

Light efficiency:

173 Lumen/Watt

Light quality:

CRI: 0.0

Color temperature:

0 K

Output: 175 lm

Peak: 51.0 cd

Power: 1.0 W

PF: 1.0



Tracking number: [n/a](#)

Product name:

**PC10.5MRBORGBWADR203.0RGB30
-GREEN**

Item number:

Date and time:

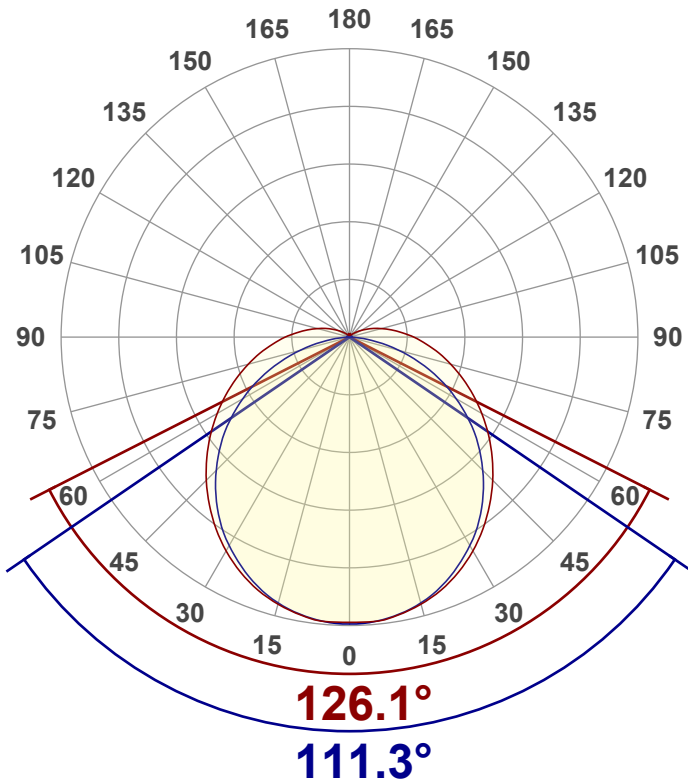
2024/10/11 17:42:32

Operator:

Nick

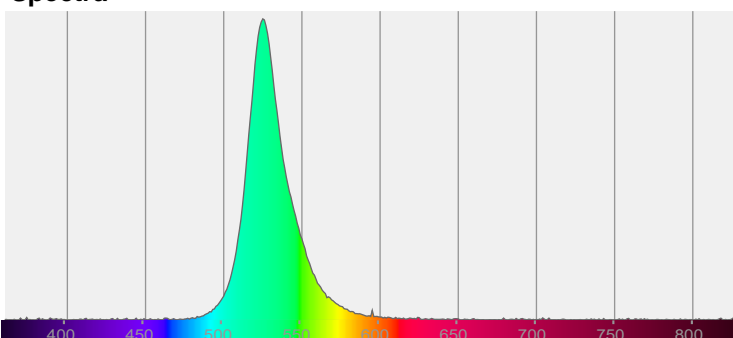
Description:

DIAMETER 40.6MM,LENGTH 500MM



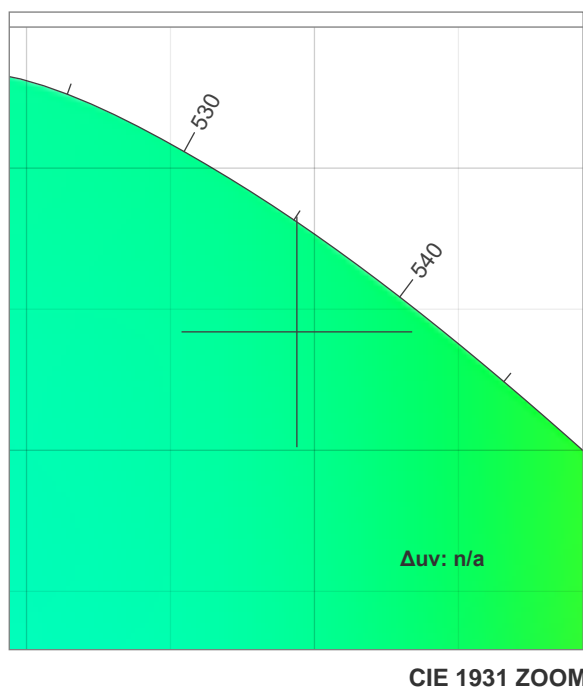
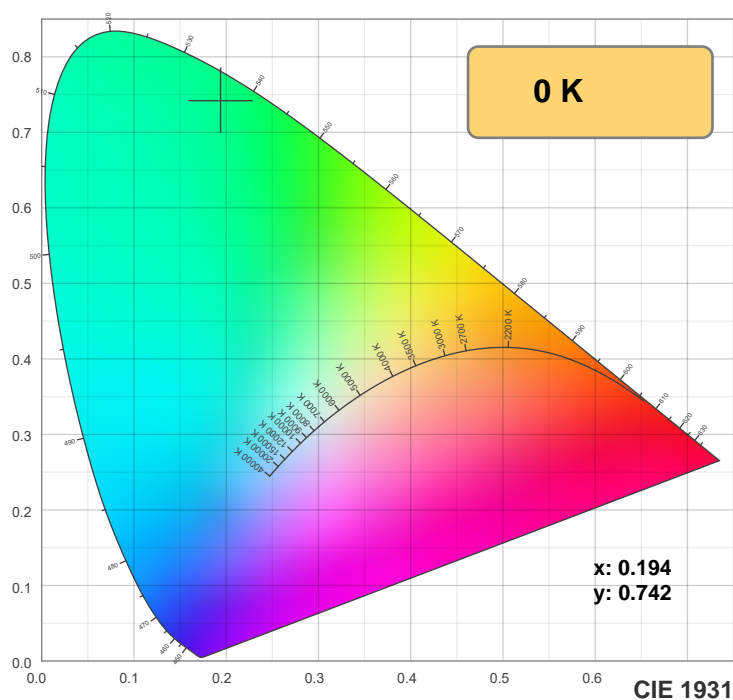
CIE 1931
x: 0.194
y: 0.742

Spectra

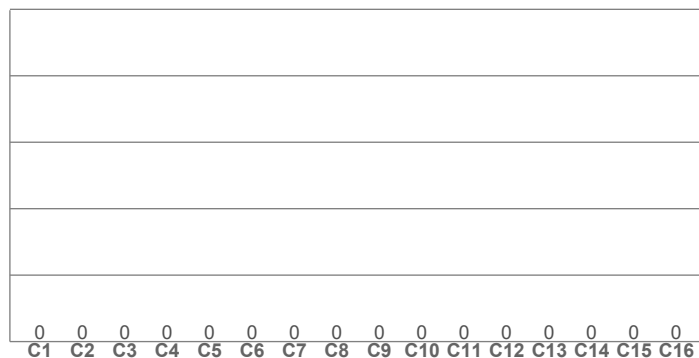


Power

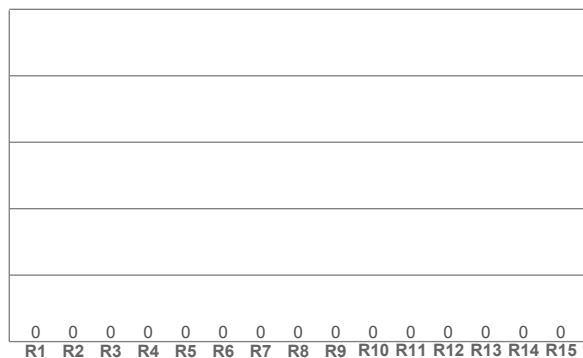
Voltage: 24.0 V
Current: 0.042 A
Frequency: 0 Hz



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 |

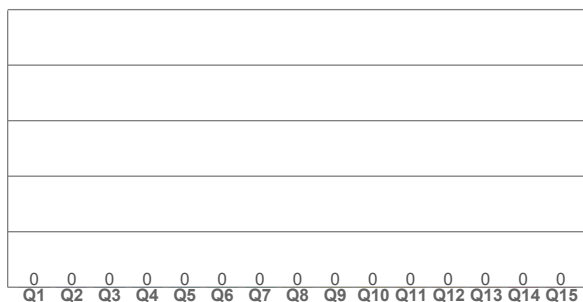
TM30 C values, 16 binned values out of total of 99 C values

| 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 deviation 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 | 0.194 | 0.742 | 0.067 | 0.387 | n/a |

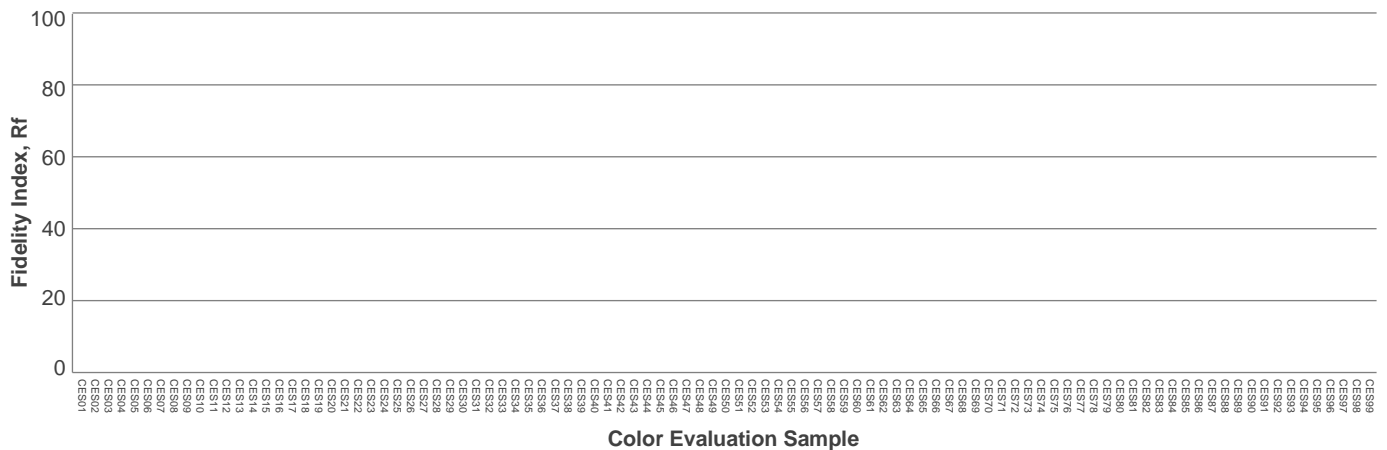
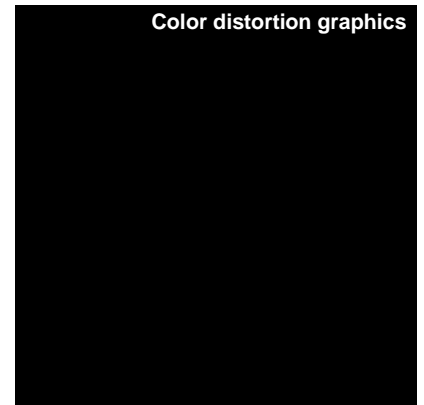
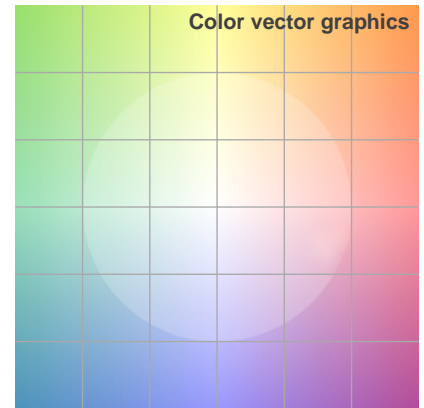
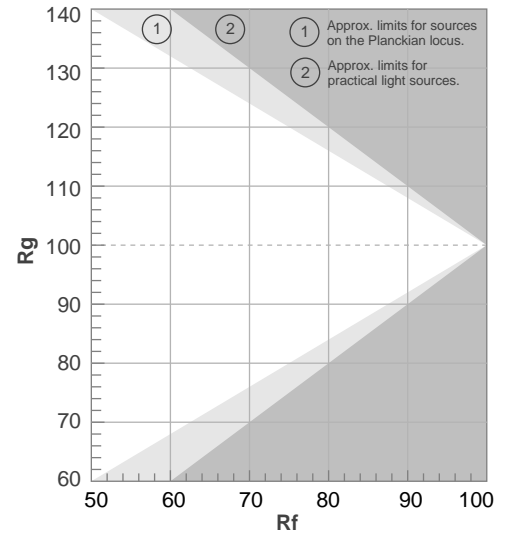
Rf 0.0

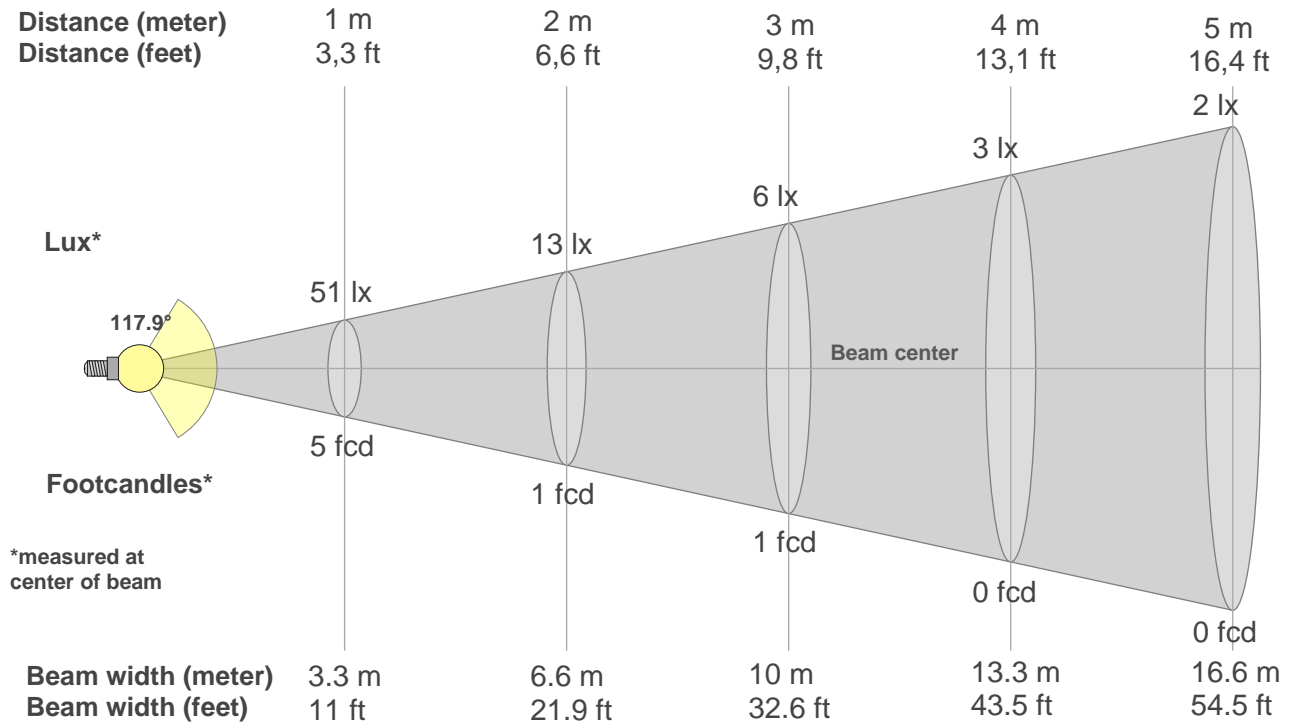
Fidelity index Rf

Rg 0.0

Gamut index Rg

| Hue Bin | R _f | 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 |
| 51lx | 13lx | 6lx | 3lx | 2lx | 1lx | 1lx | 1lx | 1lx | 1lx | 0lx | 0lx | 0lx | 0lx | 0lx | 0lx | 0lx | 0lx | 0lx | 0lx |
| 4.7fcd | 1.2fcd | 0.5fcd | 0.3fcd | 0.2fcd | 0.1fcd | 0.1fcd | 0.1fcd | 0.1fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd |

Intensities in 0° c-plane

| 0° | 9° | 18° | 27° | 36° | 45° | 54° | 63° | 72° | 81° | 90° | 99° | 108° | 117° | 126° | 135° | 144° | 153° | 162° | 171° |
|------|------|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|
| 50.9 | 50.3 | 48.3 | 45.2 | 40.9 | 36.0 | 30.7 | 25.4 | 20.3 | 15.6 | 11.4 | 7.8 | 5.0 | 2.9 | 1.6 | 0.8 | 0.6 | 0.4 | 0.5 | 0.5 |
| 100% | 99% | 95% | 89% | 80% | 71% | 60% | 50% | 40% | 31% | 22% | 15% | 10% | 6% | 3% | 2% | 1% | 1% | 1% | 1% |

Intensities in 90° c-plane

| 0° | 9° | 18° | 27° | 36° | 45° | 54° | 63° | 72° | 81° | 90° | 99° | 108° | 117° | 126° | 135° | 144° | 153° | 162° | 171° |
|------|------|------|------|------|------|------|------|------|-----|-----|-----|------|------|------|------|------|------|------|------|
| 50.9 | 50.2 | 48.0 | 44.2 | 39.4 | 33.5 | 26.8 | 19.4 | 11.7 | 4.5 | 0.5 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 | 0.5 | 0.4 | 0.4 |
| 100% | 99% | 94% | 87% | 77% | 66% | 53% | 38% | 23% | 9% | 1% | 0% | 0% | 1% | 1% | 1% | 1% | 1% | 1% | 1% |

Intensities in 180° c-plane

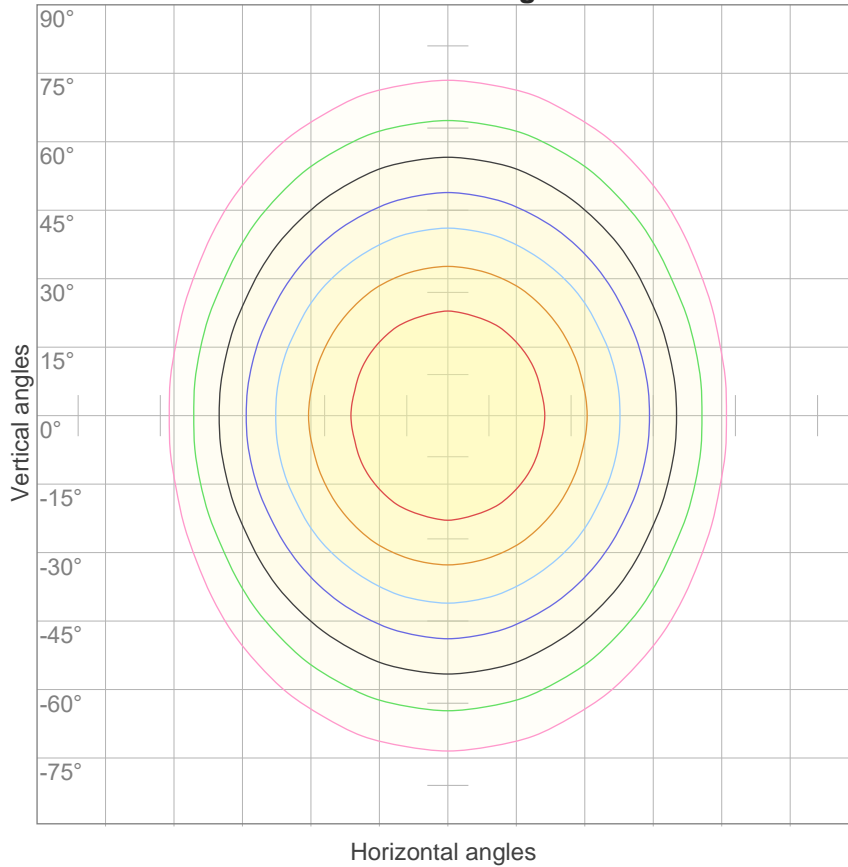
| 0° | 9° | 18° | 27° | 36° | 45° | 54° | 63° | 72° | 81° | 90° | 99° | 108° | 117° | 126° | 135° | 144° | 153° | 162° | 171° |
|------|------|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|
| 50.9 | 50.3 | 48.3 | 45.2 | 40.9 | 36.0 | 30.7 | 25.4 | 20.3 | 15.6 | 11.4 | 7.8 | 5.0 | 2.9 | 1.6 | 0.8 | 0.6 | 0.4 | 0.5 | 0.5 |
| 100% | 99% | 95% | 89% | 80% | 71% | 60% | 50% | 40% | 31% | 22% | 15% | 10% | 6% | 3% | 2% | 1% | 1% | 1% | 1% |

Intensities in 270° c-plane

| 0° | 9° | 18° | 27° | 36° | 45° | 54° | 63° | 72° | 81° | 90° | 99° | 108° | 117° | 126° | 135° | 144° | 153° | 162° | 171° |
|------|------|------|------|------|------|------|------|------|-----|-----|-----|------|------|------|------|------|------|------|------|
| 50.9 | 50.2 | 48.0 | 44.2 | 39.4 | 33.5 | 26.8 | 19.4 | 11.7 | 4.5 | 0.5 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 | 0.5 | 0.4 | 0.4 |
| 100% | 99% | 94% | 87% | 77% | 66% | 53% | 38% | 23% | 9% | 1% | 0% | 0% | 1% | 1% | 1% | 1% | 1% | 1% | 1% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 117.9° | 190° | 223.2° | 66.9% | 45.0% |

iso-candela diagram



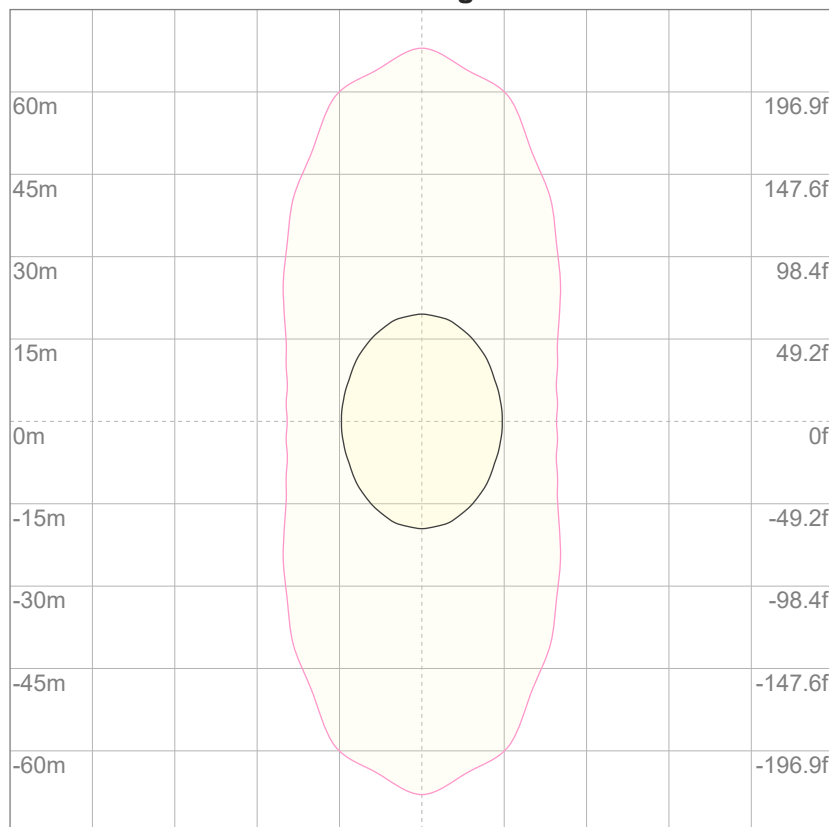
| | |
|-----|-------|
| 10% | 5 cd |
| 20% | 10 cd |
| 30% | 15 cd |
| 40% | 20 cd |
| 50% | 25 cd |
| 60% | 31 cd |
| 70% | 36 cd |
| 80% | 41 cd |
| 90% | 46 cd |

Conditions:

Number of c-planes: 24

Candela at center: 51 cd

iso-lux diagram



| | |
|-----|----------|
| 3% | 15.3m lx |
| 5% | 25.5m lx |
| 10% | 50.9m lx |
| 30% | 0.153 lx |
| 50% | 0.255 lx |

Conditions:

Number of c-planes: 24

Lux at center: 0.509 lx

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

Glare evaluation according to UGR

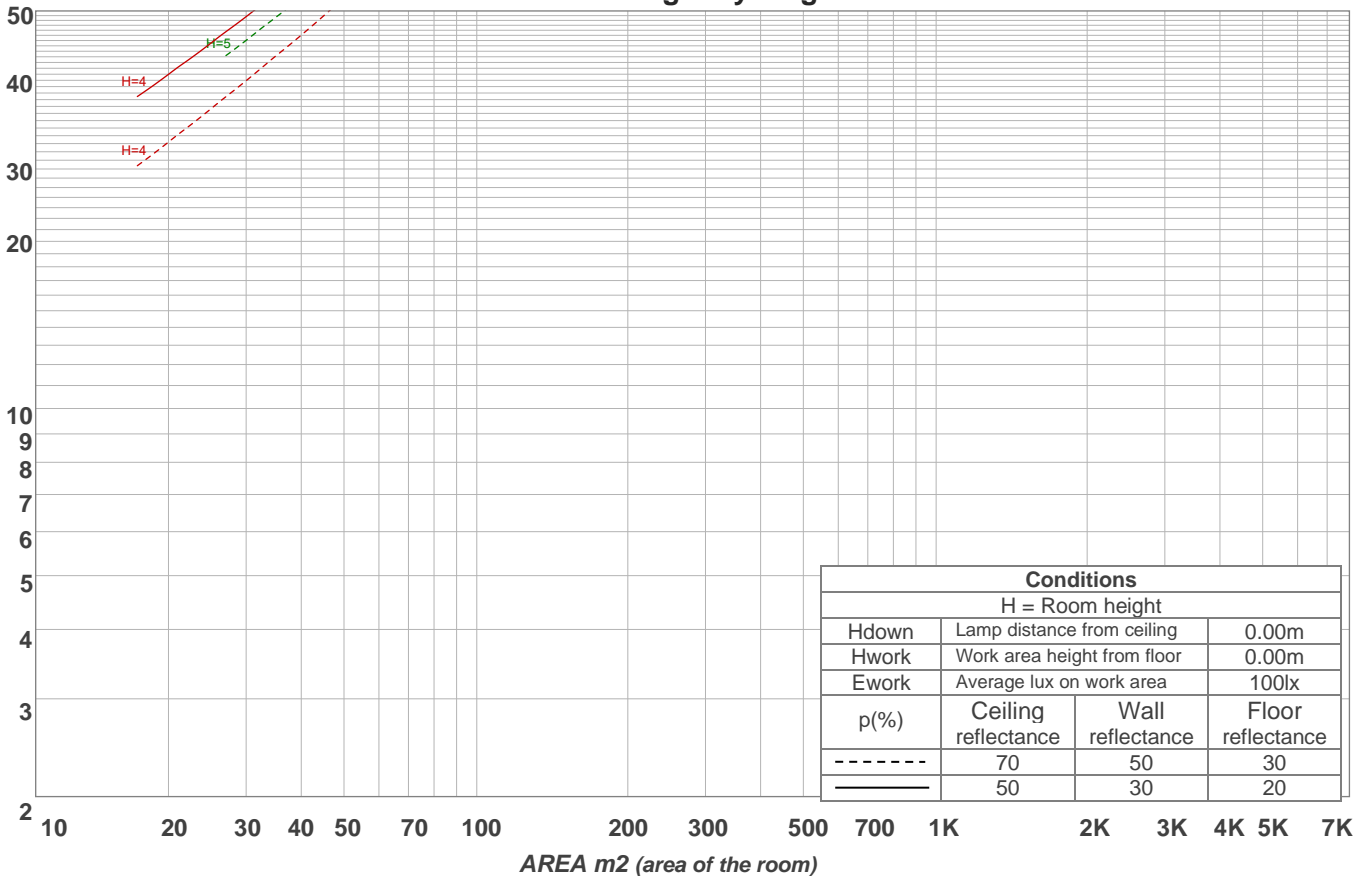
| | | | | | | | | | | | |
|---|-----|---|------|------|------|------|---|------|------|------|------|
| p Ceiling | | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 |
| p Walls | | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 |
| p Floor | | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| Room size X Y | | Viewing direction at right angles to lamp axis | | | | | Viewing direction parallel to lamp axis | | | | |
| 2H | 2H | 12.5 | 13.7 | 12.9 | 14.1 | 14.5 | 13.2 | 14.4 | 13.5 | 14.8 | 15.2 |
| | 3H | 14.1 | 15.3 | 14.6 | 15.7 | 16.1 | 14.5 | 15.8 | 15.0 | 16.2 | 16.5 |
| | 4H | 14.9 | 16.1 | 15.4 | 16.5 | 16.9 | 15.1 | 16.3 | 15.6 | 16.7 | 17.1 |
| | 6H | 15.7 | 16.7 | 16.1 | 17.1 | 17.6 | 15.5 | 16.5 | 15.9 | 17.0 | 17.5 |
| | 8H | 16.0 | 17.1 | 16.5 | 17.5 | 18.0 | 15.6 | 16.6 | 16.0 | 17.0 | 17.6 |
| | 12H | 16.3 | 17.4 | 16.8 | 17.8 | 18.3 | 15.6 | 16.7 | 16.1 | 17.1 | 17.6 |
| 4H | 2H | 13.1 | 14.3 | 13.6 | 14.7 | 15.1 | 13.6 | 14.8 | 14.1 | 15.2 | 15.6 |
| | 3H | 15.0 | 16.0 | 15.4 | 16.4 | 17.0 | 15.2 | 16.3 | 15.7 | 16.7 | 17.2 |
| | 4H | 15.8 | 16.8 | 16.4 | 17.3 | 17.9 | 15.8 | 16.8 | 16.3 | 17.3 | 17.9 |
| | 6H | 16.7 | 17.6 | 17.3 | 18.1 | 18.6 | 16.3 | 17.2 | 16.9 | 17.6 | 18.1 |
| | 8H | 17.2 | 18.0 | 17.7 | 18.5 | 19.0 | 16.4 | 17.2 | 17.0 | 17.7 | 18.2 |
| | 12H | 17.6 | 18.2 | 18.1 | 18.8 | 19.4 | 16.5 | 17.2 | 17.1 | 17.7 | 18.3 |
| 8H | 4H | 16.1 | 16.9 | 16.7 | 17.4 | 17.9 | 16.1 | 16.9 | 16.7 | 17.4 | 17.9 |
| | 6H | 17.2 | 17.9 | 17.8 | 18.4 | 19.1 | 16.7 | 17.4 | 17.3 | 17.9 | 18.6 |
| | 8H | 17.8 | 18.4 | 18.4 | 19.0 | 19.7 | 17.0 | 17.5 | 17.6 | 18.2 | 18.9 |
| | 12H | 18.4 | 18.8 | 19.0 | 19.5 | 20.2 | 17.1 | 17.6 | 17.8 | 18.2 | 18.9 |
| 12H | 4H | 16.1 | 16.8 | 16.7 | 17.4 | 17.9 | 16.1 | 16.8 | 16.7 | 17.3 | 17.9 |
| | 6H | 17.3 | 17.9 | 17.9 | 18.5 | 19.3 | 16.9 | 17.4 | 17.5 | 18.0 | 18.8 |
| | 8H | 17.9 | 18.4 | 18.6 | 19.0 | 19.7 | 17.1 | 17.6 | 17.8 | 18.2 | 18.9 |
| 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 / -0.1 | | | | | 0.3 / -0.4 | | | | |
| S = 2.0H | | 0.3 / -0.3 | | | | | 0.7 / -0.8 | | | | |
| CIE 117-1995. Corrected glare indices referring to 175 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 |
| RCR | (RCR: Room Cavity Ratio) Room Values are expressed as percentage of Lumens delivered to the task surface | | | | | | | | | | | | | | | | | |
| 0 | 117 | 117 | 117 | 117 | 114 | 114 | 114 | 114 | 107 | 107 | 107 | 101 | 101 | 101 | 96 | 96 | 96 | 93 |
| 1 | 105 | 100 | 95 | 90 | 102 | 97 | 92 | 88 | 91 | 87 | 84 | 86 | 83 | 80 | 81 | 79 | 77 | 74 |
| 2 | 95 | 86 | 78 | 72 | 92 | 83 | 77 | 71 | 79 | 73 | 68 | 74 | 70 | 65 | 70 | 66 | 63 | 60 |
| 3 | 86 | 75 | 66 | 59 | 83 | 73 | 65 | 58 | 69 | 62 | 56 | 65 | 59 | 55 | 62 | 57 | 53 | 50 |
| 4 | 79 | 66 | 57 | 50 | 76 | 64 | 56 | 49 | 61 | 54 | 48 | 58 | 51 | 46 | 55 | 49 | 45 | 42 |
| 5 | 72 | 59 | 50 | 43 | 70 | 57 | 49 | 42 | 54 | 47 | 41 | 52 | 45 | 40 | 49 | 43 | 39 | 36 |
| 6 | 67 | 53 | 44 | 37 | 64 | 52 | 43 | 37 | 49 | 41 | 36 | 47 | 40 | 35 | 45 | 39 | 34 | 32 |
| 7 | 62 | 48 | 39 | 33 | 60 | 47 | 38 | 32 | 45 | 37 | 32 | 43 | 36 | 31 | 41 | 35 | 30 | 28 |
| 8 | 57 | 44 | 35 | 29 | 56 | 43 | 34 | 29 | 41 | 33 | 28 | 39 | 32 | 27 | 37 | 31 | 27 | 25 |
| 9 | 54 | 40 | 32 | 26 | 52 | 39 | 31 | 26 | 37 | 30 | 25 | 36 | 29 | 25 | 34 | 29 | 24 | 22 |
| 10 | 50 | 37 | 29 | 23 | 49 | 36 | 28 | 23 | 35 | 28 | 23 | 33 | 27 | 22 | 32 | 26 | 22 | 20 |

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} | 13.8 lm | 21.0 lm | 25.5 lm | 26.8 lm | 25.0 lm | 20.9 lm | 15.2 lm | 9.62 lm |
| 90°-100° | 100°-110° | 110°-120° | 120°-130° | 130°-140° | 140°-150° | 150°-160° | 160°-170° | 170°-180° |
| 5.57 lm | 3.09 lm | 1.58 lm | 0.767 lm | 0.416 lm | 0.274 lm | 0.199 lm | 0.118 lm | 0.042 lm |

LCS table

| BUG rating: | B0 U1 G0 | |
|-------------------|----------|----------|
| Forward light | Lumens | Lumens % |
| Low(0-30): | 19.8 | 11.3% |
| Medium(30-60): | 38.6 | 22.1% |
| High(60-80): | 18.1 | 10.3% |
| Very high(80-90): | 4.8 | 2.8% |
| Back light | | |
| Low(0-30): | 19.8 | 11.3% |
| Medium(30-60): | 38.6 | 22.1% |
| High(60-80): | 18.1 | 10.3% |
| Very high(80-90): | 4.8 | 2.8% |
| Uplight | | |
| Low(90-100): | 5.6 | 3.2% |
| High(100-180): | 6.5 | 3.7% |

LCS graph

