

# Test report

Print date 21/01/2026  
Light measurement results



## Laboratory and Equipment

Test lab  
Spectrometer Manufacturer and Model  
Measurement date  
Operator

Viso LabSpion - serial: 1996407700 sensor serial: 1118720440 - Test lab  
LabSpion – Type C, horizontal  
18/09/2025  
MW

## Measurement Conditions

Tested c-planes  
Tested gamma resolution  
Input Power

12 planes – 30°  
5°  
6,5 W

## Tested Light Source

Luminaire  
Basic Luminous Shape  
Item No.  
Manufacturer  
Description

NANOFLEX  
PANEL  
NANOFLEX80677.6RG30ADD25WHBS,red  
Acolyte  
Beam Angle: 25 degree, product length 1m/line

## Main Light Measurement Results

Output – Total Lumen (Up% / Down%)  
Efficiency  
Peak Intensity  
Correlated Color Temperature, CCT  
Color Rendering Index  
Dominant Wavelength  
Peak Wavelength

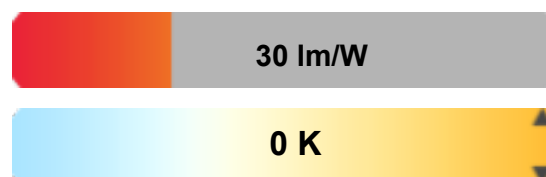
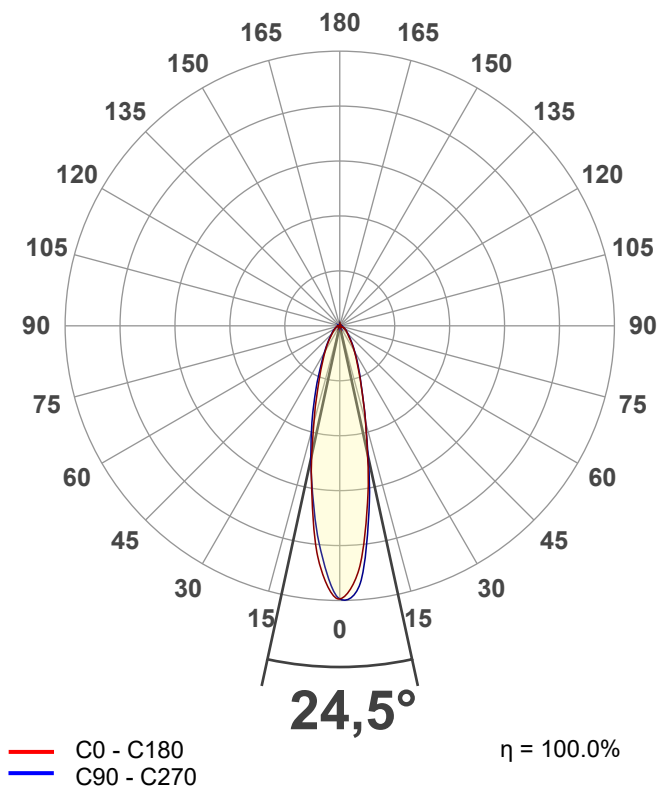
196 lm – 0,78% / 99,22%  
30 lm/W  
511 cd  
0 K  
CRI 0,0  
623 nm  
632 nm

Lumen per length  
Watt per length

196,05 lm/m    59,76 lm/ft  
6,53 W/m    1,99 W/ft

## Polar light distribution diagram

Unit: 0-100% of peak intensity



## Product photo



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## Color Parameters

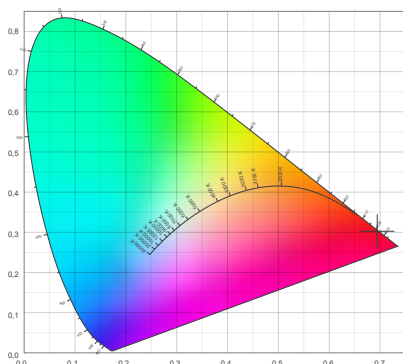
Correlated Color Temperature, Target  
Correlated Color Temperature, Measured  
Color Rendering Index  
Color Rendering Index, R9 (red)  
Color Rendering TM30-18

CCT = 0 K  
CCT = 0 K  
CRI 0,0  
R9 = 0,0  
Rf 0,0  
Rg 0,0

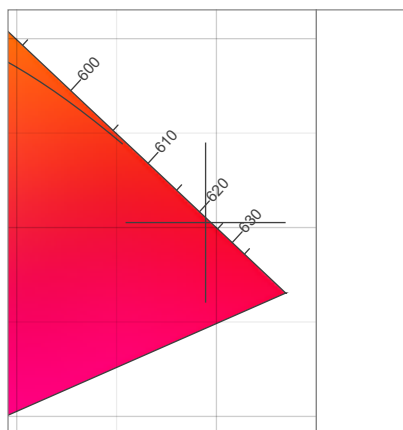
MacAdam Steps  
Color deviation from BBL  
Color coordinates CIE 1931  
Color coordinate CIEs 1960  
Color coordinate CIEs 1976  
Color Quality Scale

SDCM = n/a  
Duv = n/a  
(x;y) = (0,695;0,303)  
(u;v) = (0,530;0,346)  
(u';v') = (0,530;0,520)  
CQS = 0,0

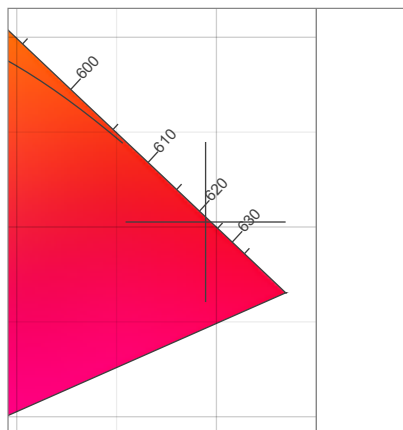
### CIE 1931 Chromaticity diagram



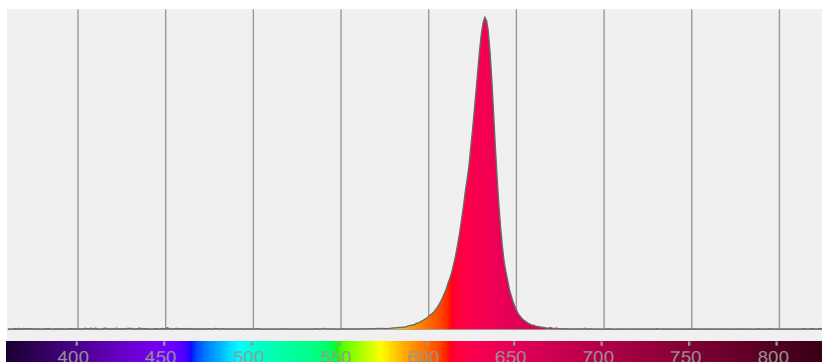
### CIE 1931 Chromaticity - zoomed



### CIE 1931 Chromaticity - SDCM



## Spectral power distribution



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

A large empty rectangular box for drawing or writing, with a horizontal axis labeled  $R_1$  through  $R_{15}$  below it.

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

[illegible]

### TM30-18 Rf-values per hue bin

c <sub>1</sub>	c <sub>2</sub>	c <sub>3</sub>	c <sub>4</sub>	c <sub>5</sub>	c <sub>6</sub>	c <sub>7</sub>	c <sub>8</sub>	c <sub>9</sub>	c <sub>10</sub>	c <sub>11</sub>	c <sub>12</sub>	c <sub>13</sub>	c <sub>14</sub>	c <sub>15</sub>	c <sub>16</sub>		

TM30-18 Rf-values per hue bin

[illegible]

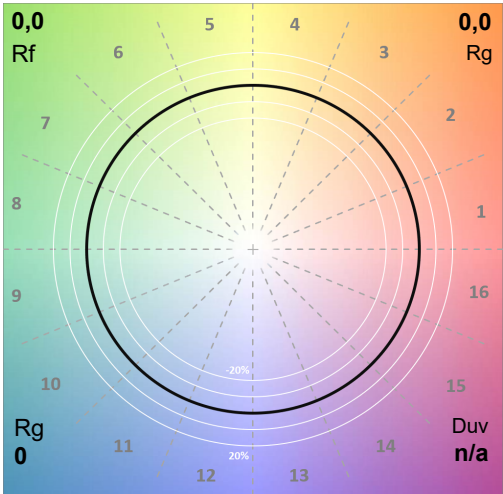
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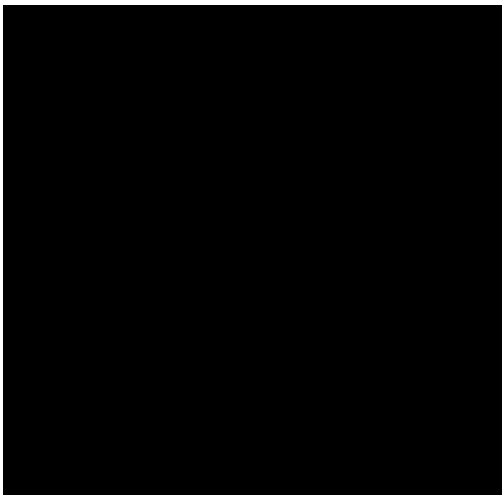


## Color details - ANSI/IES TM-30-18 Color Rendition Report

Color Vector Graphic



Color Distortion Graphic



CIE x 0,695  
CIE y 0,695  
CIE u' 0,530  
CIE v' 0,520

CIE 13.3-1995

Ra 0,0  
R9 0,0

Color Rendition by Color Evaluation Sample (CES)


Color evaluation sample CES01 through CES99

Local Color Fidelity (per hue bin)


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16  
Hue angle bin (j)

Local Chroma Shift (per hue bin)


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16  
Hue angle bin (j)

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## Color Rendering Index (CQS)

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	

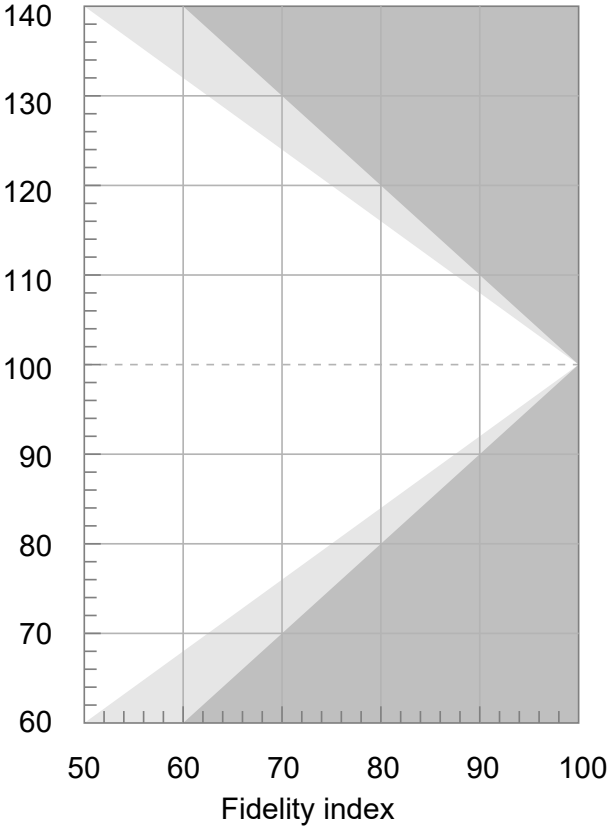
Q1	0,00		Q9	0,00
Q2	0,00		Q10	0,00
Q3	0,00		Q11	0,00
Q4	0,00		Q12	0,00
Q5	0,00		Q13	0,00
Q6	0,00		Q14	0,00
Q7	0,00		Q15	0,00
Q8	0,00		CQS	0,00

		Shifts (%)	
Hue Bin	Rf	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%

**Rg 0,0**  
Gamut Index Rf

**Rf 0,0**  
Fidelity Index Rf

Gamut Index vs. Fidelity



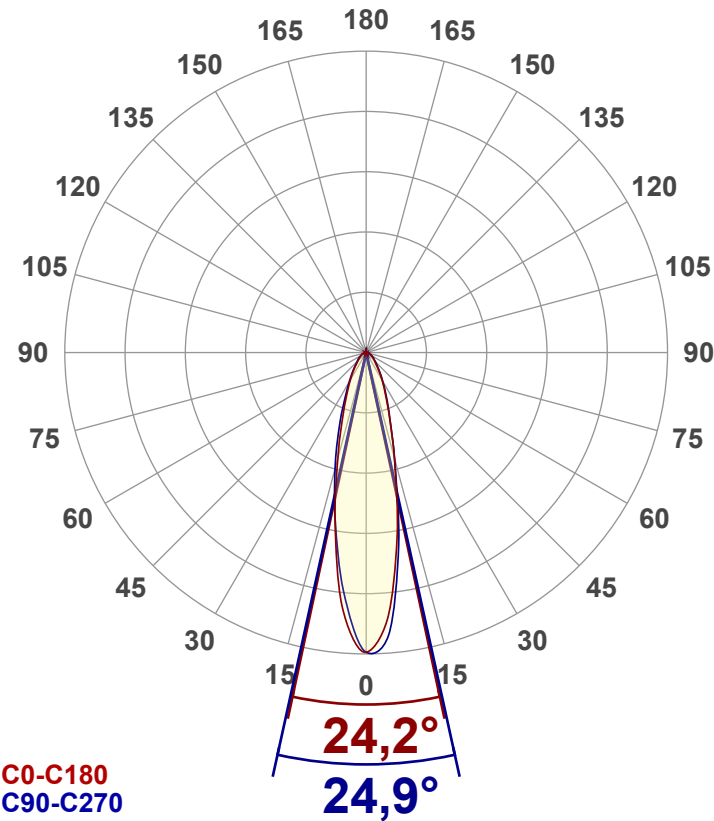
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## Luminous Intensity diagram

Unit: 0-100% of peak intensity



## Main Values

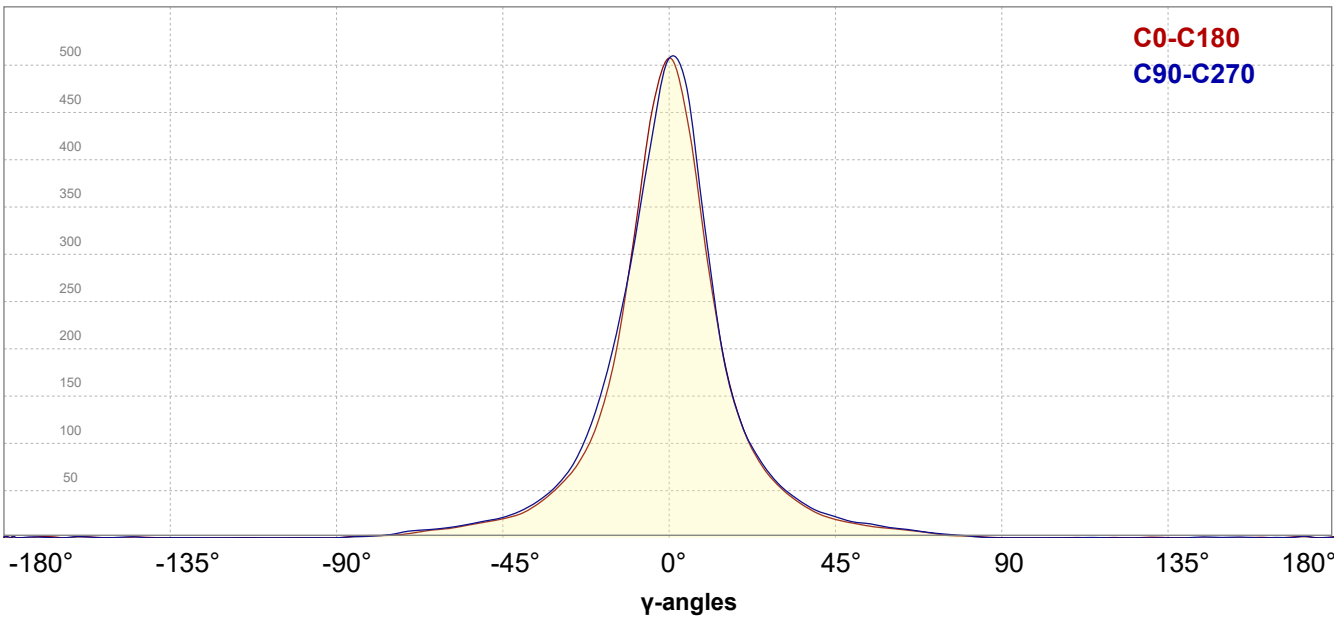
Output (total Lumen)	196 lm
Lumen Up% / Down%	0,78% / 99,22%
Peak Intensity	511 cd
Beam Angle (50%-FWHM)	24,47°
Field Angle (10%-FWHM)	62,50°
Cutoff Angle (2.5%-FWHM)	{c_ANG/0.00}°

## Intensity Ratios

In 120° cone	196,0
In 90° cone	59,8

## Linear distribution diagram

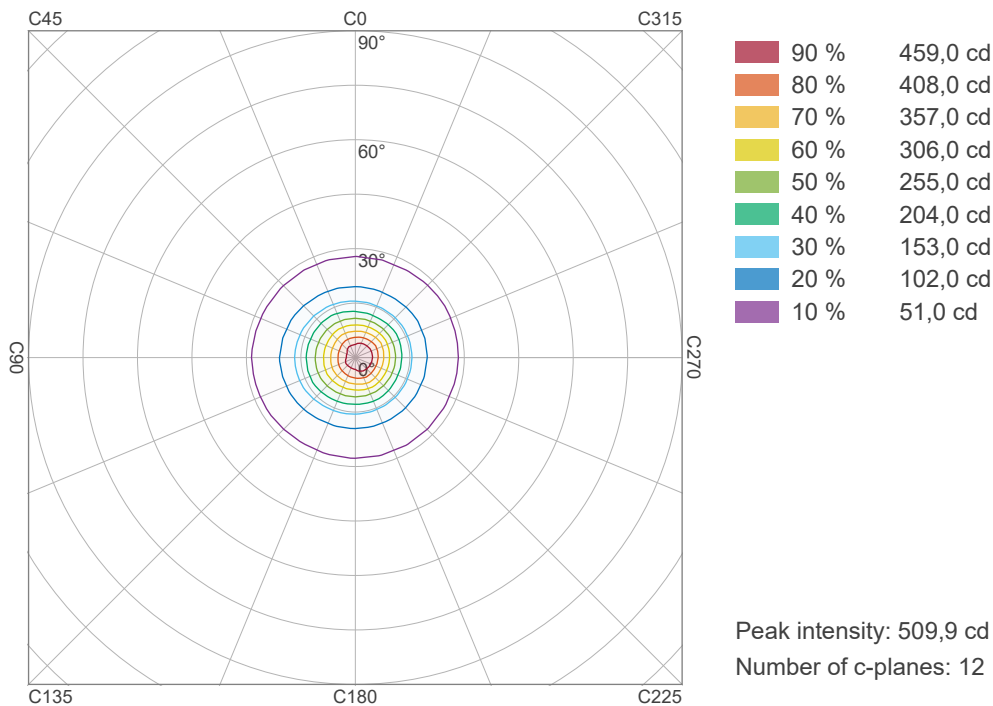
Intensity [cd]



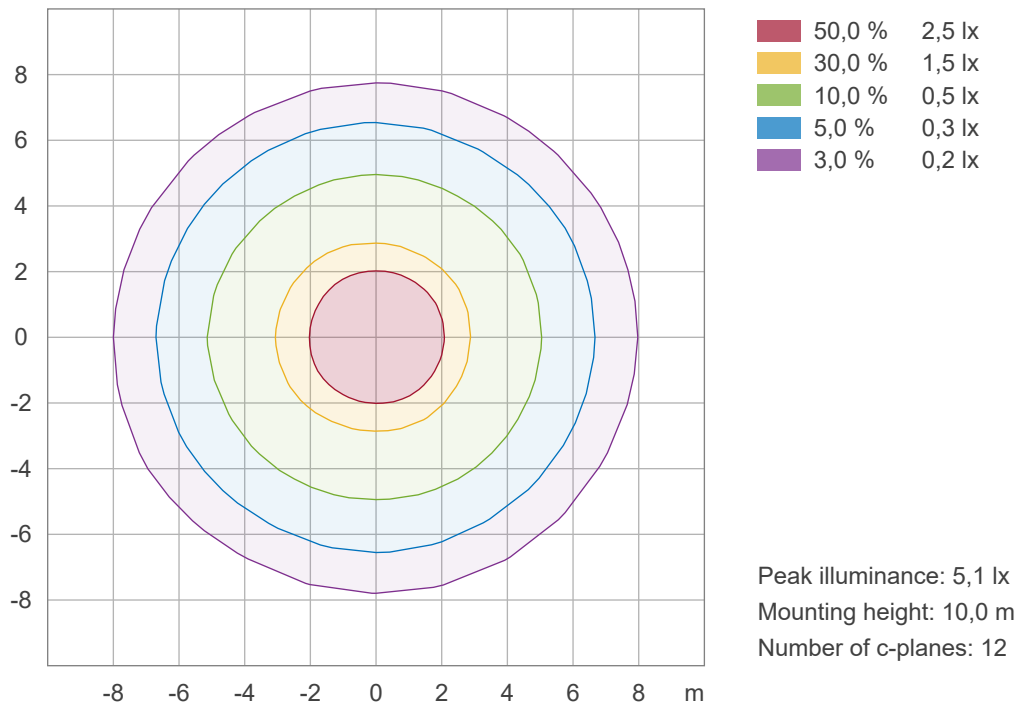
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## Iso-intensity Diagram (Iso-candela)



## Iso-illuminance Diagram (Iso-lux)

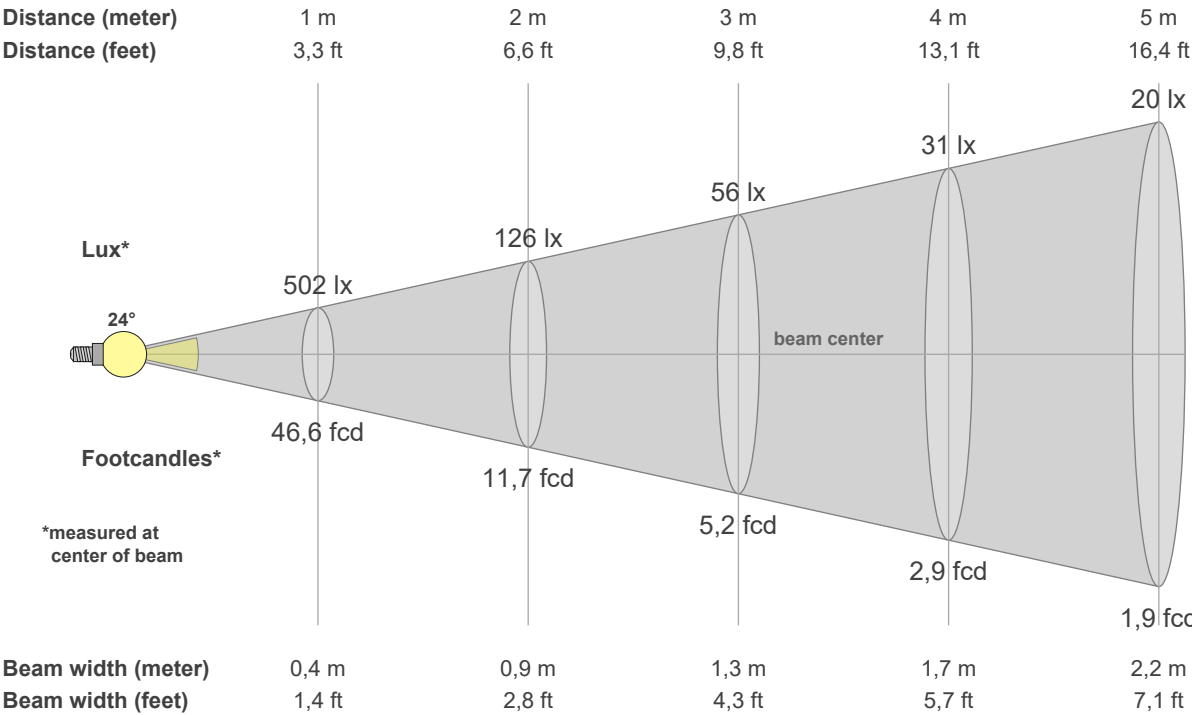


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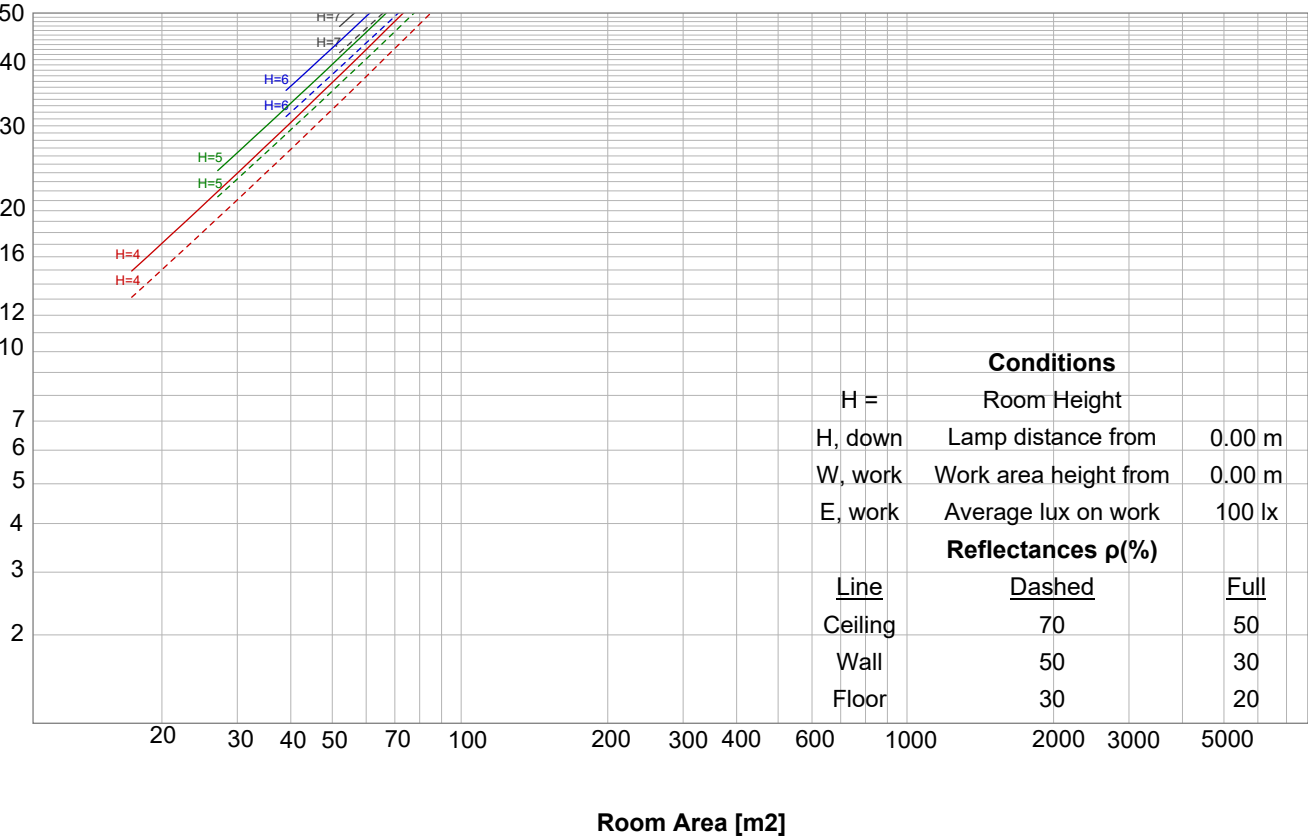


## Beam details



## Luminaire budgetary diagram

LAMPS (number of lamps)



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## Intensity 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
502	126	56	31	20	14	10	8	6	5	4	3	3	3	2	2	2	2	1	1	lux
46,6	11,7	5,2	2,9	1,9	1,3	1	0,7	0,6	0,5	0,4	0,3	0,3	0,2	0,2	0,2	0,2	0,1	0,1	0,1	fc

## Intensities in 0° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°	γ
502	481	459	413	358	305	256	206	172	142	116	100	83	72	63	54	47	41	35	30	cd
100%	96%	91%	82%	71%	61%	51%	41%	34%	28%	23%	20%	17%	14%	13%	11%	9%	8%	7%	6%	of 0°val

## Intensities in 90° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°	γ
502	492	482	437	378	319	264	209	172	143	117	102	87	75	65	56	50	43	38	33	cd
100%	98%	96%	87%	75%	64%	53%	42%	34%	29%	23%	20%	17%	15%	13%	11%	10%	9%	8%	7%	of 0°val

## Intensities in 180° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°	γ
502	484	453	415	359	303	255	210	170	144	117	100	85	72	63	54	47	41	35	31	cd
100%	96%	90%	83%	72%	60%	51%	42%	34%	29%	23%	20%	17%	14%	13%	11%	9%	8%	7%	6%	of 0°val

## Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°	γ
502	474	434	392	346	299	260	223	189	161	134	113	95	79	68	58	50	44	38	33	cd
100%	94%	86%	78%	69%	60%	52%	44%	38%	32%	27%	23%	19%	16%	14%	11%	10%	9%	8%	7%	of 0°val



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## IESNA TM-15-07 LUMINAIARE CLASSIFICATION SYSTEM FOR OUTDOOR

### Forward Light

Low (0-30°)	64,5	lm	32,9%
Medium (30-60°)	26,4	lm	13,5%
High (60-80°)	6	lm	3%
Very High (80-90°)	0,5	lm	0,3%

### Back Light

Low (0-30°)	64,4	lm	32,9%
Medium (30-60°)	26,2	lm	13,4%
High (60-80°)	6	lm	3,1%
Very High (80-90°)	0,5	lm	0,2%

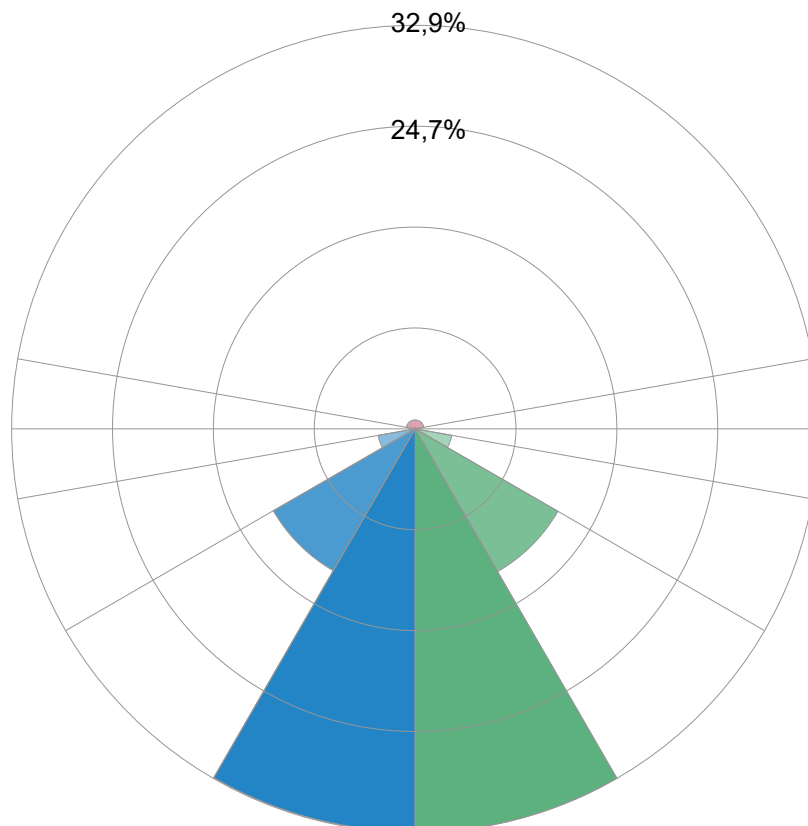
### Uplight

Low (90-100°)	0,1	lm	0,1%
High (100-180°)	1,4	lm	0,7%

Total

<b>Sum</b>	<b>196,0</b>	<b>lm</b>	<b>100%</b>
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### BUG RATING B0 U1 G0





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## Power details

### Input power

Frequency of input power	0 Hz
Power feed to light source	6,5 W
RMS Input voltage feed V,RMS	24,0 V
RMS Input current feed I,RMS	0,272 A
Volt-Amp or apparent power =	6,53 VA
Displacement factor of AC power feed	0,0
Power factor of AC current feed	1,0
Total harmonic distortion of the current	0%
Total harmonic distortion of the voltage	0%

### Input power curve



## Efficiency

Radiated power efficiency 15,3%

Lumen efficiency 30 lm/W

## Stabilization details

### Warmup Conditions

Stable period	n/a
Stable change max	n/a%
Minimum time	n/a

### Color Temperature Change

CCT start	n/a K
CCT shift	n/a K
CCT end	0 K

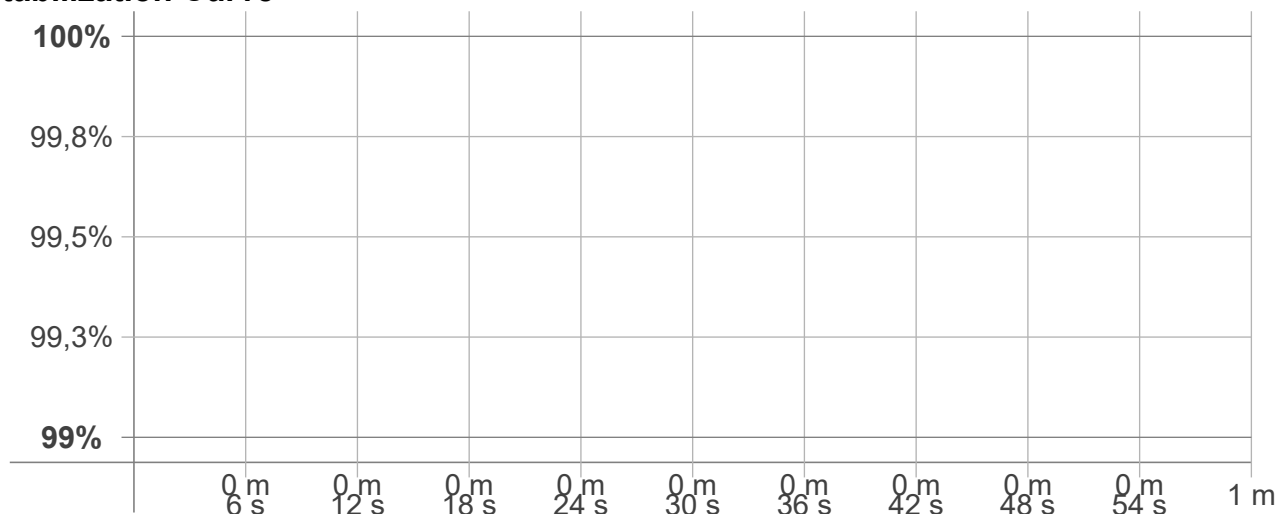
### Warmup Result

Total warmup time	n/a
Warmup variation	n/a%

### Output Change

Output start	n/a lm
Output change	n/a lm
Output end	196 lm

## Stabilization Curve



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## Flicker TLA details

Flicker Meter Type	Viso Systems LabFlicker
Frequency of input power	0 Hz
Flicker/TLA sample rate	n/a samples/s

Measurement time	
PstLM	180 sec.
All other indices	1,5 sec,

### Flicker indices according to Illuminating Engineering Society

Flicker frequency	n/a Hz
Percent Flicker	n/a %
Flicker index	n/a

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

JA8/10 40 Hz	n/a %
JA8/10 90 Hz	n/a %
JA8/10 200 Hz	n/a %
JA8/10 400 Hz	n/a %
JA8/10 1000 Hz	n/a %

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

PstLM value ( $F < 80$ Hz)	n/a
SVM value ( $80 < F < 2000$ Hz)	n/a

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

Perception metric, Assist Mp	n/a
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### Flicker frame (frame of one flicker period in time domain)



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



### IEEE 1789 Frequency/modulation plot

