Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-10-INF-XXXXX-X (B)

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.Apr.16-7916-VO
Measurement date	2026-04-16

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	0.40°
Input Power	128.2 W

Electrical Data

Input Power	128.2 W
Input Voltage	381.4 V DC
Input Current	0.34 A
Power Factor	1.00

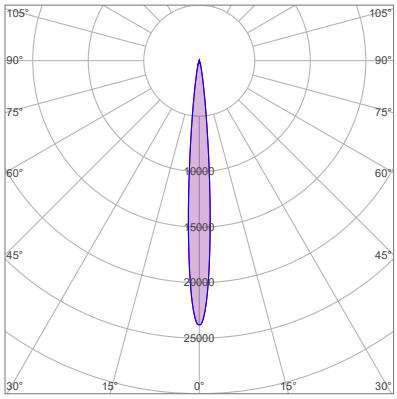
Tested Light Source

Product family	FL200-G2
Luminaire configuration	FL200-G2-XXX-RGBW3083-OM-10-INF-XXXXX-X (B)
Manufacturer	GVA Lighting, Inc.
Size (width x length x height)	106 mm 0 mm x 430 mm

Main Light Measurement Results

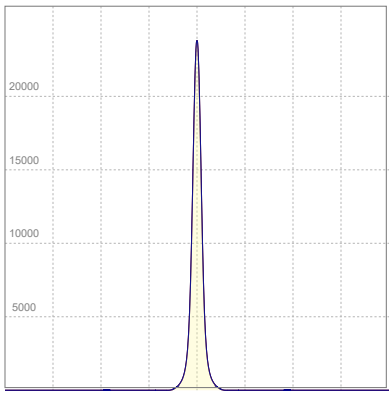
Output – Total Lumen	909.8 - 0% / 100%
Efficiency	7.1 lm/W
Peak Intensity	23758
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	9.2°
Beam Angle (FWHM) | C90/270	9.2°
Field Angle (10%) | C0/180	18.7°Unit: 0-100% of peak intensity
Optical Power	21308 mW
Peak Wavelength	454 nm
Dominant Wavelength	458 nm

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

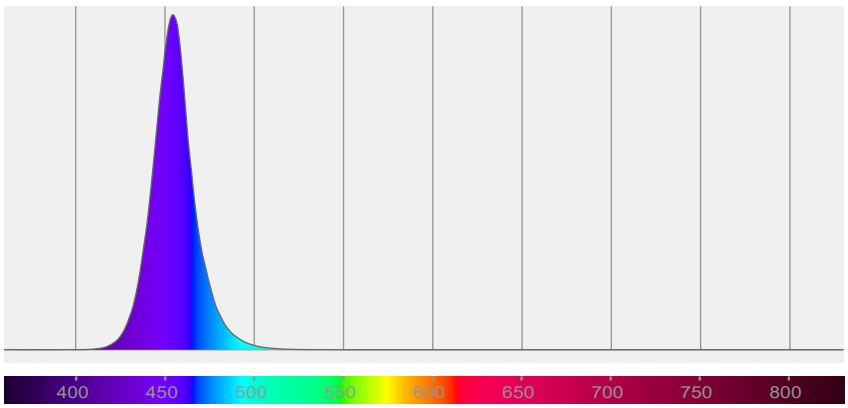


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

NaN K

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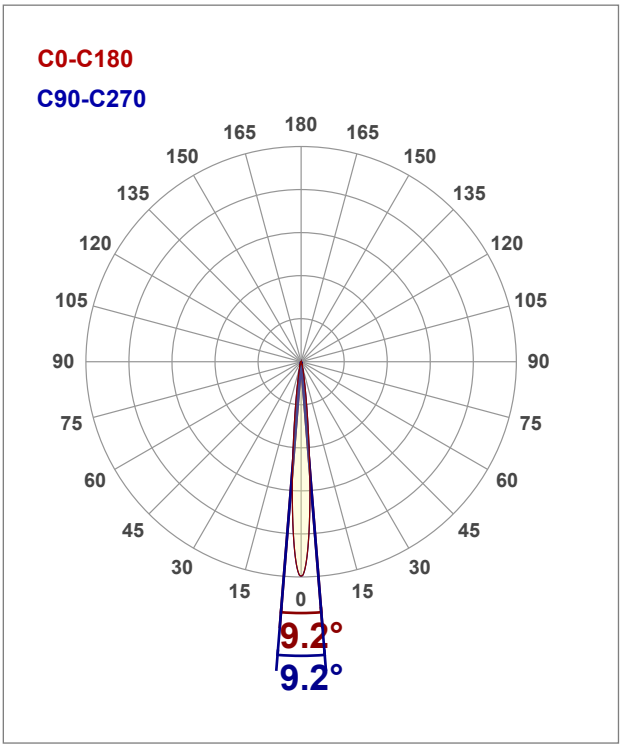
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	909.8 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	23758 cd
Beam Angle (50%-FWHM)	9.2°

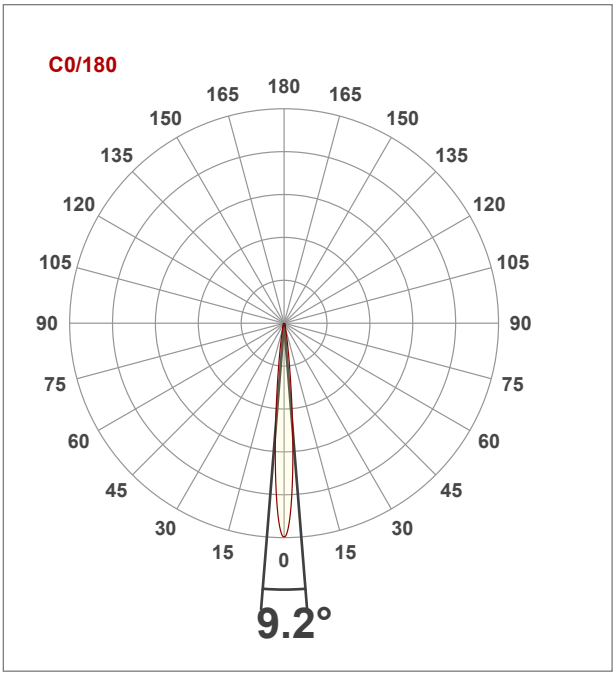
EU Ecodesign parameters

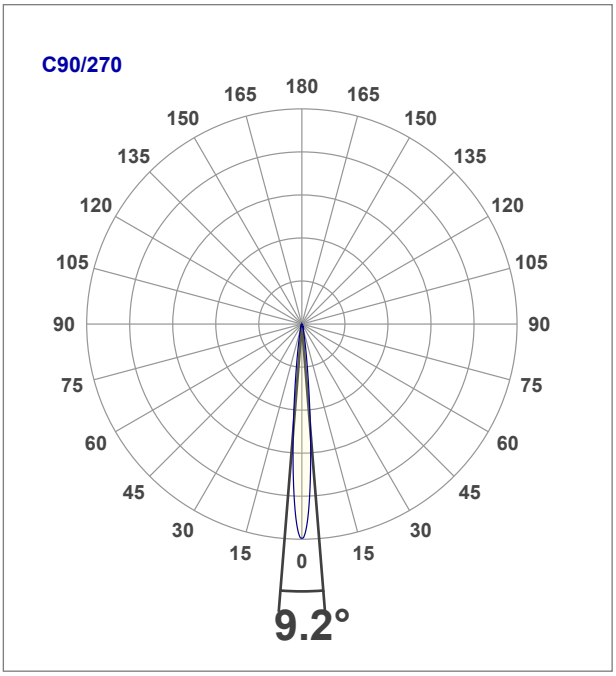
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	909.8 lm
Ecodesign Energy Class	G

Intensity Ratio

In 120° cone	100%
In 90° cone	100%

Angular Distribution





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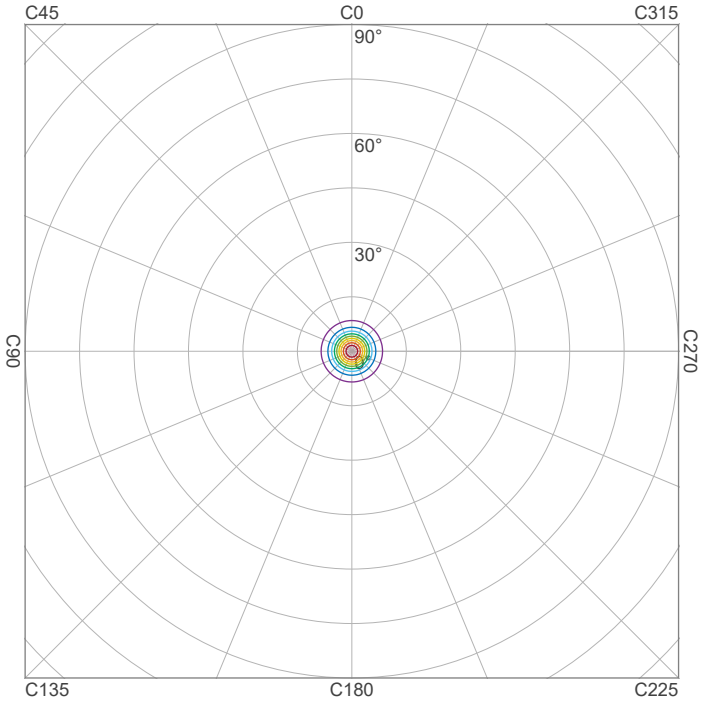
Iso-intensity Diagram (Iso-candela)

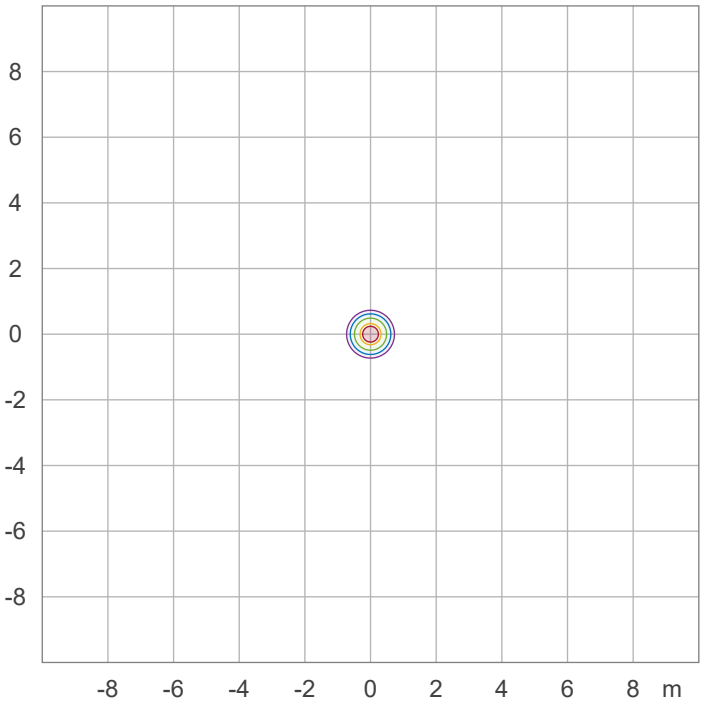


90 %	21382.4 cd
80 %	19006.6 cd
70 %	16630.8 cd
60 %	14254.9 cd
50 %	11879.1 cd
40 %	9503.3 cd
30 %	7127.5 cd
20 %	4751.6 cd
10 %	2375.8 cd

Peak intensity: 23758.2 cd

Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	1320 lx
30.0 %	792 lx
10.0 %	264 lx
5.0 %	132 lx
3.0 %	79.2 lx

Peak illuminance: 2640 lx

Mounting height: 3 m

Number of c-planes: 36

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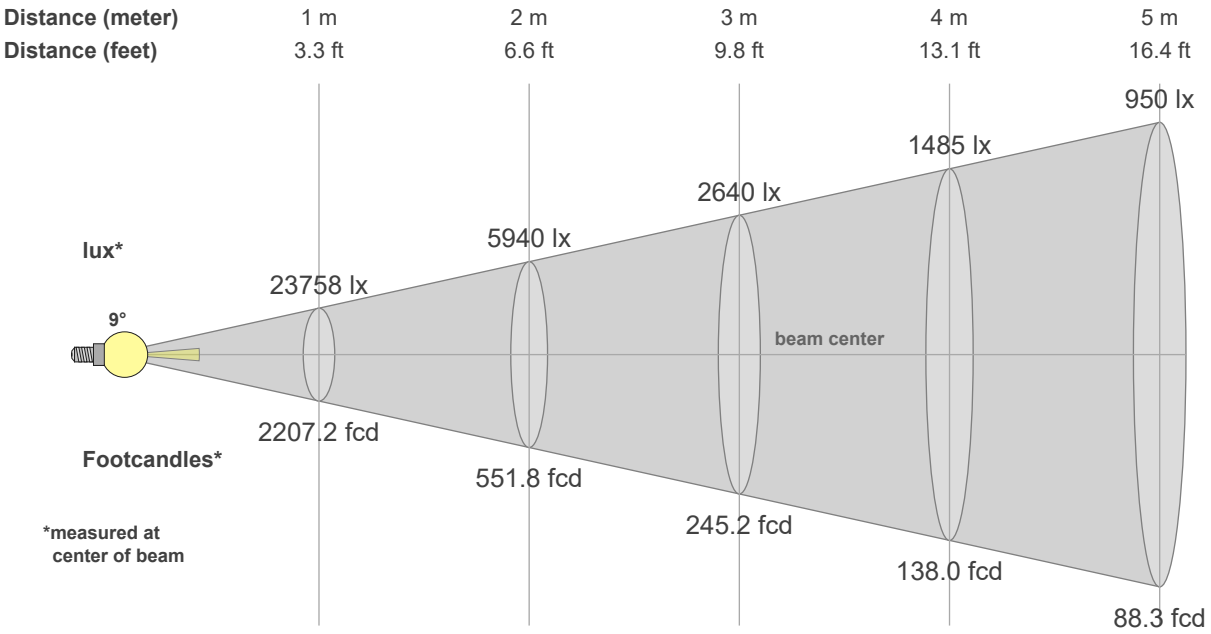
Beam details



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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
23758	5940	2640	1485	950	660	485	371	293	238	196	165	141	121	106	93	82	73	66	59	lux
2207.2	551.8	245.2	138	88.3	61.3	45	34.5	27.2	22.1	18.2	15.3	13.1	11.3	9.8	8.6	7.6	6.8	6.1	5.5	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
23.8k	23.1k	20.9k	17.7k	14.0k	10.5k	7.5k	5.3k	3.7k	2.7k	2.0k	1.5k	1.1k	0.9k	0.7k	0.6k	0.5k	0.4k	0.3k	0.2k	cd
100%	97%	88%	74%	59%	44%	32%	22%	16%	11%	8%	6%	5%	4%	3%	2%	2%	2%	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
23.8k	23.1k	20.9k	17.7k	14.0k	10.5k	7.5k	5.3k	3.7k	2.7k	2.0k	1.5k	1.1k	0.9k	0.7k	0.6k	0.5k	0.4k	0.3k	0.2k	cd
100%	97%	88%	74%	59%	44%	32%	22%	16%	11%	8%	6%	5%	4%	3%	2%	2%	2%	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
23.8k	23.1k	20.9k	17.7k	14.0k	10.5k	7.5k	5.3k	3.7k	2.7k	2.0k	1.5k	1.1k	0.9k	0.7k	0.6k	0.5k	0.4k	0.3k	0.2k	cd
100%	97%	88%	74%	59%	44%	32%	22%	16%	11%	8%	6%	5%	4%	3%	2%	2%	2%	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
23.8k	23.1k	20.9k	17.7k	14.0k	10.5k	7.5k	5.3k	3.7k	2.7k	2.0k	1.5k	1.1k	0.9k	0.7k	0.6k	0.5k	0.4k	0.3k	0.2k	cd
100%	97%	88%	74%	59%	44%	32%	22%	16%	11%	8%	6%	5%	4%	3%	2%	2%	2%	1%	1%	of 0°val

Photometric Test Report

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Power details

Input power	
Frequency of input power	0.0 Hz
Power feed to light source	128.2 W
RMS Input voltage feed V,RMS	381.4 V
RMS Input current feed I,RMS	0.34 A
Volt-Amp or apparent power = V,RMS*I,RMS	128.2 VA
Displacement factor of AC power feed	1.00
Power factor of AC current feed	1.00
Total harmonic distortion of the current	0%
Total harmonic distortion of the voltage	0%

Input power curve

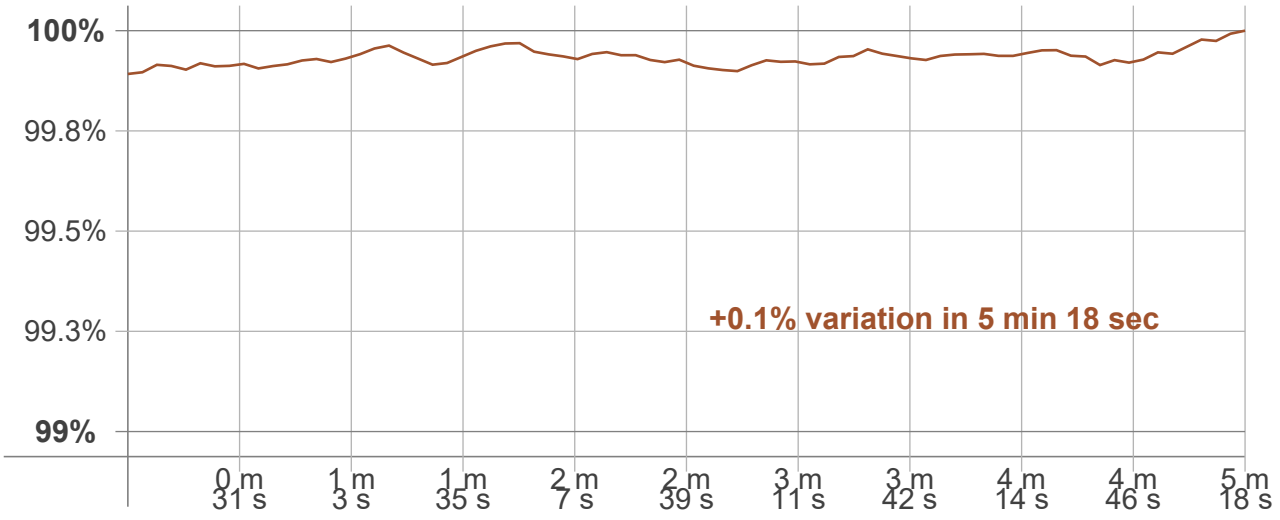
Efficiency

Radiated power efficiency	16.63
Lumen efficiency	7.1 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	909.3 lm
Warmup variation	0.1296%	Output change	0.5796 lm
		Output end	909.8 lm

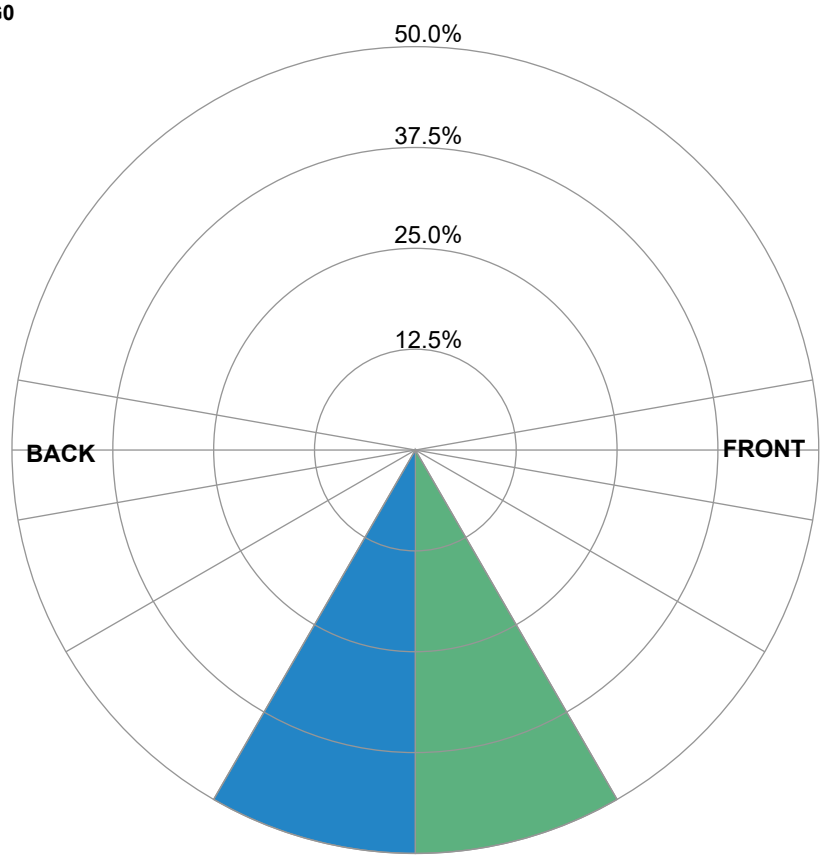
Stabilization Curve



Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-10-INF-XXXXX-X (B)

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

Forward Light			
Low (0-30°)	455	lm	50.0%
Medium (30-60°)	0	lm	0%
High (60-80°)	0	lm	0%
Very High (80-90°)	0	lm	0%
Back Light			
Low (0-30°)	455	lm	50.0%
Medium (30-60°)	0	lm	0%
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	909.8	lm	100%

BUG RATING B1 U0 G0