Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-20L-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.Jun.03-9305-VO
Measurement date	2026-06-03

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	1.00°
Input Power	128.9 W

Electrical Data

Input Power	128.9 W
Input Voltage	381.5 V DC
Input Current	0.34 A
Power Factor	1.00

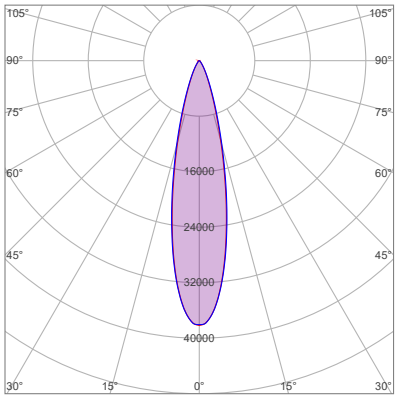
Tested Light Source

Product family	FL200-G2
Luminaire configuration	FL200-G2-XXX-RGBW3083-OM-20L-INF-XXXXX-X (W)
Manufacturer	GVA Lighting, Inc.
Size (width x length x height)	0 mm 0 mm x 10 mm

Main Light Measurement Results

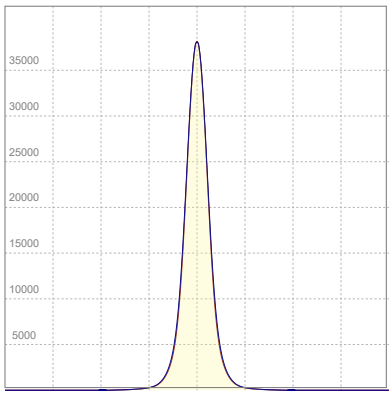
Output – Total Lumen	8551 - 0% / 100%
Efficiency	66.31 lm/W
Peak Intensity	38190
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	23.0°
Beam Angle (FWHM) | C90/270	23.5°
Field Angle (10%) | C0/180	45.3°Unit: 0-100% of peak intensity
Optical Power	25574 mW
Peak Wavelength	602 nm
Dominant Wavelength	584 nm

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

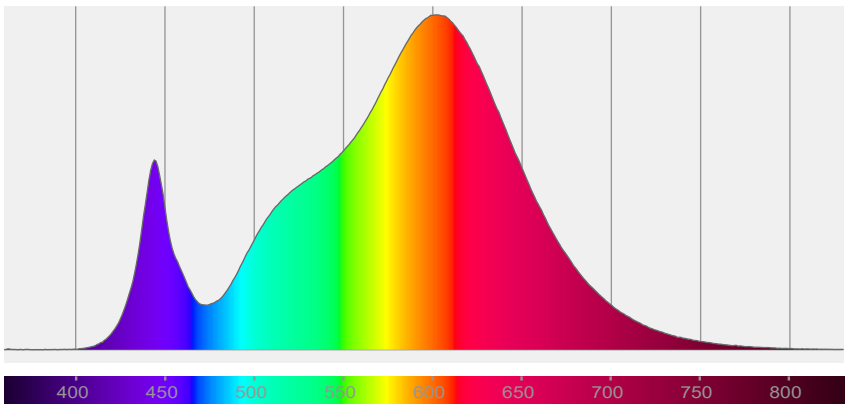


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

3016 K

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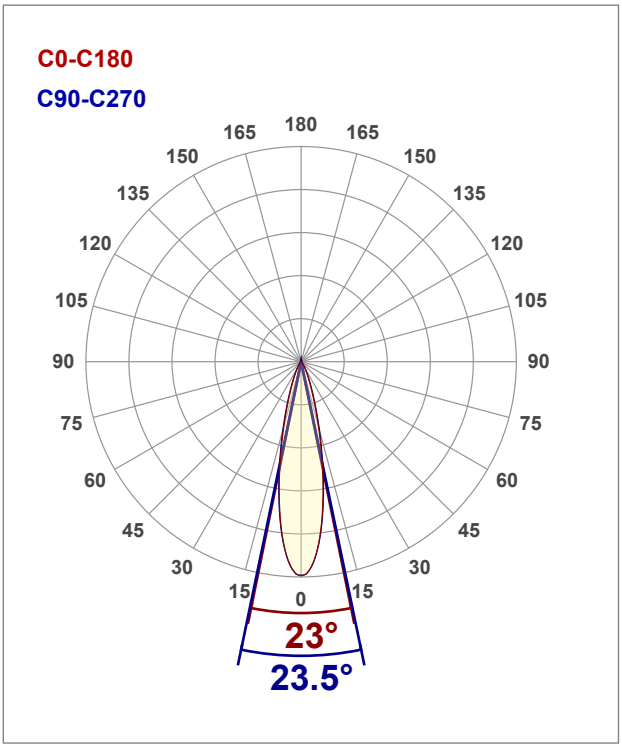
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	8551 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	38190 cd
Beam Angle (50%-FWHM)	23.2°

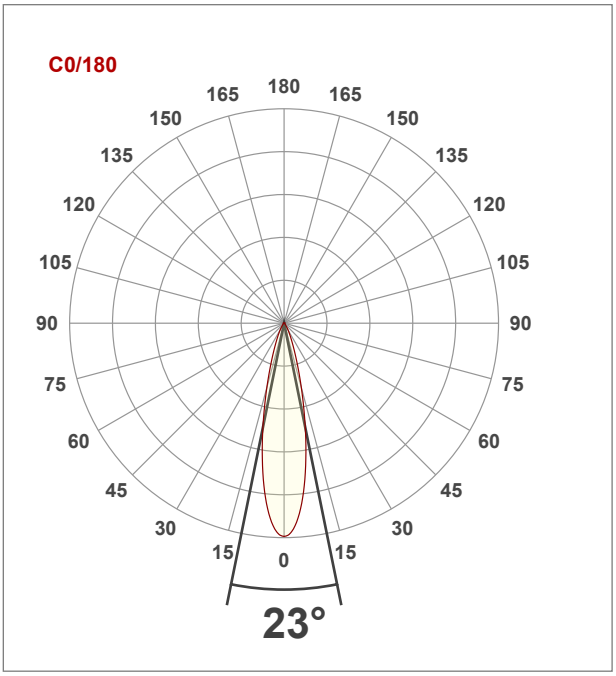
EU Ecodesign parameters

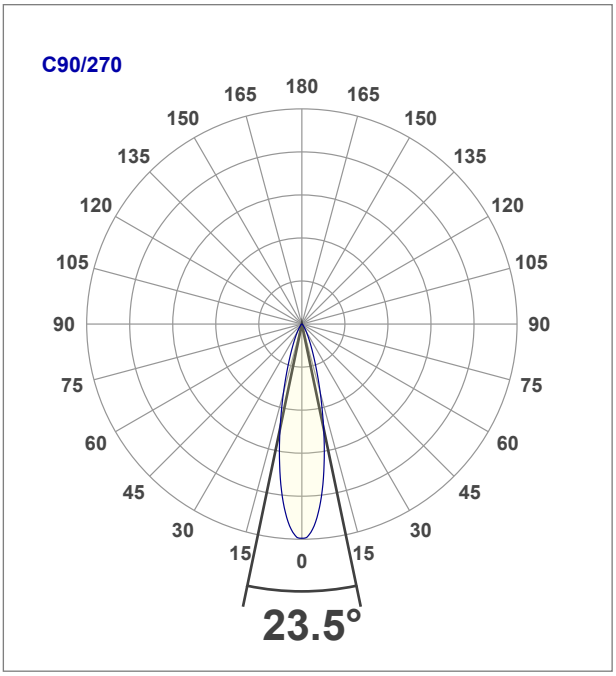
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	8257 lm
Ecodesign Energy Class	G

Intensity Ratio

In 120° cone	98.97%
In 90° cone	96.56%

Angular Distribution





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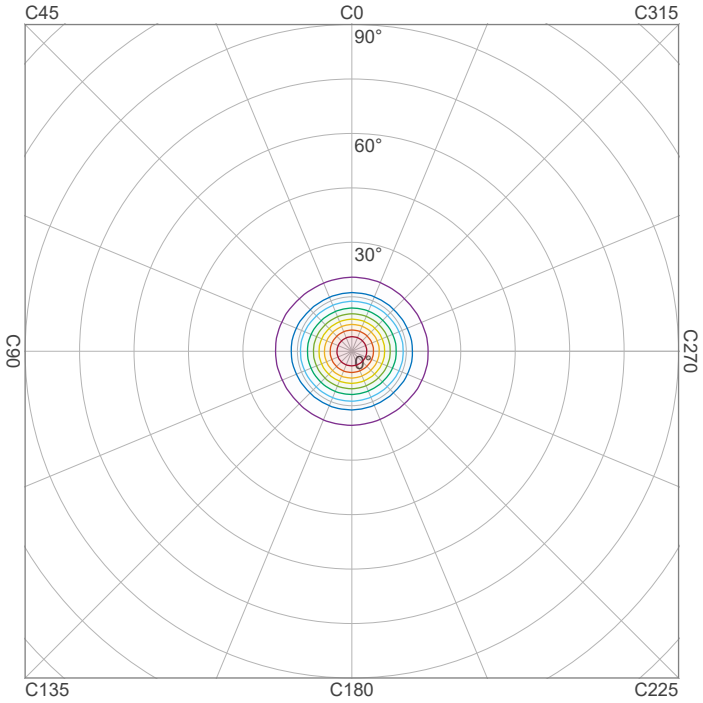
FL200-G2-XXX-RGBW3083-OM-20L-INF-XXXXX-X (W)

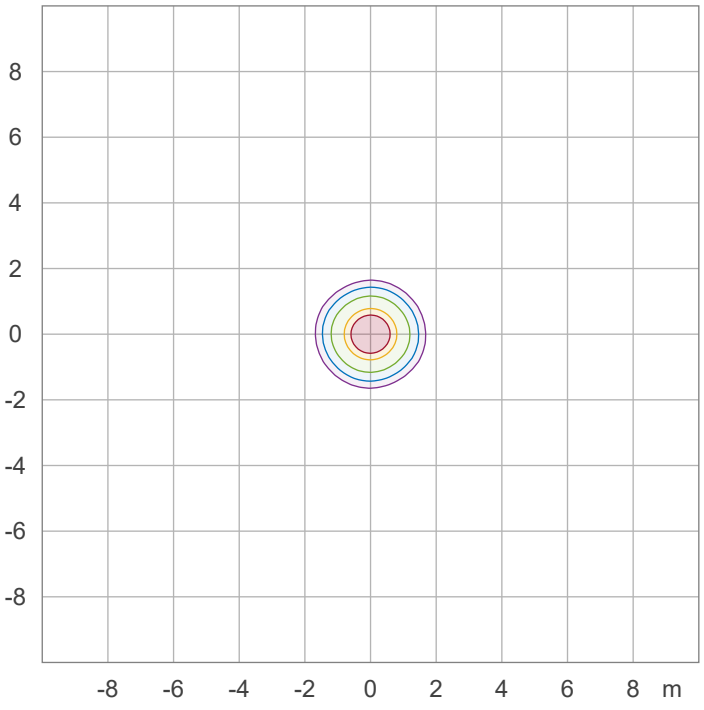
Iso-intensity Diagram (Iso-candela)



90 %	34316.3 cd
80 %	30503.4 cd
70 %	26690.5 cd
60 %	22877.5 cd
50 %	19064.6 cd
40 %	15251.7 cd
30 %	11438.8 cd
20 %	7625.8 cd
10 %	3812.9 cd

Peak intensity: 38129.2 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	2118 lx
30.0 %	1271 lx
10.0 %	424 lx
5.0 %	212 lx
3.0 %	127 lx

Peak illuminance: 4237 lx
Mounting height: 3 m
Number of c-planes: 36

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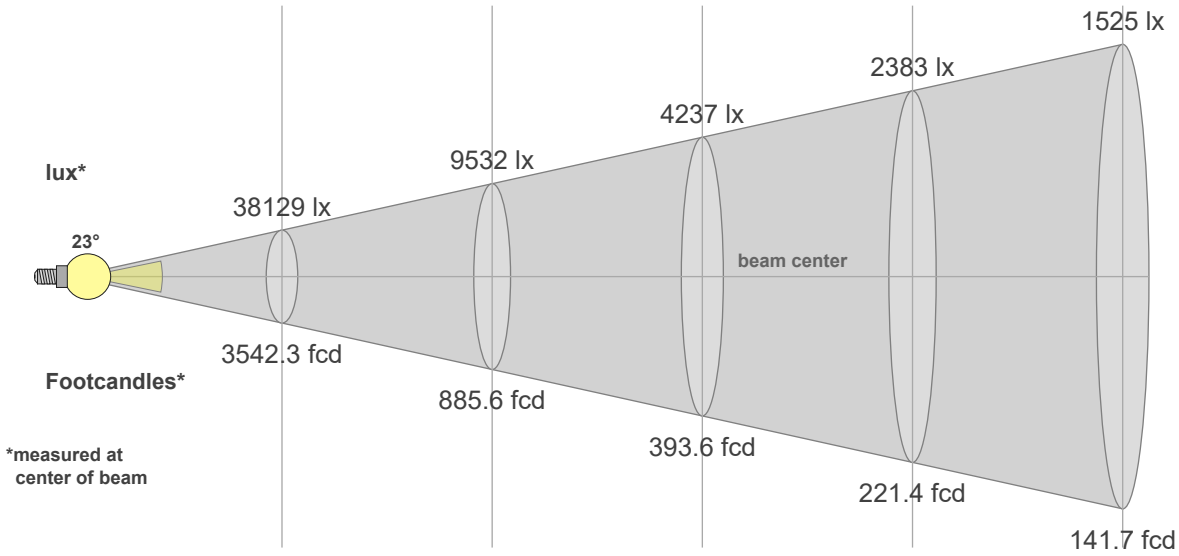
Beam details

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)	0.4 m	0.8 m	1.2 m	1.6 m	2 m
Beam width (feet)	1.3 ft	2.7 ft	4 ft	5.4 ft	6.7 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
38129	9532	4237	2383	1525	1059	778	596	471	381	315	265	226	195	169	149	132	118	106	95	lux
3542.3	885.6	393.6	221.4	141.7	98.4	72.3	55.3	43.7	35.4	29.3	24.6	21	18.1	15.7	13.8	12.3	10.9	9.8	8.9	fc

Intensities in 0° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°	γ
38.1k	37.4k	35.1k	31.6k	27.2k	22.5k	17.9k	13.7k	10.3k	7.6k	5.6k	4.2k	3.2k	2.4k	1.9k	1.4k	1.1k	0.9k	0.7k	0.5k	cd
100%	98%	92%	83%	71%	59%	47%	36%	27%	20%	15%	11%	8%	6%	5%	4%	3%	2%	2%	1%	of 0°val

Intensities in 90° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°	γ
38.1k	37.4k	35.2k	31.8k	27.5k	23.0k	18.5k	14.4k	11.0k	8.2k	6.1k	4.6k	3.5k	2.6k	2.0k	1.6k	1.2k	0.9k	0.7k	0.6k	cd
100%	98%	92%	83%	72%	60%	49%	38%	29%	22%	16%	12%	9%	7%	5%	4%	3%	2%	2%	1%	of 0°val

Intensities in 180° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°	γ
38.1k	37.4k	35.1k	31.6k	27.2k	22.5k	17.9k	13.7k	10.3k	7.6k	5.6k	4.2k	3.2k	2.4k	1.9k	1.4k	1.1k	0.9k	0.7k	0.5k	cd
100%	98%	92%	83%	71%	59%	47%	36%	27%	20%	15%	11%	8%	6%	5%	4%	3%	2%	2%	1%	of 0°val

Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°	γ
38.1k	37.4k	35.2k	31.8k	27.5k	23.0k	18.5k	14.4k	11.0k	8.2k	6.1k	4.6k	3.5k	2.6k	2.0k	1.6k	1.2k	0.9k	0.7k	0.6k	cd
100%	98%	92%	83%	72%	60%	49%	38%	29%	22%	16%	12%	9%	7%	5%	4%	3%	2%	2%	1%	of 0°val

Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-20L-INF-XXXXX-X (W)

Power details

Input power	
Frequency of input power	0.0 Hz
Power feed to light source	128.9 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	128.9 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

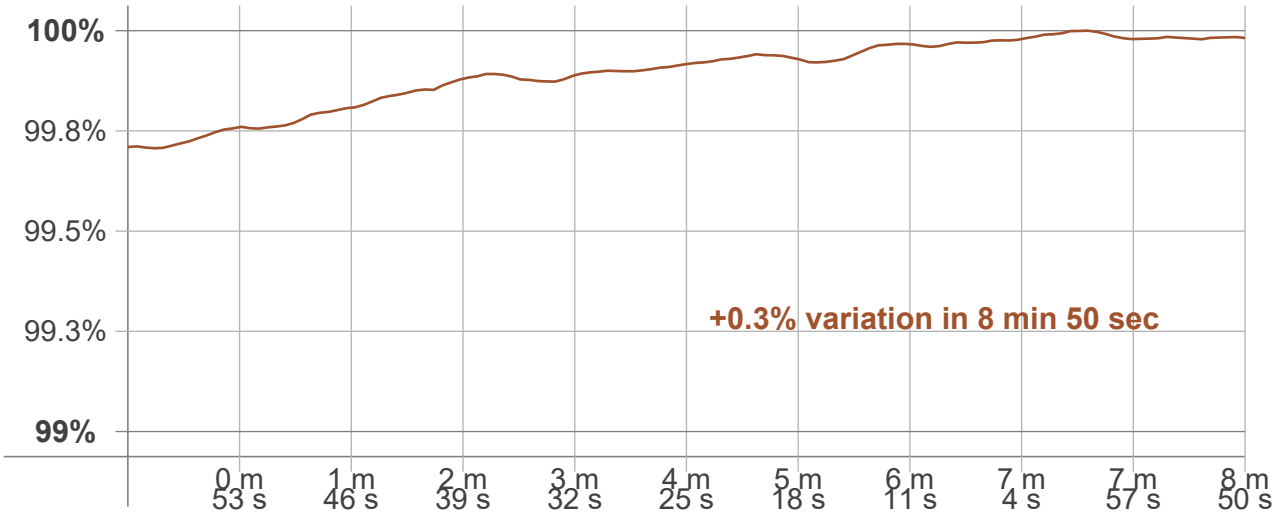
Efficiency

Radiated power efficiency	19.83
Lumen efficiency	66.31 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	8528 lm
Warmup variation	0.3167%	Output change	22.35 lm
		Output end	8551 lm

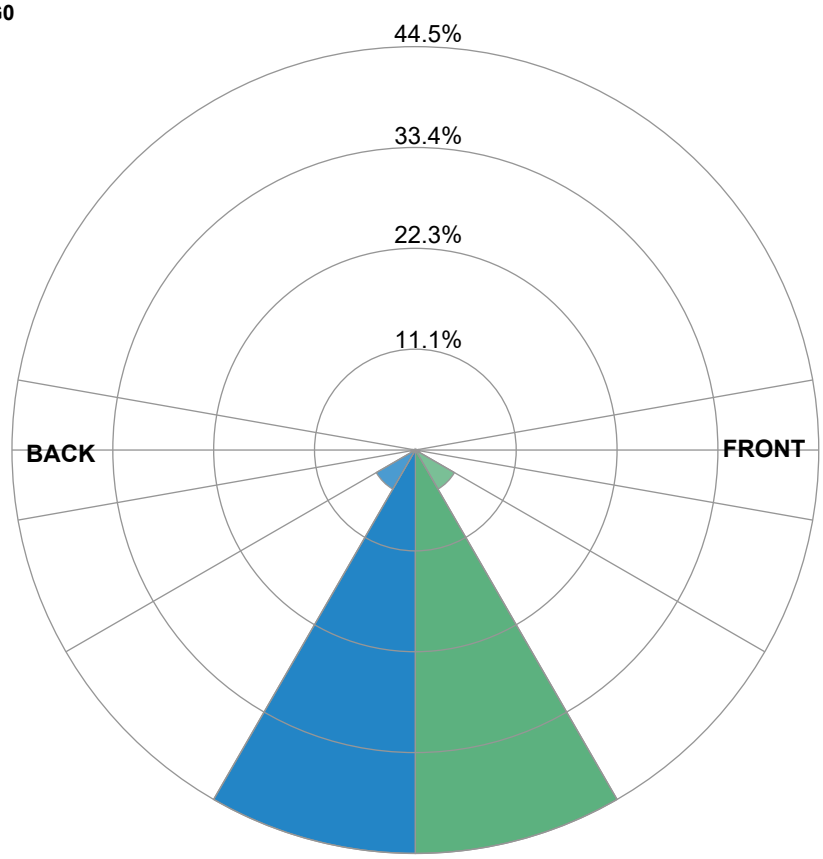
Stabilization Curve



Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-20L-INF-XXXXX-X (W)

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

Forward Light			
Low (0-30°)	3810	lm	44.5%
Medium (30-60°)	425	lm	4.98%
High (60-80°)	43.5	lm	0.509%
Very High (80-90°)	0.942	lm	0.0110%
Back Light			
Low (0-30°)	3810	lm	44.5%
Medium (30-60°)	425	lm	4.98%
High (60-80°)	43.5	lm	0.509%
Very High (80-90°)	0.942	lm	0.0110%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	8551	lm	100%

BUG RATING B4 U0 G0