Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-20-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.May.26-8908-VO
Measurement date	2026-05-26

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	1.00°
Input Power	128.9 W

Electrical Data

Input Power	128.9 W
Input Voltage	381.4 V DC
Input Current	0.34 A
Power Factor	1.00

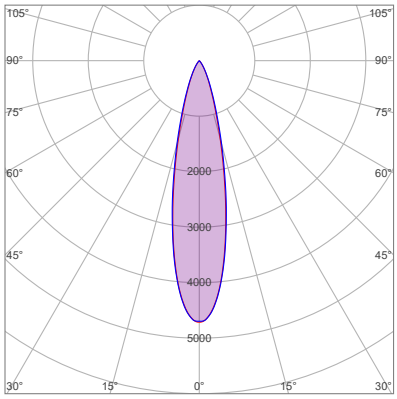
Tested Light Source

Product family	FL200-G2
Luminaire configuration	FL200-G2-XXX-RGBW3083-OM-20-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

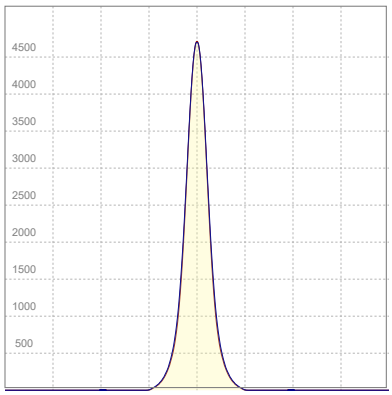
Output – Total Lumen	1017 - 0% / 100%
Efficiency	7.889 lm/W
Peak Intensity	4715
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	22.7°
Beam Angle (FWHM) | C90/270	23.4°
Field Angle (10%) | C0/180	46.3°Unit: 0-100% of peak intensity
Optical Power	24098 mW
Peak Wavelength	454 nm
Dominant Wavelength	458 nm

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

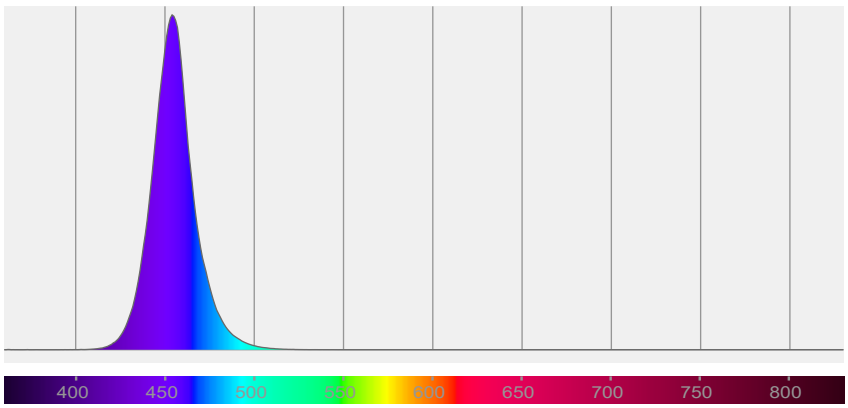


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

NaN K

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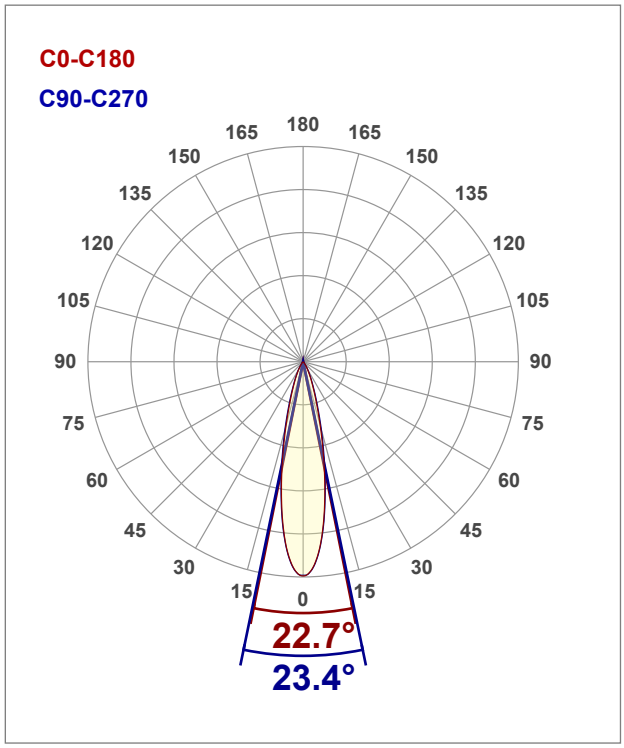
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	1017 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	4715 cd
Beam Angle (50%-FWHM)	22.9°

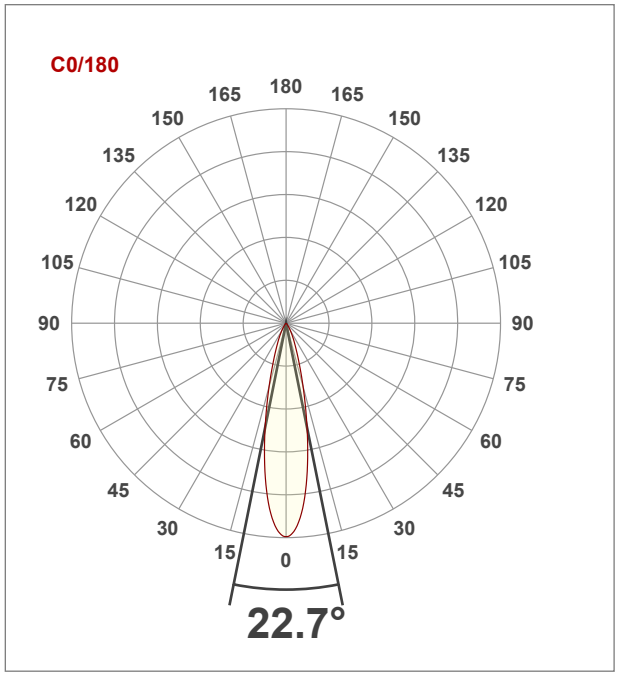
EU Ecodesign parameters

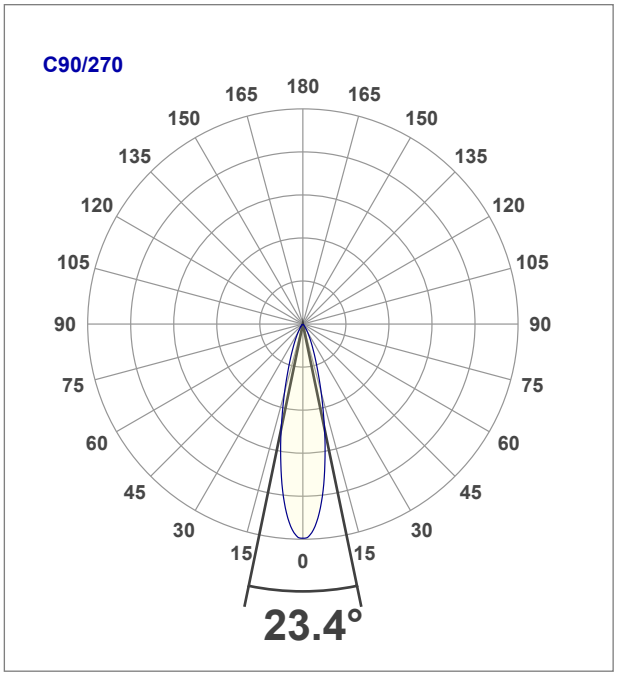
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	1017 lm
Ecodesign Energy Class	G

Intensity Ratio

In 120° cone	100%
In 90° cone	99.96%

Angular Distribution





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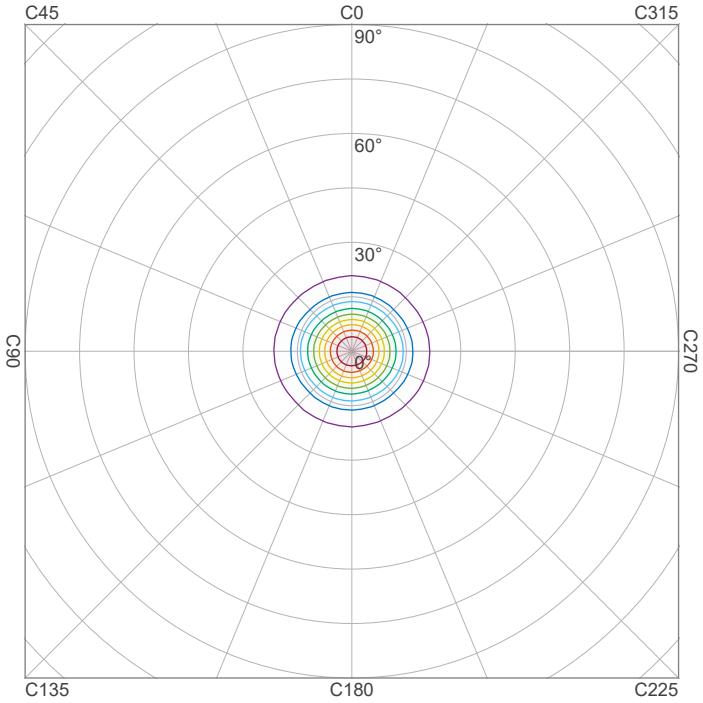
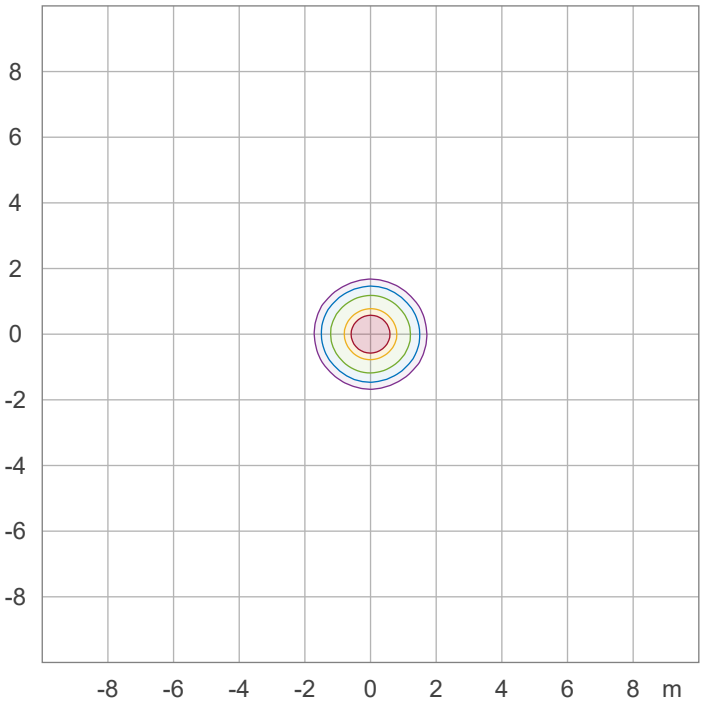
Iso-intensity Diagram (Iso-candela)



90 %	4236.2 cd
80 %	3765.5 cd
70 %	3294.8 cd
60 %	2824.1 cd
50 %	2353.4 cd
40 %	1882.7 cd
30 %	1412.1 cd
20 %	941.4 cd
10 %	470.7 cd

Peak intensity: 4706.8 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	261 lx
30.0 %	157 lx
10.0 %	52.3 lx
5.0 %	26.1 lx
3.0 %	15.7 lx

Peak illuminance: 523 lx
Mounting height: 3 m
Number of c-planes: 36

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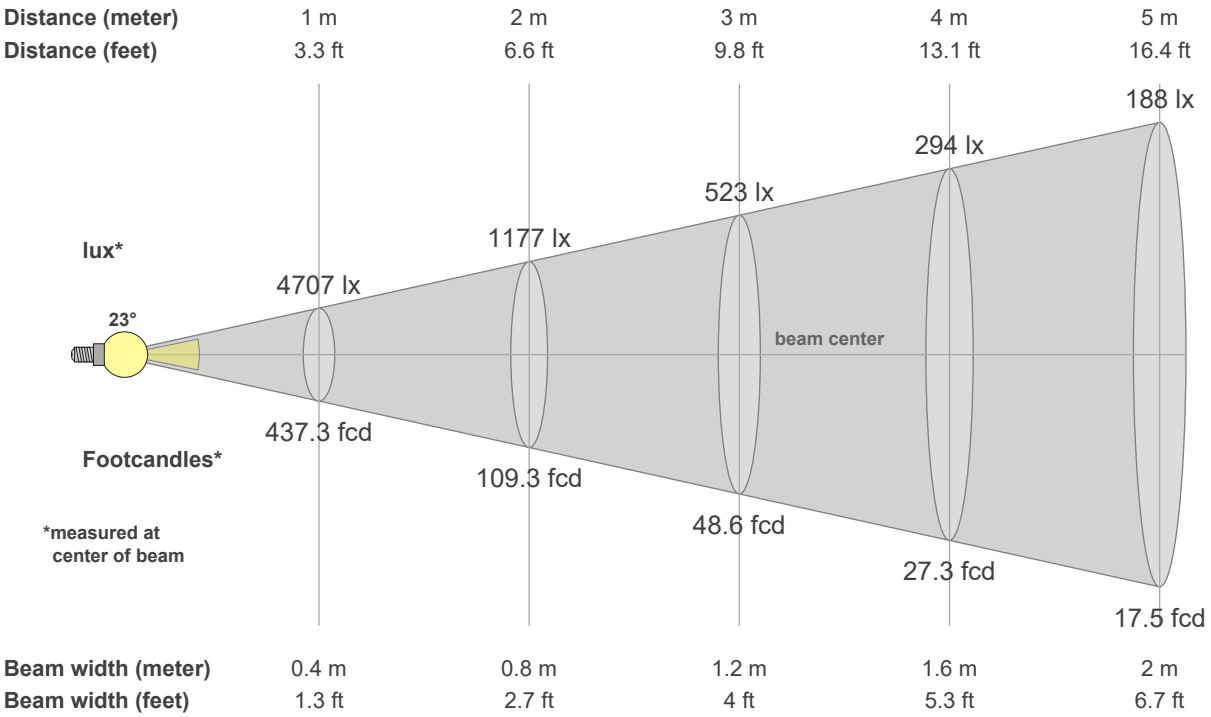
Beam details



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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
4707	1177	523	294	188	131	96	74	58	47	39	33	28	24	21	18	16	15	13	12	lux
437.3	109.3	48.6	27.3	17.5	12.1	8.9	6.8	5.4	4.4	3.6	3	2.6	2.2	1.9	1.7	1.5	1.3	1.2	1.1	fc

Intensities in 0° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°	γ
4707	4608	4325	3887	3337	2744	2173	1670	1261	943	715	545	425	326	252	192	144	108	77	54	cd
100%	98%	92%	83%	71%	58%	46%	35%	27%	20%	15%	12%	9%	7%	5%	4%	3%	2%	2%	1%	of 0°val

Intensities in 90° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°	γ
4707	4619	4345	3913	3378	2807	2258	1768	1355	1025	781	596	461	355	270	210	158	118	85	62	cd
100%	98%	92%	83%	72%	60%	48%	38%	29%	22%	17%	13%	10%	8%	6%	4%	3%	3%	2%	1%	of 0°val

Intensities in 180° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°	γ
4707	4608	4325	3887	3337	2744	2173	1670	1261	943	715	545	425	326	252	192	144	108	77	54	cd
100%	98%	92%	83%	71%	58%	46%	35%	27%	20%	15%	12%	9%	7%	5%	4%	3%	2%	2%	1%	of 0°val

Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°	γ
4707	4619	4345	3913	3378	2807	2258	1768	1355	1025	781	596	461	355	270	210	158	118	85	62	cd
100%	98%	92%	83%	72%	60%	48%	38%	29%	22%	17%	13%	10%	8%	6%	4%	3%	3%	2%	1%	of 0°val

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Power details

Input power	
Frequency of input power	0.0 Hz
Power feed to light source	128.9 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	128.9 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

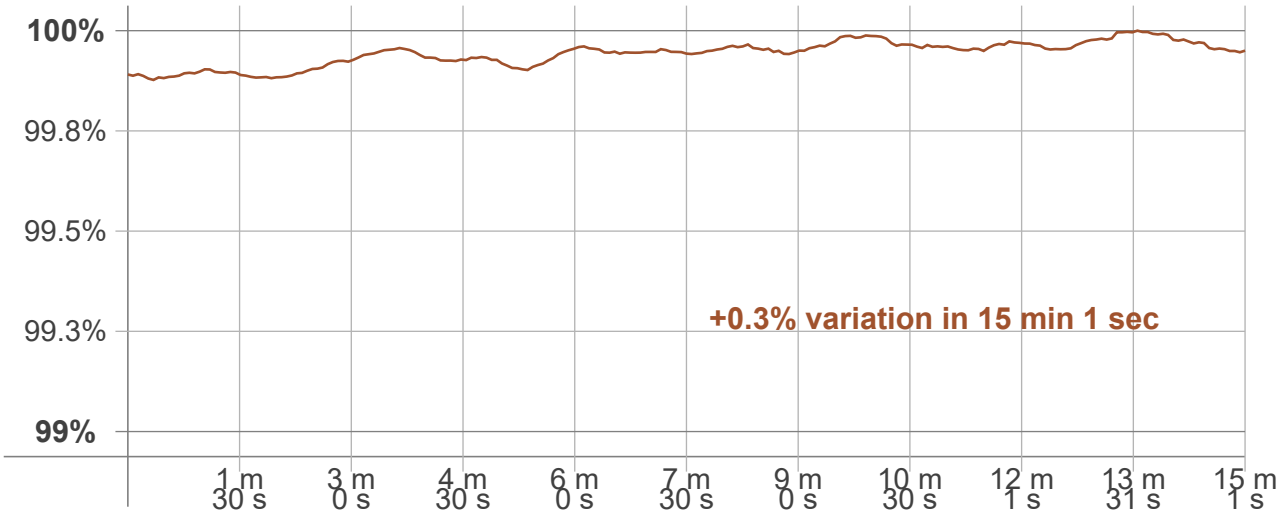
Efficiency

Radiated power efficiency	18.69
Lumen efficiency	7.889 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	1016 lm
Warmup variation	0.2686%	Output change	0.7112 lm
		Output end	1017 lm

Stabilization Curve



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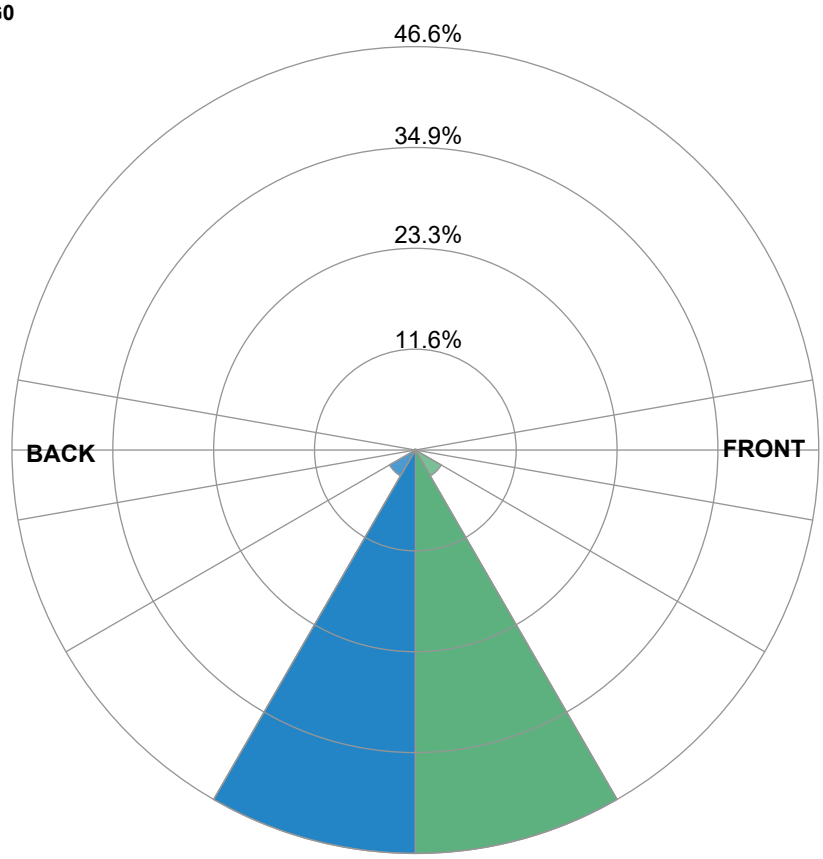
FL200-G2-XXX-RGBW3083-OM-20-INF-XXXXX-X (B)

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

Forward Light			
Low (0-30°)	473	lm	46.6%
Medium (30-60°)	35.1	lm	3.45%
High (60-80°)	0	lm	0%
Very High (80-90°)	0	lm	0%
Back Light			
Low (0-30°)	473	lm	46.6%
Medium (30-60°)	35.1	lm	3.45%
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	1017	lm	100%

BUG RATING B1 U0 G0