Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-7L-INF-XXXXX-X (W)

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.17-7370-VO
Measurement date	2026-03-17

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	0.40°
Input Power	0 W

Electrical Data

Input Power	0 W
Input Voltage	117.6 V DC
Input Current	0.00 A
Power Factor	NaN

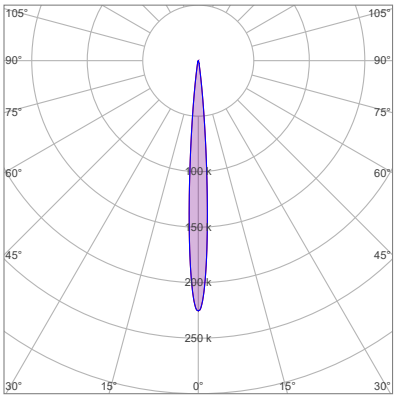
Tested Light Source

Product family	FL200-G2
Luminaire configuration	FL200-G2-XXX-RGBW3083-OM-7L-INF-XXXXX-X (W)
Manufacturer	GVA Lighting, Inc.
Size (width x length x height)	106 mm 0 mm x 430 mm

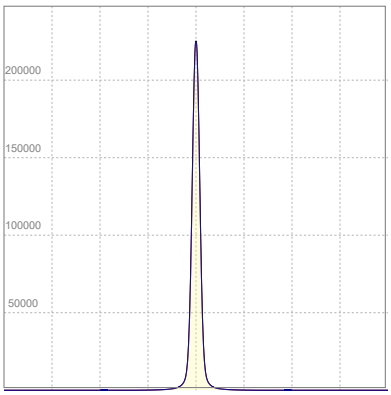
Main Light Measurement Results

Output – Total Lumen	6516 - 0% / 100%
Efficiency	∞ lm/W
Peak Intensity	225181
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	8.1°
Beam Angle (FWHM) | C90/270	8.1°
Field Angle (10%) | C0/180	15.1°Unit: 0-100% of peak intensity
Optical Power	19501 mW
Peak Wavelength	599 nm
Dominant Wavelength	582 nm

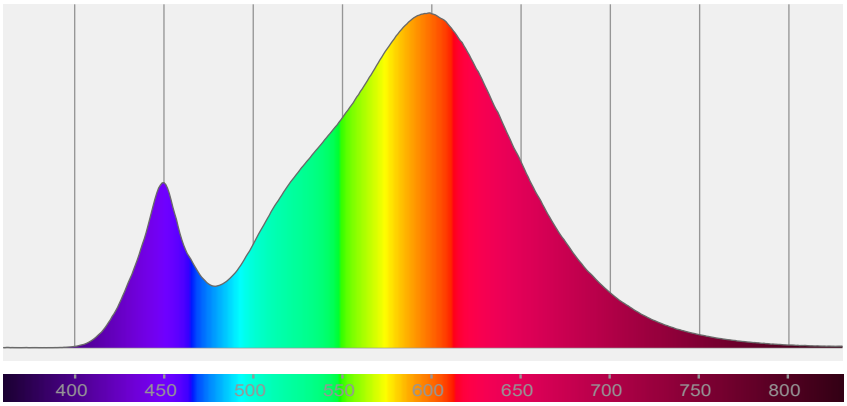
Polar Light Distribution Diagram
Unit: 0-100% of peak intensity



Linear distribution Diagram



Spectral Distribution



Color Temperature

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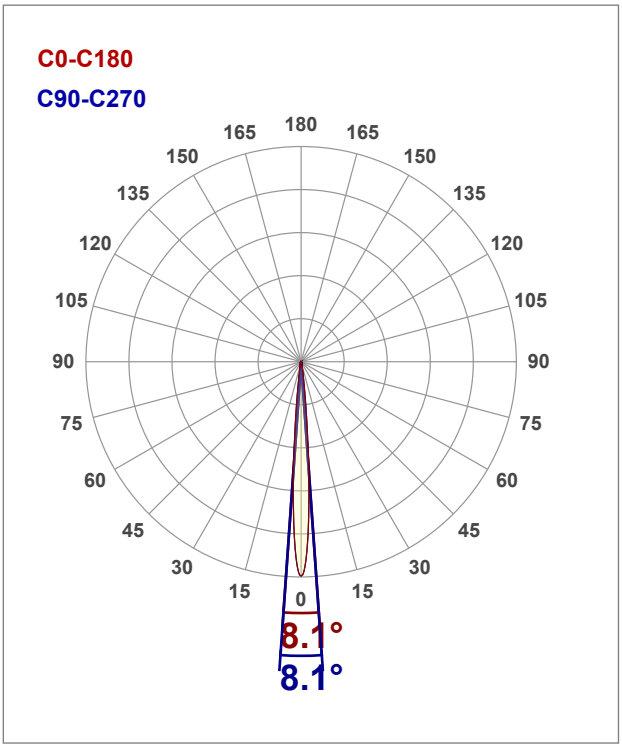
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	6516 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	225181 cd
Beam Angle (50%-FWHM)	8.1°

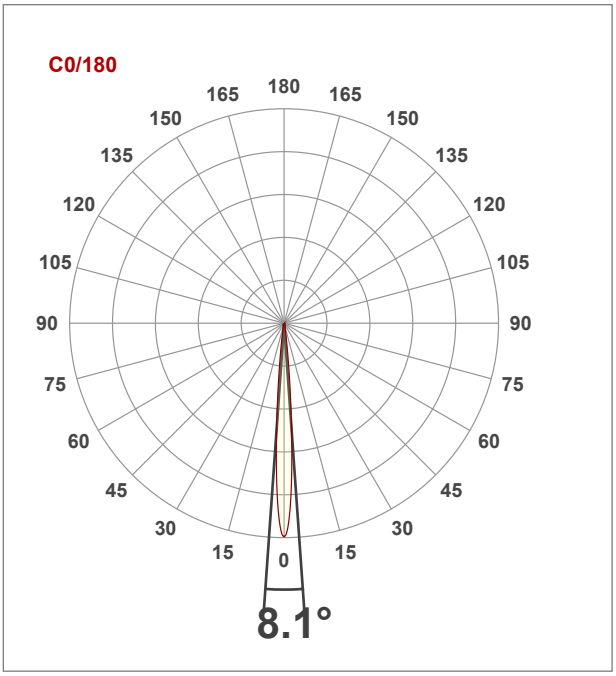
EU Ecodesign parameters

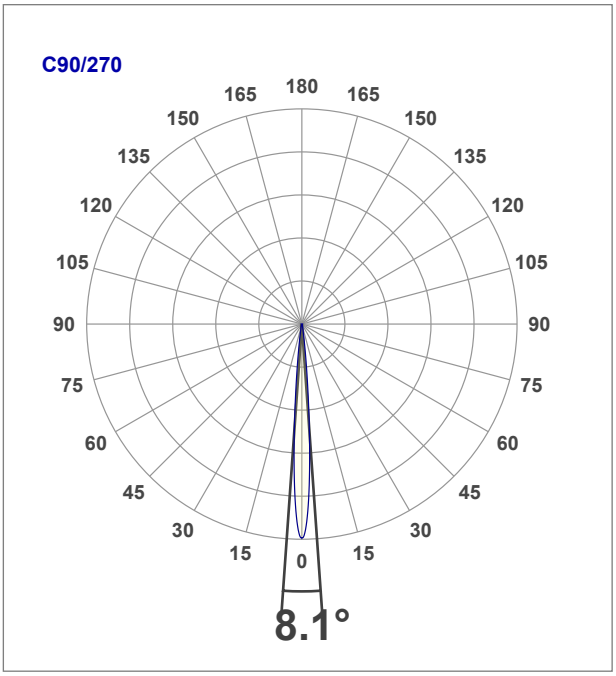
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	6477 lm
Ecodesign Energy Class	A

Intensity Ratio

In 120° cone	100%
In 90° cone	99.4%

Angular Distribution





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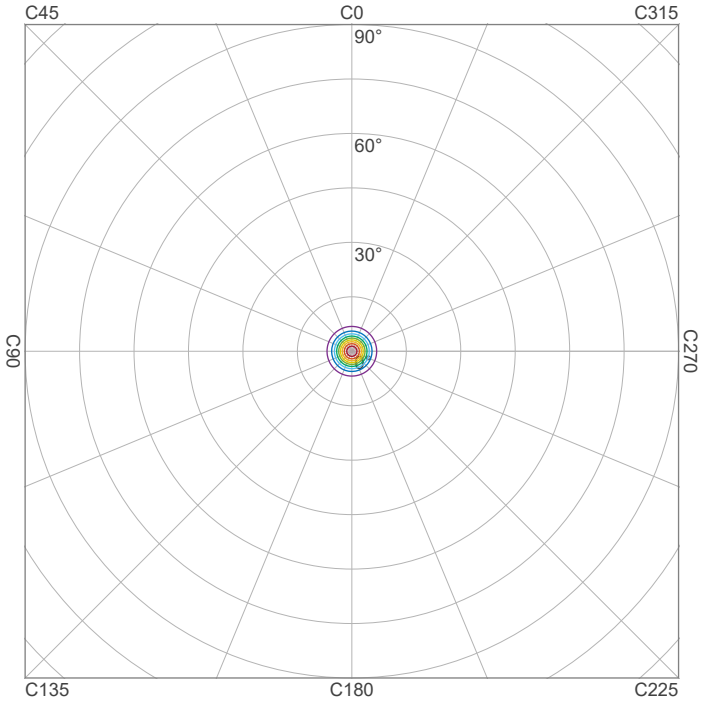
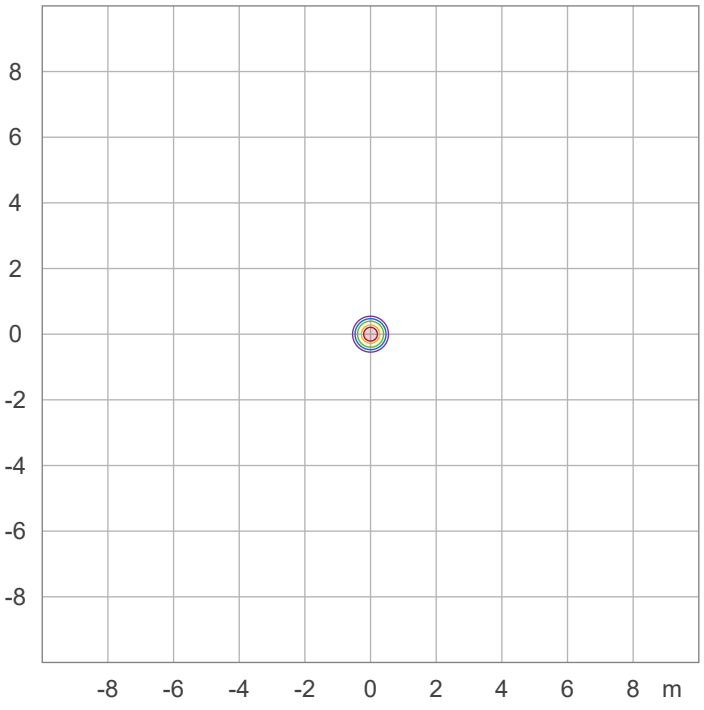
Iso-intensity Diagram (Iso-candela)



90 %	202663.2 cd
80 %	180145.1 cd
70 %	157626.9 cd
60 %	135108.8 cd
50 %	112590.7 cd
40 %	90072.5 cd
30 %	67554.4 cd
20 %	45036.3 cd
10 %	22518.1 cd

Peak intensity: 225181.3 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	12510 lx
30.0 %	7506 lx
10.0 %	2502 lx
5.0 %	1251 lx
3.0 %	751 lx

Peak illuminance: 25020 lx
Mounting height: 3 m
Number of c-planes: 36

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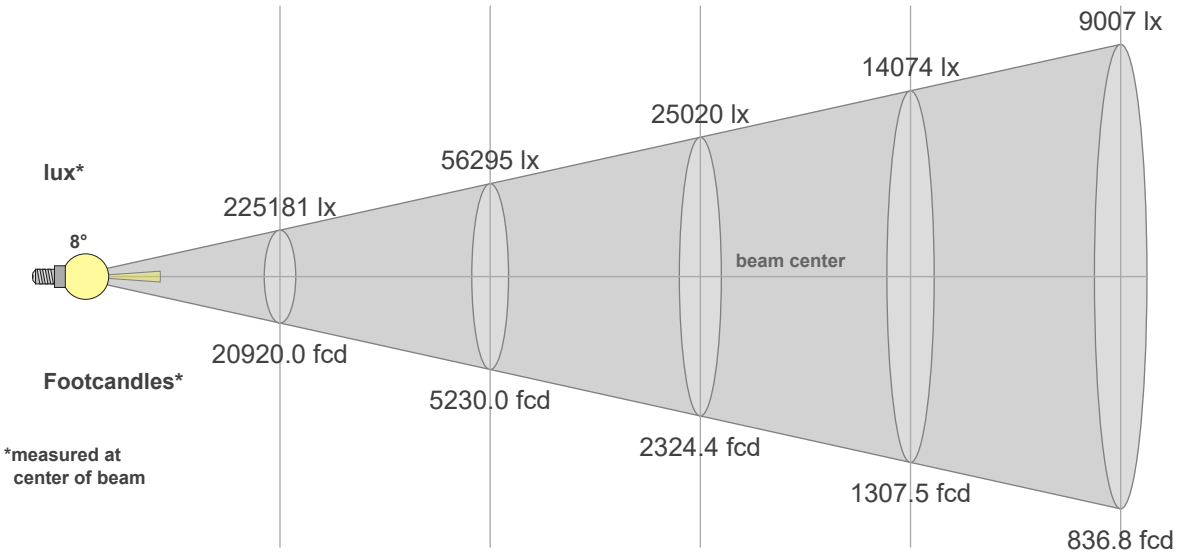
Beam details

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	0.3 m	0.4 m	0.6 m	0.7 m
Beam width (feet)	0.5 ft	0.9 ft	1.4 ft	1.8 ft	2.3 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
225181	56295	25020	14074	9007	6255	4596	3518	2780	2252	1861	1564	1332	1149	1001	880	779	695	624	563	lux
20920	5230	2324.4	1307.5	836.8	581.1	426.9	326.9	258.3	209.2	172.9	145.3	123.8	106.7	93	81.7	72.4	64.6	58	52.3	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
225k	216k	191k	155k	114k	77k	48k	30k	18k	11k	8k	6k	5k	4k	3k	3k	2k	2k	2k	1k	cd
100%	96%	85%	69%	51%	34%	22%	13%	8%	5%	3%	3%	2%	2%	1%	1%	1%	1%	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
225k	216k	191k	155k	114k	77k	48k	30k	18k	11k	8k	6k	5k	4k	3k	3k	2k	2k	2k	1k	cd
100%	96%	85%	69%	51%	34%	22%	13%	8%	5%	3%	3%	2%	2%	1%	1%	1%	1%	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
225k	216k	191k	155k	114k	77k	48k	30k	18k	11k	8k	6k	5k	4k	3k	3k	2k	2k	2k	1k	cd
100%	96%	85%	69%	51%	34%	22%	13%	8%	5%	3%	3%	2%	2%	1%	1%	1%	1%	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
225k	216k	191k	155k	114k	77k	48k	30k	18k	11k	8k	6k	5k	4k	3k	3k	2k	2k	2k	1k	cd
100%	96%	85%	69%	51%	34%	22%	13%	8%	5%	3%	3%	2%	2%	1%	1%	1%	1%	1%	1%	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	117.6 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	1.74%

Input power curve

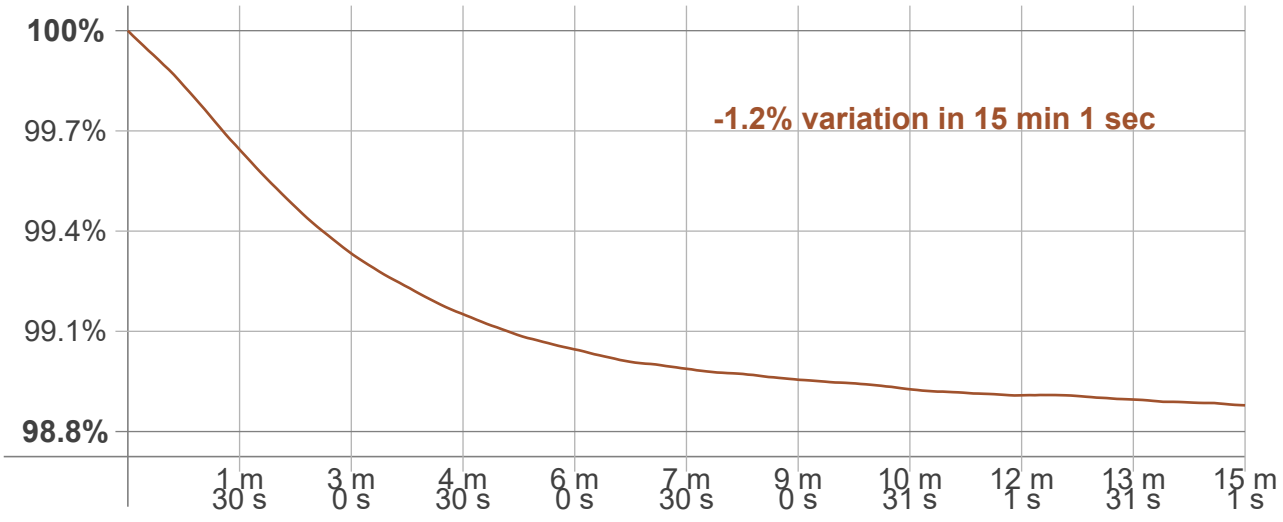
Efficiency

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	6591 lm
Warmup variation	-1.1836%	Output change	-75.186 lm
		Output end	6516 lm

Stabilization Curve



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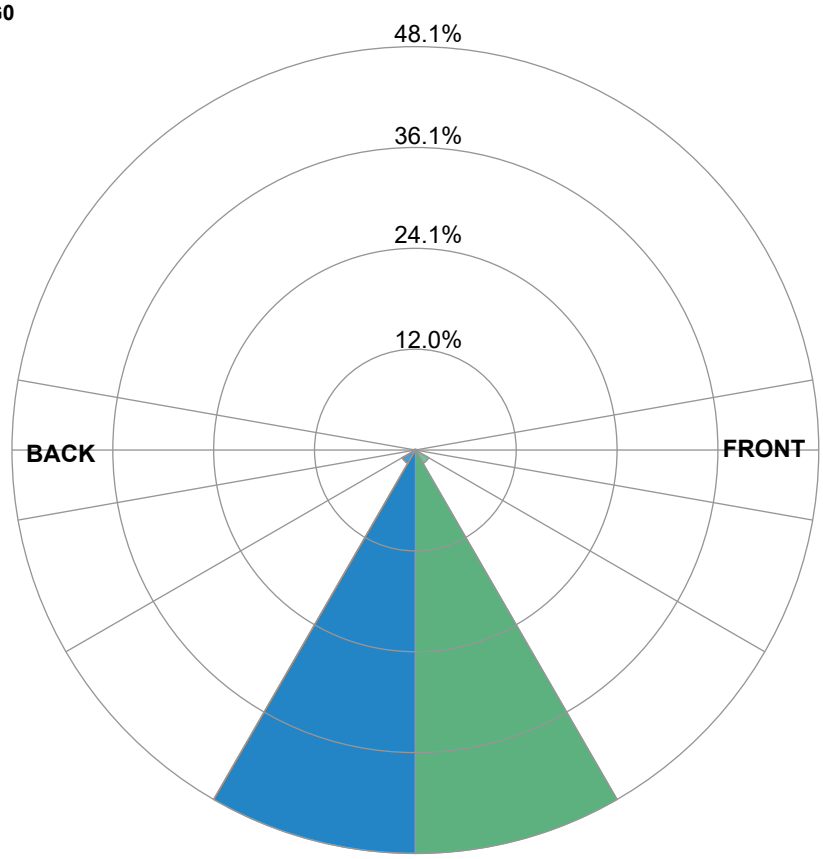
FL200-G2-XXX-RGBW3083-OM-7L-INF-XXXXX-X (W)

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

Forward Light			
Low (0-30°)	3140	lm	48.1%
Medium (30-60°)	121	lm	1.85%
High (60-80°)	0.0945	lm	0.00145%
Very High (80-90°)	0	lm	0%
Back Light			
Low (0-30°)	3140	lm	48.1%
Medium (30-60°)	121	lm	1.85%
High (60-80°)	0.0945	lm	0.00145%
Very High (80-90°)	0	lm	0%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	6516	lm	100%

BUG RATING B4 U0 G0