

Light Measurement Report

Print date: 5-5-2025

Measurement date and time: 5-5-2025 14:14:35 – Measurement no. VFR-250505-1075-MS

Measurement tracking No. and Link: [VT250505-005551](#)

Operator:



Laboratory and Equipment

Laboratory Owner and Location
Goniospectrometer System and Type
Sensor Name, Calibr. Date and Serial No.
Spectrometer Manufacturer and Model

Viso Systems, Copenhagen V, Denmark
LabSpion – Type C, horizontal
LabSensor Model2 – 11-1-2024 – 3130191315
Ibsen Photonics, Denmark – Freedom VIS (Custom Viso)

Measurement Conditions

Number of C-planes and Resolution
 γ (gamma)-Resolution
Test Distance
Input Power, Power and Displ. Factors
Input RMS Voltage and Current
Frequency of Input Power
Warm-up Time and Variation

12 planes – 30°
5°
9,24 m
35,7 W – PF 0,96 – DPF 0,97
230 V – 0,162 A
50 Hz
Lamp stabilized in 15 min 1 sec – 2,0%

Tested Light Source

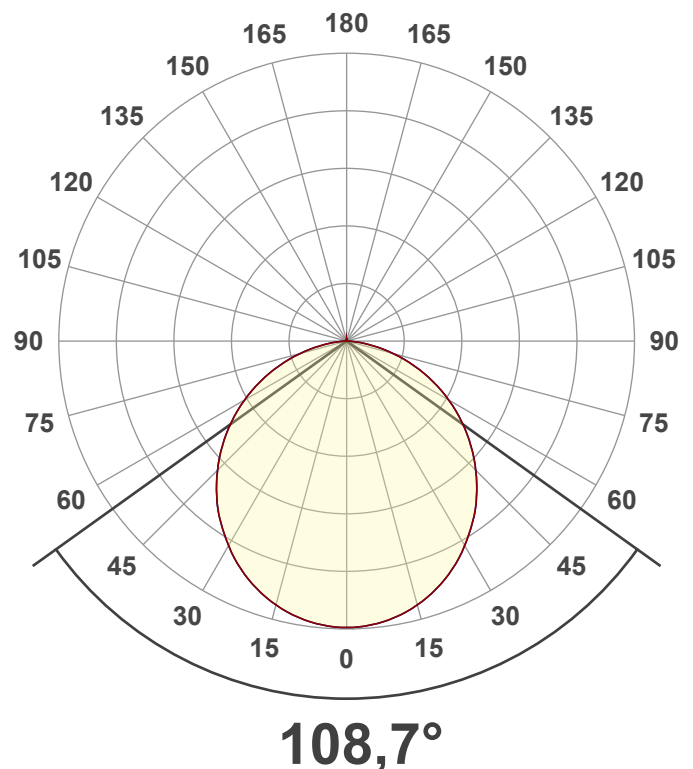
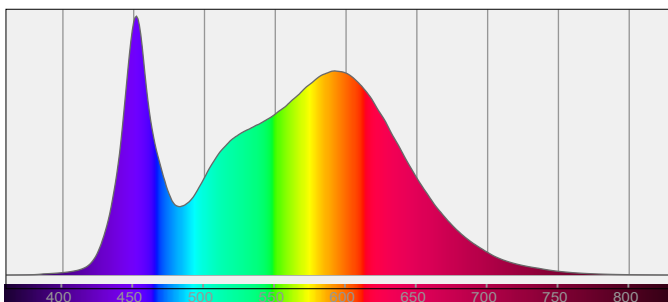
Product Name
Item No. and Manufacturer
Product Description (line 1)

806071-4000K
806071-4000K – Dutchfulfillment
LED MINI TRI-PROOF | HALIFAX | 120CM | 36W

Main Light Measurement Results

Output – Total Lumen (Up% / Down%)
Efficiency
Peak Intensity and Beam Angle
Correlated Color Temperature, Target/Measured
Color Rendering Index
Color Rendering TM30-18
Color Shift, CIE duv and MacAdam Steps
Flicker

2922 lm – 0,78% / 99,22%
82 lm/W
1062 cd – 108,7°
CCT = 4000 K / 4304 K
CRI 84,2
 R_f 83,5 – R_g 96,3
Duv -0,0043 – SDCM 7,4
SVM 1,36 – PstLM 0,06



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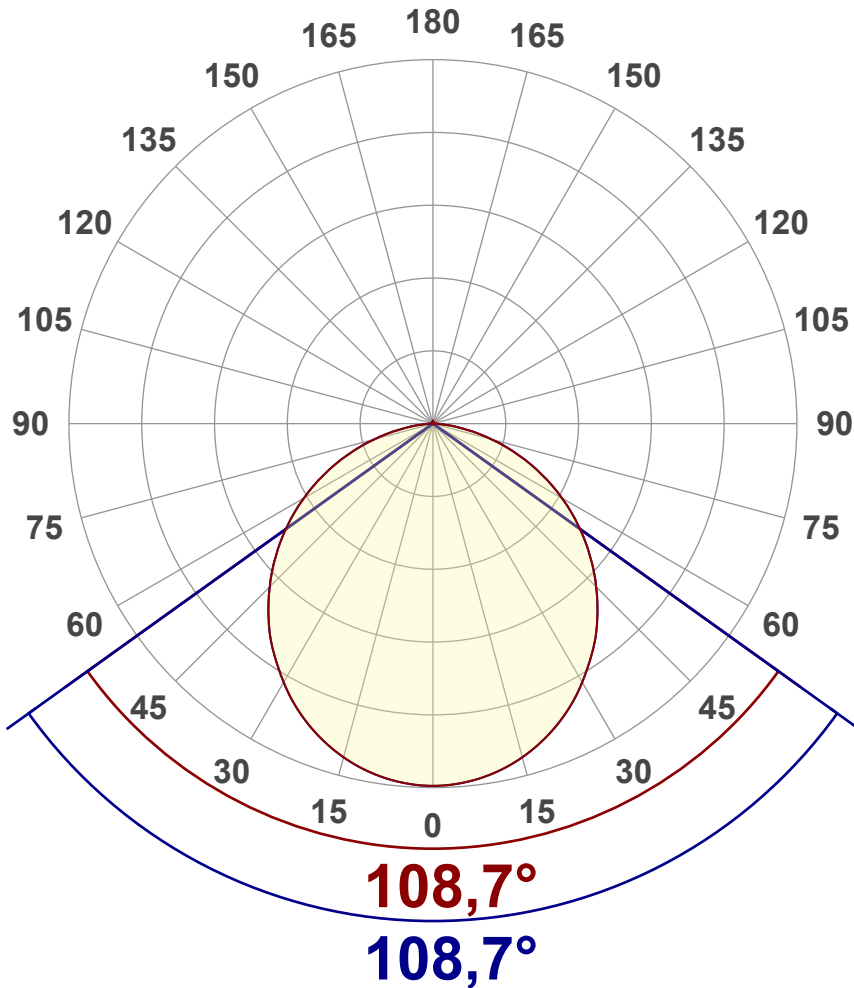
Measurement tracking No. and Link: [VT250505-005551](#)

Operator:



Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

| | |
|----------------------|----------------|
| Output (total Lumen) | 2922 lm |
| Lumen Up% / Down% | 0,78% / 99,22% |
| Peak Intensity | 1062 cd |
| Beam Angle (50%) | 108,7° |
| Beam Angle (90%) | 108,7° |
| Beam Angle (10%) | 108,7° |

Cut-off Angle

| | |
|--------------|--------|
| Average 2,5% | 172,6° |
|--------------|--------|

Field Angle

| | |
|-------------|--------|
| Average 10% | 159,4° |
|-------------|--------|

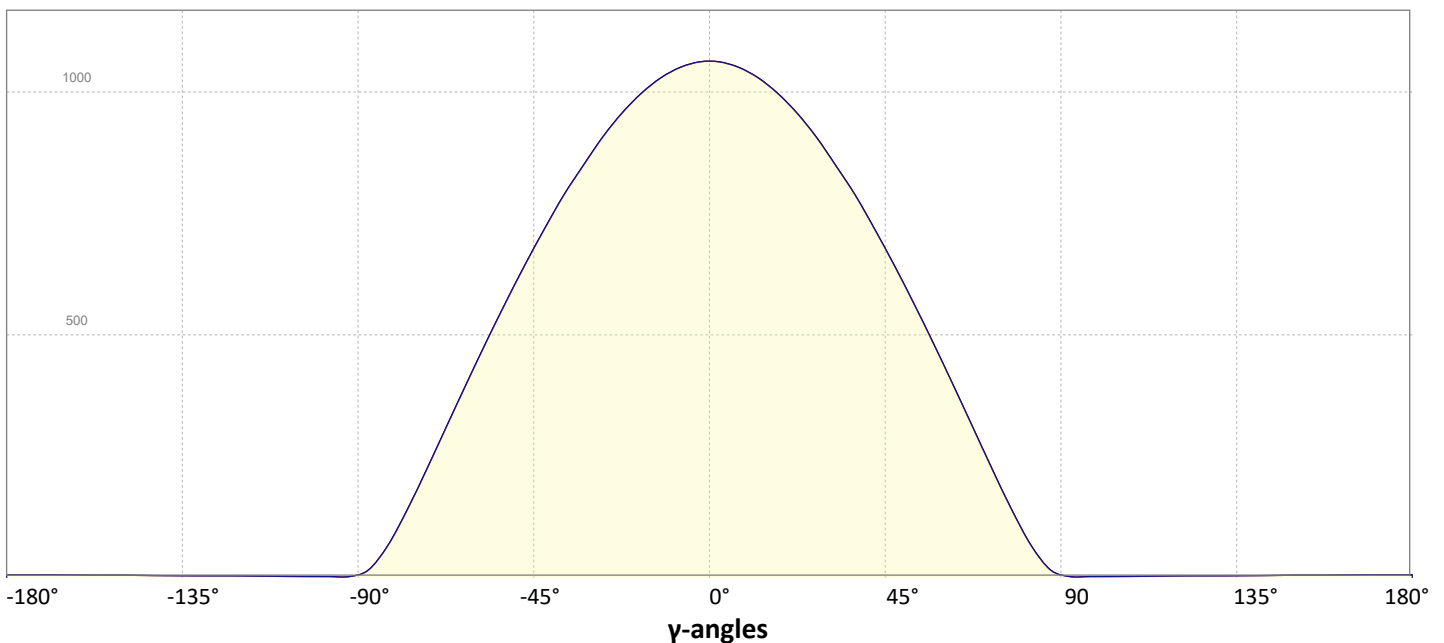
Intensity Ratio

| | |
|--------------|-------|
| In 120° cone | 79,3% |
| In 90° cone | 54,5% |

C000-C180

C090-C270

Linear distribution diagram - Intensity (candela) vs γ -angle



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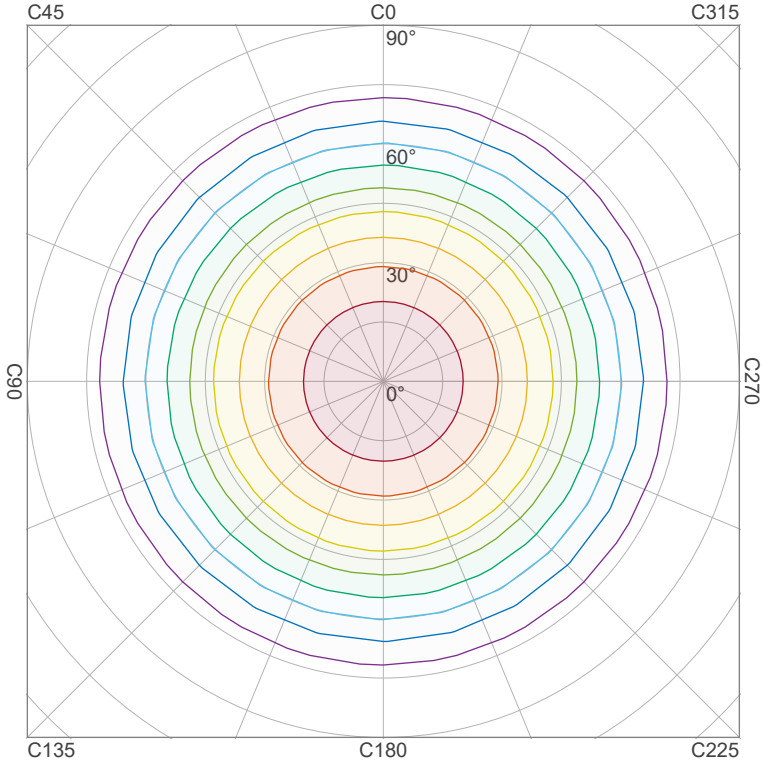
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Operator:



Iso-intensity Diagram (Iso-candela)

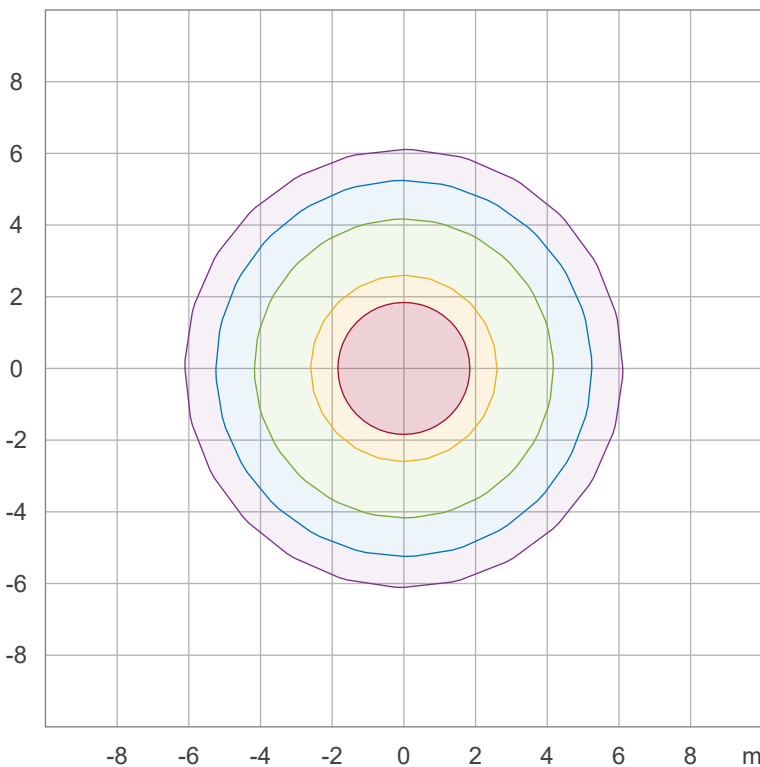


| | |
|------|----------|
| 90 % | 955,9 cd |
| 80 % | 849,7 cd |
| 70 % | 743,5 cd |
| 60 % | 637,3 cd |
| 50 % | 531,1 cd |
| 40 % | 424,8 cd |
| 30 % | 318,6 cd |
| 20 % | 212,4 cd |
| 10 % | 106,2 cd |

Peak intensity: 1062,1 cd

Number of c-planes: 12

Iso-illuminance Diagram (Iso-lux)



| | |
|--------|---------|
| 50,0 % | 59,0 lx |
| 30,0 % | 35,4 lx |
| 10,0 % | 11,8 lx |
| 5,0 % | 5,9 lx |
| 3,0 % | 3,5 lx |

Peak illuminance: 118,0 lx

Mounting height: 3,0 m

Number of c-planes: 12

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Operator:



Color details

Correlated Color Temperature, Target CCT = 4000 K
 Correlated Color Temperature, Measured CCT = 4304 K
 Color Rendering Index CRI 84,2
 Color Rendering Index, R9 (red component) R9 = 12,7
 Color Rendering TM30-18 R_f 83,5 – R_g 96,3
 Color Quality Scale CQS = 81,3

MacAdam Steps SDCM = 7,4
 Color coordinates CIE 1931 (x;y) = (0,381;0,377)
 Color coordinate CIEs 1960 (u;v) = (0,225;0,334)
 Color deviation from BBL Duv = -0,0043
 Color coordinate CIEs 1976 (CIELUV) (u';v') = (0,225;0,502)

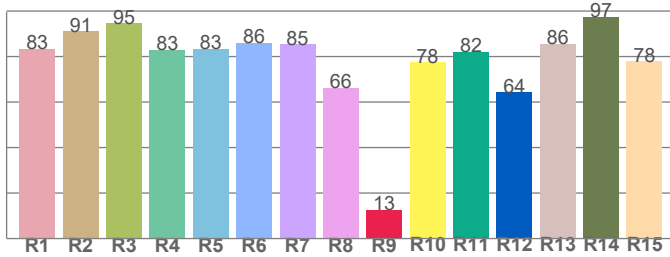
CIE 1931



CIE 1931 – zoomed on Planckian locus



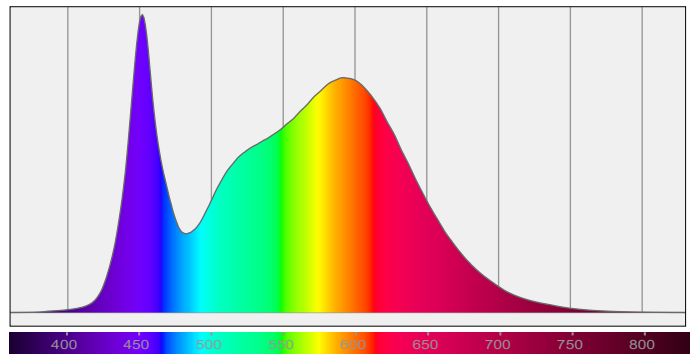
Color Rendering Index per reference color (CIE 1995)



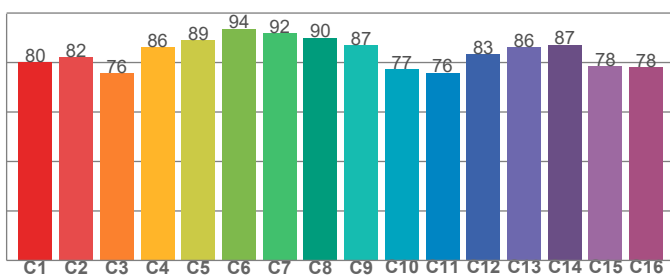
CRI R values, only R1-R8 are used to calculate final CRI value

| | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
| 83,4 | 91,0 | 94,6 | 83,0 | 83,5 | 86,1 | 85,4 | 66,3 | 12,7 | 77,6 | 82,1 | 64,3 | 85,7 | 97,4 | 77,9 |

Spectral power distribution (SPD) / W/nm – 0-100%



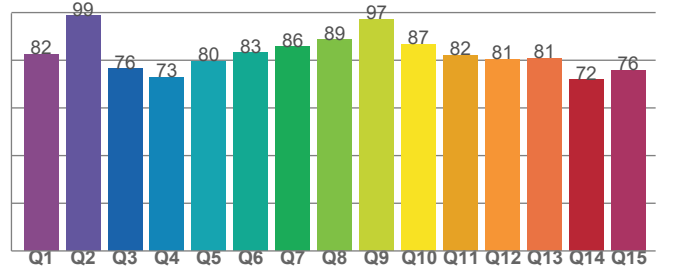
TM30-18 R_f-values per hue bin



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 |
| 80,1 | 82,1 | 75,8 | 86,1 | 89,1 | 93,7 | 91,8 | 90,1 | 87,0 | 77,4 | 75,9 | 83,2 | 86,1 | 87,2 | 78,5 | 78,2 |

Color Quality Scale by reference color



CQS Q values

| | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
| 82,4 | 98,6 | 76,5 | 72,8 | 79,6 | 83,1 | 85,7 | 88,7 | 97,3 | 86,7 | 82,2 | 80,5 | 80,8 | 71,9 | 75,7 |

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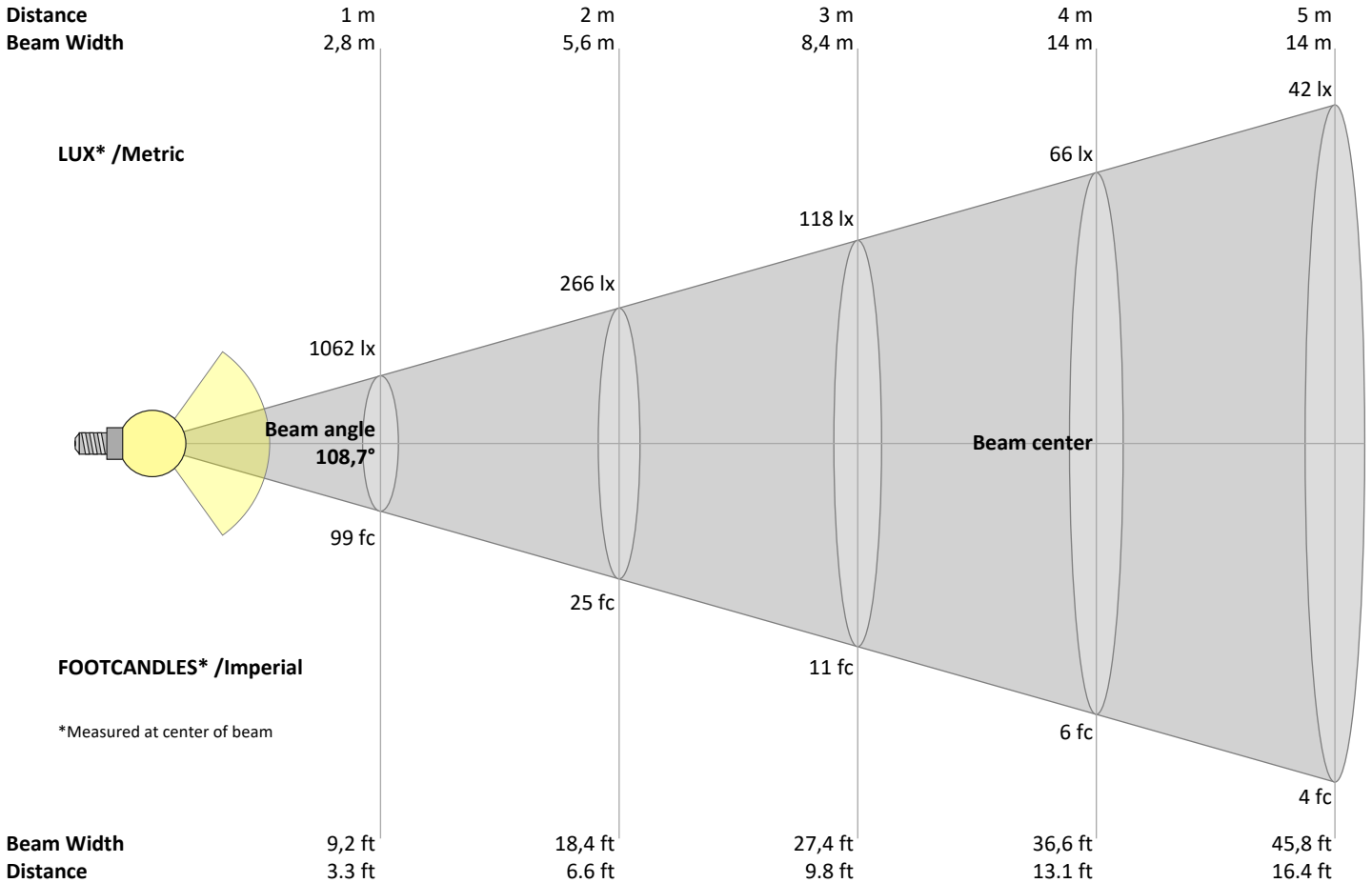
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Operator:



Beam Details



Beam intensities from 1 – 20 m

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | m |
|------|------|-----|------|------|------|----|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| 3,3 | 6,6 | 9,8 | 13,1 | 16,4 | 19,7 | 23 | 26,2 | 29,5 | 32,8 | 36,1 | 39,4 | 42,7 | 45,9 | 49,2 | 52,5 | 55,8 | 59,1 | 62,3 | 65,6 | ft |
| 1062 | 266 | 118 | 66 | 42 | 30 | 22 | 17 | 13 | 11 | 9 | 7 | 6 | 5 | 5 | 4 | 4 | 3 | 3 | 3 | lux |
| 98,7 | 24,7 | 11 | 6,2 | 3,9 | 2,7 | 2 | 1,5 | 1,2 | 1 | 0,8 | 0,7 | 0,6 | 0,5 | 0,4 | 0,4 | 0,3 | 0,3 | 0,3 | 0,2 | fc |

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° | γ |
|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|
| 1062 | 1056 | 1040 | 1013 | 976 | 931 | 876 | 816 | 750 | 677 | 601 | 521 | 437 | 352 | 265 | 180 | 102 | 40 | 9 | 2 | cd |
| 100% | 99% | 98% | 95% | 92% | 88% | 82% | 77% | 71% | 64% | 57% | 49% | 41% | 33% | 25% | 17% | 10% | 4% | 1% | 0% | of 0°val |

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° | γ |
|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|
| 1062 | 1056 | 1040 | 1013 | 976 | 931 | 876 | 816 | 750 | 677 | 601 | 521 | 437 | 352 | 265 | 180 | 102 | 40 | 9 | 2 | cd |
| 100% | 99% | 98% | 95% | 92% | 88% | 82% | 77% | 71% | 64% | 57% | 49% | 41% | 33% | 25% | 17% | 10% | 4% | 1% | 0% | of 0°val |

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° | γ |
|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|
| 1062 | 1056 | 1040 | 1013 | 976 | 931 | 876 | 816 | 750 | 677 | 601 | 521 | 437 | 352 | 265 | 180 | 102 | 40 | 9 | 2 | cd |
| 100% | 99% | 98% | 95% | 92% | 88% | 82% | 77% | 71% | 64% | 57% | 49% | 41% | 33% | 25% | 17% | 10% | 4% | 1% | 0% | of 0°val |

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° | γ |
|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|
| 1062 | 1056 | 1040 | 1013 | 976 | 931 | 876 | 816 | 750 | 677 | 601 | 521 | 437 | 352 | 265 | 180 | 102 | 40 | 9 | 2 | cd |
| 100% | 99% | 98% | 95% | 92% | 88% | 82% | 77% | 71% | 64% | 57% | 49% | 41% | 33% | 25% | 17% | 10% | 4% | 1% | 0% | of 0°val |

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Operator:



Light Planning – UGR table

Uncorrected, comprehensive UGR table according to 117-1995

| Reflectances | | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 |
|-------------------------------------|-----------|--|------|------|------|------|--|------|------|------|------|
| | ρ Ceiling | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 |
| | ρ Walls | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 |
| | ρ Floor | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| Room size | | Viewed Crosswise | | | | | Viewed Endwise | | | | |
| H = mounting height above eye level | | (Viewing direction orthogonal to lamp length axis) | | | | | (Viewing direction parallel to lamp length axis) | | | | |
| X | Y | | | | | | | | | | |
| 2H | 2H | 22,9 | 24,1 | 23,1 | 24,4 | 24,7 | 23,3 | 24,5 | 23,6 | 24,8 | 25,1 |
| | 3H | 24,1 | 25,4 | 24,6 | 25,7 | 25,9 | 24,7 | 25,9 | 25,1 | 26,2 | 26,5 |
| | 4H | 24,6 | 25,8 | 25,0 | 26,1 | 26,4 | 25,3 | 26,5 | 25,7 | 26,7 | 27,0 |
| | 6H | 25,0 | 26,0 | 25,3 | 26,3 | 26,7 | 25,7 | 26,8 | 26,0 | 27,0 | 27,4 |
| | 8H | 25,0 | 26,0 | 25,4 | 26,3 | 26,8 | 25,8 | 26,8 | 26,2 | 27,1 | 27,6 |
| | 12H | 25,0 | 26,0 | 25,4 | 26,3 | 26,8 | 25,9 | 26,8 | 26,2 | 27,2 | 27,7 |
| 4H | 2H | 23,5 | 24,7 | 23,9 | 24,9 | 25,2 | 23,8 | 25,0 | 24,2 | 25,3 | 25,5 |
| | 3H | 25,0 | 26,0 | 25,4 | 26,3 | 26,8 | 25,5 | 26,5 | 25,9 | 26,8 | 27,3 |
| | 4H | 25,5 | 26,4 | 26,0 | 26,8 | 27,4 | 26,1 | 27,0 | 26,5 | 27,4 | 28,0 |
| | 6H | 25,9 | 26,7 | 26,4 | 27,1 | 27,5 | 26,6 | 27,4 | 27,1 | 27,8 | 28,2 |
| | 8H | 26,0 | 26,7 | 26,5 | 27,1 | 27,5 | 26,7 | 27,5 | 27,2 | 27,9 | 28,3 |
| | 12H | 26,0 | 26,7 | 26,5 | 27,1 | 27,6 | 26,8 | 27,4 | 27,3 | 27,9 | 28,4 |
| 8H | 4H | 25,8 | 26,5 | 26,3 | 26,9 | 27,3 | 26,3 | 27,1 | 26,8 | 27,4 | 27,8 |
| | 6H | 26,2 | 26,8 | 26,7 | 27,3 | 27,9 | 26,9 | 27,5 | 27,4 | 27,9 | 28,5 |
| | 8H | 26,4 | 26,9 | 26,9 | 27,4 | 28,1 | 27,1 | 27,6 | 27,6 | 28,1 | 28,8 |
| | 12H | 26,5 | 26,9 | 27,1 | 27,4 | 28,0 | 27,2 | 27,7 | 27,8 | 28,2 | 28,8 |
| 12H | 4H | 25,7 | 26,4 | 26,3 | 26,8 | 27,3 | 26,3 | 26,9 | 26,8 | 27,3 | 27,8 |
| | 6H | 26,3 | 26,8 | 26,8 | 27,3 | 28,0 | 26,9 | 27,4 | 27,4 | 28,0 | 28,6 |
| | 8H | 26,5 | 26,9 | 27,0 | 27,4 | 28,0 | 27,1 | 27,6 | 27,7 | 28,1 | 28,7 |

Variations with the observer position for the luminaire spacings, S:

| | | |
|----------|------------|------------|
| S = 1.0H | 0,1 / -0,1 | 0,1 / -0,1 |
| S = 1.5H | 0,2 / -0,4 | 0,2 / -0,2 |
| S = 2.0H | 0,6 / -0,7 | 0,5 / -0,7 |

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 Lumen delivered to the task surface | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 106 | 106 | 106 | 101 | 101 | 101 | 99 | |
| 1 | 109 | 104 | 100 | 96 | 106 | 102 | 98 | 94 | 97 | 94 | 91 | 93 | 91 | 88 | 90 | 88 | 86 | 84 |
| 2 | 99 | 91 | 84 | 78 | 96 | 89 | 83 | 77 | 85 | 80 | 76 | 82 | 77 | 74 | 79 | 75 | 72 | 70 |
| 3 | 90 | 80 | 72 | 65 | 88 | 78 | 71 | 65 | 75 | 69 | 63 | 72 | 67 | 62 | 70 | 65 | 61 | 59 |
| 4 | 83 | 71 | 62 | 55 | 80 | 69 | 61 | 55 | 67 | 60 | 54 | 64 | 58 | 53 | 62 | 57 | 52 | 50 |
| 5 | 76 | 63 | 54 | 48 | 74 | 62 | 54 | 47 | 60 | 53 | 47 | 58 | 51 | 46 | 56 | 50 | 46 | 44 |
| 6 | 70 | 57 | 48 | 42 | 68 | 56 | 48 | 41 | 54 | 47 | 41 | 52 | 46 | 41 | 51 | 45 | 40 | 38 |
| 7 | 65 | 52 | 43 | 37 | 63 | 51 | 43 | 37 | 49 | 42 | 36 | 48 | 41 | 36 | 46 | 40 | 36 | 34 |
| 8 | 61 | 47 | 39 | 33 | 59 | 46 | 38 | 33 | 45 | 38 | 33 | 44 | 37 | 32 | 43 | 37 | 32 | 30 |
| 9 | 57 | 43 | 35 | 30 | 55 | 43 | 35 | 30 | 41 | 34 | 29 | 40 | 34 | 29 | 39 | 33 | 29 | 27 |
| 10 | 53 | 40 | 32 | 27 | 52 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 26 | 36 | 31 | 26 | 25 |

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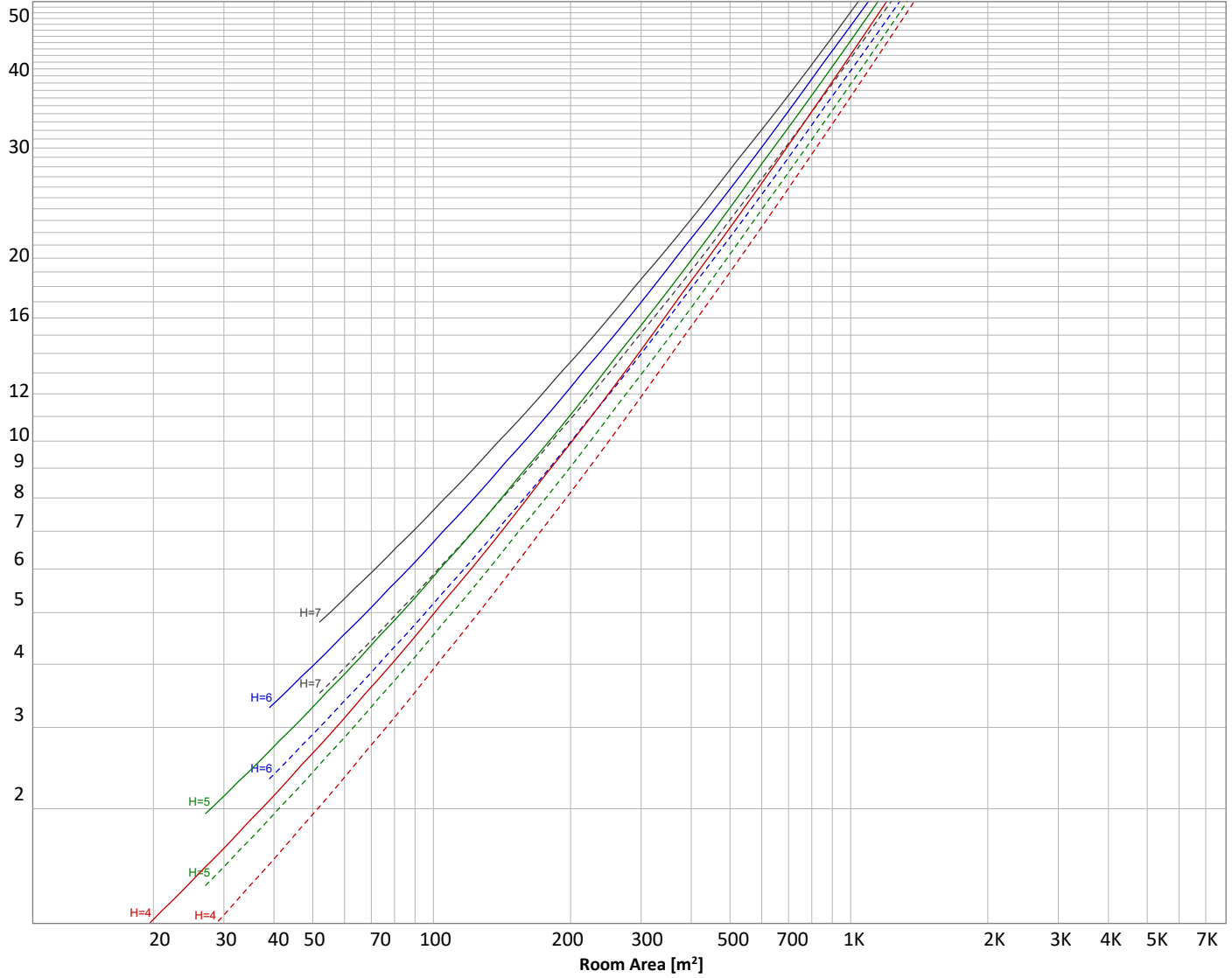
Operator:



Luminaire budgetary diagram

Uncorrected, comprehensive UGR table according to 117-1995

LAMPS (number of lamps)



Conditions

| | | | | | |
|---|----------------|-----------|---------------------|--------------------------|-------------------|
| H = Room height | Flux = 2922 lm | | | | |
| H _{down} = Lamp distance from ceiling = | 0.00 m | Line type | Ceiling reflectance | ρ(%) Wall reflectance | Floor reflectance |
| H _{work} = Work area height from floor = | 0.00 m | ----- | 70 | 50 | 30 |
| E _{work} = Average lux on work area = | 100 lx | ————— | 50 | 30 | 20 |

Zonal Lumen Summary

| | | | | | | | | |
|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0°-10° | 10°-20° | 20°-30° | 30°-40° | 40°-50° | 50°-60° | 60°-70° | 70°-80° | 80°-90° |
| 101 lm | 286 lm | 430 lm | 511 lm | 523 lm | 466 lm | 348 lm | 190 lm | 43,9 lm |
| 90°-100° | 100°-110° | 110°-120° | 120°-130° | 130°-140° | 140°-150° | 150°-160° | 160°-170° | 170°-180° |
| 2,57 lm | 2,79 lm | 3,27 lm | 3,43 lm | 3,13 lm | 3,00 lm | 2,46 lm | 1,63 lm | 0,569 lm |

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Outdoor Light Planning

Lumen per Zone

| Zone (γ) | Lumen | % Total |
|--------------|----------------|---------------|
| 0-10° | 101 lm | 3,4% |
| 10-20° | 286 lm | 9,8% |
| 20-30° | 430 lm | 14,7% |
| 30-40° | 511 lm | 17,5% |
| 40-50° | 523 lm | 17,9% |
| 50-60° | 466 lm | 15,9% |
| 60-70° | 348 lm | 11,9% |
| 70-80° | 190 lm | 6,5% |
| 80-90° | 44 lm | 1,5% |
| 90-100° | 3 lm | 0,1% |
| 100-110° | 3 lm | 0,1% |
| 110-120° | 3 lm | 0,1% |
| 120-130° | 3 lm | 0,1% |
| 130-140° | 3 lm | 0,1% |
| 140-150° | 3 lm | 0,1% |
| 150-160° | 2 lm | 0,1% |
| 160-170° | 2 lm | 0,1% |
| 170-180° | 1 lm | 0,0% |
| Total | 2922 lm | 100,0% |

Intensity peaks

| | |
|----------------|---------|
| Max intensity | 1062 cd |
| Intensity, 90° | 9 cd |
| Intensity, 0° | 1062 cd |

Zonal Lumen summary

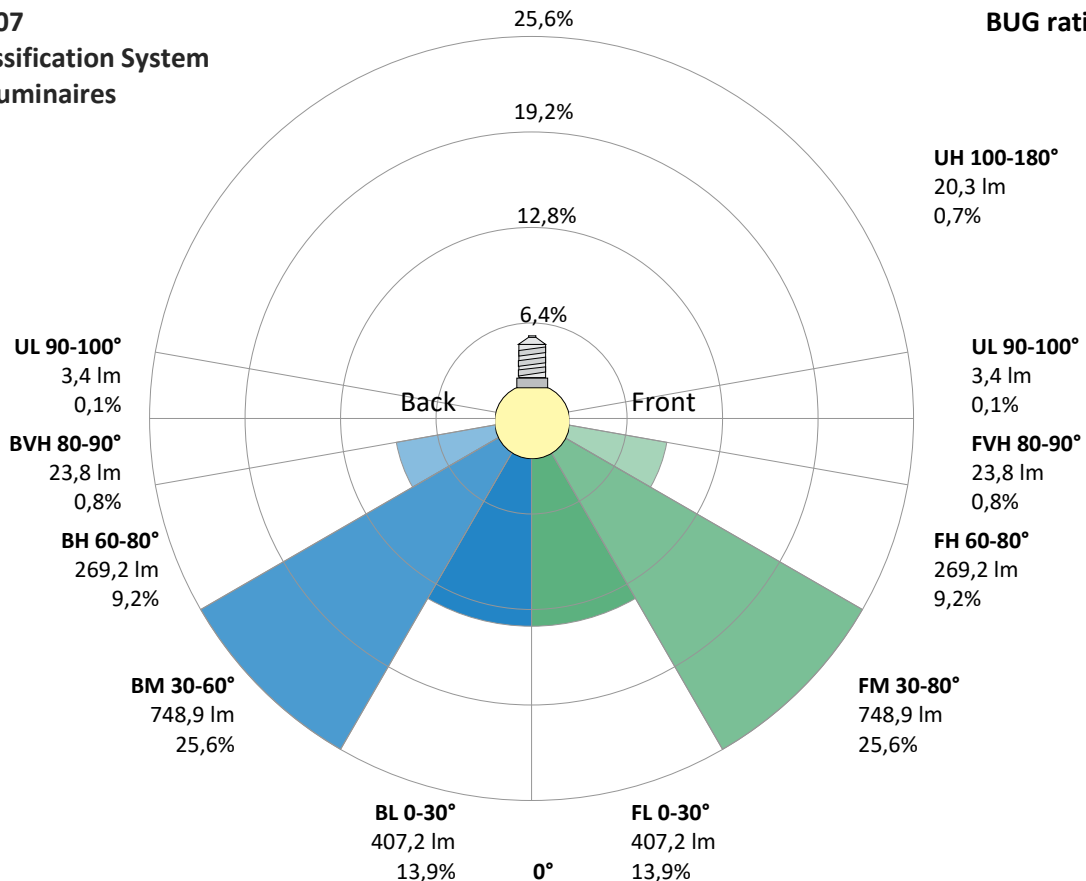
| Zone (γ) | Lumen | % Total |
|----------|---------|---------|
| 0-30° | 816 lm | 27,9% |
| 0-40° | 1328 lm | 45,4% |
| 0-60° | 2317 lm | 79,3% |
| 60-90° | 582 lm | 19,9% |
| 70-100° | 236 lm | 8,1% |
| 90-120° | 9 lm | 0,3% |
| 0-90° | 2899 lm | 99,2% |
| 90-180° | 23 lm | 0,8% |
| 0-180° | 2922 lm | 100,0% |

BUG rating

| | Lumen | % Total |
|----------------------|--------|---------|
| Forward light | | |
| Low(0-30°) | 407 lm | 13,9% |
| Medium(30-60°) | 749 lm | 25,6% |
| High(60-80°) | 269 lm | 9,2% |
| Very high(80-90°) | 24 lm | 0,8% |
| Back light | | |
| Low(0-30°) | 407 lm | 13,9% |
| Medium(30-60°) | 749 lm | 25,6% |
| High(60-80°) | 269 lm | 9,2% |
| Very high(80-90°) | 24 lm | 0,8% |
| Uplight | | |
| Low(90-100°) | 3 lm | 0,1% |
| High(100-180°) | 20 lm | 0,7% |

IESNA TM-15-07 Luminaire Classification System For Outdoor Luminaires

BUG rating B1 U2 G1



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Measurement tracking No. and Link: [VT250505-005551](#)

Operator:

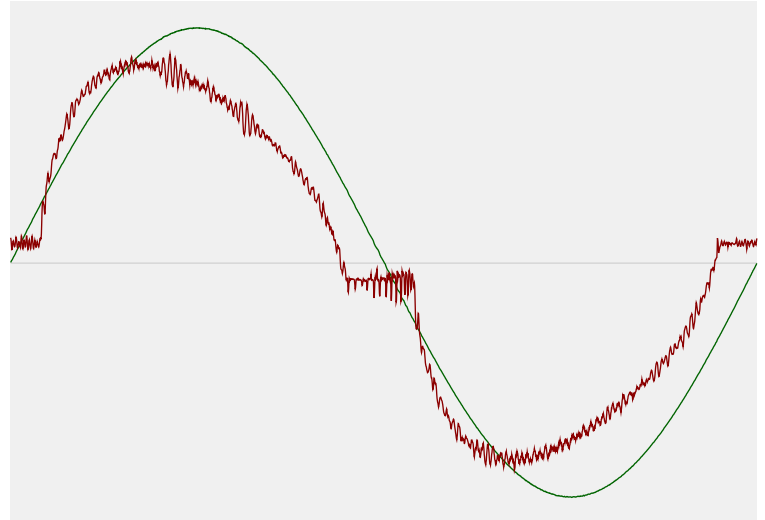


Power Details

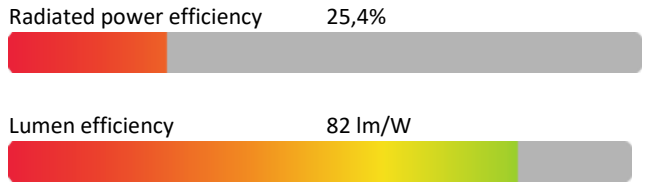
Input Power

| | |
|---|----------|
| Power feed to light source | 35,7 W |
| Frequency of input power | 50 Hz |
| RMS Input voltage feed, V_{RMS} | 230 V |
| RMS Input current feed, I_{RMS} | 0,162 A |
| Volt-Ampere or apparent power = $V_{RMS} * I_{RMS}$ | 37,22 VA |
| Displacement factor of AC power feed | 0,97 |
| Power factor of AC current feed | 0,96 |
| Total harmonic distortion of the current | 14,66% |
| Total harmonic distortion of the voltage | 0,07% |

Input Power Curve



Efficiency



Stabilization Details

Warmup Conditions

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

Color Temperature Change

| | |
|-----------|--------|
| CCT start | 3992 K |
| CCT shift | +8 K |
| CCT end | 4000 K |

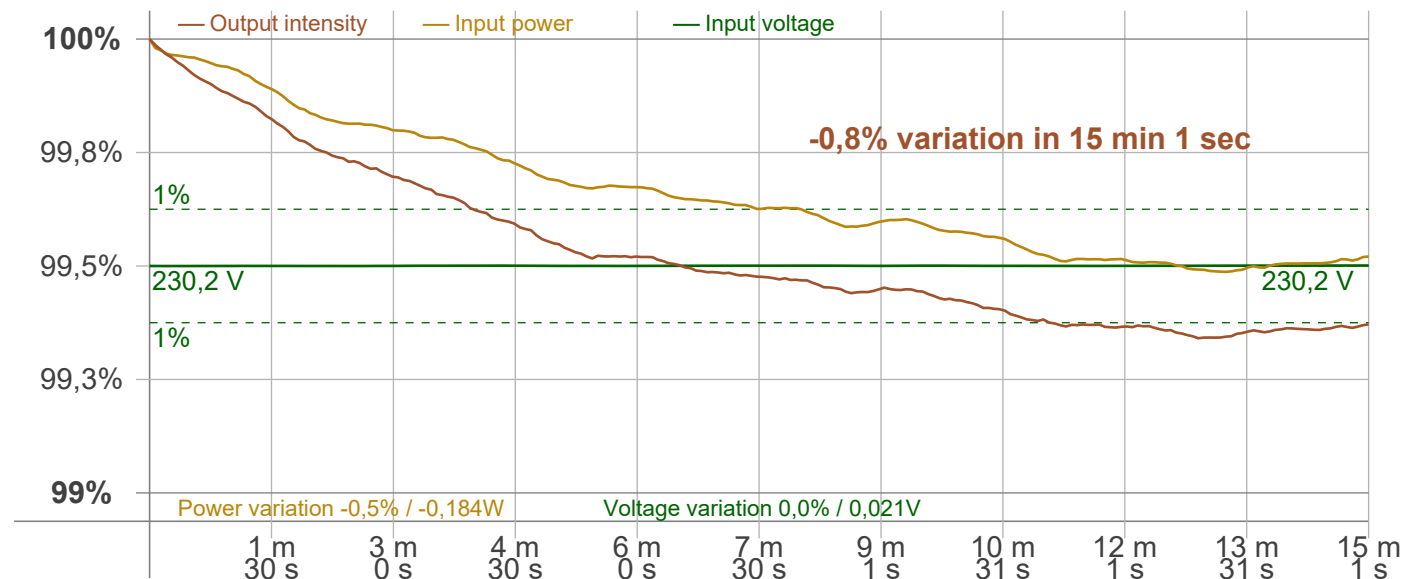
Warmup Result

| | |
|-------------------|---------------------------------|
| Total warmup time | Lamp stabilized in 15 min 1 sec |
| Warmup variation | -0,8% |

Output Change

| | |
|---------------|---------|
| Output start | 2942 lm |
| Output change | -20 lm |
| Output end | 2922 lm |

Stabilization Curve



Light Measurement Report

Print date: 5-5-2025

Measurement date and time: 5-5-2025 14:14:35 – Measurement no. VFR-250505-1075-MS

Measurement tracking No. and Link: [VT250505-005551](#)

Operator:



Flicker /TLA details

Flicker Meter Type: Viso Systems LabFlicker
 Frequency of input power: 50 Hz
 Flicker/TLA sample rate: 20000 samples/s

Measurement time
 PstLM: 180 sec
 All other indices: 1,2 sec

Flicker indices according to Illuminating Engineering Society (IES)

Flicker frequency: 100 Hz
 Percent Flicker: 36,02 %
 Flicker index: 0,11

Flicker indices according to California Energy Commission (CEC) 2016b

JA8/10 40 Hz: 0,09 %
 JA8/10 90 Hz: 0,29 %
 JA8/10 200 Hz: 35,33 %
 JA8/10 400 Hz: 35,86 %
 JA8/10 1000 Hz: 36,03 %

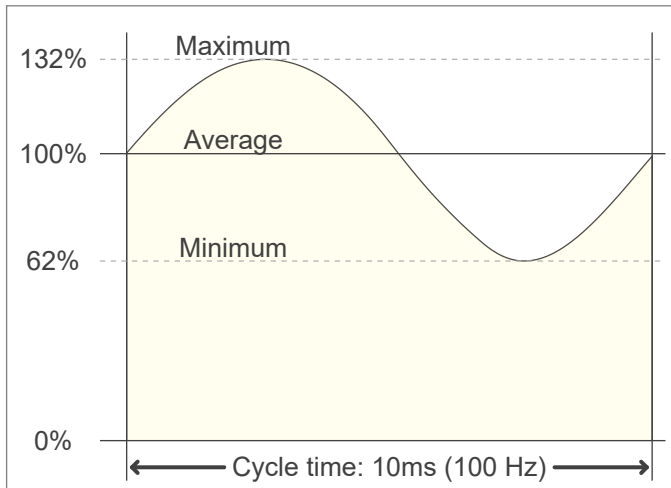
TLA indices (re IEC TR 61547-1, IEC 61000-3-3 and IEC 61000-4-15)

PstLM value (F < 80 Hz): 0,06
 SVM value (80 < F < 2000 Hz): 1,36

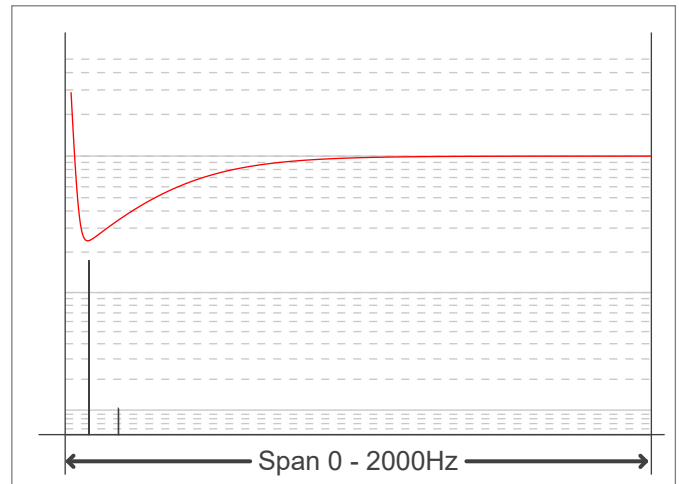
Flicker indices according to Lighting Research Center (2015)

Perception metric, Assist Mp: 0,04

Flicker frame (frame of one flicker period in time domain)



Flicker FFT (flicker curve in frequency domain)



IEEE 1789 Frequency/modulation plot

