Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-30L-INF-XXXXX-X (G)

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.Jun.02-9293-VO
Measurement date	2026-06-02

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	1.00°
Input Power	129 W

Electrical Data

Input Power	129 W
Input Voltage	381.6 V DC
Input Current	0.34 A
Power Factor	1.00

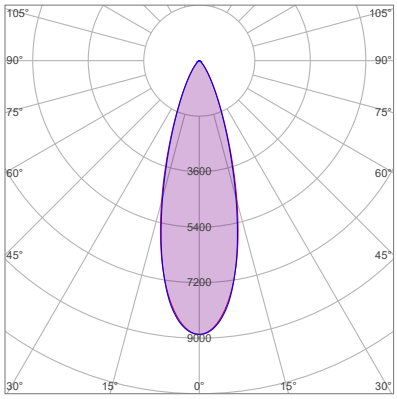
Tested Light Source

Product family	FL200-G2
Luminaire configuration	FL200-G2-XXX-RGBW3083-OM-30L-INF-XXXXX-X (G)
Manufacturer	GVA Lighting, Inc.
Size (width x length x height)	106 mm 0 mm x 430 mm

Main Light Measurement Results

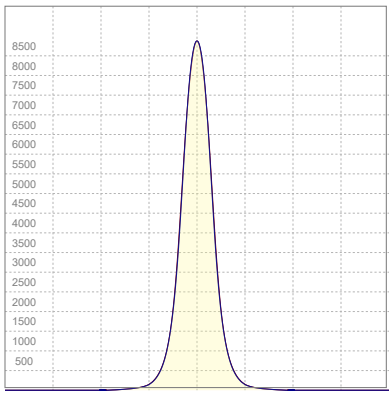
Output – Total Lumen	3225 - 0% / 100%
Efficiency	25.01 lm/W
Peak Intensity	8873
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	31.3°
Beam Angle (FWHM) | C90/270	30.7°
Field Angle (10%) | C0/180	58.9°Unit: 0-100% of peak intensity
Optical Power	6679 mW
Peak Wavelength	522 nm
Dominant Wavelength	527 nm

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

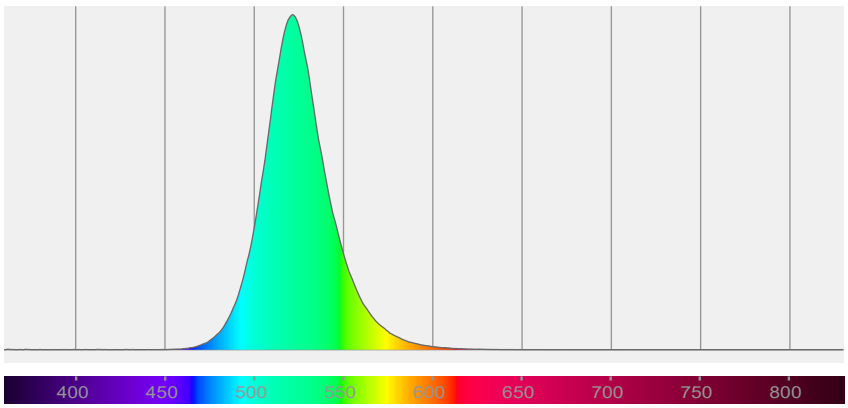


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

NaN K

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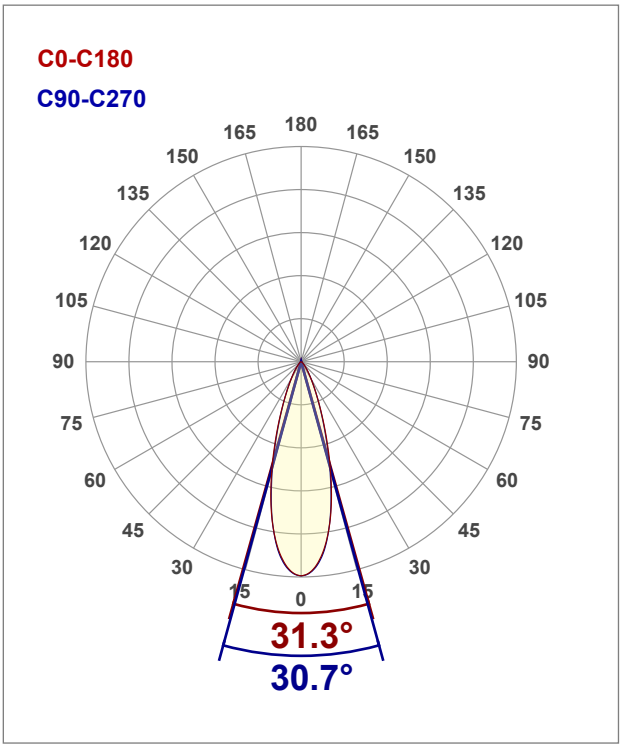
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	3225 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	8873 cd
Beam Angle (50%-FWHM)	31.0°

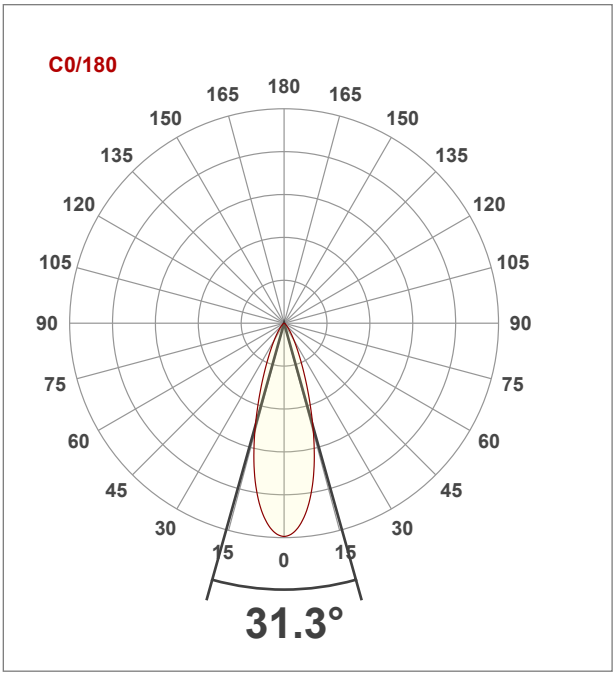
EU Ecodesign parameters

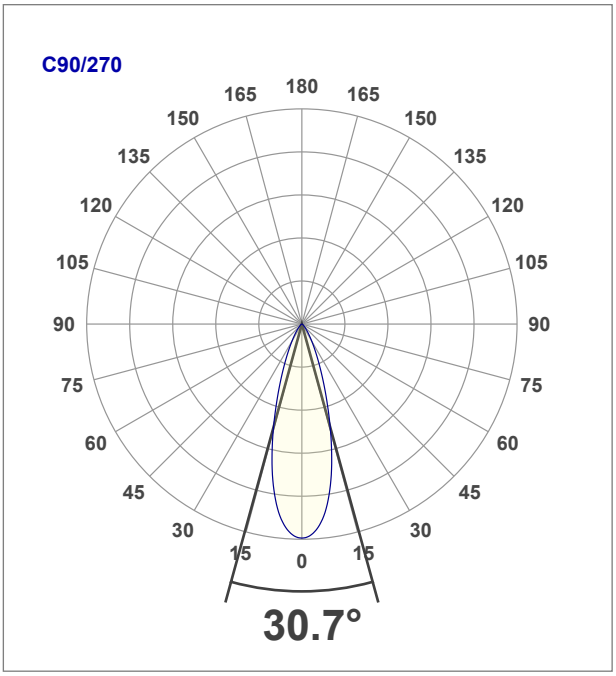
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	3076 lm
Ecodesign Energy Class	G

Intensity Ratio

In 120° cone	98.62%
In 90° cone	95.38%

Angular Distribution





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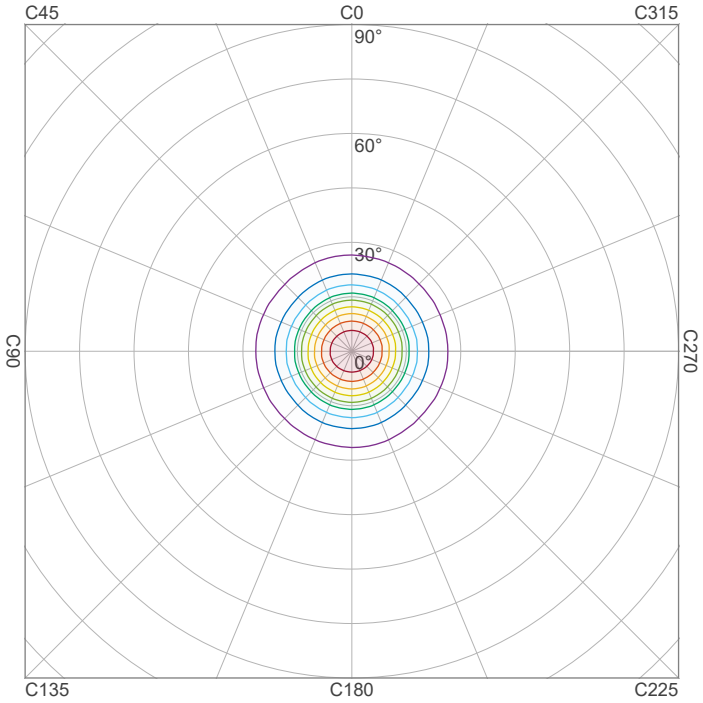
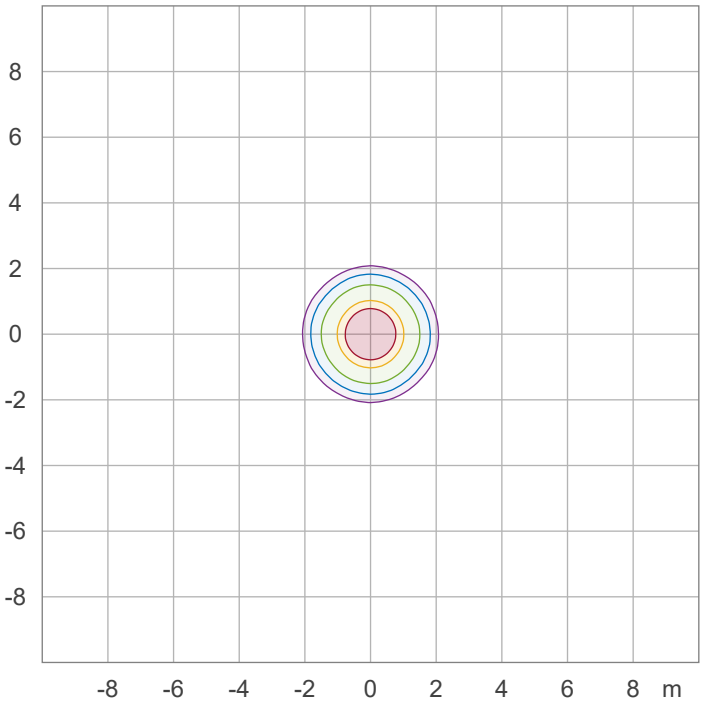
Iso-intensity Diagram (Iso-candela)



90 %	7979.9 cd
80 %	7093.2 cd
70 %	6206.6 cd
60 %	5319.9 cd
50 %	4433.3 cd
40 %	3546.6 cd
30 %	2660.0 cd
20 %	1773.3 cd
10 %	886.7 cd

Peak intensity: 8866.5 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	493 lx
30.0 %	296 lx
10.0 %	98.5 lx
5.0 %	49.3 lx
3.0 %	29.6 lx

Peak illuminance: 985 lx
Mounting height: 3 m
Number of c-planes: 36

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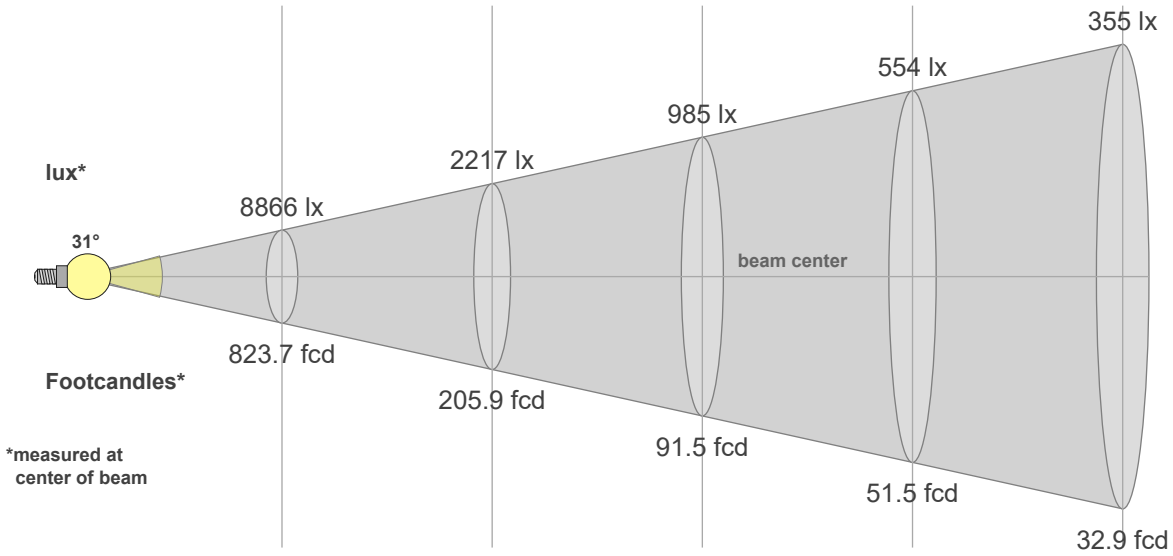
Beam details

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)	0.6 m	1.1 m	1.7 m	2.2 m	2.8 m
Beam width (feet)	1.8 ft	3.6 ft	5.5 ft	7.3 ft	9.1 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
8866	2217	985	554	355	246	181	139	109	89	73	62	52	45	39	35	31	27	25	22	lux
823.7	205.9	91.5	51.5	32.9	22.9	16.8	12.9	10.2	8.2	6.8	5.7	4.9	4.2	3.7	3.2	2.9	2.5	2.3	2.1	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
8867	8777	8510	8083	7513	6819	6021	5154	4286	3472	2765	2174	1702	1336	1053	832	662	527	418	332	cd
100%	99%	96%	91%	85%	77%	68%	58%	48%	39%	31%	25%	19%	15%	12%	9%	7%	6%	5%	4%	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
8867	8794	8551	8140	7549	6800	5945	5042	4160	3361	2683	2124	1679	1325	1045	823	648	512	406	321	cd
100%	99%	96%	92%	85%	77%	67%	57%	47%	38%	30%	24%	19%	15%	12%	9%	7%	6%	5%	4%	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
8867	8777	8510	8083	7513	6819	6021	5154	4286	3472	2765	2174	1702	1336	1053	832	662	527	418	332	cd
100%	99%	96%	91%	85%	77%	68%	58%	48%	39%	31%	25%	19%	15%	12%	9%	7%	6%	5%	4%	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
8867	8794	8551	8140	7549	6800	5945	5042	4160	3361	2683	2124	1679	1325	1045	823	648	512	406	321	cd
100%	99%	96%	92%	85%	77%	67%	57%	47%	38%	30%	24%	19%	15%	12%	9%	7%	6%	5%	4%	of 0°val

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Power details

Input power	
Frequency of input power	0.0 Hz
Power feed to light source	129 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	129.0 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

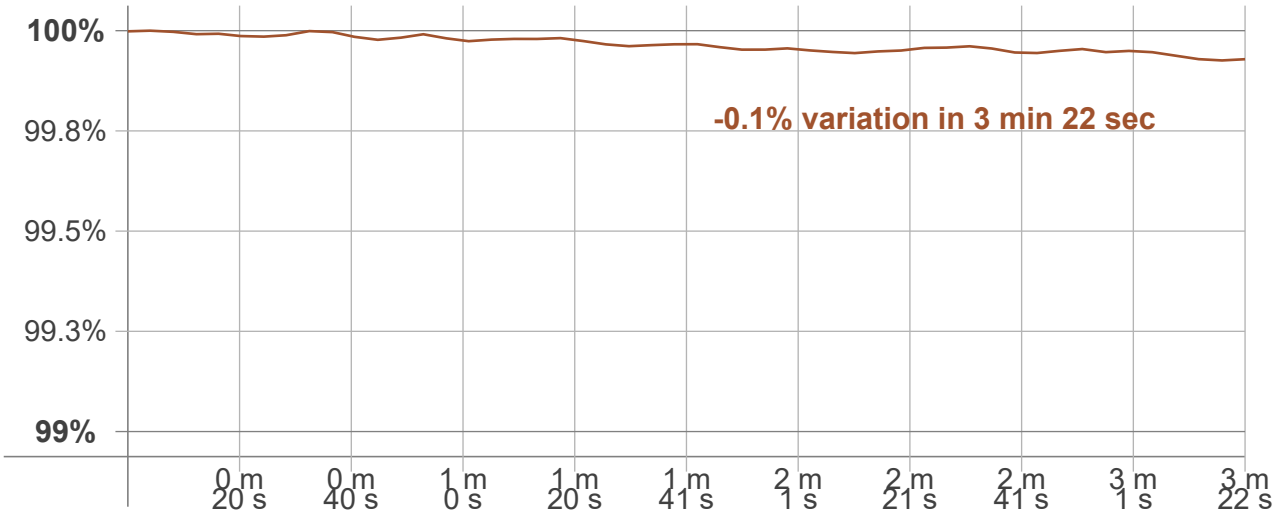
Efficiency

Radiated power efficiency	5.178
Lumen efficiency	25.01 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	3227 lm
Warmup variation	-0.0934%	Output change	-1.772 lm
		Output end	3225 lm

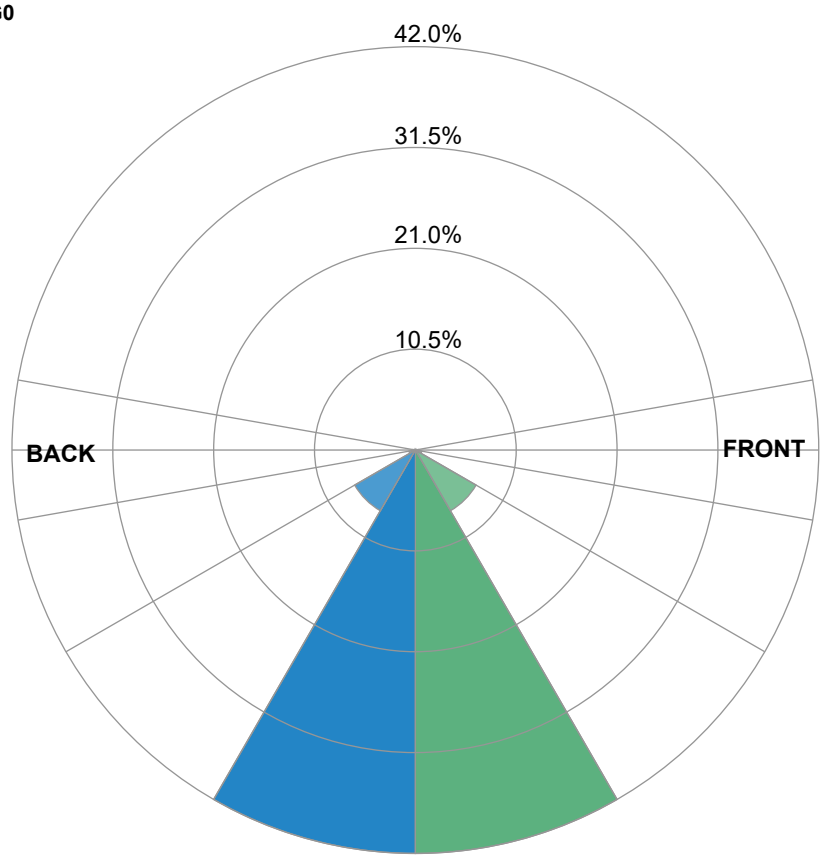
Stabilization Curve



Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-30L-INF-XXXXX-X (G)

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

Forward Light			
Low (0-30°)	1350	lm	42.0%
Medium (30-60°)	235	lm	7.30%
High (60-80°)	21.8	lm	0.675%
Very High (80-90°)	0.575	lm	0.0178%
Back Light			
Low (0-30°)	1350	lm	42.0%
Medium (30-60°)	235	lm	7.30%
High (60-80°)	21.8	lm	0.675%
Very High (80-90°)	0.575	lm	0.0178%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	3225	lm	100%

BUG RATING B3 U0 G0