

Light efficiency:



Light quality:



Color temperature:



Output: 135 lm
Peak: 67,4 cd
Power: 5,6 W
PF: 0,86



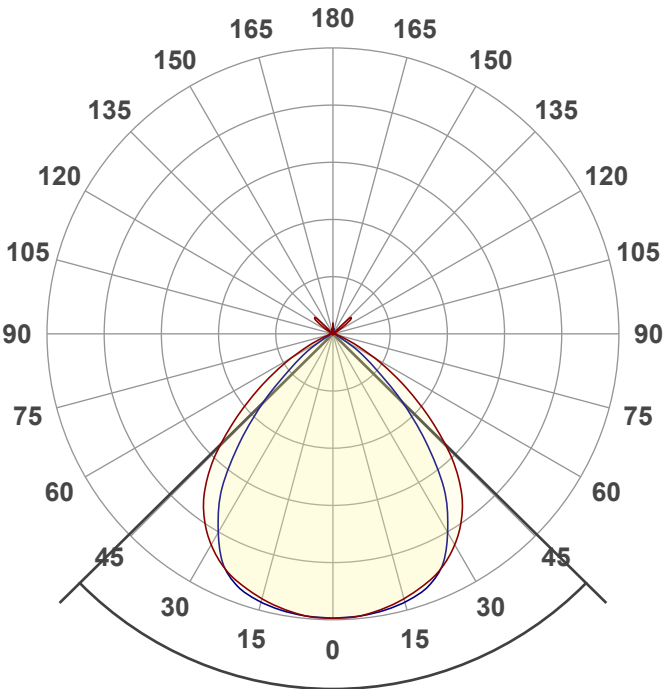
Tracking number: [VT240912-002204](https://www.visosystems.com/VT240912-002204)

Product name:
ROUND06D-G-3000K

Item number:
ROUND06D-G-3000K

Date and time:
12-9-2024 11:56:49

Description:
WANDLAMP THEBE ROND GRIJS 6W DIMBAAR

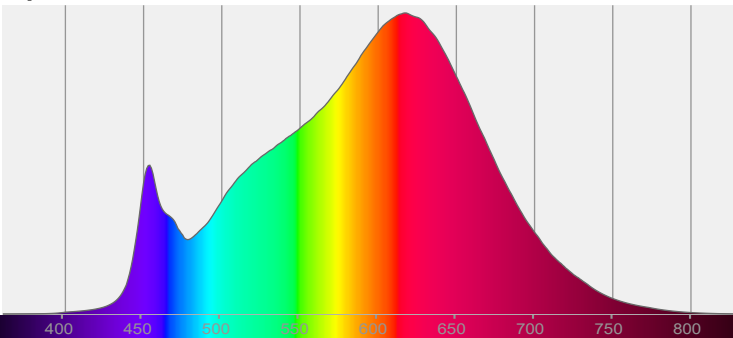


Beam angle **90,9°**

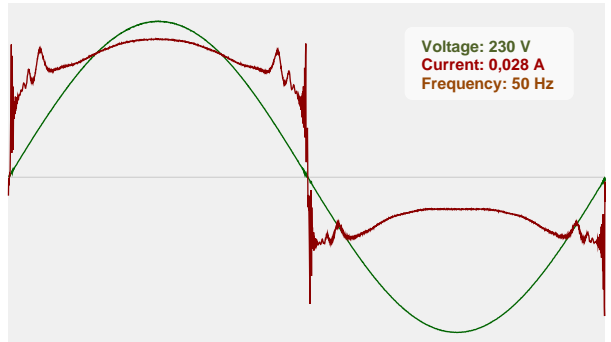


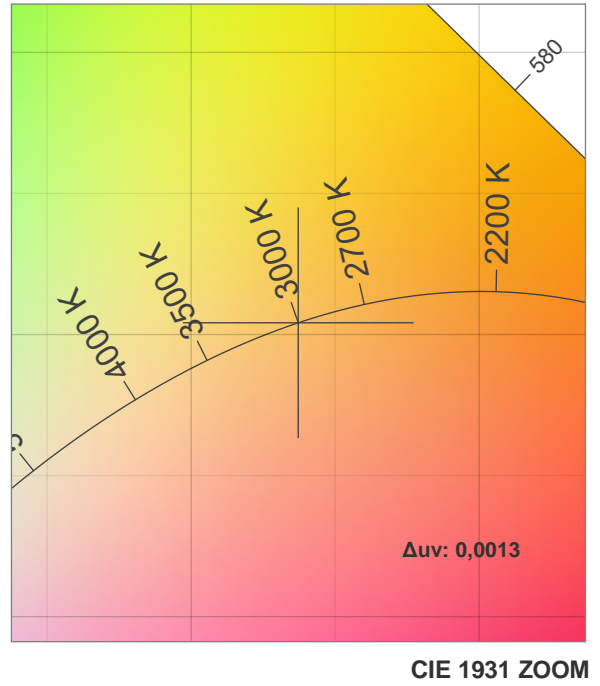
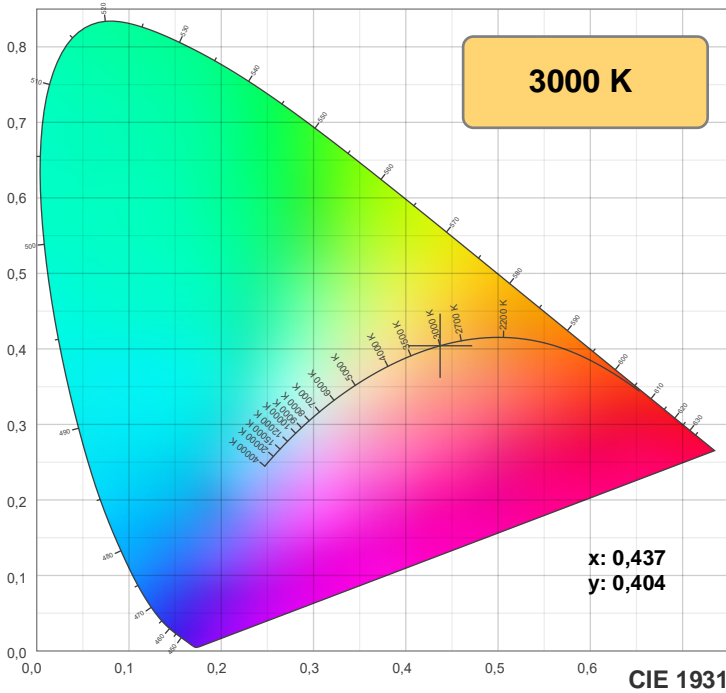
CIE 1931
x: 0,437
y: 0,404

Spectra

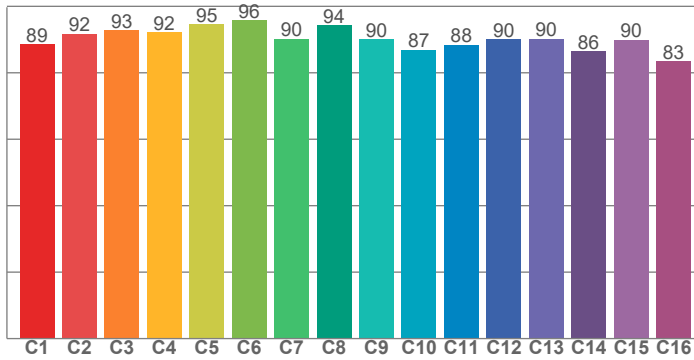


Power

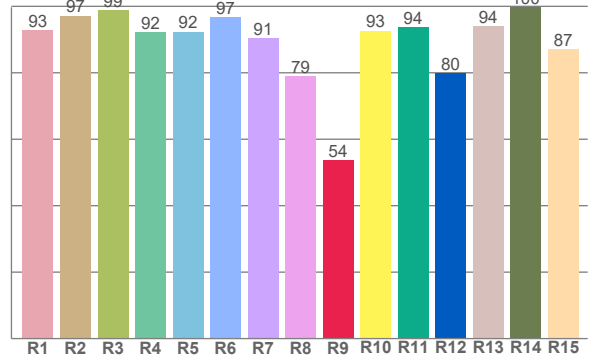




TM-30: 90,4



CRI: 92,4 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 92,7 | 97,2 | 98,8 | 92,1 | 92,4 | 96,7 | 90,5 | 79,1 | 53,6 | 92,6 | 93,8 | 79,8 | 94,1 | 99,7 | 87,1 |

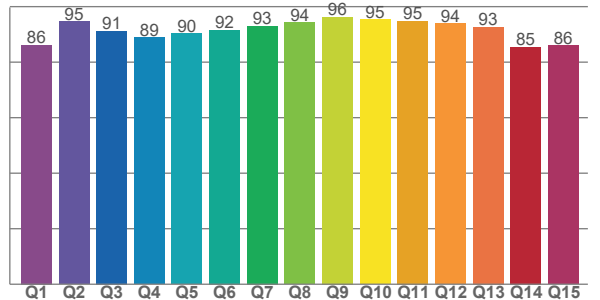
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 88,6 | 91,8 | 92,8 | 92,1 | 94,5 | 95,8 | 90,2 | 94,3 | 90,0 | 86,9 | 88,4 | 90,1 | 90,2 | 86,5 | 90,0 | 83,5 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 86,2 | 94,6 | 91,2 | 88,8 | 90,3 | 91,5 | 92,9 | 94,2 | 96,2 | 95,4 | 94,9 | 93,9 | 92,7 | 85,4 | 86,1 |

CQS: 90,8



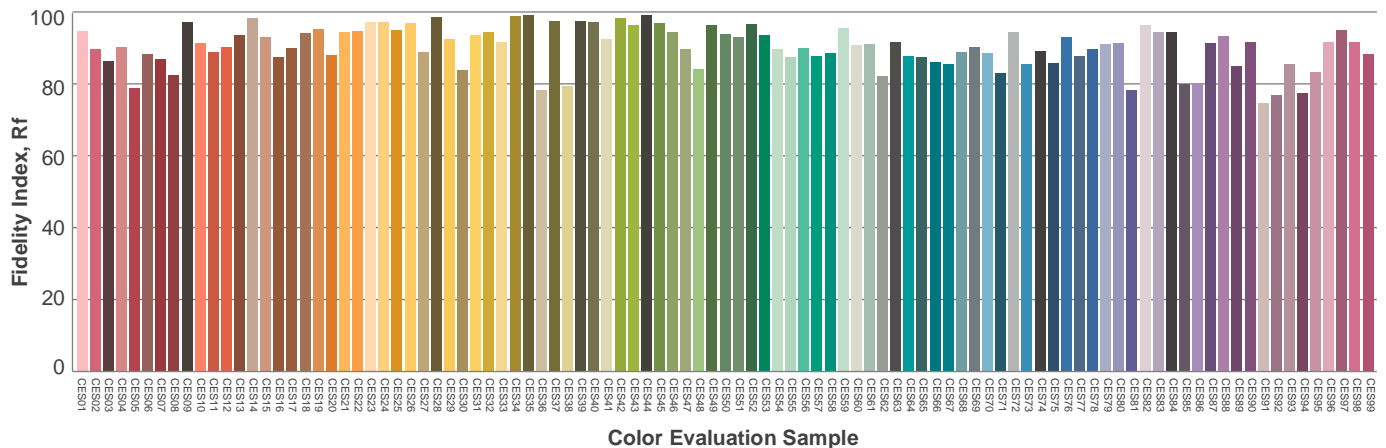
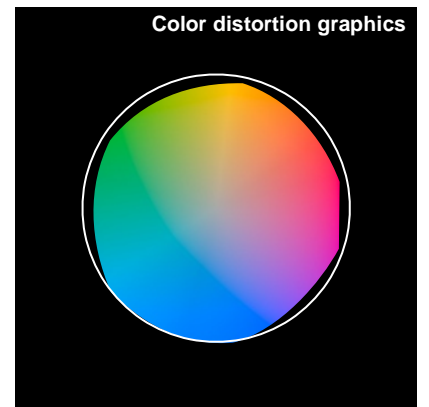
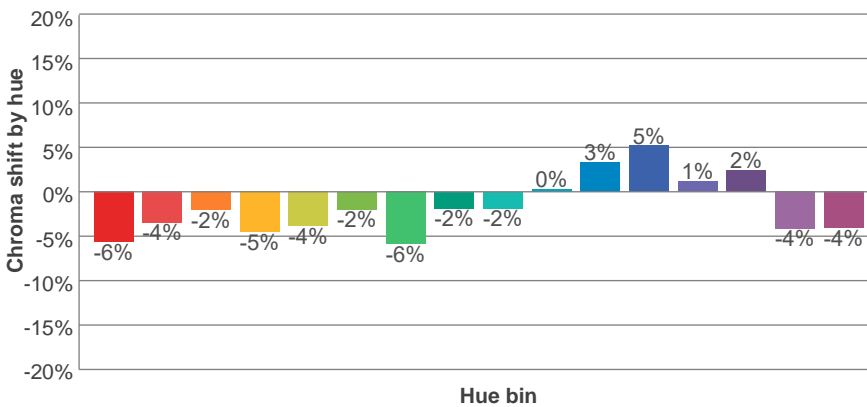
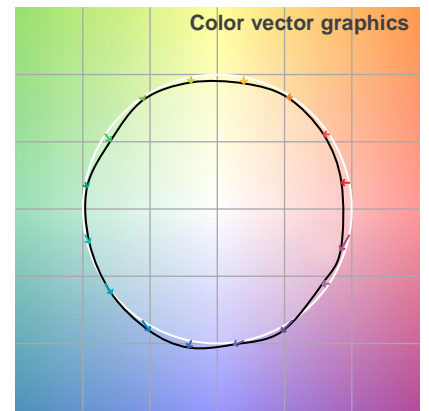
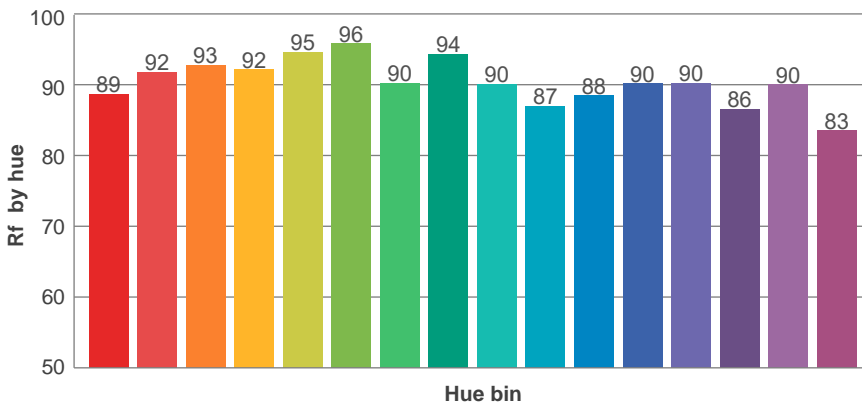
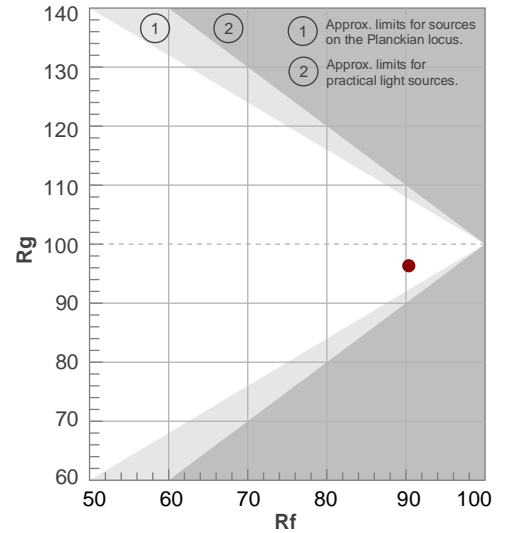
Color parameters

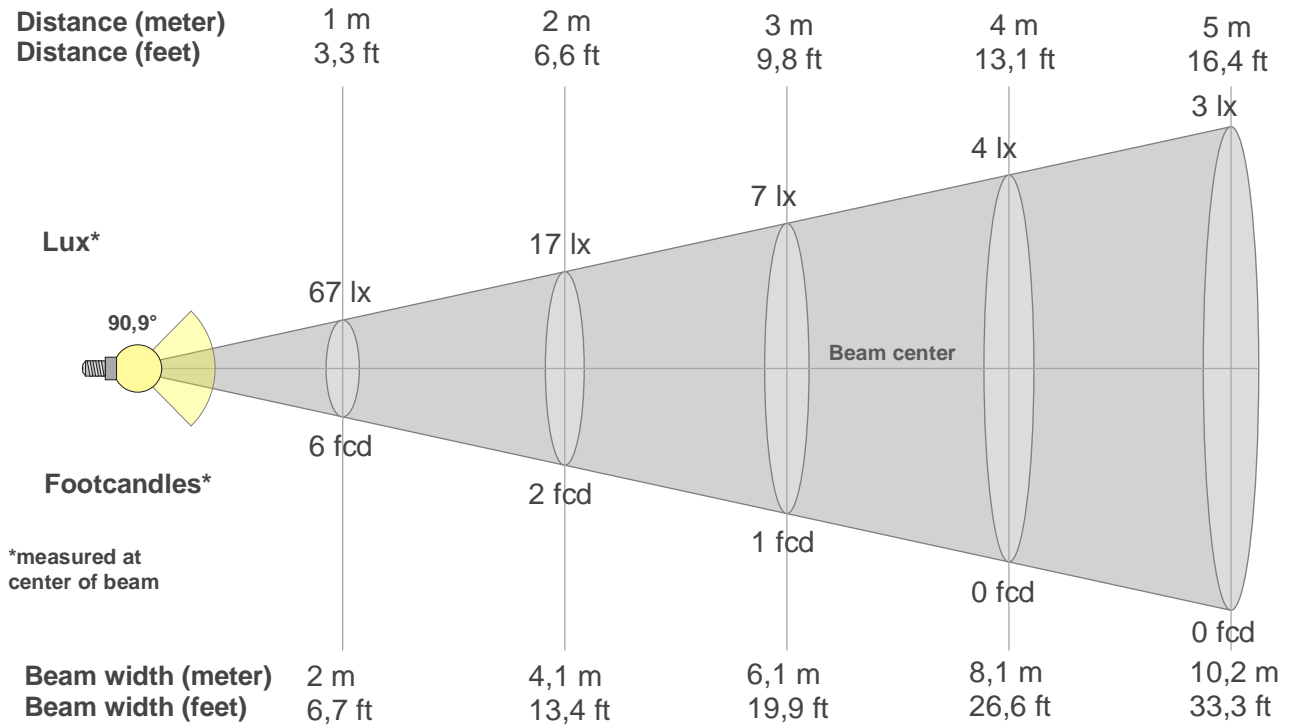
| Color temperature | Color rendering Index | Red component | Color fidelity | Color gamut | Color quality scale | Color coordinate cie 1931 | Color coordinate cie 1931 | Color coordinate | Color coordinate | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|------------------|------------------|---------------------------------|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | x | y | u | v | Δuv |
| 3000 K | 92,4 | 53,6 | 90,4 | 96,3 | 90,8 | 0,437 | 0,404 | 0,251 | 0,348 | 0,0013 |

Rf 90,4
Fidelity index Rf

Rg 96,3
Gamut index Rg

| Hue Bin | R _f | Shifts (%) | |
|---------|----------------|------------|------|
| | | Chroma | Hue |
| 1 | 89 | -6% | 1% |
| 2 | 92 | -4% | 2% |
| 3 | 93 | -2% | 3% |
| 4 | 92 | -5% | -1% |
| 5 | 95 | -4% | 1% |
| 6 | 96 | -2% | 0% |
| 7 | 90 | -6% | 2% |
| 8 | 94 | -2% | 3% |
| 9 | 90 | -2% | 6% |
| 10 | 87 | 0% | 9% |
| 11 | 88 | 3% | 8% |
| 12 | 90 | 5% | -1% |
| 13 | 90 | 1% | -7% |
| 14 | 86 | 2% | -11% |
| 15 | 90 | -4% | -3% |
| 16 | 83 | -4% | -12% |





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 |
| 67lx | 17lx | 7lx | 4lx | 3lx | 2lx | 1lx | 1lx | 1lx | 1lx | 1lx | 0lx | 0lx | 0lx | 0lx | 0lx | 0lx | 0lx | 0lx | 0lx |
| 6,3fcd | 1,6fcd | 0,7fcd | 0,4fcd | 0,3fcd | 0,2fcd | 0,1fcd | 0,1fcd | 0,1fcd | 0,1fcd | 0,1fcd | 0fcd | 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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|
| 67,3 | 67,0 | 66,2 | 64,9 | 63,1 | 60,9 | 57,5 | 52,9 | 46,7 | 38,2 | 28,4 | 19,3 | 11,5 | 5,7 | 2,5 | 1,3 | 1,0 | 0,7 | 0,4 | 0,2 |
| 100% | 100% | 98% | 96% | 94% | 90% | 85% | 79% | 69% | 57% | 42% | 29% | 17% | 8% | 4% | 2% | 1% | 1% | 1% | 0% |

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° |
|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 67,3 | 67,1 | 66,6 | 65,7 | 64,1 | 60,7 | 54,2 | 46,1 | 35,3 | 24,2 | 14,4 | 8,1 | 3,4 | 1,4 | 1,0 | 0,8 | 0,7 | 0,5 | 0,3 | 0,1 |
| 100% | 100% | 99% | 98% | 95% | 90% | 80% | 69% | 52% | 36% | 21% | 12% | 5% | 2% | 1% | 1% | 1% | 1% | 0% | 0% |

Intensities in 180° c-plane

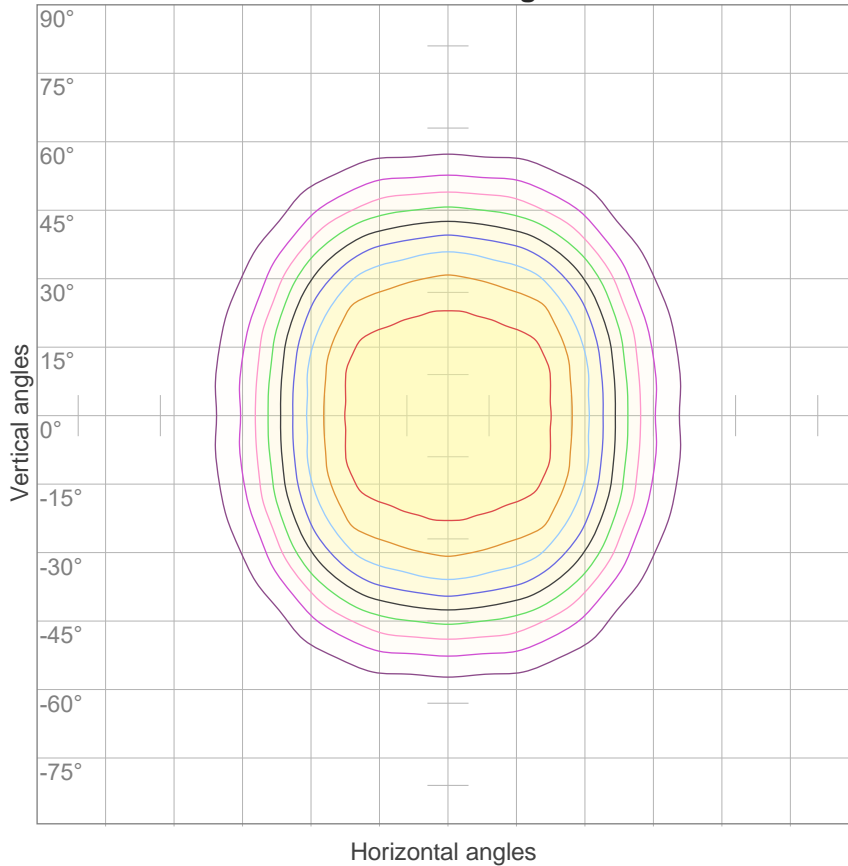
| 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|
| 67,3 | 67,0 | 66,2 | 64,9 | 63,1 | 60,9 | 57,5 | 52,9 | 46,7 | 38,2 | 28,4 | 19,3 | 11,5 | 5,7 | 2,5 | 1,3 | 1,0 | 0,7 | 0,4 | 0,2 |
| 100% | 100% | 98% | 96% | 94% | 90% | 85% | 79% | 69% | 57% | 42% | 29% | 17% | 8% | 4% | 2% | 1% | 1% | 1% | 0% |

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° |
|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 67,3 | 67,1 | 66,6 | 65,7 | 64,1 | 60,7 | 54,2 | 46,1 | 35,3 | 24,2 | 14,4 | 8,1 | 3,4 | 1,4 | 1,0 | 0,8 | 0,7 | 0,5 | 0,3 | 0,1 |
| 100% | 100% | 99% | 98% | 95% | 90% | 80% | 69% | 52% | 36% | 21% | 12% | 5% | 2% | 1% | 1% | 1% | 1% | 0% | 0% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 90,9° | 123,2° | 169,8° | 92,9% | 73,8% |

iso-candela diagram



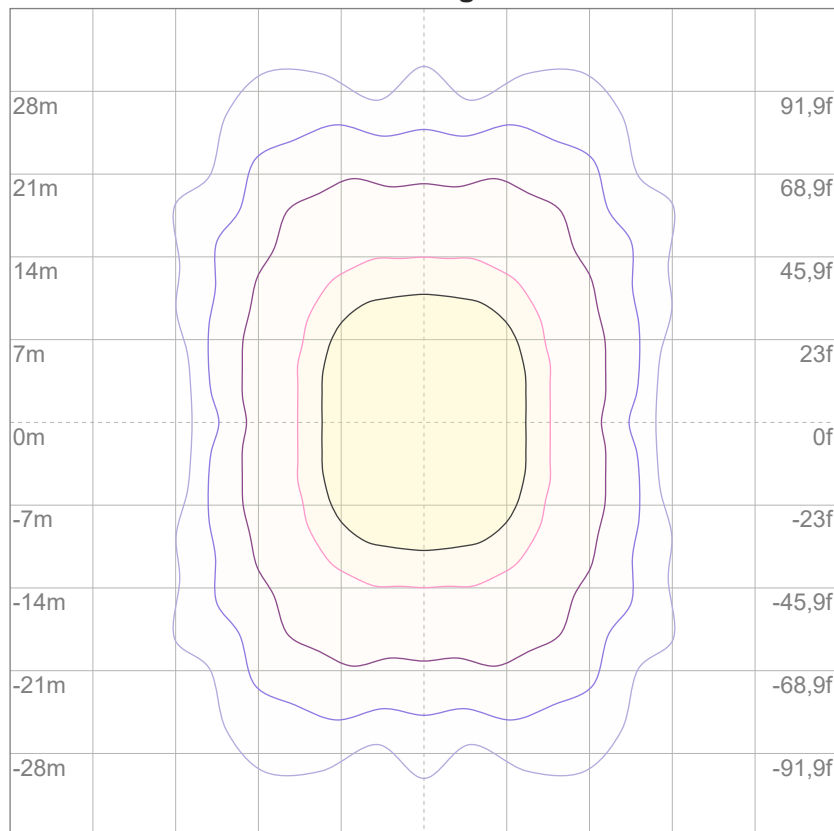
| | |
|-----|-------|
| 10% | 7 cd |
| 20% | 13 cd |
| 30% | 20 cd |
| 40% | 27 cd |
| 50% | 34 cd |
| 60% | 40 cd |
| 70% | 47 cd |
| 80% | 54 cd |
| 90% | 61 cd |

Conditions:

Number of c-planes: 44

Candela at center: 67 cd

iso-lux diagram



| | |
|-----|----------|
| 3% | 20,2m lx |
| 5% | 33,6m lx |
| 10% | 67,3m lx |
| 30% | 0,202 lx |
| 50% | 0,336 lx |

Conditions:

Number of c-planes: 44

Lux at center: 0,673 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 X Y | Viewing direction at right angles to lamp axis | | | | | Viewing direction parallel to lamp axis | | | | |
| n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| Variation of the observer position for the luminaire distance S | | | | | | | | | | |
| n/a | n/a | | | | | n/a | | | | |
| n/a | n/a | | | | | n/a | | | | |
| n/a | n/a | | | | | n/a | | | | |
| CIE 117-1995. Corrected glare indices referring to 135 lm total luminous flux | | | | | | | | | | |

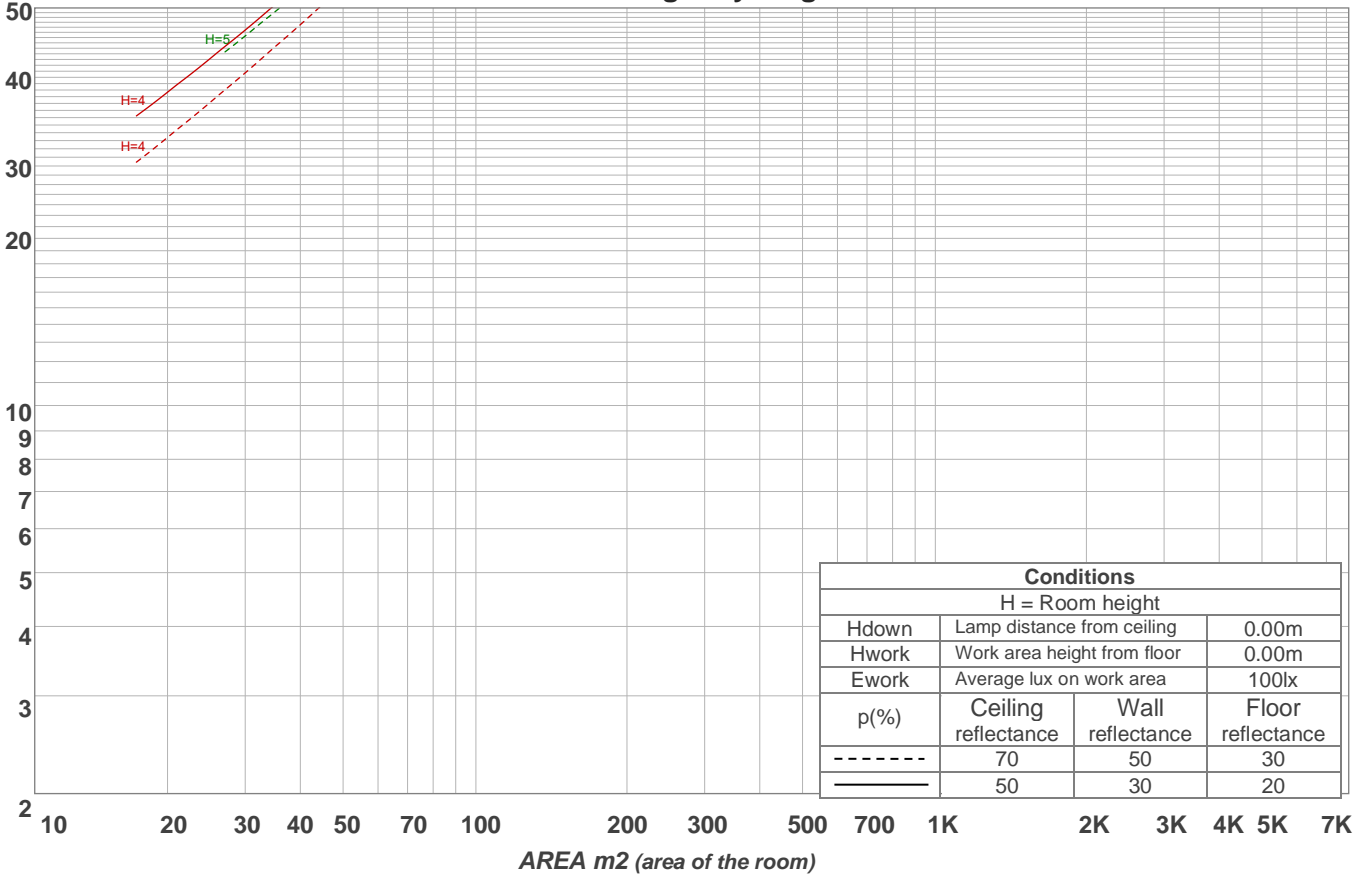
UGR data could not be calculated due to missing dimensions. Goto Edit->Photometric->Dimensions and set the fixture/lamp dimensions.

Coefficients of Utilization

| Ceiling reflectance | 80 | | | | 70 | | | | 50 | | | 30 | | | 10 | | | 0 |
|---------------------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 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 |
| RCR | (RCR: Room Cavity Ratio) Room Values are expressed as percentage of Lumens delivered to the task surface | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 110 | 110 | 110 | 105 | 105 | 105 | 100 | 100 | 100 | 98 |
| 1 | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99 | 100 | 98 | 96 | 96 | 94 | 93 | 92 | 91 | 90 | 87 |
| 2 | 103 | 97 | 91 | 87 | 101 | 95 | 90 | 86 | 91 | 87 | 83 | 88 | 84 | 81 | 84 | 82 | 79 | 77 |
| 3 | 96 | 87 | 81 | 75 | 93 | 86 | 80 | 75 | 83 | 77 | 73 | 80 | 75 | 72 | 77 | 73 | 70 | 68 |
| 4 | 89 | 79 | 72 | 66 | 87 | 78 | 71 | 66 | 75 | 69 | 65 | 73 | 68 | 64 | 70 | 66 | 63 | 61 |
| 5 | 83 | 72 | 64 | 59 | 81 | 71 | 64 | 58 | 68 | 62 | 57 | 66 | 61 | 57 | 65 | 60 | 56 | 54 |
| 6 | 77 | 66 | 58 | 52 | 75 | 65 | 57 | 52 | 63 | 56 | 51 | 61 | 55 | 51 | 59 | 54 | 50 | 49 |
| 7 | 72 | 60 | 52 | 47 | 70 | 59 | 52 | 47 | 58 | 51 | 46 | 56 | 50 | 46 | 55 | 49 | 45 | 44 |
| 8 | 67 | 55 | 48 | 42 | 66 | 54 | 47 | 42 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 45 | 41 | 40 |
| 9 | 63 | 51 | 44 | 39 | 62 | 50 | 43 | 39 | 49 | 43 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | 36 |
| 10 | 59 | 47 | 40 | 35 | 58 | 47 | 40 | 35 | 46 | 39 | 35 | 45 | 39 | 35 | 44 | 38 | 35 | 33 |

LAMPS (number of lamps)

Luminaire budgetary diagram



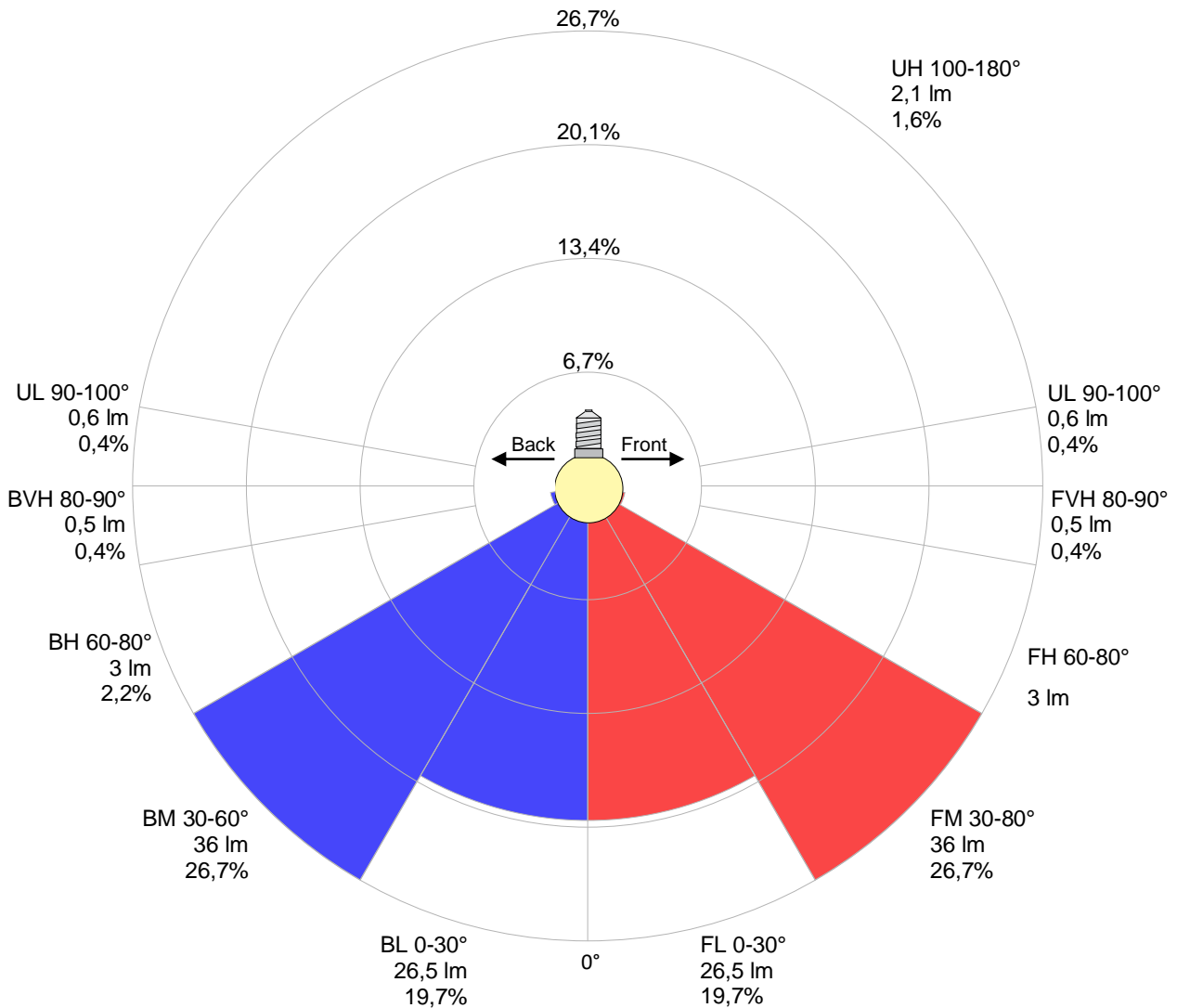
Zonal Lumen Summary

| 0°-10° | 10°-20° | 20°-30° | 30°-40° | 40°-50° | 50°-60° | 60°-70° | 70°-80° | 80°-90° |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| {LUM0-10} | 18,5 lm | 28,2 lm | 31,9 lm | 26,2 lm | 14,0 lm | 4,47 lm | 1,36 lm | 1,07 lm |
| 90°-100° | 100°-110° | 110°-120° | 120°-130° | 130°-140° | 140°-150° | 150°-160° | 160°-170° | 170°-180° |
| 0,566 lm | 0,466 lm | 0,495 lm | 0,461 lm | 0,331 lm | 0,049 lm | 0,053 lm | 0,143 lm | 0,101 lm |

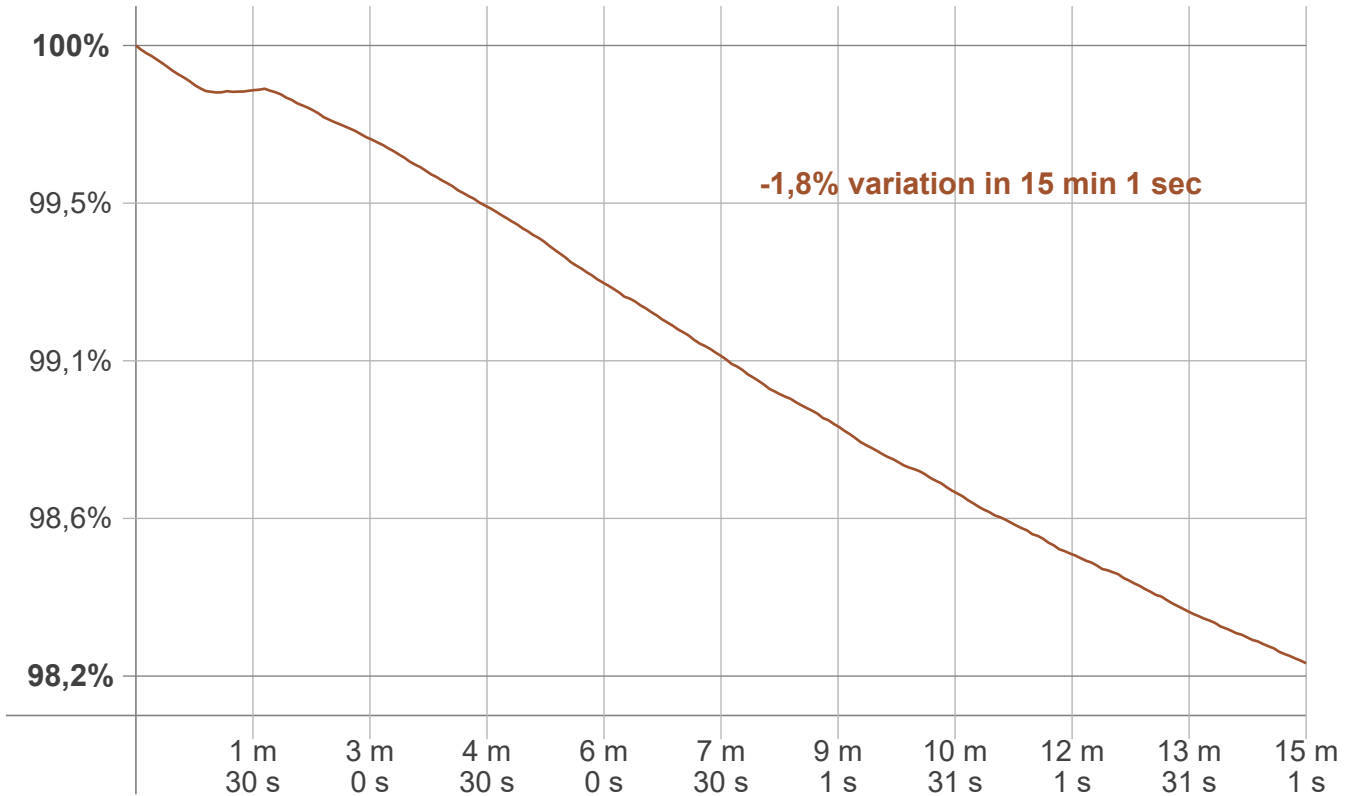
LCS table

| BUG rating: | B0 U1 G0 | |
|----------------------|----------|----------|
| Forward light | Lumens | Lumens % |
| Low(0-30): | 26,5 | 19,7% |
| Medium(30-60): | 36 | 26,7% |
| High(60-80): | 3 | 2,2% |
| Very high(80-90): | 0,5 | 0,4% |
| Back light | | |
| Low(0-30): | 26,5 | 19,7% |
| Medium(30-60): | 36 | 26,7% |
| High(60-80): | 3 | 2,2% |
| Very high(80-90): | 0,5 | 0,4% |
| Uplight | | |
| Low(90-100): | 0,6 | 0,4% |
| High(100-180): | 2,1 | 1,6% |

LCS graph



Warmup curve



Warmup result

| | |
|-------------------------|--|
| Warmup time: | Lamp stabilized in 15 min 1 sec |
| Warmup variation | -1,8% |

Warmup conditions

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

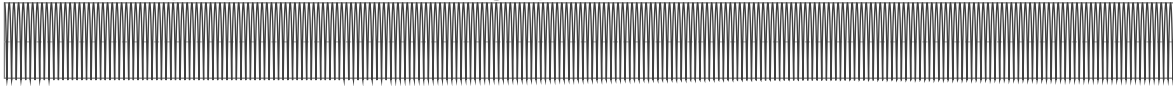
Color temperature change

| CCT start | CCT change | CCT end |
|-----------|------------|---------|
| 3000 K | +0 K | 3000 K |

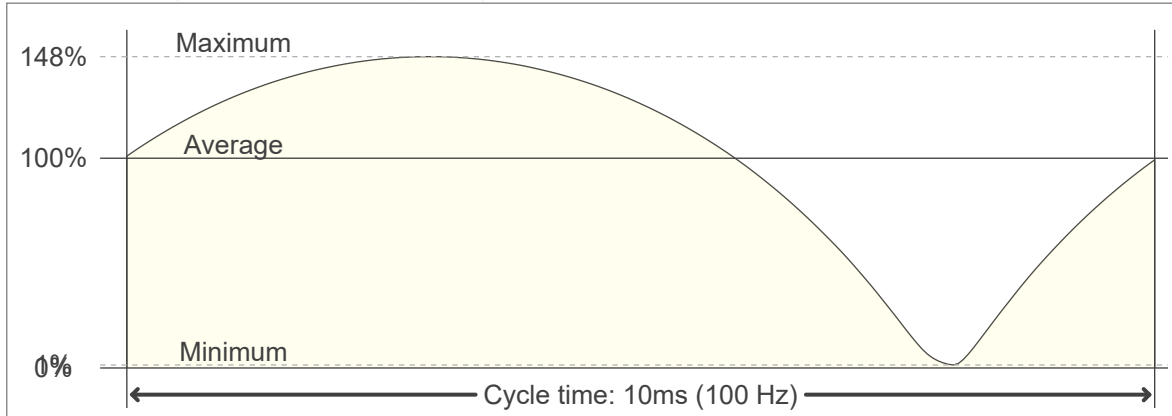
Output change

| Output start | Output change | Output end |
|--------------|---------------|------------|
| 137 lm | -2 lm | 135 lm |

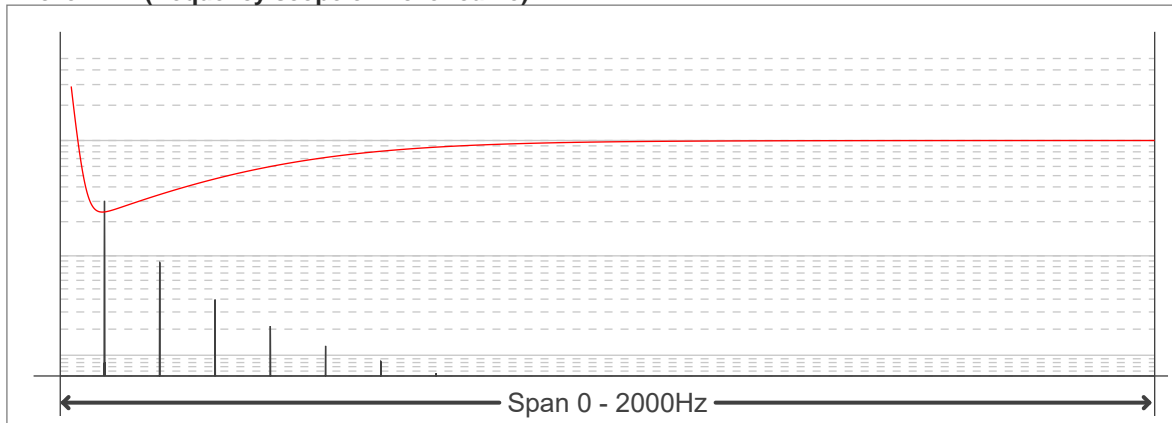
Flicker curve (complete sampled flicker signal)



Flicker frame (frame of one flicker period)



Flicker FFT (frequency scope of flicker curve)



Flicker results:

| Flicker frequency: | | 100 Hz | |
|-----------------------|--------|---------------|---------|
| Flicker index: | 0,19 | JA8/10 40Hz | 0,13 % |
| Flicker percentage: | 98,1 % | JA8/10 90Hz | 0,54 % |
| SVM: (Visual flicker) | 2,37 | JA8/10 200Hz | 67,3 % |
| PstLM | 0,05 | JA8/10 400Hz | 86,02 % |
| Mp | 0,02 | JA8/10 1000Hz | 96,75 % |

Flicker conditions:

| | |
|--------------|----------------------|
| Sample rate: | 20000 samples/second |
|--------------|----------------------|