

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°
7,0 W

Tested Light Source

Luminaire
Basic Luminous Shape
Item No.
Manufacturer
Description

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

Main Light Measurement Results

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

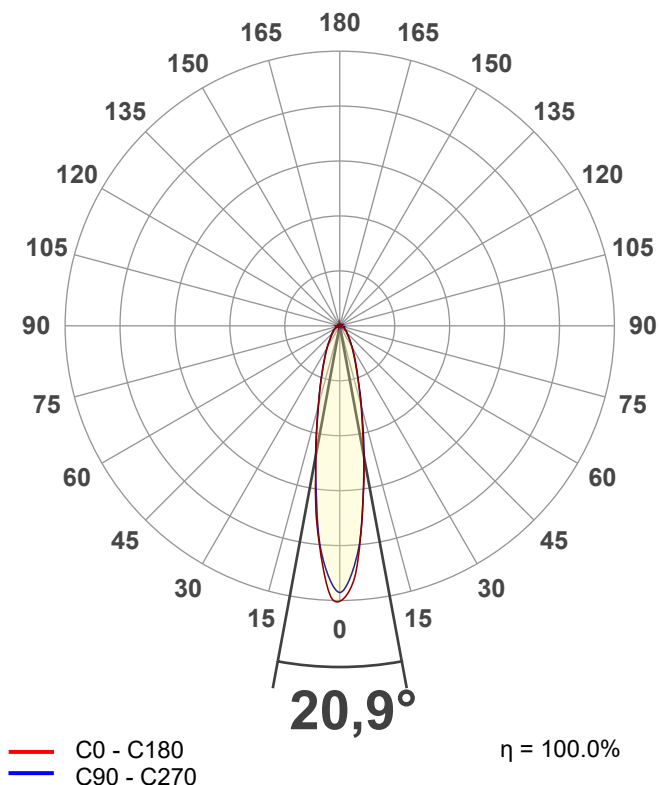
92,2 lm – 1,18% / 98,82%
13 lm/W
273 cd
0 K
CRI 0,0
470 nm
466 nm

Lumen per length
Watt per length

92,20	lm/m	28,10	lm/ft
6,96	W/m	2,12	W/ft

Polar light distribution diagram

Unit: 0-100% of peak intensity



13 lm/W

0 K

Product photo



Print date 21/01/2026
Light measurement results

Color Parameters

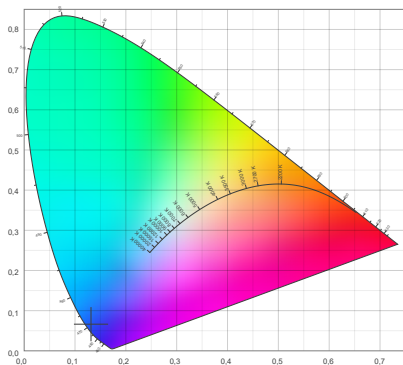
Correlated Color Temperature, Target
Correlated Color Temperature, Measured
Color Rendering Index
Color Rendering Index, R9 (red)
Color Rendering TM30-18

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

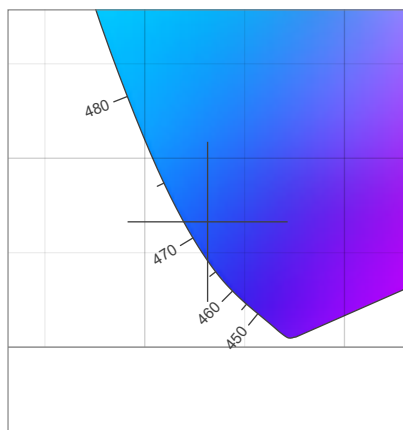
MacAdam Steps
Color deviation from BBL
Color coordinates CIE 1931
Color coordinate CIEs 1960
Color coordinate CIEs 1976
Color Quality Scale

SDCM = n/a
Duv = n/a
(x;y) = (0,131;0,066)
(u;v) = (0,149;0,113)
(u';v') = (0,149;0,169)
CQS = 0,0

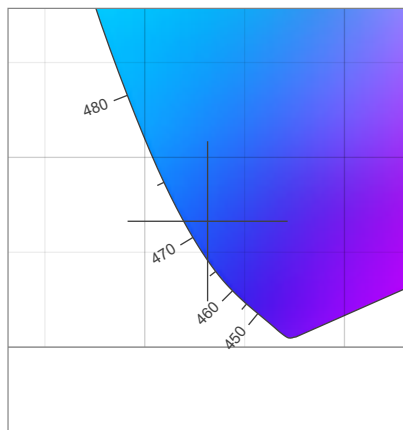
CIE 1931 Chromaticity diagram



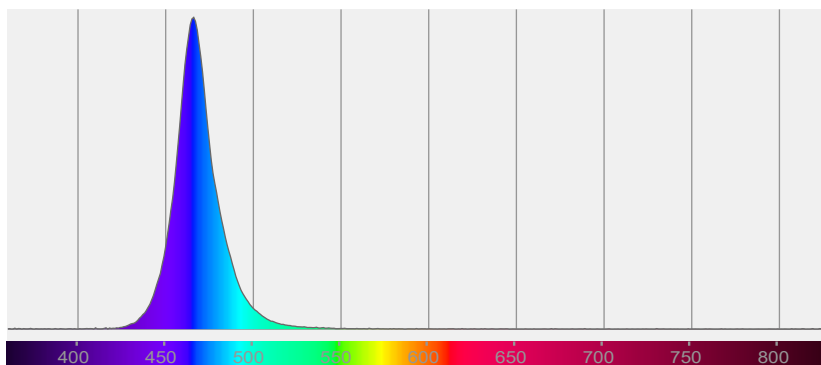
CIE 1931 Chromaticity - zoomed



CIE 1931 Chromaticity - SDCM



Spectral power distribution



Color Rendering Index per reference color (CIE 1995)

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15	

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

[illegible]

TM30-18 Rf-values per hue bin

TM30-18 Rf-values per hue bin

[illegible]

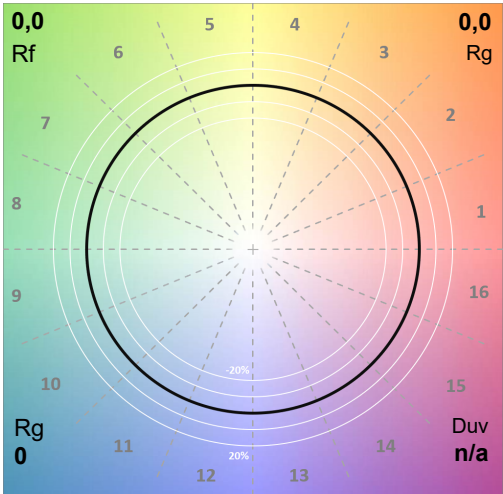
Test report

Print date 21/01/2026
Light measurement results

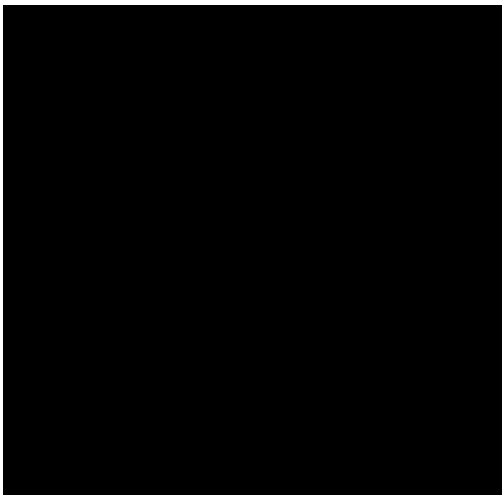


Color details - ANSI/IES TM-30-18 Color Rendition Report

Color Vector Graphic



Color Distortion Graphic



CIE x 0,131
CIE y 0,131
CIE u' 0,149
CIE v' 0,169

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)

Test report

Print date 21/01/2026
Light measurement results



Color Rendering Index (CQS)

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

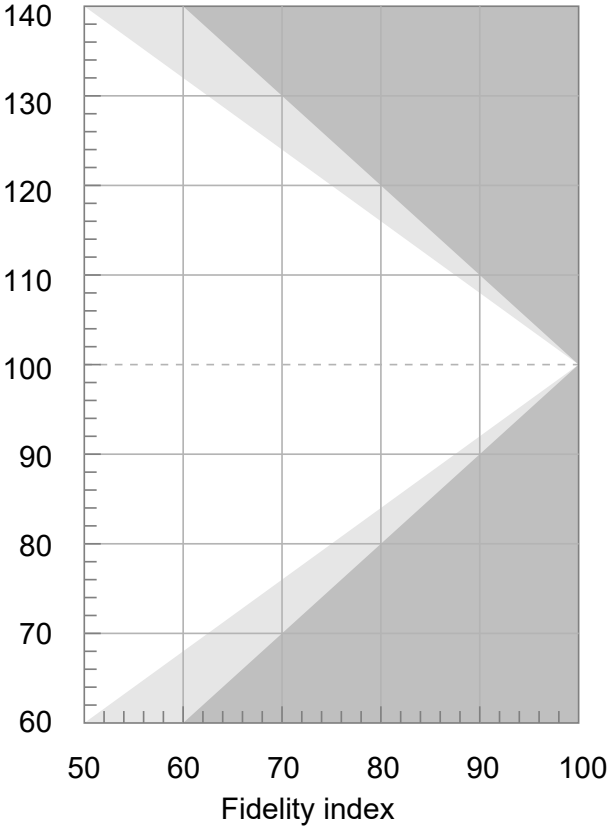
Q1	0,00		Q9	0,00
Q2	0,00		Q10	0,00
Q3	0,00		Q11	0,00
Q4	0,00		Q12	0,00
Q5	0,00		Q13	0,00
Q6	0,00		Q14	0,00
Q7	0,00		Q15	0,00
Q8	0,00		CQS	0,00

		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



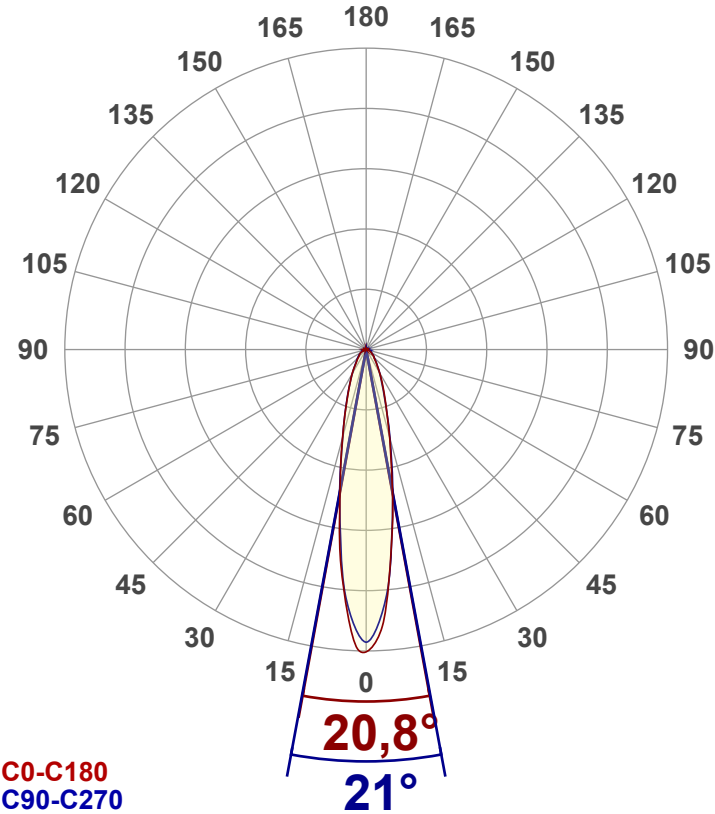
Test report

Print date 21/01/2026
Light measurement results



Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

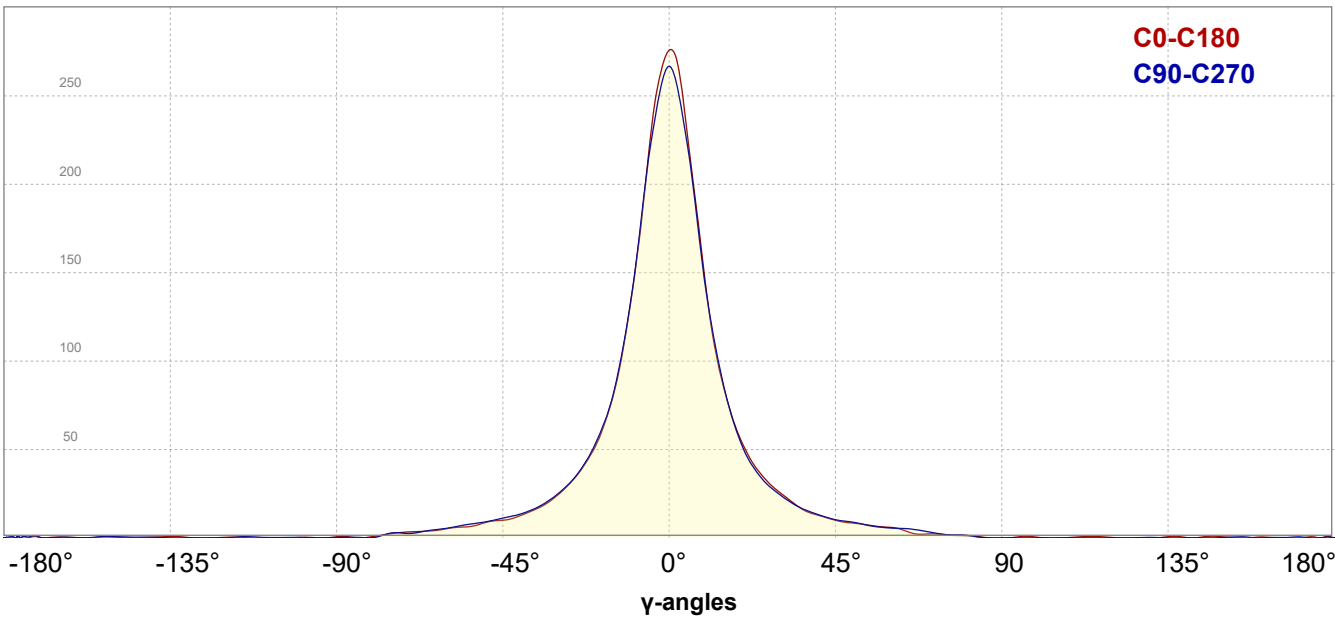
Output (total Lumen)	92,2 lm
Lumen Up% / Down%	1,18% / 98,82%
Peak Intensity	273 cd
Beam Angle (50%-FWHM)	20,95°
Field Angle (10%-FWHM)	57,92°
Cutoff Angle (2.5%-FWHM)	{c_ANG/0.00}°

Intensity Ratios

In 120° cone	92,2
In 90° cone	28,1

Linear distribution diagram

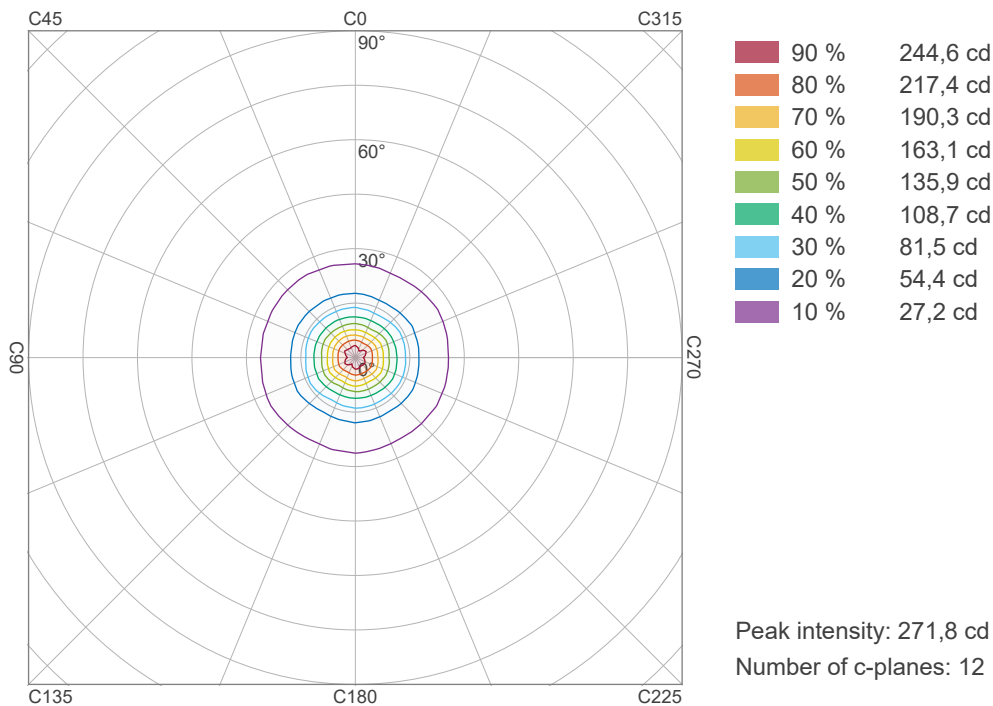
Intensity [cd]



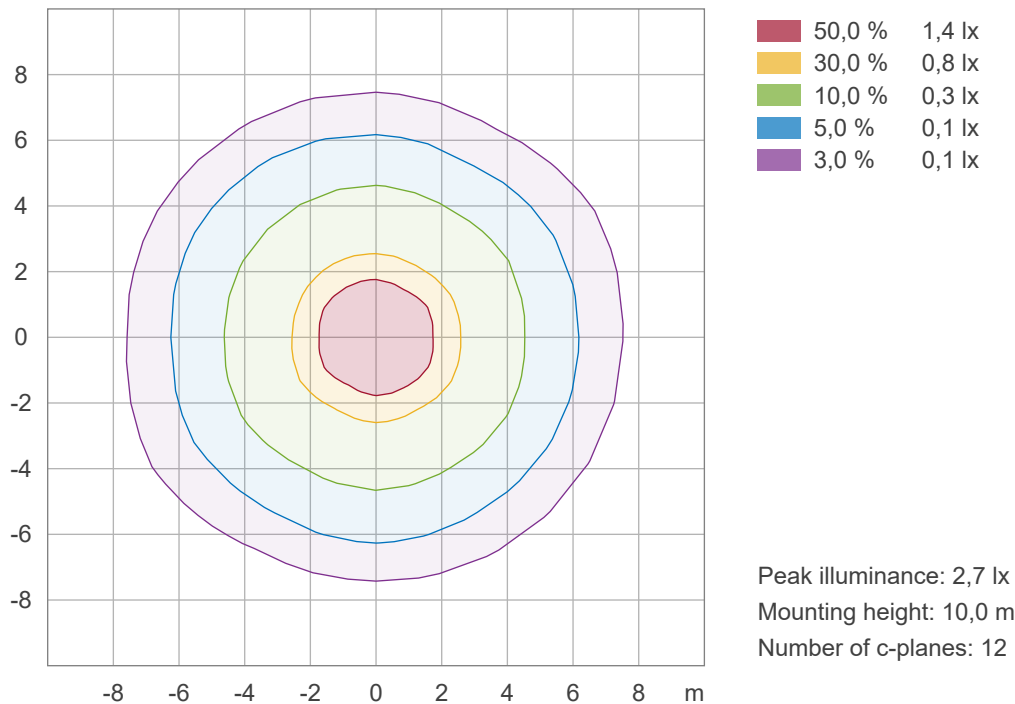
Test report

Print date 21/01/2026
Light measurement results

Iso-intensity Diagram (Iso-candela)



Iso-illuminance Diagram (Iso-lux)

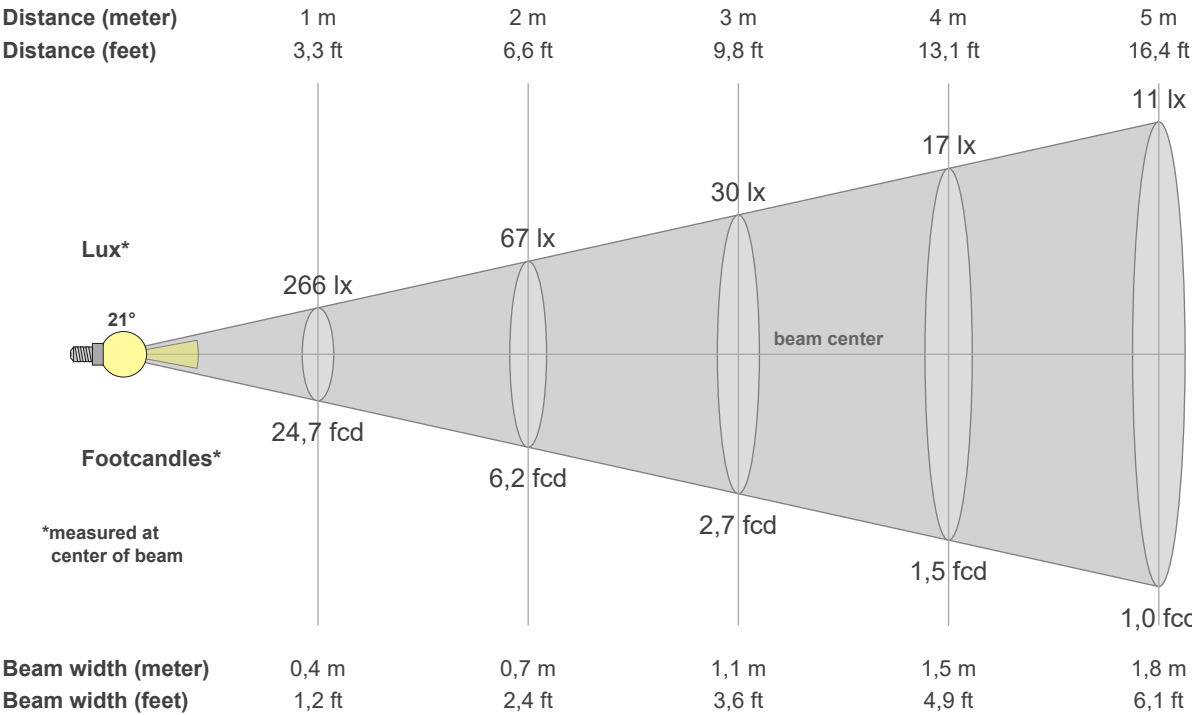


Test report

Print date 21/01/2026
Light measurement results

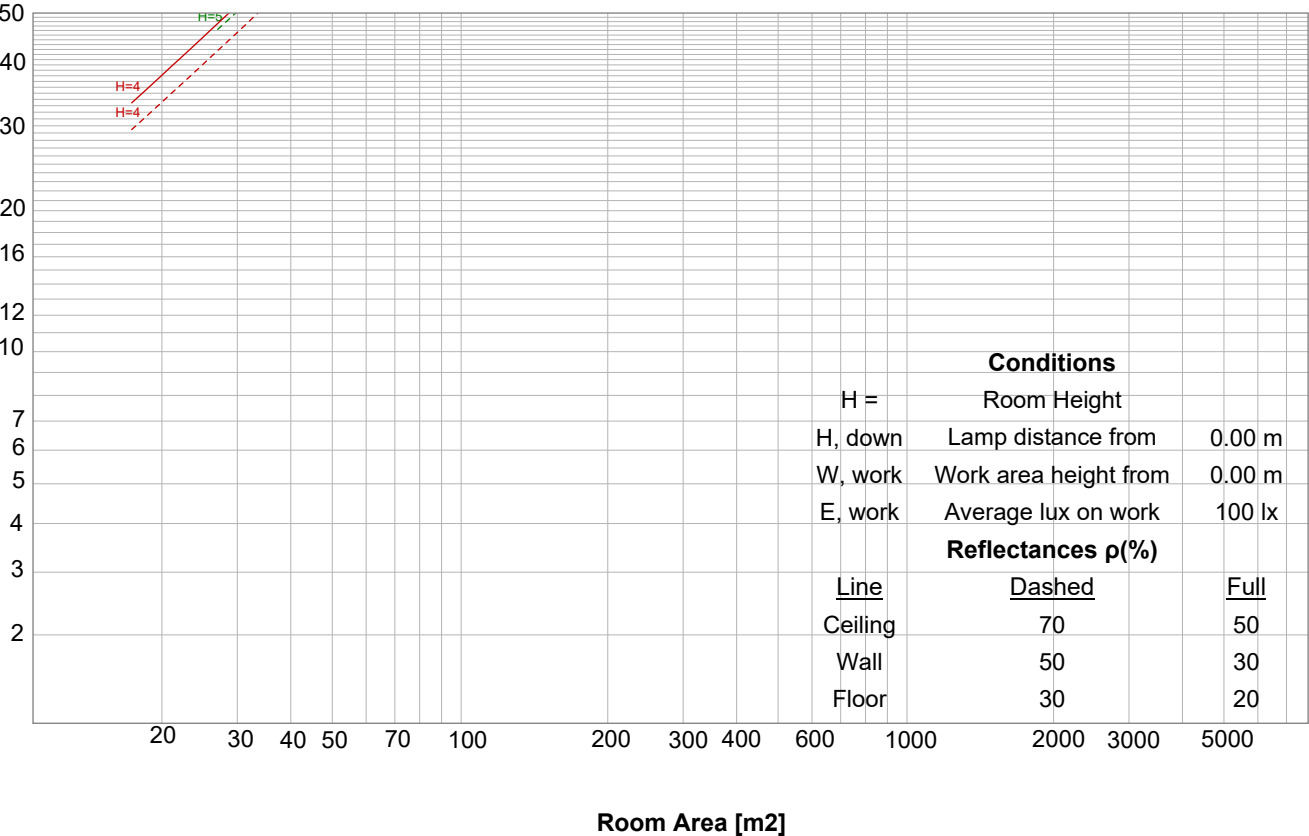


Beam details



Luminaire budgetary diagram

LAMPS (number of lamps)



Test report

Print date 21/01/2026
Light measurement results



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
266	67	30	17	11	7	5	4	3	3	2	2	2	1	1	1	1	1	1	1	lux
24,7	6,2	2,7	1,5	1	0,7	0,5	0,4	0,3	0,2	0,2	0,2	0,1	0,1	0,1	0,1	0,1	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
266	258	241	206	171	142	115	92	77	62	53	45	38	33	29	25	22	19	17	15	cd
100%	97%	91%	77%	64%	53%	43%	34%	29%	23%	20%	17%	14%	13%	11%	9%	8%	7%	6%	5%	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
266	249	230	205	172	139	117	95	77	64	51	44	37	32	28	24	22	19	17	15	cd
100%	93%	86%	77%	65%	52%	44%	36%	29%	24%	19%	16%	14%	12%	11%	9%	8%	7%	6%	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
266	268	238	208	176	143	113	95	77	64	54	45	39	34	29	26	22	19	16	15	cd
100%	101%	89%	78%	66%	54%	42%	36%	29%	24%	20%	17%	15%	13%	11%	10%	8%	7%	6%	5%	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
266	249	231	206	172	139	116	94	77	65	53	46	39	34	29	25	22	19	17	15	cd
100%	93%	87%	77%	65%	52%	44%	35%	29%	24%	20%	17%	15%	13%	11%	9%	8%	7%	6%	6%	of 0°val

Test report

Print date 21/01/2026
Light measurement results

IESNA TM-15-07 LUMINAIARE CLASSIFICATION SYSTEM FOR OUTDOOR

Forward Light

Low (0-30°)	29,3	lm	31,8%
Medium (30-60°)	12,7	lm	13,8%
High (60-80°)	3,2	lm	3,4%
Very High (80-90°)	0,2	lm	0,3%

Back Light

Low (0-30°)	29,5	lm	32%
Medium (30-60°)	12,8	lm	13,9%
High (60-80°)	3,2	lm	3,4%
Very High (80-90°)	0,2	lm	0,2%

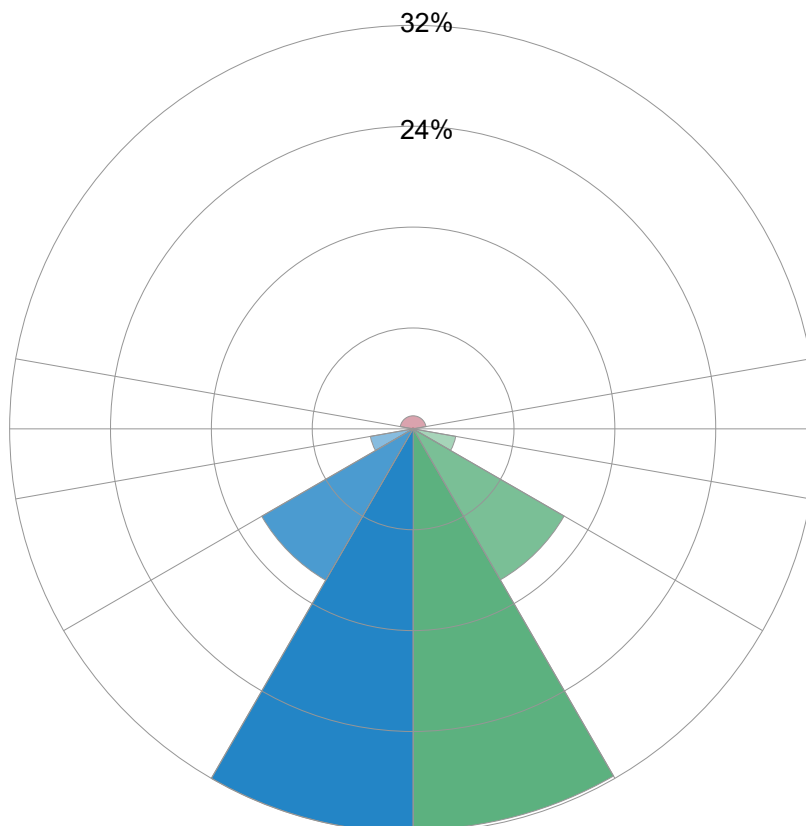
Uplight

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

Total

Sum	92,2	lm	100%
------------	-------------	-----------	-------------

BUG RATING B0 U1 G0



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

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	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	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
RCR		(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	110,5	110,5	110,5	105,5	105,5	105,5	101,0	101,0	101,0	98,8
1	112,2	109,0	106,2	103,6	109,6	106,7	104,2	101,8	102,4	100,4	98,5	98,5	96,8	95,3	94,8	93,5	92,3	90,4
2	105,8	100,3	95,7	91,8	103,4	98,4	94,2	90,7	94,9	91,5	88,5	91,7	88,9	86,4	88,7	86,5	84,4	82,6
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	94,6	86,4	80,3	75,7	92,7	85,1	79,5	75,2	82,8	78,0	74,1	80,6	76,5	73,1	78,5	75,0	72,2	70,5
5	89,8	80,9	74,6	70,0	88,0	79,8	74,0	69,6	77,9	72,8	68,9	76,0	71,6	68,1	74,3	70,5	67,4	65,8
6	85,5	76,1	69,8	65,3	83,9	75,2	69,3	65,0	73,6	68,3	64,4	72,0	67,4	63,9	70,6	66,5	63,4	61,8
7	81,5	71,9	65,7	61,3	80,1	71,2	65,3	61,1	69,7	64,5	60,7	68,4	63,7	60,2	67,2	63,0	59,8	58,4
8	77,9	68,2	62,1	57,9	76,6	67,6	61,8	57,7	66,4	61,1	57,4	65,2	60,5	57,1	64,2	59,9	56,8	55,4
9	74,7	64,9	59,0	54,9	73,5	64,4	58,7	54,8	63,3	58,2	54,5	62,4	57,7	54,3	61,4	57,2	54,1	52,7
10	71,7	62,0	56,2	52,3	70,6	61,5	56,0	52,2	60,6	55,5	52,0	59,8	55,1	51,8	59,0	54,7	51,6	50,3

Test report

Print date 21/01/2026
Light measurement results



Power details

Input power

Frequency of input power	0 Hz
Power feed to light source	7,0 W
RMS Input voltage feed V,RMS	24,0 V
RMS Input current feed I,RMS	0,290 A
Volt-Amp or apparent power =	6,96 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 18,0%

Lumen efficiency 13 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

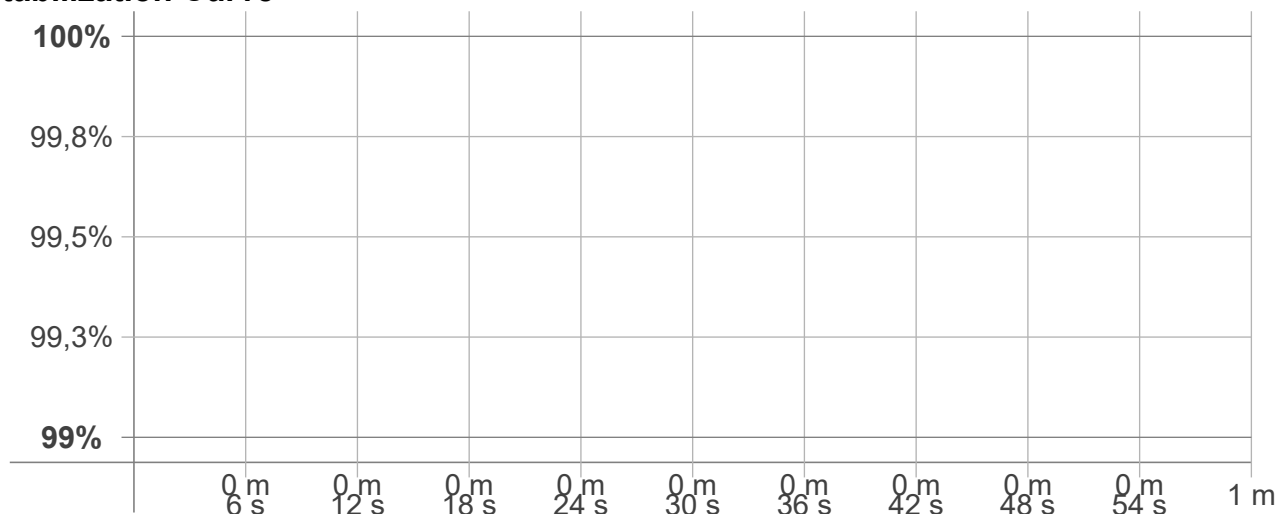
Warmup Result

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

Output Change

Output start	n/a lm
Output change	n/a lm
Output end	92,2 lm

Stabilization Curve



Test report

Print date 21/01/2026
Light measurement results



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
------------------------------	-----

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



Flicker FFT (flicker curve in frequency domain)



IEEE 1789 Frequency/modulation plot

