Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-10L-INF-XXXXX-X (G)

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.Jun.02-9279-VO
Measurement date	2026-06-02

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	0.40°
Input Power	128.2 W

Electrical Data

Input Power	128.2 W
Input Voltage	381.4 V DC
Input Current	0.34 A
Power Factor	1.00

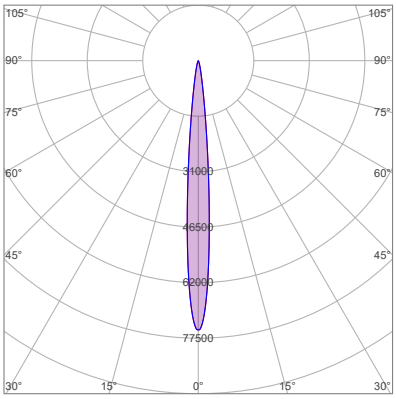
Tested Light Source

Product family	FL200-G2
Luminaire configuration	FL200-G2-XXX-RGBW3083-OM-10L-INF-XXXXX-X (G)
Manufacturer	GVA Lighting, Inc.
Size (width x length x height)	106 mm 0 mm x 430 mm

Main Light Measurement Results

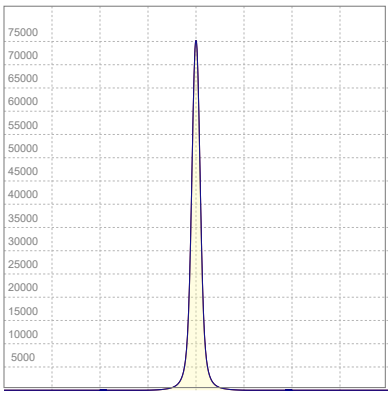
Output – Total Lumen	3130 - 0% / 100%
Efficiency	24.42 lm/W
Peak Intensity	75072
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	9.2°
Beam Angle (FWHM) | C90/270	9.2°
Field Angle (10%) | C0/180	18.8°Unit: 0-100% of peak intensity
Optical Power	6478 mW
Peak Wavelength	522 nm
Dominant Wavelength	527 nm

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

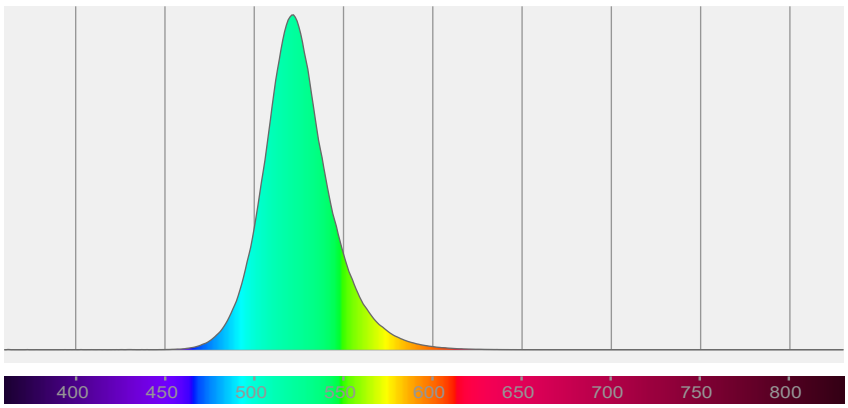


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

NaN K

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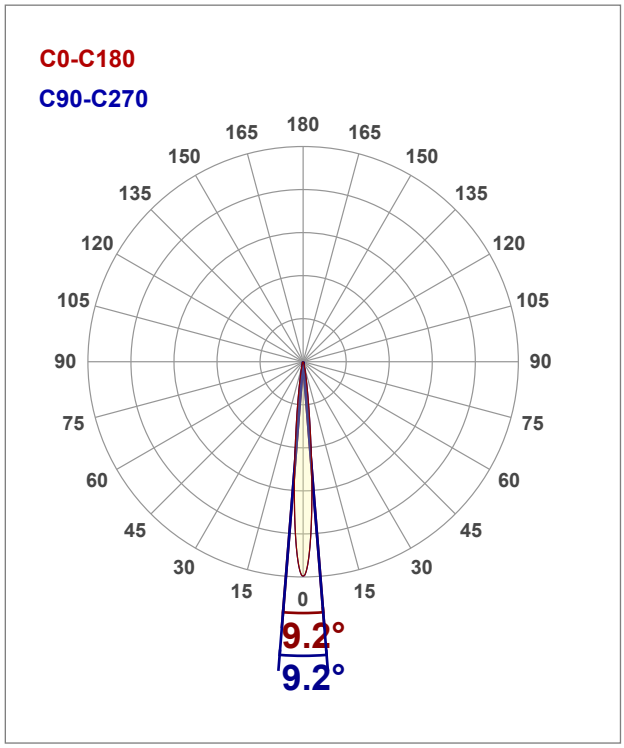
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	3130 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	75072 cd
Beam Angle (50%-FWHM)	9.2°

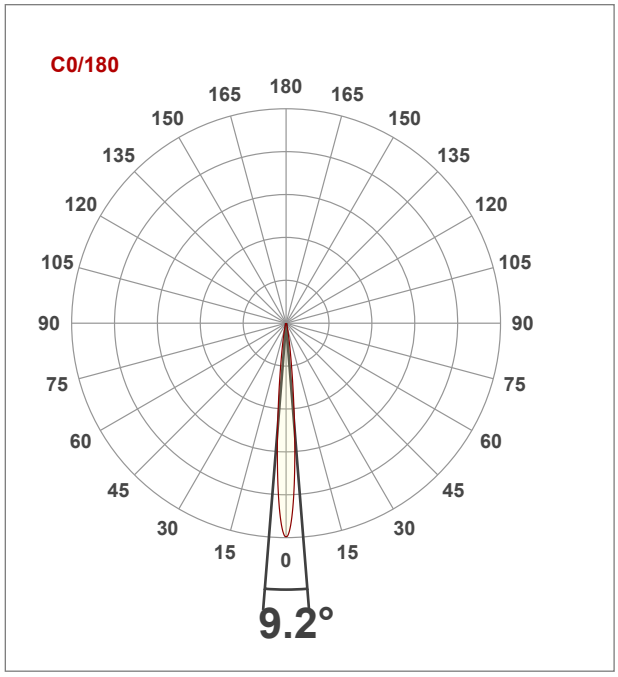
EU Ecodesign parameters

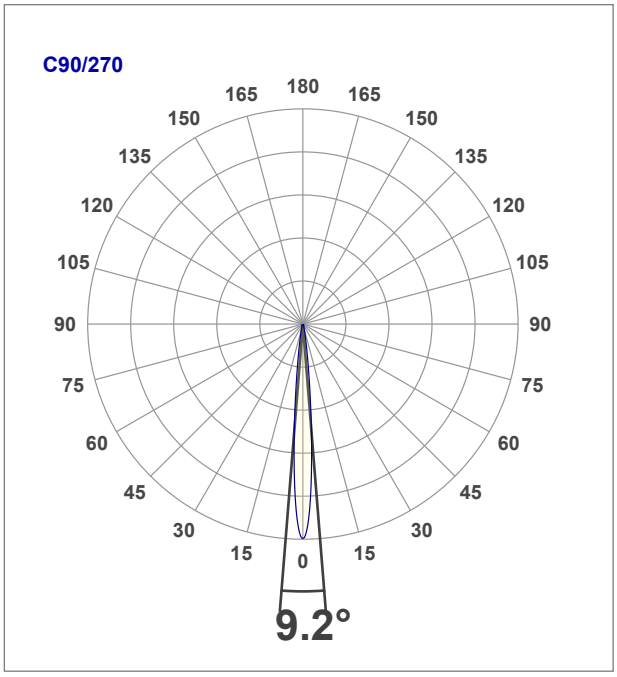
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	3128 lm
Ecodesign Energy Class	G

Intensity Ratio

In 120° cone	100%
In 90° cone	99.95%

Angular Distribution





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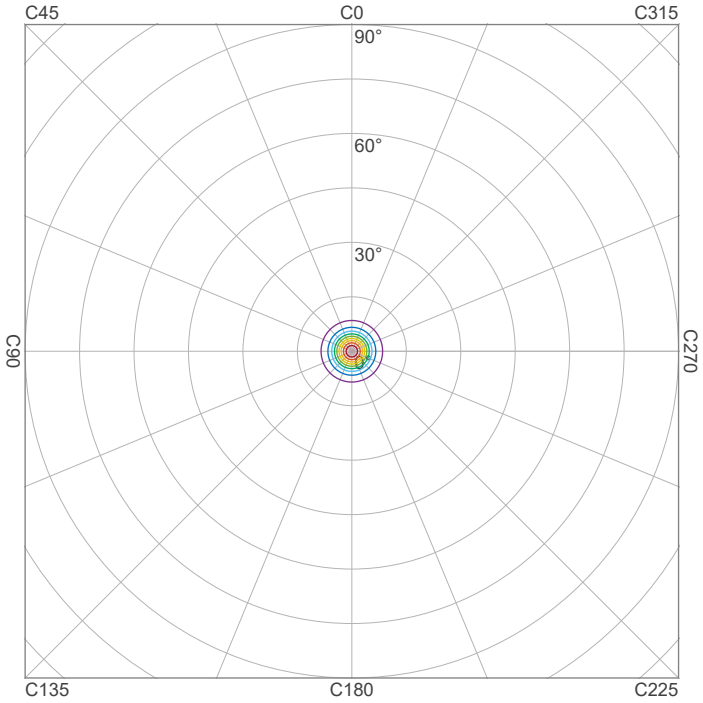
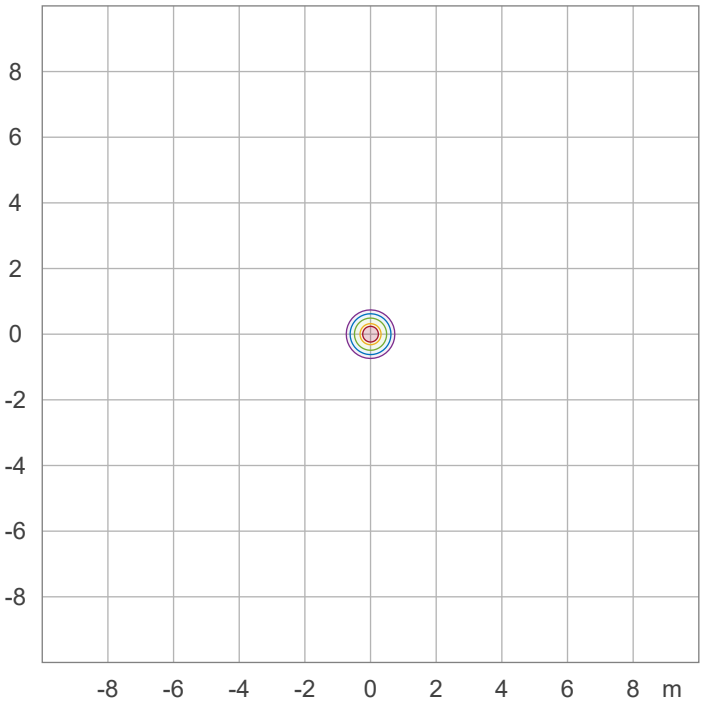
Iso-intensity Diagram (Iso-candela)



90 %	67564.8 cd
80 %	60057.6 cd
70 %	52550.4 cd
60 %	45043.2 cd
50 %	37536.0 cd
40 %	30028.8 cd
30 %	22521.6 cd
20 %	15014.4 cd
10 %	7507.2 cd

Peak intensity: 75072.0 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	4171 lx
30.0 %	2502 lx
10.0 %	834 lx
5.0 %	417 lx
3.0 %	250 lx

Peak illuminance: 8341 lx
Mounting height: 3 m
Number of c-planes: 36

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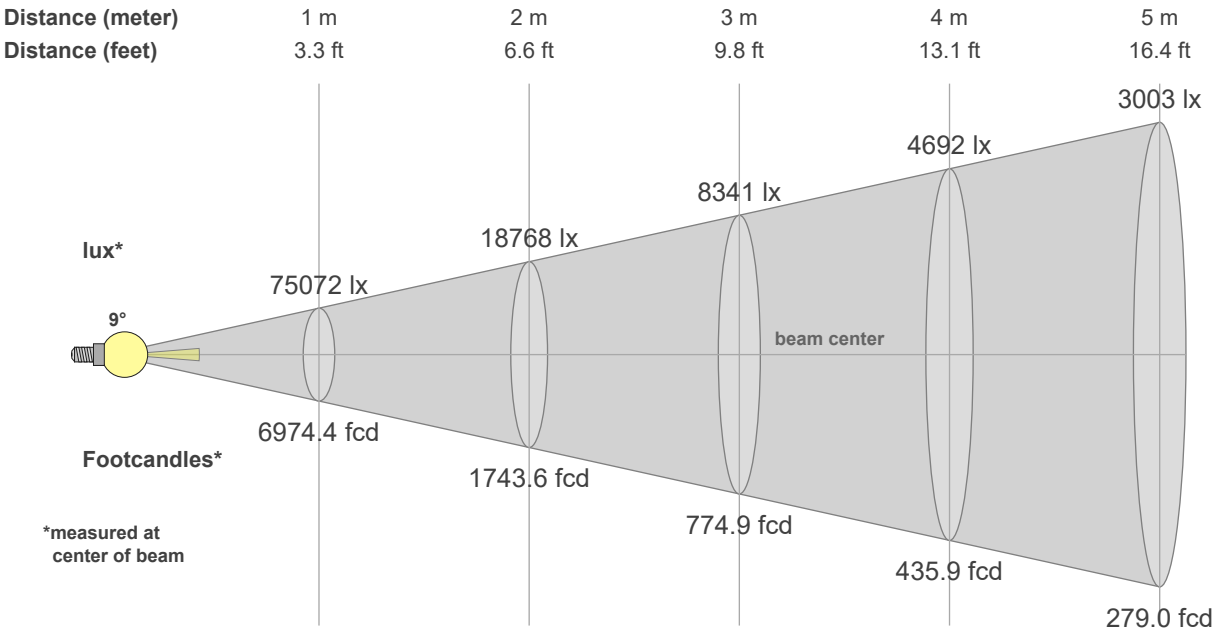
Beam details



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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
75072	18768	8341	4692	3003	2085	1532	1173	927	751	620	521	444	383	334	293	260	232	208	188	lux
6974.4	1743.6	774.9	435.9	279	193.7	142.3	109	86.1	69.7	57.6	48.4	41.3	35.6	31	27.2	24.1	21.5	19.3	17.4	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
75.1k	72.7k	65.8k	55.7k	44.1k	33.0k	23.7k	16.6k	11.7k	8.4k	6.2k	4.7k	3.7k	2.9k	2.4k	1.9k	1.6k	1.3k	1.1k	1.0k	cd
100%	97%	88%	74%	59%	44%	32%	22%	16%	11%	8%	6%	5%	4%	3%	3%	2%	2%	1%	1%	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
75.1k	72.7k	65.8k	55.7k	44.1k	33.0k	23.7k	16.6k	11.7k	8.4k	6.2k	4.7k	3.7k	2.9k	2.4k	1.9k	1.6k	1.3k	1.1k	1.0k	cd
100%	97%	88%	74%	59%	44%	32%	22%	16%	11%	8%	6%	5%	4%	3%	3%	2%	2%	1%	1%	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
75.1k	72.7k	65.8k	55.7k	44.1k	33.0k	23.7k	16.6k	11.7k	8.4k	6.2k	4.7k	3.7k	2.9k	2.4k	1.9k	1.6k	1.3k	1.1k	1.0k	cd
100%	97%	88%	74%	59%	44%	32%	22%	16%	11%	8%	6%	5%	4%	3%	3%	2%	2%	1%	1%	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
75.1k	72.7k	65.8k	55.7k	44.1k	33.0k	23.7k	16.6k	11.7k	8.4k	6.2k	4.7k	3.7k	2.9k	2.4k	1.9k	1.6k	1.3k	1.1k	1.0k	cd
100%	97%	88%	74%	59%	44%	32%	22%	16%	11%	8%	6%	5%	4%	3%	3%	2%	2%	1%	1%	of 0°val

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Power details

Input power	
Frequency of input power	0.0 Hz
Power feed to light source	128.2 W
RMS Input voltage feed V,RMS	381.4 V
RMS Input current feed I,RMS	0.34 A
Volt-Amp or apparent power = V,RMS*I,RMS	128.2 VA
Displacement factor of AC power feed	1.00
Power factor of AC current feed	1.00
Total harmonic distortion of the current	0%
Total harmonic distortion of the voltage	0%

Input power curve

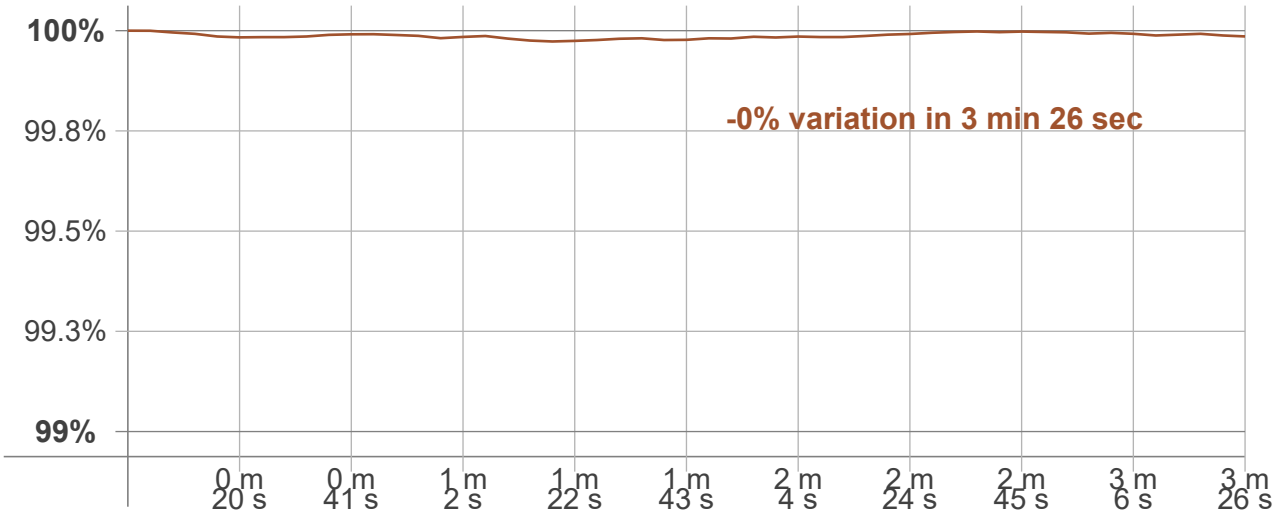
Efficiency

Radiated power efficiency	5.055
Lumen efficiency	24.42 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	Not completed	Output start	3130 lm
Warmup variation	-0.0362%	Output change	-0.3086 lm
		Output end	3130 lm

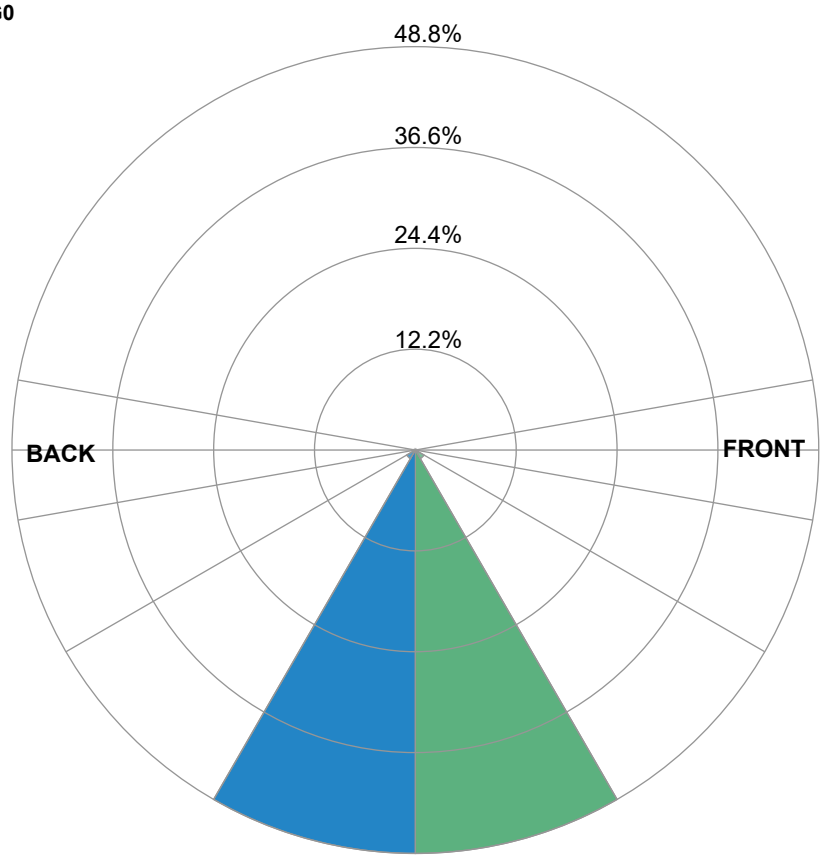
Stabilization Curve



Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-10L-INF-XXXXX-X (G)

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

Forward Light			
Low (0-30°)	1530	lm	48.8%
Medium (30-60°)	37.8	lm	1.21%
High (60-80°)	0	lm	0%
Very High (80-90°)	0	lm	0%
Back Light			
Low (0-30°)	1530	lm	48.8%
Medium (30-60°)	37.8	lm	1.21%
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	3130	lm	100%

BUG RATING B3 U0 G0