Photometric Test Report

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

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.17-7366-VO
Measurement date	2026-03-17

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	0.36°
Input Power	0 W

Electrical Data

Input Power	0 W
Input Voltage	117.3 V DC
Input Current	0.00 A
Power Factor	NaN

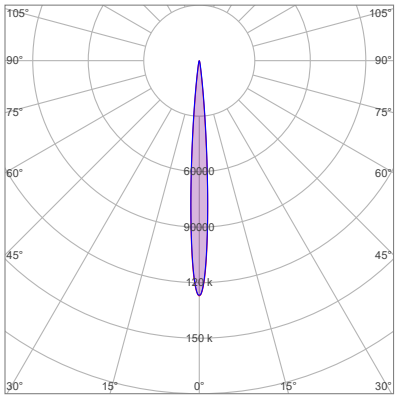
Tested Light Source

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

Main Light Measurement Results

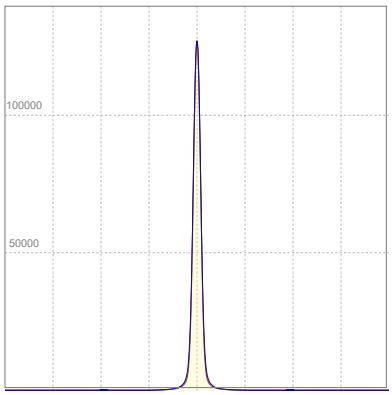
Output – Total Lumen	3431 - 0% / 100%
Efficiency	∞ lm/W
Peak Intensity	126950
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	7.9°
Beam Angle (FWHM) | C90/270	8.0°
Field Angle (10%) | C0/180	14.3°Unit: 0-100% of peak intensity
Optical Power	7017 mW
Peak Wavelength	523 nm
Dominant Wavelength	529 nm

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

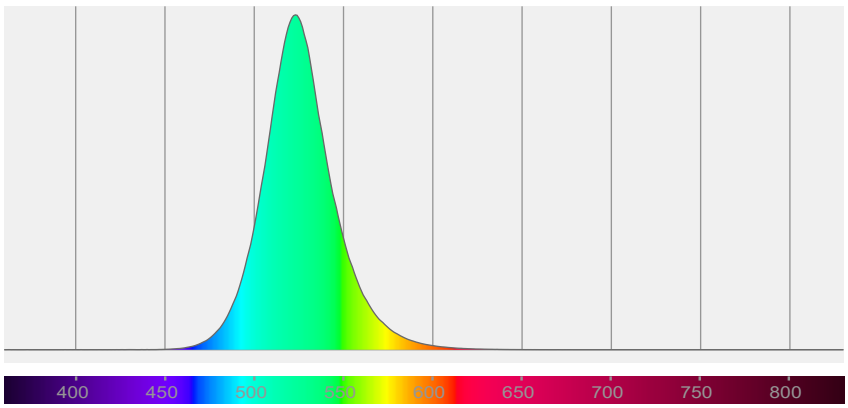


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

NaN K

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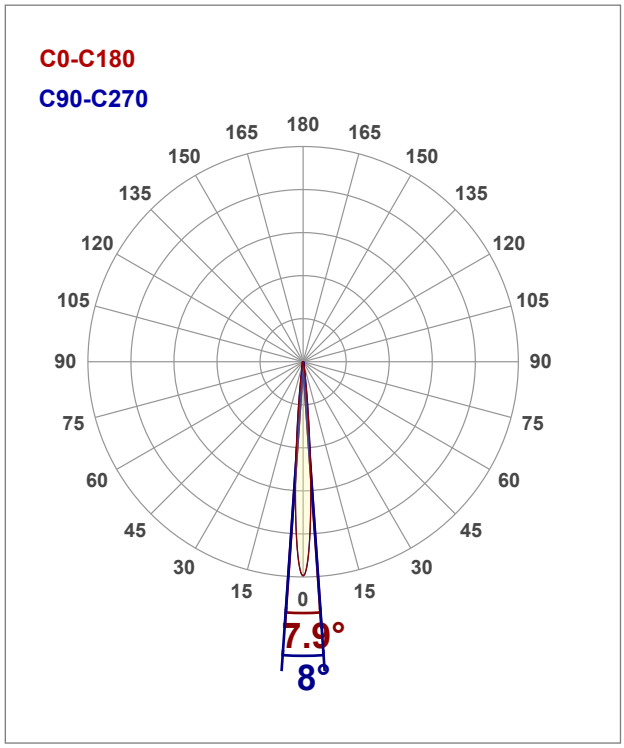
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	3431 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	126950 cd
Beam Angle (50%-FWHM)	7.9°

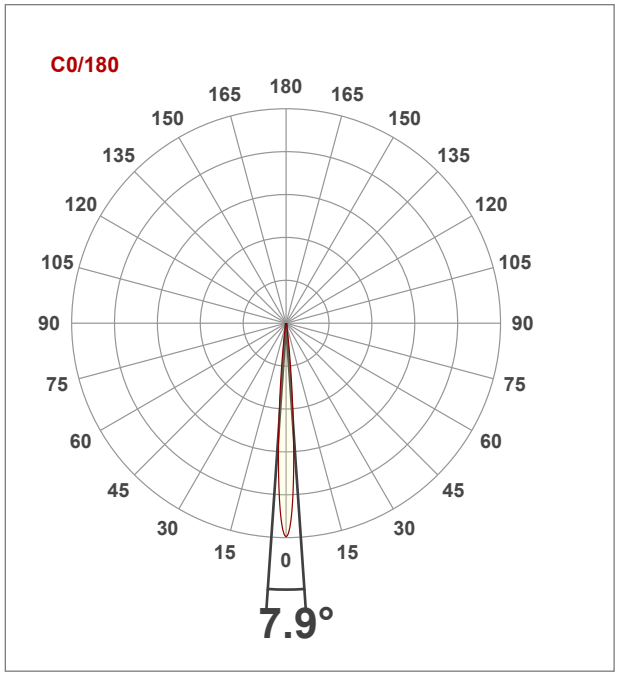
EU Ecodesign parameters

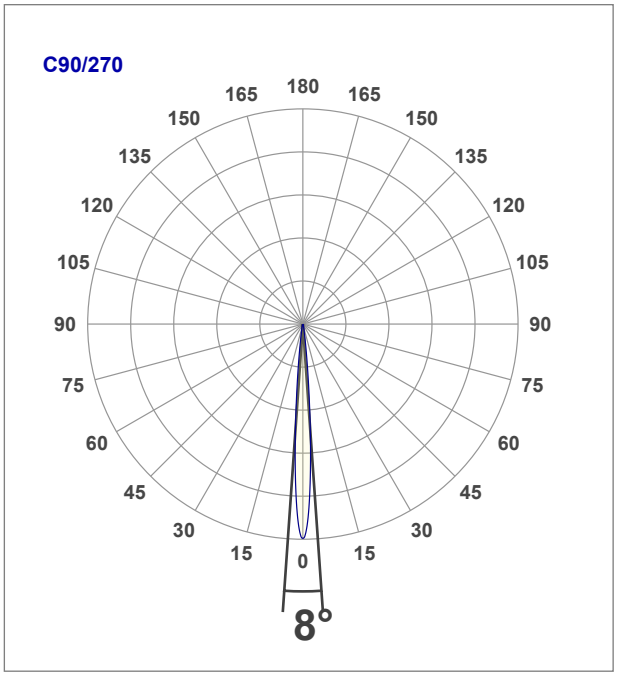
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	3430 lm
Ecodesign Energy Class	A

Intensity Ratio

In 120° cone	100%
In 90° cone	99.95%

Angular Distribution





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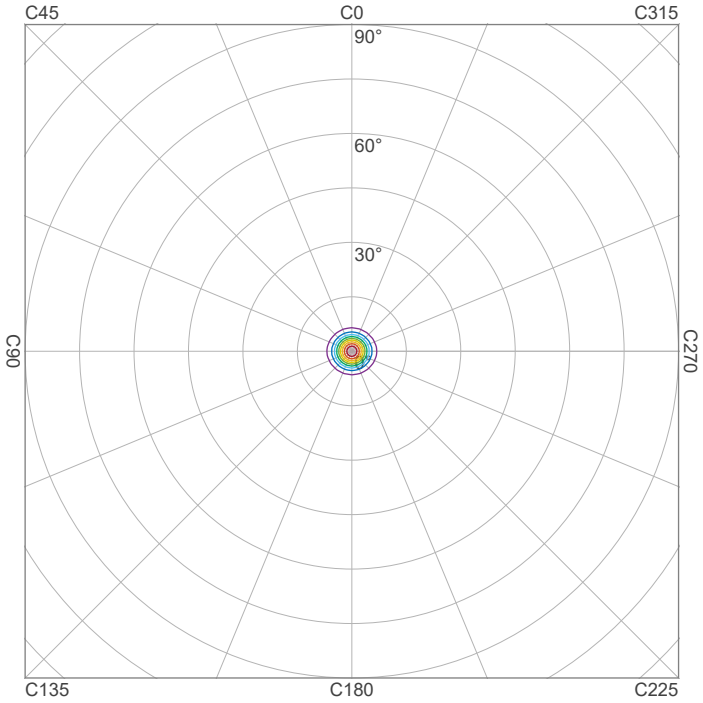
Iso-intensity Diagram (Iso-candela)

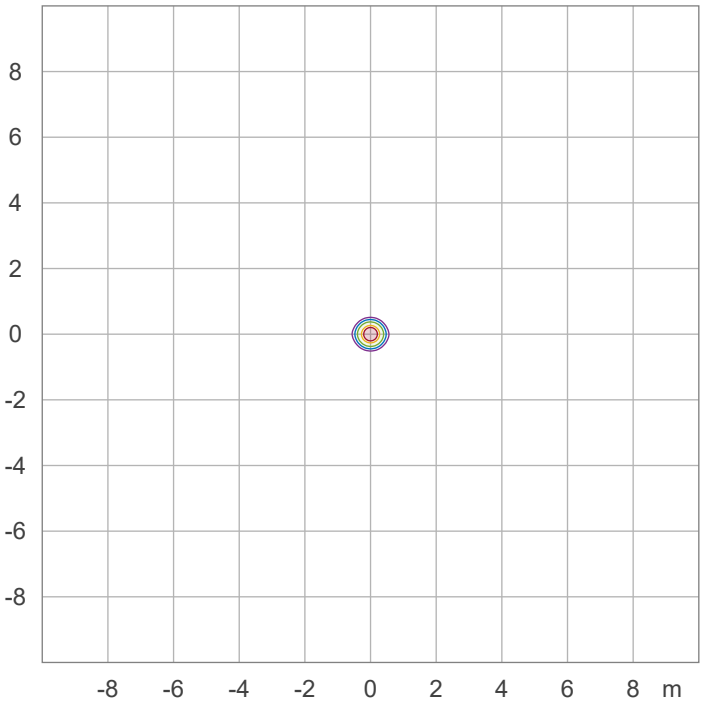


90 %	114021.1 cd
80 %	101352.1 cd
70 %	88683.1 cd
60 %	76014.1 cd
50 %	63345.0 cd
40 %	50676.0 cd
30 %	38007.0 cd
20 %	25338.0 cd
10 %	12669.0 cd

Peak intensity: 126690.1 cd

Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	7038 lx
30.0 %	4223 lx
10.0 %	1408 lx
5.0 %	704 lx
3.0 %	422 lx

Peak illuminance: 14077 lx

Mounting height: 3 m

Number of c-planes: 36

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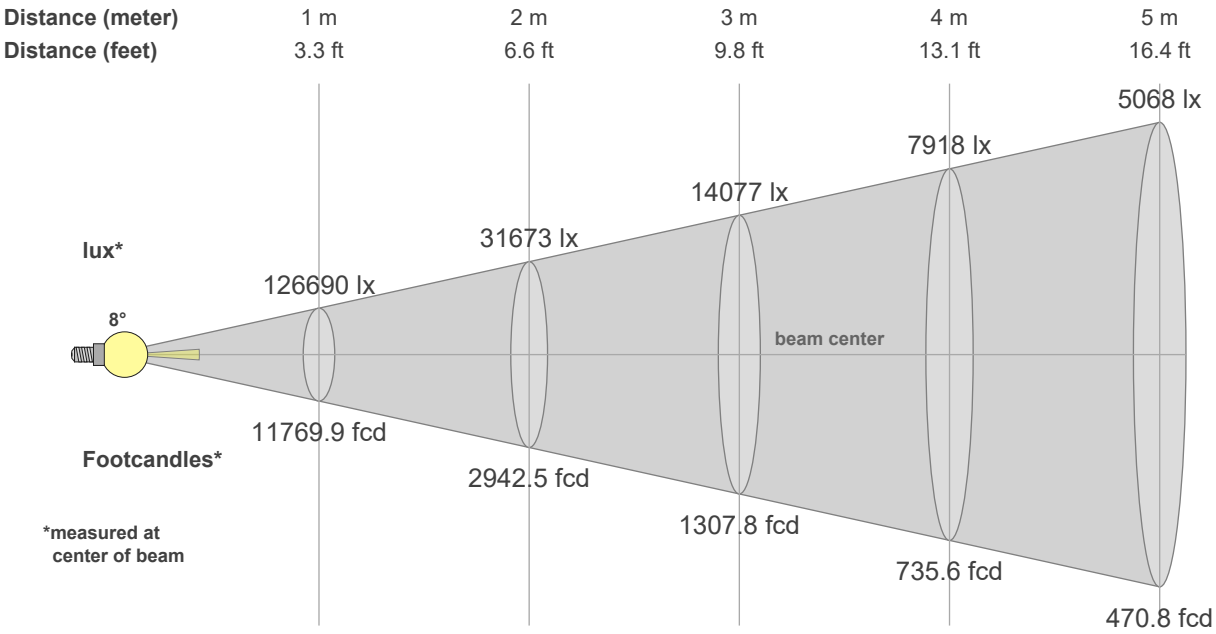
Beam details



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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
126690	31673	14077	7918	5068	3519	2586	1980	1564	1267	1047	880	750	646	563	495	438	391	351	317	lux
11769.9	2942.5	1307.8	735.6	470.8	326.9	240.2	183.9	145.3	117.7	97.3	81.7	69.6	60.1	52.3	46	40.7	36.3	32.6	29.4	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
127k	122k	108k	86k	62k	40k	24k	14k	8k	5k	4k	3k	2k	2k	1k	1k	1k	1k	1k	1k	cd
100%	96%	85%	68%	49%	32%	19%	11%	6%	4%	3%	2%	2%	1%	1%	1%	1%	1%	1%	1%	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
127k	122k	107k	86k	63k	42k	27k	17k	10k	7k	5k	4k	3k	2k	2k	2k	1k	1k	1k	1k	cd
100%	96%	84%	68%	50%	33%	21%	13%	8%	5%	4%	3%	2%	2%	1%	1%	1%	1%	1%	1%	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
127k	122k	108k	86k	62k	40k	24k	14k	8k	5k	4k	3k	2k	2k	1k	1k	1k	1k	1k	1k	cd
100%	96%	85%	68%	49%	32%	19%	11%	6%	4%	3%	2%	2%	1%	1%	1%	1%	1%	1%	1%	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
127k	122k	107k	86k	63k	42k	27k	17k	10k	7k	5k	4k	3k	2k	2k	2k	1k	1k	1k	1k	cd
100%	96%	84%	68%	50%	33%	21%	13%	8%	5%	4%	3%	2%	2%	1%	1%	1%	1%	1%	1%	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	117.3 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	1.607%

Input power curve

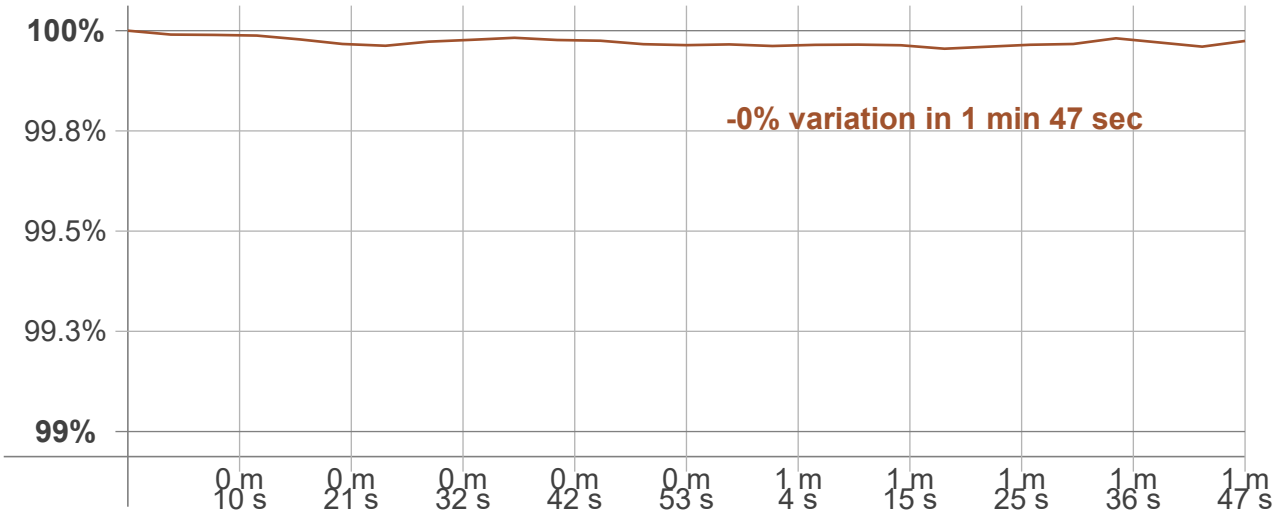
Efficiency

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	3432 lm
Warmup variation	-0.0492%	Output change	-0.6761 lm
		Output end	3431 lm

Stabilization Curve



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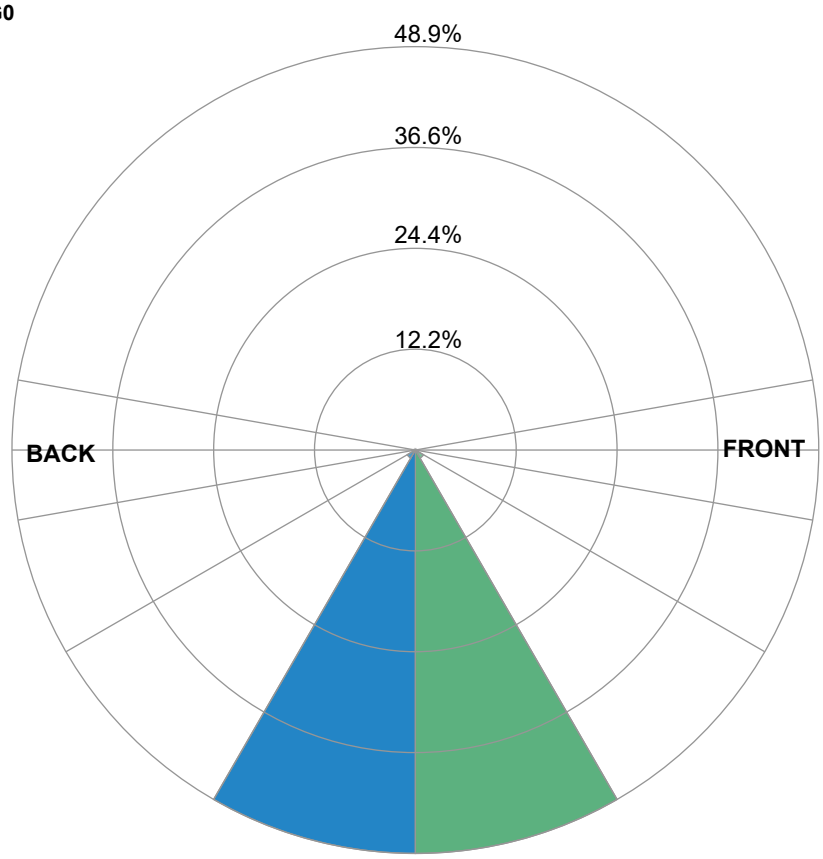
FL200-G2-XXX-RGBW3083-OM-7L-INF-XXXXX-X (G)

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

Forward Light			
Low (0-30°)	1680	lm	48.9%
Medium (30-60°)	39.1	lm	1.14%
High (60-80°)	0	lm	0%
Very High (80-90°)	0	lm	0%
Back Light			
Low (0-30°)	1680	lm	48.9%
Medium (30-60°)	39.1	lm	1.14%
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	3431	lm	100%

BUG RATING B3 U0 G0