Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-90-INF-XXXXX-X (ALL ON)

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.25-8875-VO
Measurement date	2026-05-25

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	5.00°
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

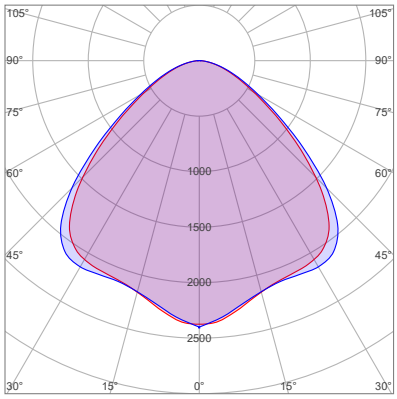
Tested Light Source

Product family	FL200-G2
Luminaire configuration	FL200-G2-XXX-RGBW3083-OM-90-INF-XXXXX-X (ALL ON)
Manufacturer	GVA Lighting, Inc.
Size (width x length x height)	106 mm 0 mm x 430 mm

Main Light Measurement Results

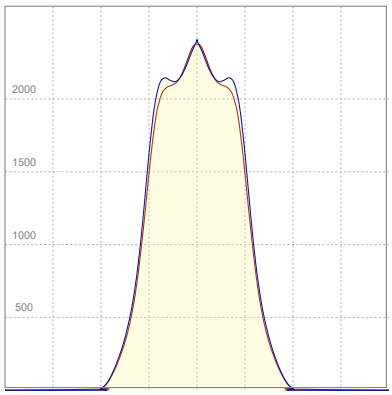
Output – Total Lumen	5786 - 0.5258% / 99.47%
Efficiency	44.88 lm/W
Peak Intensity	2397
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	98.5°
Beam Angle (FWHM) | C90/270	100.7°
Field Angle (10%) | C0/180	143.7°Unit: 0-100% of peak intensity
Optical Power	24517 mW
Peak Wavelength	453 nm
Dominant Wavelength	540 nm

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

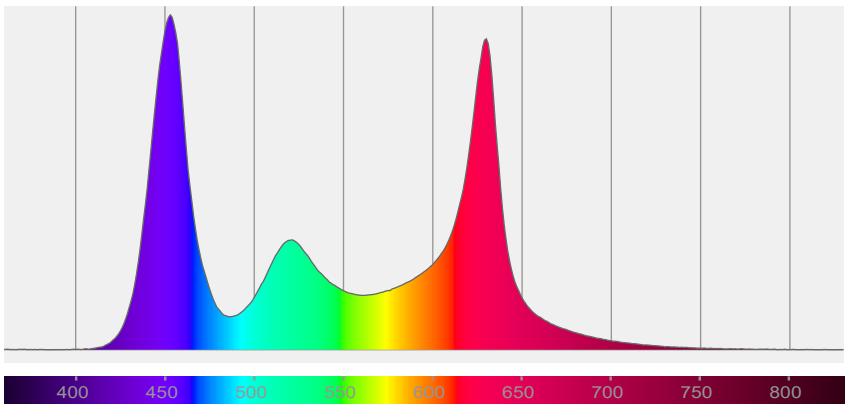


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

NaN K

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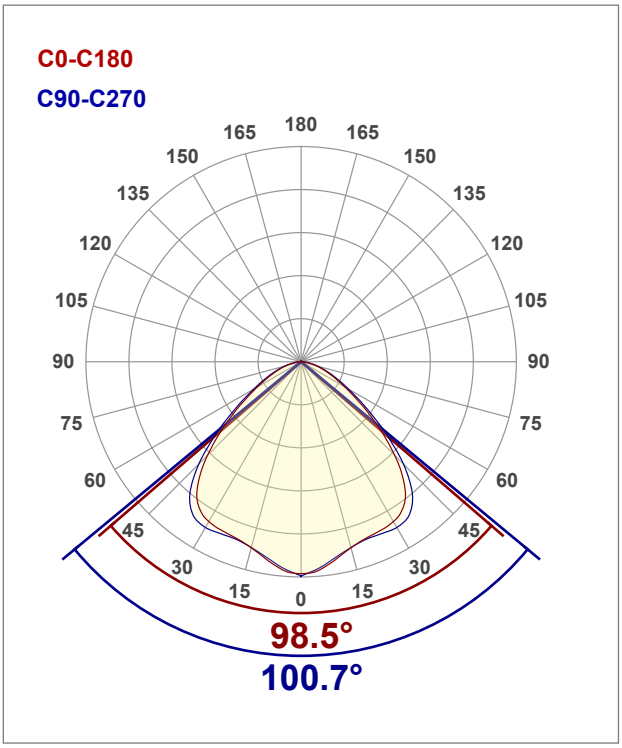
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	5786 lm
Lumen Up% / Down%	0.5258% / 99.47%
Peak Intensity	2397 cd
Beam Angle (50%-FWHM)	100.9°

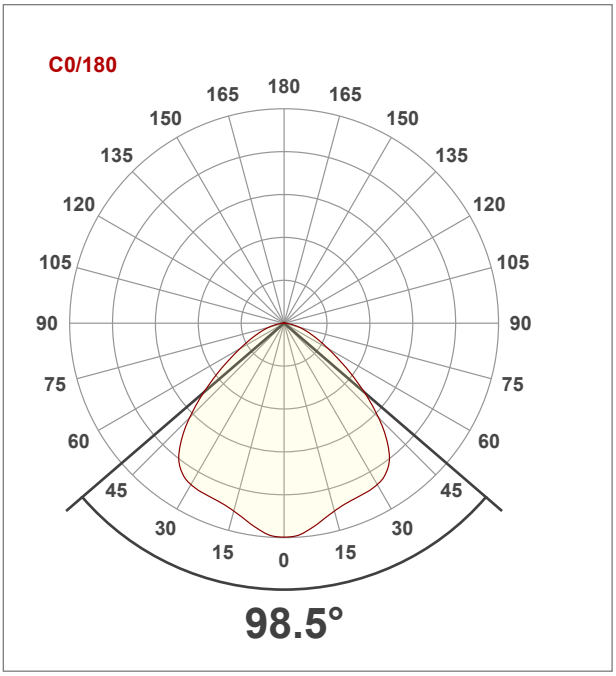
EU Ecodesign parameters

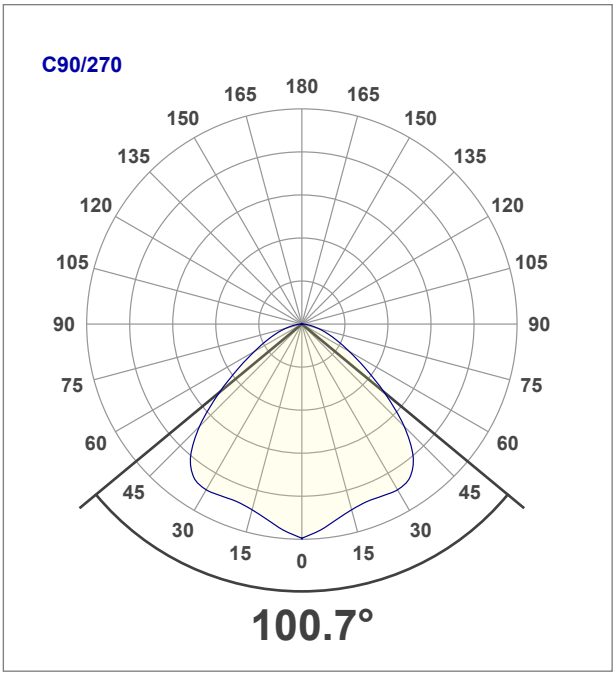
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	5082 lm
Ecodesign Energy Class	G

Intensity Ratio

In 120° cone	87.83%
In 90° cone	64.42%

Angular Distribution





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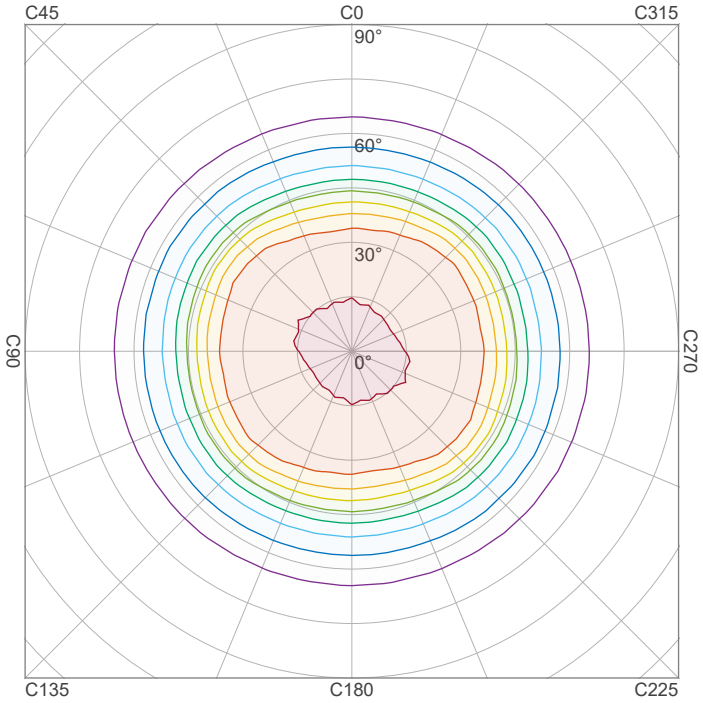
Iso-intensity Diagram (Iso-candela)

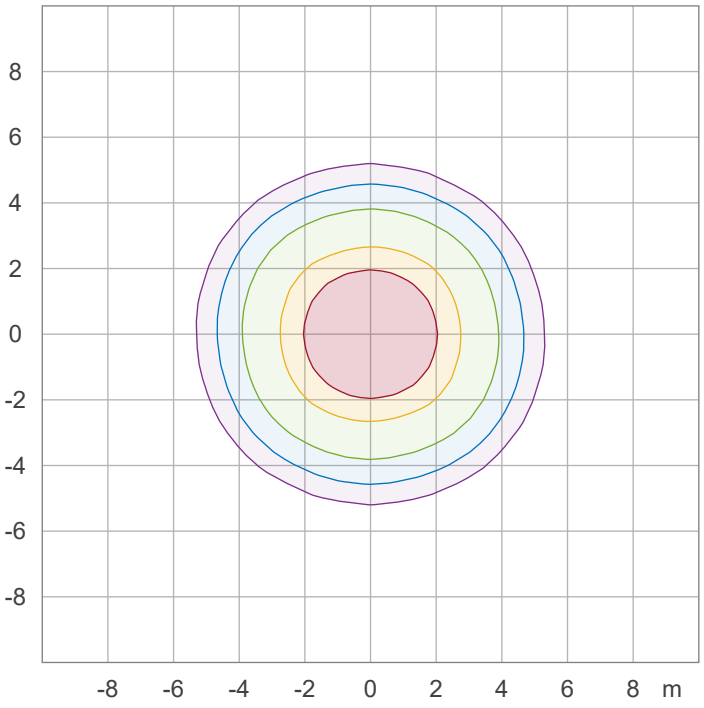


90 %	2145.7 cd
80 %	1907.3 cd
70 %	1668.9 cd
60 %	1430.5 cd
50 %	1192.1 cd
40 %	953.6 cd
30 %	715.2 cd
20 %	476.8 cd
10 %	238.4 cd

Peak intensity: 2384.1 cd

Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	132 lx
30.0 %	79.4 lx
10.0 %	26.5 lx
5.0 %	13.2 lx
3.0 %	7.94 lx

Peak illuminance: 265 lx

Mounting height: 3 m

Number of c-planes: 36

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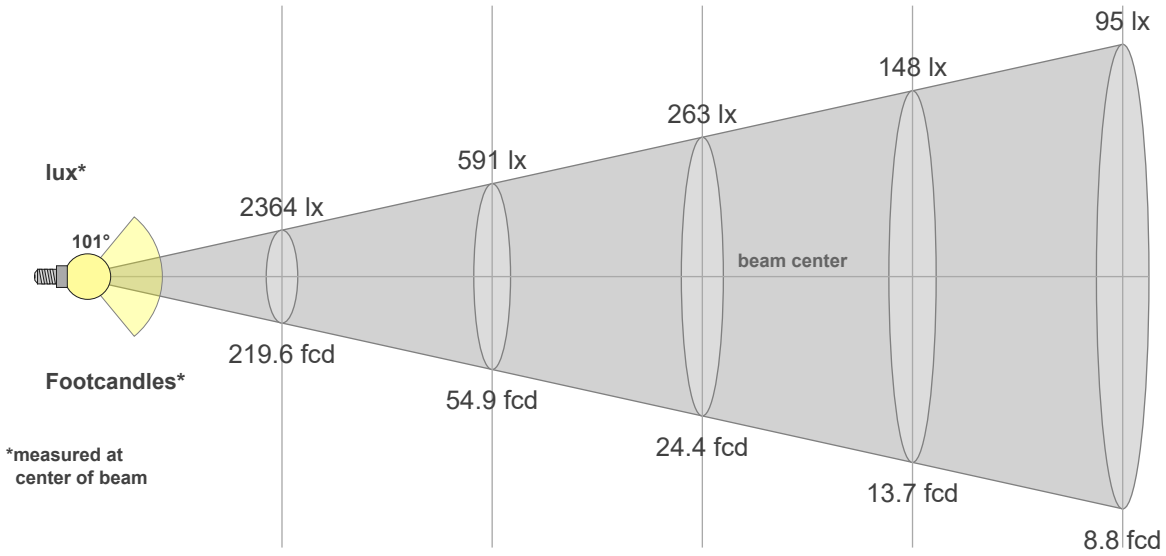
Beam details

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)	2.4 m	4.8 m	7.3 m	9.7 m	12.1 m
Beam width (feet)	7.9 ft	15.9 ft	23.8 ft	31.8 ft	39.7 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
2364	591	263	148	95	66	48	37	29	24	20	16	14	12	11	9	8	7	7	6	lux
219.6	54.9	24.4	13.7	8.8	6.1	4.5	3.4	2.7	2.2	1.8	1.5	1.3	1.1	1	0.9	0.8	0.7	0.6	0.5	fc

Intensities in 0° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	γ
2364	2335	2248	2163	2112	2090	2062	1981	1789	1481	1132	817	573	401	275	178	100	40	7	7	cd
100%	99%	95%	92%	89%	88%	87%	84%	76%	63%	48%	35%	24%	17%	12%	8%	4%	2%	0%	0%	of 0°val

Intensities in 90° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	γ
2364	2321	2227	2156	2120	2127	2144	2104	1938	1620	1226	875	614	434	299	192	107	45	7	0	cd
100%	98%	94%	91%	90%	90%	91%	89%	82%	69%	52%	37%	26%	18%	13%	8%	5%	2%	0%	0%	of 0°val

Intensities in 180° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	γ
2364	2335	2248	2163	2112	2090	2062	1981	1789	1481	1132	817	573	401	275	178	100	40	7	7	cd
100%	99%	95%	92%	89%	88%	87%	84%	76%	63%	48%	35%	24%	17%	12%	8%	4%	2%	0%	0%	of 0°val

Intensities in 270° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	γ
2364	2321	2227	2156	2120	2127	2144	2104	1938	1620	1226	875	614	434	299	192	107	45	7	0	cd
100%	98%	94%	91%	90%	90%	91%	89%	82%	69%	52%	37%	26%	18%	13%	8%	5%	2%	0%	0%	of 0°val

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FL200-G2-XXX-RGBW3083-OM-90-INF-XXXXX-X (ALL ON)

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

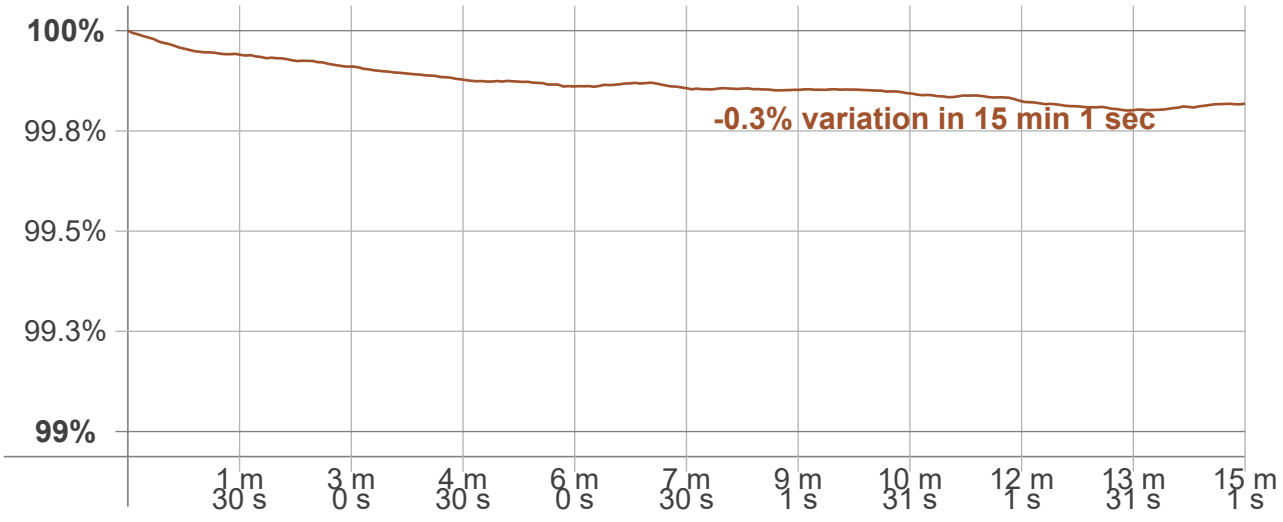
Efficiency

Radiated power efficiency	19.02
Lumen efficiency	44.88 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	5798 lm
Warmup variation	-0.2507%	Output change	-11.449 lm
		Output end	5786 lm

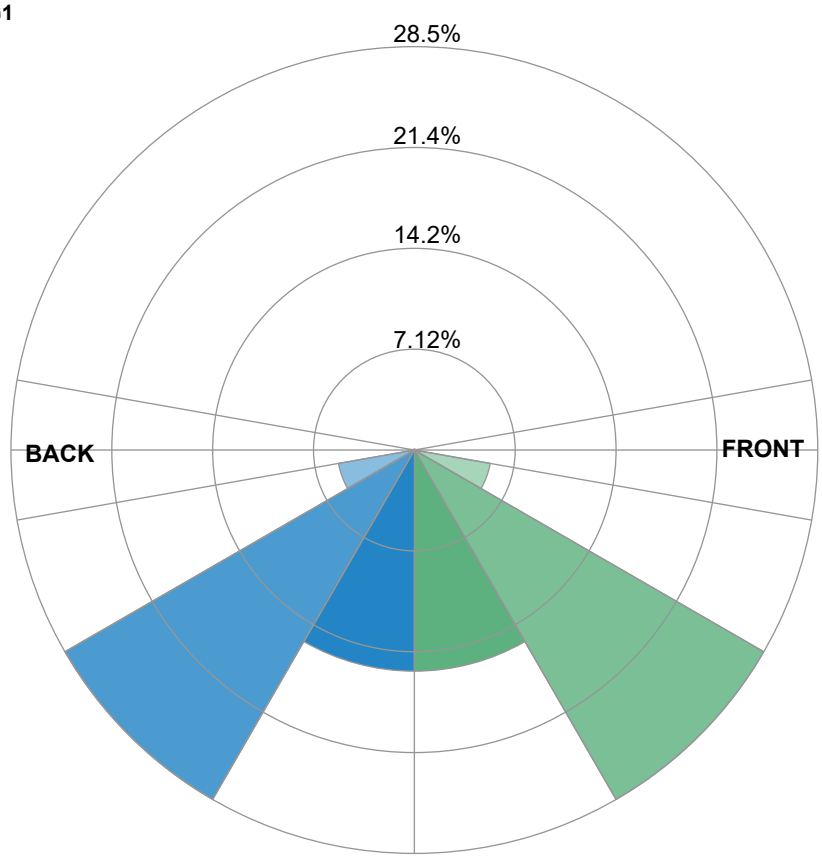
Stabilization Curve



Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-90-INF-XXXXX-X (ALL ON)

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

Forward Light			
Low (0-30°)	904	lm	15.6%
Medium (30-60°)	1650	lm	28.5%
High (60-80°)	315	lm	5.44%
Very High (80-90°)	26.3	lm	0.454%
Back Light			
Low (0-30°)	904	lm	15.6%
Medium (30-60°)	1650	lm	28.5%
High (60-80°)	315	lm	5.44%
Very High (80-90°)	26.3	lm	0.454%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	5786	lm	100%

BUG RATING B2 U0 G1