

Light efficiency:



Light quality:



Color temperature:

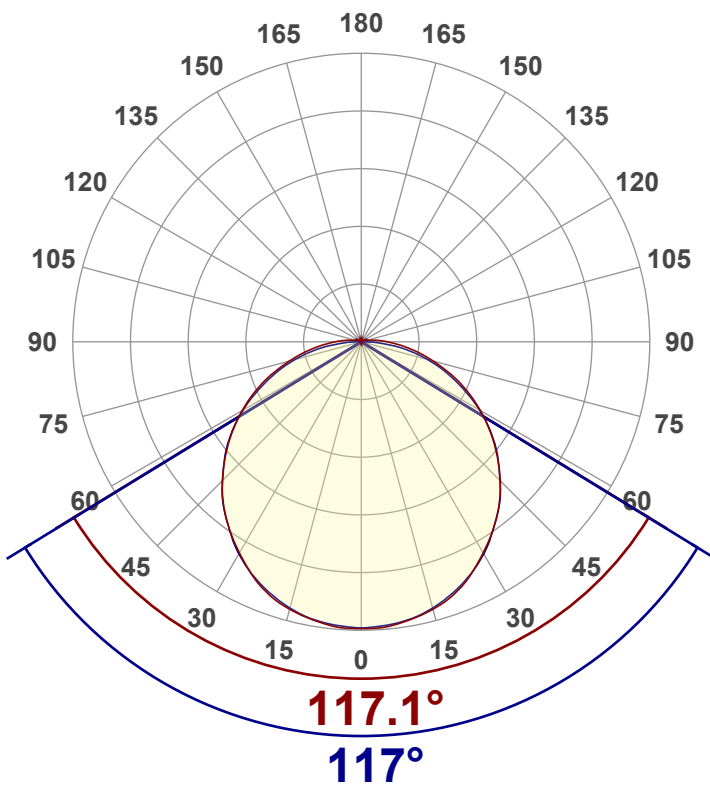
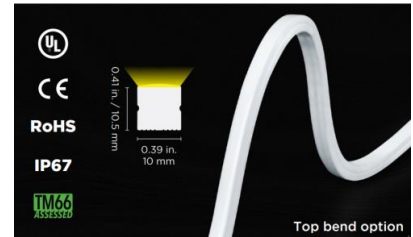


Output: 108 lm

Peak: 34.1 cd

Power: 3.7 W

PF: 1.0



Tracking number: [n/a](#)

Product name:
NLAMT2.4RE

Item number:

Date and time:
10/13/2025 3:50:26 PM

Operator:
BOB

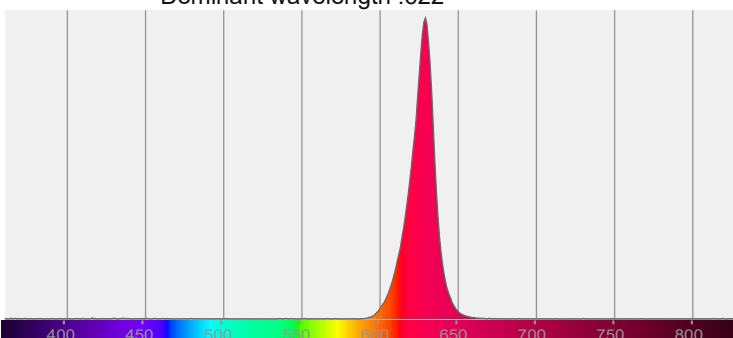
Description:
24Vdc, 8W/m, RED, TOP BEND, 0.5m in length



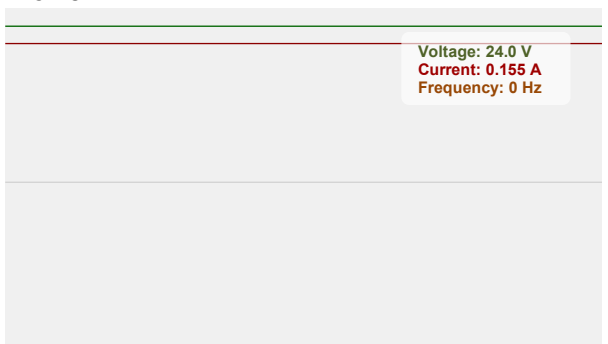
CIE 1931
x: 0.693
y: 0.304

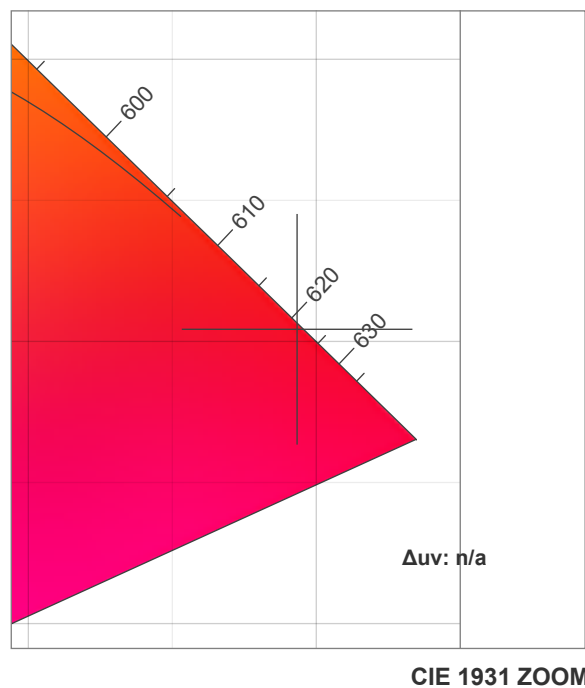
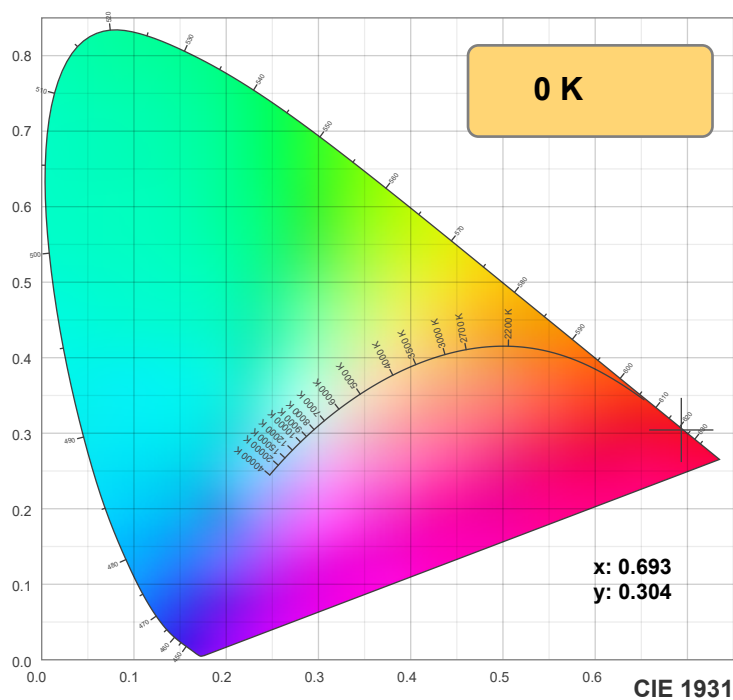
Spectra: Peak wavelength :629

Dominant wavelength :622

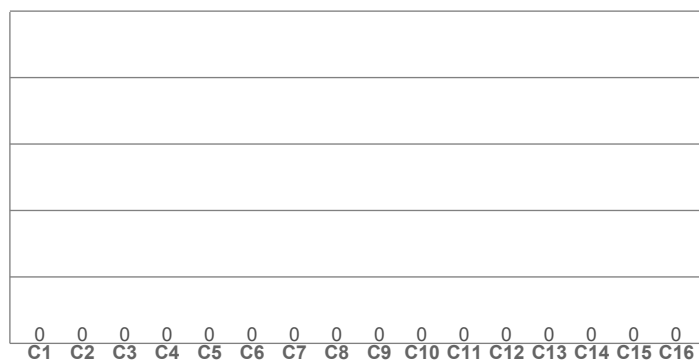


Power

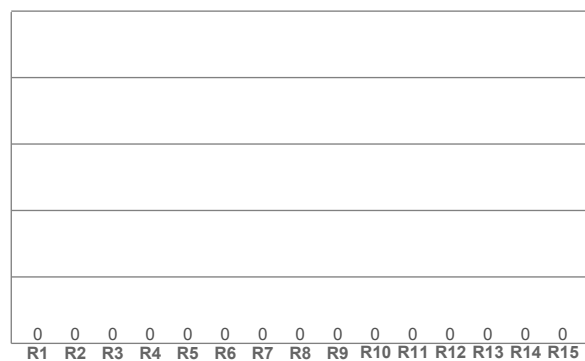




TM-30: 0.0



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 |

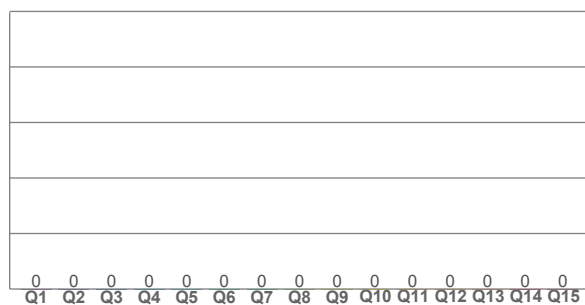
TM30 C values, 16 binned values out of total of 99 C values

| 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 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 | 0.693 | 0.304 | 0.527 | 0.347 | n/a |

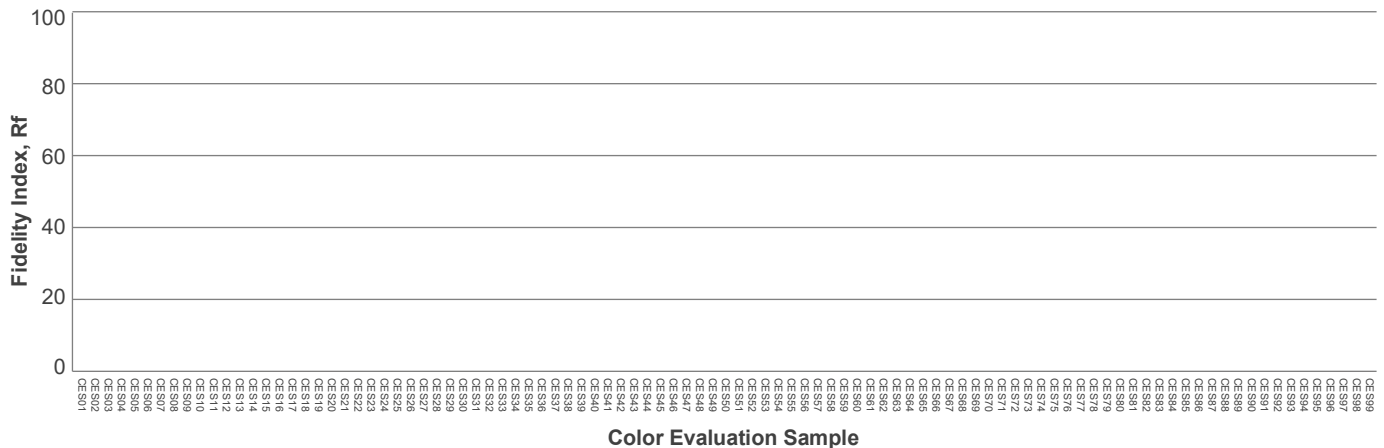
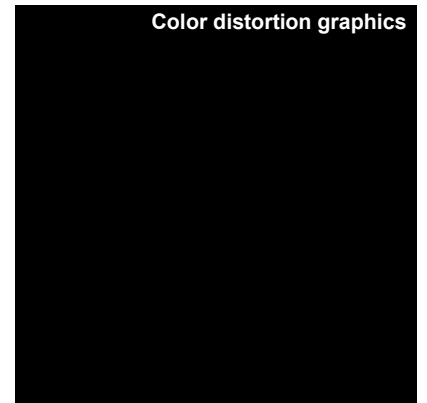
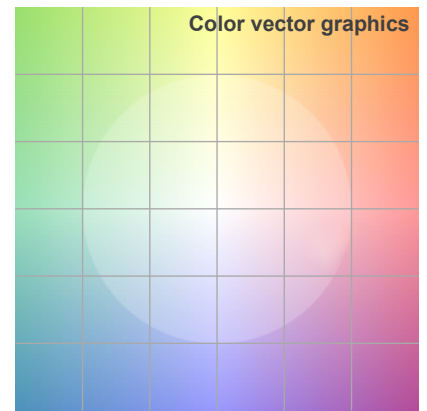
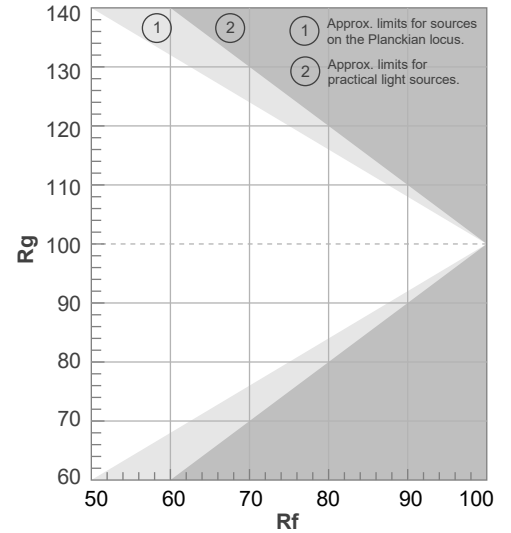
Rf 0.0

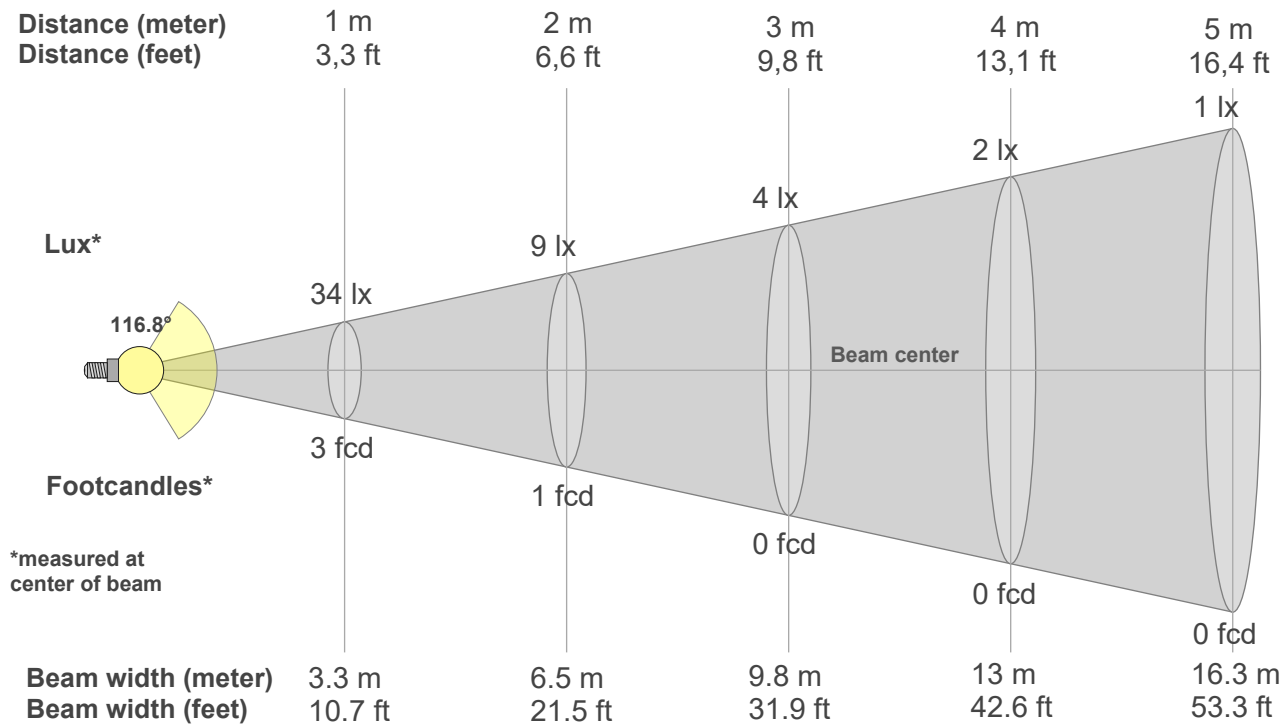
Fidelity index Rf

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 |
| 34lx | 9lx | 4lx | 2lx | 1lx | 1lx | 1lx | 1lx | 0lx | 0lx | 0lx | 0lx | 0lx | 0lx | 0lx | 0lx | 0lx | 0lx | 0lx | 0lx |
| 3.2fcd | 0.8fcd | 0.4fcd | 0.2fcd | 0.1fcd | 0.1fcd | 0.1fcd | 0fcd | 0fcd | 0fcd | 0fcd | 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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|
| 34.1 | 34.0 | 33.6 | 32.9 | 32.0 | 30.7 | 29.0 | 27.3 | 25.5 | 23.4 | 21.1 | 18.8 | 16.4 | 13.9 | 11.4 | 8.9 | 6.7 | 4.7 | 3.1 | 2.0 |
| 100% | 100% | 99% | 97% | 94% | 90% | 85% | 80% | 75% | 69% | 62% | 55% | 48% | 41% | 33% | 26% | 20% | 14% | 9% | 6% |

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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|
| 34.1 | 33.9 | 33.5 | 32.8 | 31.8 | 30.6 | 29.1 | 27.3 | 25.5 | 23.3 | 21.2 | 18.8 | 16.2 | 13.5 | 10.8 | 8.2 | 5.5 | 2.8 | 0.9 | 0.2 |
| 100% | 99% | 98% | 96% | 93% | 90% | 85% | 80% | 75% | 69% | 62% | 55% | 48% | 40% | 32% | 24% | 16% | 8% | 3% | 1% |

Intensities in 180° c-plane

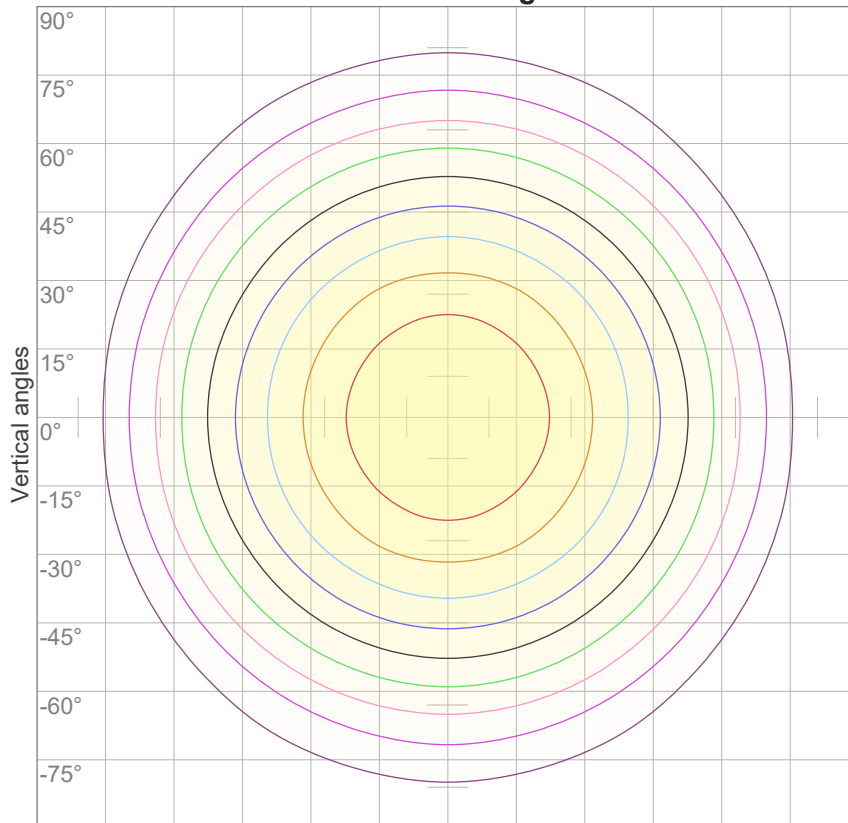
| 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|
| 34.1 | 34.0 | 33.6 | 32.9 | 32.0 | 30.7 | 29.0 | 27.3 | 25.5 | 23.4 | 21.1 | 18.8 | 16.4 | 13.9 | 11.4 | 8.9 | 6.7 | 4.7 | 3.1 | 2.0 |
| 100% | 100% | 99% | 97% | 94% | 90% | 85% | 80% | 75% | 69% | 62% | 55% | 48% | 41% | 33% | 26% | 20% | 14% | 9% | 6% |

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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|
| 34.1 | 33.9 | 33.5 | 32.8 | 31.8 | 30.6 | 29.1 | 27.3 | 25.5 | 23.3 | 21.2 | 18.8 | 16.2 | 13.5 | 10.8 | 8.2 | 5.5 | 2.8 | 0.9 | 0.2 |
| 100% | 99% | 98% | 96% | 93% | 90% | 85% | 80% | 75% | 69% | 62% | 55% | 48% | 40% | 32% | 24% | 16% | 8% | 3% | 1% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 116.8° | 172.9° | 193.6° | 72.8% | 48.9% |

iso-candela diagram



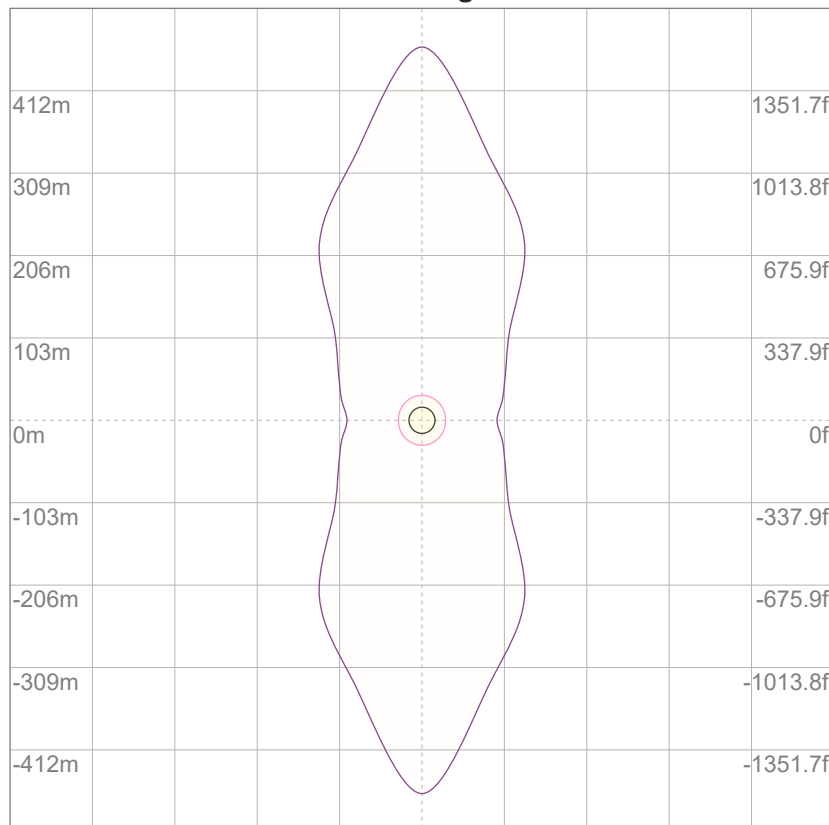
| | |
|-----|-------|
| 10% | 3 cd |
| 20% | 7 cd |
| 30% | 10 cd |
| 40% | 14 cd |
| 50% | 17 cd |
| 60% | 20 cd |
| 70% | 24 cd |
| 80% | 27 cd |
| 90% | 31 cd |

Conditions:

Number of c-planes: 12

Candela at center: 34 cd

iso-lux diagram



| | |
|-----|----------|
| 3% | 10.2m lx |
| 5% | 17.0m lx |
| 10% | 34.1m lx |
| 30% | 0.102 lx |
| 50% | 0.170 lx |

Conditions:

Number of c-planes: 12

Lux at center: 0.341 lx

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

Mounting height: 10 meters (33 feet)

Glare evaluation according to UGR

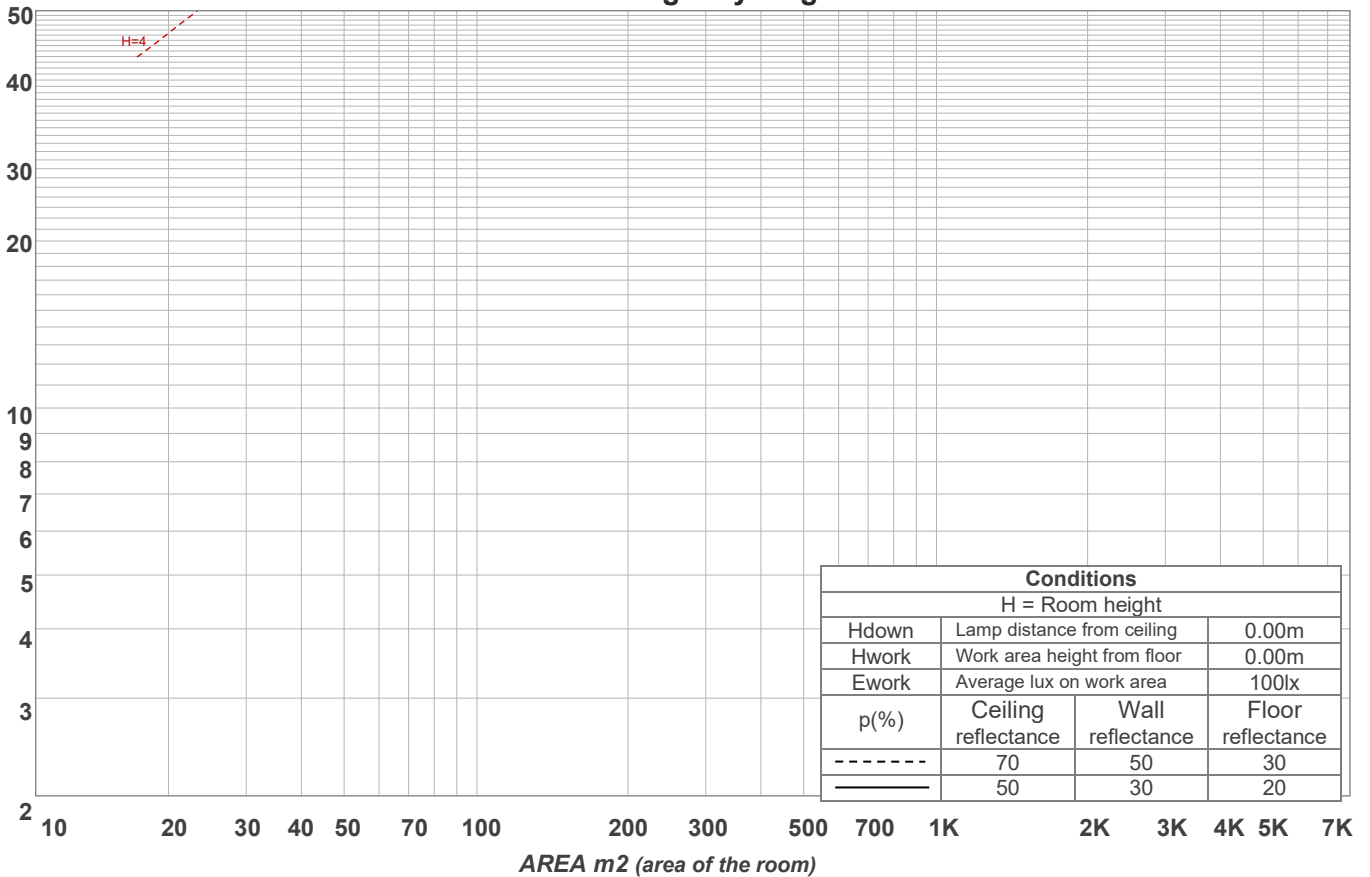
| | | | | | | | | | | | |
|---|-----|---|------|------|------|------|---|------|------|------|------|
| p Ceiling | | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 |
| p Walls | | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 |
| p Floor | | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| Room size X Y | | Viewing direction at right angles to lamp axis | | | | | Viewing direction parallel to lamp axis | | | | |
| 2H | 2H | 16.0 | 17.3 | 16.3 | 17.6 | 17.9 | 17.7 | 18.9 | 18.0 | 19.3 | 19.6 |
| | 3H | 17.3 | 18.6 | 17.7 | 18.9 | 19.1 | 19.3 | 20.6 | 19.8 | 21.0 | 21.2 |
| | 4H | 17.8 | 19.0 | 18.2 | 19.4 | 19.7 | 20.1 | 21.3 | 20.6 | 21.7 | 22.0 |
| | 6H | 18.3 | 19.4 | 18.6 | 19.7 | 20.1 | 20.8 | 21.9 | 21.2 | 22.2 | 22.6 |
| | 8H | 18.4 | 19.5 | 18.8 | 19.8 | 20.3 | 21.1 | 22.1 | 21.4 | 22.5 | 22.9 |
| | 12H | 18.5 | 19.6 | 18.9 | 19.9 | 20.4 | 21.2 | 22.3 | 21.6 | 22.6 | 23.1 |
| 4H | 2H | 16.7 | 17.9 | 17.1 | 18.2 | 18.5 | 18.0 | 19.2 | 18.4 | 19.6 | 19.9 |
| | 3H | 18.2 | 19.2 | 18.6 | 19.6 | 20.1 | 19.9 | 21.0 | 20.3 | 21.3 | 21.8 |
| | 4H | 18.8 | 19.8 | 19.3 | 20.2 | 20.8 | 20.7 | 21.7 | 21.2 | 22.1 | 22.7 |
| | 6H | 19.3 | 20.2 | 19.8 | 20.6 | 21.0 | 21.5 | 22.4 | 22.0 | 22.8 | 23.2 |
| | 8H | 19.5 | 20.3 | 20.0 | 20.7 | 21.2 | 21.7 | 22.6 | 22.3 | 23.0 | 23.4 |
| | 12H | 19.7 | 20.4 | 20.2 | 20.8 | 21.4 | 22.0 | 22.7 | 22.5 | 23.1 | 23.7 |
| 8H | 4H | 19.1 | 19.9 | 19.6 | 20.3 | 20.8 | 20.8 | 21.7 | 21.4 | 22.1 | 22.5 |
| | 6H | 19.8 | 20.4 | 20.3 | 20.9 | 21.5 | 21.7 | 22.3 | 22.2 | 22.8 | 23.4 |
| | 8H | 20.1 | 20.7 | 20.6 | 21.2 | 21.9 | 22.1 | 22.6 | 22.6 | 23.2 | 23.9 |
| | 12H | 20.3 | 20.8 | 20.9 | 21.4 | 22.0 | 22.4 | 22.9 | 23.0 | 23.4 | 24.1 |
| 12H | 4H | 19.1 | 19.8 | 19.6 | 20.3 | 20.8 | 20.8 | 21.5 | 21.4 | 22.0 | 22.5 |
| | 6H | 19.9 | 20.4 | 20.4 | 21.0 | 21.7 | 21.7 | 22.3 | 22.3 | 22.9 | 23.5 |
| | 8H | 20.2 | 20.7 | 20.8 | 21.2 | 21.9 | 22.1 | 22.6 | 22.7 | 23.2 | 23.8 |
| Variation of the observer position for the luminaire distance S | | | | | | | | | | | |
| S = 1.0H | | 0.1 / -0.1 | | | | | 0.1 / -0.1 | | | | |
| S = 1.5H | | 0.2 / -0.3 | | | | | 0.3 / -0.4 | | | | |
| S = 2.0H | | 0.4 / -0.6 | | | | | 0.8 / -0.8 | | | | |
| CIE 117-1995. Corrected glare indices referring to 108 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 | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 110 | 110 | 110 | 105 | 105 | 105 | 100 | 100 | 100 | 98 |
| 1 | 107 | 102 | 97 | 93 | 104 | 99 | 95 | 91 | 94 | 91 | 88 | 90 | 87 | 85 | 86 | 84 | 82 | 79 |
| 2 | 97 | 88 | 81 | 75 | 94 | 86 | 79 | 73 | 82 | 76 | 71 | 78 | 74 | 69 | 75 | 71 | 67 | 65 |
| 3 | 88 | 77 | 68 | 61 | 85 | 75 | 67 | 61 | 72 | 65 | 59 | 69 | 63 | 58 | 66 | 61 | 57 | 54 |
| 4 | 80 | 68 | 59 | 52 | 78 | 66 | 58 | 51 | 64 | 56 | 50 | 61 | 54 | 49 | 58 | 53 | 48 | 46 |
| 5 | 74 | 60 | 51 | 44 | 71 | 59 | 50 | 44 | 57 | 49 | 43 | 55 | 48 | 43 | 52 | 47 | 42 | 40 |
| 6 | 68 | 54 | 45 | 39 | 66 | 53 | 45 | 38 | 51 | 43 | 38 | 49 | 42 | 37 | 47 | 41 | 37 | 34 |
| 7 | 63 | 49 | 40 | 34 | 61 | 48 | 40 | 34 | 46 | 39 | 33 | 45 | 38 | 33 | 43 | 37 | 32 | 30 |
| 8 | 59 | 45 | 36 | 30 | 57 | 44 | 36 | 30 | 42 | 35 | 30 | 41 | 34 | 29 | 40 | 34 | 29 | 27 |
| 9 | 55 | 41 | 33 | 27 | 53 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 26 | 37 | 31 | 26 | 24 |
| 10 | 51 | 38 | 30 | 24 | 50 | 37 | 30 | 24 | 36 | 29 | 24 | 35 | 29 | 24 | 34 | 28 | 24 | 22 |

LAMPS (number of lamps)

Luminaire budgetary diagram



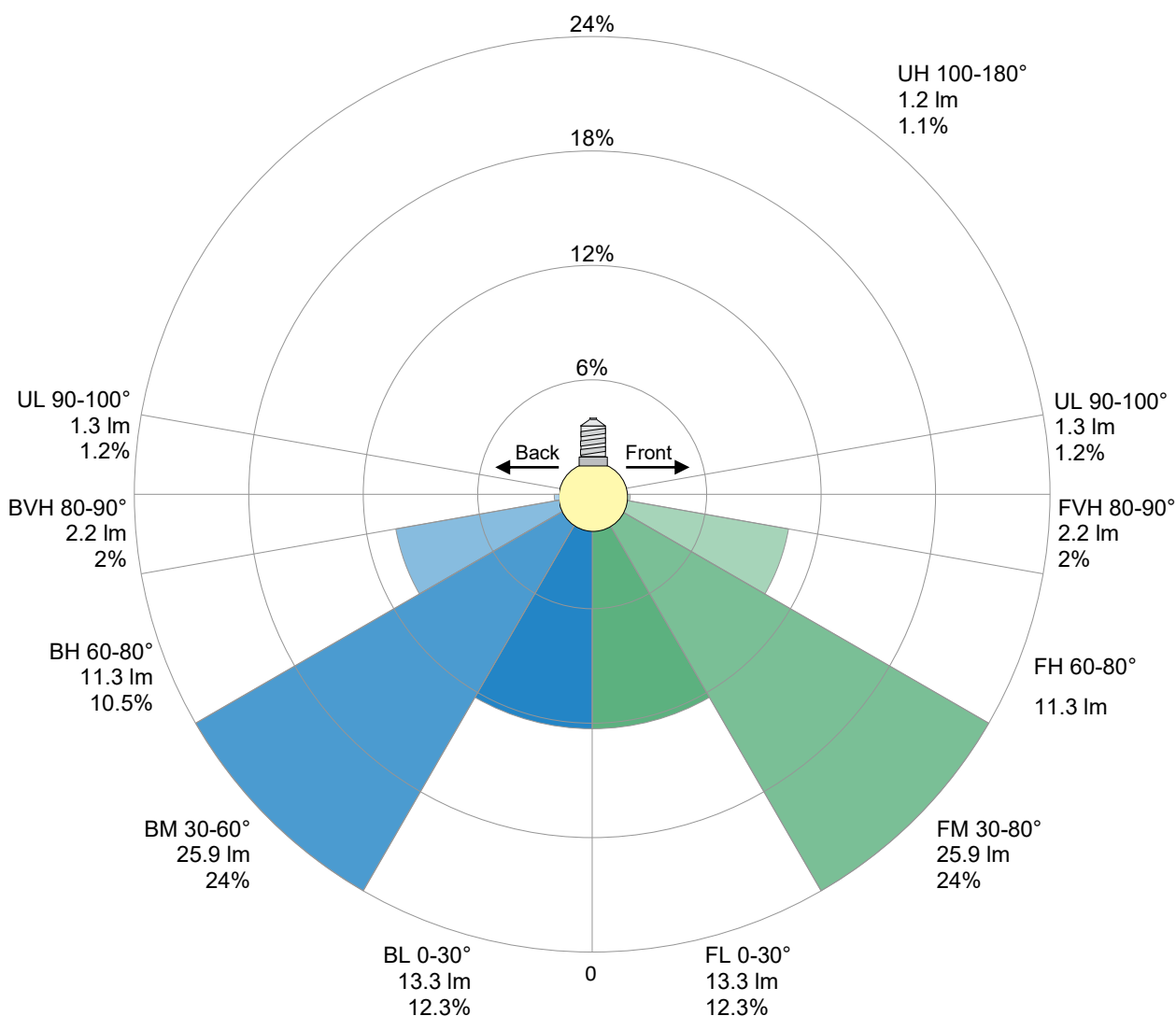
Zonal Lumen Summary

| 0°-10° | 10°-20° | 20°-30° | 30°-40° | 40°-50° | 50°-60° | 60°-70° | 70°-80° | 80°-90° |
|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 3.22 lm | 9.27 lm | 14.1 lm | 17.1 lm | 18.1 lm | 16.8 lm | 13.6 lm | 9.02 lm | 4.27 lm |
| 90°-100° | 100°-110° | 110°-120° | 120°-130° | 130°-140° | 140°-150° | 150°-160° | 160°-170° | 170°-180° |
| 1.30 lm | 0.455 lm | 0.277 lm | 0.222 lm | 0.103 lm | 0.054 lm | 0.047 lm | 0.026 lm | 0.009 lm |

LCS table

| BUG rating: | B0 U1 G0 | |
|-------------------|----------|----------|
| Forward light | Lumens | Lumens % |
| Low(0-30): | 13.3 | 12.3% |
| Medium(30-60): | 25.9 | 24% |
| High(60-80): | 11.3 | 10.5% |
| Very high(80-90): | 2.2 | 2% |
| Back light | | |
| Low(0-30): | 13.3 | 12.3% |
| Medium(30-60): | 25.9 | 24% |
| High(60-80): | 11.3 | 10.5% |
| Very high(80-90): | 2.2 | 2% |
| Uplight | | |
| Low(90-100): | 1.3 | 1.2% |
| High(100-180): | 1.2 | 1.1% |

LCS graph



Flicker curve (complete sampled flicker signal)



Flicker frame (frame of one flicker period)



Flicker FFT (frequency scope of flicker curve)



Flicker results:

| Flicker frequency: | | n/a Hz | |
|-----------------------|-------|---------------|-------|
| Flicker index: | n/a | JA8/10 40Hz | n/a % |
| Flicker percentage: | n/a % | JA8/10 90Hz | n/a % |
| SVM: (Visual flicker) | n/a | JA8/10 200Hz | n/a % |
| PstLM | n/a | JA8/10 400Hz | n/a % |
| Mp | n/a | JA8/10 1000Hz | n/a % |

Flicker conditions:

| | |
|--------------|--------------------|
| Sample rate: | n/a samples/second |
|--------------|--------------------|