

# 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°  
7,2 W

## Tested Light Source

Luminaire  
Basic Luminous Shape  
Item No.  
Manufacturer  
Description

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

## Main Light Measurement Results

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

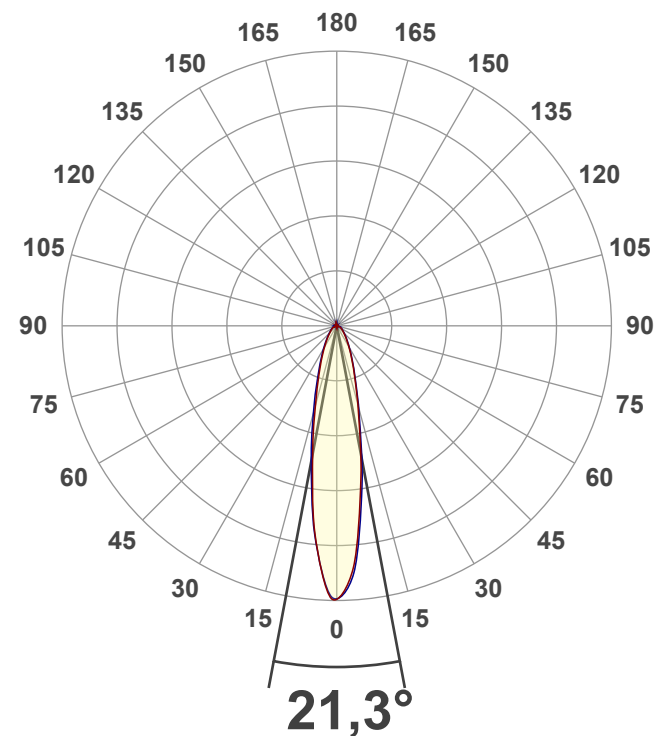
465 lm – 1,21% / 98,79%  
64 lm/W  
1369 cd  
0 K  
CRI 0,0  
529 nm  
521 nm

Lumen per length  
Watt per length

465,45 lm/m      141,87 lm/ft  
7,22 W/m      2,20 W/ft

## Polar light distribution diagram

Unit: 0-100% of peak intensity



— C0 - C180  
— C90 - C270

$\eta = 100.0\%$

## Product photo





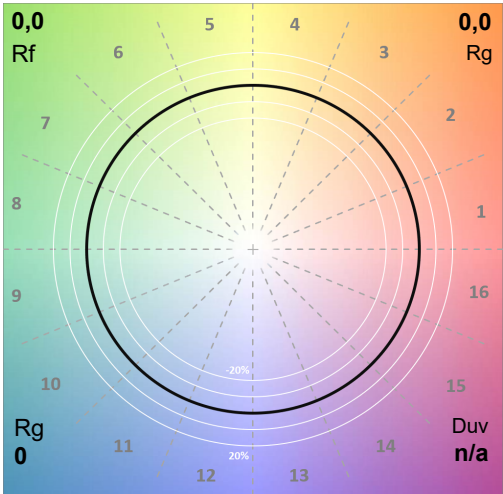
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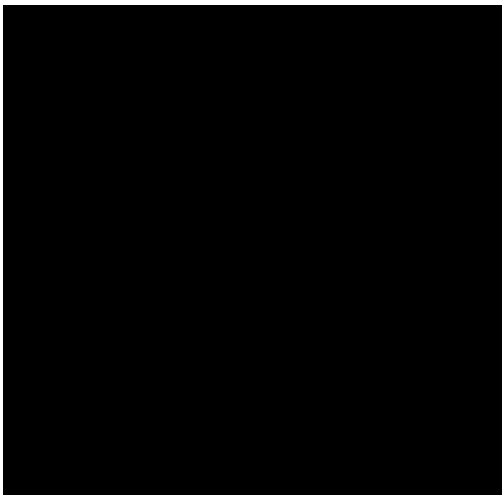


## Color details - ANSI/IES TM-30-18 Color Rendition Report

Color Vector Graphic



Color Distortion Graphic



CIE x 0,171  
CIE y 0,171  
CIE u' 0,060  
CIE v' 0,577

**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	

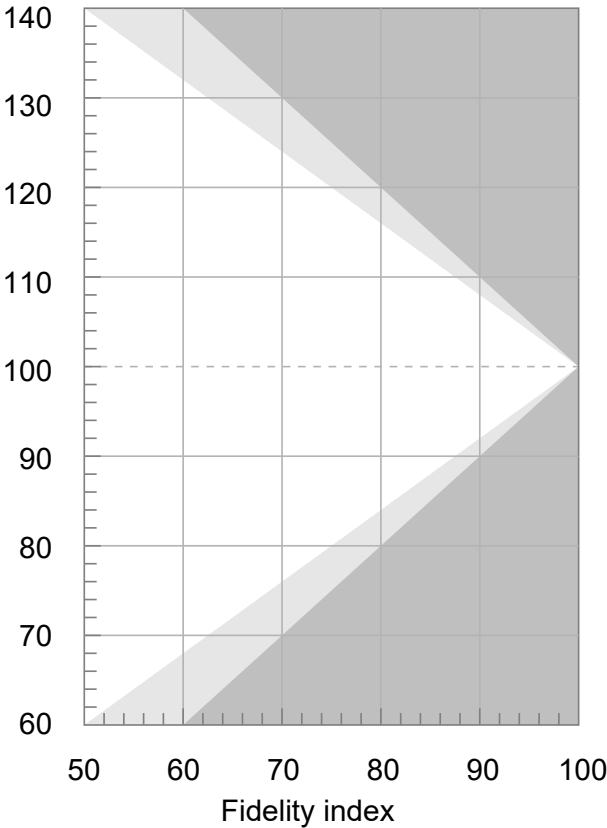
Q1	0,00		Q9	0,00
Q2	0,00		Q10	0,00
Q3	0,00		Q11	0,00
Q4	0,00		Q12	0,00
Q5	0,00		Q13	0,00
Q6	0,00		Q14	0,00
Q7	0,00		Q15	0,00
Q8	0,00		CQS	0,00

		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



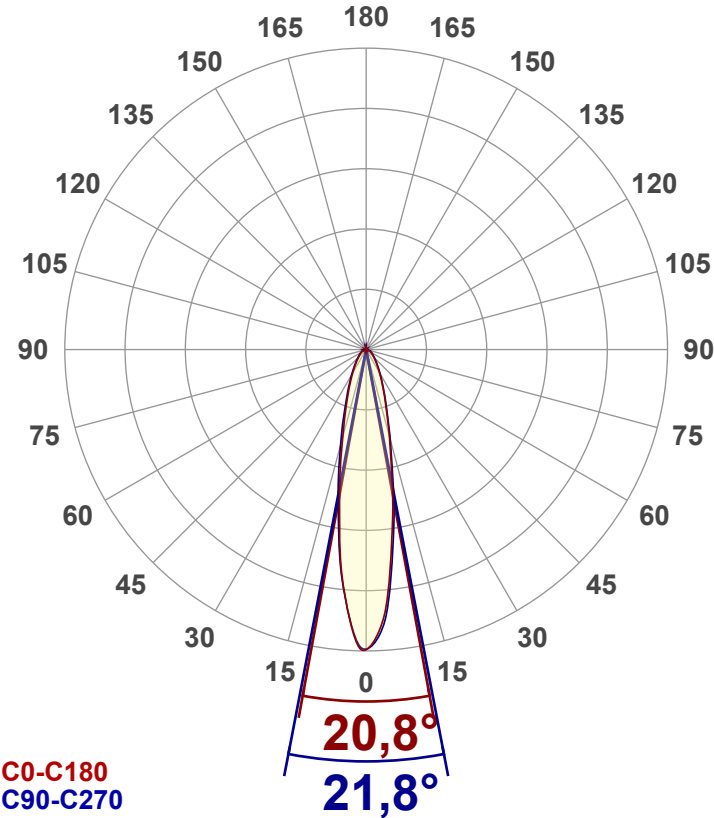
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## Luminous Intensity diagram

Unit: 0-100% of peak intensity



## Main Values

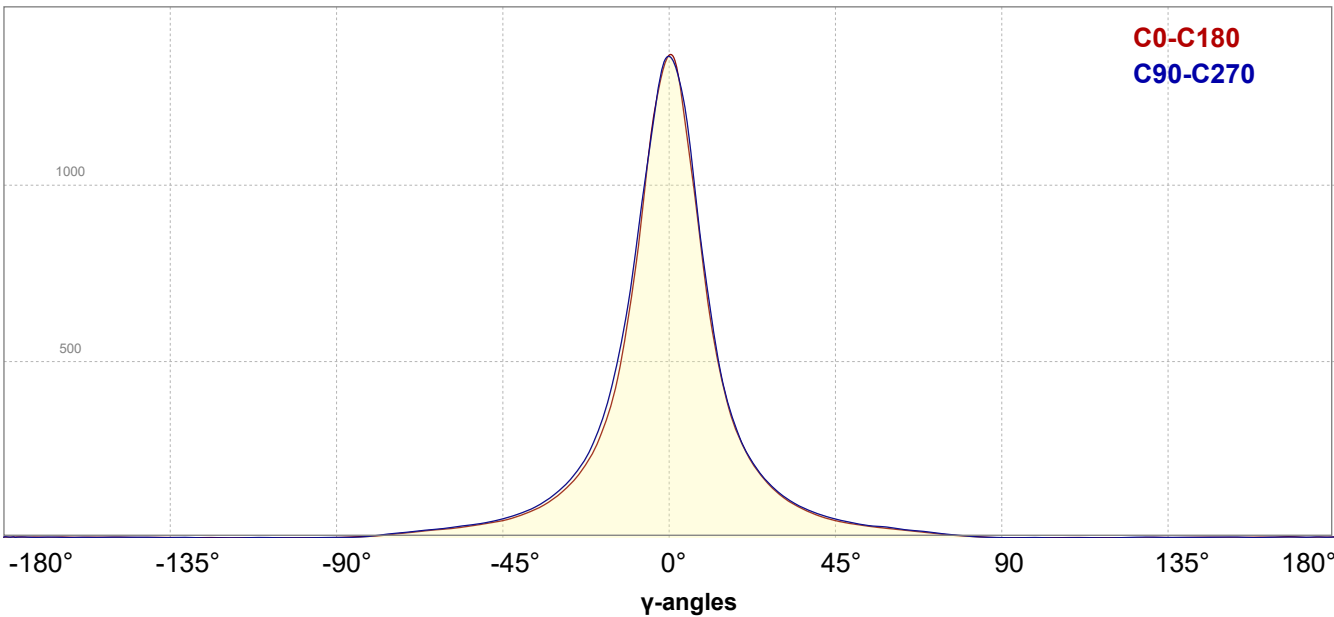
Output (total Lumen)	465 lm
Lumen Up% / Down%	1,21% / 98,79%
Peak Intensity	1369 cd
Beam Angle (50%-FWHM)	21,30°
Field Angle (10%-FWHM)	57,81°
Cutoff Angle (2.5%-FWHM)	{c_ANG/0.00}°

## Intensity Ratios

In 120° cone	465,4
In 90° cone	141,9

## Linear distribution diagram

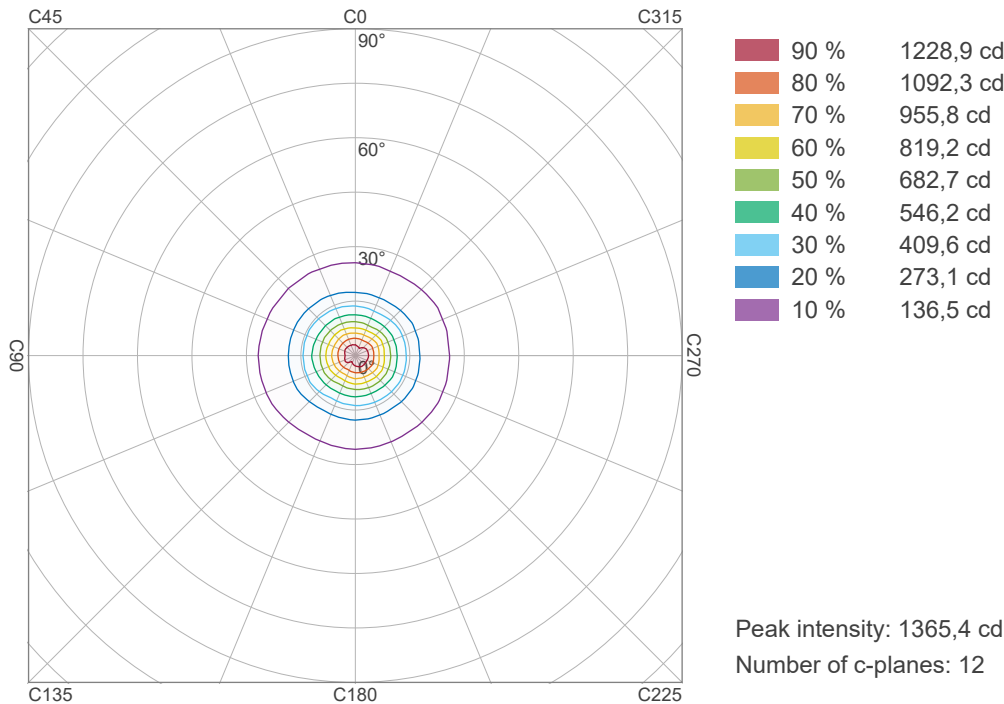
Intensity [cd]



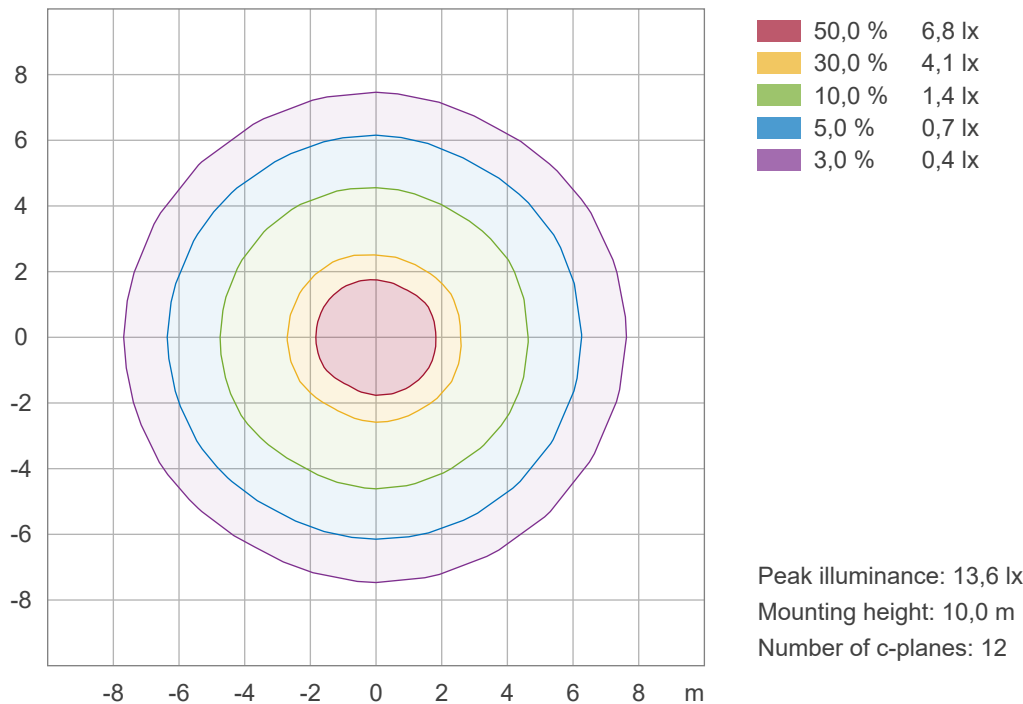
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## Iso-intensity Diagram (Iso-candela)



## Iso-illuminance Diagram (Iso-lux)

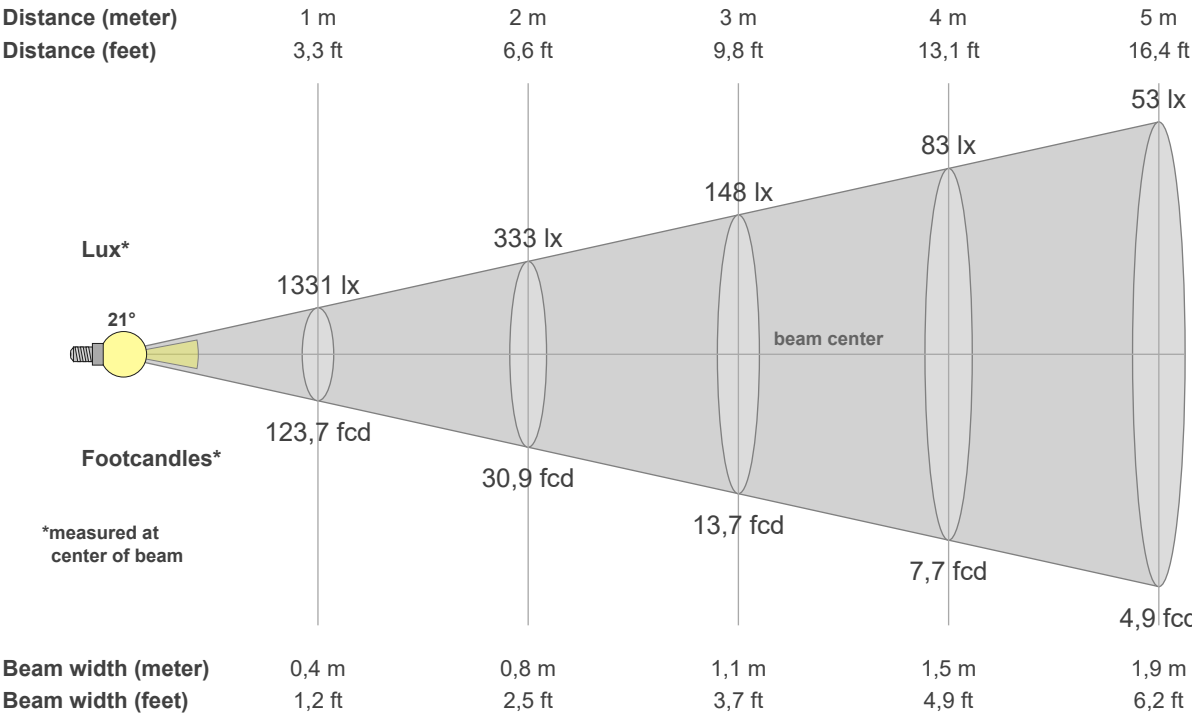


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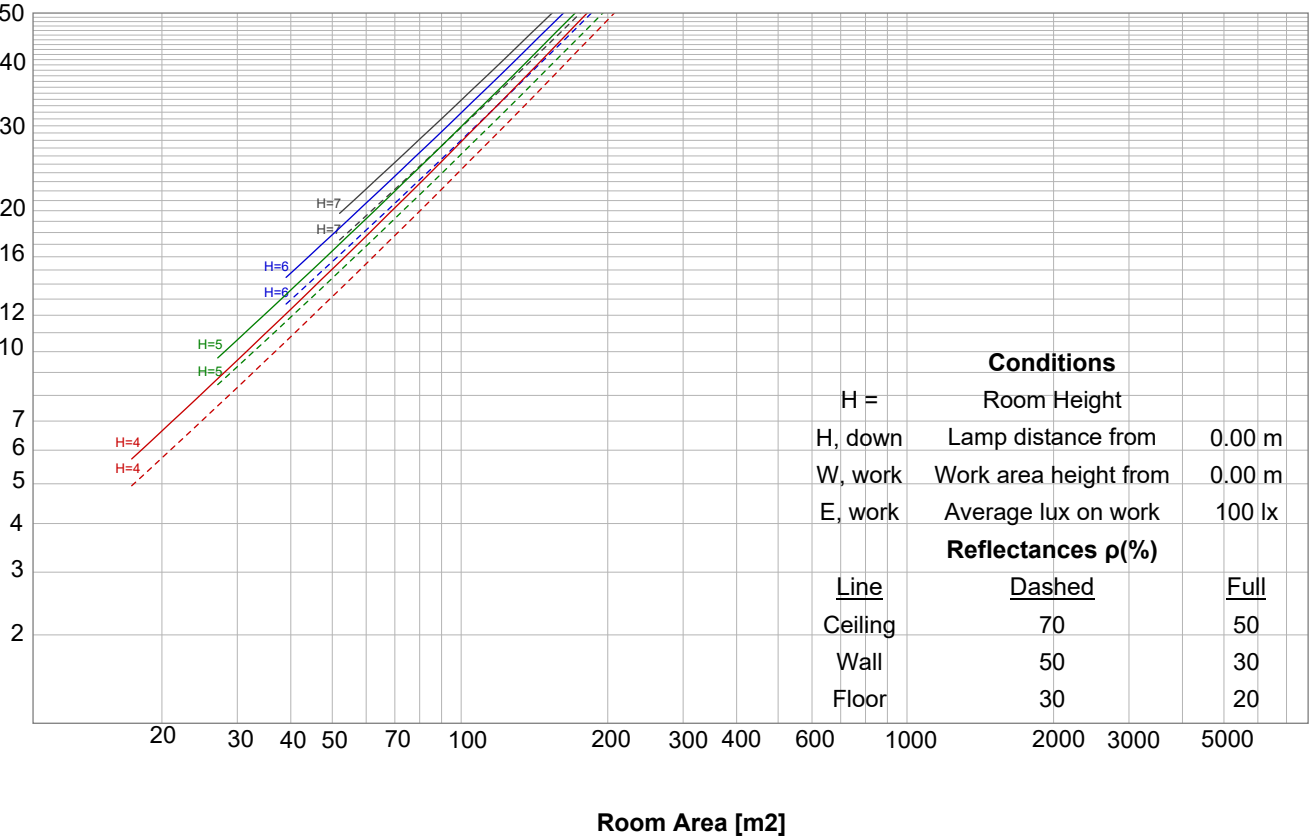


## Beam details



## 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
1331	333	148	83	53	37	27	21	16	13	11	9	8	7	6	5	5	4	4	3	lux
123,7	30,9	13,7	7,7	4,9	3,4	2,5	1,9	1,5	1,2	1	0,9	0,7	0,6	0,5	0,5	0,4	0,4	0,3	0,3	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
1331	1271	1205	1032	858	708	577	450	381	312	261	223	186	164	141	123	107	93	83	73	cd
100%	95%	91%	77%	64%	53%	43%	34%	29%	23%	20%	17%	14%	12%	11%	9%	8%	7%	6%	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
1331	1284	1234	1063	892	739	601	466	394	322	268	230	192	169	146	127	112	98	88	78	cd
100%	96%	93%	80%	67%	55%	45%	35%	30%	24%	20%	17%	14%	13%	11%	10%	8%	7%	7%	6%	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
1331	1305	1174	1043	880	714	578	476	374	319	266	224	194	163	143	124	108	95	83	74	cd
100%	98%	88%	78%	66%	54%	43%	36%	28%	24%	20%	17%	15%	12%	11%	9%	8%	7%	6%	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
1331	1299	1175	1051	899	746	616	513	410	349	288	241	208	175	154	134	117	103	89	80	cd
100%	98%	88%	79%	68%	56%	46%	39%	31%	26%	22%	18%	16%	13%	12%	10%	9%	8%	7%	6%	of 0°val



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

### Forward Light

Low (0-30°)	149,1	lm	32%
Medium (30-60°)	63,1	lm	13,6%
High (60-80°)	16,1	lm	3,5%
Very High (80-90°)	1,5	lm	0,3%

### Back Light

Low (0-30°)	149,4	lm	32,1%
Medium (30-60°)	63	lm	13,5%
High (60-80°)	16	lm	3,4%
Very High (80-90°)	1,5	lm	0,3%

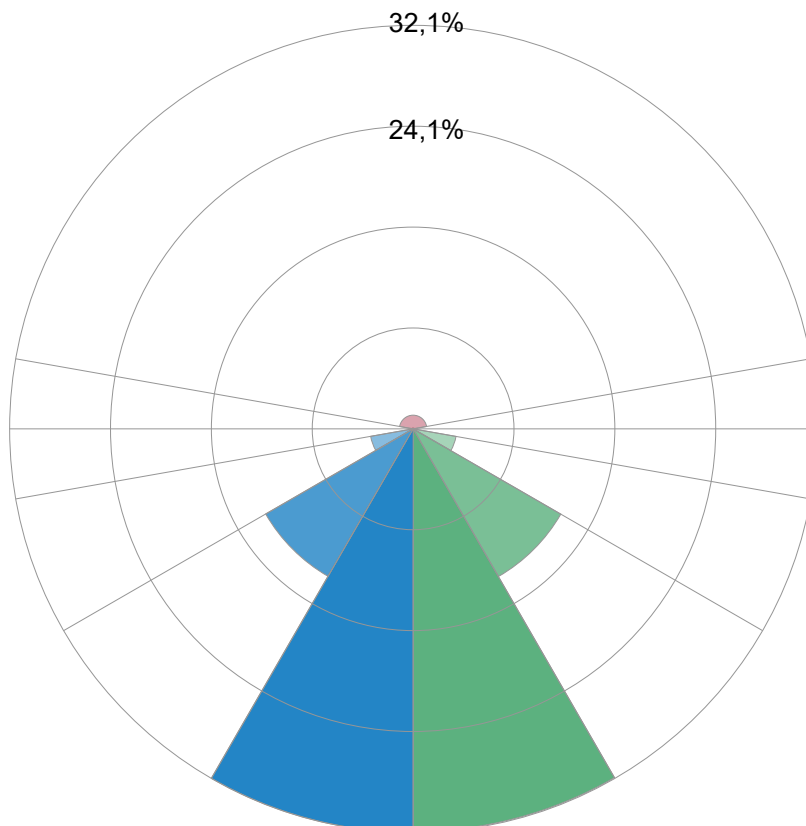
### Uplight

Low (90-100°)	0,6	lm	0,1%
High (100-180°)	5,1	lm	1,1%

Total

<b>Sum</b>	<b>465,4</b>	<b>lm</b>	<b>100%</b>
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### BUG RATING B1 U1 G0



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## UGR Table

*Corrected, comprehensive UGR table according to 117-1995, S/H ratio=0.25*

Reflectances											
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										
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Variations with the observer position for the luminaire spacings, S:											
n/a		n/a					n/a				
n/a		n/a					n/a				
n/a		n/a					n/a				

UGR data could not be calculated due to missing/wrong symmetry. Go to Edit -> Photometric -> Corrections and select Correct asymmetry

### 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	20
<b>RCR</b>	(Room Cavity Ratio)				Room values are expressed as percentage of Lumen delivered to the task surface													
0	118,8	118,8	118,8	118,8	115,9	115,9	115,9	115,9	110,4	110,4	110,4	105,5	105,5	105,5	100,9	100,9	100,9	98,8
1	112,2	108,9	106,1	103,5	109,5	106,6	104,0	101,7	102,3	100,2	98,3	98,4	96,7	95,2	94,7	93,4	92,2	90,3
2	105,8	100,2	95,6	91,7	103,4	98,4	94,2	90,6	94,9	91,4	88,4	91,7	88,8	86,3	88,7	86,4	84,3	82,5
3	99,9	92,8	87,2	82,8	97,8	91,3	86,2	82,0	88,4	84,1	80,6	85,8	82,2	79,1	83,3	80,3	77,8	76,0
4	94,7	86,4	80,4	75,8	92,7	85,2	79,6	75,3	82,8	78,0	74,2	80,6	76,5	73,2	78,6	75,1	72,2	70,6
5	89,9	81,0	74,7	70,1	88,1	79,9	74,1	69,7	78,0	72,9	69,0	76,1	71,7	68,3	74,4	70,6	67,5	65,9
6	85,6	76,2	69,9	65,4	84,0	75,3	69,4	65,2	73,7	68,5	64,6	72,1	67,6	64,1	70,7	66,7	63,5	62,0
7	81,7	72,1	65,9	61,5	80,2	71,3	65,5	61,3	69,9	64,7	60,9	68,6	63,9	60,4	67,4	63,2	60,0	58,6
8	78,1	68,4	62,3	58,1	76,8	67,8	62,0	58,0	66,6	61,4	57,6	65,4	60,7	57,3	64,4	60,2	57,0	55,6
9	74,9	65,2	59,2	55,2	73,7	64,6	58,9	55,1	63,6	58,4	54,8	62,6	57,9	54,6	61,7	57,4	54,3	53,0
10	71,9	62,2	56,5	52,6	70,8	61,8	56,2	52,5	60,9	55,8	52,3	60,0	55,4	52,1	59,2	55,0	51,9	50,6

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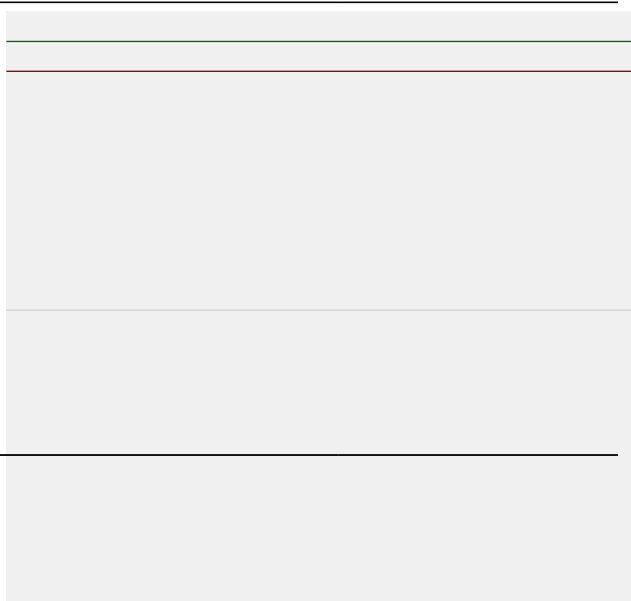


## Power details

### Input power

Frequency of input power	0 Hz
Power feed to light source	7,2 W
RMS Input voltage feed V,RMS	24,0 V
RMS Input current feed I,RMS	0,301 A
Volt-Amp or apparent power =	7,22 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 12,9%

Lumen efficiency 64 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

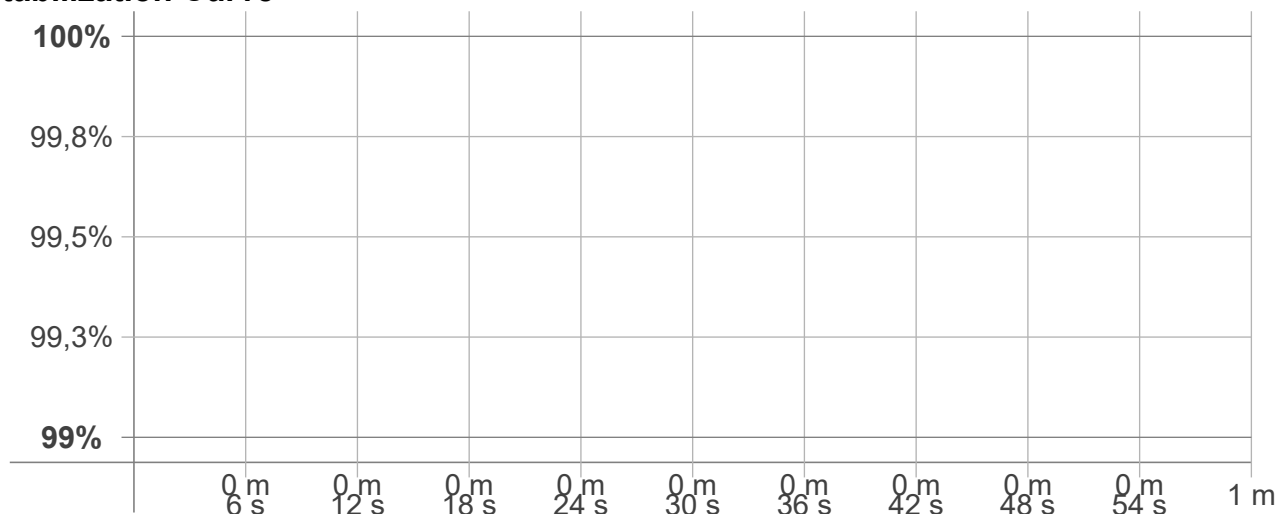
### Warmup Result

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

### Output Change

Output start	n/a lm
Output change	n/a lm
Output end	465 lm

## Stabilization Curve



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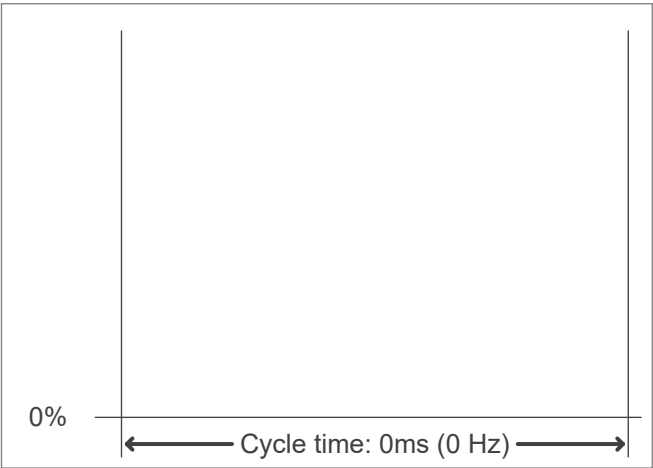
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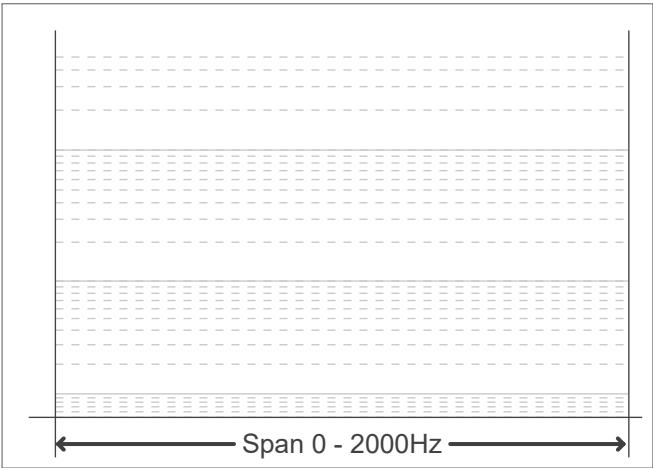
## Flicker TLA details

Flicker Meter Type	Viso Systems LabFlicker	Measurement time	
Frequency of input power	0 Hz	PstLM	180 sec.
Flicker/TLA sample rate	n/a samples/s	All other indices	1,5 sec,
<b>Flicker indices according to Illuminating Engineering Society</b>		<b>Flicker indices according to California Energy Commission (CEC)</b>	
Flicker frequency	n/a Hz	JA8/10 40 Hz	n/a %
Percent Flicker	n/a %	JA8/10 90 Hz	n/a %
Flicker index	n/a	JA8/10 200 Hz	n/a %
		JA8/10 400 Hz	n/a %
		JA8/10 1000 Hz	n/a %
<b>TLA indices (re IEC TR 61547-1, IEC 61000-3-3 and IEC</b>		<b>Flicker indices according to Lighting Research Center (2015)</b>	
PstLM value ( $F < 80$ Hz)	n/a	Perception metric, Assist Mp	n/a
SVM value ( $80 < F < 2000$ Hz)	n/a		

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



Flicker FFT (flicker curve in frequency domain)



IEEE 1789 Frequency/modulation plot

