Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-4L-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.17-7380-VO
Measurement date	2026-03-17

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	0.15°
Input Power	0 W

Electrical Data

Input Power	0 W
Input Voltage	117.1 V DC
Input Current	0.00 A
Power Factor	NaN

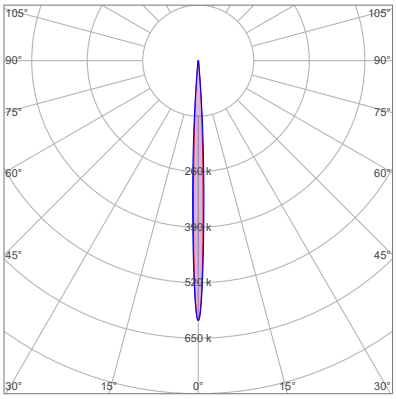
Tested Light Source

Product family	FL200-G2
Luminaire configuration	FL200-G2-XXX-RGBW3083-OM-4L-INF-XXXXX-X (W)
Manufacturer	GVA Lighting, Inc.
Size (width x length x height)	106 mm 0 mm x 430 mm

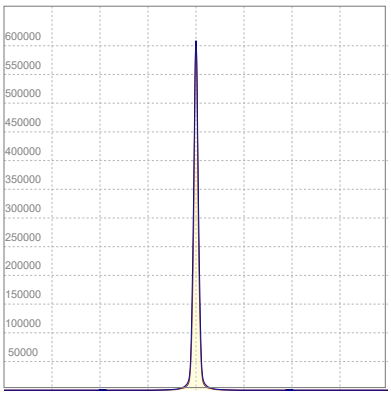
Main Light Measurement Results

Output – Total Lumen	6686 - 0% / 100%
Efficiency	∞ lm/W
Peak Intensity	608030
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	4.2°
Beam Angle (FWHM) | C90/270	5.0°
Field Angle (10%) | C0/180	9.2°Unit: 0-100% of peak intensity
Optical Power	20012 mW
Peak Wavelength	599 nm
Dominant Wavelength	582 nm

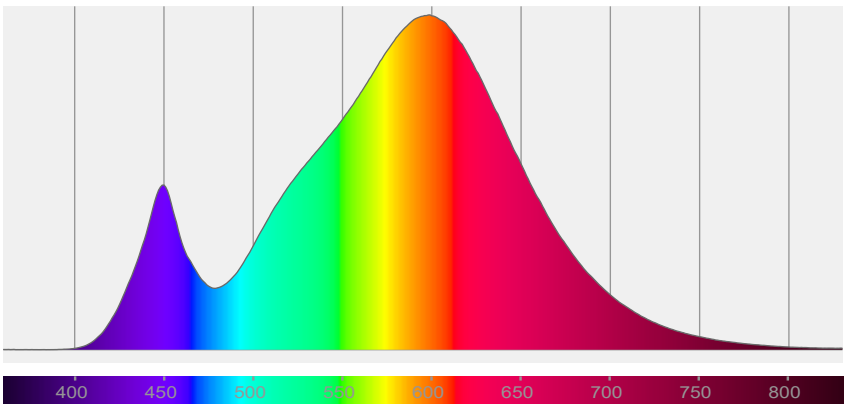
Polar Light Distribution Diagram
Unit: 0-100% of peak intensity



Linear distribution Diagram



Spectral Distribution



Color Temperature

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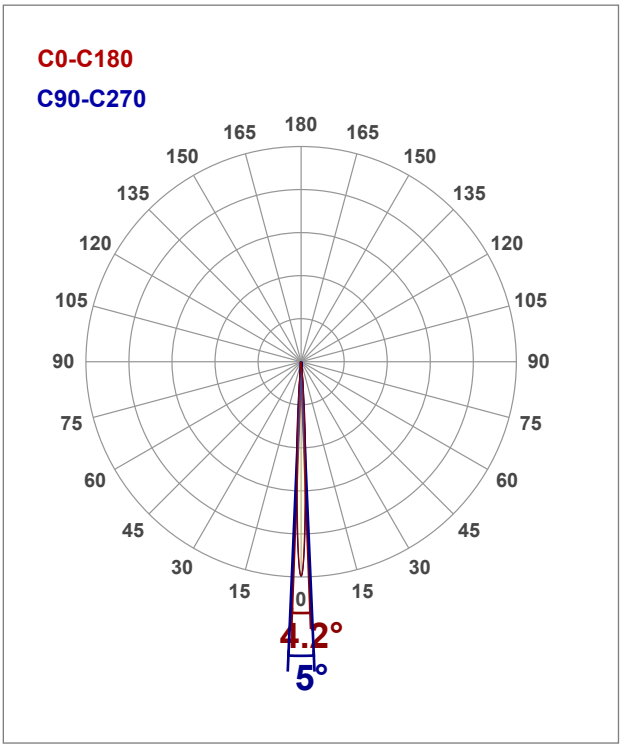
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	6686 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	608030 cd
Beam Angle (50%-FWHM)	4.4°

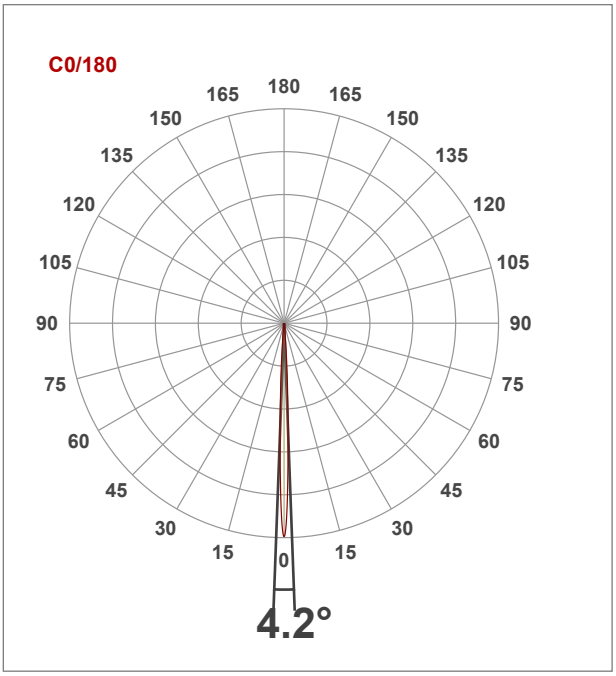
EU Ecodesign parameters

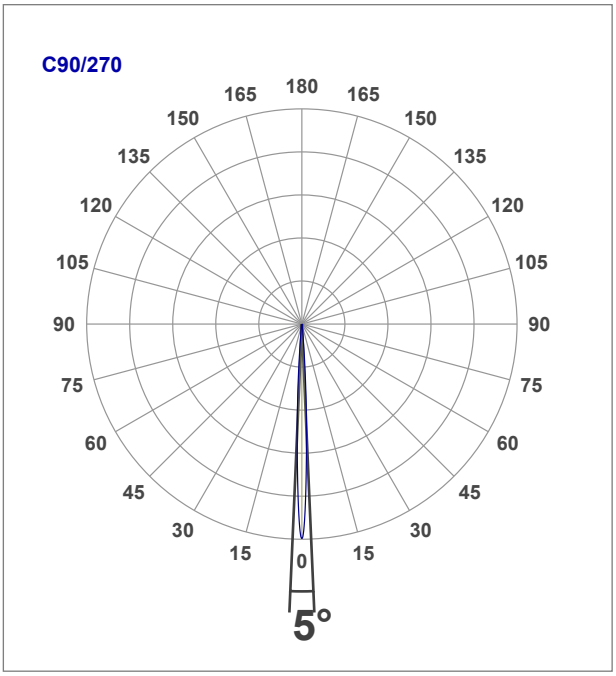
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	6685 lm
Ecodesign Energy Class	A

Intensity Ratio

In 120° cone	100%
In 90° cone	99.98%

Angular Distribution





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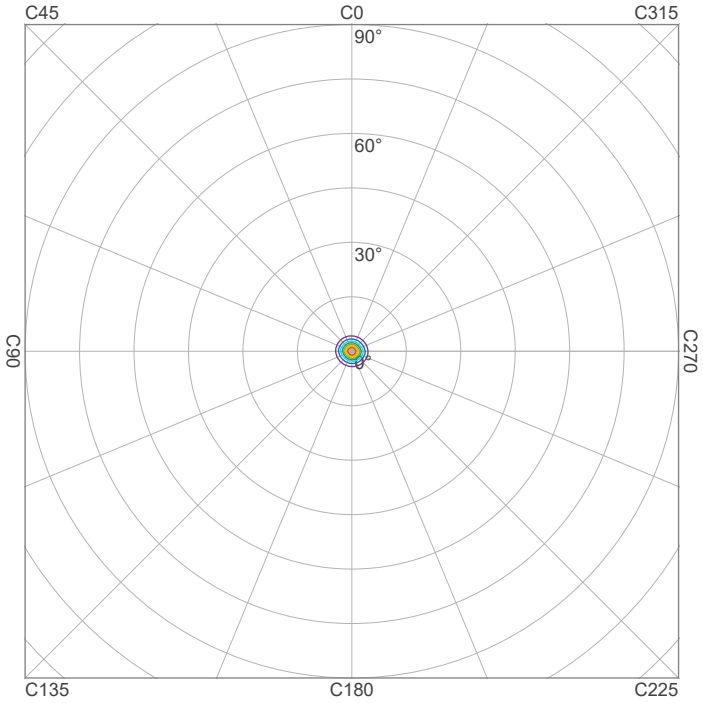
Iso-intensity Diagram (Iso-candela)

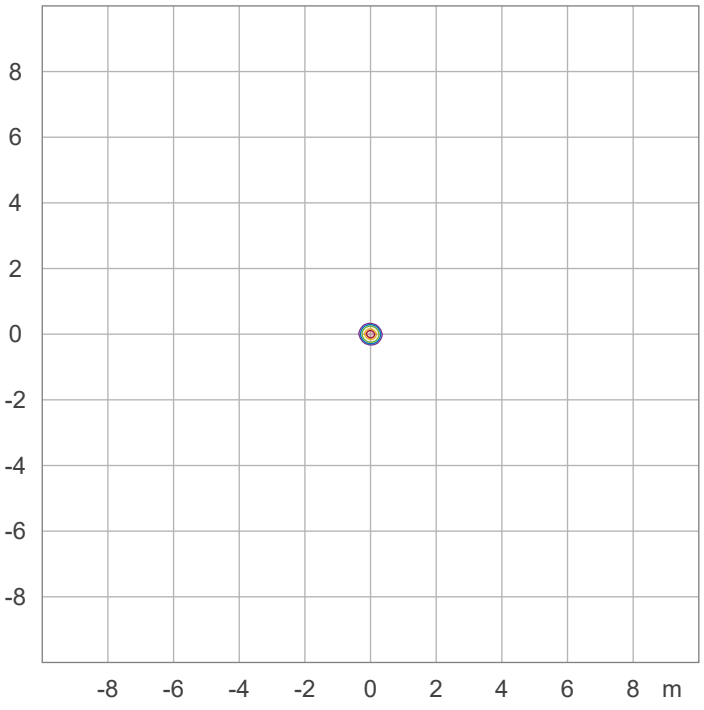


90 %	546489.3 cd
80 %	485768.3 cd
70 %	425047.2 cd
60 %	364326.2 cd
50 %	303605.2 cd
40 %	242884.1 cd
30 %	182163.1 cd
20 %	121442.1 cd
10 %	60721.0 cd

Peak intensity: 607210.3 cd

Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	33734 lx
30.0 %	20240 lx
10.0 %	6747 lx
5.0 %	3373 lx
3.0 %	2024 lx

Peak illuminance: 67468 lx

Mounting height: 3 m

Number of c-planes: 36

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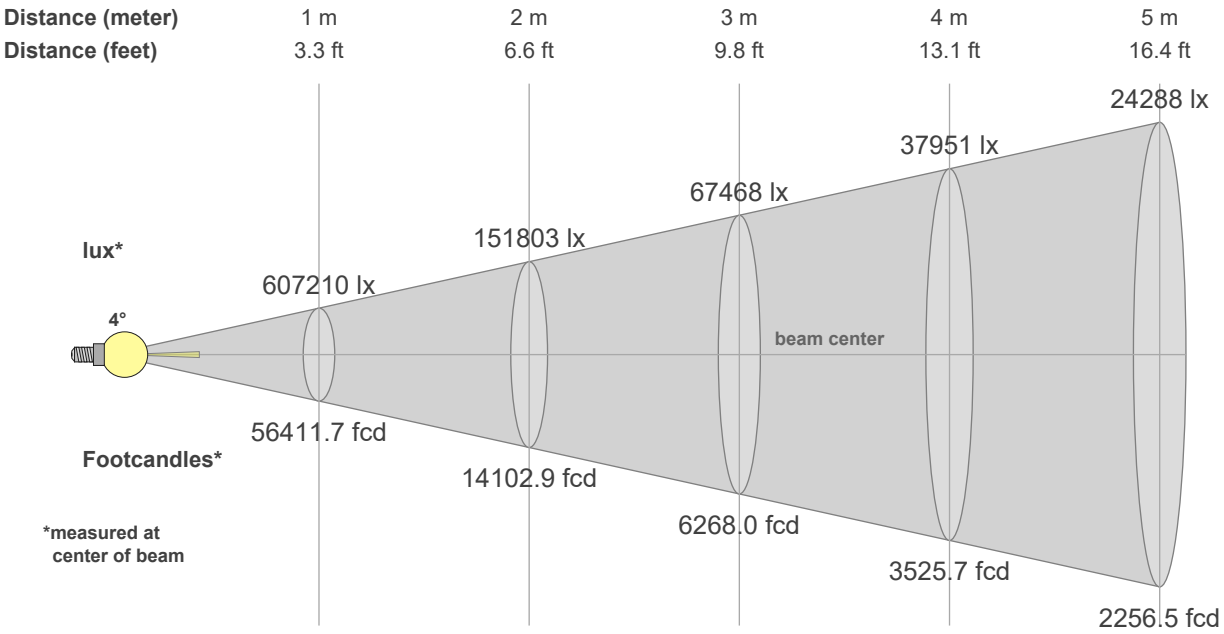
Beam details



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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
607210	151803	67468	37951	24288	16867	12392	9488	7496	6072	5018	4217	3593	3098	2699	2372	2101	1874	1682	1518	lux
56411.7	14102.9	6268	3525.7	2256.5	1567	1151.3	881.4	696.4	564.1	466.2	391.7	333.8	287.8	250.7	220.4	195.2	174.1	156.3	141	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
607k	513k	323k	187k	97k	43k	20k	12k	9k	7k	5k	4k	4k	3k	3k	2k	2k	1k	1k	1k	cd
100%	84%	53%	31%	16%	7%	3%	2%	1%	1%	1%	1%	1%	1%	0%	0%	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
607k	528k	372k	236k	128k	57k	27k	17k	12k	10k	8k	6k	5k	5k	4k	3k	3k	2k	2k	2k	cd
100%	87%	61%	39%	21%	9%	4%	3%	2%	2%	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
607k	513k	323k	187k	97k	43k	20k	12k	9k	7k	5k	4k	4k	3k	3k	2k	2k	1k	1k	1k	cd
100%	84%	53%	31%	16%	7%	3%	2%	1%	1%	1%	1%	1%	1%	0%	0%	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
607k	528k	372k	236k	128k	57k	27k	17k	12k	10k	8k	6k	5k	5k	4k	3k	3k	2k	2k	2k	cd
100%	87%	61%	39%	21%	9%	4%	3%	2%	2%	1%	1%	1%	1%	1%	1%	0%	0%	0%	0%	of 0°val

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Power details

Input power	
Frequency of input power	60.0 Hz
Power feed to light source	0 W
RMS Input voltage feed V,RMS	117.1 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	1.797%

Input power curve

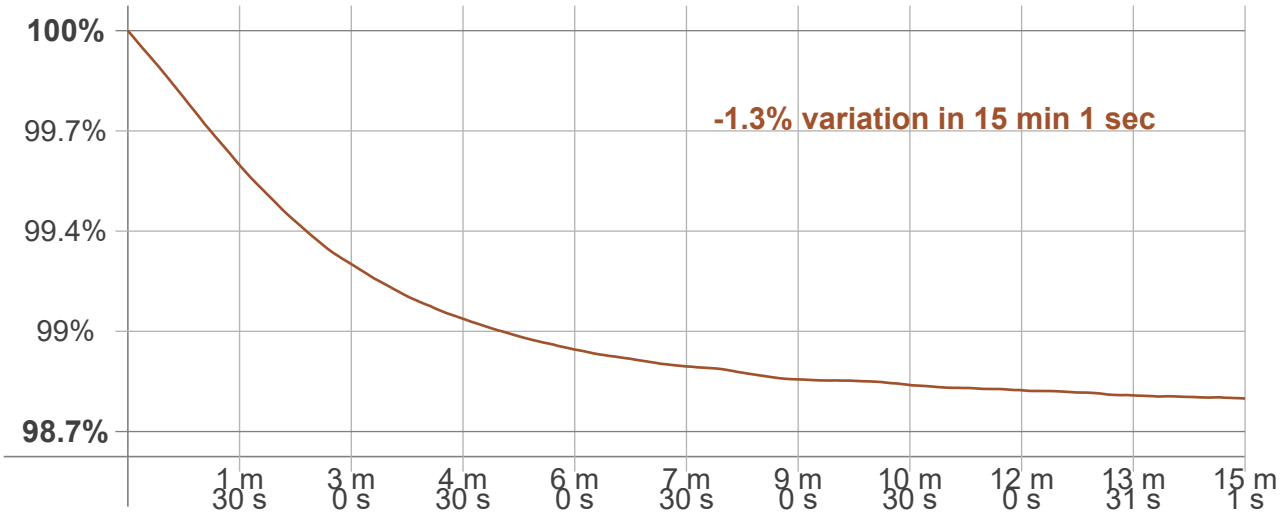
Efficiency

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	Lamp stabilized in 15 min 1 sec	Output start	6769 lm
Warmup variation	-1.2706%	Output change	-82.508 lm
		Output end	6686 lm

Stabilization Curve



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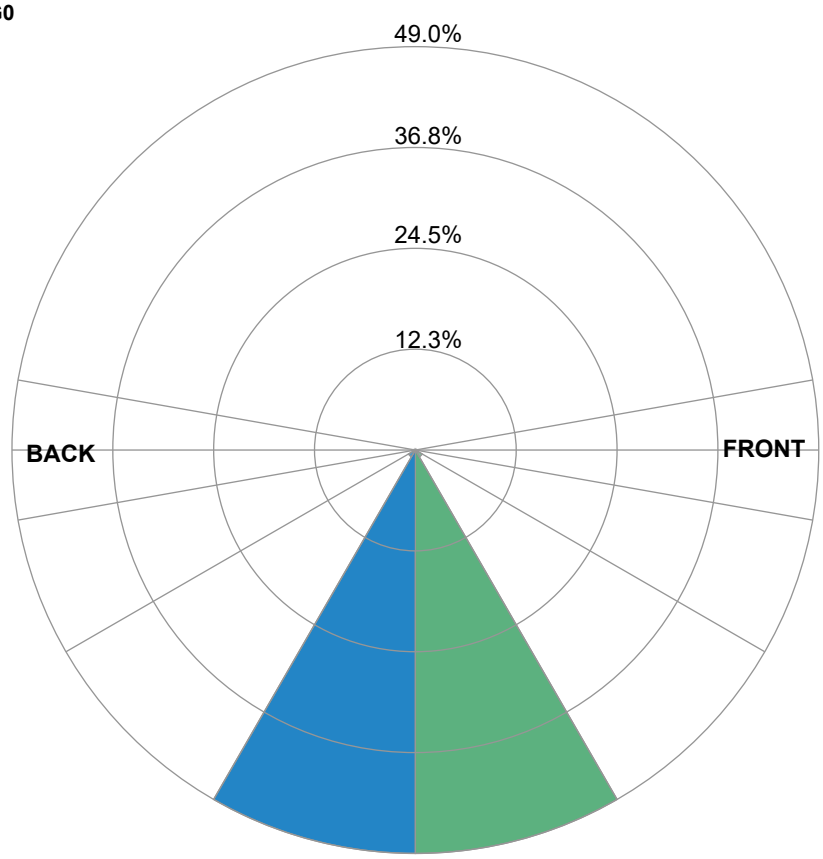
FL200-G2-XXX-RGBW3083-OM-4L-INF-XXXXX-X (W)

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

Forward Light			
Low (0-30°)	3280	lm	49.0%
Medium (30-60°)	64.4	lm	0.963%
High (60-80°)	0	lm	0%
Very High (80-90°)	0	lm	0%
Back Light			
Low (0-30°)	3280	lm	49.0%
Medium (30-60°)	64.4	lm	0.963%
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	6686	lm	100%

BUG RATING B4 U0 G0