Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-4-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.Mar.16-7345-VO
Measurement date	2026-03-16

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	0.20°
Input Power	0 W

Electrical Data

Input Power	0 W
Input Voltage	117.9 V DC
Input Current	0.00 A
Power Factor	NaN

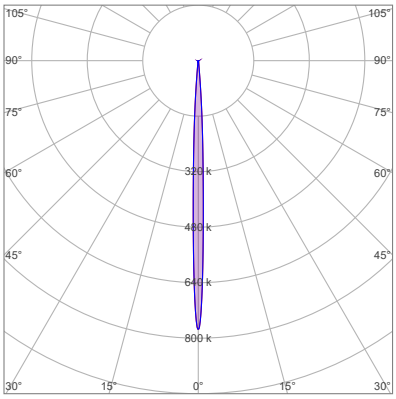
Tested Light Source

Product family	FL200-G2
Luminaire configuration	FL200-G2-XXX-RGBW3083-OM-4-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

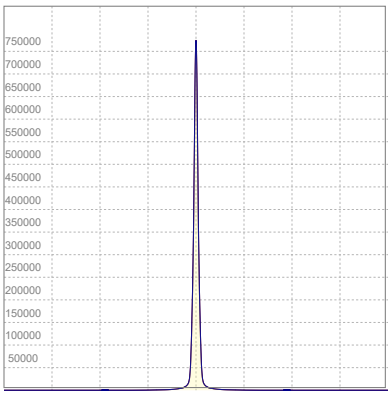
Output – Total Lumen	9489 - 0% / 100%
Efficiency	∞ lm/W
Peak Intensity	772633
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	4.3°
Beam Angle (FWHM) | C90/270	4.3°
Field Angle (10%) | C0/180	9.5°Unit: 0-100% of peak intensity
Optical Power	28391 mW
Peak Wavelength	599 nm
Dominant Wavelength	582 nm

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

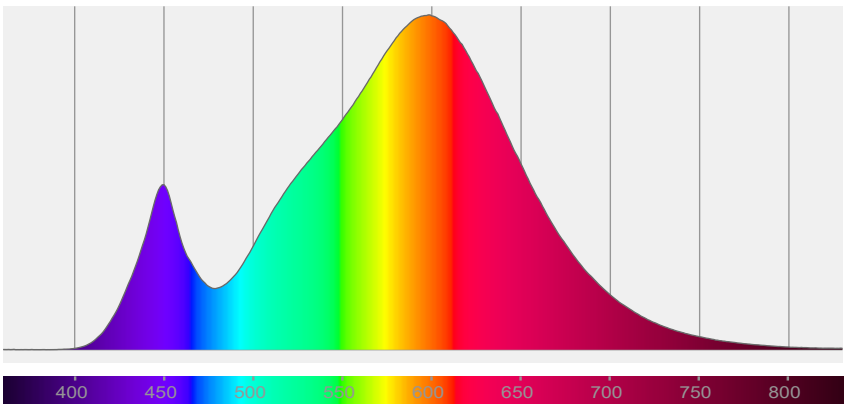


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

3191 K

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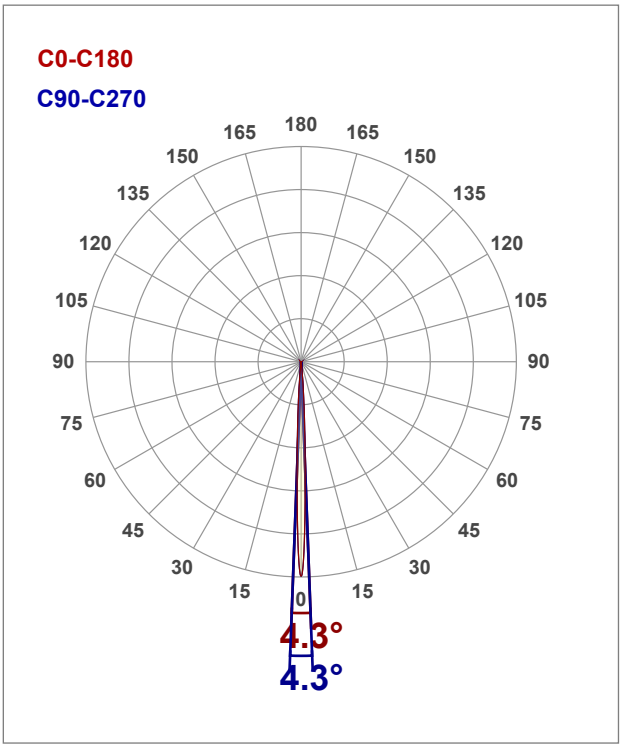
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	9489 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	772633 cd
Beam Angle (50%-FWHM)	4.3°

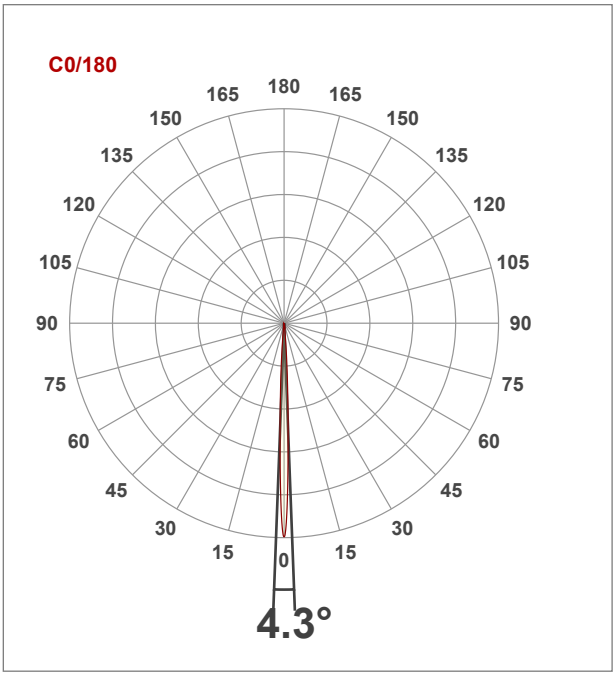
EU Ecodesign parameters

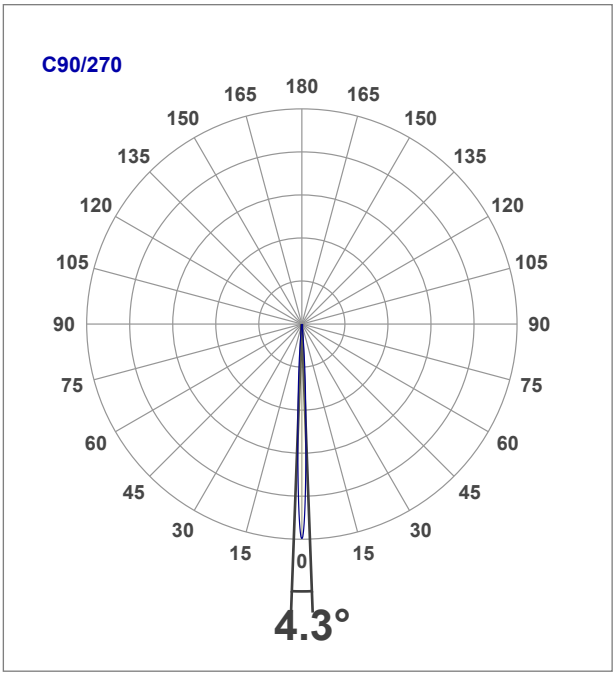
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	9351 lm
Ecodesign Energy Class	A

Intensity Ratio

In 120° cone	100%
In 90° cone	98.55%

Angular Distribution





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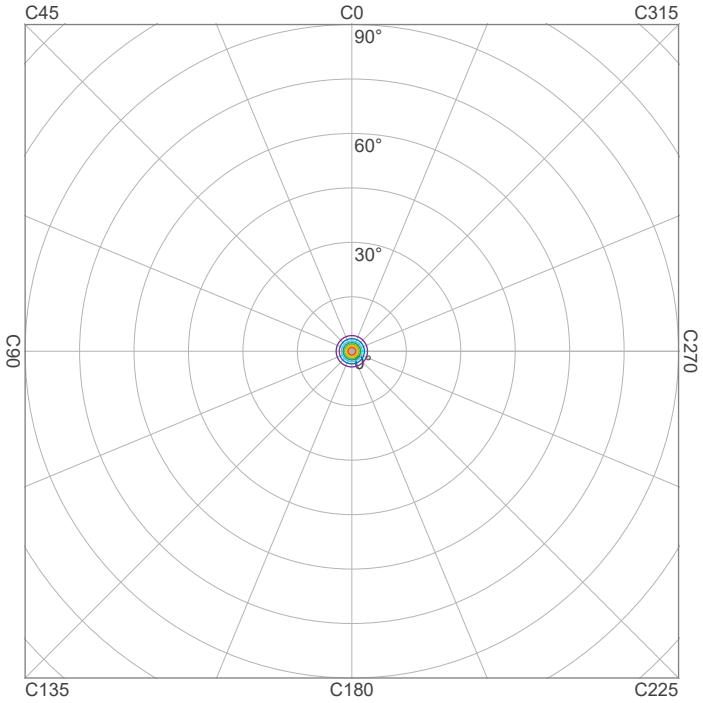
Iso-intensity Diagram (Iso-candela)

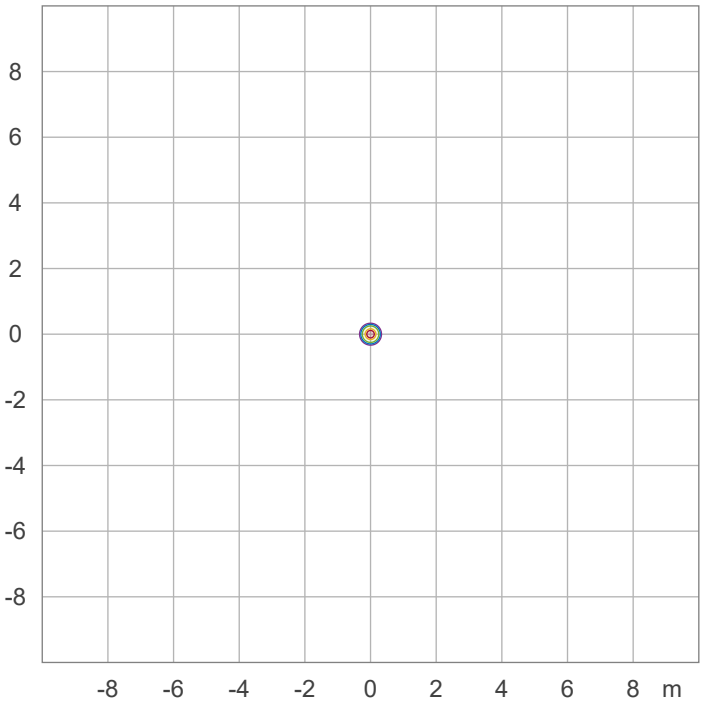


90 %	695369.6 cd
80 %	618106.4 cd
70 %	540843.1 cd
60 %	463579.8 cd
50 %	386316.5 cd
40 %	309053.2 cd
30 %	231789.9 cd
20 %	154526.6 cd
10 %	77263.3 cd

Peak intensity: 772632.9 cd

Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	42924 lx
30.0 %	25754 lx
10.0 %	8585 lx
5.0 %	4292 lx
3.0 %	2575 lx

Peak illuminance: 85848 lx

Mounting height: 3 m

Number of c-planes: 36

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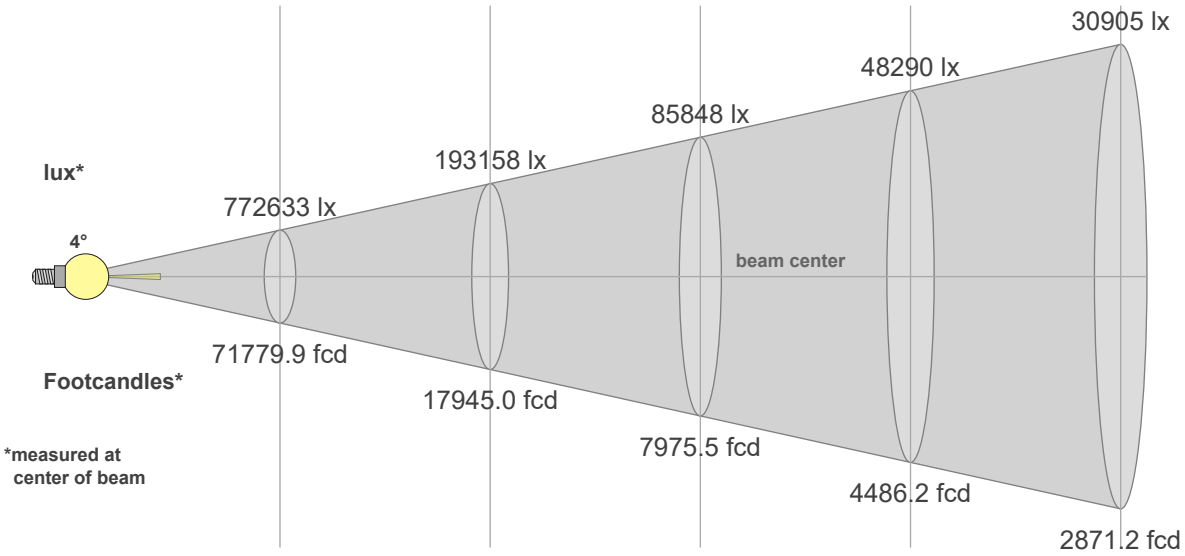
Beam details

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)	0.1 m	0.2 m	0.2 m	0.3 m	0.4 m
Beam width (feet)	0.2 ft	0.5 ft	0.7 ft	1 ft	1.2 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
772633	193158	85848	48290	30905	21462	15768	12072	9539	7726	6385	5366	4572	3942	3434	3018	2673	2385	2140	1932	lux
71779.9	17945	7975.5	4486.2	2871.2	1993.9	1464.9	1121.6	886.2	717.8	593.2	498.5	424.7	366.2	319	280.4	248.4	221.5	198.8	179.4	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
773k	653k	418k	248k	137k	62k	28k	17k	12k	10k	8k	7k	6k	5k	5k	4k	4k	3k	3k	2k	cd
100%	85%	54%	32%	18%	8%	4%	2%	2%	1%	1%	1%	1%	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
773k	653k	418k	248k	137k	62k	28k	17k	12k	10k	8k	7k	6k	5k	5k	4k	4k	3k	3k	2k	cd
100%	85%	54%	32%	18%	8%	4%	2%	2%	1%	1%	1%	1%	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
773k	653k	418k	248k	137k	62k	28k	17k	12k	10k	8k	7k	6k	5k	5k	4k	4k	3k	3k	2k	cd
100%	85%	54%	32%	18%	8%	4%	2%	2%	1%	1%	1%	1%	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
773k	653k	418k	248k	137k	62k	28k	17k	12k	10k	8k	7k	6k	5k	5k	4k	4k	3k	3k	2k	cd
100%	85%	54%	32%	18%	8%	4%	2%	2%	1%	1%	1%	1%	1%	1%	1%	0%	0%	0%	0%	of 0°val

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FL200-G2-XXX-RGBW3083-OM-4-INF-XXXXX-X (W)

Power details

Input power	
Frequency of input power	60.0 Hz
Power feed to light source	0 W
RMS Input voltage feed V,RMS	117.9 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	1.829%

Input power curve

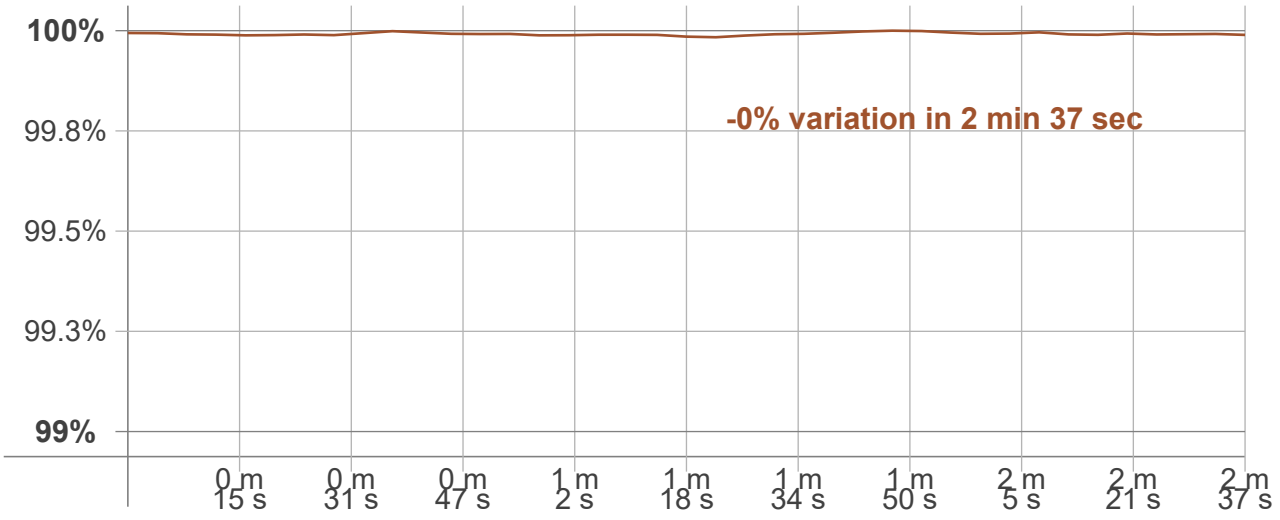
Efficiency

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	9489 lm
Warmup variation	0.0202%	Output change	34.31 lm
		Output end	9489 lm

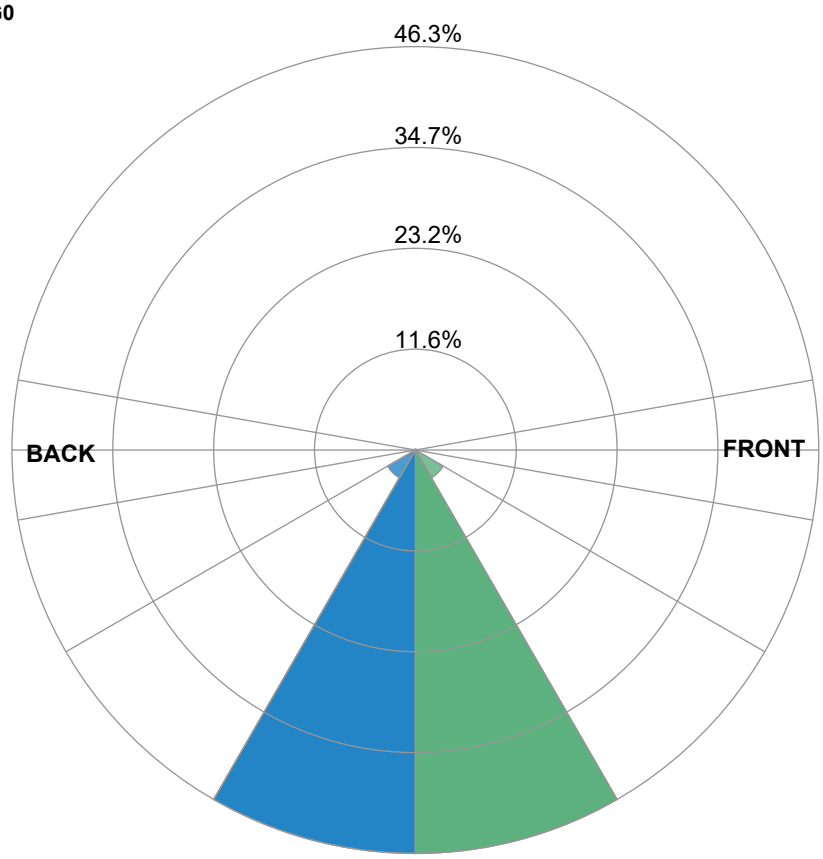
Stabilization Curve



Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-4-INF-XXXXX-X (W)

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

Forward Light			
Low (0-30°)	4390	lm	46.3%
Medium (30-60°)	350	lm	3.69%
High (60-80°)	0.281	lm	0.00296%
Very High (80-90°)	0	lm	0%
Back Light			
Low (0-30°)	4390	lm	46.3%
Medium (30-60°)	350	lm	3.69%
High (60-80°)	0.281	lm	0.00296%
Very High (80-90°)	0	lm	0%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	9489	lm	100%

BUG RATING B4 U0 G0