Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-7-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.16-7343-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	117.9 V DC
Input Current	0.00 A
Power Factor	NaN

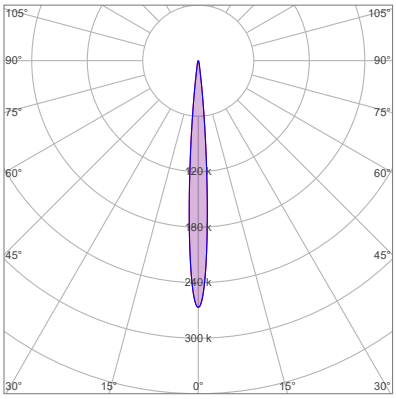
Tested Light Source

Product family	FL200-G2
Luminaire configuration	FL200-G2-XXX-RGBW3083-OM-7-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

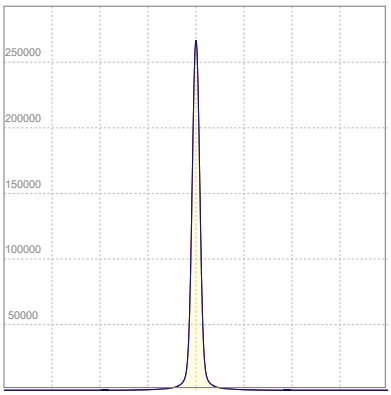
Output – Total Lumen	9138 - 0% / 100%
Efficiency	∞ lm/W
Peak Intensity	266082
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	8.1°
Beam Angle (FWHM) | C90/270	8.1°
Field Angle (10%) | C0/180	15.3°Unit: 0-100% of peak intensity
Optical Power	27344 mW
Peak Wavelength	599 nm
Dominant Wavelength	582 nm

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

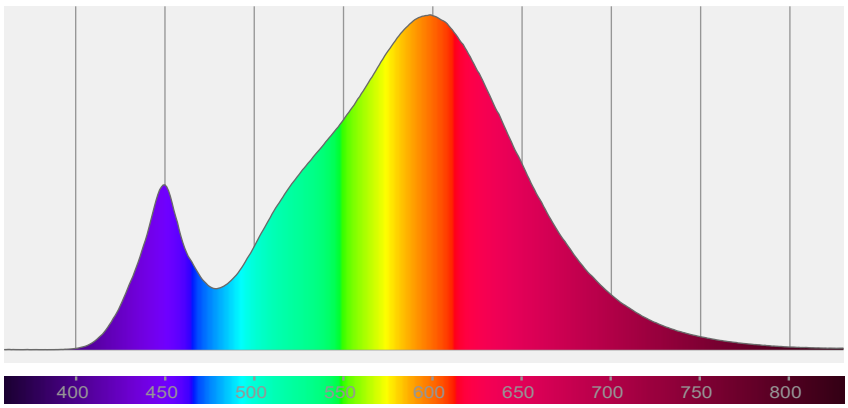


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

3188 K

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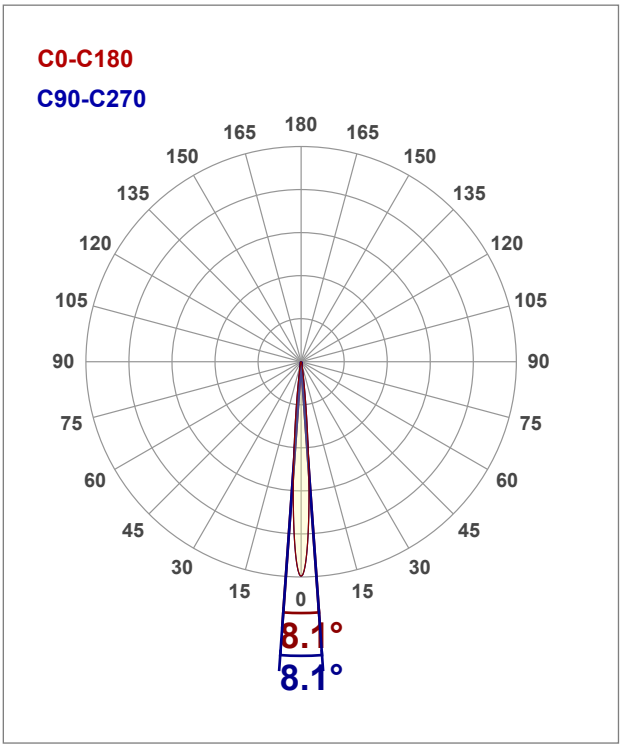
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	9138 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	266082 cd
Beam Angle (50%-FWHM)	8.1°

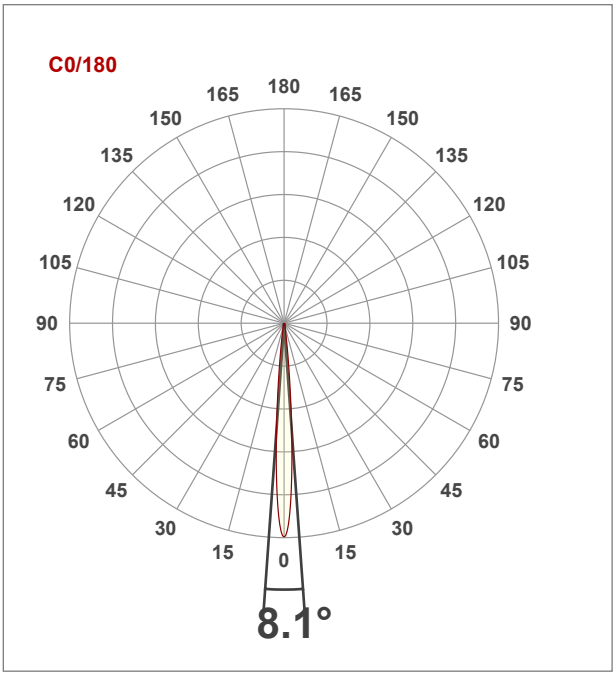
EU Ecodesign parameters

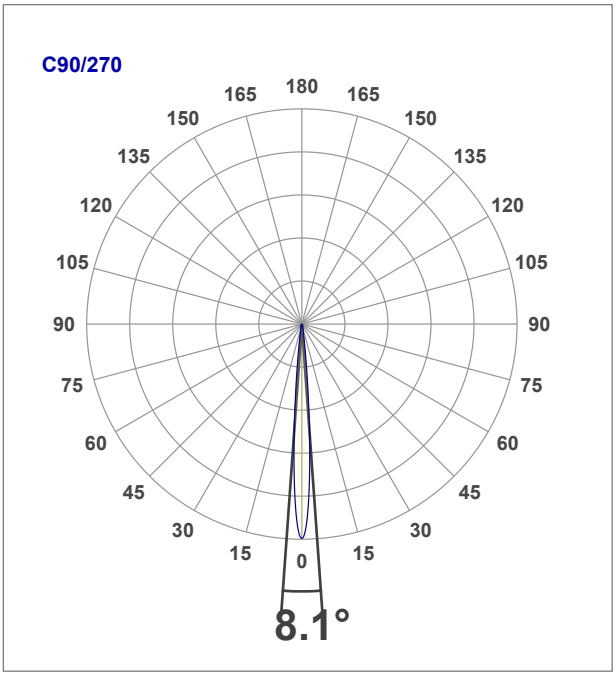
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	8770 lm
Ecodesign Energy Class	A

Intensity Ratio

In 120° cone	99.27%
In 90° cone	95.97%

Angular Distribution





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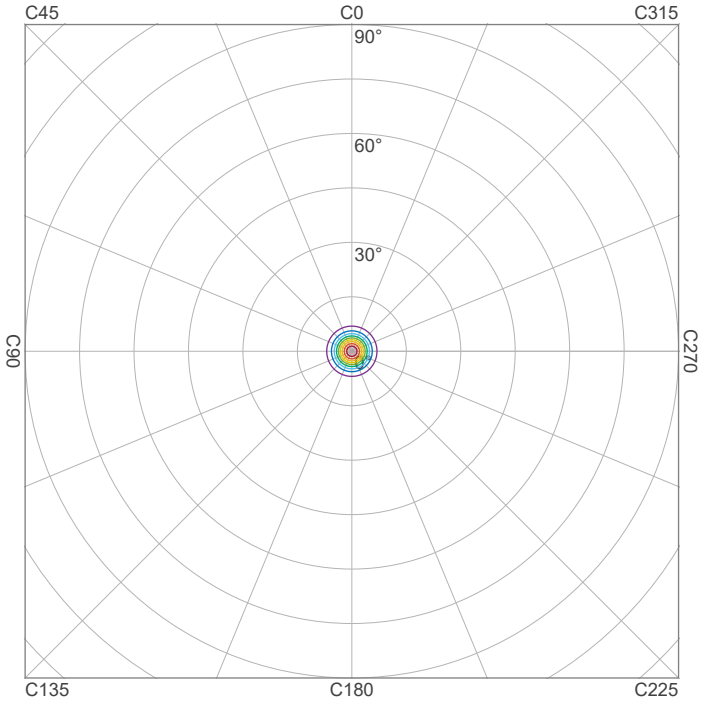
Iso-intensity Diagram (Iso-candela)

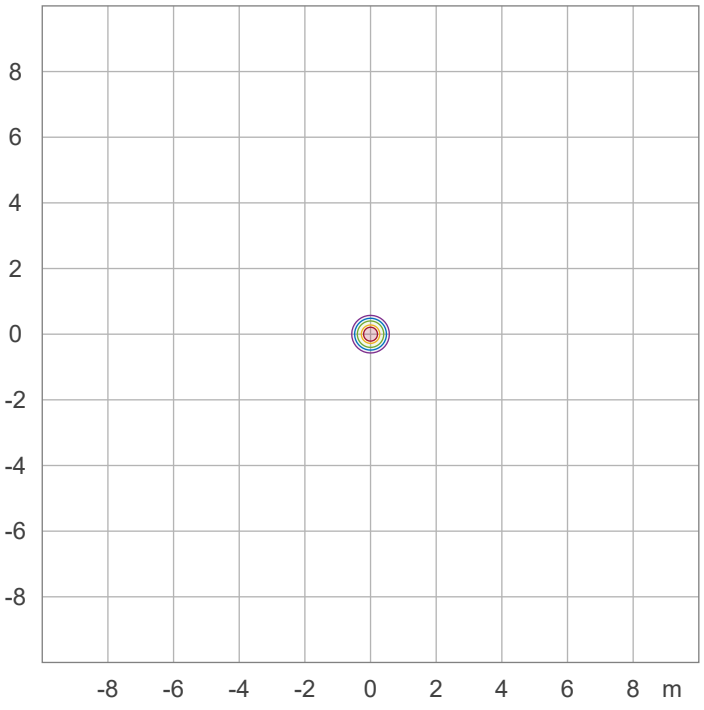


90 %	239474.2 cd
80 %	212866.0 cd
70 %	186257.7 cd
60 %	159649.5 cd
50 %	133041.2 cd
40 %	106433.0 cd
30 %	79824.7 cd
20 %	53216.5 cd
10 %	26608.3 cd

Peak intensity: 266082.5 cd

Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	14782 lx
30.0 %	8869 lx
10.0 %	2956 lx
5.0 %	1478 lx
3.0 %	887 lx

Peak illuminance: 29565 lx

Mounting height: 3 m

Number of c-planes: 36

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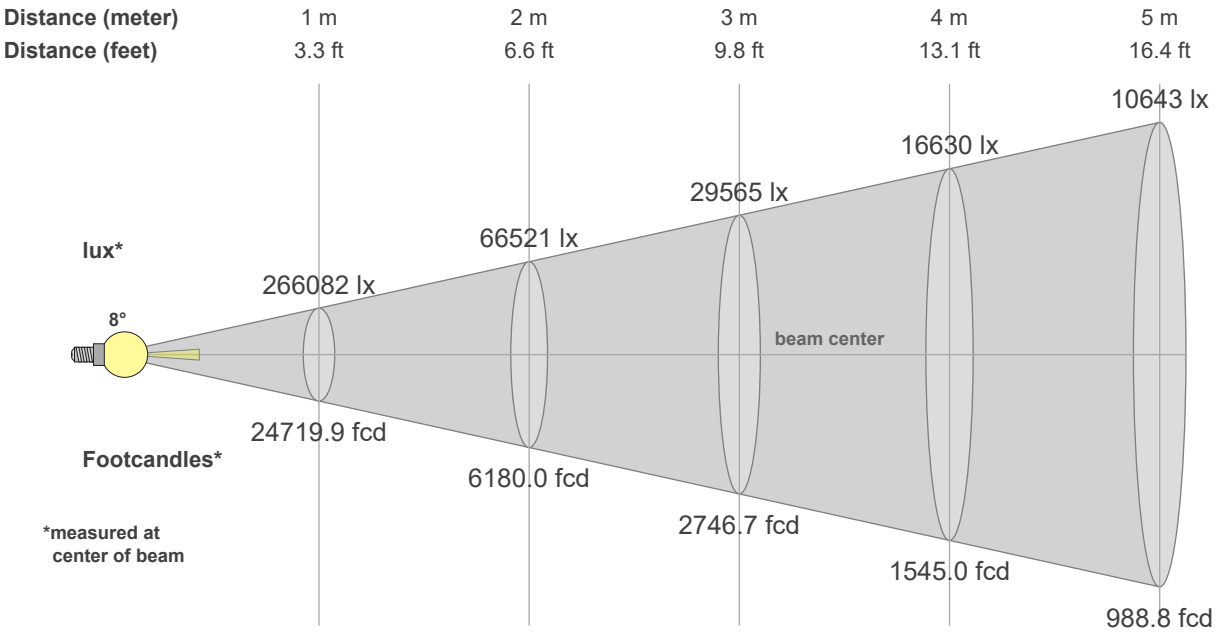
Beam details



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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
266082	66521	29565	16630	10643	7391	5430	4158	3285	2661	2199	1848	1574	1358	1183	1039	921	821	737	665	lux
24719.9	6180	2746.7	1545	988.8	686.7	504.5	386.2	305.2	247.2	204.3	171.7	146.3	126.1	109.9	96.6	85.5	76.3	68.5	61.8	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
266k	256k	227k	184k	136k	93k	59k	36k	22k	15k	10k	8k	6k	5k	5k	4k	4k	3k	3k	2k	cd
100%	96%	85%	69%	51%	35%	22%	14%	8%	5%	4%	3%	2%	2%	2%	2%	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
266k	256k	227k	184k	136k	93k	59k	36k	22k	15k	10k	8k	6k	5k	5k	4k	4k	3k	3k	2k	cd
100%	96%	85%	69%	51%	35%	22%	14%	8%	5%	4%	3%	2%	2%	2%	2%	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
266k	256k	227k	184k	136k	93k	59k	36k	22k	15k	10k	8k	6k	5k	5k	4k	4k	3k	3k	2k	cd
100%	96%	85%	69%	51%	35%	22%	14%	8%	5%	4%	3%	2%	2%	2%	2%	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
266k	256k	227k	184k	136k	93k	59k	36k	22k	15k	10k	8k	6k	5k	5k	4k	4k	3k	3k	2k	cd
100%	96%	85%	69%	51%	35%	22%	14%	8%	5%	4%	3%	2%	2%	2%	2%	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	117.9 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	1.803%

Input power curve

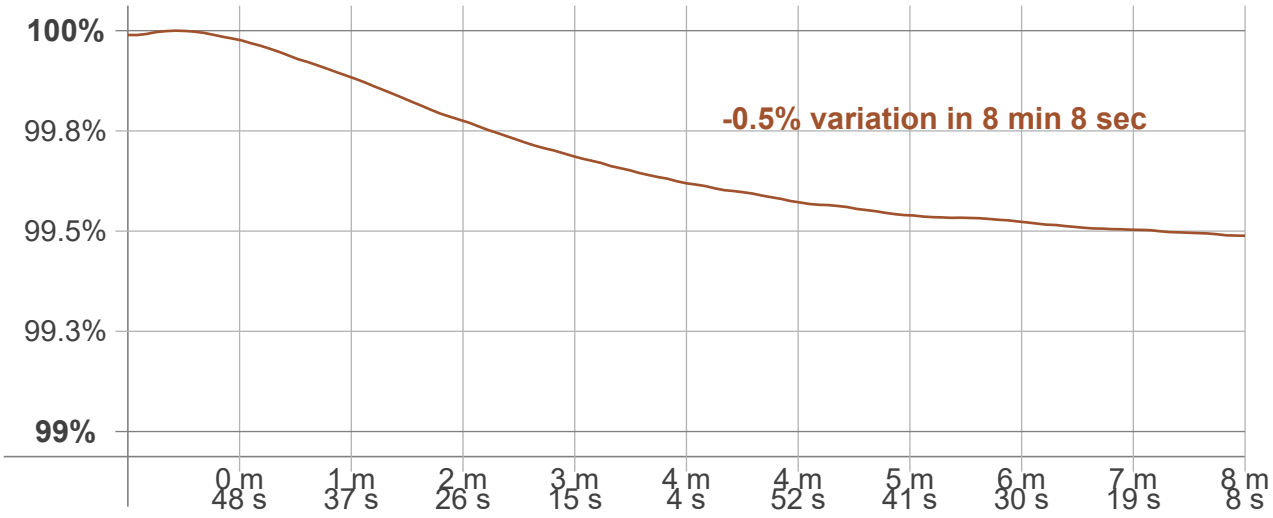
Efficiency

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	9183 lm
Warmup variation	-0.5191%	Output change	-45.442 lm
		Output end	9138 lm

Stabilization Curve



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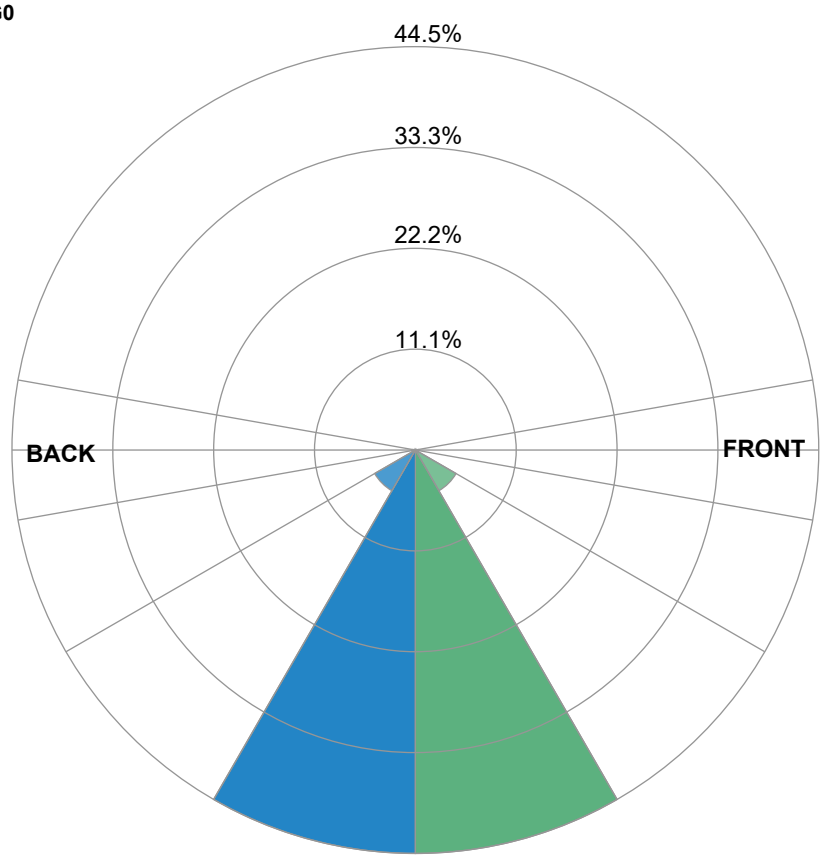
FL200-G2-XXX-RGBW3083-OM-7-INF-XXXXX-X (W)

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

Forward Light			
Low (0-30°)	4060	lm	44.5%
Medium (30-60°)	473	lm	5.18%
High (60-80°)	33.6	lm	0.368%
Very High (80-90°)	0	lm	0%
Back Light			
Low (0-30°)	4060	lm	44.5%
Medium (30-60°)	473	lm	5.18%
High (60-80°)	33.6	lm	0.368%
Very High (80-90°)	0	lm	0%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	9138	lm	100%

BUG RATING B4 U0 G0