Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-10L-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.Jun.02-9282-VO
Measurement date	2026-06-02

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	0.40°
Input Power	128.6 W

Electrical Data

Input Power	128.6 W
Input Voltage	381.5 V DC
Input Current	0.34 A
Power Factor	1.00

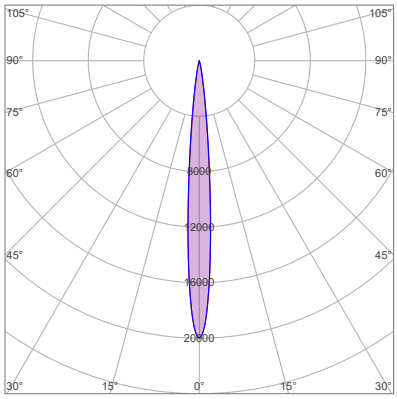
Tested Light Source

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

Main Light Measurement Results

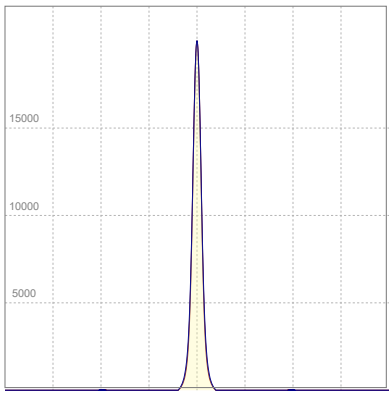
Output – Total Lumen	648.6 - 0% / 100%
Efficiency	5.045 lm/W
Peak Intensity	19974
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	9.0°
Beam Angle (FWHM) | C90/270	9.1°
Field Angle (10%) | C0/180	17.5°Unit: 0-100% of peak intensity
Optical Power	15293 mW
Peak Wavelength	454 nm
Dominant Wavelength	458 nm

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

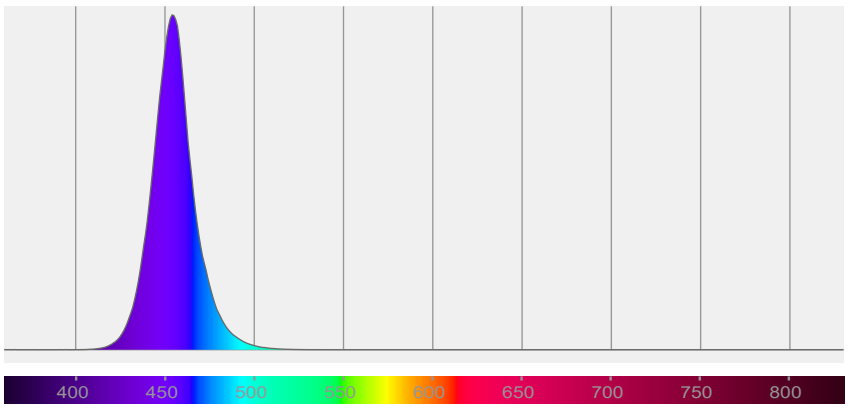


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

NaN K

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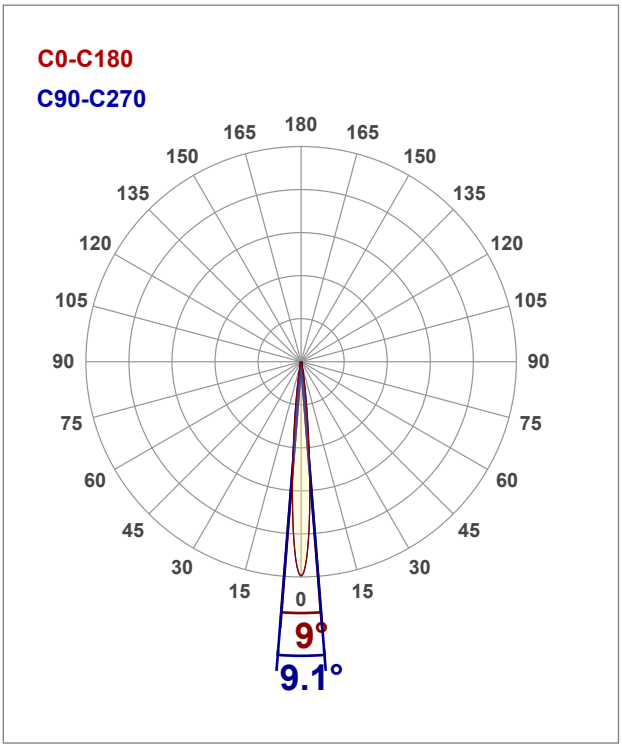
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	648.6 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	19974 cd
Beam Angle (50%-FWHM)	9.0°

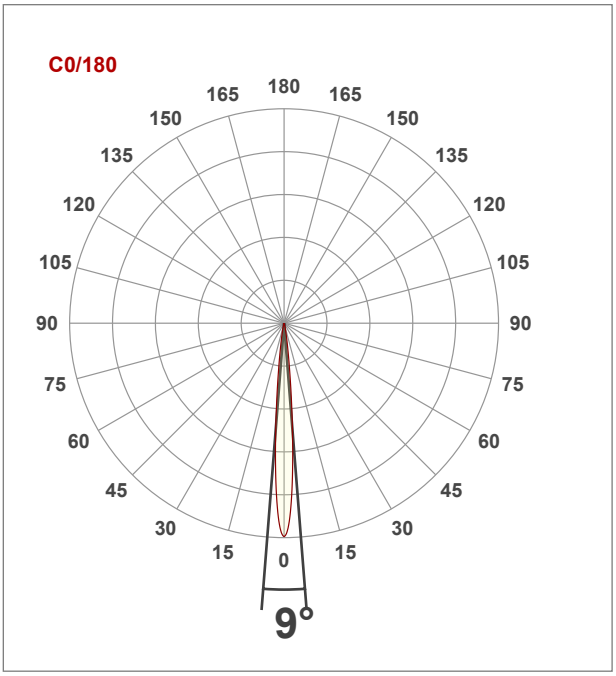
EU Ecodesign parameters

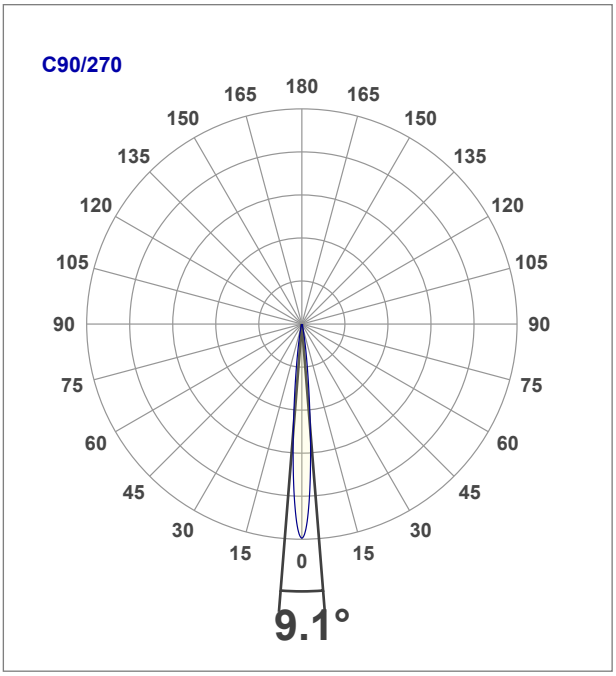
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	648.6 lm
Ecodesign Energy Class	G

Intensity Ratio

In 120° cone	100%
In 90° cone	100%

Angular Distribution





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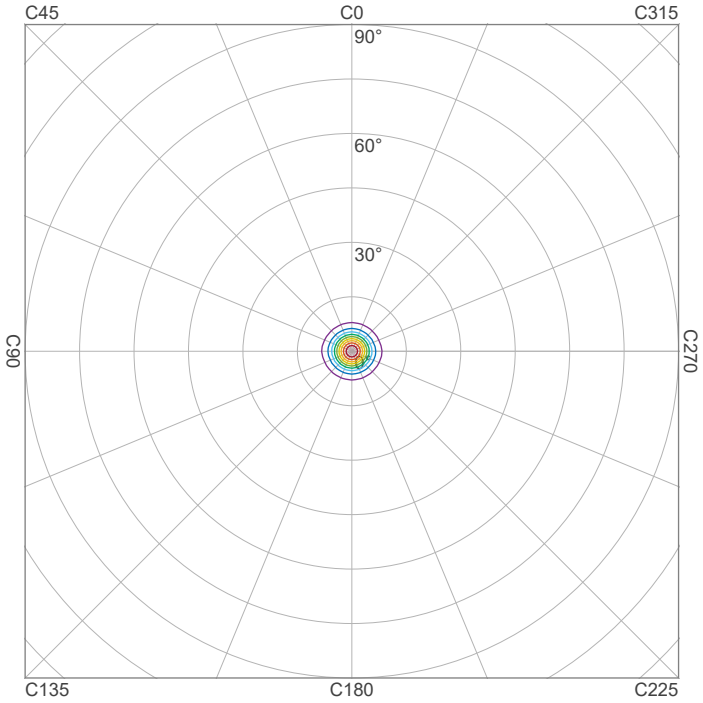
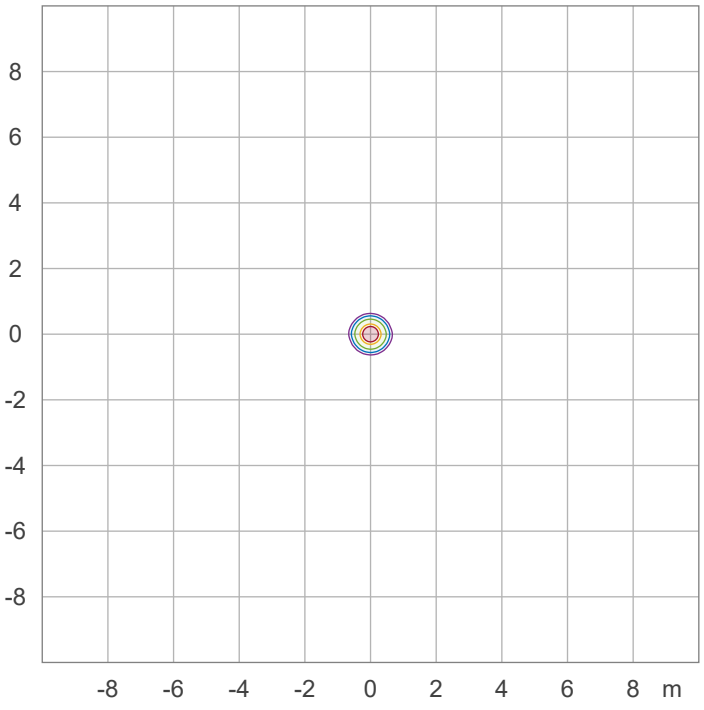
Iso-intensity Diagram (Iso-candela)



90 %	17955.0 cd
80 %	15960.0 cd
70 %	13965.0 cd
60 %	11970.0 cd
50 %	9975.0 cd
40 %	7980.0 cd
30 %	5985.0 cd
20 %	3990.0 cd
10 %	1995.0 cd

Peak intensity: 19950.0 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	1108 lx
30.0 %	665 lx
10.0 %	222 lx
5.0 %	111 lx
3.0 %	66.5 lx

Peak illuminance: 2217 lx
Mounting height: 3 m
Number of c-planes: 36

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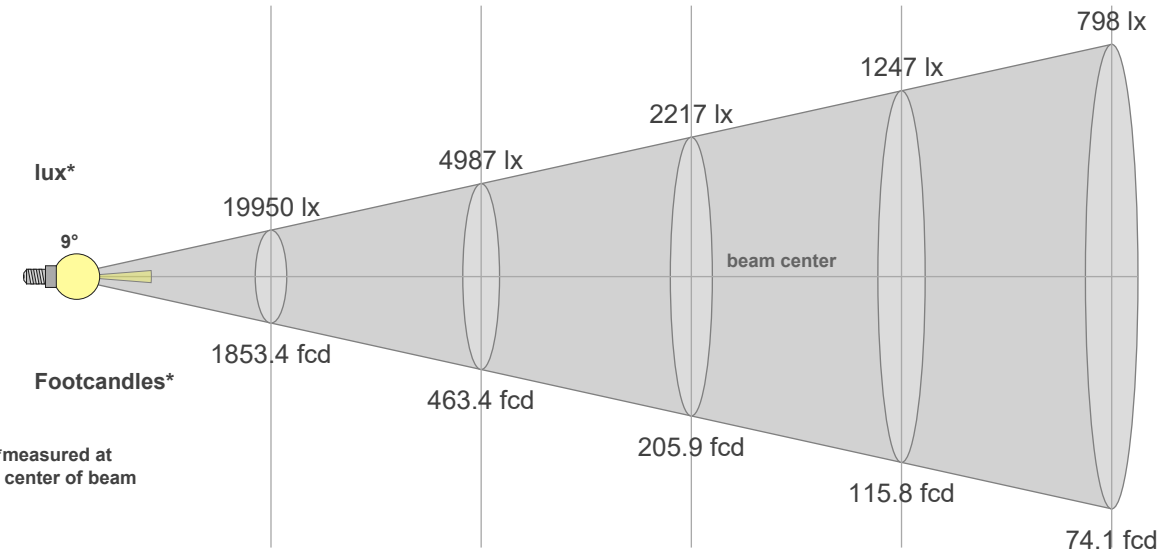
Beam details

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)	0.2 m	0.3 m	0.5 m	0.6 m	0.8 m
Beam width (feet)	0.5 ft	1 ft	1.6 ft	2.1 ft	2.6 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
19950	4987	2217	1247	798	554	407	312	246	199	165	139	118	102	89	78	69	62	55	50	lux
1853.4	463.4	205.9	115.8	74.1	51.5	37.8	29	22.9	18.5	15.3	12.9	11	9.5	8.2	7.2	6.4	5.7	5.1	4.6	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
19.9k	19.3k	17.5k	14.7k	11.6k	8.5k	5.9k	4.0k	2.7k	1.8k	1.3k	0.9k	0.6k	0.4k	0.3k	0.2k	0.1k	0.0k	0.0k	0.0k	cd
100%	97%	88%	74%	58%	42%	30%	20%	13%	9%	6%	4%	3%	2%	2%	1%	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
19.9k	19.3k	17.4k	14.8k	11.7k	8.7k	6.3k	4.4k	3.1k	2.1k	1.5k	1.1k	0.8k	0.5k	0.4k	0.2k	0.1k	0.1k	0.0k	0.0k	cd
100%	97%	87%	74%	59%	44%	31%	22%	15%	11%	8%	5%	4%	3%	2%	1%	1%	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
19.9k	19.3k	17.5k	14.7k	11.6k	8.5k	5.9k	4.0k	2.7k	1.8k	1.3k	0.9k	0.6k	0.4k	0.3k	0.2k	0.1k	0.0k	0.0k	0.0k	cd
100%	97%	88%	74%	58%	42%	30%	20%	13%	9%	6%	4%	3%	2%	2%	1%	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
19.9k	19.3k	17.4k	14.8k	11.7k	8.7k	6.3k	4.4k	3.1k	2.1k	1.5k	1.1k	0.8k	0.5k	0.4k	0.2k	0.1k	0.1k	0.0k	0.0k	cd
100%	97%	87%	74%	59%	44%	31%	22%	15%	11%	8%	5%	4%	3%	2%	1%	1%	0%	0%	0%	of 0°val

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Power details

Input power	
Frequency of input power	0.0 Hz
Power feed to light source	128.6 W
RMS Input voltage feed V,RMS	381.5 V
RMS Input current feed I,RMS	0.34 A
Volt-Amp or apparent power = V,RMS*I,RMS	128.6 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

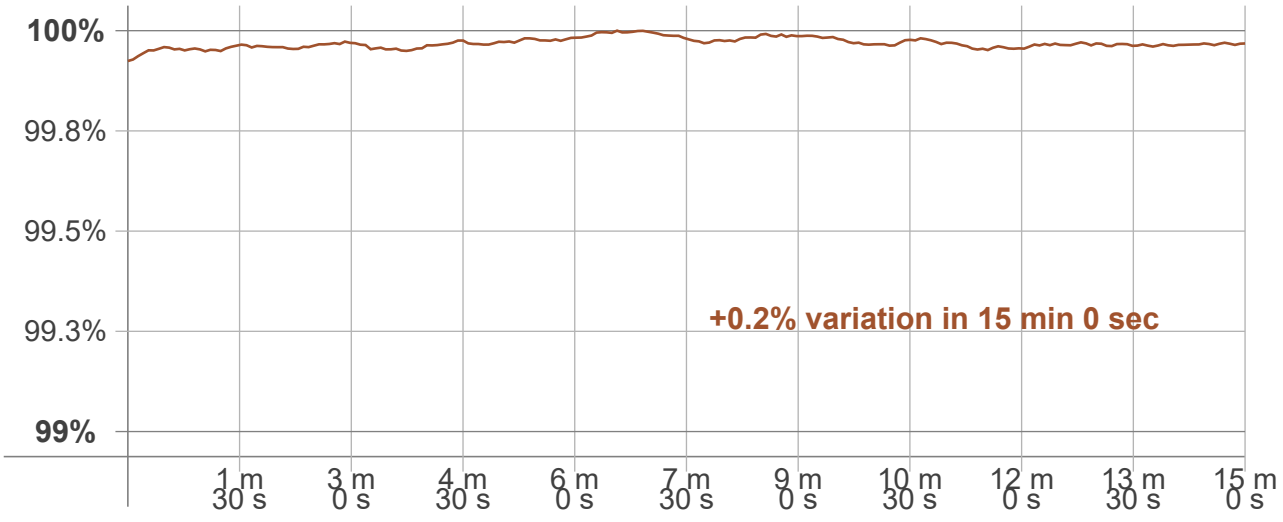
Efficiency

Radiated power efficiency	11.89
Lumen efficiency	5.045 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 0 sec	Output start	648.2 lm
Warmup variation	0.1641%	Output change	0.3752 lm
		Output end	648.6 lm

Stabilization Curve



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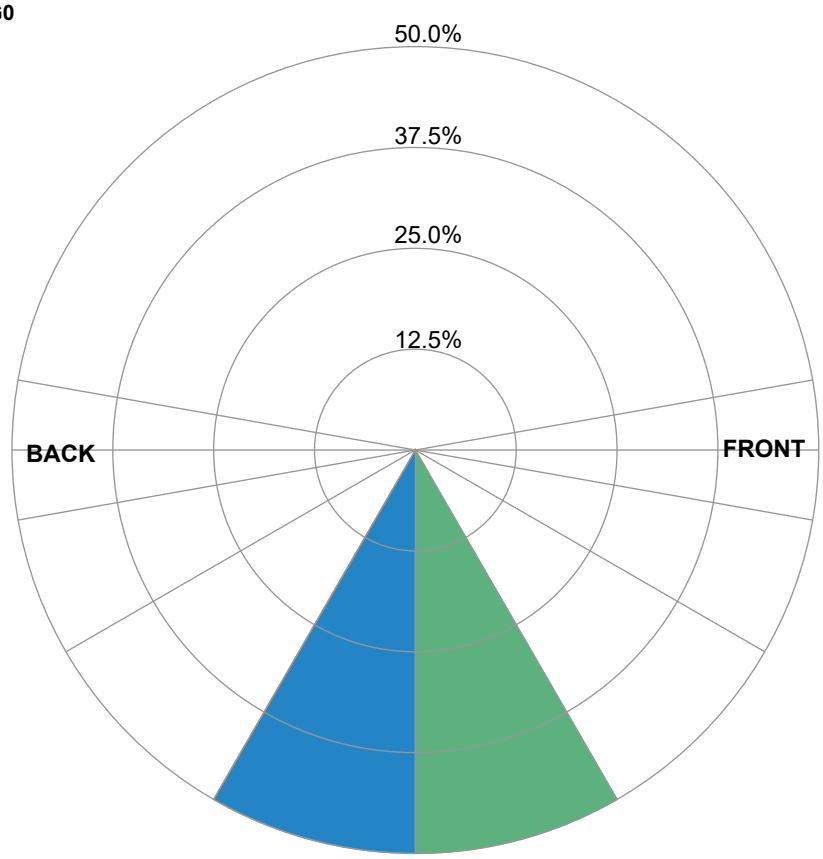
FL200-G2-XXX-RGBW3083-OM-10L-INF-XXXXX-X (B)

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

Forward Light			
Low (0-30°)	324	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°)	324	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	648.6	lm	100%

BUG RATING B1 U0 G0