R9        | TM30 Rf        | TM30 Rg     | CQS                 | x                         | y                         | u                | v                | Δuv                             |
| 0 K               | 0,0                   | 0,0           | 0,0            | 0,0         | 0,0                 | 0,683                     | 0,306                     | 0,515            | 0,346            | n/a                             |

**Rf 0,0**  
Fidelity index Rf

**Rg 0,0**  
Gamut index Rg

| Hue Bin | R <sub>f</sub> | Shifts (%) |     |
|---------|----------------|------------|-----|
|         |                | Chroma     | Hue |
| 1       | 0              | 0%         | 0%  |
| 2       | 0              | 0%         | 0%  |
| 3       | 0              | 0%         | 0%  |
| 4       | 0              | 0%         | 0%  |
| 5       | 0              | 0%         | 0%  |
| 6       | 0              | 0%         | 0%  |
| 7       | 0              | 0%         | 0%  |
| 8       | 0              | 0%         | 0%  |
| 9       | 0              | 0%         | 0%  |
| 10      | 0              | 0%         | 0%  |
| 11      | 0              | 0%         | 0%  |
| 12      | 0              | 0%         | 0%  |
| 13      | 0              | 0%         | 0%  |
| 14      | 0              | 0%         | 0%  |
| 15      | 0              | 0%         | 0%  |
| 16      | 0              | 0%         | 0%  |





**Beam intensities from 1-20m**

| 1m     | 2m    | 3m     | 4m     | 5m     | 6m     | 7m     | 8m     | 9m     | 10m    | 11m    | 12m    | 13m    | 14m    | 15m    | 16m    | 17m    | 18m    | 19m    | 20m    |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3,3ft  | 6,6ft | 9,8ft  | 13,1ft | 16,4ft | 19,7ft | 23ft   | 26,2ft | 29,5ft | 32,8ft | 36,1ft | 39,4ft | 42,7ft | 45,9ft | 49,2ft | 52,5ft | 55,8ft | 59,1ft | 62,3ft | 65,6ft |
| 85lx   | 21lx  | 9lx    | 5lx    | 3lx    | 2lx    | 2lx    | 1lx    | 1lx    | 1lx    | 1lx    | 1lx    | 1lx    | 0lx    | 0lx    | 0lx    | 0lx    | 0lx    | 0lx    | 0lx    |
| 7,9fcd | 2fcd  | 0,9fcd | 0,5fcd | 0,3fcd | 0,2fcd | 0,2fcd | 0,1fcd | 0,1fcd | 0,1fcd | 0,1fcd | 0,1fcd | 0fcd   | 0fcd   | 0fcd   | 0fcd   | 0fcd   | 0fcd   | 0fcd   | 0fcd   |

**Intensities in 0° c-plane**

| 0°   | 5°   | 10°  | 15°  | 20°  | 25°  | 30°  | 35°  | 40°  | 45°  | 50°  | 55°  | 60°  | 65°  | 70°  | 75°  | 80°  | 85° | 90° | 95° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|
| 84,8 | 84,5 | 83,4 | 81,7 | 79,2 | 76,1 | 72,2 | 67,8 | 62,9 | 57,4 | 51,5 | 45,2 | 38,4 | 31,5 | 24,6 | 17,7 | 11,3 | 5,9 | 2,1 | 1,0 |
| 100% | 100% | 98%  | 96%  | 93%  | 90%  | 85%  | 80%  | 74%  | 68%  | 61%  | 53%  | 45%  | 37%  | 29%  | 21%  | 13%  | 7%  | 2%  | 1%  |

**Intensities in 90° c-plane**

| 0°   | 5°   | 10°  | 15°  | 20°  | 25°  | 30°  | 35°  | 40°  | 45°  | 50°  | 55°  | 60°  | 65°  | 70°  | 75°  | 80°  | 85° | 90° | 95° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|
| 84,8 | 84,5 | 83,4 | 81,7 | 79,2 | 76,1 | 72,2 | 67,8 | 62,9 | 57,4 | 51,5 | 45,2 | 38,4 | 31,5 | 24,6 | 17,7 | 11,3 | 5,9 | 2,1 | 1,0 |
| 100% | 100% | 98%  | 96%  | 93%  | 90%  | 85%  | 80%  | 74%  | 68%  | 61%  | 53%  | 45%  | 37%  | 29%  | 21%  | 13%  | 7%  | 2%  | 1%  |

**Intensities in 180° c-plane**

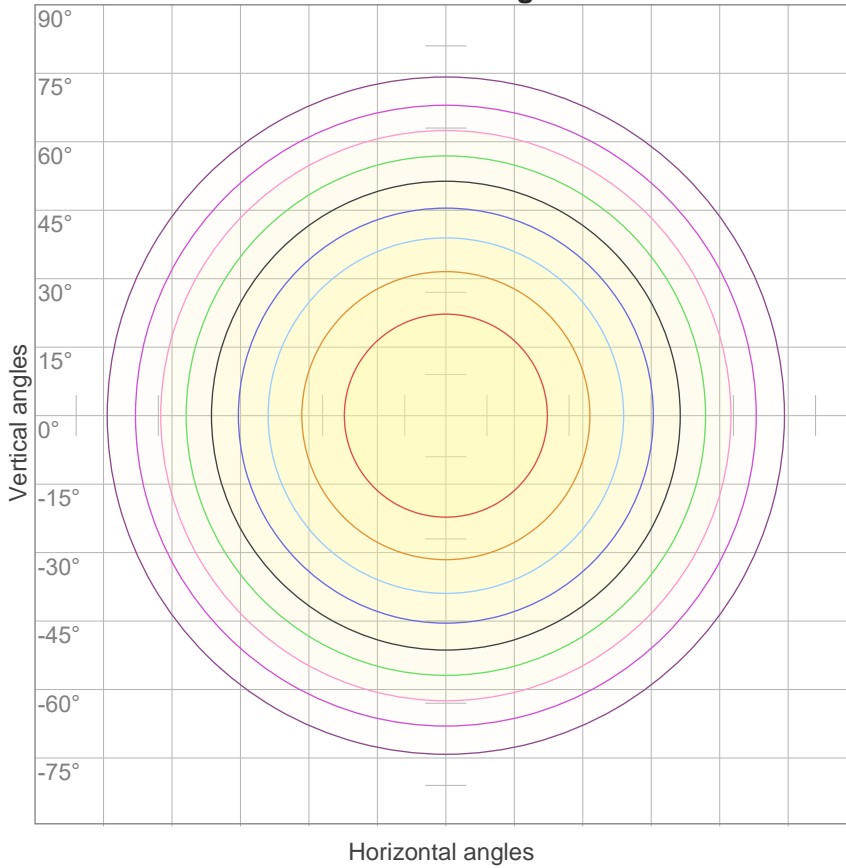
| 0°   | 5°   | 10°  | 15°  | 20°  | 25°  | 30°  | 35°  | 40°  | 45°  | 50°  | 55°  | 60°  | 65°  | 70°  | 75°  | 80°  | 85° | 90° | 95° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|
| 84,8 | 84,5 | 83,4 | 81,7 | 79,2 | 76,1 | 72,2 | 67,8 | 62,9 | 57,4 | 51,5 | 45,2 | 38,4 | 31,5 | 24,6 | 17,7 | 11,3 | 5,9 | 2,1 | 1,0 |
| 100% | 100% | 98%  | 96%  | 93%  | 90%  | 85%  | 80%  | 74%  | 68%  | 61%  | 53%  | 45%  | 37%  | 29%  | 21%  | 13%  | 7%  | 2%  | 1%  |

**Intensities in 270° c-plane**

| 0°   | 5°   | 10°  | 15°  | 20°  | 25°  | 30°  | 35°  | 40°  | 45°  | 50°  | 55°  | 60°  | 65°  | 70°  | 75°  | 80°  | 85° | 90° | 95° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|
| 84,8 | 84,5 | 83,4 | 81,7 | 79,2 | 76,1 | 72,2 | 67,8 | 62,9 | 57,4 | 51,5 | 45,2 | 38,4 | 31,5 | 24,6 | 17,7 | 11,3 | 5,9 | 2,1 | 1,0 |
| 100% | 100% | 98%  | 96%  | 93%  | 90%  | 85%  | 80%  | 74%  | 68%  | 61%  | 53%  | 45%  | 37%  | 29%  | 21%  | 13%  | 7%  | 2%  | 1%  |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| <b>114,1°</b>  | <b>164,9°</b>   | <b>179,8°</b>     | <b>75,3%</b>                 | <b>51,0%</b>                |

**iso-candela diagram**



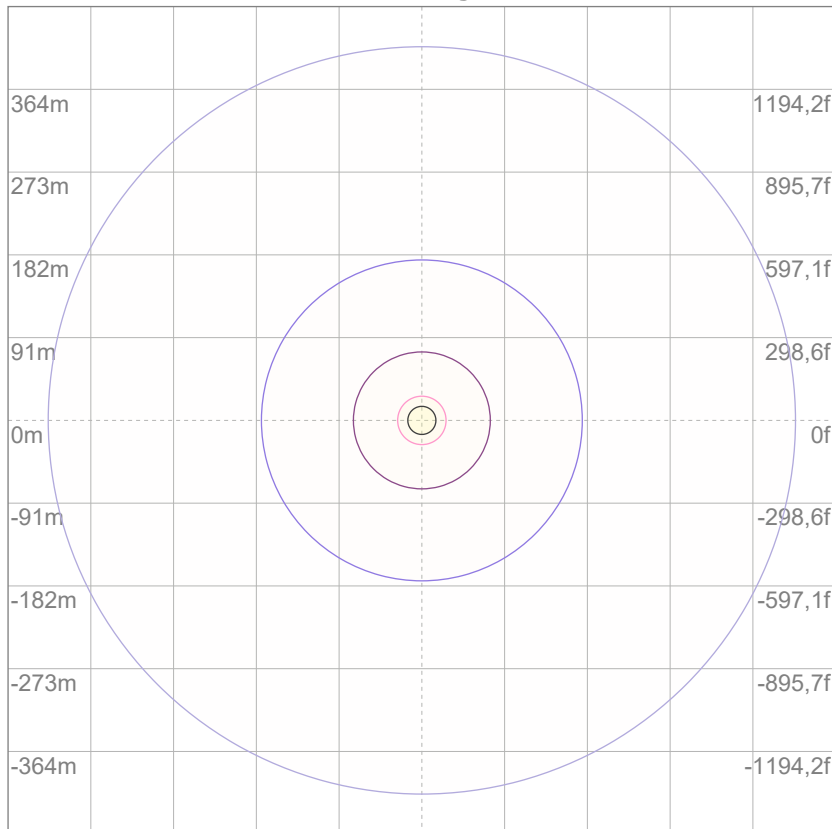
|     |       |
|-----|-------|
| 10% | 8 cd  |
| 20% | 17 cd |
| 30% | 25 cd |
| 40% | 34 cd |
| 50% | 42 cd |
| 60% | 51 cd |
| 70% | 59 cd |
| 80% | 68 cd |
| 90% | 76 cd |

Conditions:

Number of c-planes: 12

Candela at center: 85 cd

**iso-lux diagram**



Mounting height: 10 meters (33 feet)

|     |          |
|-----|----------|
| 3%  | 25,4m lx |
| 5%  | 42,4m lx |
| 10% | 84,8m lx |
| 30% | 0,254 lx |
| 50% | 0,424 lx |

Conditions:

Number of c-planes: 12

Lux at center: 0,848 lx

*Lux distribution on a surface when lamp is mounted at 10 meters from the surface.*

**Glare evaluation according to UGR**

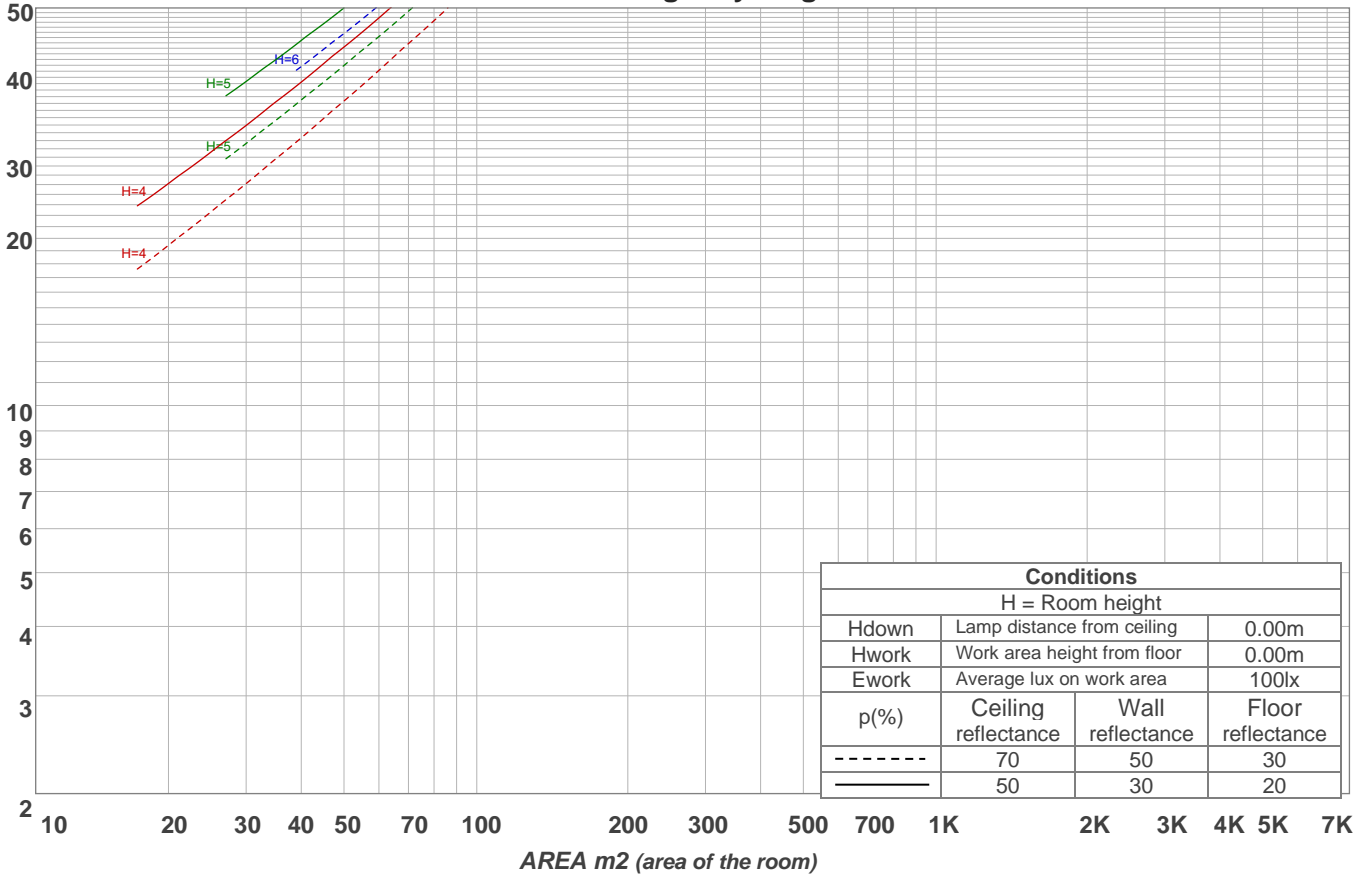
|   |  |      |      |      |      |   |      |      |      |      |      |
|---|--|------|------|------|------|---|------|------|------|------|------|
| p Ceiling   | 70   | 70   | 50   | 50   | 30   | 70                                      | 70   | 50   | 50   | 30   |      |
| p Walls   | 50   | 30   | 50   | 30   | 30   | 50                                      | 30   | 50   | 30   | 30   |      |
| p Floor   | 20   | 20   | 20   | 20   | 20   | 20                                      | 20   | 20   | 20   | 20   |      |
| Room size<br>X Y  | Viewing direction at right angles to lamp axis |      |      |      |      | Viewing direction parallel to lamp axis |      |      |      |      |      |
| 2H  | 2H   | 8,0  | 9,2  | 8,3  | 9,6  | 9,9                                     | 7,9  | 9,1  | 8,2  | 9,5  | 9,8  |
|   | 3H   | 9,5  | 10,8 | 10,0 | 11,1 | 11,4                                    | 9,4  | 10,7 | 9,9  | 11,0 | 11,2 |
|   | 4H   | 10,2 | 11,4 | 10,7 | 11,7 | 12,1                                    | 10,0 | 11,2 | 10,5 | 11,6 | 11,9 |
|   | 6H   | 10,8 | 11,9 | 11,2 | 12,2 | 12,6                                    | 10,6 | 11,6 | 11,0 | 12,0 | 12,4 |
|   | 8H   | 11,0 | 12,0 | 11,4 | 12,4 | 12,8                                    | 10,8 | 11,8 | 11,1 | 12,1 | 12,6 |
| 12H   | 11,1   | 12,1 | 11,6 | 12,5 | 13,0 | 10,9                                    | 11,9 | 11,3 | 12,2 | 12,7 |      |
| 4H  | 2H   | 8,6  | 9,8  | 9,1  | 10,1 | 10,4                                    | 8,5  | 9,7  | 9,0  | 10,0 | 10,4 |
|   | 3H   | 10,5 | 11,5 | 10,9 | 11,8 | 12,3                                    | 10,3 | 11,3 | 10,7 | 11,7 | 12,2 |
|   | 4H   | 11,2 | 12,1 | 11,7 | 12,5 | 13,1                                    | 11,0 | 12,0 | 11,5 | 12,4 | 13,0 |
|   | 6H   | 11,8 | 12,7 | 12,4 | 13,1 | 13,5                                    | 11,6 | 12,5 | 12,2 | 12,9 | 13,3 |
|   | 8H   | 12,1 | 12,9 | 12,6 | 13,3 | 13,7                                    | 11,9 | 12,6 | 12,4 | 13,1 | 13,5 |
| 12H   | 12,3   | 12,9 | 12,8 | 13,4 | 13,9 | 12,0                                    | 12,7 | 12,5 | 13,1 | 13,7 |      |
| 8H  | 4H   | 11,5 | 12,3 | 12,0 | 12,7 | 13,1                                    | 11,3 | 12,1 | 11,9 | 12,5 | 13,0 |
|   | 6H   | 12,3 | 12,9 | 12,8 | 13,4 | 14,0                                    | 12,1 | 12,7 | 12,6 | 13,2 | 13,8 |
|   | 8H   | 12,7 | 13,2 | 13,2 | 13,7 | 14,4                                    | 12,4 | 13,0 | 13,0 | 13,5 | 14,2 |
|   | 12H  | 12,9 | 13,4 | 13,6 | 13,9 | 14,6                                    | 12,7 | 13,1 | 13,3 | 13,7 | 14,3 |
| 12H   | 4H   | 11,5 | 12,1 | 12,0 | 12,6 | 13,1                                    | 11,3 | 12,0 | 11,9 | 12,5 | 13,0 |
|   | 6H   | 12,4 | 12,9 | 12,9 | 13,5 | 14,1                                    | 12,2 | 12,7 | 12,7 | 13,3 | 14,0 |
|   | 8H   | 12,8 | 13,2 | 13,4 | 13,8 | 14,4                                    | 12,6 | 13,0 | 13,2 | 13,5 | 14,2 |
| Variation of the observer position for the luminaire distance S               |  |      |      |      |      |   |      |      |      |      |      |
| S = 1.0H  | 0,1 / -0,1                                     |      |      |      |      | 0,1 / -0,1                              |      |      |      |      |      |
| S = 1.5H  | 0,1 / -0,2                                     |      |      |      |      | 0,1 / -0,2                              |      |      |      |      |      |
| S = 2.0H  | 0,4 / -0,4                                     |      |      |      |      | 0,4 / -0,4                              |      |      |      |      |      |
| CIE 117-1995. Corrected glare indices referring to 257 lm total luminous flux |  |      |      |      |      |   |      |      |      |      |      |

**Coefficients of Utilization**

| Ceiling reflectance | 80  |     |     |     | 70  |     |     |     | 50  |     |     | 30  |     |     | 10  |     |     | 0  |
|---------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| Wall reflectance    | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 0  |
| Floor reflectance   | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 0  |
| <b>RCR</b>          | <b>(RCR: Room Cavity Ratio)</b>   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|                     | Room Values are expressed as percentage of Lumens delivered to the task surface |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
| 0                   | 118   | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 110 | 110 | 110 | 104 | 104 | 104 | 100 | 100 | 100 | 97 |
| 1                   | 108   | 103 | 98  | 94  | 105 | 100 | 96  | 93  | 95  | 92  | 89  | 91  | 88  | 86  | 87  | 85  | 83  | 81 |
| 2                   | 98  | 89  | 82  | 76  | 95  | 87  | 81  | 75  | 83  | 78  | 73  | 79  | 75  | 71  | 76  | 72  | 69  | 67 |
| 3                   | 89  | 78  | 70  | 63  | 86  | 76  | 69  | 63  | 73  | 66  | 61  | 70  | 64  | 60  | 67  | 62  | 58  | 56 |
| 4                   | 81  | 69  | 60  | 53  | 79  | 68  | 59  | 53  | 65  | 58  | 52  | 62  | 56  | 51  | 60  | 54  | 50  | 48 |
| 5                   | 75  | 62  | 53  | 46  | 72  | 60  | 52  | 45  | 58  | 50  | 45  | 56  | 49  | 44  | 54  | 48  | 43  | 41 |
| 6                   | 69  | 55  | 46  | 40  | 67  | 54  | 46  | 40  | 52  | 45  | 39  | 50  | 44  | 39  | 48  | 43  | 38  | 36 |
| 7                   | 64  | 50  | 41  | 35  | 62  | 49  | 41  | 35  | 47  | 40  | 35  | 46  | 39  | 34  | 44  | 38  | 34  | 32 |
| 8                   | 59  | 46  | 37  | 31  | 58  | 45  | 37  | 31  | 43  | 36  | 31  | 42  | 35  | 30  | 41  | 35  | 30  | 28 |
| 9                   | 56  | 42  | 34  | 28  | 54  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 32  | 27  | 37  | 31  | 27  | 25 |
| 10                  | 52  | 39  | 31  | 25  | 51  | 38  | 30  | 25  | 37  | 30  | 25  | 36  | 29  | 25  | 35  | 29  | 25  | 23 |

LAMPS (number of lamps)

**Luminaire budgetary diagram**



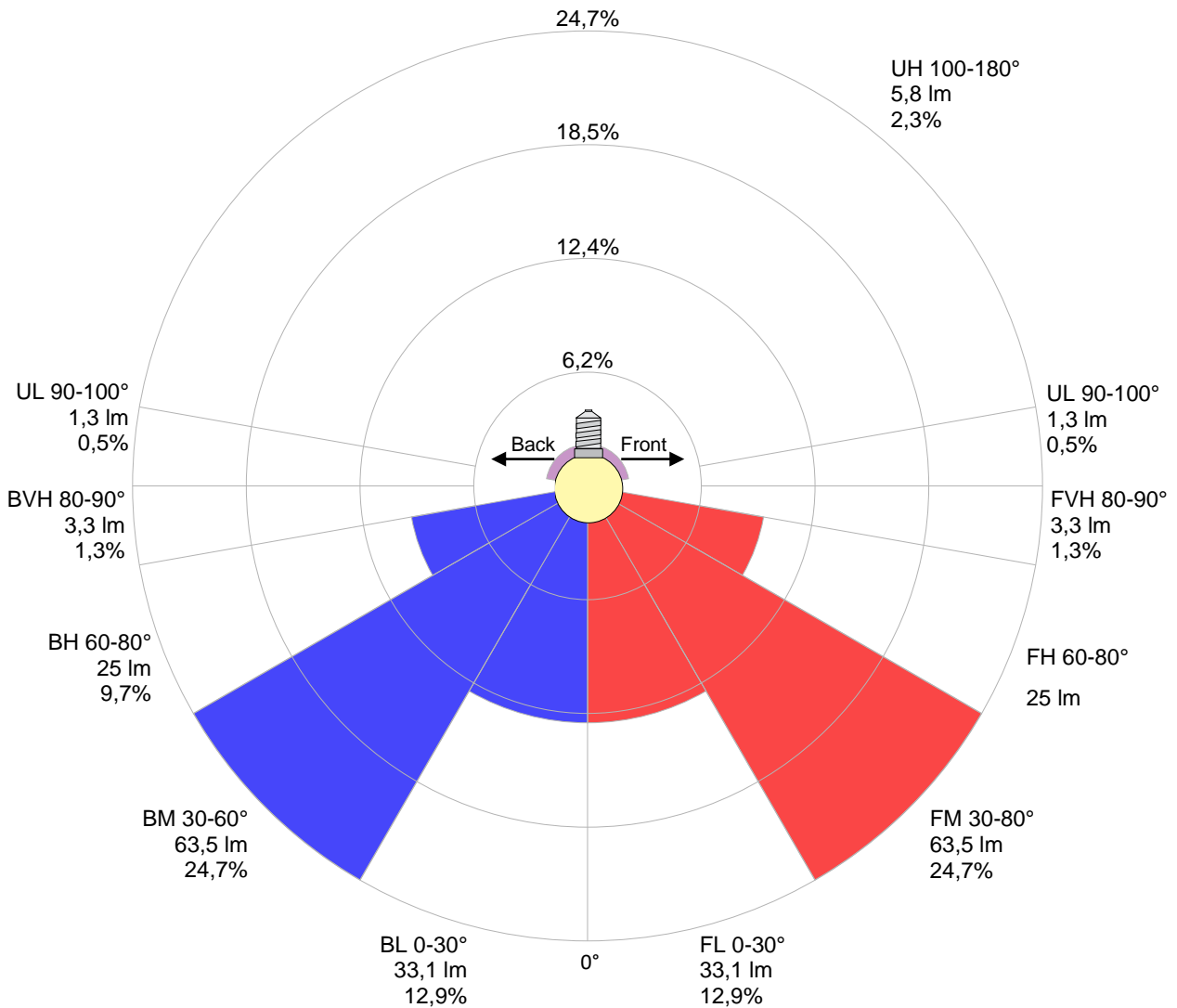
**Zonal Lumen Summary**

|           |           |           |           |           |           |           |           |           |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0°-10°    | 10°-20°   | 20°-30°   | 30°-40°   | 40°-50°   | 50°-60°   | 60°-70°   | 70°-80°   | 80°-90°   |
| {LUM0-10} | 23,1 lm   | 35,1 lm   | 42,4 lm   | 44,3 lm   | 40,4 lm   | 31,2 lm   | 18,7 lm   | 6,51 lm   |
| 90°-100°  | 100°-110° | 110°-120° | 120°-130° | 130°-140° | 140°-150° | 150°-160° | 160°-170° | 170°-180° |
| 1,27 lm   | 1,20 lm   | 1,07 lm   | 0,989 lm  | 0,830 lm  | 0,694 lm  | 0,578 lm  | 0,331 lm  | 0,121 lm  |

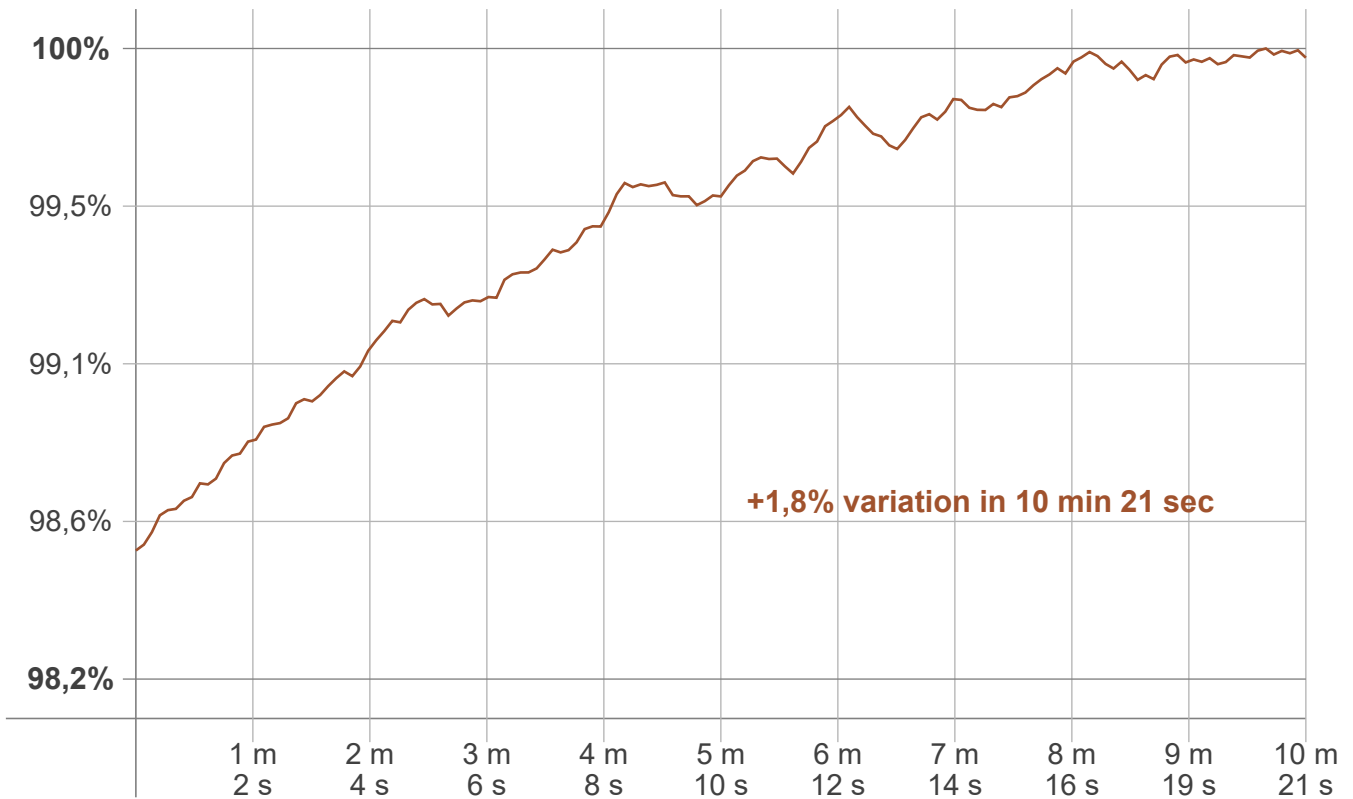
LCS table

| BUG rating:          | B0 U1 G0 |          |
|----------------------|----------|----------|
| <b>Forward light</b> | Lumens   | Lumens % |
| Low(0-30):           | 33,1     | 12,9%    |
| Medium(30-60):       | 63,5     | 24,7%    |
| High(60-80):         | 25       | 9,7%     |
| Very high(80-90):    | 3,3      | 1,3%     |
| <b>Back light</b>    |          |          |
| Low(0-30):           | 33,1     | 12,9%    |
| Medium(30-60):       | 63,5     | 24,7%    |
| High(60-80):         | 25       | 9,7%     |
| Very high(80-90):    | 3,3      | 1,3%     |
| <b>Uplight</b>       |          |          |
| Low(90-100):         | 1,3      | 0,5%     |
| High(100-180):       | 5,8      | 2,3%     |

LCS graph



**Warmup curve**



**Warmup result**

|                  |               |
|------------------|---------------|
| Warmup time:     | Not completed |
| Warmup variation | +1,8%         |

**Warmup conditions**

|                    |        |
|--------------------|--------|
| Stable period:     | 15 min |
| Stable change max: | 2,0%   |
| Minimum time:      | 15 min |

**Color temperature change**

| CCT start | CCT change | CCT end |
|-----------|------------|---------|
| 0 K       | 0 K        | 0 K     |

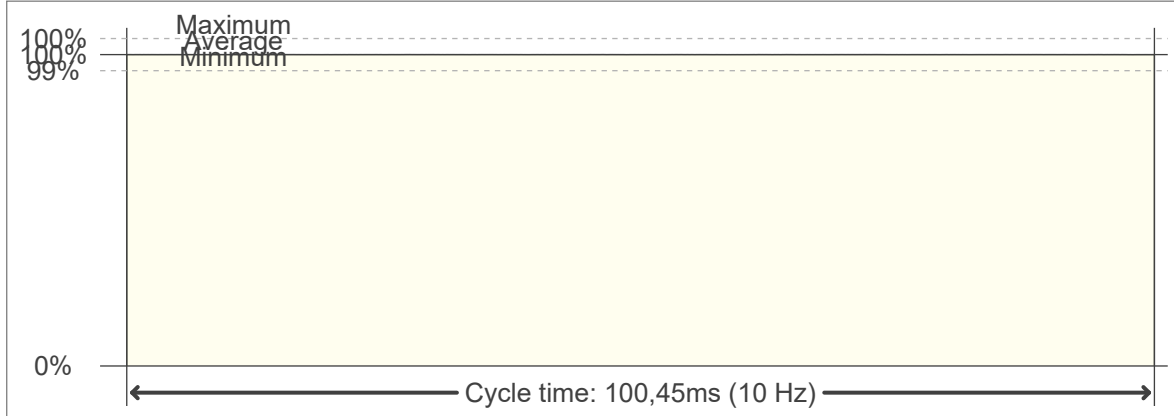
**Output change**

| Output start | Output change | Output end |
|--------------|---------------|------------|
| 253 lm       | +4 lm         | 257 lm     |

**Flicker curve (complete sampled flicker signal)**



**Flicker frame (frame of one flicker period)**



**Flicker FFT (frequency scope of flicker curve)**



**Flicker results:**

|                              |               |                      |               |
|------------------------------|---------------|----------------------|---------------|
| <b>Flicker frequency:</b>    |               | <b>9,96 Hz</b>       |               |
| <b>Flicker index:</b>        | <b>0</b>      | <b>JA8/10 40Hz</b>   | <b>0,01 %</b> |
| <b>Flicker percentage:</b>   | <b>0,03 %</b> | <b>JA8/10 90Hz</b>   | <b>0,01 %</b> |
| <b>SVM: (Visual flicker)</b> | <b>0</b>      | <b>JA8/10 200Hz</b>  | <b>0,01 %</b> |
| <b>PstLM</b>                 | <b>0</b>      | <b>JA8/10 400Hz</b>  | <b>0,02 %</b> |
| <b>Mp</b>                    | <b>0</b>      | <b>JA8/10 1000Hz</b> | <b>0,02 %</b> |

**Flicker conditions:**

|                     |                             |
|---------------------|-----------------------------|
| <b>Sample rate:</b> | <b>20000 samples/second</b> |
|---------------------|-----------------------------|