Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-1040-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.May.26-8918-VO
Measurement date	2026-05-26

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	0.50°
Input Power	128.9 W

Electrical Data

Input Power	128.9 W
Input Voltage	381.4 V DC
Input Current	0.34 A
Power Factor	1.00

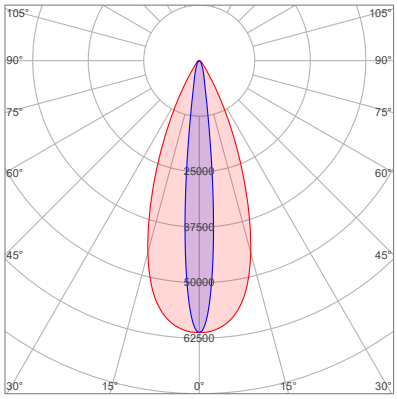
Tested Light Source

Product family	FL200-G2
Luminaire configuration	FL200-G2-XXX-RGBW3083-OM-1040-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

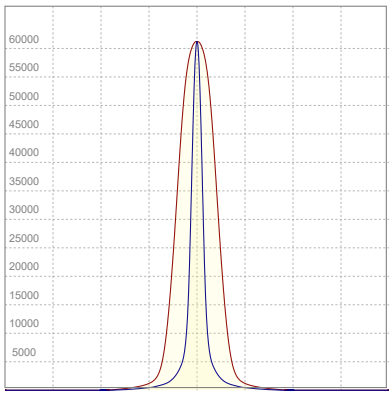
Output – Total Lumen	12493 - 0% / 100%
Efficiency	96.91 lm/W
Peak Intensity	61288
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	39.8°
Beam Angle (FWHM) | C90/270	11.6°
Field Angle (10%) | C0/180	63.0°Unit: 0-100% of peak intensity
Optical Power	37338 mW
Peak Wavelength	601 nm
Dominant Wavelength	584 nm

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

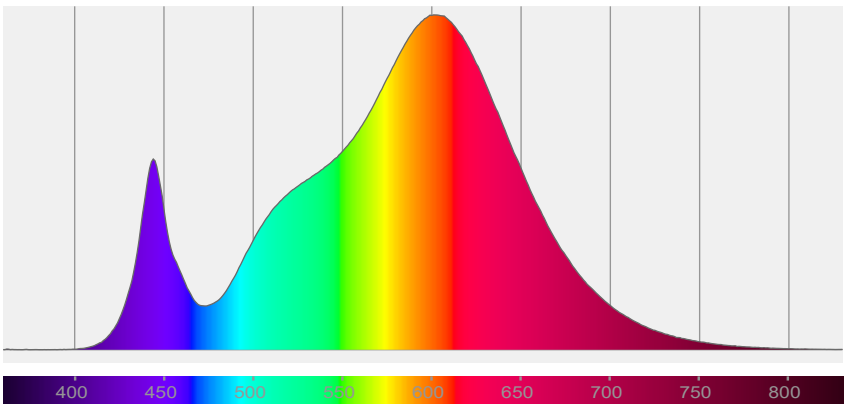


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

3010 K

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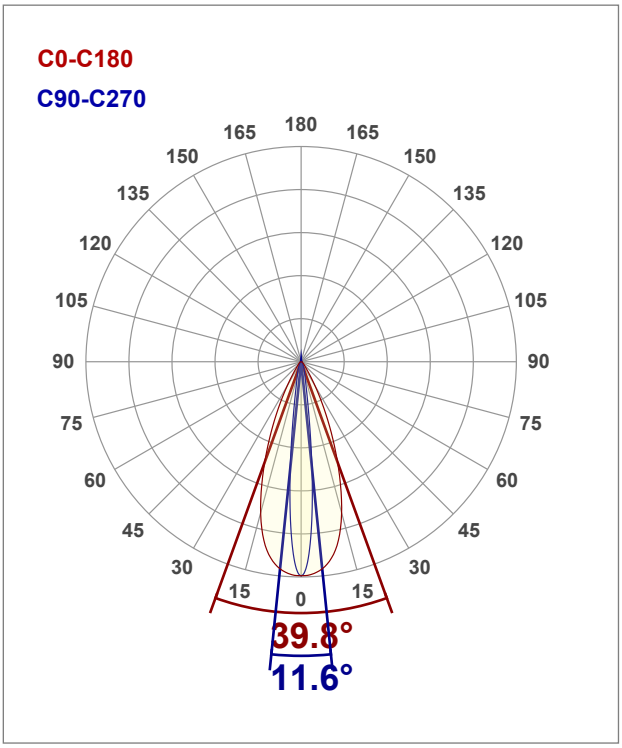
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	12493 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	61288 cd
Beam Angle (50%-FWHM)	20.0°

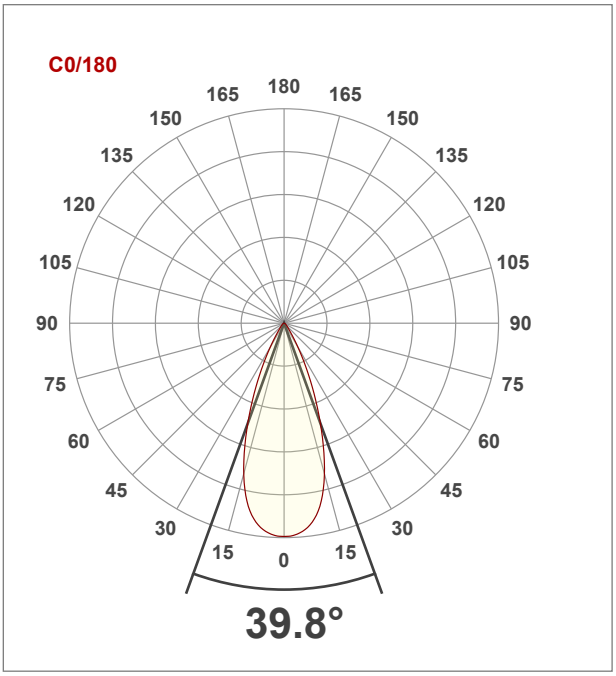
EU Ecodesign parameters

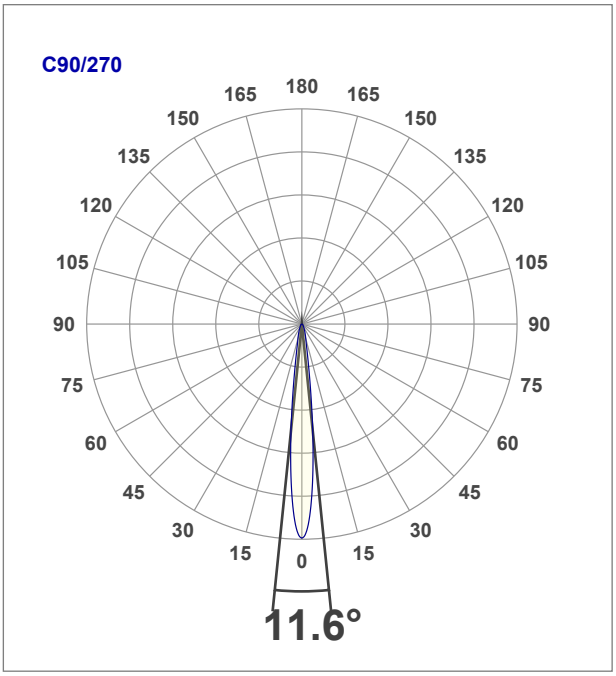
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	11.59 lm
Ecodesign Energy Class	F

Intensity Ratio

In 120° cone	97.6%
In 90° cone	92.77%

Angular Distribution





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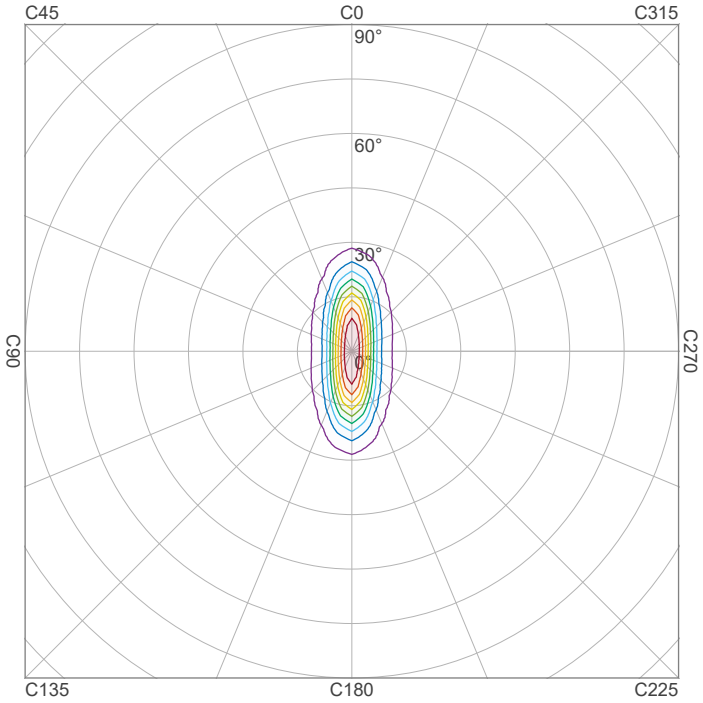
FL200-G2-XXX-RGBW3083-OM-1040-INF-XXXXX-X (W)

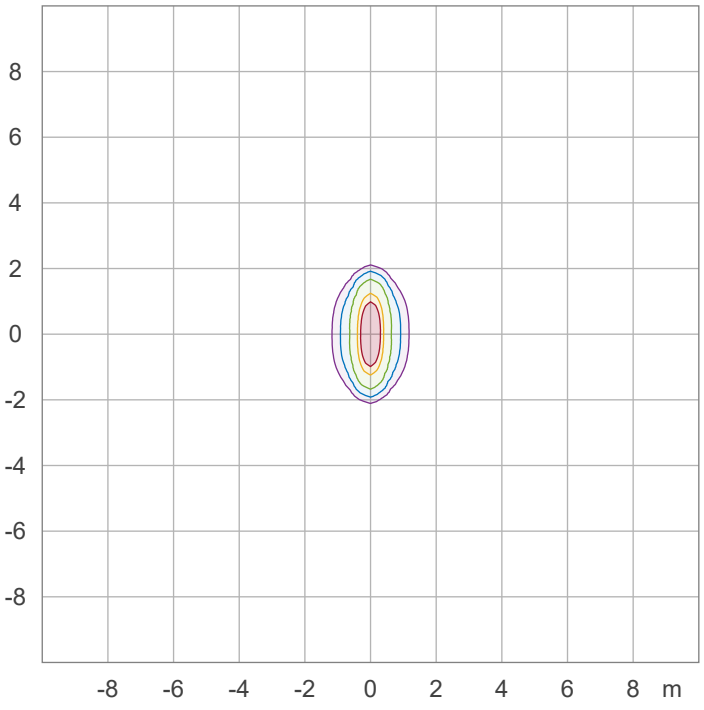
Iso-intensity Diagram (Iso-candela)



90 %	55075.9 cd
80 %	48956.4 cd
70 %	42836.8 cd
60 %	36717.3 cd
50 %	30597.7 cd
40 %	24478.2 cd
30 %	18358.6 cd
20 %	12239.1 cd
10 %	6119.5 cd

Peak intensity: 61195.5 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	3398 lx
30.0 %	2039 lx
10.0 %	680 lx
5.0 %	340 lx
3.0 %	204 lx

Peak illuminance: 6796 lx
Mounting height: 3 m
Number of c-planes: 36

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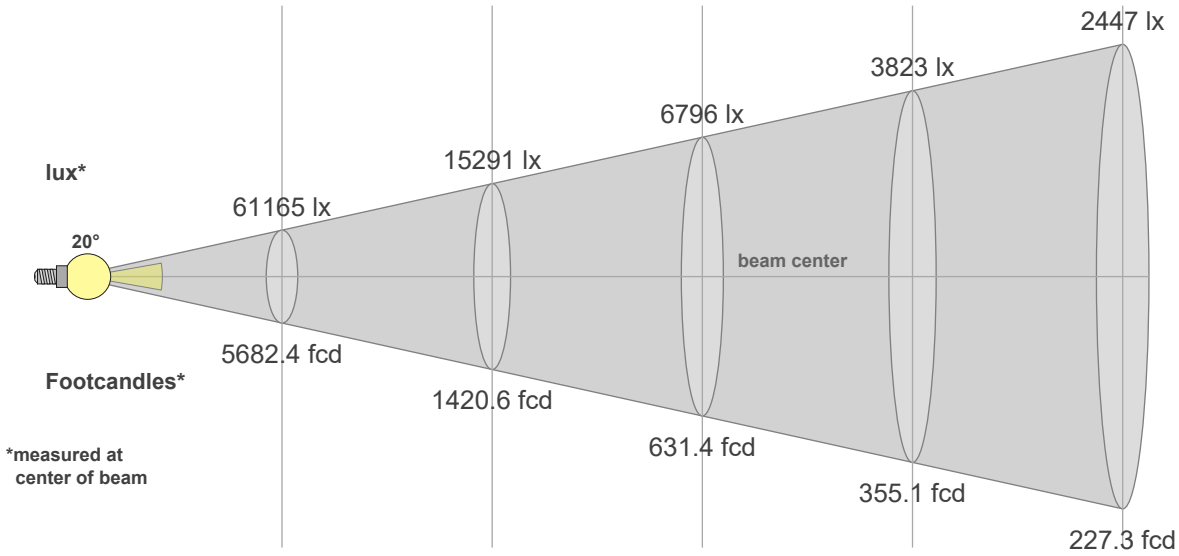
Beam details

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	0.7 m	1.1 m	1.4 m	1.8 m
Beam width (feet)	1.2 ft	2.3 ft	3.5 ft	4.6 ft	5.8 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
61165	15291	6796	3823	2447	1699	1248	956	755	612	505	425	362	312	272	239	212	189	169	153	lux
5682.4	1420.6	631.4	355.1	227.3	157.8	116	88.8	70.2	56.8	47	39.5	33.6	29	25.3	22.2	19.7	17.5	15.7	14.2	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
61.2k	61.2k	61.1k	60.8k	60.5k	60.0k	59.4k	58.6k	57.7k	56.5k	55.2k	53.6k	51.7k	49.6k	47.2k	44.7k	42.0k	39.1k	36.2k	33.3k	cd
100%	100%	100%	99%	99%	98%	97%	96%	94%	92%	90%	88%	85%	81%	77%	73%	69%	64%	59%	54%	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
61.2k	60.0k	56.6k	51.1k	44.3k	36.8k	29.2k	22.2k	16.6k	12.5k	9.8k	7.8k	6.4k	5.5k	4.8k	4.3k	3.9k	3.5k	3.2k	2.9k	cd
100%	98%	93%	84%	72%	60%	48%	36%	27%	21%	16%	13%	11%	9%	8%	7%	6%	6%	5%	5%	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
61.2k	61.2k	61.1k	60.8k	60.5k	60.0k	59.4k	58.6k	57.7k	56.5k	55.2k	53.6k	51.7k	49.6k	47.2k	44.7k	42.0k	39.1k	36.2k	33.3k	cd
100%	100%	100%	99%	99%	98%	97%	96%	94%	92%	90%	88%	85%	81%	77%	73%	69%	64%	59%	54%	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
61.2k	60.0k	56.6k	51.1k	44.3k	36.8k	29.2k	22.2k	16.6k	12.5k	9.8k	7.8k	6.4k	5.5k	4.8k	4.3k	3.9k	3.5k	3.2k	2.9k	cd
100%	98%	93%	84%	72%	60%	48%	36%	27%	21%	16%	13%	11%	9%	8%	7%	6%	6%	5%	5%	of 0°val

Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-1040-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	381.4 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

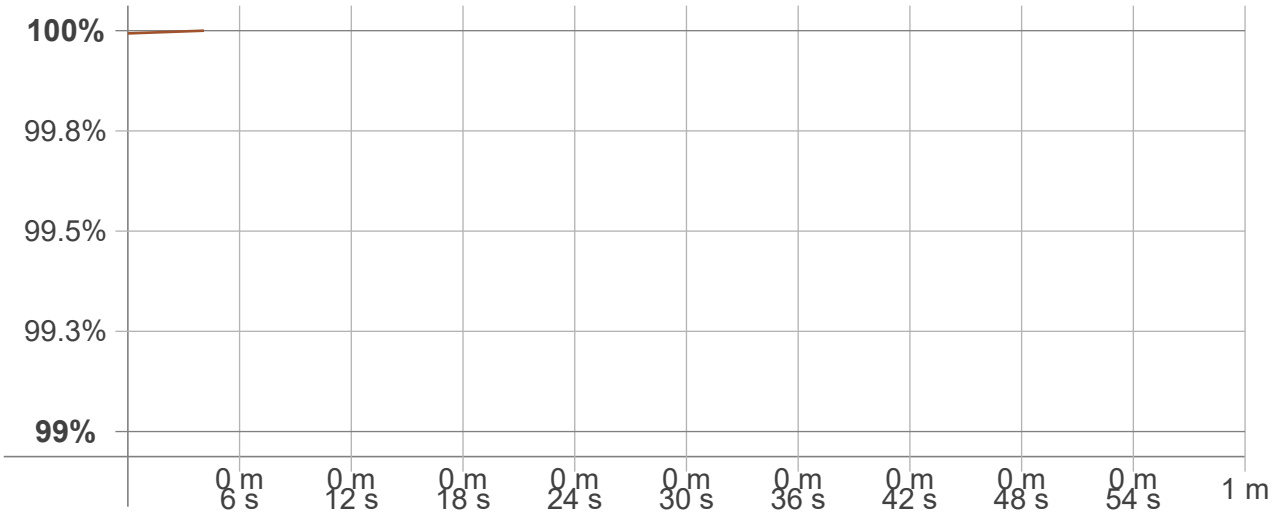
Efficiency

Radiated power efficiency	28.96
Lumen efficiency	96.91 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	12.49 lm
Warmup variation	0.0068%	Output change	0.8504 lm
		Output end	12.49 lm

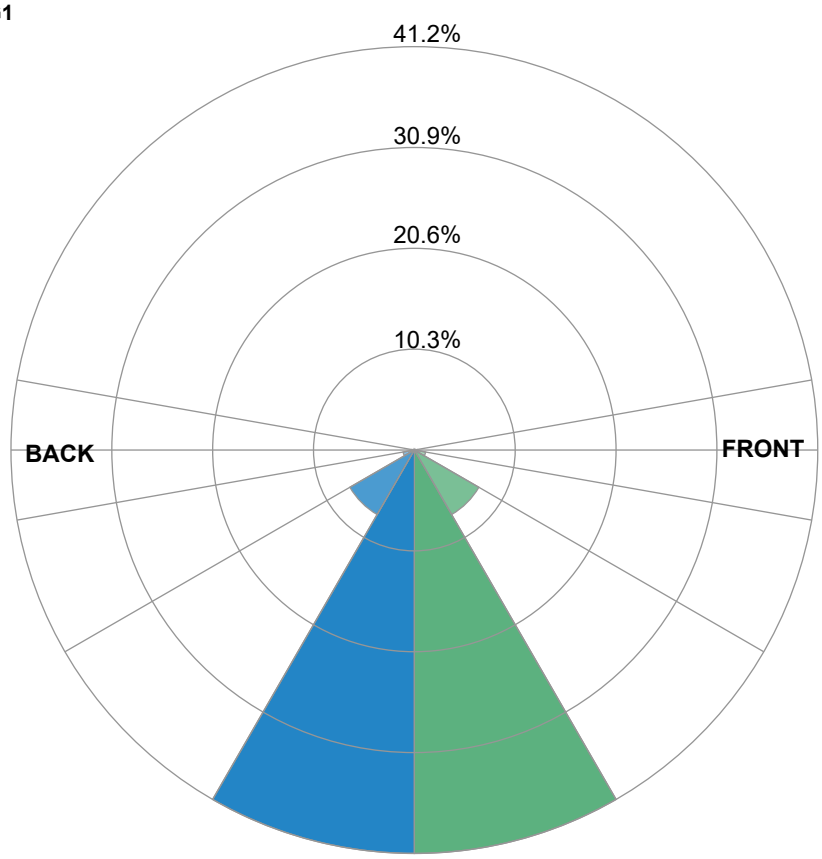
Stabilization Curve



Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-1040-INF-XXXXX-X (W)

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

Forward Light			
Low (0-30°)	5150	lm	41.2%
Medium (30-60°)	950	lm	7.60%
High (60-80°)	146	lm	1.17%
Very High (80-90°)	4.29	lm	0.0343%
Back Light			
Low (0-30°)	5150	lm	41.2%
Medium (30-60°)	950	lm	7.60%
High (60-80°)	146	lm	1.17%
Very High (80-90°)	4.29	lm	0.0343%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	12.49	lm	100%

BUG RATING B5 U0 G1