Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-80-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.May.26-8887-VO
Measurement date	2026-05-26

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	3.00°
Input Power	128.2 W

Electrical Data

Input Power	128.2 W
Input Voltage	381.4 V DC
Input Current	0.34 A
Power Factor	1.00

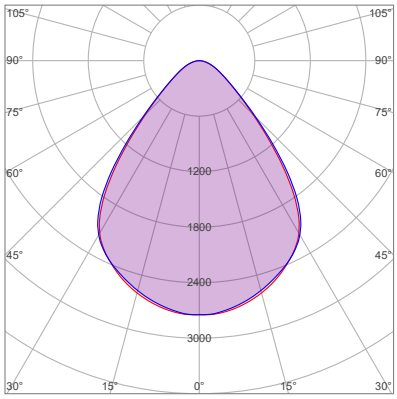
Tested Light Source

Product family	FL200-G2
Luminaire configuration	FL200-G2-XXX-RGBW3083-OM-80-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

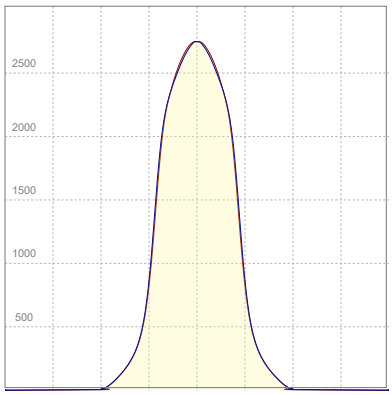
Output – Total Lumen	4557 - 0.4826% / 99.52%
Efficiency	35.56 lm/W
Peak Intensity	2752
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	78.2°
Beam Angle (FWHM) | C90/270	79.6°
Field Angle (10%) | C0/180	118.8°Unit: 0-100% of peak intensity
Optical Power	9468 mW
Peak Wavelength	522 nm
Dominant Wavelength	527 nm

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

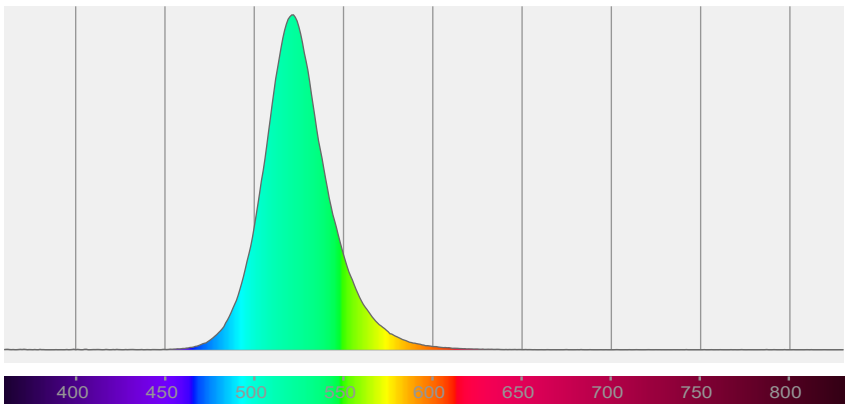


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

NaN K

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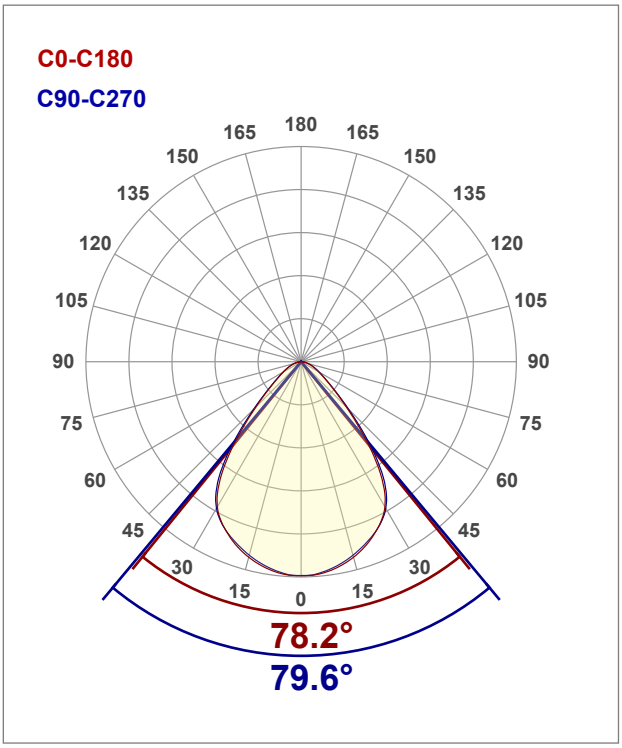
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	4557 lm
Lumen Up% / Down%	0.4826% / 99.52%
Peak Intensity	2752 cd
Beam Angle (50%-FWHM)	79.3°

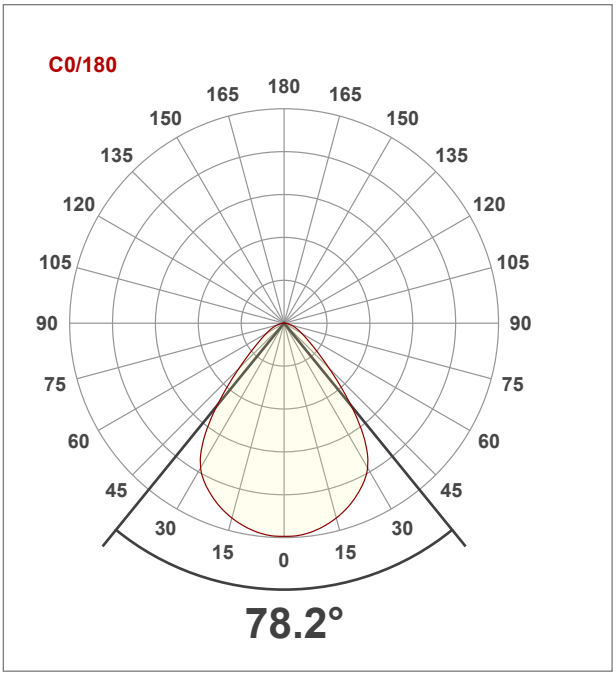
EU Ecodesign parameters

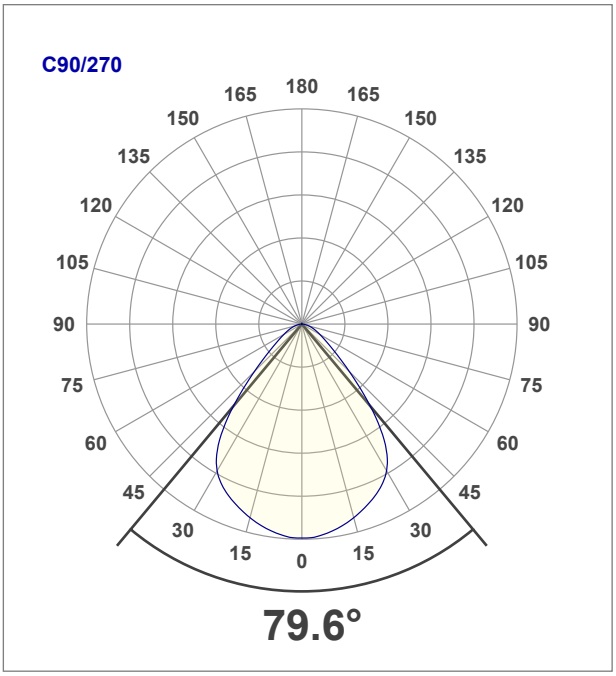
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	3596 lm
Ecodesign Energy Class	G

Intensity Ratio

In 120° cone	92.42%
In 90° cone	78.92%

Angular Distribution





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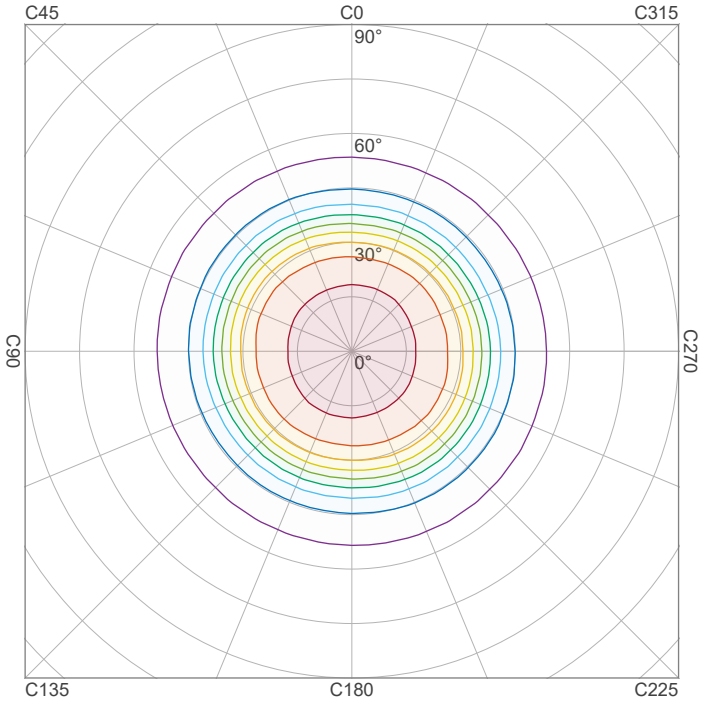
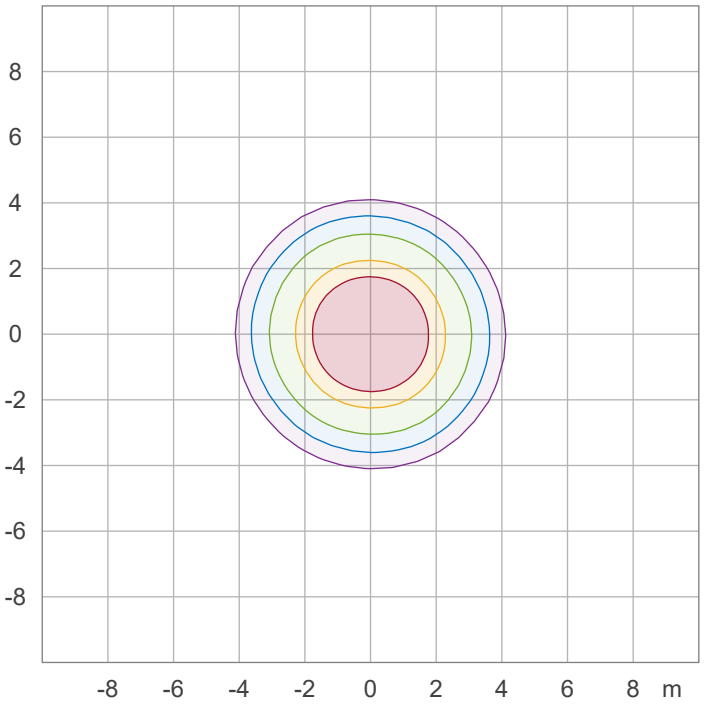
Iso-intensity Diagram (Iso-candela)



90 %	2476.2 cd
80 %	2201.0 cd
70 %	1925.9 cd
60 %	1650.8 cd
50 %	1375.6 cd
40 %	1100.5 cd
30 %	825.4 cd
20 %	550.3 cd
10 %	275.1 cd

Peak intensity: 2751.3 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	153 lx
30.0 %	91.7 lx
10.0 %	30.6 lx
5.0 %	15.3 lx
3.0 %	9.17 lx

Peak illuminance: 306 lx
Mounting height: 3 m
Number of c-planes: 36

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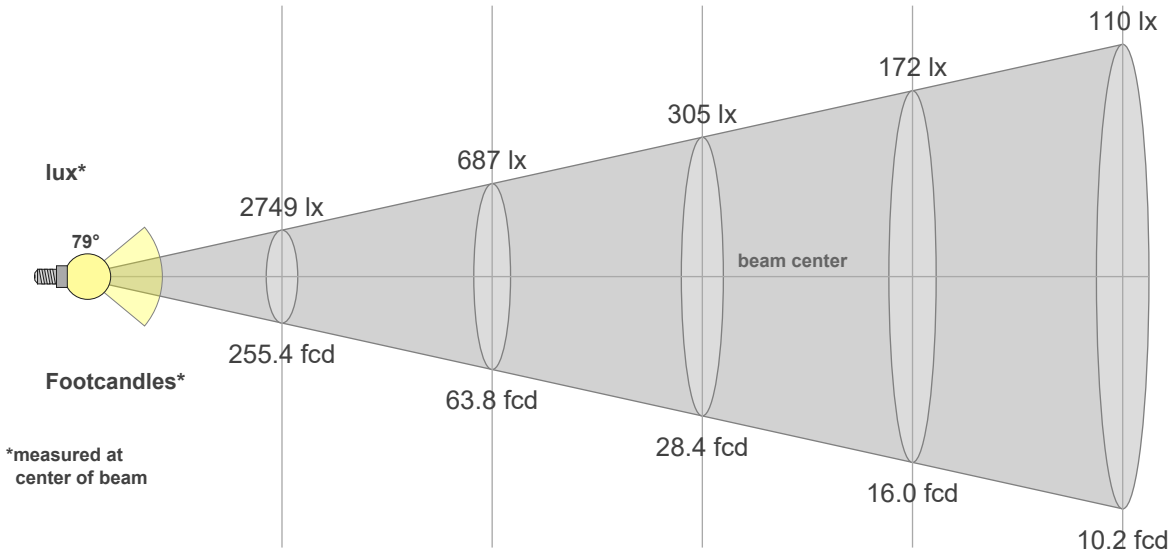
Beam details

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)	1.7 m	3.3 m	5 m	6.6 m	8.3 m
Beam width (feet)	5.4 ft	10.9 ft	16.3 ft	21.7 ft	27.2 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
2749	687	305	172	110	76	56	43	34	27	23	19	16	14	12	11	10	8	8	7	lux
255.4	63.8	28.4	16	10.2	7.1	5.2	4	3.2	2.6	2.1	1.8	1.5	1.3	1.1	1	0.9	0.8	0.7	0.6	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
2749	2735	2681	2599	2487	2343	2146	1790	1282	825	534	368	265	195	140	94	54	23	6	5	cd
100%	99%	98%	95%	90%	85%	78%	65%	47%	30%	19%	13%	10%	7%	5%	3%	2%	1%	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
2749	2723	2659	2572	2466	2344	2169	1852	1353	867	550	374	268	196	141	95	54	24	5	4	cd
100%	99%	97%	94%	90%	85%	79%	67%	49%	32%	20%	14%	10%	7%	5%	3%	2%	1%	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
2749	2735	2681	2599	2487	2343	2146	1790	1282	825	534	368	265	195	140	94	54	23	6	5	cd
100%	99%	98%	95%	90%	85%	78%	65%	47%	30%	19%	13%	10%	7%	5%	3%	2%	1%	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
2749	2723	2659	2572	2466	2344	2169	1852	1353	867	550	374	268	196	141	95	54	24	5	4	cd
100%	99%	97%	94%	90%	85%	79%	67%	49%	32%	20%	14%	10%	7%	5%	3%	2%	1%	0%	0%	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	381.4 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

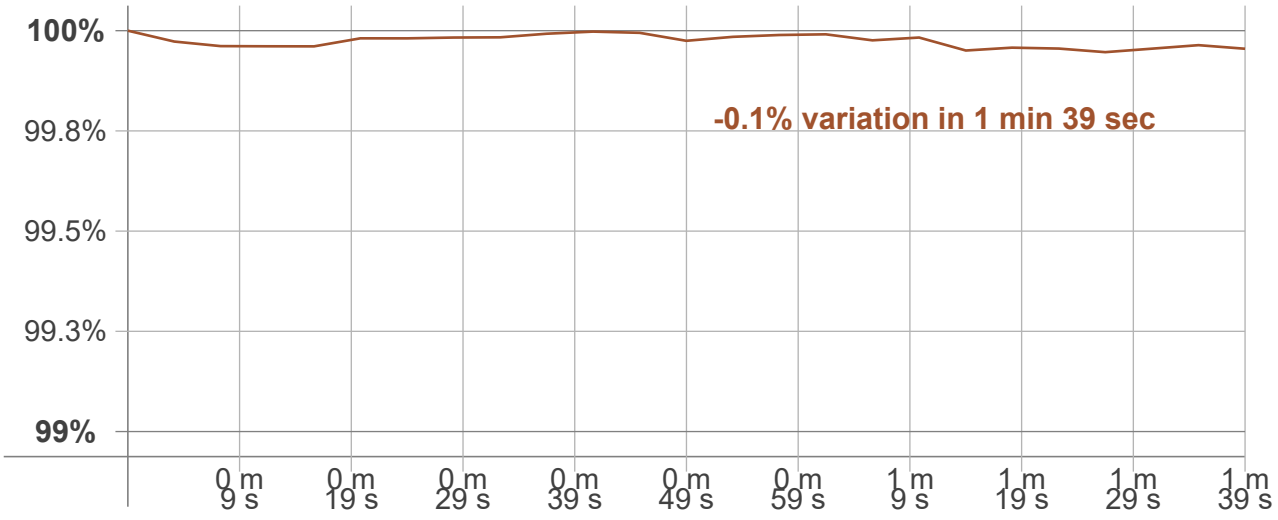
Efficiency

Radiated power efficiency	7.388
Lumen efficiency	35.56 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	4558 lm
Warmup variation	-0.0733%	Output change	-0.9432 lm
		Output end	4557 lm

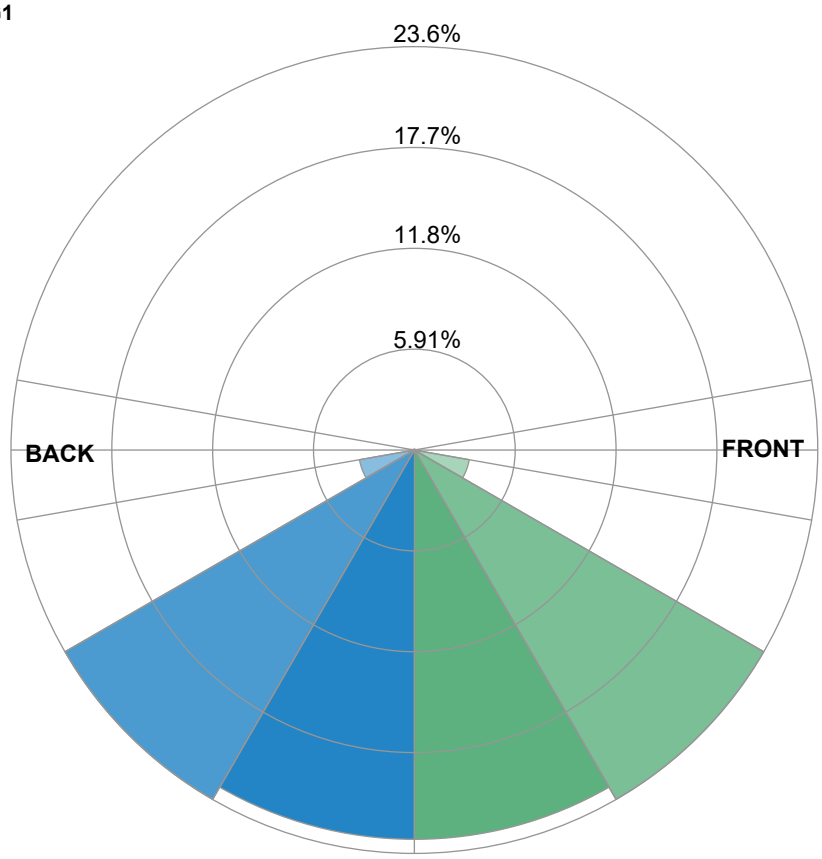
Stabilization Curve



Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-80-INF-XXXXX-X (G)

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

Forward Light			
Low (0-30°)	1040	lm	22.8%
Medium (30-60°)	1080	lm	23.6%
High (60-80°)	149	lm	3.26%
Very High (80-90°)	14.0	lm	0.308%
Back Light			
Low (0-30°)	1040	lm	22.8%
Medium (30-60°)	1080	lm	23.6%
High (60-80°)	149	lm	3.26%
Very High (80-90°)	14.0	lm	0.308%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	4557	lm	100%

BUG RATING B3 U0 G1