Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-1040-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.26-8904-VO
Measurement date	2026-05-26

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	0.30°
Input Power	128.2 W

Electrical Data

Input Power	128.2 W
Input Voltage	381.6 V DC
Input Current	0.34 A
Power Factor	1.00

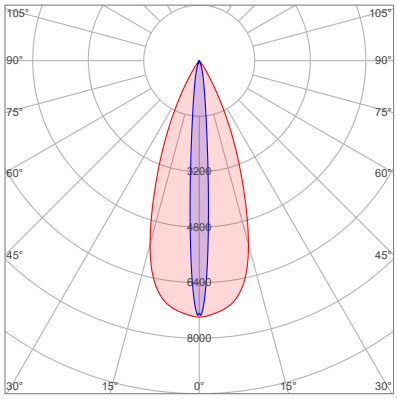
Tested Light Source

Product family	FL200-G2
Luminaire configuration	FL200-G2-XXX-RGBW3083-OM-1040-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

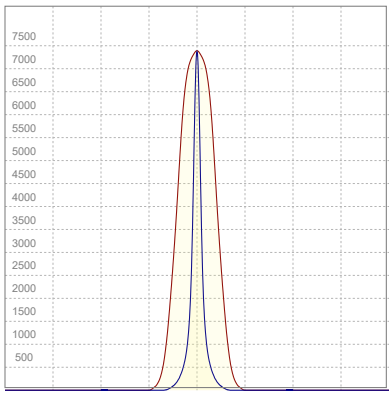
Output – Total Lumen	1013 - 0% / 100%
Efficiency	7.9 lm/W
Peak Intensity	7600
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	39.3°
Beam Angle (FWHM) | C90/270	8.2°
Field Angle (10%) | C0/180	60.7°Unit: 0-100% of peak intensity
Optical Power	23925 mW
Peak Wavelength	454 nm
Dominant Wavelength	458 nm

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

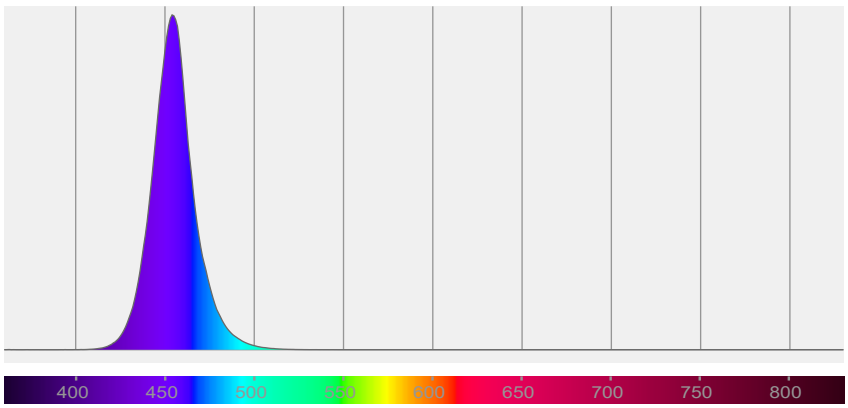


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

NaN K

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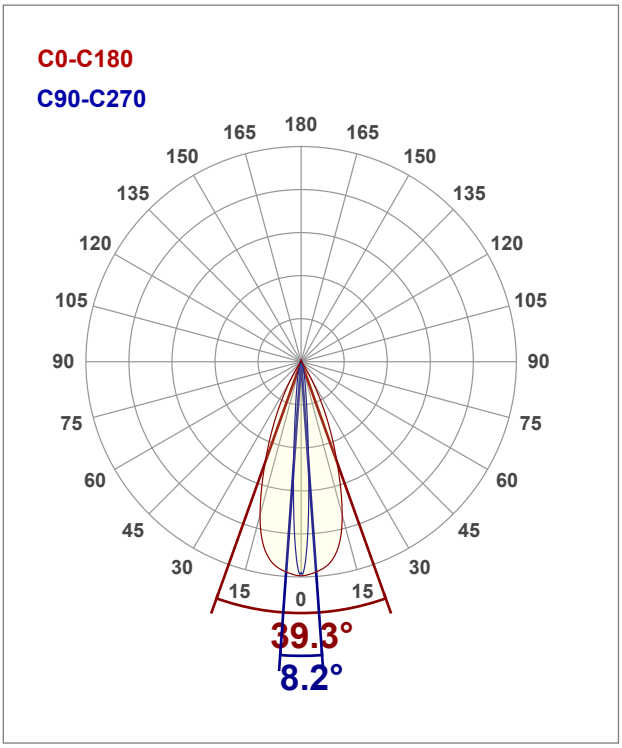
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	1013 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	7600 cd
Beam Angle (50%-FWHM)	16.1°

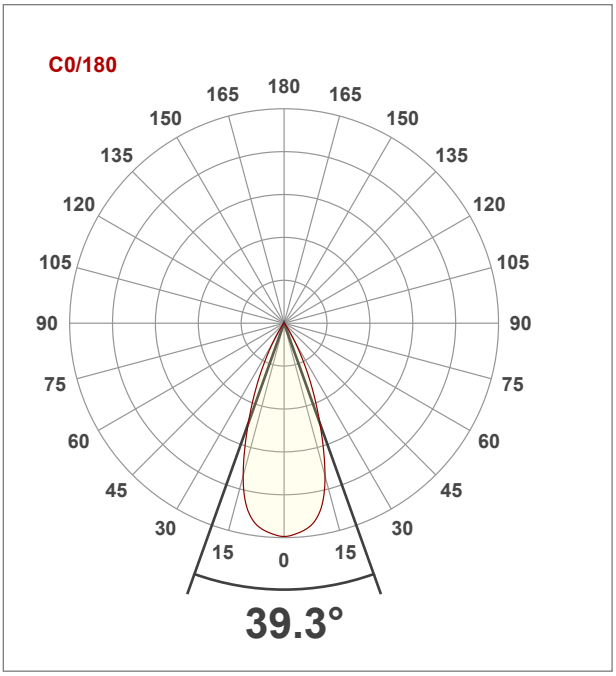
EU Ecodesign parameters

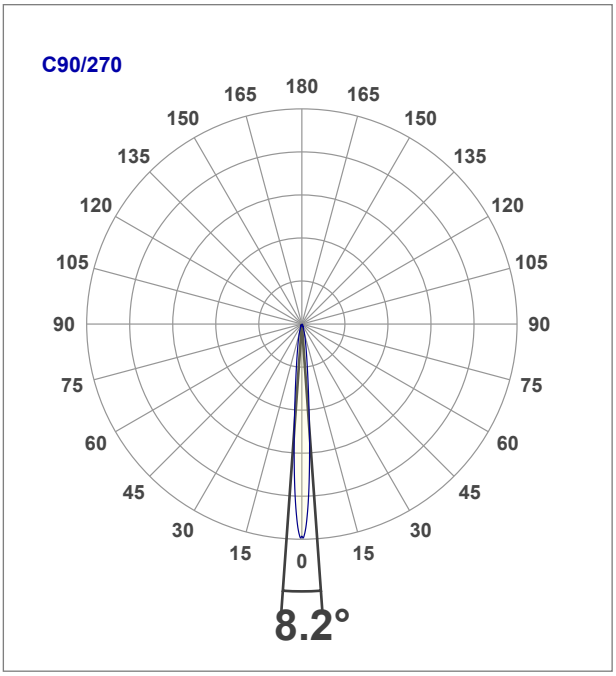
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	1013 lm
Ecodesign Energy Class	G

Intensity Ratio

In 120° cone	100%
In 90° cone	100%

Angular Distribution





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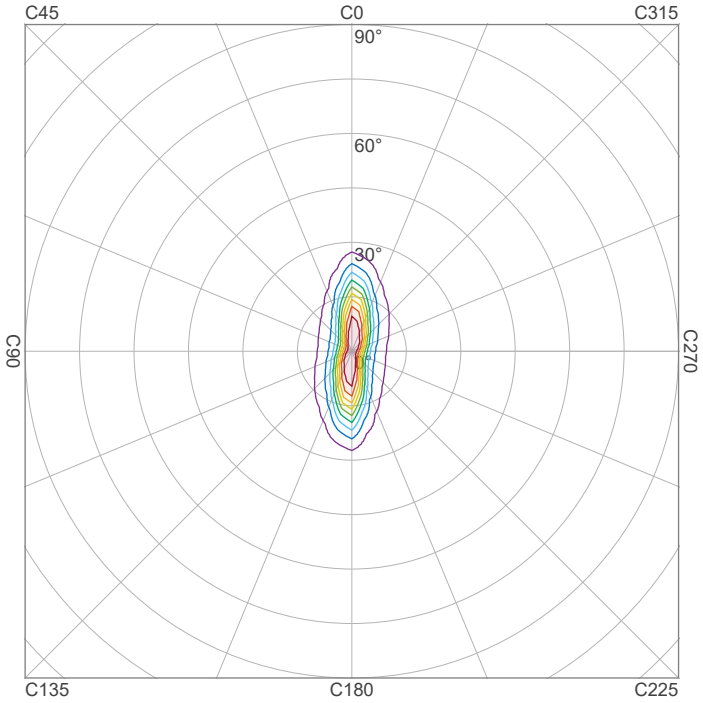
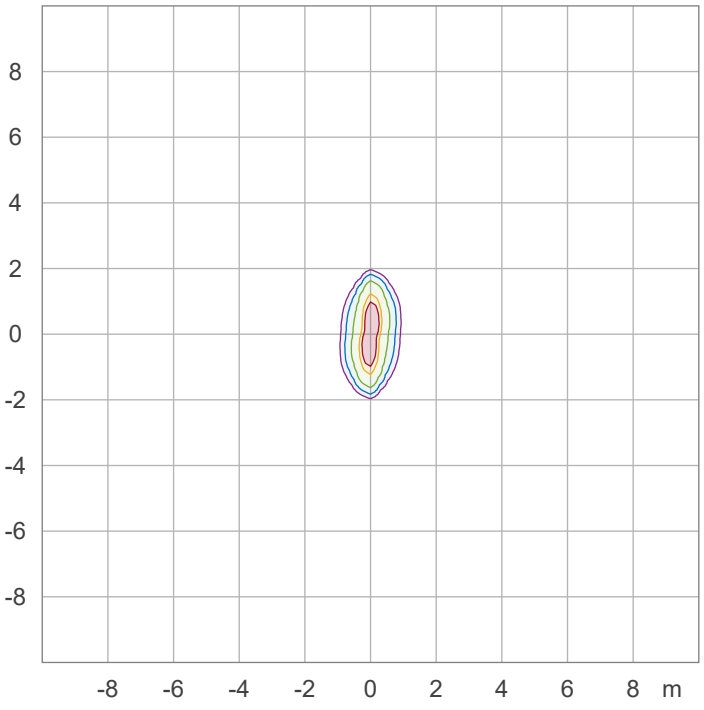
Iso-intensity Diagram (Iso-candela)



90 %	6644.2 cd
80 %	5905.9 cd
70 %	5167.7 cd
60 %	4429.5 cd
50 %	3691.2 cd
40 %	2953.0 cd
30 %	2214.7 cd
20 %	1476.5 cd
10 %	738.2 cd

Peak intensity: 7382.4 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	410 lx
30.0 %	246 lx
10.0 %	82 lx
5.0 %	41 lx
3.0 %	24.6 lx

Peak illuminance: 820 lx
Mounting height: 3 m
Number of c-planes: 36

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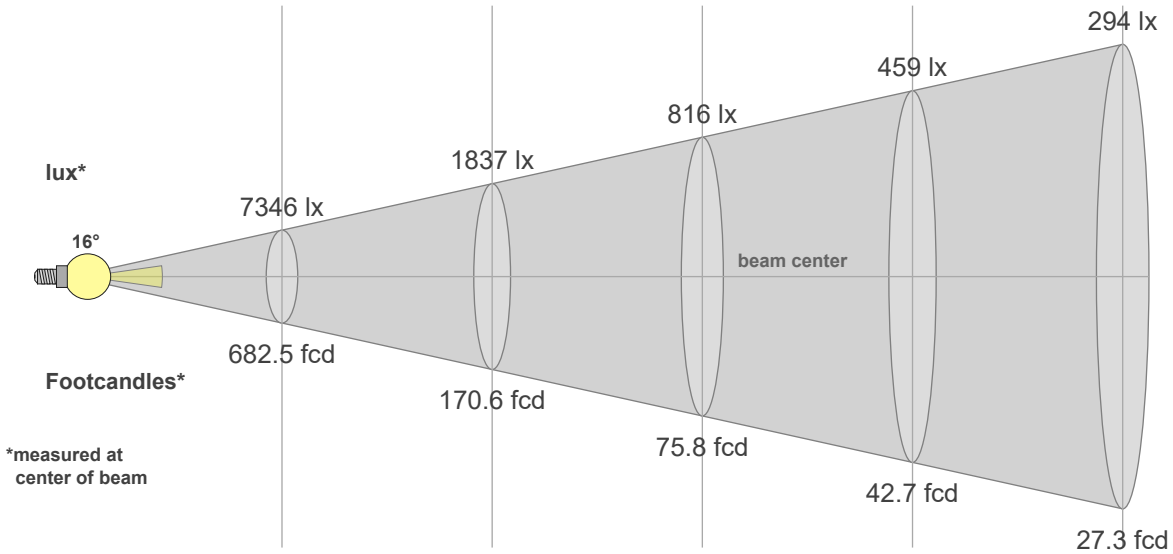
Beam details

Distance (meter)	1 m	2 m	3 m	4 m	5 m
Distance (feet)	3.3 ft	6.6 ft	9.8 ft	13.1 ft	16.4 ft



Beam width (meter)	0.3 m	0.6 m	0.9 m	1.1 m	1.4 m
Beam width (feet)	0.9 ft	1.9 ft	2.8 ft	3.7 ft	4.7 ft

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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
7346	1837	816	459	294	204	150	115	91	73	61	51	43	37	33	29	25	23	20	18	lux
682.5	170.6	75.8	42.7	27.3	19	13.9	10.7	8.4	6.8	5.6	4.7	4	3.5	3	2.7	2.4	2.1	1.9	1.7	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
7346	7380	7353	7318	7279	7234	7178	7112	7025	6907	6767	6590	6371	6119	5815	5470	5101	4715	4324	3936	cd
100%	100%	100%	100%	99%	98%	98%	97%	96%	94%	92%	90%	87%	83%	79%	74%	69%	64%	59%	54%	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
7346	7062	6169	4964	3757	2772	2059	1575	1246	1003	822	686	581	492	415	354	300	248	211	175	cd
100%	96%	84%	68%	51%	38%	28%	21%	17%	14%	11%	9%	8%	7%	6%	5%	4%	3%	3%	2%	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
7346	7380	7353	7318	7279	7234	7178	7112	7025	6907	6767	6590	6371	6119	5815	5470	5101	4715	4324	3936	cd
100%	100%	100%	100%	99%	98%	98%	97%	96%	94%	92%	90%	87%	83%	79%	74%	69%	64%	59%	54%	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
7346	7062	6169	4964	3757	2772	2059	1575	1246	1003	822	686	581	492	415	354	300	248	211	175	cd
100%	96%	84%	68%	51%	38%	28%	21%	17%	14%	11%	9%	8%	7%	6%	5%	4%	3%	3%	2%	of 0°val

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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	381.6 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

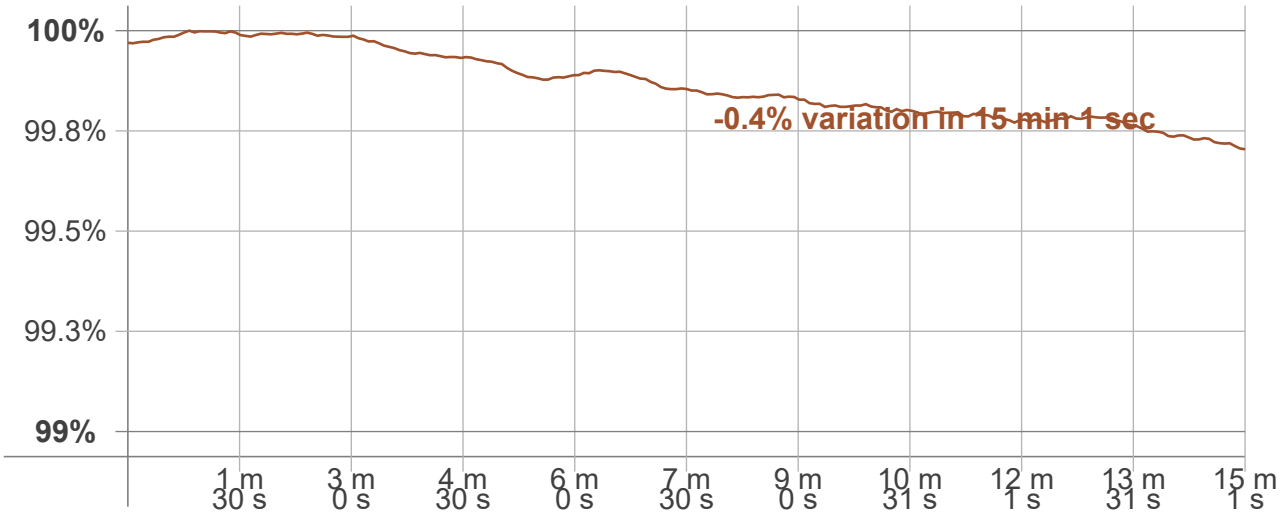
Efficiency

Radiated power efficiency	18.66
Lumen efficiency	7.9 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	1015 lm
Warmup variation	-0.3703%	Output change	-2.3983 lm
		Output end	1013 lm

Stabilization Curve



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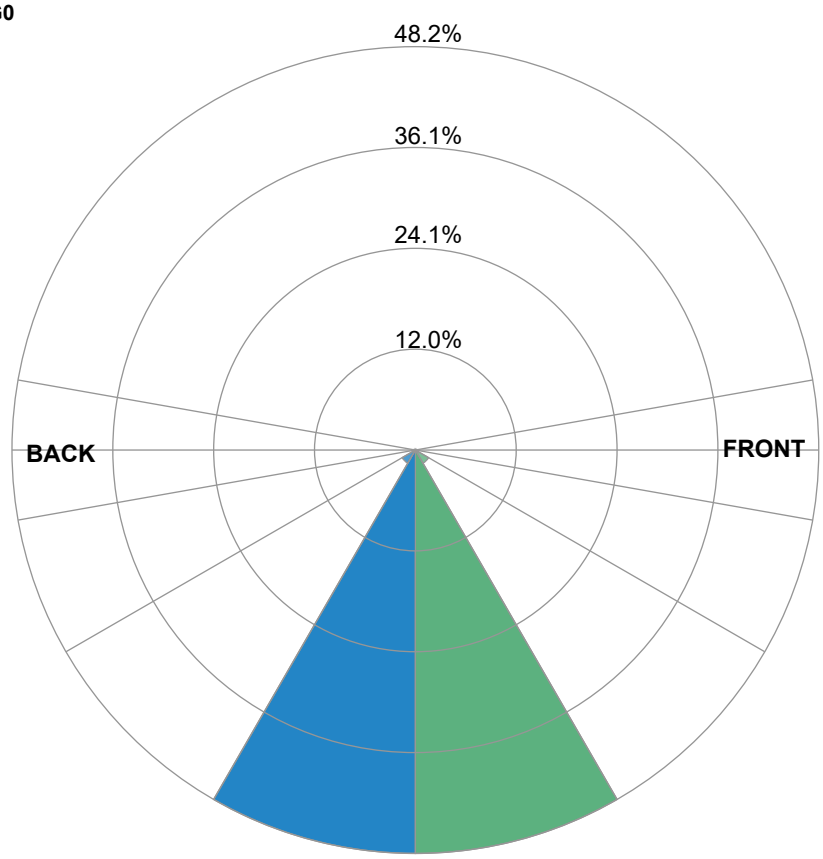
FL200-G2-XXX-RGBW3083-OM-1040-INF-XXXXX-X (B)

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

Forward Light			
Low (0-30°)	488	lm	48.2%
Medium (30-60°)	18.4	lm	1.82%
High (60-80°)	0	lm	0%
Very High (80-90°)	0	lm	0%
Back Light			
Low (0-30°)	488	lm	48.2%
Medium (30-60°)	18.4	lm	1.82%
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	1013	lm	100%

BUG RATING B1 U0 G0