

Test report

Print date 1/26/2026
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
12/30/2025
bob

Measurement Conditions

Tested c-planes
Tested gamma resolution
Input Power

12 planes - 30°
5°
0.55 W

Tested Light Source

Luminaire
Basic Luminous Shape
Item No.
Manufacturer
Description

AD35241.8RGB27MDBKS-GREEN-1
SPOT
Acolyte
SIZE: D35MM Milky Dome Lensline smaple 1

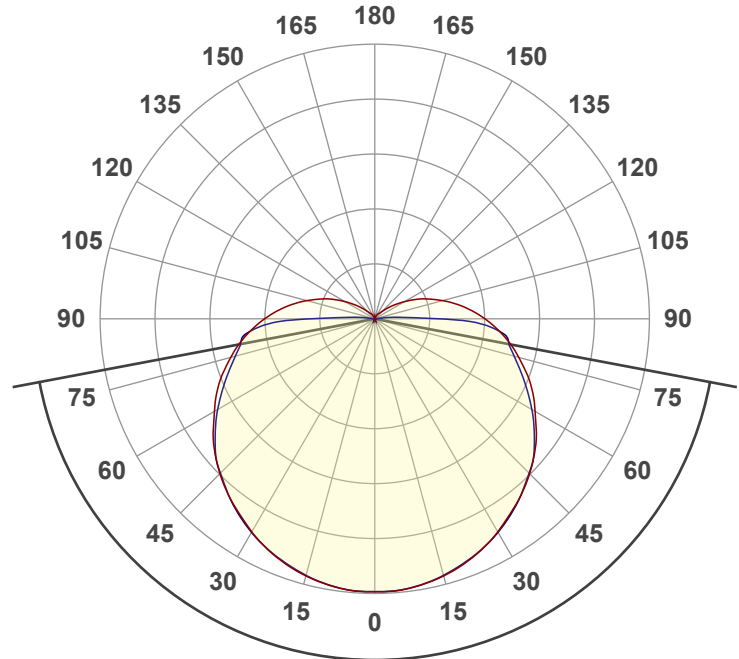
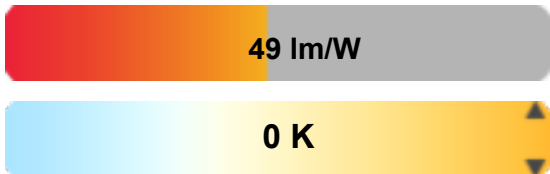
Main Light Measurement Results

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

26.9 lm - 15.33% / 84.67%
49 lm/W
5.31 cd
0 K
CRI 0.0
527 nm
521 nm

Polar light distribution diagram

Unit: 0-100% of peak intensity



158.6°

C0 - C180
C90 - C270

$\eta = 100.0\%$

Product photo



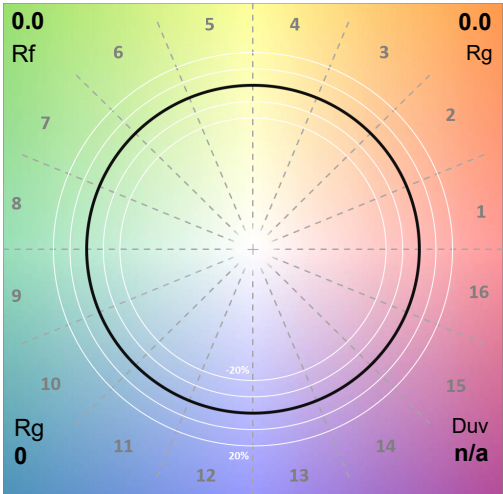
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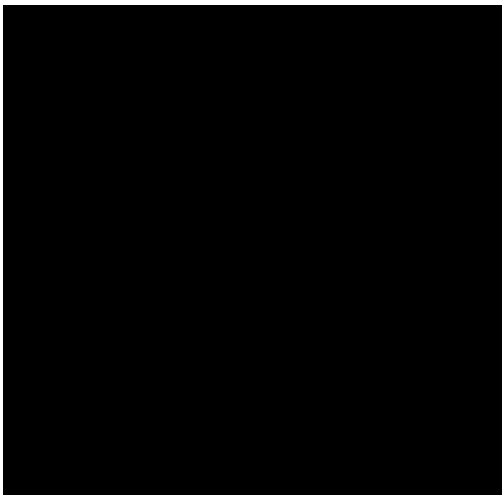


Color details - ANSI/IES TM-30-18 Color Rendition Report

Color Vector Graphic



Color Distortion Graphic



CIE x 0.162
CIE y 0.162
CIE u' 0.056
CIE v' 0.576

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

Hue Bin	Rf	Shifts (%)	
		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

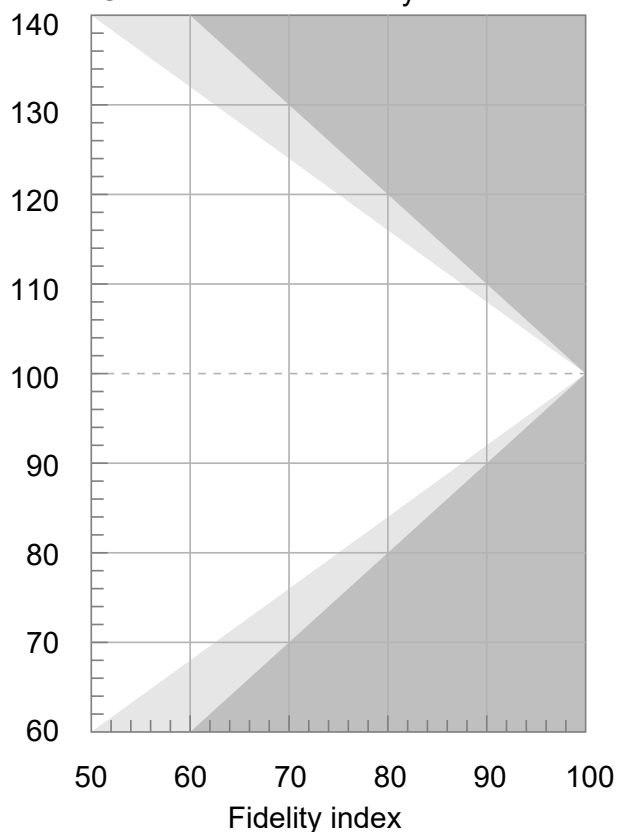
Gamut Index Rf

Gamut index

Rf 0.0

Fidelity Index Rf

Gamut Index vs. Fidelity



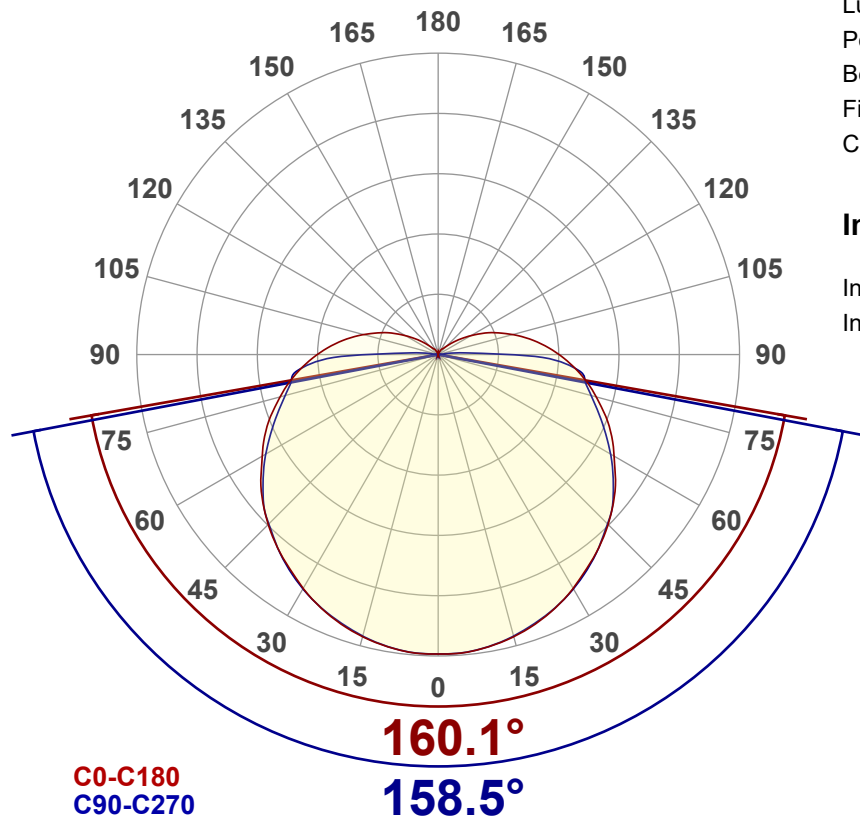
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Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

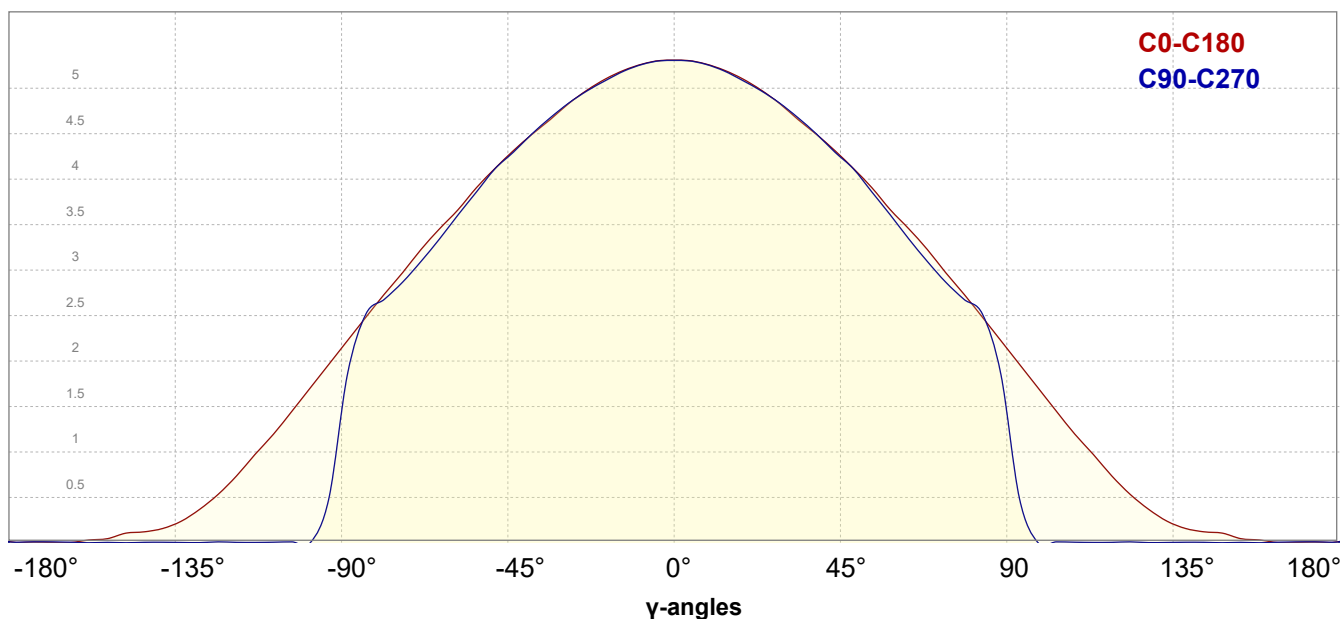
Output (total Lumen)	26.9 lm
Lumen Up% / Down%	15.33% / 84.67%
Peak Intensity	5.31 cd
Beam Angle (50%-FWHM)	158.63°
Field Angle (10%-FWHM)	235.31°
Cutoff Angle (2.5%-FWHM)	{c_ANG/0.00}°

Intensity Ratios

In 120° cone	767.2
In 90° cone	233.8

Linear distribution diagram

Intensity [cd]

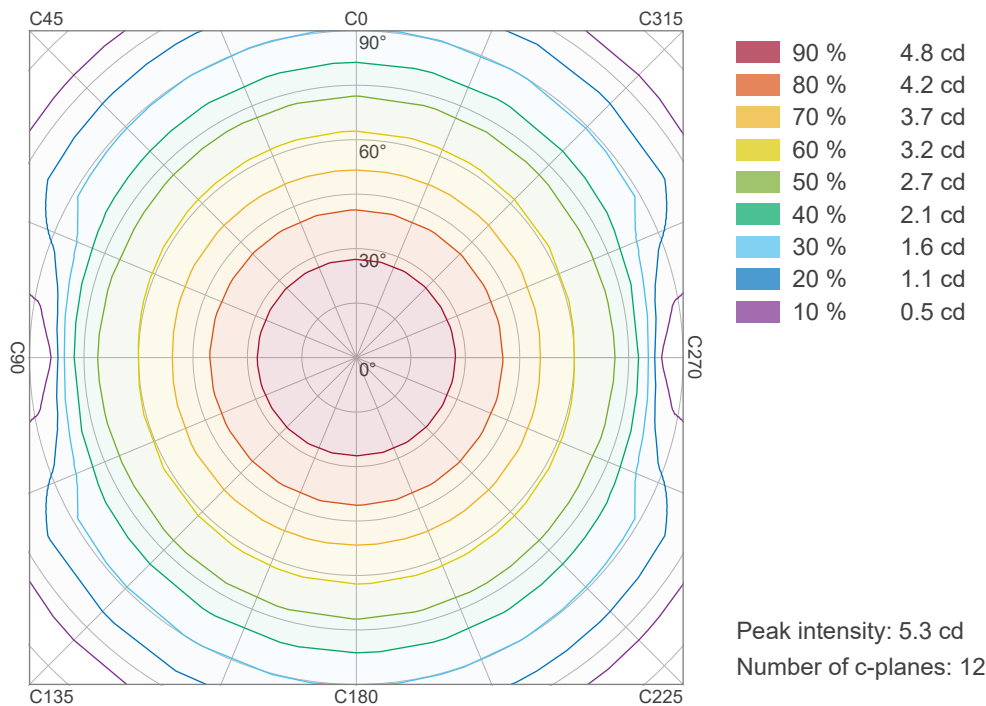


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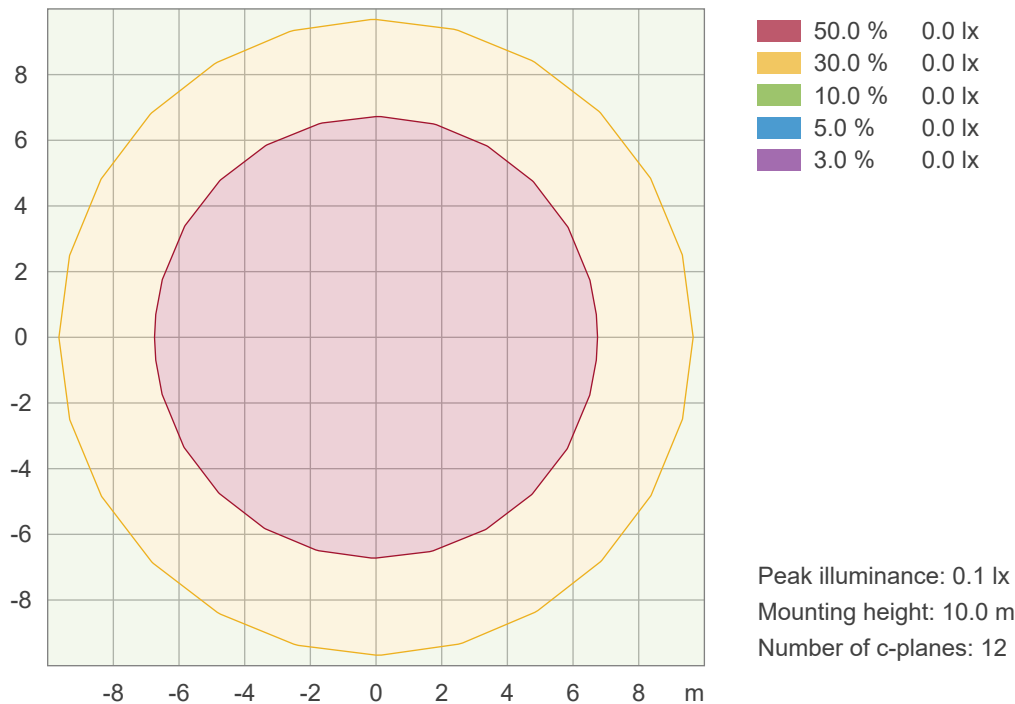
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Iso-intensity Diagram (Iso-candela)



Iso-illuminance Diagram (Iso-lux)

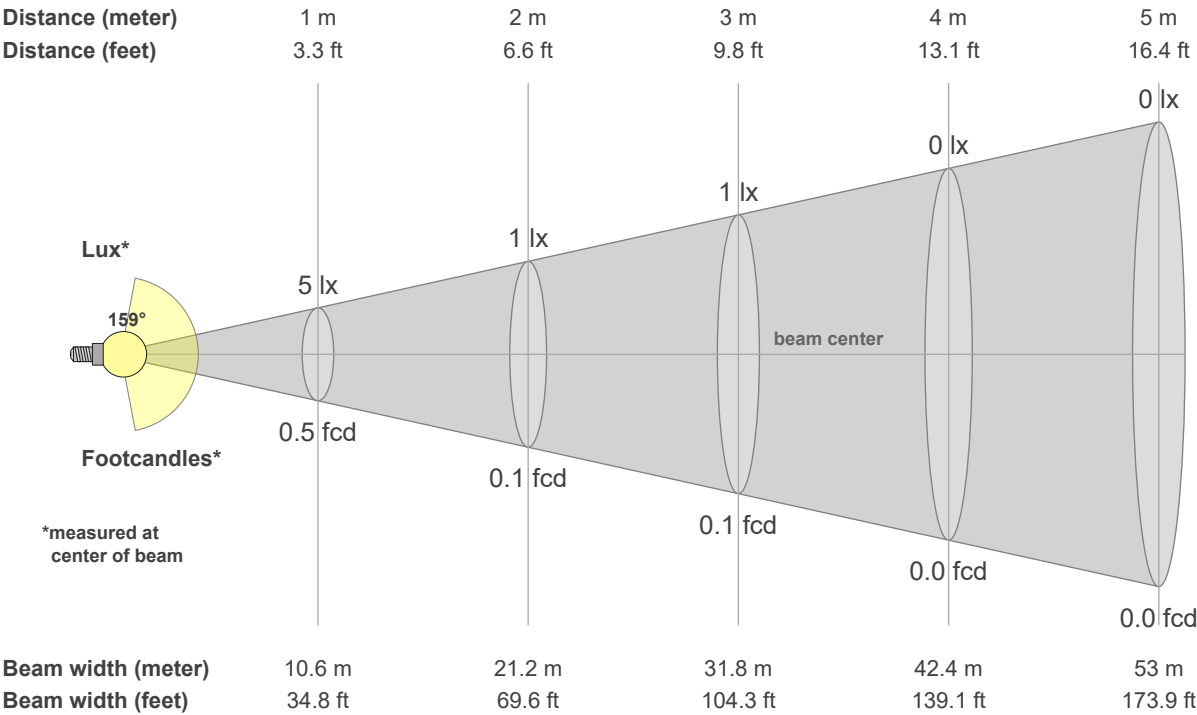


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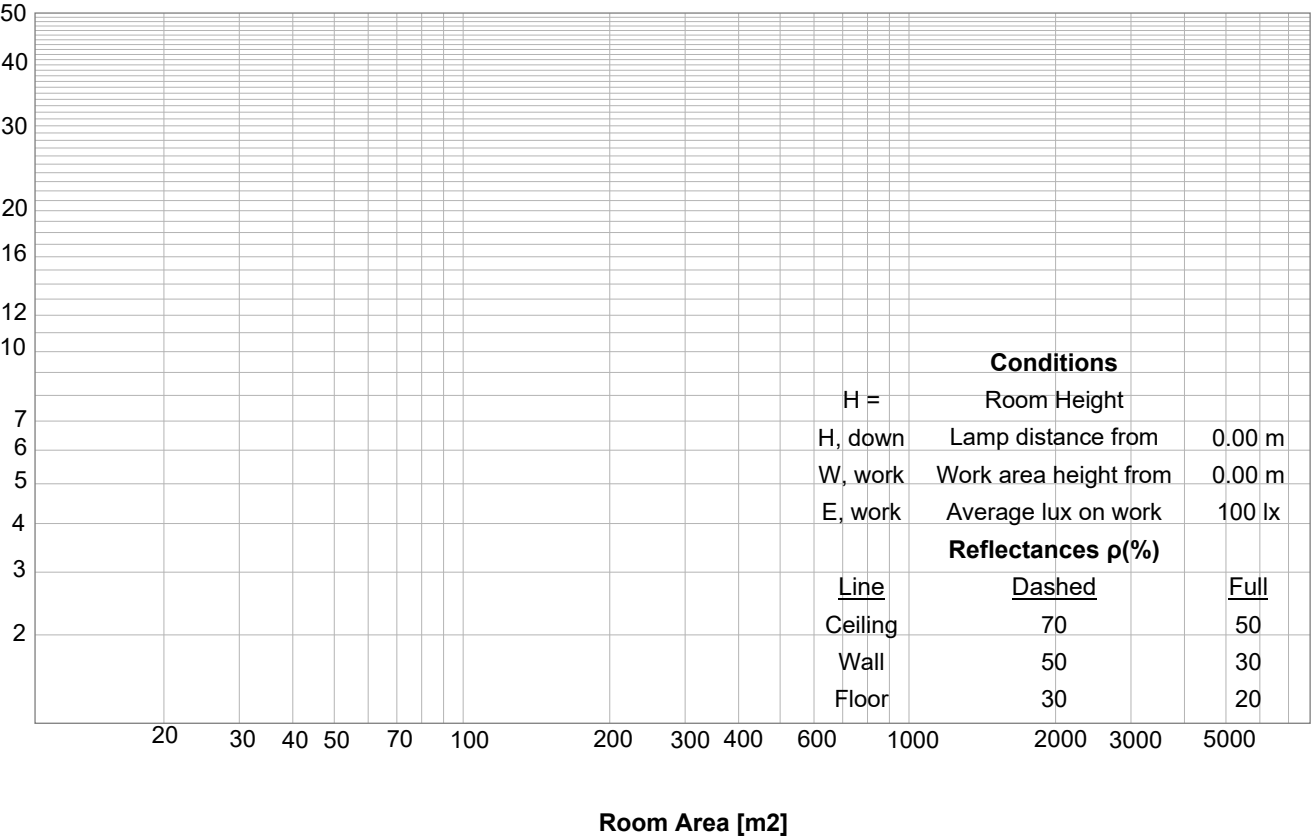


Beam details



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
5	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	lux
0.5	0.1	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	fc

Intensities in 0° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°	γ
5.31	5.26	5.11	4.88	4.57	4.25	3.88	3.47	3.05	2.60	2.14	1.68	1.22	0.80	0.45	0.21	0.12	0.05	0.01	0.01	cd
100%	99%	96%	92%	86%	80%	73%	65%	57%	49%	40%	32%	23%	15%	8%	4%	2%	1%	0%	0%	of 0°val

Intensities in 90° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°	γ
5.31	5.26	5.10	4.88	4.59	4.24	3.83	3.37	2.93	2.59	1.42	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	cd
100%	99%	96%	92%	86%	80%	72%	63%	55%	49%	27%	0%	0%	0%	0%	0%	0%	0%	0%	0%	of 0°val

Intensities in 180° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°	γ
5.31	5.26	5.11	4.88	4.57	4.25	3.88	3.47	3.05	2.60	2.14	1.68	1.22	0.80	0.45	0.21	0.12	0.05	0.01	0.01	cd
100%	99%	96%	92%	86%	80%	73%	65%	57%	49%	40%	32%	23%	15%	8%	4%	2%	1%	0%	0%	of 0°val

Intensities in 270° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°	γ
5.31	5.26	5.10	4.88	4.59	4.24	3.83	3.37	2.93	2.59	1.42	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	cd
100%	99%	96%	92%	86%	80%	72%	63%	55%	49%	27%	0%	0%	0%	0%	0%	0%	0%	0%	0%	of 0°val

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IESNA TM-15-07 LUMINAIARE CLASSIFICATION SYSTEM FOR OUTDOOR

Forward Light

Low (0-30°)	2.1	lm	7.9%
Medium (30-60°)	4.8	lm	17.9%
High (60-80°)	3.2	lm	11.8%
Very High (80-90°)	1.3	lm	4.7%

Back Light

Low (0-30°)	2.1	lm	7.9%
Medium (30-60°)	4.8	lm	17.9%
High (60-80°)	3.2	lm	11.8%
Very High (80-90°)	1.3	lm	4.7%

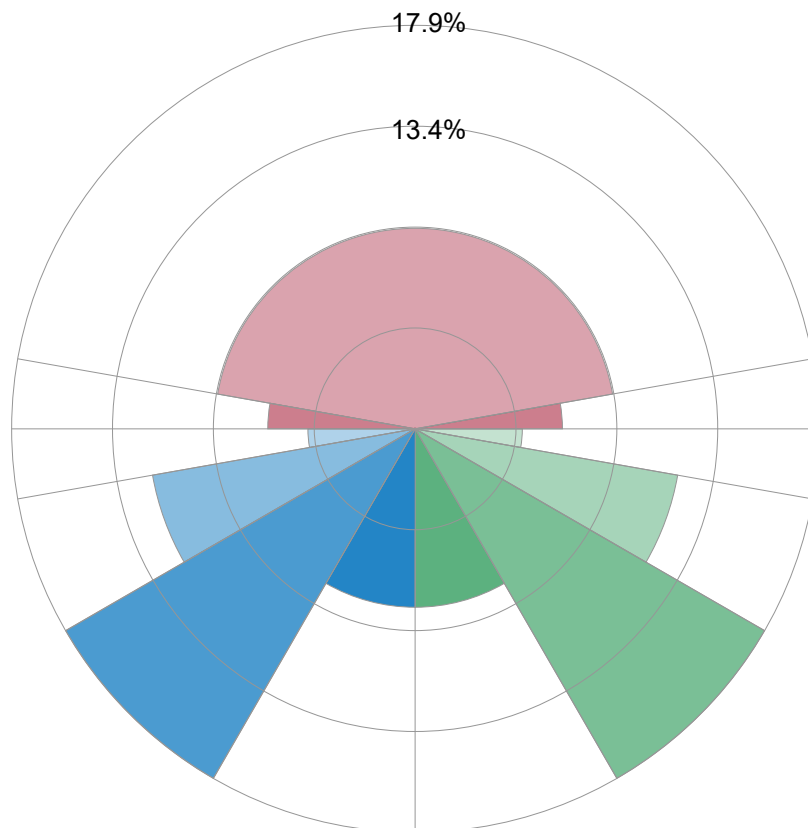
Uplight

Low (90-100°)	1.8	lm	6.5%
High (100-180°)	2.4	lm	8.9%

Total

Sum	26.9	lm	100%
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BUG RATING B0 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											
2H	2H	15.0	16.2	15.5	16.8	17.3	14.9	16.1	15.4	16.7	17.3	
	3H	16.9	18.2	17.5	18.7	19.3	16.8	18.0	17.4	18.6	19.1	
	4H	17.9	19.1	18.5	19.7	20.2	17.8	19.0	18.4	19.5	20.1	
	6H	19.0	20.0	19.5	20.5	21.2	18.8	19.9	19.3	20.4	21.1	
	8H	19.4	20.5	20.0	21.0	21.7	19.3	20.3	19.8	20.9	21.5	
	12H	19.8	20.9	20.4	21.4	22.1	19.7	20.8	20.2	21.3	22.0	
4H	2H	15.7	16.9	16.3	17.4	18.0	15.6	16.8	16.2	17.3	17.9	
	3H	17.9	19.0	18.5	19.5	20.2	17.8	18.9	18.4	19.4	20.1	
	4H	19.0	20.1	19.7	20.6	21.4	18.9	20.0	19.5	20.5	21.3	
	6H	20.1	21.1	20.8	21.6	22.3	20.0	20.9	20.7	21.5	22.2	
	8H	20.7	21.5	21.4	22.1	22.8	20.6	21.4	21.2	22.0	22.7	
	12H	21.2	21.9	21.9	22.6	23.3	21.1	21.8	21.7	22.4	23.2	
8H	4H	19.5	20.3	20.1	20.9	21.6	19.3	20.2	20.0	20.8	21.4	
	6H	20.8	21.5	21.5	22.2	23.0	20.7	21.4	21.4	22.1	22.9	
	8H	21.5	22.1	22.2	22.8	23.7	21.4	22.0	22.1	22.7	23.6	
	12H	22.2	22.7	23.0	23.4	24.3	22.1	22.6	22.8	23.3	24.1	
12H	4H	19.5	20.2	20.2	20.9	21.6	19.4	20.1	20.1	20.8	21.5	
	6H	21.0	21.6	21.7	22.3	23.2	20.9	21.5	21.6	22.2	23.1	
	8H	21.8	22.3	22.5	23.0	23.8	21.6	22.1	22.4	22.9	23.7	
Variations with the observer position for the luminaire spacings, S:												
S = 1.0H		0.1 / 0.0					0.1 / 0.0					
S = 1.5H		0.1 / -0.1					0.1 / -0.1					
S = 2.0H		0.2 / -0.2					0.2 / -0.2					

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	115.4	115.4	115.4	115.4	110.9	110.9	110.9	110.9	102.6	102.6	102.6	95.0	95.0	95.0	88.0	88.0	88.0	84.7
1	101.1	94.6	88.8	83.5	96.6	90.7	85.5	80.7	83.5	79.2	75.3	76.9	73.4	70.2	70.7	68.0	65.4	62.1
2	90.3	80.2	71.9	64.8	86.0	76.9	69.3	62.8	70.7	64.4	59.0	65.0	59.9	55.3	59.7	55.6	51.8	48.6
3	81.4	69.2	59.7	52.2	77.5	66.4	57.7	50.7	61.1	53.8	47.8	56.2	50.1	45.0	51.6	46.6	42.3	39.2
4	74.0	60.5	50.7	43.1	70.4	58.1	49.0	42.0	53.6	45.8	39.7	49.3	42.8	37.5	45.4	39.9	35.4	32.5
5	67.7	53.6	43.7	36.4	64.4	51.5	42.3	35.5	47.6	39.7	33.7	43.9	37.2	31.9	40.5	34.7	30.2	27.4
6	62.3	47.9	38.2	31.3	59.2	46.1	37.1	30.5	42.7	34.9	29.0	39.5	32.7	27.6	36.5	30.7	26.1	23.6
7	57.6	43.1	33.8	27.3	54.8	41.6	32.8	26.6	38.6	30.9	25.4	35.8	29.1	24.1	33.2	27.3	22.9	20.6
8	53.4	39.2	30.2	24.0	50.9	37.8	29.4	23.5	35.2	27.7	22.4	32.7	26.1	21.4	30.4	24.6	20.3	18.1
9	49.8	35.8	27.2	21.4	47.5	34.6	26.5	20.9	32.2	25.0	20.0	30.1	23.7	19.1	28.0	22.3	18.2	16.1
10	46.6	32.9	24.7	19.2	44.5	31.8	24.0	18.8	29.7	22.8	18.0	27.8	21.6	17.2	26.0	20.4	16.4	14.5

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Power details

Input power

Frequency of input power	0 Hz
Power feed to light source	0.55 W
RMS Input voltage feed V,RMS	24.0 V
RMS Input current feed I,RMS	0.023 A
Volt-Amp or apparent power =	0.55 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 9.9%

Lumen efficiency 49 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	26.9 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

