Photometric Test Report

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

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.16-7340-VO
Measurement date	2026-03-16

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	118.4 V DC
Input Current	0.00 A
Power Factor	NaN

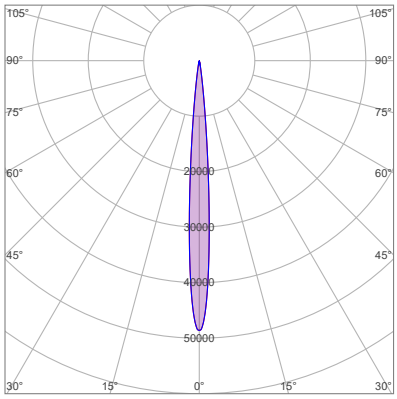
Tested Light Source

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

Main Light Measurement Results

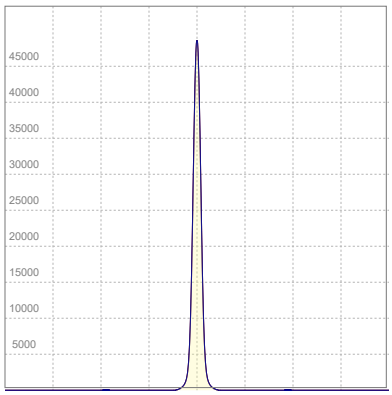
Output – Total Lumen	1222 - 0% / 100%
Efficiency	∞ lm/W
Peak Intensity	48492
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	8.2°
Beam Angle (FWHM) | C90/270	8.2°
Field Angle (10%) | C0/180	15.0°Unit: 0-100% of peak intensity
Optical Power	27127 mW
Peak Wavelength	455 nm
Dominant Wavelength	459 nm

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

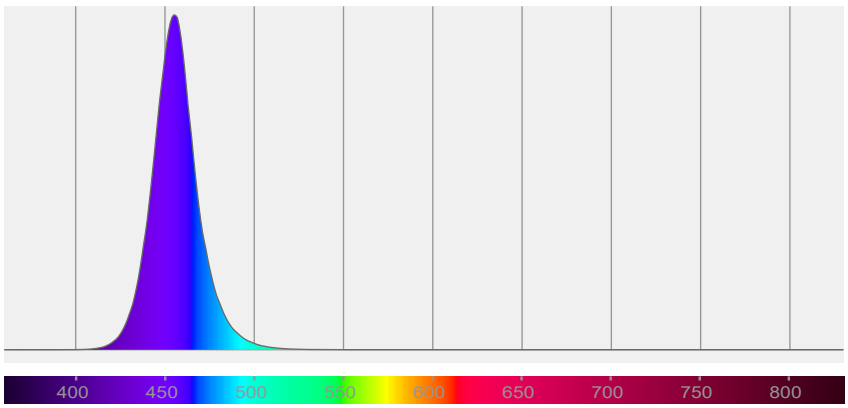


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

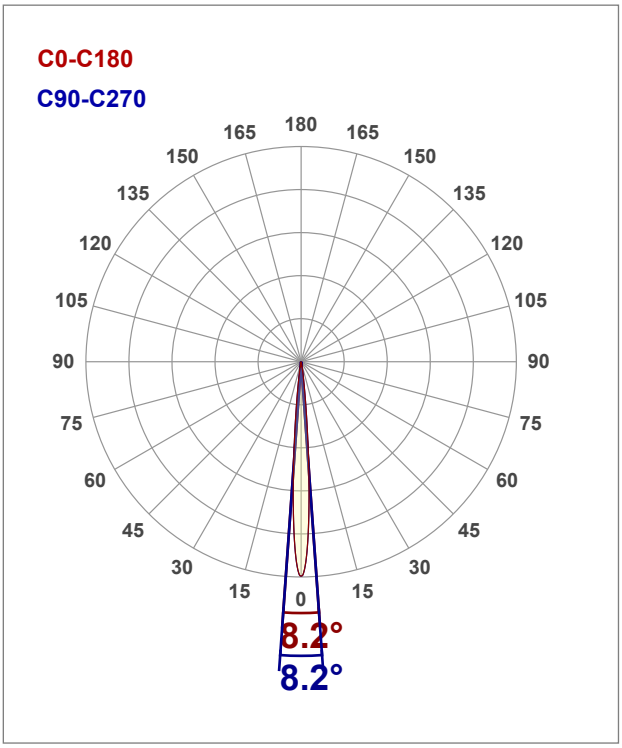
NaN K

Photometric Test Report

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

Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	1222 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	48492 cd
Beam Angle (50%-FWHM)	8.2°

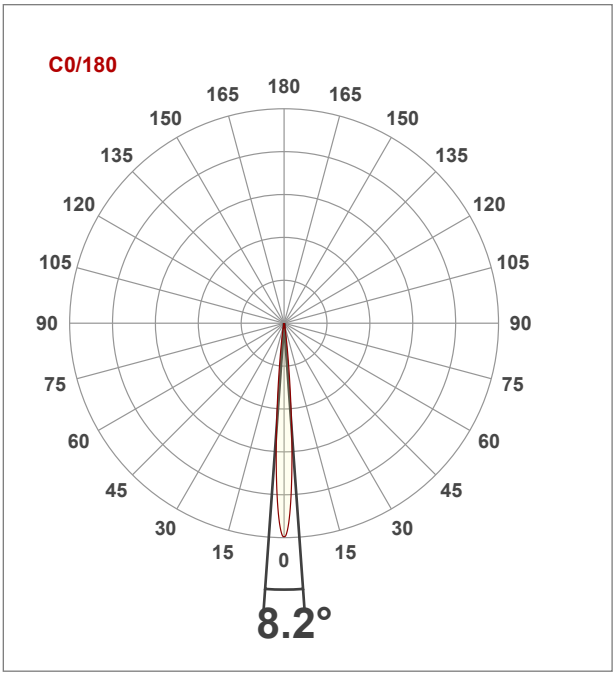
EU Ecodesign parameters

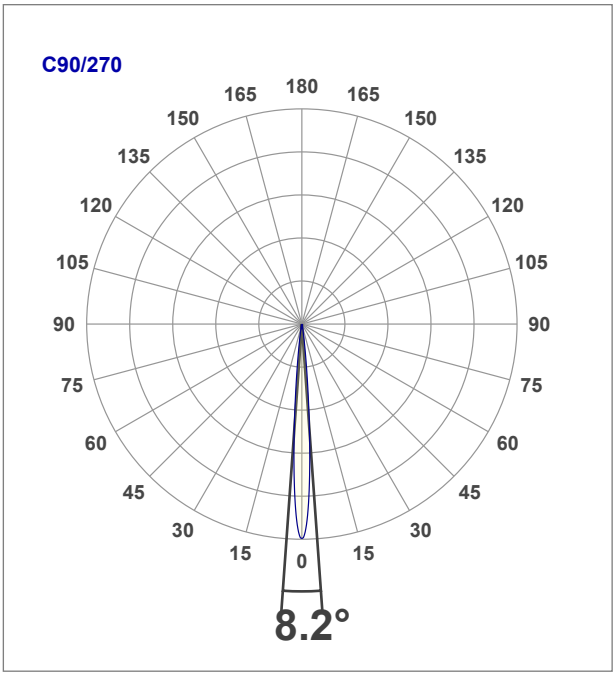
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	1222 lm
Ecodesign Energy Class	A

Intensity Ratio

In 120° cone	100%
In 90° cone	100%

Angular Distribution

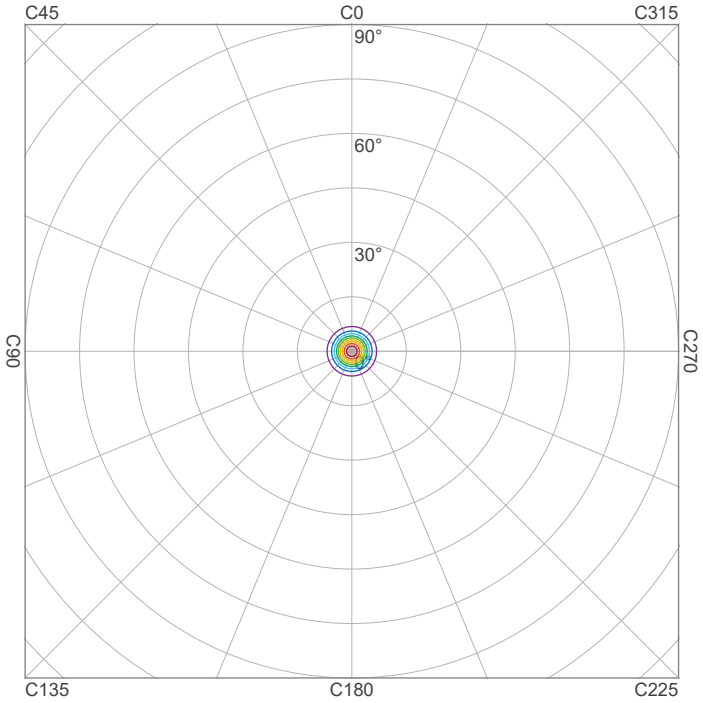




Photometric Test Report

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

Iso-intensity Diagram (Iso-candela)

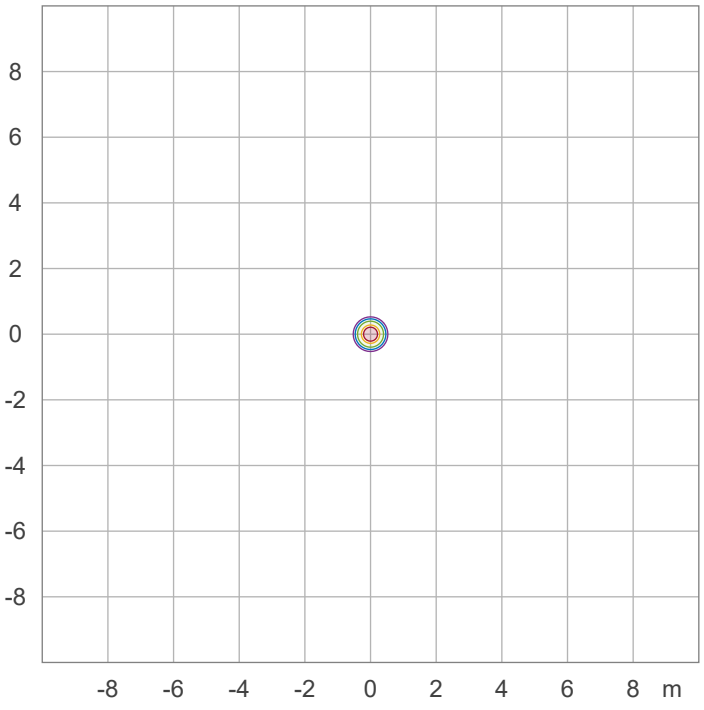


90 %	43642.8 cd
80 %	38793.6 cd
70 %	33944.4 cd
60 %	29095.2 cd
50 %	24246.0 cd
40 %	19396.8 cd
30 %	14547.6 cd
20 %	9698.4 cd
10 %	4849.2 cd

Peak intensity: 48492.0 cd

Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	2694 lx
30.0 %	1616 lx
10.0 %	539 lx
5.0 %	269 lx
3.0 %	162 lx

Peak illuminance: 5388 lx

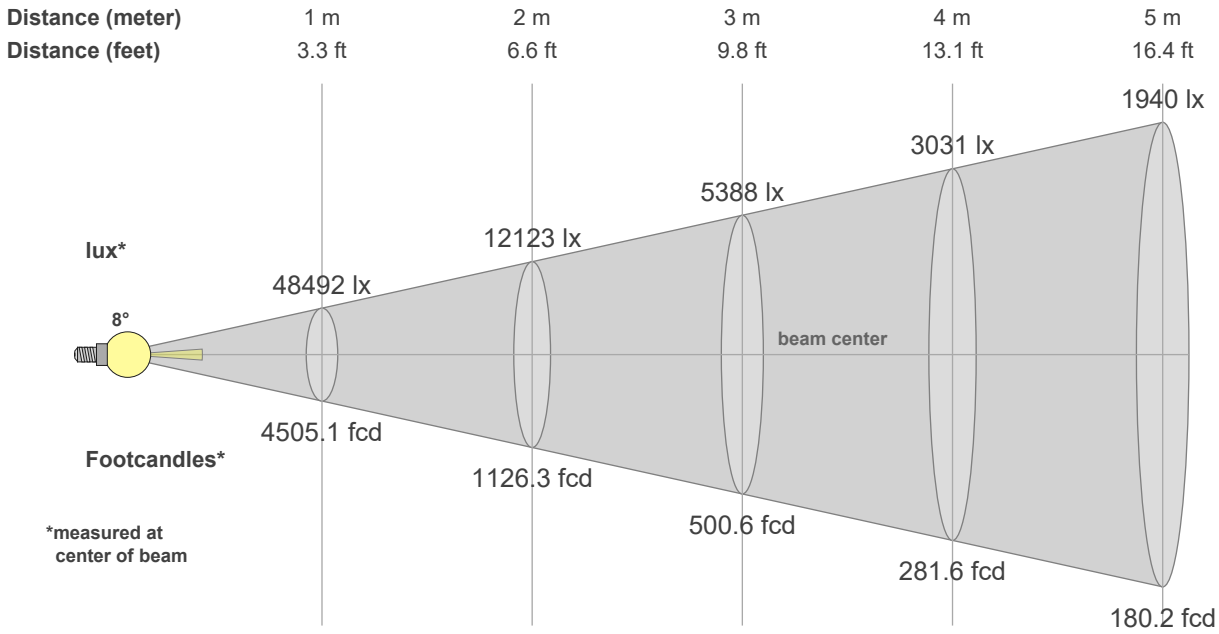
Mounting height: 3 m

Number of c-planes: 36

Photometric Test Report

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

Beam details



Photometric Test Report

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

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
48492	12123	5388	3031	1940	1347	990	758	599	485	401	337	287	247	216	189	168	150	134	121	lux
4505.1	1126.3	500.6	281.6	180.2	125.1	91.9	70.4	55.6	45.1	37.2	31.3	26.7	23	20	17.6	15.6	13.9	12.5	11.3	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
48.5k	46.8k	41.5k	33.7k	25.0k	16.8k	10.5k	6.3k	3.7k	2.3k	1.5k	1.1k	0.8k	0.6k	0.4k	0.3k	0.2k	0.1k	0.1k	0.0k	cd
100%	96%	86%	69%	51%	35%	22%	13%	8%	5%	3%	2%	2%	1%	1%	1%	0%	0%	0%	0%	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
48.5k	46.8k	41.5k	33.7k	25.0k	16.8k	10.5k	6.3k	3.7k	2.3k	1.5k	1.1k	0.8k	0.6k	0.4k	0.3k	0.2k	0.1k	0.1k	0.0k	cd
100%	96%	86%	69%	51%	35%	22%	13%	8%	5%	3%	2%	2%	1%	1%	1%	0%	0%	0%	0%	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
48.5k	46.8k	41.5k	33.7k	25.0k	16.8k	10.5k	6.3k	3.7k	2.3k	1.5k	1.1k	0.8k	0.6k	0.4k	0.3k	0.2k	0.1k	0.1k	0.0k	cd
100%	96%	86%	69%	51%	35%	22%	13%	8%	5%	3%	2%	2%	1%	1%	1%	0%	0%	0%	0%	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
48.5k	46.8k	41.5k	33.7k	25.0k	16.8k	10.5k	6.3k	3.7k	2.3k	1.5k	1.1k	0.8k	0.6k	0.4k	0.3k	0.2k	0.1k	0.1k	0.0k	cd
100%	96%	86%	69%	51%	35%	22%	13%	8%	5%	3%	2%	2%	1%	1%	1%	0%	0%	0%	0%	of 0°val

Photometric Test Report

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

Power details

Input power	
Frequency of input power	60.0 Hz
Power feed to light source	0 W
RMS Input voltage feed V,RMS	118.4 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	1.822%

Input power curve

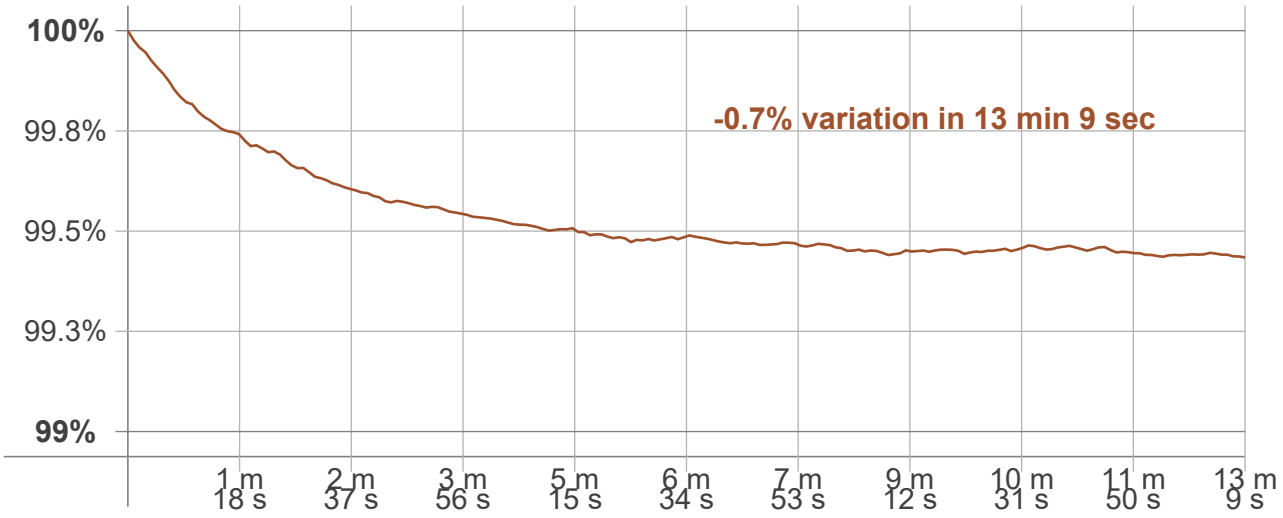
Efficiency

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	Not completed	Output start	1229 lm
Warmup variation	-0.7118%	Output change	-7.3636 lm
		Output end	1222 lm

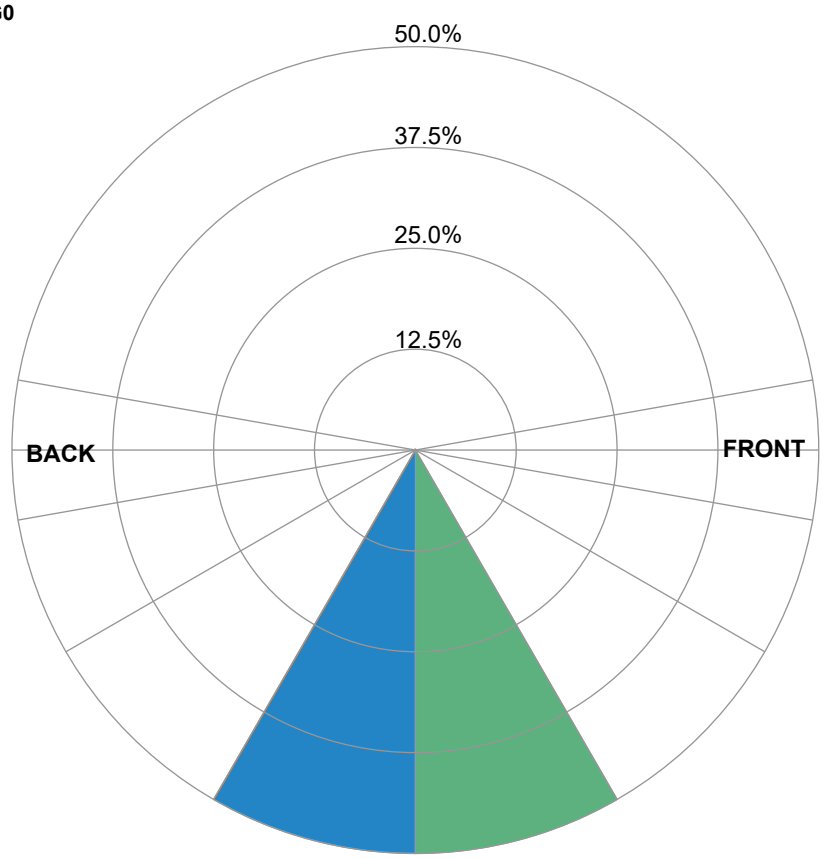
Stabilization Curve



Photometric Test Report

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

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

Forward Light			
Low (0-30°)	611	lm	50.0%
Medium (30-60°)	0	lm	0%
High (60-80°)	0	lm	0%
Very High (80-90°)	0	lm	0%
Back Light			
Low (0-30°)	611	lm	50.0%
Medium (30-60°)	0	lm	0%
High (60-80°)	0	lm	0%
Very High (80-90°)	0	lm	0%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	1222	lm	100%

BUG RATING B2 U0 G0