Photometric Test Report

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

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.16-7329-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

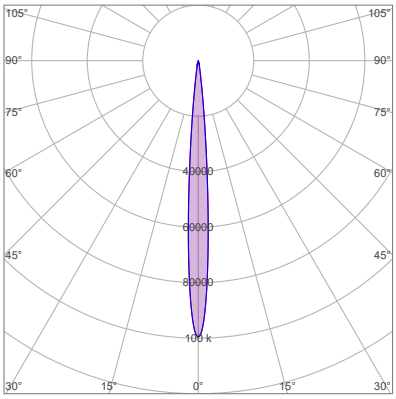
Tested Light Source

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

Main Light Measurement Results

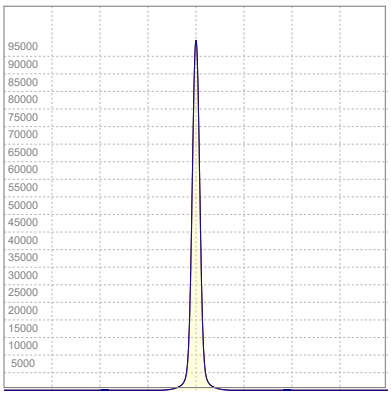
Output – Total Lumen	2664 - 0% / 100%
Efficiency	∞ lm/W
Peak Intensity	99311
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	8.0°
Beam Angle (FWHM) | C90/270	8.0°
Field Angle (10%) | C0/180	14.8°Unit: 0-100% of peak intensity
Optical Power	18212 mW
Peak Wavelength	642 nm
Dominant Wavelength	626 nm

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

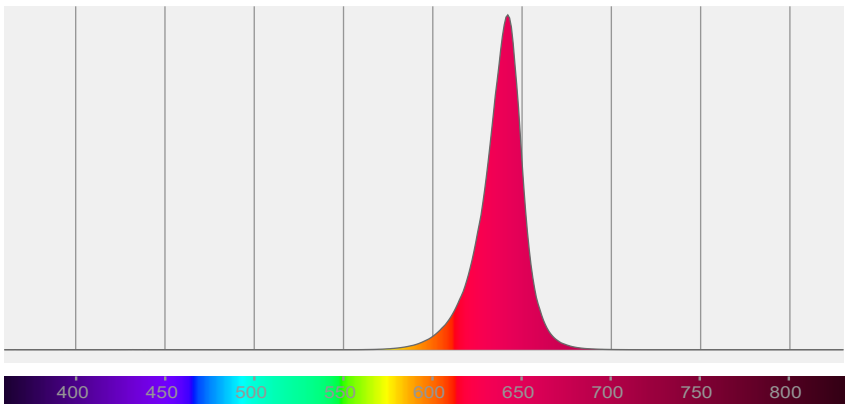


C0 - C180 η = 100%
C90 - C270

Linear distribution Diagram



Spectral Distribution



Color Temperature

NaN K

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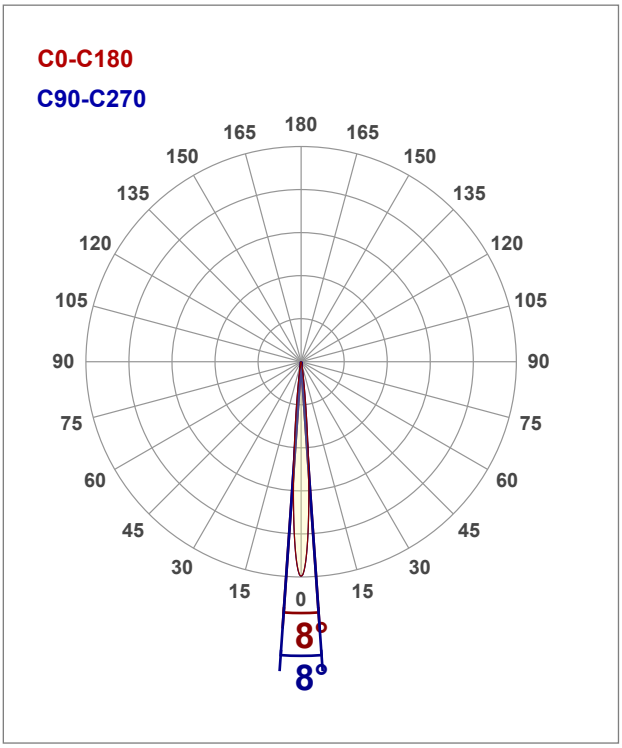
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	2664 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	99311 cd
Beam Angle (50%-FWHM)	8.0°

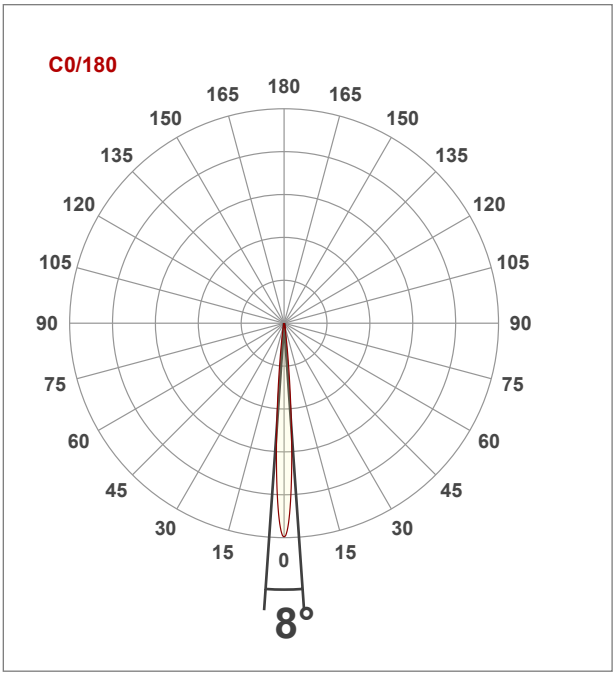
EU Ecodesign parameters

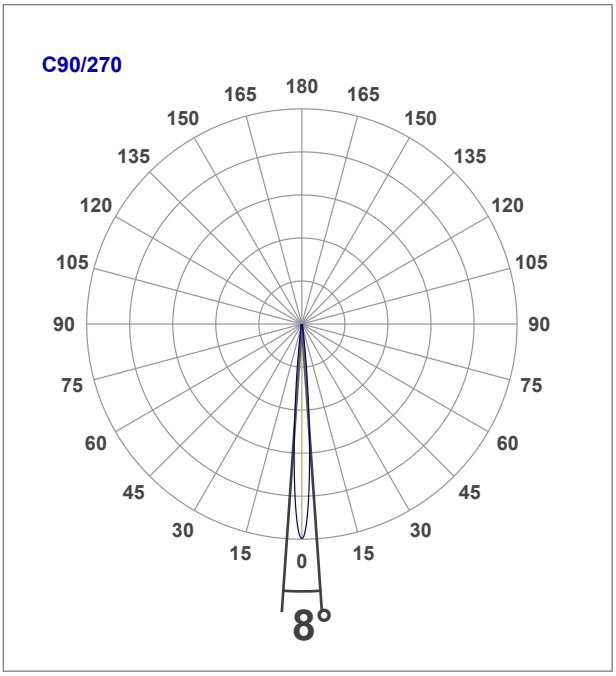
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	2664 lm
Ecodesign Energy Class	A

Intensity Ratio

In 120° cone	100%
In 90° cone	100%

Angular Distribution





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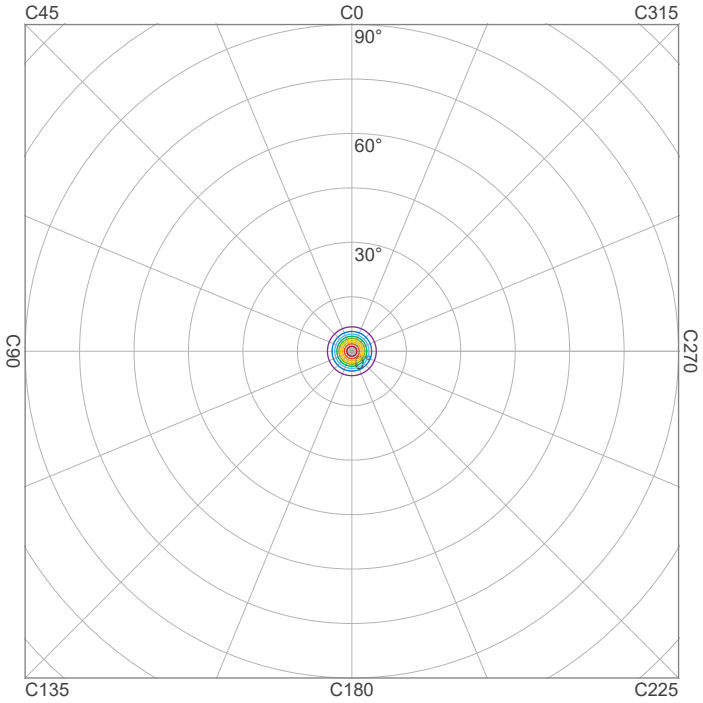
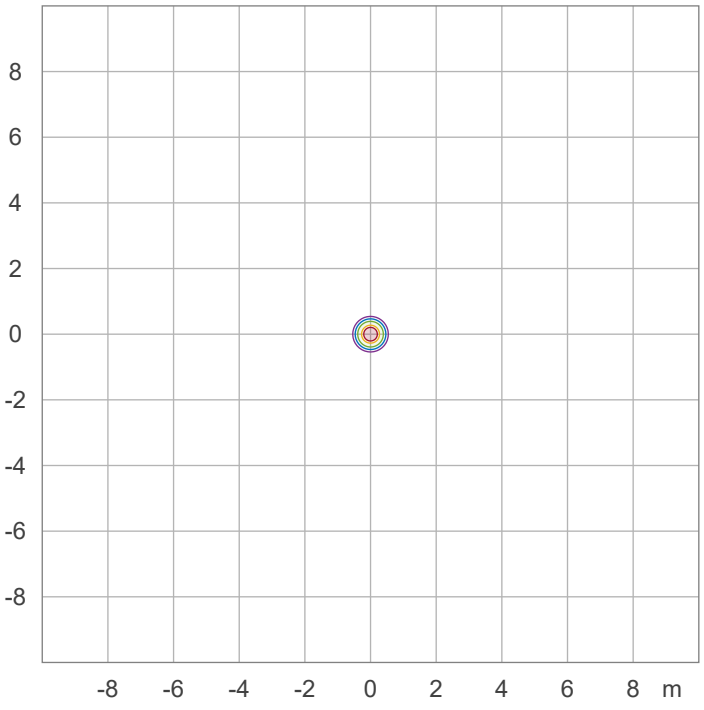
Iso-intensity Diagram (Iso-candela)



90 %	89379.8 cd
80 %	79448.8 cd
70 %	69517.7 cd
60 %	59586.6 cd
50 %	49655.5 cd
40 %	39724.4 cd
30 %	29793.3 cd
20 %	19862.2 cd
10 %	9931.1 cd

Peak intensity: 99310.9 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	5517 lx
30.0 %	3310 lx
10.0 %	1103 lx
5.0 %	552 lx
3.0 %	331 lx

Peak illuminance: 11035 lx
Mounting height: 3 m
Number of c-planes: 36

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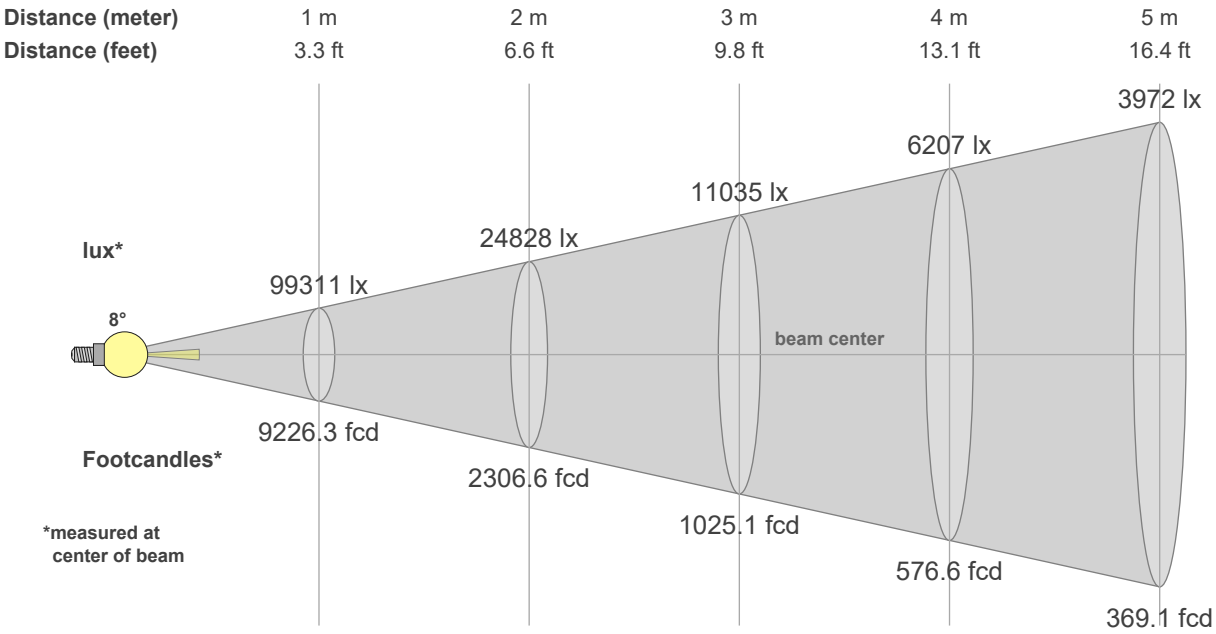
Beam details



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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
99311	24828	11035	6207	3972	2759	2027	1552	1226	993	821	690	588	507	441	388	344	307	275	248	lux
9226.3	2306.6	1025.1	576.6	369.1	256.3	188.3	144.2	113.9	92.3	76.3	64.1	54.6	47.1	41	36	31.9	28.5	25.6	23.1	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
99.3k	95.5k	84.0k	67.5k	49.4k	32.9k	20.4k	12.2k	7.4k	4.7k	3.3k	2.5k	2.0k	1.6k	1.3k	1.1k	1.0k	0.8k	0.7k	0.6k	cd
100%	96%	85%	68%	50%	33%	21%	12%	7%	5%	3%	3%	2%	2%	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
99.3k	95.5k	84.0k	67.5k	49.4k	32.9k	20.4k	12.2k	7.4k	4.7k	3.3k	2.5k	2.0k	1.6k	1.3k	1.1k	1.0k	0.8k	0.7k	0.6k	cd
100%	96%	85%	68%	50%	33%	21%	12%	7%	5%	3%	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
99.3k	95.5k	84.0k	67.5k	49.4k	32.9k	20.4k	12.2k	7.4k	4.7k	3.3k	2.5k	2.0k	1.6k	1.3k	1.1k	1.0k	0.8k	0.7k	0.6k	cd
100%	96%	85%	68%	50%	33%	21%	12%	7%	5%	3%	3%	2%	2%	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
99.3k	95.5k	84.0k	67.5k	49.4k	32.9k	20.4k	12.2k	7.4k	4.7k	3.3k	2.5k	2.0k	1.6k	1.3k	1.1k	1.0k	0.8k	0.7k	0.6k	cd
100%	96%	85%	68%	50%	33%	21%	12%	7%	5%	3%	3%	2%	2%	1%	1%	1%	1%	1%	1%	of 0°val

Photometric Test Report

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

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	1.769%

Input power curve

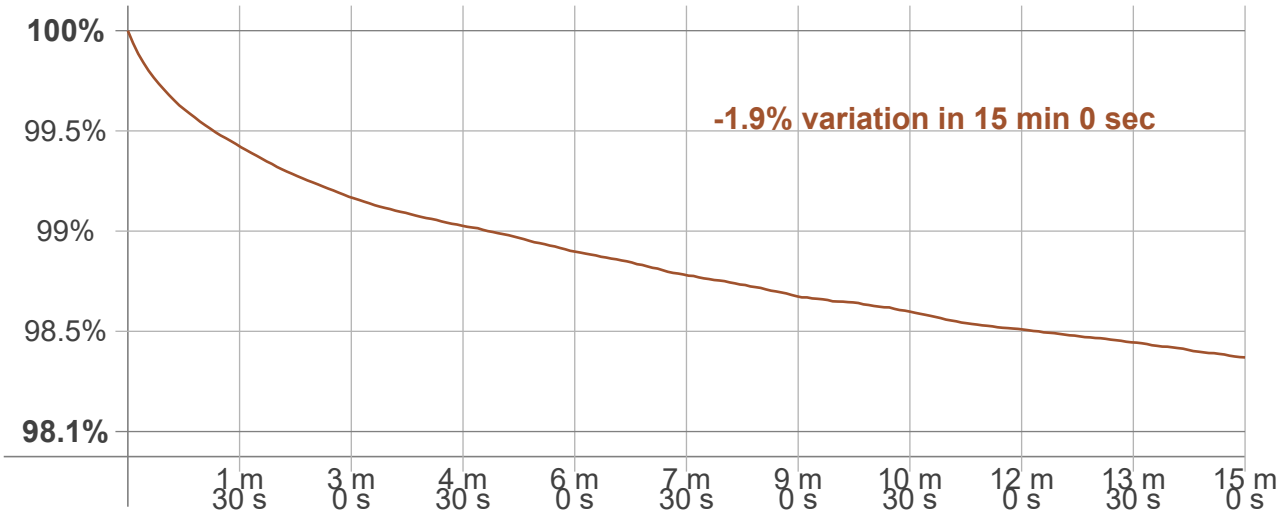
Efficiency

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 0 sec	Output start	2711 lm
Warmup variation	-1.9378%	Output change	-47.038 lm
		Output end	2664 lm

Stabilization Curve



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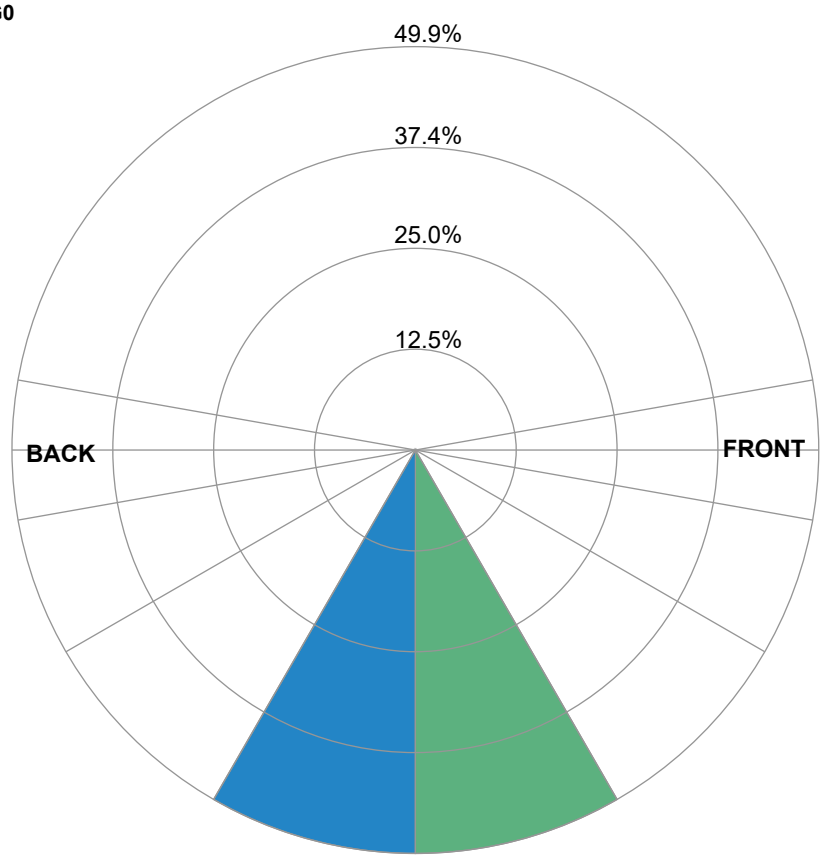
FL200-G2-XXX-RGBW3083-OM-7-INF-XXXXX-X (R)

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

Forward Light			
Low (0-30°)	1330	lm	49.9%
Medium (30-60°)	1.85	lm	0.0694%
High (60-80°)	0	lm	0%
Very High (80-90°)	0	lm	0%
Back Light			
Low (0-30°)	1330	lm	49.9%
Medium (30-60°)	1.85	lm	0.0694%
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	2664	lm	100%

BUG RATING B3 U0 G0