Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-80-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.27-8943-VO
Measurement date	2026-05-27

Measurement Conditions

Tested c-planes	24 planes – 15.00°
Tested gamma resolution	3.00°
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

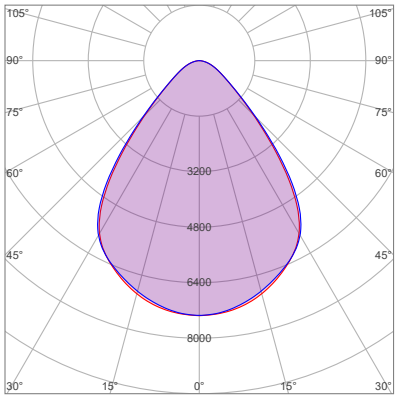
Tested Light Source

Product family	FL200-G2
Luminaire configuration	FL200-G2-XXX-RGBW3083-OM-80-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

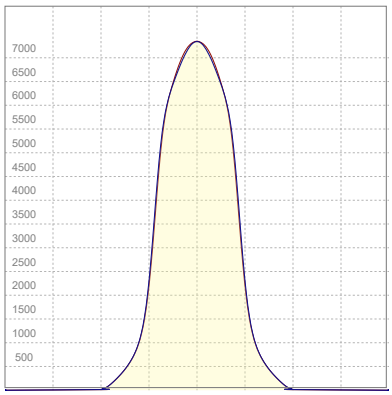
Output – Total Lumen	12171 - 0.4736% / 99.53%
Efficiency	94.41 lm/W
Peak Intensity	7350
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	78.3°
Beam Angle (FWHM) | C90/270	79.6°
Field Angle (10%) | C0/180	118.5°Unit: 0-100% of peak intensity
Optical Power	36522 mW
Peak Wavelength	602 nm
Dominant Wavelength	584 nm

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

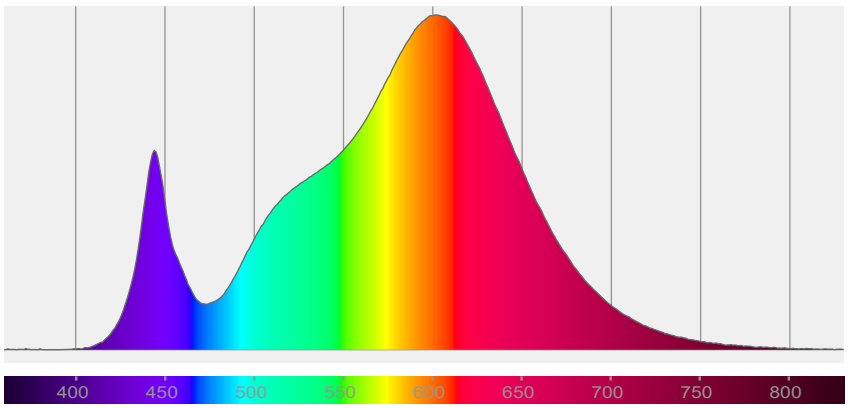


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

3040 K

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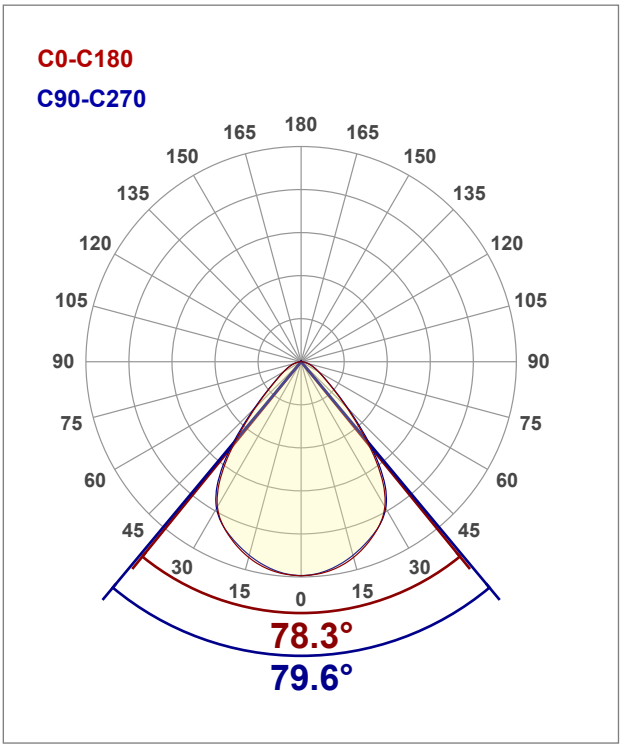
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	12171 lm
Lumen Up% / Down%	0.4736% / 99.53%
Peak Intensity	7350 cd
Beam Angle (50%-FWHM)	79.4°

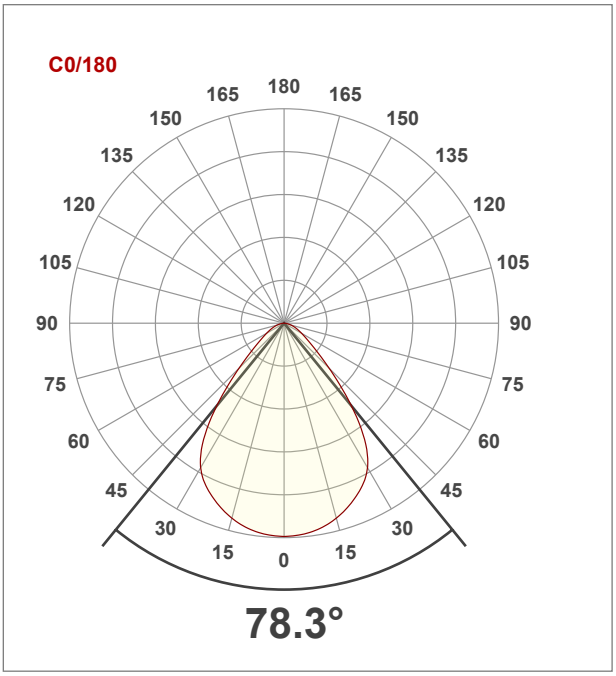
EU Ecodesign parameters

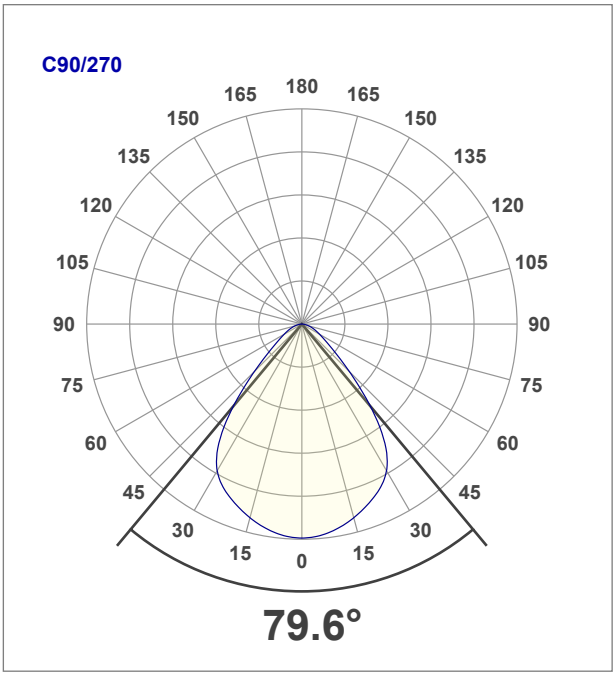
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	9629 lm
Ecodesign Energy Class	F

Intensity Ratio

In 120° cone	92.49%
In 90° cone	79.12%

Angular Distribution





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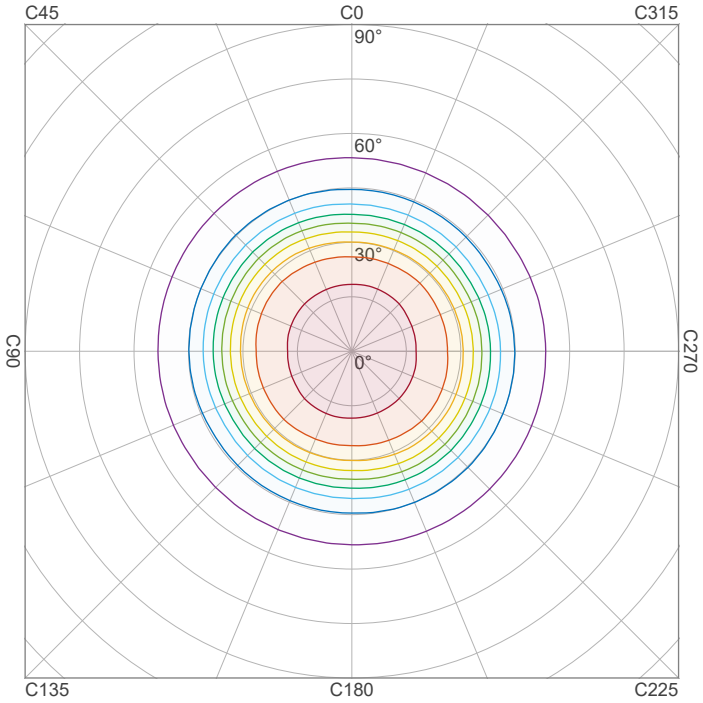
FL200-G2-XXX-RGBW3083-OM-80-INF-XXXXX-X (W)

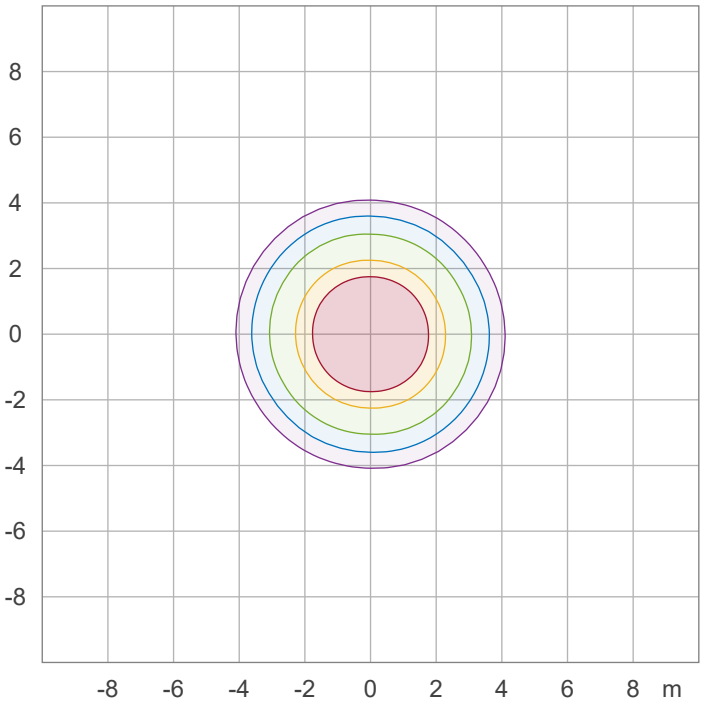
Iso-intensity Diagram (Iso-candela)



90 %	6612.2 cd
80 %	5877.5 cd
70 %	5142.8 cd
60 %	4408.1 cd
50 %	3673.4 cd
40 %	2938.7 cd
30 %	2204.1 cd
20 %	1469.4 cd
10 %	734.7 cd

Peak intensity: 7346.9 cd
Number of c-planes: 24

Iso-illuminance Diagram (Iso-lux)



50.0 %	408 lx
30.0 %	245 lx
10.0 %	81.6 lx
5.0 %	40.8 lx
3.0 %	24.5 lx

Peak illuminance: 816 lx
Mounting height: 3 m
Number of c-planes: 24

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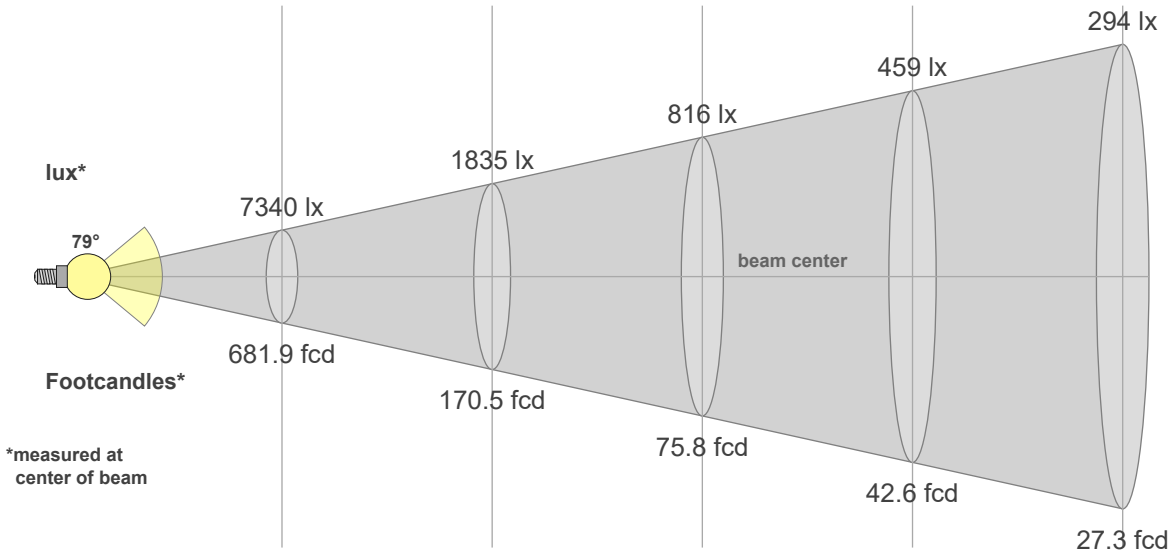
Beam details

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)	1.7 m	3.3 m	5 m	6.6 m	8.3 m
Beam width (feet)	5.5 ft	10.9 ft	16.4 ft	21.8 ft	27.3 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
7340	1835	816	459	294	204	150	115	91	73	61	51	43	37	33	29	25	23	20	18	lux
681.9	170.5	75.8	42.6	27.3	18.9	13.9	10.7	8.4	6.8	5.6	4.7	4	3.5	3	2.7	2.4	2.1	1.9	1.7	fc

Intensities in 0° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	γ
7340	7301	7178	6952	6645	6273	5733	4783	3441	2217	1417	959	701	516	371	250	144	59	13	12	cd
100%	99%	98%	95%	91%	85%	78%	65%	47%	30%	19%	13%	10%	7%	5%	3%	2%	1%	0%	0%	of 0°val

Intensities in 90° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	γ
7340	7279	7115	6877	6592	6271	5793	4933	3618	2321	1454	973	705	519	373	251	145	61	14	13	cd
100%	99%	97%	94%	90%	85%	79%	67%	49%	32%	20%	13%	10%	7%	5%	3%	2%	1%	0%	0%	of 0°val

Intensities in 180° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	γ
7340	7301	7178	6952	6645	6273	5733	4783	3441	2217	1417	959	701	516	371	250	144	59	13	12	cd
100%	99%	98%	95%	91%	85%	78%	65%	47%	30%	19%	13%	10%	7%	5%	3%	2%	1%	0%	0%	of 0°val

Intensities in 270° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	γ
7340	7279	7115	6877	6592	6271	5793	4933	3618	2321	1454	973	705	519	373	251	145	61	14	13	cd
100%	99%	97%	94%	90%	85%	79%	67%	49%	32%	20%	13%	10%	7%	5%	3%	2%	1%	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	128.9 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

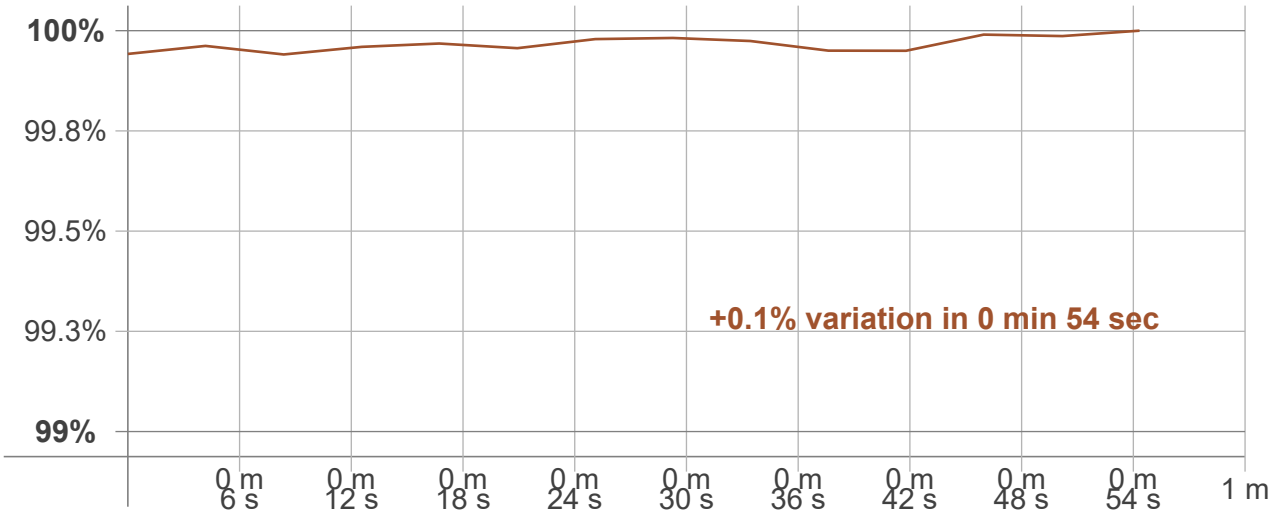
Efficiency

Radiated power efficiency	28.33
Lumen efficiency	94.41 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	12.17 lm
Warmup variation	0.0593%	Output change	2.178 lm
		Output end	12.17 lm

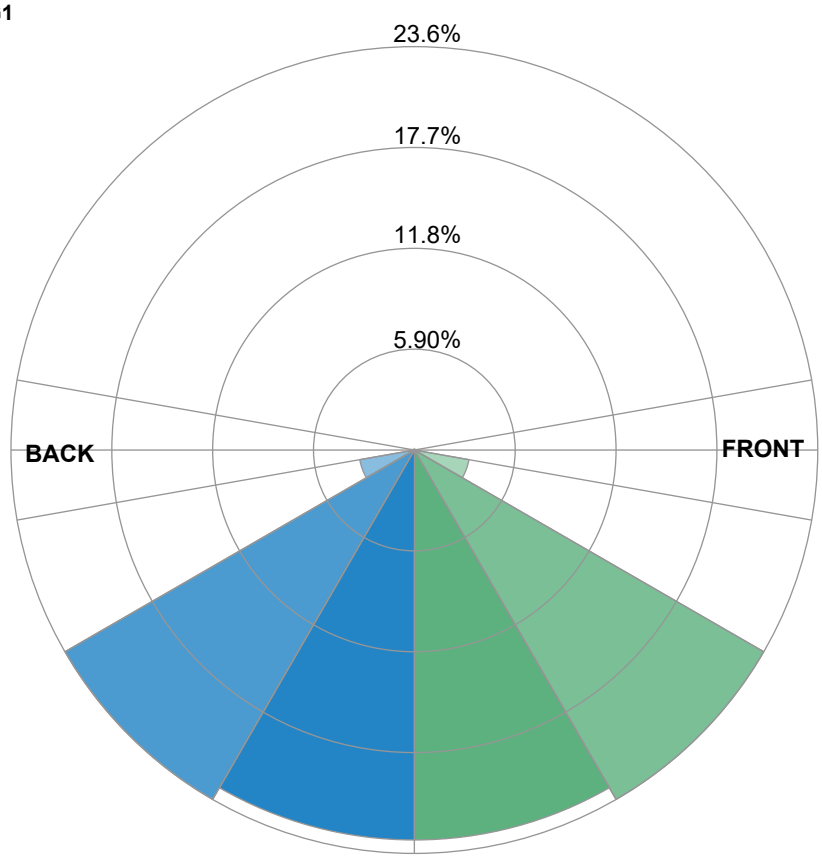
Stabilization Curve



Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-80-INF-XXXXX-X (W)

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

Forward Light			
Low (0-30°)	2780	lm	22.8%
Medium (30-60°)	2870	lm	23.6%
High (60-80°)	395	lm	3.25%
Very High (80-90°)	36.4	lm	0.299%
Back Light			
Low (0-30°)	2780	lm	22.8%
Medium (30-60°)	2870	lm	23.6%
High (60-80°)	395	lm	3.25%
Very High (80-90°)	36.4	lm	0.299%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	12.17	lm	100%

BUG RATING B4 U0 G1