Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-4L-INF-XXXXX-X (B)

Laboratory and Equipment

Test lab	Viso LabSpion - serial: 2007279764 sensor serial: 0690170290 - Test lab
Spectrometer Manufacturer and Model	LabSpion – Type C, horizontal
Measurement serial number	PH-GVA-2026.Mar.17-7378-VO
Measurement date	2026-03-17

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	0.15°
Input Power	0 W

Electrical Data

Input Power	0 W
Input Voltage	117.3 V DC
Input Current	0.00 A
Power Factor	NaN

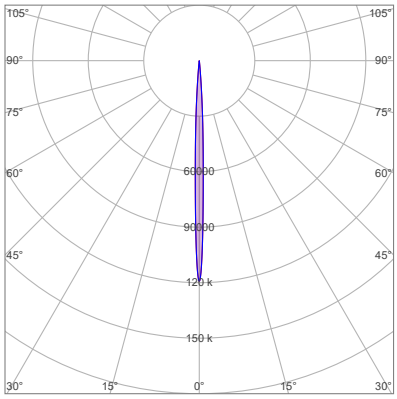
Tested Light Source

Product family	FL200-G2
Luminaire configuration	FL200-G2-XXX-RGBW3083-OM-4L-INF-XXXXX-X (B)
Manufacturer	GVA Lighting, Inc.
Size (width x length x height)	106 mm 0 mm x 430 mm

Main Light Measurement Results

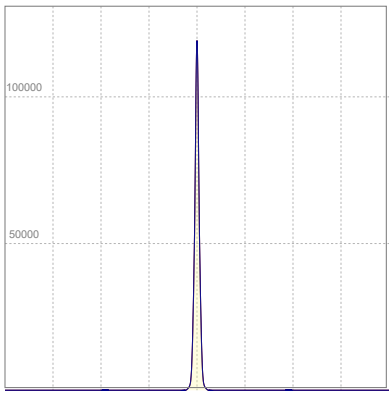
Output – Total Lumen	952.5 - 0% / 100%
Efficiency	∞ lm/W
Peak Intensity	118991
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	4.1°
Beam Angle (FWHM) | C90/270	4.1°
Field Angle (10%) | C0/180	9.2°Unit: 0-100% of peak intensity
Optical Power	21129 mW
Peak Wavelength	455 nm
Dominant Wavelength	459 nm

Polar Light Distribution Diagram
Unit: 0-100% of peak intensity

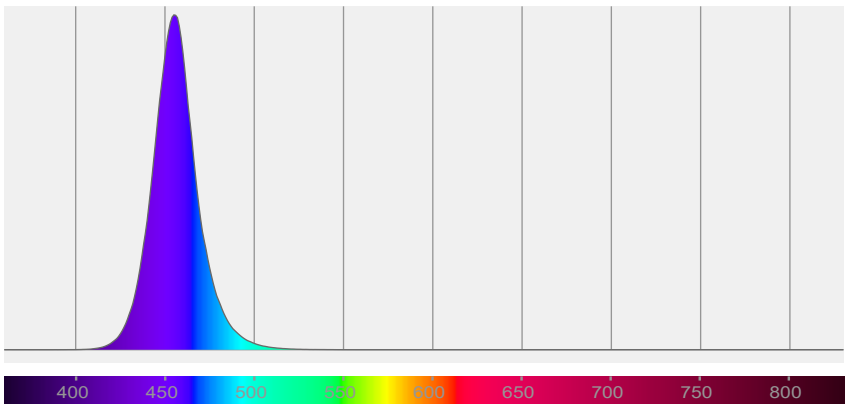


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

NaN K

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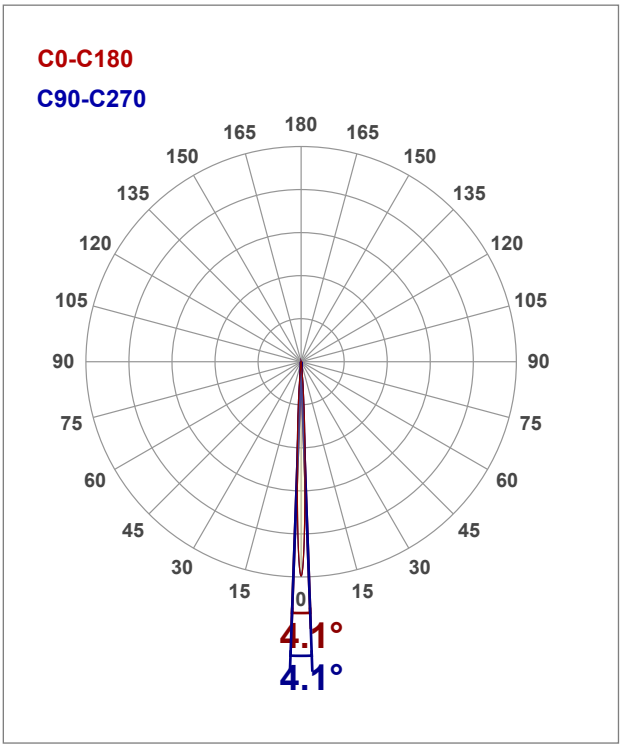
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	952.5 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	118991 cd
Beam Angle (50%-FWHM)	4.1°

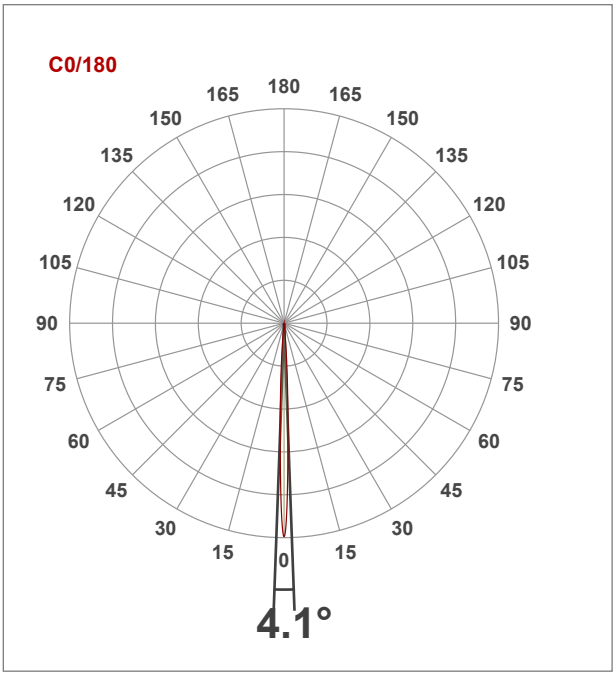
EU Ecodesign parameters

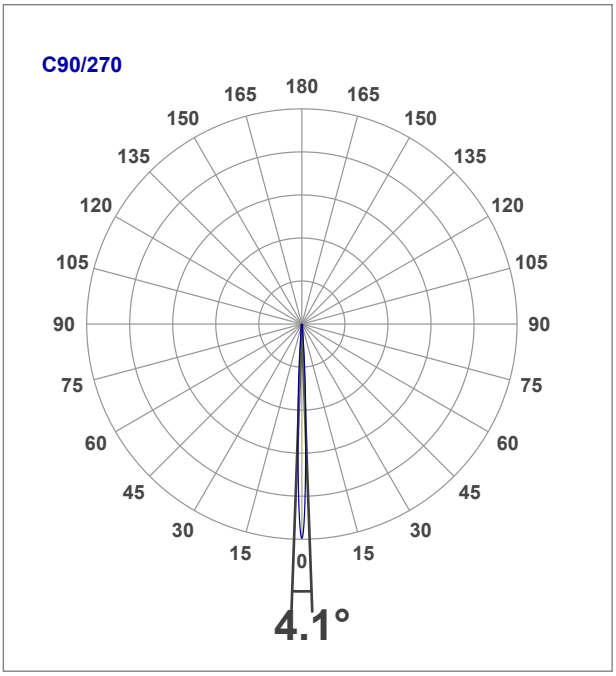
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	952.5 lm
Ecodesign Energy Class	A

Intensity Ratio

In 120° cone	100%
In 90° cone	100%

Angular Distribution





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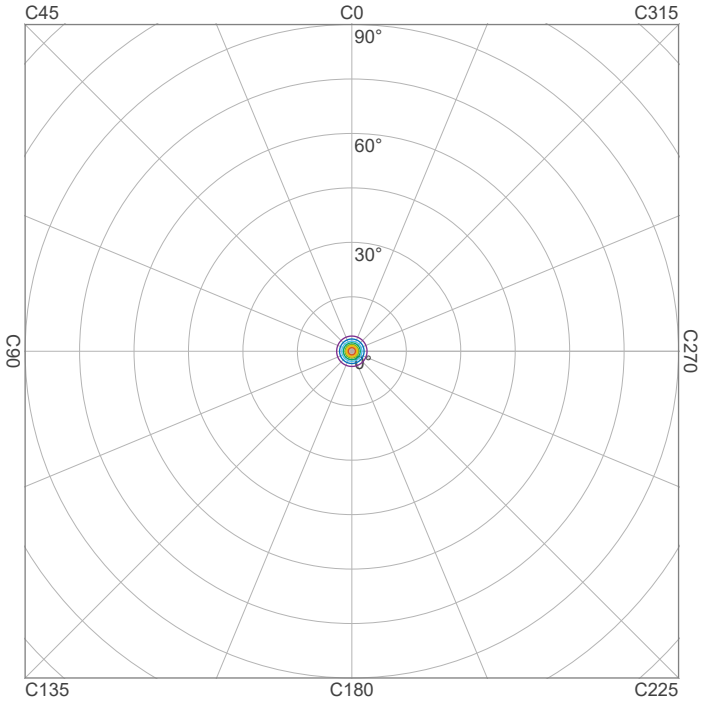
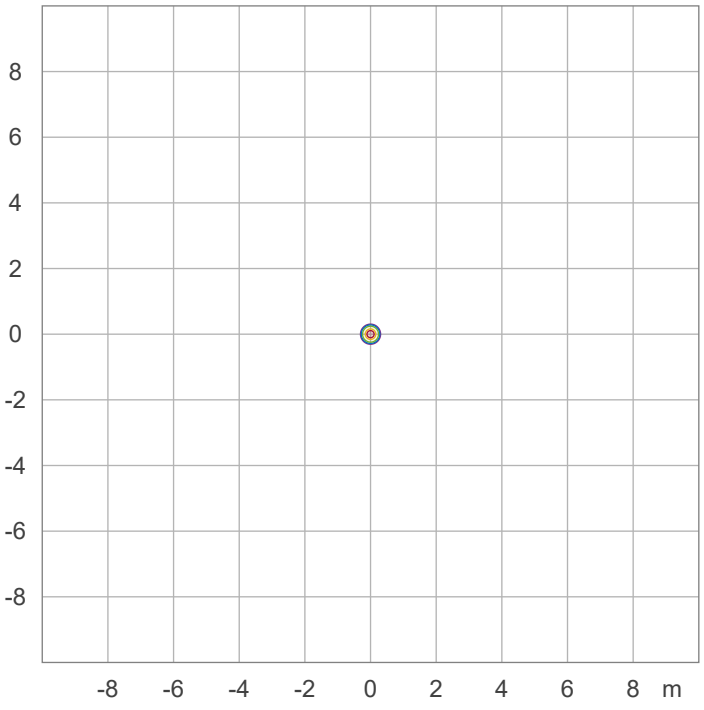
Iso-intensity Diagram (Iso-candela)



90 %	107092.2 cd
80 %	95193.1 cd
70 %	83294.0 cd
60 %	71394.8 cd
50 %	59495.7 cd
40 %	47596.6 cd
30 %	35697.4 cd
20 %	23798.3 cd
10 %	11899.1 cd

Peak intensity: 118991.4 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	6611 lx
30.0 %	3966 lx
10.0 %	1322 lx
5.0 %	661 lx
3.0 %	397 lx

Peak illuminance: 13221 lx
Mounting height: 3 m
Number of c-planes: 36

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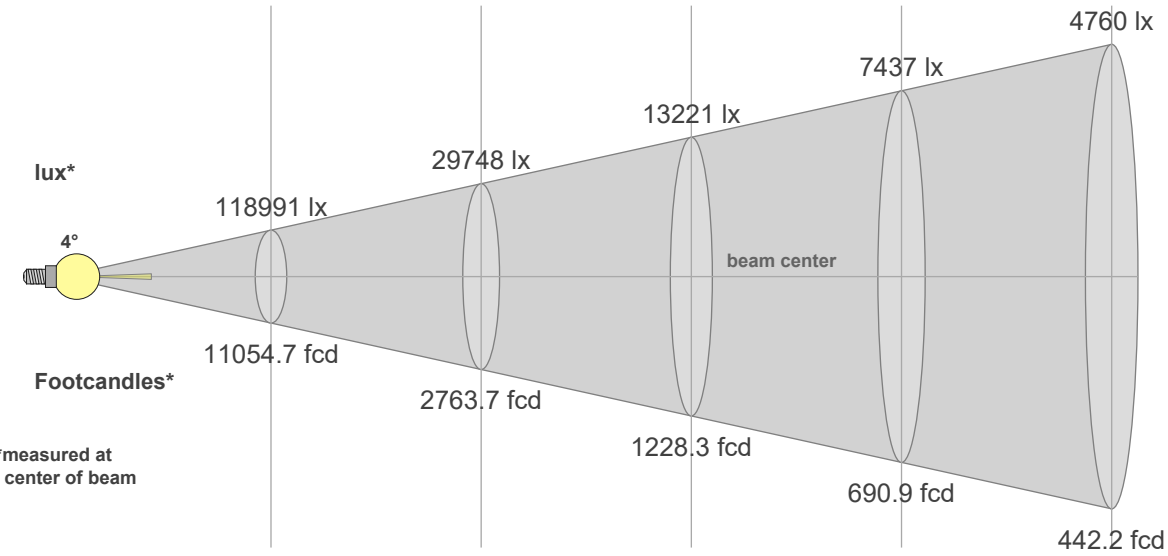
Beam details

Distance (meter)	1 m	2 m	3 m	4 m	5 m
Distance (feet)	3.3 ft	6.6 ft	9.8 ft	13.1 ft	16.4 ft



Beam width (meter)	0.1 m	0.1 m	0.2 m	0.3 m	0.4 m
Beam width (feet)	0.2 ft	0.5 ft	0.7 ft	0.9 ft	1.2 ft

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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
118991	29748	13221	7437	4760	3305	2428	1859	1469	1190	983	826	704	607	529	465	412	367	330	297	lux
11054.7	2763.7	1228.3	690.9	442.2	307.1	225.6	172.7	136.5	110.5	91.4	76.8	65.4	56.4	49.1	43.2	38.3	34.1	30.6	27.6	fc

Intensities in 0° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°	γ
119k	99k	62k	37k	19k	8k	3k	1k	1k	0k	0k	0k	0k	0k	0k	0k	0k	0k	0k	0k	cd
100%	83%	52%	31%	16%	7%	2%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	of 0°val

Intensities in 90° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°	γ
119k	99k	62k	37k	19k	8k	3k	1k	1k	0k	0k	0k	0k	0k	0k	0k	0k	0k	0k	0k	cd
100%	83%	52%	31%	16%	7%	2%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	of 0°val

Intensities in 180° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°	γ
119k	99k	62k	37k	19k	8k	3k	1k	1k	0k	0k	0k	0k	0k	0k	0k	0k	0k	0k	0k	cd
100%	83%	52%	31%	16%	7%	2%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	of 0°val

Intensities in 270° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°	γ
119k	99k	62k	37k	19k	8k	3k	1k	1k	0k	0k	0k	0k	0k	0k	0k	0k	0k	0k	0k	cd
100%	83%	52%	31%	16%	7%	2%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	of 0°val

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Power details

Input power	
Frequency of input power	60.0 Hz
Power feed to light source	0 W
RMS Input voltage feed V,RMS	117.3 V
RMS Input current feed I,RMS	0.00 A
Volt-Amp or apparent power = V,RMS*I,RMS	0.0 VA
Displacement factor of AC power feed	0.71
Power factor of AC current feed	NaN
Total harmonic distortion of the current	NaN%
Total harmonic distortion of the voltage	1.84%

Input power curve

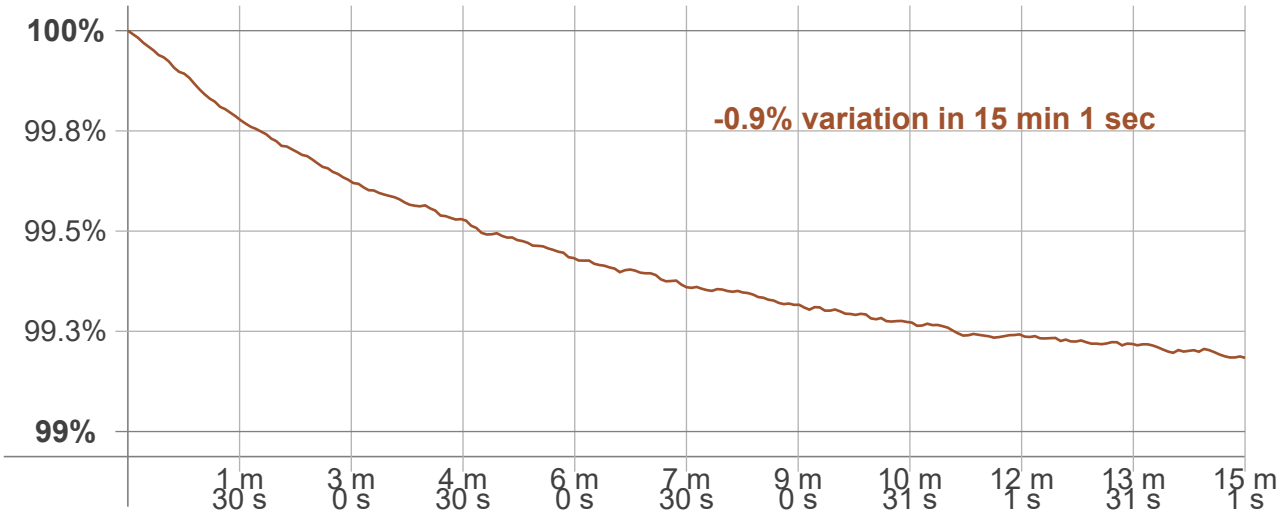
Efficiency

Radiated power efficiency	∞
Lumen efficiency	∞ lm/W

Stabilization details

Warmup Conditions		Color Temperature Change	
Stable period	15 min	CCT start	n/a
Stable change max	2%	CCT shift	n/a
Minimum time	15 min	CCT end	n/a
Warmup Result		**Output Change**	
Total warmup time	Lamp stabilized in 15 min 1 sec	Output start	960.4 lm
Warmup variation	-0.9246%	Output change	-7.9716 lm
		Output end	952.5 lm

Stabilization Curve



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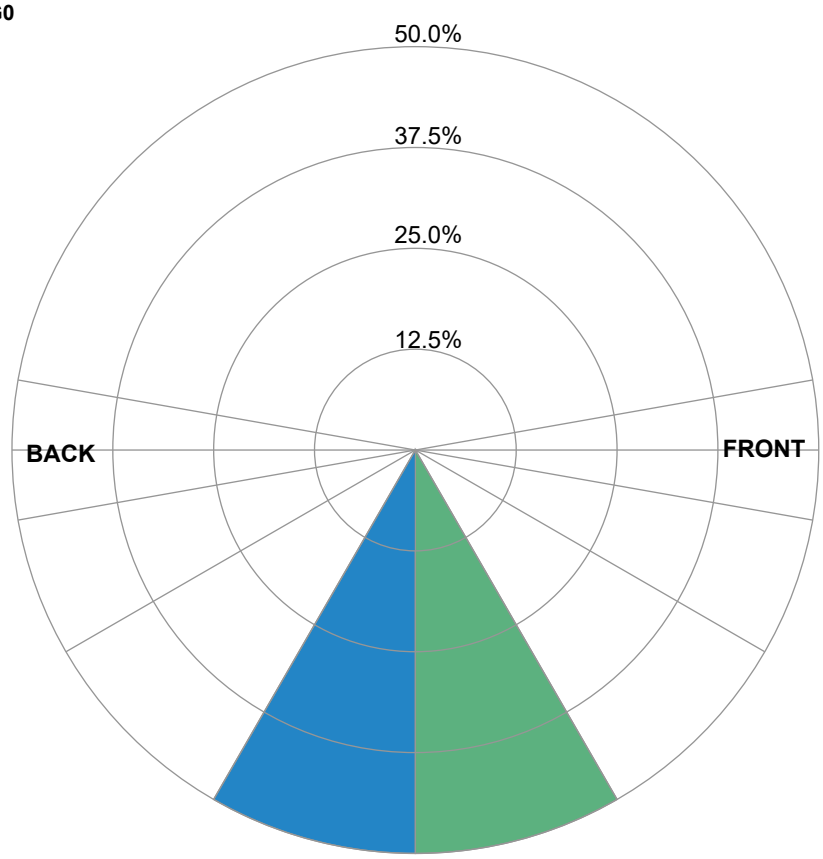
FL200-G2-XXX-RGBW3083-OM-4L-INF-XXXXX-X (B)

IESNA TM-15-07 LUMINIARE CLASSIFICATION SYSTEM FOR OUTDOOR LUMINAIRES

Forward Light			
Low (0-30°)	476	lm	50.0%
Medium (30-60°)	0	lm	0%
High (60-80°)	0	lm	0%
Very High (80-90°)	0	lm	0%
Back Light			
Low (0-30°)	476	lm	50.0%
Medium (30-60°)	0	lm	0%
High (60-80°)	0	lm	0%
Very High (80-90°)	0	lm	0%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	952.5	lm	100%

BUG RATING B1 U0 G0