

# Light Measurement Report

Print date: 15-7-2025

Measurement date and time: 15-7-2025 08:55:57 – Measurement no. VFR-250715-2108-MS

Measurement tracking No. and Link: [VT250715-006301](#)

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  
 $\gamma$  (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°  
12,12 m  
68,5 W – PF 0,97 – DPF 0,98  
230 V – 0,306 A  
50 Hz  
Lamp stabilized in 15 min 1 sec – 2,0%

## Tested Light Source

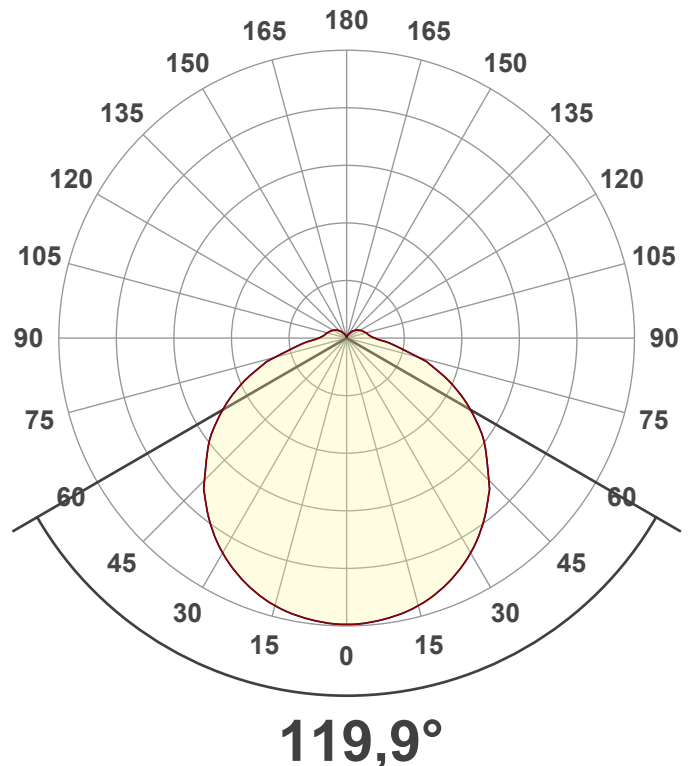
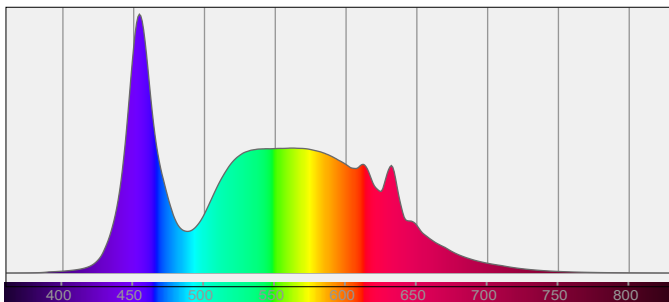
Product Name  
Item No. and Manufacturer  
Product Description (line 1)

276307-5700K  
276307-5700K – Dutchfulfillment  
LICHTLIJN JUPITER | LED MODULE | 33W/42W/58W/66W | 120°

## 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

10011 lm – 9,12% / 90,88%  
146 lm/W  
2841 cd – 119,9°  
CCT = 5700 K / 5831 K  
CRI 82,1  
 $R_f$  80,9 –  $R_g$  94,8  
Duv 0,0020 – SDCM 3,5  
SVM 0 – PstLM 0,01



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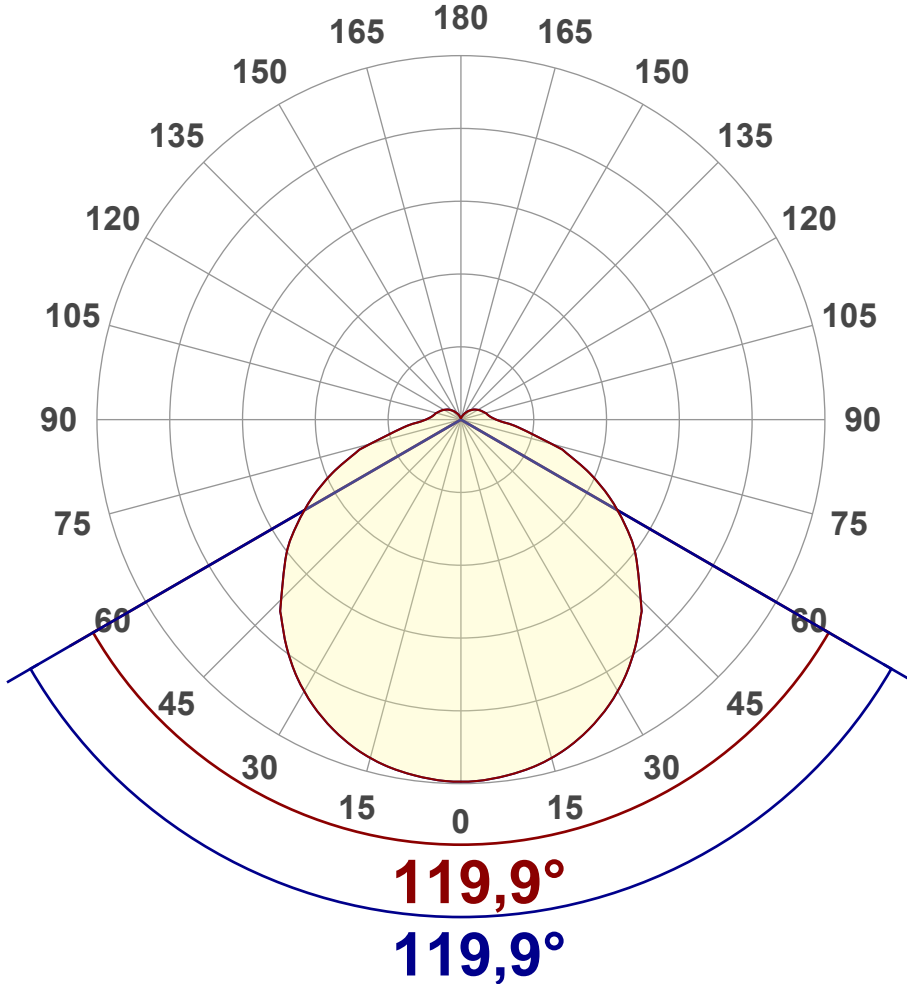
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## Luminous Intensity diagram

Unit: 0-100% of peak intensity



### Main Values

|                      |                |
|----------------------|----------------|
| Output (total Lumen) | 10011 lm       |
| Lumen Up% / Down%    | 9,12% / 90,88% |
| Peak Intensity       | 2841 cd        |
| Beam Angle (50%)     | 119,9°         |
| Beam Angle (90%)     | 119,9°         |
| Beam Angle (10%)     | 119,9°         |

### Cut-off Angle

|              |        |
|--------------|--------|
| Average 2,5% | 288,2° |
|--------------|--------|

### Field Angle

|             |        |
|-------------|--------|
| Average 10% | 179,7° |
|-------------|--------|

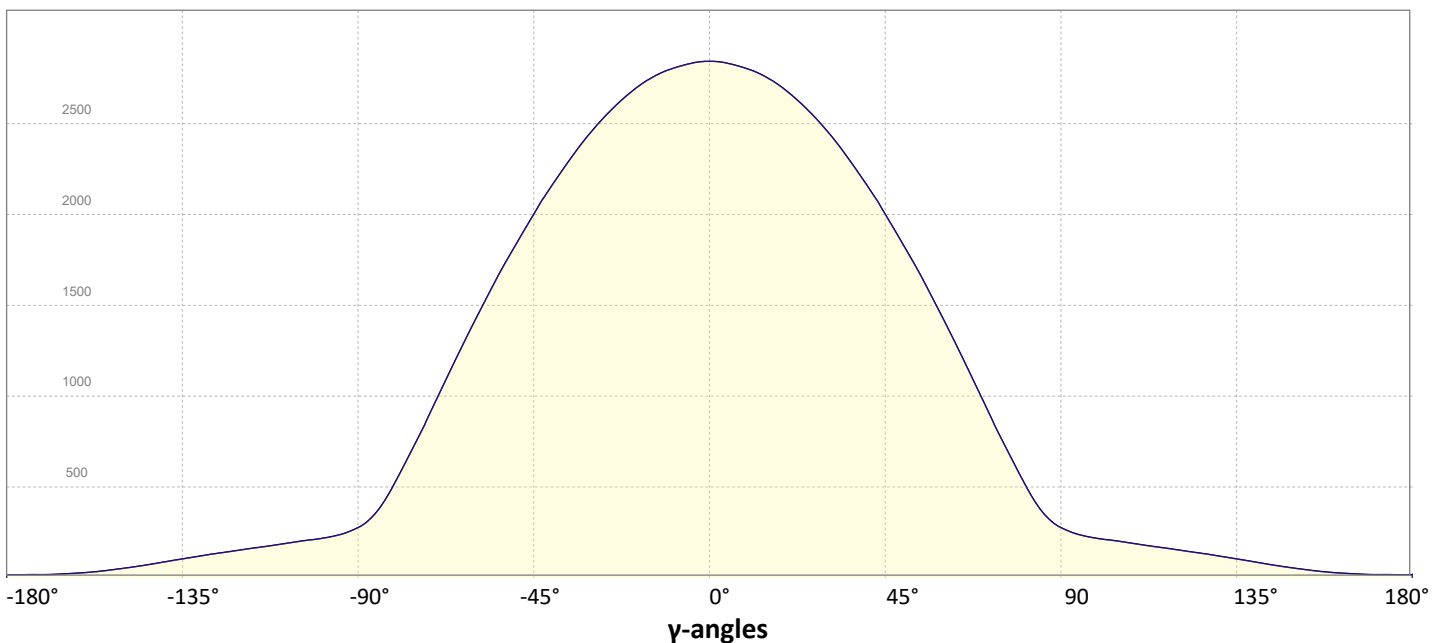
### Intensity Ratio

|              |       |
|--------------|-------|
| In 120° cone | 66,9% |
| In 90° cone  | 44,6% |

**C000-C180**

**C090-C270**

## Linear distribution diagram - Intensity (candela) vs $\gamma$ -angle



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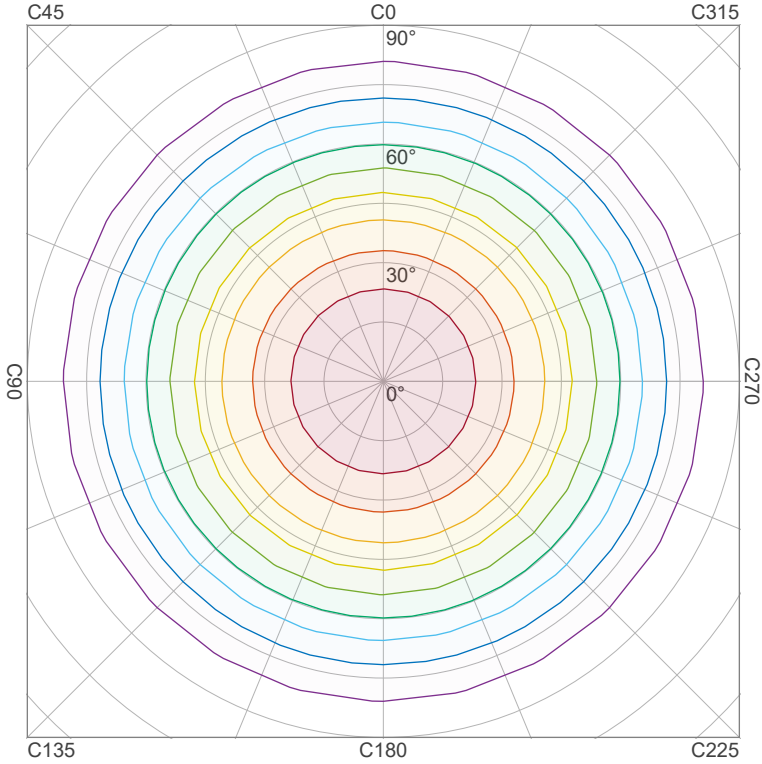
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## Iso-intensity Diagram (Iso-candela)

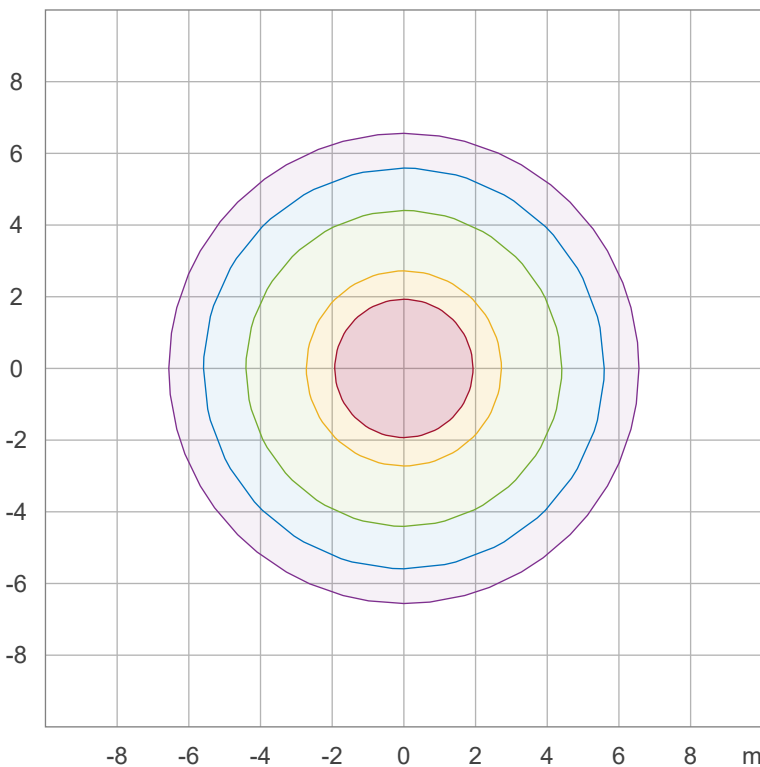


|      |           |
|------|-----------|
| 90 % | 2556,6 cd |
| 80 % | 2272,5 cd |
| 70 % | 1988,5 cd |
| 60 % | 1704,4 cd |
| 50 % | 1420,3 cd |
| 40 % | 1136,3 cd |
| 30 % | 852,2 cd  |
| 20 % | 568,1 cd  |
| 10 % | 284,1 cd  |

Peak intensity: 2840,7 cd

Number of c-planes: 12

## Iso-illuminance Diagram (Iso-lux)



|        |          |
|--------|----------|
| 50,0 % | 157,8 lx |
| 30,0 % | 94,7 lx  |
| 10,0 % | 31,6 lx  |
| 5,0 %  | 15,8 lx  |
| 3,0 %  | 9,5 lx   |

Peak illuminance: 315,6 lx

Mounting height: 3,0 m

Number of c-planes: 12

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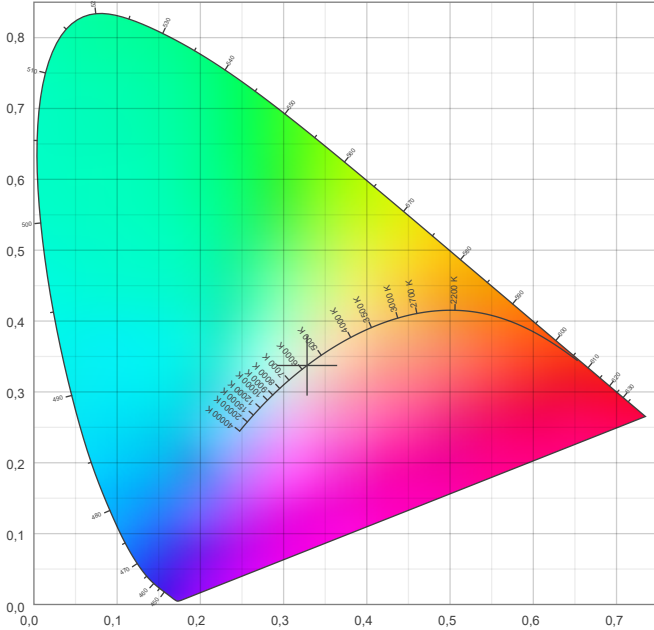


## Color details

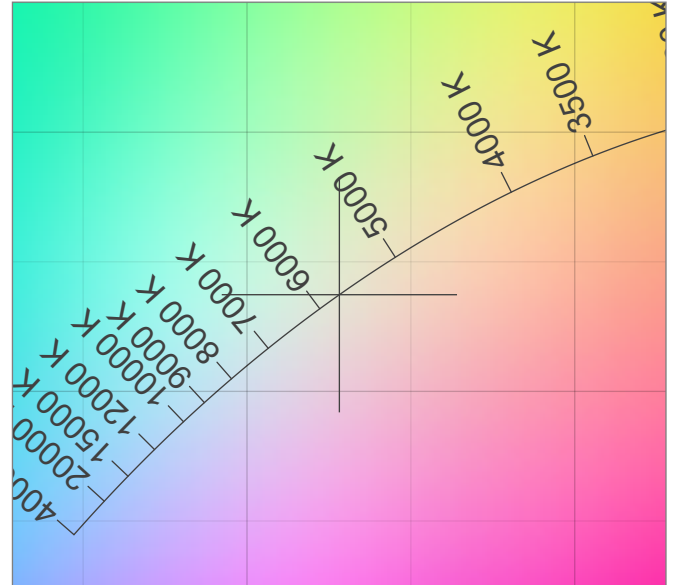
Correlated Color Temperature, Target CCT = 5700 K  
 Correlated Color Temperature, Measured CCT = 5831 K  
 Color Rendering Index CRI 82,1  
 Color Rendering Index, R9 (red component) R9 = 14,1  
 Color Rendering TM30-18 R<sub>f</sub> 80,9 – R<sub>g</sub> 94,8  
 Color Quality Scale CQS = 78,4

MacAdam Steps SDCM = 3,5  
 Color coordinates CIE 1931 (x;y) = (0,328;0,337)  
 Color coordinate CIEs 1960 (u;v) = (0,205;0,317)  
 Color deviation from BBL Duv = 0,0020  
 Color coordinate CIEs 1976 (CIELUV) (u';v') = (0,205;0,475)

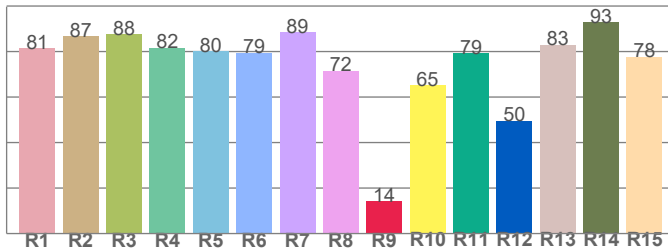
### CIE 1931



### CIE 1931 – zoomed on Planckian locus



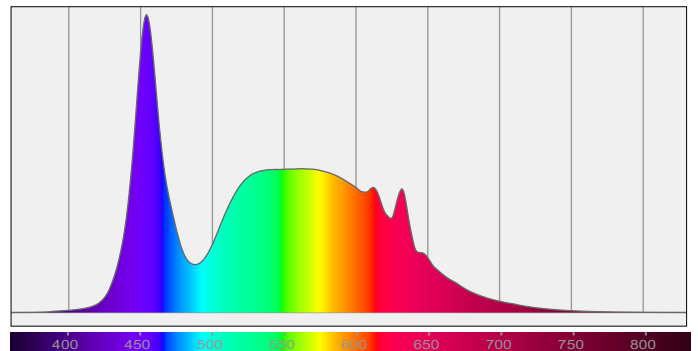
### Color Rendering Index per reference color (CIE 1995)



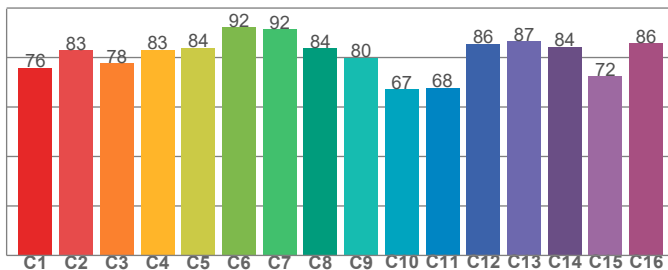
CRI R values, only R1-R8 are used to calculate final CRI value

| R1   | R2   | R3   | R4   | R5   | R6   | R7   | R8   | R9   | R10  | R11  | R12  | R13  | R14  | R15  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 81,4 | 86,6 | 87,6 | 81,7 | 80,2 | 79,4 | 88,6 | 71,6 | 14,1 | 65,2 | 79,3 | 49,6 | 83,0 | 92,9 | 77,6 |

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



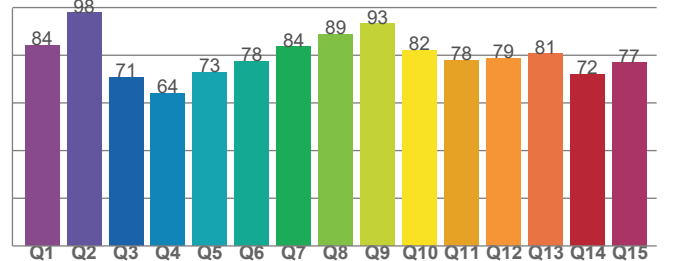
### TM30-18 R<sub>f</sub>-values per hue bin



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  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 75,8 | 82,9 | 77,6 | 83,1 | 83,9 | 92,2 | 91,5 | 83,8 | 79,9 | 67,1 | 67,8 | 85,6 | 86,6 | 84,3 | 72,4 | 85,7 |

### Color Quality Scale by reference color



CQS Q values

| Q1   | Q2   | Q3   | Q4   | Q5   | Q6   | Q7   | Q8   | Q9   | Q10  | Q11  | Q12  | Q13  | Q14  | Q15  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 84,2 | 97,8 | 70,9 | 64,1 | 72,8 | 77,6 | 83,7 | 88,8 | 93,3 | 82,2 | 77,9 | 78,8 | 80,6 | 72,2 | 76,8 |

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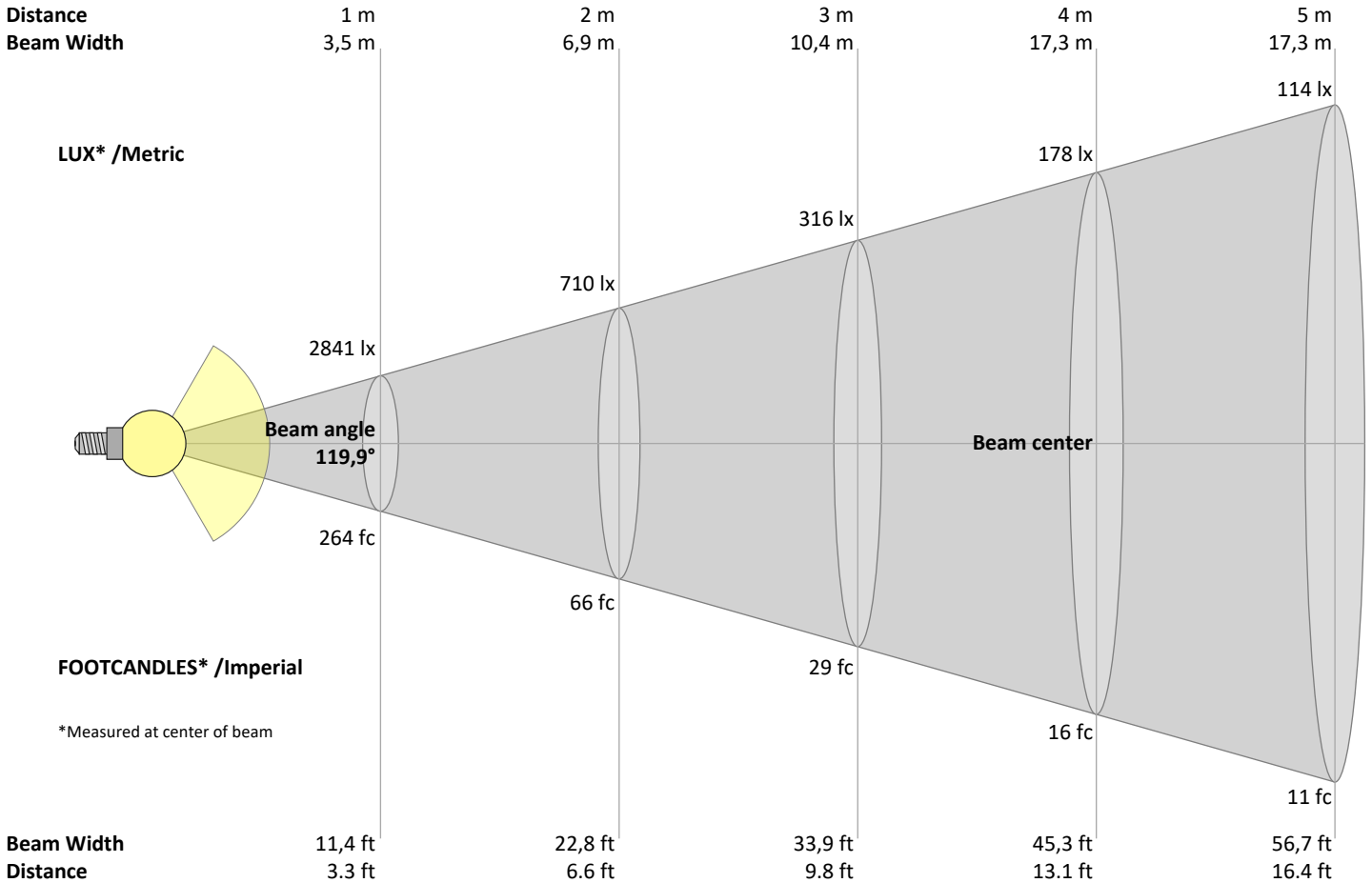
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Operator:



## 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  |
| 2841  | 710 | 316  | 178  | 114  | 79   | 58  | 44   | 35   | 28   | 23   | 20   | 17   | 14   | 13   | 11   | 10   | 9    | 8    | 7    | lux |
| 263,9 | 66  | 29,3 | 16,5 | 10,6 | 7,3  | 5,4 | 4,1  | 3,3  | 2,6  | 2,2  | 1,8  | 1,6  | 1,3  | 1,2  | 1    | 0,9  | 0,8  | 0,7  | 0,7  | 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        |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|----------|
| 2841 | 2829 | 2798 | 2748 | 2673 | 2577 | 2460 | 2323 | 2170 | 2001 | 1818 | 1625 | 1418 | 1201 | 977 | 756 | 551 | 380 | 282 | 238 | cd       |
| 100% | 100% | 98%  | 97%  | 94%  | 91%  | 87%  | 82%  | 76%  | 70%  | 64%  | 57%  | 50%  | 42%  | 34% | 27% | 19% | 13% | 10% | 8%  | 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        |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|----------|
| 2841 | 2829 | 2798 | 2748 | 2673 | 2577 | 2460 | 2323 | 2170 | 2001 | 1818 | 1625 | 1418 | 1201 | 977 | 756 | 551 | 380 | 282 | 238 | cd       |
| 100% | 100% | 98%  | 97%  | 94%  | 91%  | 87%  | 82%  | 76%  | 70%  | 64%  | 57%  | 50%  | 42%  | 34% | 27% | 19% | 13% | 10% | 8%  | 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        |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|----------|
| 2841 | 2829 | 2798 | 2748 | 2673 | 2577 | 2460 | 2323 | 2170 | 2001 | 1818 | 1625 | 1418 | 1201 | 977 | 756 | 551 | 380 | 282 | 238 | cd       |
| 100% | 100% | 98%  | 97%  | 94%  | 91%  | 87%  | 82%  | 76%  | 70%  | 64%  | 57%  | 50%  | 42%  | 34% | 27% | 19% | 13% | 10% | 8%  | 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        |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|----------|
| 2841 | 2829 | 2798 | 2748 | 2673 | 2577 | 2460 | 2323 | 2170 | 2001 | 1818 | 1625 | 1418 | 1201 | 977 | 756 | 551 | 380 | 282 | 238 | cd       |
| 100% | 100% | 98%  | 97%  | 94%  | 91%  | 87%  | 82%  | 76%  | 70%  | 64%  | 57%  | 50%  | 42%  | 34% | 27% | 19% | 13% | 10% | 8%  | of 0°val |

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## 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        | 23,0   | 24,1 | 23,3 | 24,6 | 25,0 | 23,4   | 24,6 | 23,8 | 25,0 | 25,4 |
|                                     | 3H        | 24,5   | 25,7 | 25,1 | 26,2 | 26,6 | 25,1   | 26,3 | 25,6 | 26,8 | 27,1 |
|                                     | 4H        | 25,3   | 26,4 | 25,8 | 26,8 | 27,3 | 26,0   | 27,1 | 26,5 | 27,5 | 28,0 |
|                                     | 6H        | 25,9   | 26,9 | 26,4 | 27,4 | 27,9 | 26,8   | 27,8 | 27,2 | 28,2 | 28,8 |
|                                     | 8H        | 26,1   | 27,1 | 26,6 | 27,6 | 28,2 | 27,1   | 28,1 | 27,6 | 28,6 | 29,2 |
|                                     | 12H       | 26,3   | 27,3 | 26,8 | 27,8 | 28,4 | 27,5   | 28,5 | 28,0 | 28,9 | 29,5 |
| 4H                                  | 2H        | 23,6   | 24,8 | 24,2 | 25,2 | 25,6 | 23,9   | 25,1 | 24,5 | 25,5 | 26,0 |
|                                     | 3H        | 25,5   | 26,5 | 26,0 | 27,0 | 27,6 | 26,0   | 27,0 | 26,5 | 27,4 | 28,0 |
|                                     | 4H        | 26,3   | 27,3 | 26,8 | 27,7 | 28,4 | 26,9   | 27,9 | 27,4 | 28,3 | 29,0 |
|                                     | 6H        | 27,0   | 27,9 | 27,6 | 28,3 | 28,9 | 27,8   | 28,6 | 28,4 | 29,1 | 29,7 |
|                                     | 8H        | 27,3   | 28,1 | 27,9 | 28,6 | 29,1 | 28,2   | 29,0 | 28,8 | 29,5 | 30,1 |
|                                     | 12H       | 27,6   | 28,2 | 28,2 | 28,8 | 29,4 | 28,7   | 29,3 | 29,3 | 29,9 | 30,5 |
| 8H                                  | 4H        | 26,6   | 27,4 | 27,3 | 27,9 | 28,5 | 27,2   | 27,9 | 27,8 | 28,5 | 29,0 |
|                                     | 6H        | 27,6   | 28,1 | 28,2 | 28,8 | 29,5 | 28,3   | 28,9 | 28,9 | 29,5 | 30,2 |
|                                     | 8H        | 28,0   | 28,5 | 28,6 | 29,2 | 30,0 | 28,8   | 29,4 | 29,5 | 30,0 | 30,8 |
|                                     | 12H       | 28,4   | 28,8 | 29,1 | 29,5 | 30,2 | 29,4   | 29,9 | 30,1 | 30,5 | 31,2 |
| 12H                                 | 4H        | 26,7   | 27,3 | 27,3 | 27,9 | 28,5 | 27,2   | 27,8 | 27,8 | 28,4 | 29,0 |
|                                     | 6H        | 27,7   | 28,2 | 28,3 | 28,9 | 29,6 | 28,4   | 28,9 | 29,0 | 29,5 | 30,3 |
|                                     | 8H        | 28,2   | 28,6 | 28,9 | 29,3 | 30,0 | 29,0   | 29,4 | 29,7 | 30,1 | 30,8 |

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

|          |            |            |
|----------|------------|------------|
| S = 1.0H | 0,1 / -0,1 | 0,1 / -0,1 |
| S = 1.5H | 0,1 / -0,2 | 0,1 / -0,1 |
| S = 2.0H | 0,3 / -0,4 | 0,3 / -0,3 |

## 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                   | 117   | 117 | 117 | 117 | 113 | 113 | 113 | 113 | 106 | 106 | 106 | 100 | 100 | 100 | 94 | 94 | 94 | 91 |
| 1                   | 105   | 100 | 95  | 91  | 102 | 97  | 93  | 89  | 91  | 87  | 84  | 85  | 83  | 80  | 80 | 78 | 76 | 73 |
| 2                   | 95  | 86  | 79  | 73  | 92  | 84  | 77  | 71  | 79  | 73  | 68  | 74  | 69  | 65  | 70 | 66 | 63 | 60 |
| 3                   | 86  | 75  | 67  | 60  | 83  | 73  | 65  | 59  | 69  | 62  | 57  | 65  | 59  | 55  | 61 | 56 | 53 | 50 |
| 4                   | 79  | 67  | 57  | 50  | 76  | 65  | 56  | 50  | 61  | 54  | 48  | 57  | 51  | 46  | 54 | 49 | 45 | 42 |
| 5                   | 72  | 59  | 50  | 43  | 70  | 58  | 49  | 42  | 54  | 47  | 41  | 51  | 45  | 40  | 49 | 43 | 39 | 36 |
| 6                   | 67  | 53  | 44  | 37  | 64  | 52  | 43  | 37  | 49  | 41  | 36  | 46  | 40  | 35  | 44 | 38 | 34 | 32 |
| 7                   | 62  | 48  | 39  | 33  | 60  | 47  | 38  | 32  | 44  | 37  | 32  | 42  | 36  | 31  | 40 | 34 | 30 | 28 |
| 8                   | 57  | 44  | 35  | 29  | 55  | 43  | 35  | 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 | 28 | 24 | 22 |
| 10                  | 50  | 37  | 29  | 24  | 49  | 36  | 28  | 23  | 34  | 28  | 23  | 33  | 27  | 22  | 31 | 26 | 22 | 20 |

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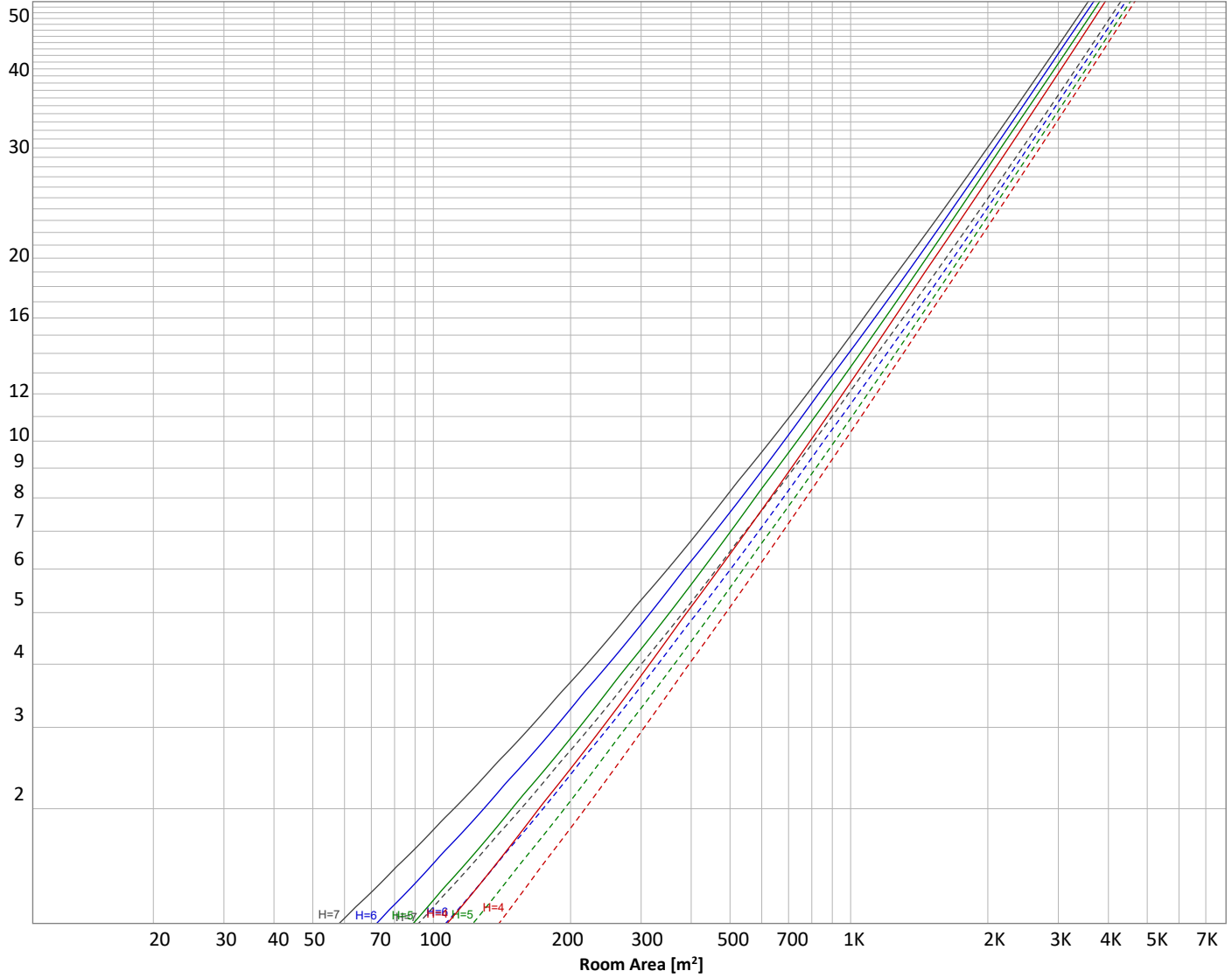
Operator:



## Luminaire budgetary diagram

Uncorrected, comprehensive UGR table according to 117-1995

LAMPS (number of lamps)



### Conditions

|   |                 |           |                     |                          |                   |
|---|-----------------|-----------|---------------------|--------------------------|-------------------|
| H = Room height                                   | Flux = 10011 lm |           |                     |                          |                   |
| H <sub>down</sub> = Lamp distance from ceiling =  | 0.00 m          | Line type | Ceiling reflectance | ρ(%)<br>Wall reflectance | Floor reflectance |
| H <sub>work</sub> = Work area height from floor = | 0.00 m          | -----     | 70                  | 50                       | 30                |
| E <sub>work</sub> = 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°   |
|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 269 lm   | 777 lm    | 1190 lm   | 1456 lm   | 1545 lm   | 1455 lm   | 1190 lm   | 800 lm    | 415 lm    |
| 90°-100° | 100°-110° | 110°-120° | 120°-130° | 130°-140° | 140°-150° | 150°-160° | 160°-170° | 170°-180° |
| 260 lm   | 212 lm    | 168 lm    | 123 lm    | 81,4 lm   | 43,0 lm   | 18,2 lm   | 6,45 lm   | 1,66 lm   |



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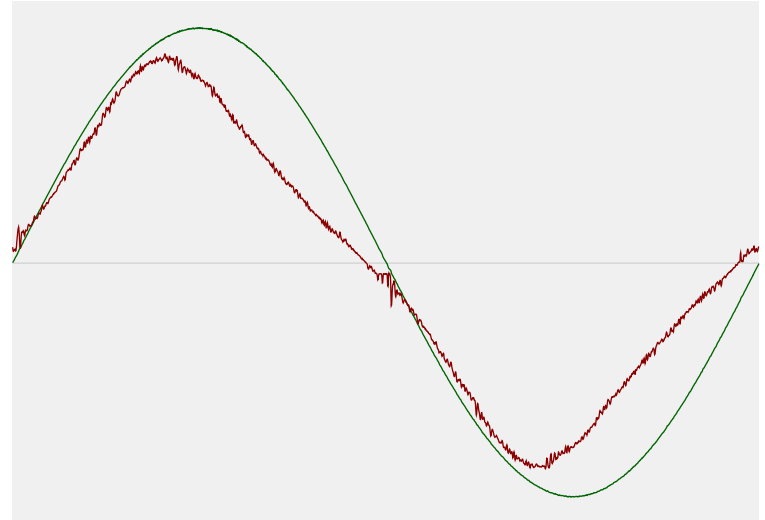


## Power Details

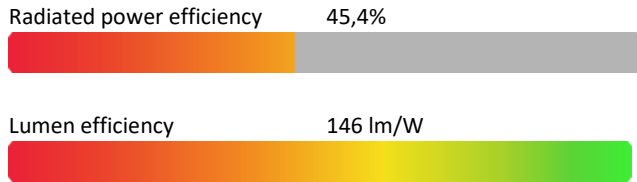
### Input Power

|   |          |
|---|----------|
| Power feed to light source                          | 68,5 W   |
| Frequency of input power                            | 50 Hz    |
| RMS Input voltage feed, $V_{RMS}$                   | 230 V    |
| RMS Input current feed, $I_{RMS}$                   | 0,306 A  |
| Volt-Ampere or apparent power = $V_{RMS} * I_{RMS}$ | 70,52 VA |
| Displacement factor of AC power feed                | 0,98     |
| Power factor of AC current feed                     | 0,97     |
| Total harmonic distortion of the current            | 14,52%   |
| 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 | 5676 K |
| CCT shift | +24 K  |
| CCT end   | 5700 K |

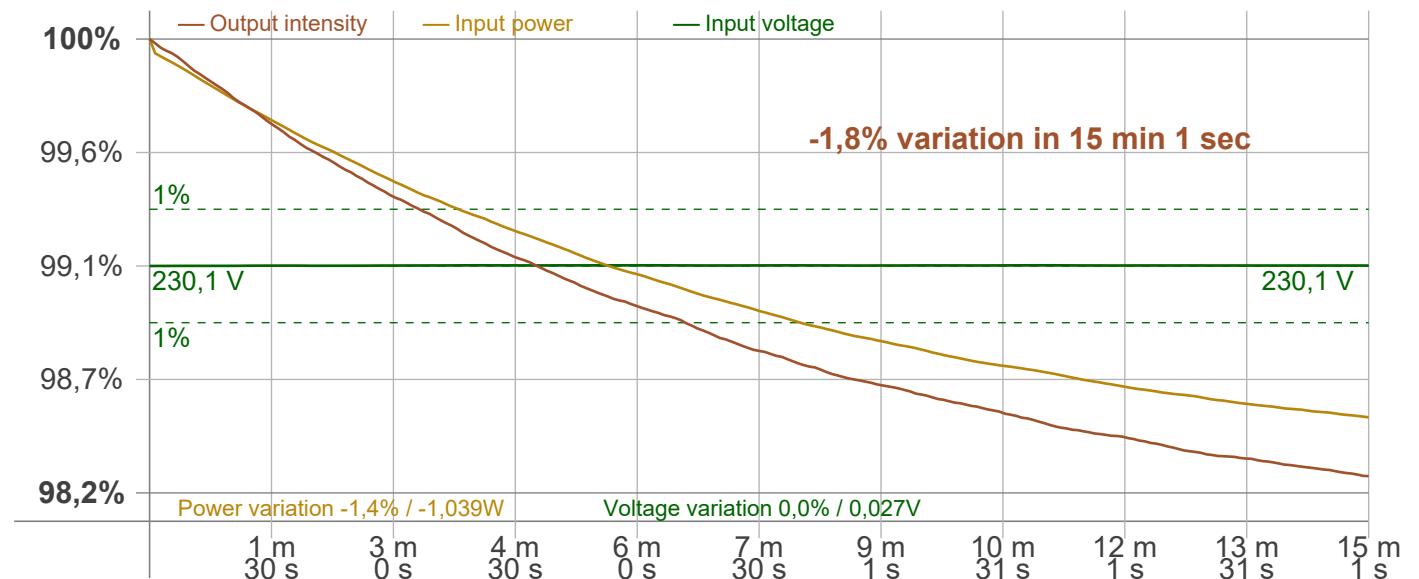
### Warmup Result

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

### Output Change

|               |          |
|---------------|----------|
| Output start  | 10188 lm |
| Output change | -177 lm  |
| Output end    | 10011 lm |

### Stabilization Curve



# Light Measurement Report

Print date: 15-7-2025

Measurement date and time: 15-7-2025 08:55:57 – Measurement no. VFR-250715-2108-MS

Measurement tracking No. and Link: [VT250715-006301](#)

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 88,5 Hz  
 Percent Flicker 0,09 %  
 Flicker index 0

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

JA8/10 40 Hz 0,02 %  
 JA8/10 90 Hz 0,02 %  
 JA8/10 200 Hz 0,05 %  
 JA8/10 400 Hz 0,06 %  
 JA8/10 1000 Hz 0,06 %

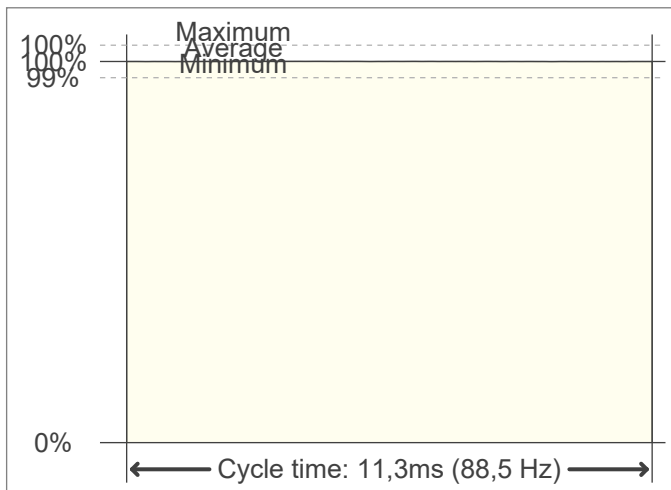
### TLA indices (re IEC TR 61547-1, IEC 61000-3-3 and IEC 61000-4-15)

PstLM value (F < 80 Hz) 0,01  
 SVM value (80 < F < 2000 Hz) 0

### Flicker indices according to Lighting Research Center (2015)

Perception metric, Assist Mp 0,01

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



### Flicker FFT (flicker curve in frequency domain)



### IEEE 1789 Frequency/modulation plot

