Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-6030-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.Apr.17-7939-VO
Measurement date	2026-04-17

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	1.00°
Input Power	128.5 W

Electrical Data

Input Power	128.5 W
Input Voltage	381.4 V DC
Input Current	0.34 A
Power Factor	1.00

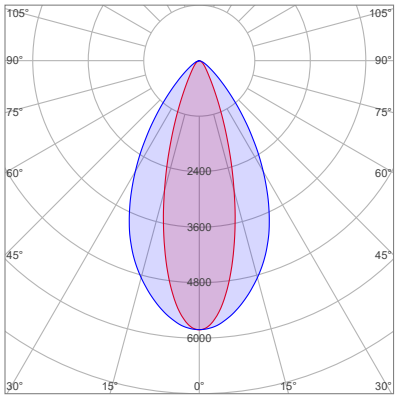
Tested Light Source

Product family	FL200-G2
Luminaire configuration	FL200-G2-XXX-RGBW3083-OM-6030-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

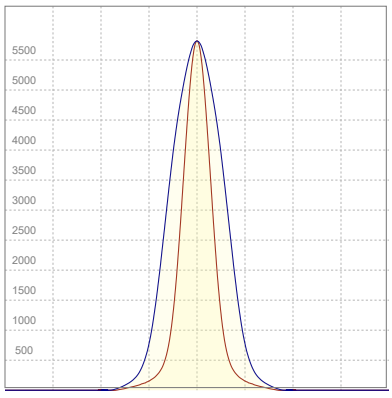
Output – Total Lumen	3529 - 0% / 100%
Efficiency	27.46 lm/W
Peak Intensity	5814
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	30.0°
Beam Angle (FWHM) | C90/270	58.3°
Field Angle (10%) | C0/180	57.5°Unit: 0-100% of peak intensity
Optical Power	18343 mW
Peak Wavelength	633 nm
Dominant Wavelength	622 nm

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

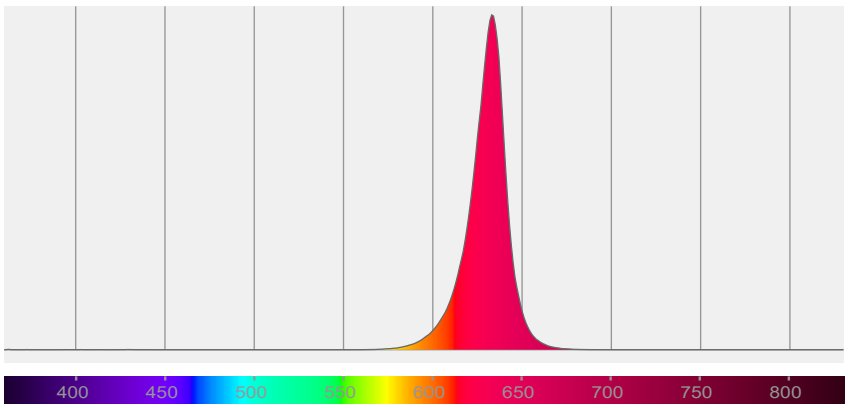


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

NaN K

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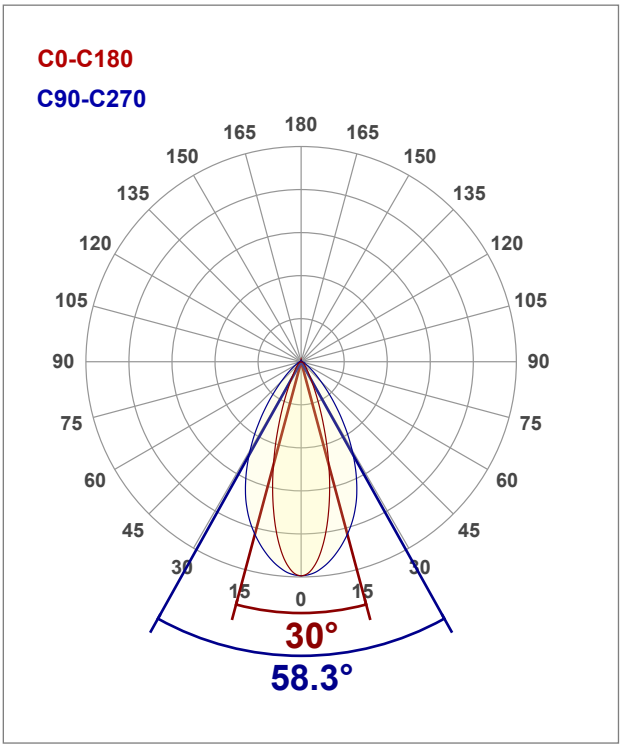
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	3529 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	5814 cd
Beam Angle (50%-FWHM)	41.1°

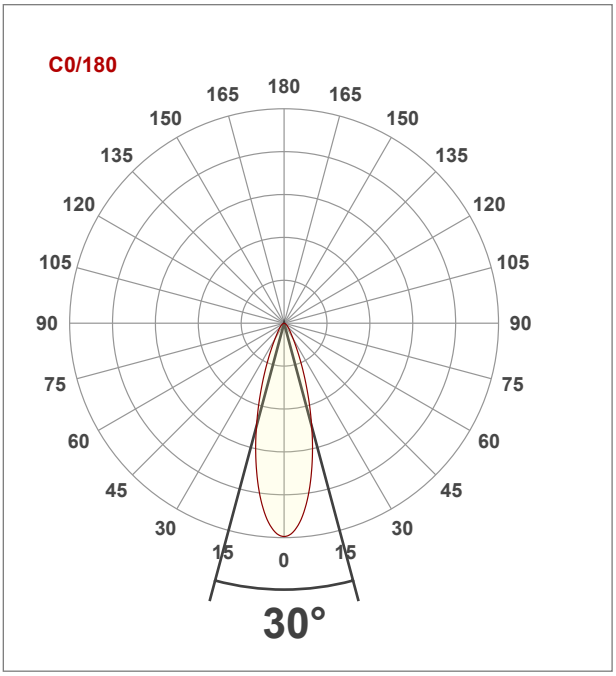
EU Ecodesign parameters

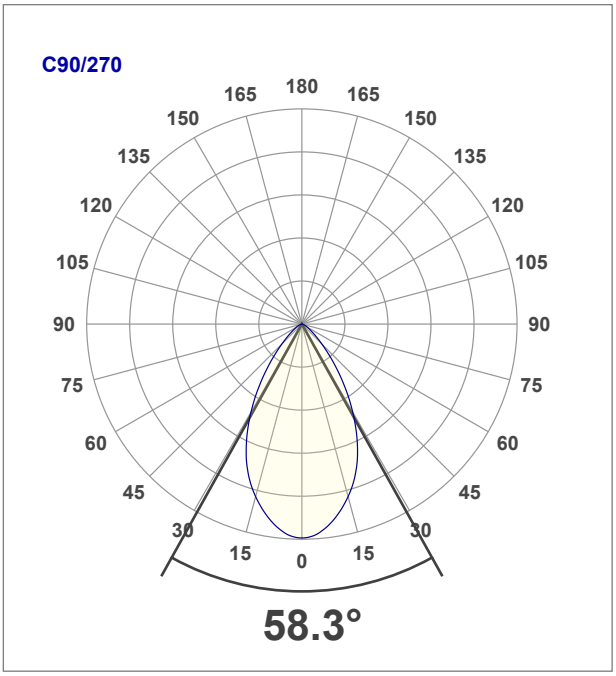
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	3200 lm
Ecodesign Energy Class	G

Intensity Ratio

In 120° cone	97.72%
In 90° cone	90.66%

Angular Distribution





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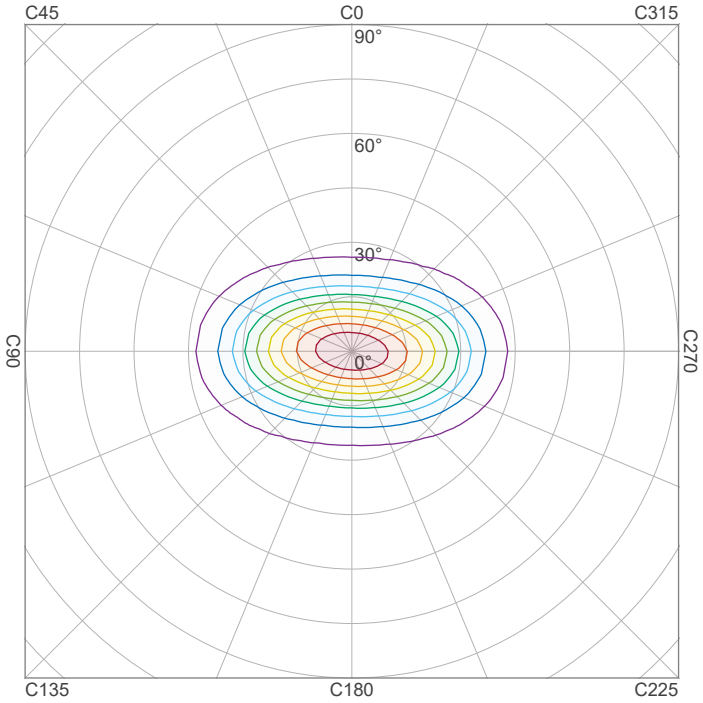
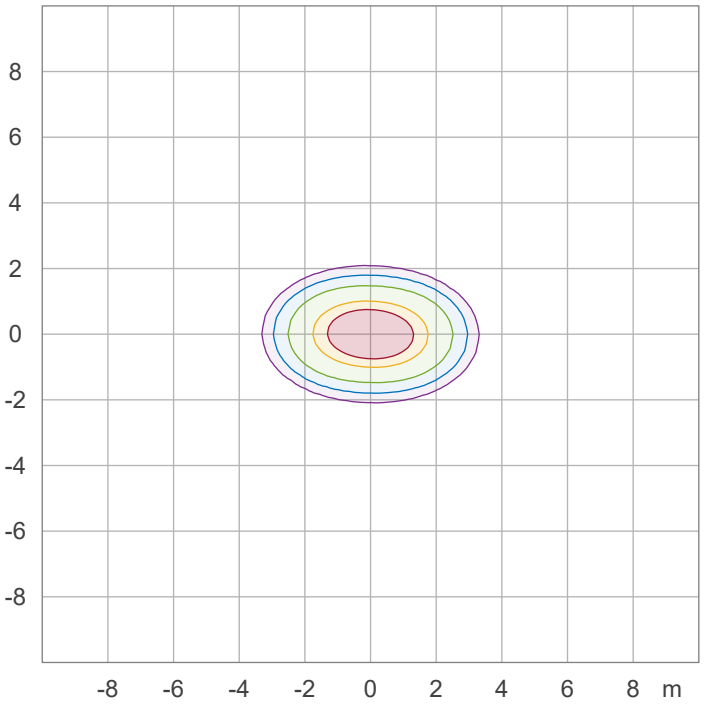
Iso-intensity Diagram (Iso-candela)



90 %	5229.2 cd
80 %	4648.2 cd
70 %	4067.2 cd
60 %	3486.1 cd
50 %	2905.1 cd
40 %	2324.1 cd
30 %	1743.1 cd
20 %	1162.1 cd
10 %	581.0 cd

Peak intensity: 5810.2 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	323 lx
30.0 %	194 lx
10.0 %	64.6 lx
5.0 %	32.3 lx
3.0 %	19.4 lx

Peak illuminance: 646 lx
Mounting height: 3 m
Number of c-planes: 36

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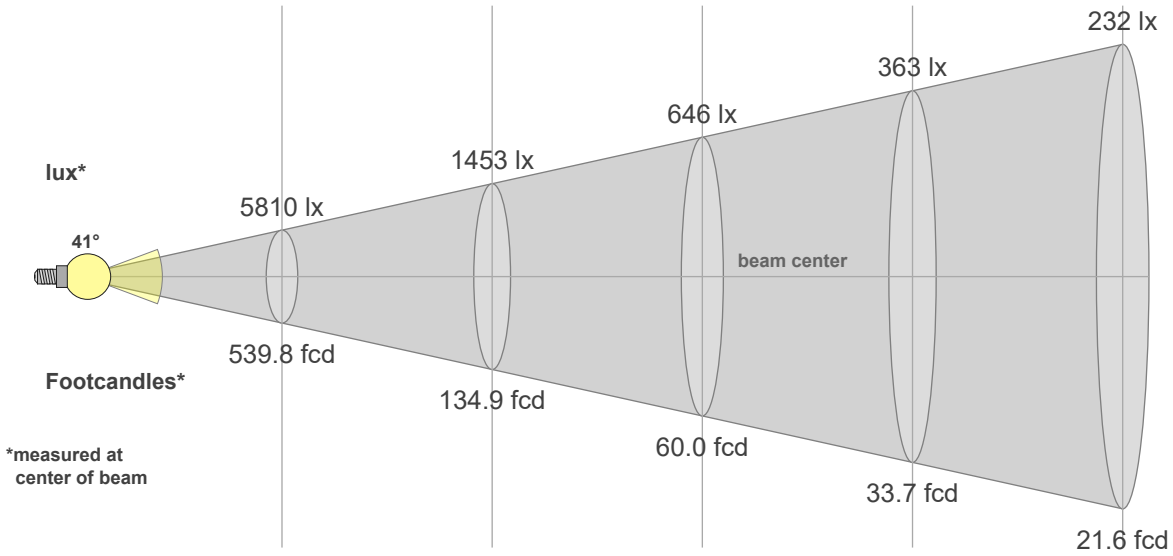
Beam details

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)	0.7 m	1.5 m	2.2 m	3 m	3.7 m
Beam width (feet)	2.5 ft	4.9 ft	7.4 ft	9.8 ft	12.3 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
5810	1453	646	363	232	161	119	91	72	58	48	40	34	30	26	23	20	18	16	15	lux
539.8	134.9	60	33.7	21.6	15	11	8.4	6.7	5.4	4.5	3.7	3.2	2.8	2.4	2.1	1.9	1.7	1.5	1.3	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
5810	5738	5517	5175	4739	4241	3713	3176	2650	2163	1724	1355	1050	811	634	504	405	337	285	245	cd
100%	99%	95%	89%	82%	73%	64%	55%	46%	37%	30%	23%	18%	14%	11%	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
5810	5792	5729	5620	5485	5325	5148	4956	4752	4530	4283	4017	3720	3411	3089	2765	2446	2125	1825	1540	cd
100%	100%	99%	97%	94%	92%	89%	85%	82%	78%	74%	69%	64%	59%	53%	48%	42%	37%	31%	26%	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
5810	5738	5517	5175	4739	4241	3713	3176	2650	2163	1724	1355	1050	811	634	504	405	337	285	245	cd
100%	99%	95%	89%	82%	73%	64%	55%	46%	37%	30%	23%	18%	14%	11%	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
5810	5792	5729	5620	5485	5325	5148	4956	4752	4530	4283	4017	3720	3411	3089	2765	2446	2125	1825	1540	cd
100%	100%	99%	97%	94%	92%	89%	85%	82%	78%	74%	69%	64%	59%	53%	48%	42%	37%	31%	26%	of 0°val

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Power details

Input power	
Frequency of input power	0.0 Hz
Power feed to light source	128.5 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	128.5 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

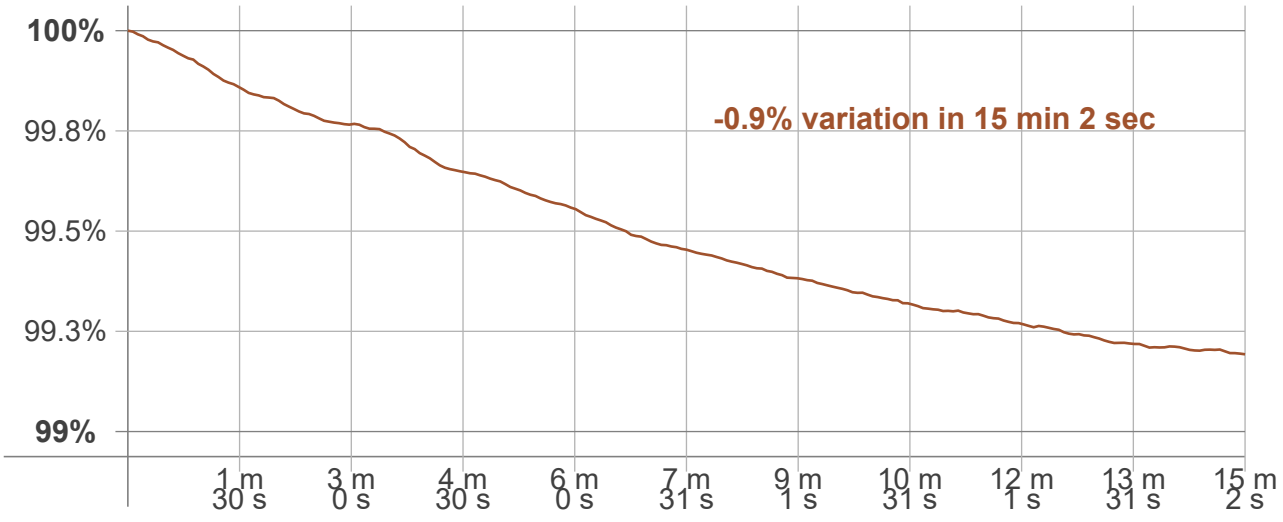
Efficiency

Radiated power efficiency	14.27
Lumen efficiency	27.46 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 2 sec	Output start	3559 lm
Warmup variation	-0.8744%	Output change	-29.437 lm
		Output end	3529 lm

Stabilization Curve



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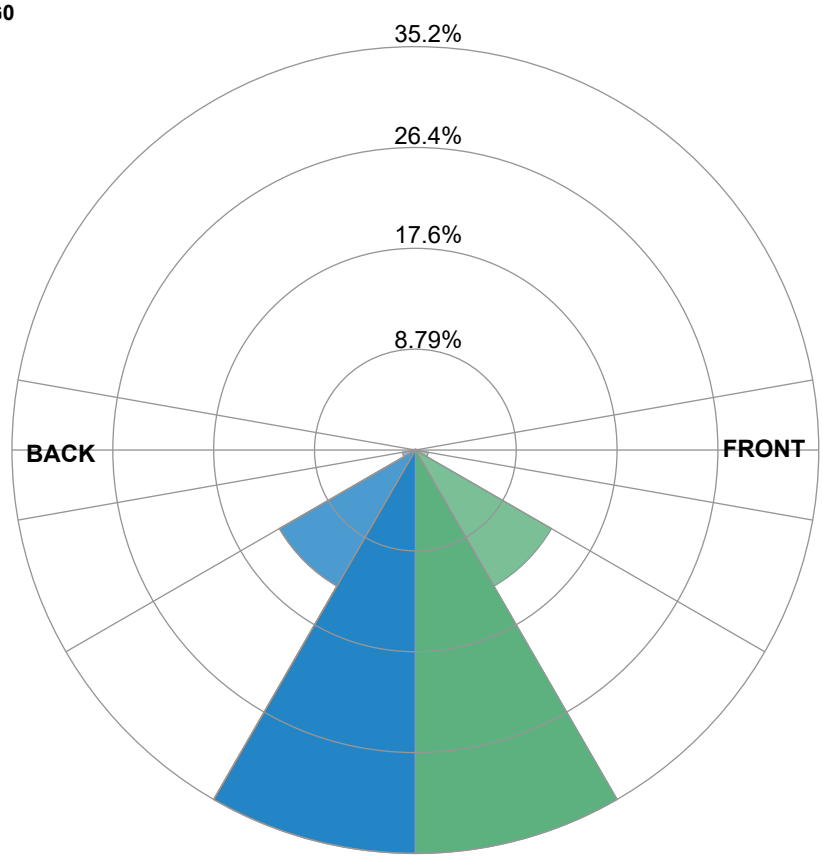
FL200-G2-XXX-RGBW3083-OM-6030-INF-XXXXX-X (R)

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

Forward Light			
Low (0-30°)	1240	lm	35.2%
Medium (30-60°)	483	lm	13.7%
High (60-80°)	40.4	lm	1.15%
Very High (80-90°)	0.0734	lm	0.00208%
Back Light			
Low (0-30°)	1240	lm	35.2%
Medium (30-60°)	483	lm	13.7%
High (60-80°)	40.4	lm	1.15%
Very High (80-90°)	0.0734	lm	0.00208%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	3529	lm	100%

BUG RATING B3 U0 G0