Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-90-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.26-8914-VO
Measurement date	2026-05-26

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	5.00°
Input Power	128.2 W

Electrical Data

Input Power	128.2 W
Input Voltage	381.4 V DC
Input Current	0.34 A
Power Factor	1.00

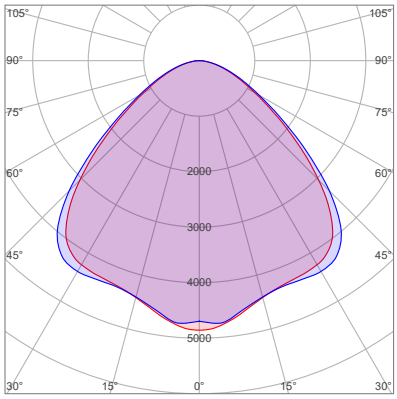
Tested Light Source

Product family	FL200-G2
Luminaire configuration	FL200-G2-XXX-RGBW3083-OM-90-INF-XXXXX-X (W)
Manufacturer	GVA Lighting, Inc.
Size (width x length x height)	106 mm 0 mm x 430 mm

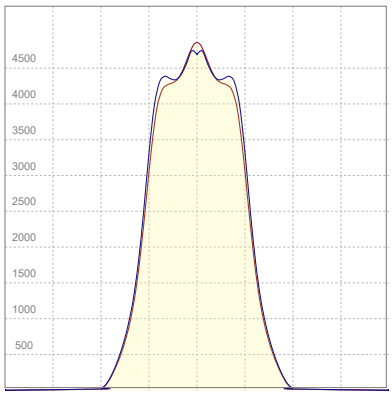
Main Light Measurement Results

Output – Total Lumen	11842 - 0.5323% / 99.47%
Efficiency	92.41 lm/W
Peak Intensity	4877
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	98.5°
Beam Angle (FWHM) | C90/270	101.8°
Field Angle (10%) | C0/180	143.7°Unit: 0-100% of peak intensity
Optical Power	35567 mW
Peak Wavelength	602 nm
Dominant Wavelength	584 nm

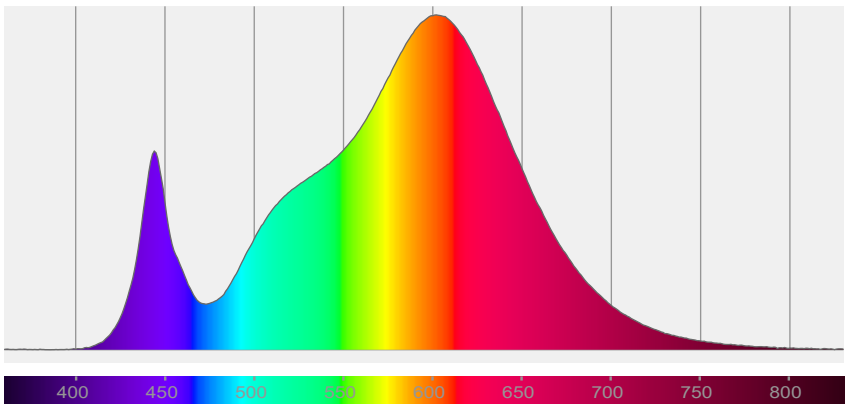
Polar Light Distribution Diagram
Unit: 0-100% of peak intensity



Linear distribution Diagram



Spectral Distribution



Color Temperature

3039 K

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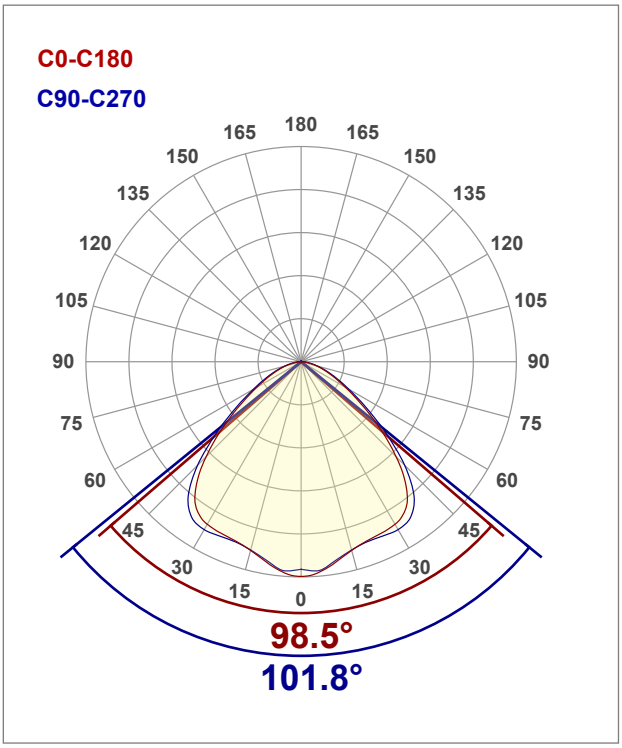
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	11842 lm
Lumen Up% / Down%	0.5323% / 99.47%
Peak Intensity	4877 cd
Beam Angle (50%-FWHM)	101.1°

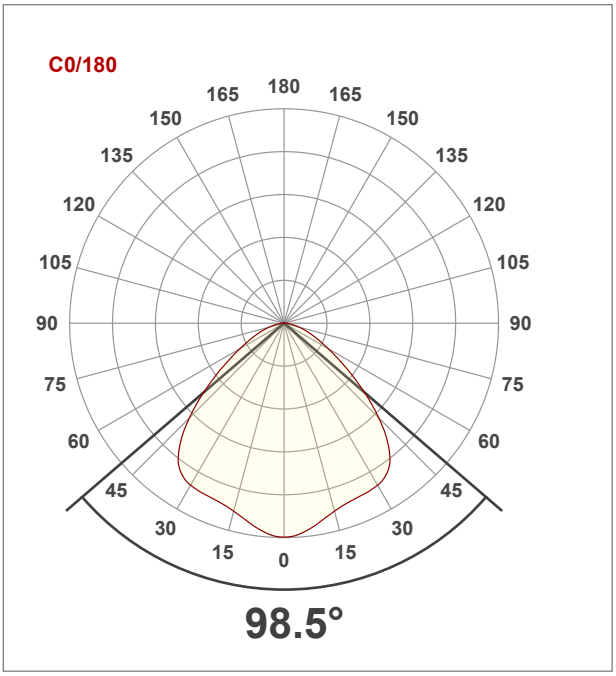
EU Ecodesign parameters

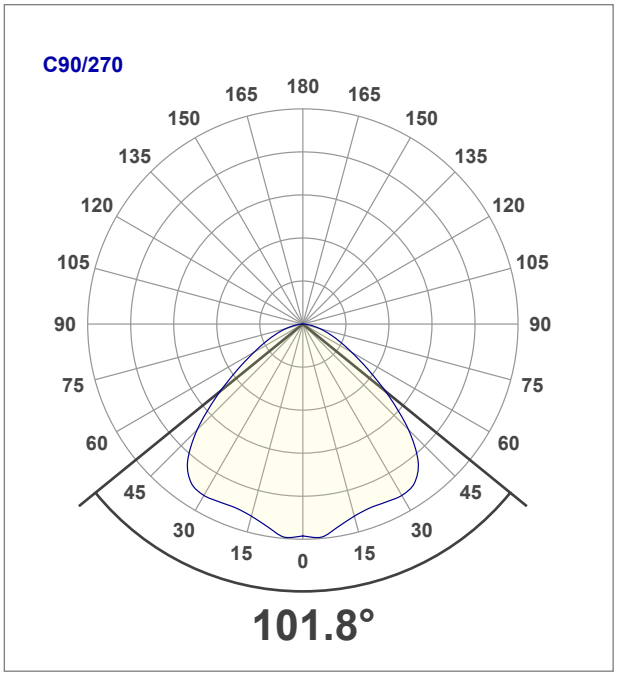
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	10.4 lm
Ecodesign Energy Class	F

Intensity Ratio

In 120° cone	87.86%
In 90° cone	64.45%

Angular Distribution





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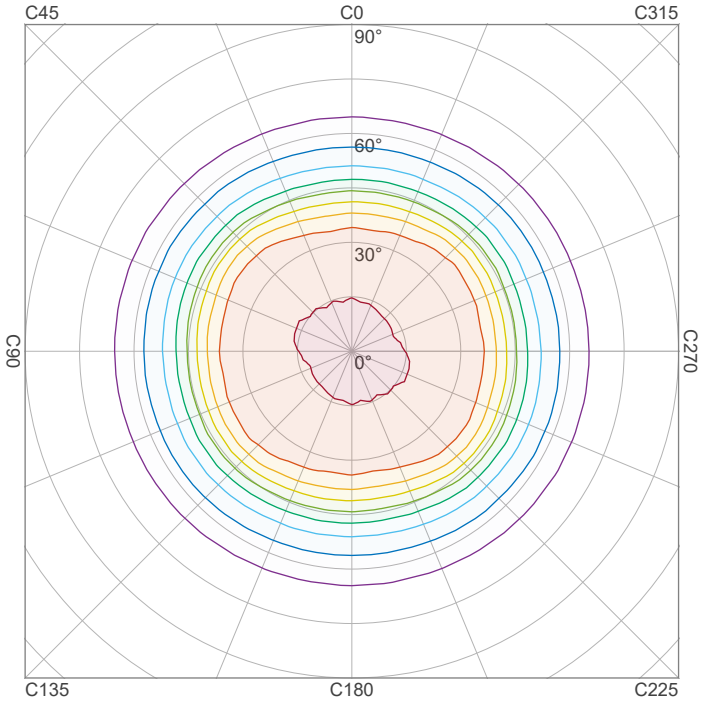
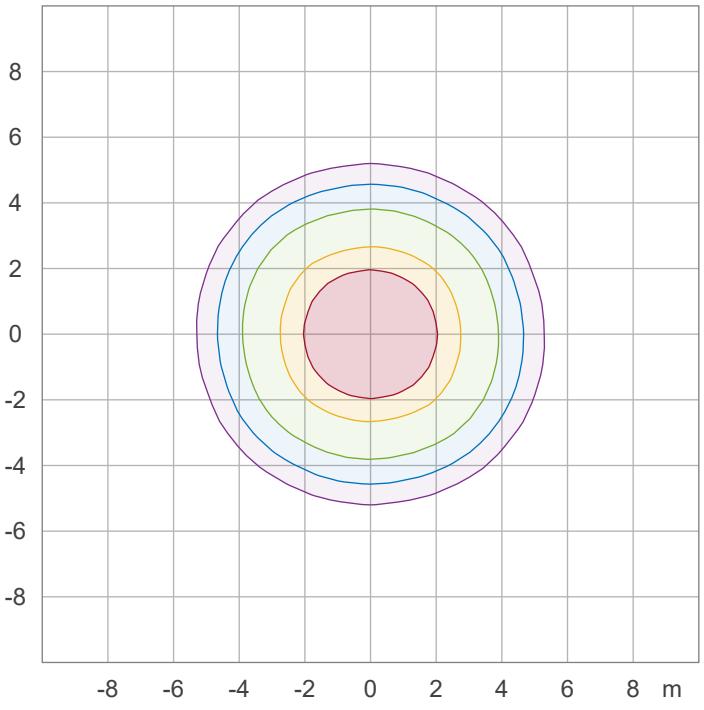
Iso-intensity Diagram (Iso-candela)



90 %	4389.5 cd
80 %	3901.8 cd
70 %	3414.1 cd
60 %	2926.3 cd
50 %	2438.6 cd
40 %	1950.9 cd
30 %	1463.2 cd
20 %	975.4 cd
10 %	487.7 cd

Peak intensity: 4877.2 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	271 lx
30.0 %	163 lx
10.0 %	54.2 lx
5.0 %	27.1 lx
3.0 %	16.3 lx

Peak illuminance: 542 lx
Mounting height: 3 m
Number of c-planes: 36

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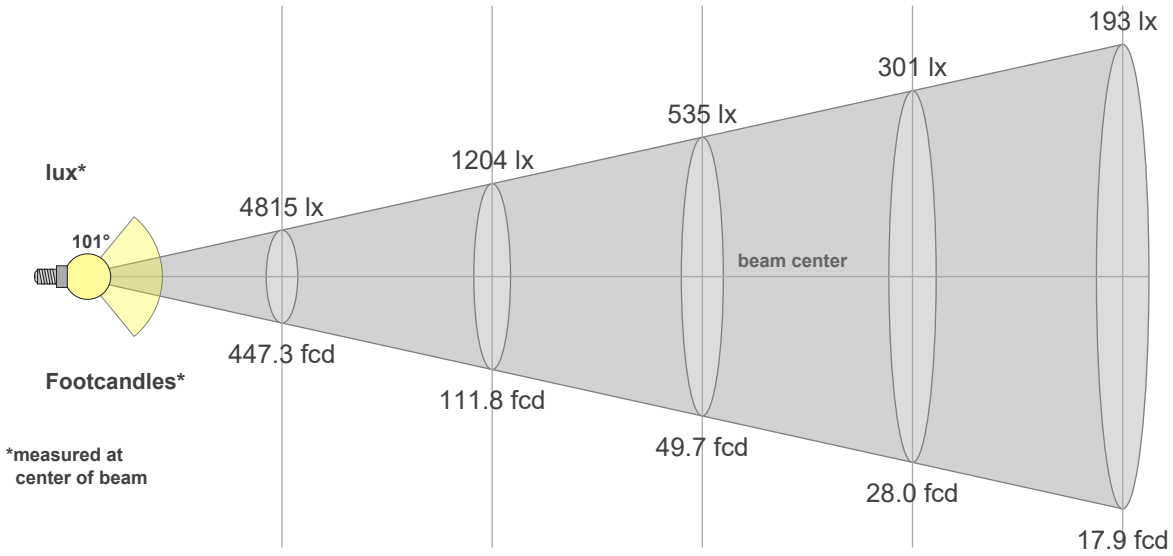
Beam details

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)	2.4 m	4.9 m	7.3 m	9.7 m	12.1 m
Beam width (feet)	8 ft	15.9 ft	23.9 ft	31.9 ft	39.8 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
4815	1204	535	301	193	134	98	75	59	48	40	33	28	25	21	19	17	15	13	12	lux
447.3	111.8	49.7	28	17.9	12.4	9.1	7	5.5	4.5	3.7	3.1	2.6	2.3	2	1.7	1.5	1.4	1.2	1.1	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
4815	4765	4595	4427	4326	4282	4233	4073	3673	3035	2316	1670	1173	821	562	363	201	82	15	14	cd
100%	99%	95%	92%	90%	89%	88%	85%	76%	63%	48%	35%	24%	17%	12%	8%	4%	2%	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
4815	4739	4556	4408	4338	4353	4385	4307	3974	3312	2497	1778	1251	886	610	390	217	89	17	16	cd
100%	98%	95%	92%	90%	90%	91%	89%	83%	69%	52%	37%	26%	18%	13%	8%	5%	2%	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
4815	4765	4595	4427	4326	4282	4233	4073	3673	3035	2316	1670	1173	821	562	363	201	82	15	14	cd
100%	99%	95%	92%	90%	89%	88%	85%	76%	63%	48%	35%	24%	17%	12%	8%	4%	2%	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
4815	4739	4556	4408	4338	4353	4385	4307	3974	3312	2497	1778	1251	886	610	390	217	89	17	16	cd
100%	98%	95%	92%	90%	90%	91%	89%	83%	69%	52%	37%	26%	18%	13%	8%	5%	2%	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	128.2 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	128.2 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

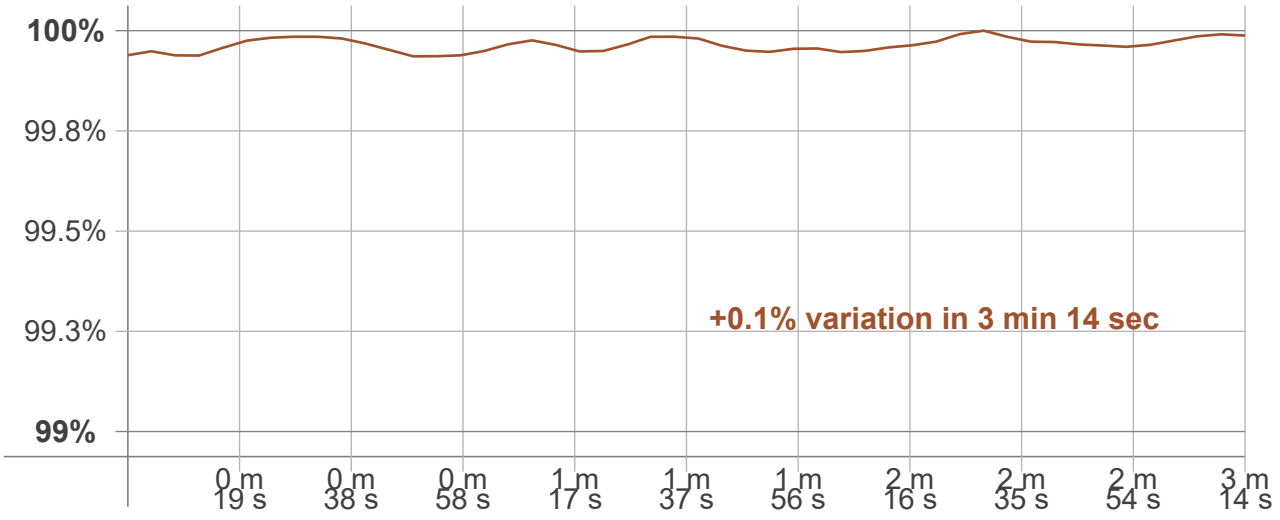
Efficiency

Radiated power efficiency	27.75
Lumen efficiency	92.41 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	11.84 lm
Warmup variation	0.0922%	Output change	3.623 lm
		Output end	11.84 lm

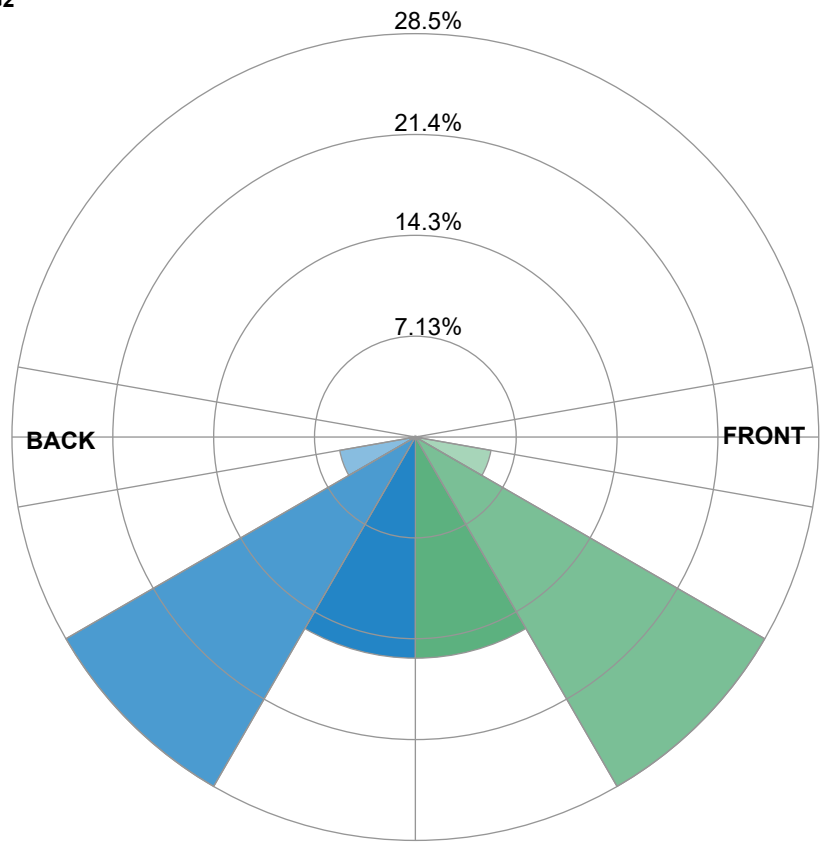
Stabilization Curve



Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-90-INF-XXXXX-X (W)

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

Forward Light			
Low (0-30°)	1850	lm	15.6%
Medium (30-60°)	3380	lm	28.5%
High (60-80°)	643	lm	5.43%
Very High (80-90°)	52.5	lm	0.443%
Back Light			
Low (0-30°)	1850	lm	15.6%
Medium (30-60°)	3380	lm	28.5%
High (60-80°)	643	lm	5.43%
Very High (80-90°)	52.5	lm	0.443%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	11.84	lm	100%

BUG RATING B3 U0 G2