Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-80-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.27-8941-VO
Measurement date	2026-05-27

Measurement Conditions

Tested c-planes	24 planes – 15.00°
Tested gamma resolution	3.00°
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

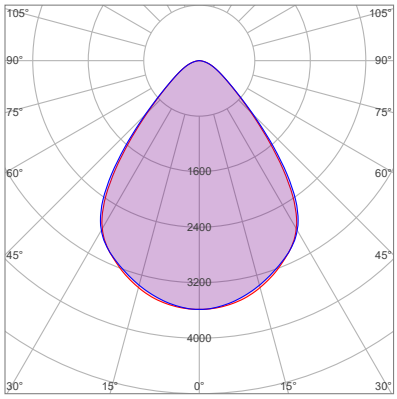
Tested Light Source

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

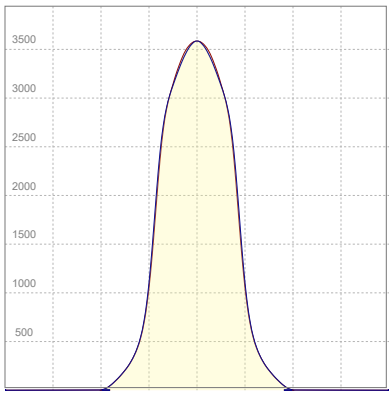
Output – Total Lumen	5847 - 0.1644% / 99.84%
Efficiency	45.36 lm/W
Peak Intensity	3585
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	78.0°
Beam Angle (FWHM) | C90/270	79.3°
Field Angle (10%) | C0/180	117.5°Unit: 0-100% of peak intensity
Optical Power	24787 mW
Peak Wavelength	453 nm
Dominant Wavelength	541 nm

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

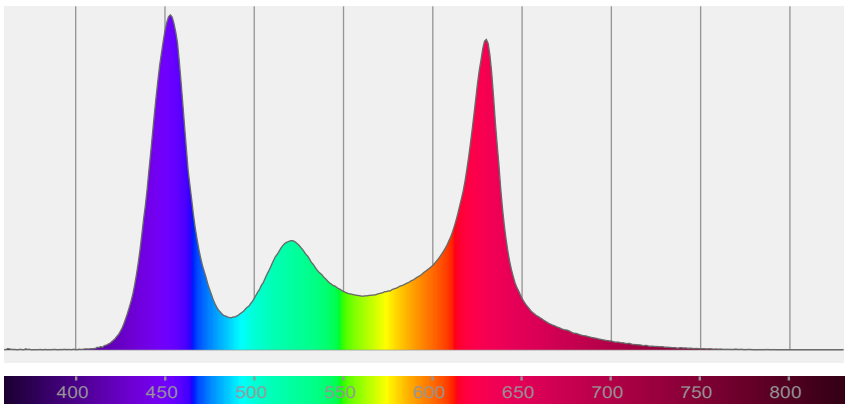


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

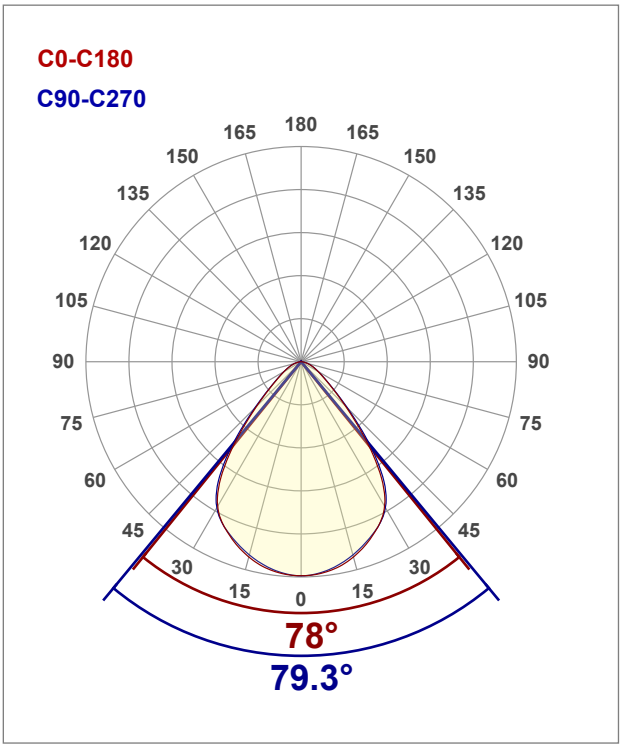
NaN K

Photometric Test Report

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

Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	5847 lm
Lumen Up% / Down%	0.1644% / 99.84%
Peak Intensity	3585 cd
Beam Angle (50%-FWHM)	79.1°

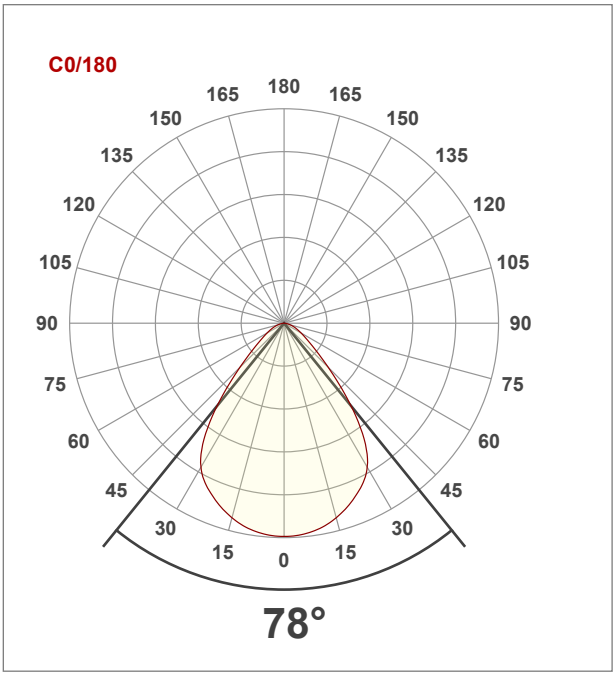
EU Ecodesign parameters

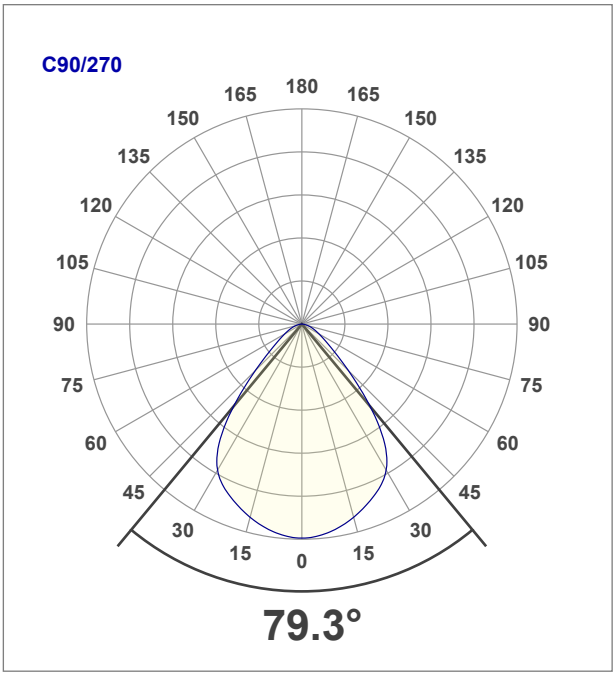
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	4673 lm
Ecodesign Energy Class	G

Intensity Ratio

In 120° cone	93.24%
In 90° cone	79.92%

Angular Distribution

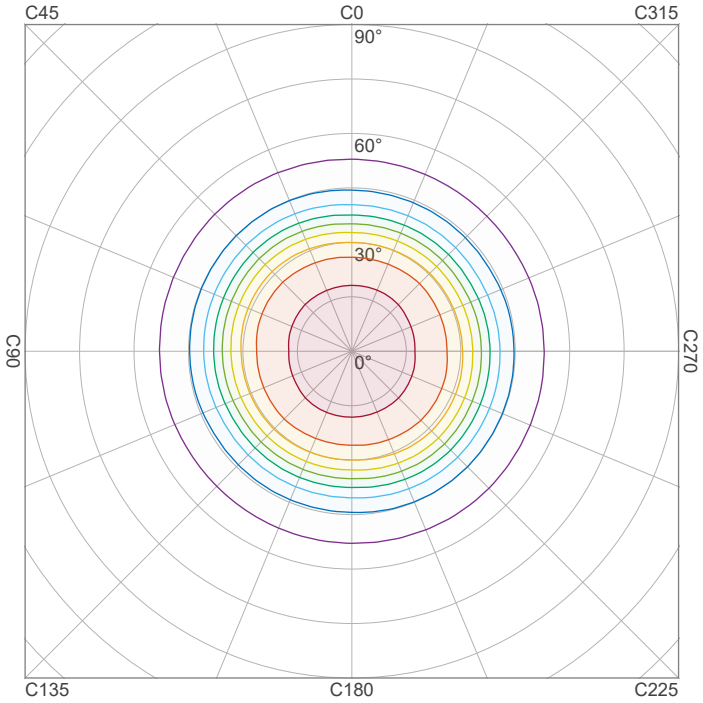




Photometric Test Report

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

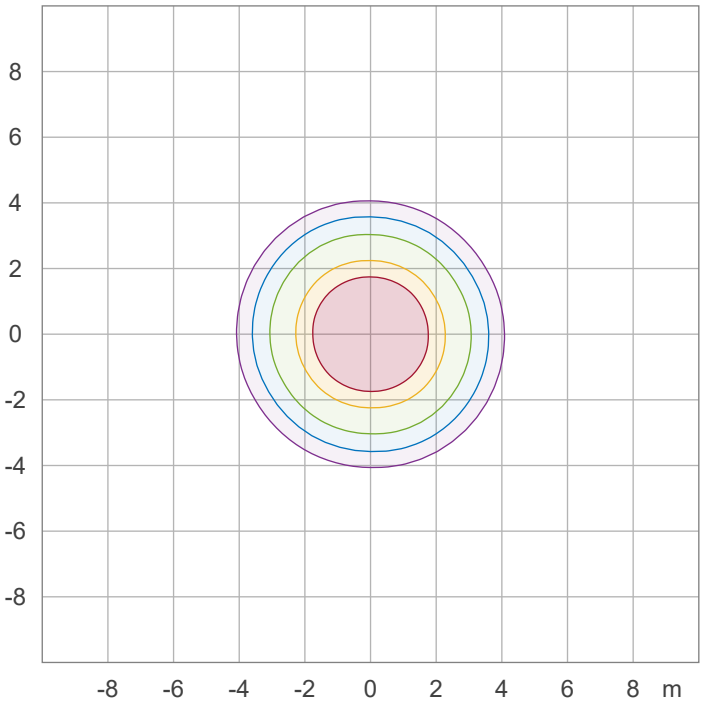
Iso-intensity Diagram (Iso-candela)



90 %	3226.3 cd
80 %	2867.8 cd
70 %	2509.3 cd
60 %	2150.9 cd
50 %	1792.4 cd
40 %	1433.9 cd
30 %	1075.4 cd
20 %	717.0 cd
10 %	358.5 cd

Peak intensity: 3584.8 cd
Number of c-planes: 24

Iso-illuminance Diagram (Iso-lux)



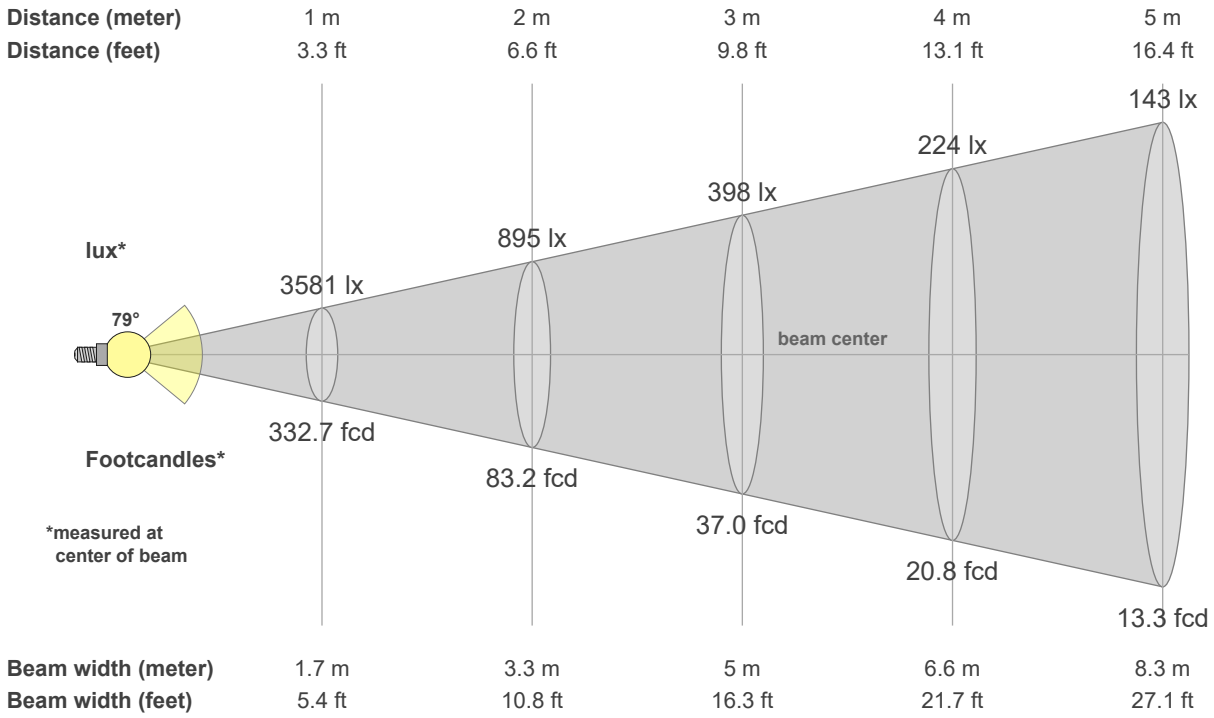
50.0 %	199 lx
30.0 %	119 lx
10.0 %	39.8 lx
5.0 %	19.9 lx
3.0 %	11.9 lx

Peak illuminance: 398 lx
Mounting height: 3 m
Number of c-planes: 24

Photometric Test Report

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

Beam details



Photometric Test Report

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

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
3581	895	398	224	143	99	73	56	44	36	30	25	21	18	16	14	12	11	10	9	lux
332.7	83.2	37	20.8	13.3	9.2	6.8	5.2	4.1	3.3	2.7	2.3	2	1.7	1.5	1.3	1.2	1	0.9	0.8	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
3581	3564	3499	3384	3232	3047	2786	2322	1653	1061	675	461	333	240	170	110	60	20	2	2	cd
100%	100%	98%	94%	90%	85%	78%	65%	46%	30%	19%	13%	9%	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
3581	3551	3468	3349	3205	3046	2815	2400	1744	1113	693	469	334	242	172	112	60	21	2	2	cd
100%	99%	97%	94%	90%	85%	79%	67%	49%	31%	19%	13%	9%	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
3581	3564	3499	3384	3232	3047	2786	2322	1653	1061	675	461	333	240	170	110	60	20	2	2	cd
100%	100%	98%	94%	90%	85%	78%	65%	46%	30%	19%	13%	9%	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
3581	3551	3468	3349	3205	3046	2815	2400	1744	1113	693	469	334	242	172	112	60	21	2	2	cd
100%	99%	97%	94%	90%	85%	79%	67%	49%	31%	19%	13%	9%	7%	5%	3%	2%	1%	0%	0%	of 0°val

Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-80-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

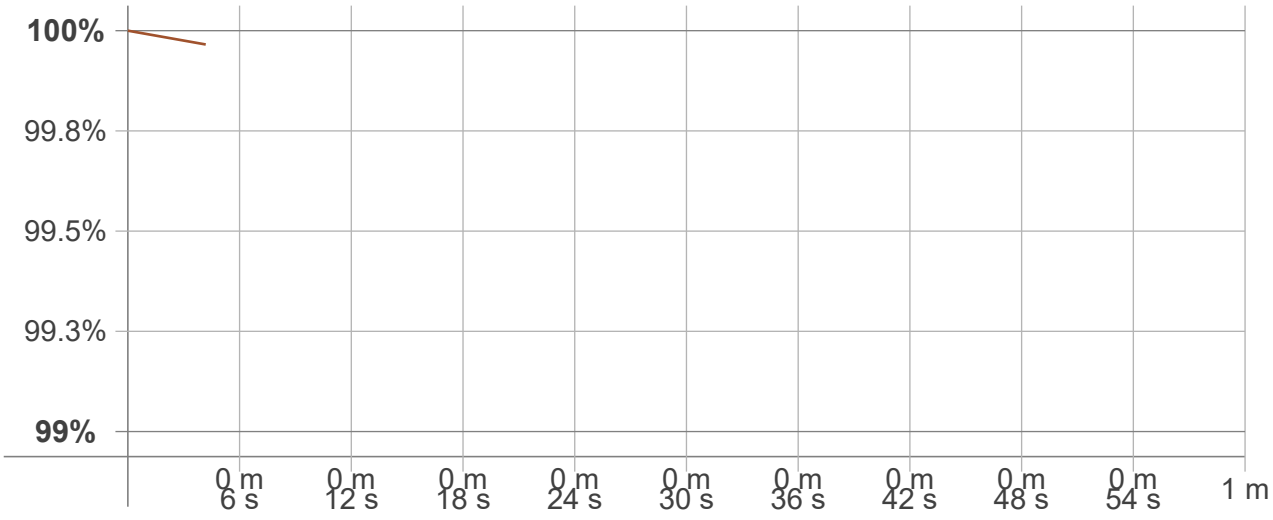
Efficiency

Radiated power efficiency	19.23
Lumen efficiency	45.36 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	5849 lm
Warmup variation	-0.0344%	Output change	-2.0143 lm
		Output end	5847 lm

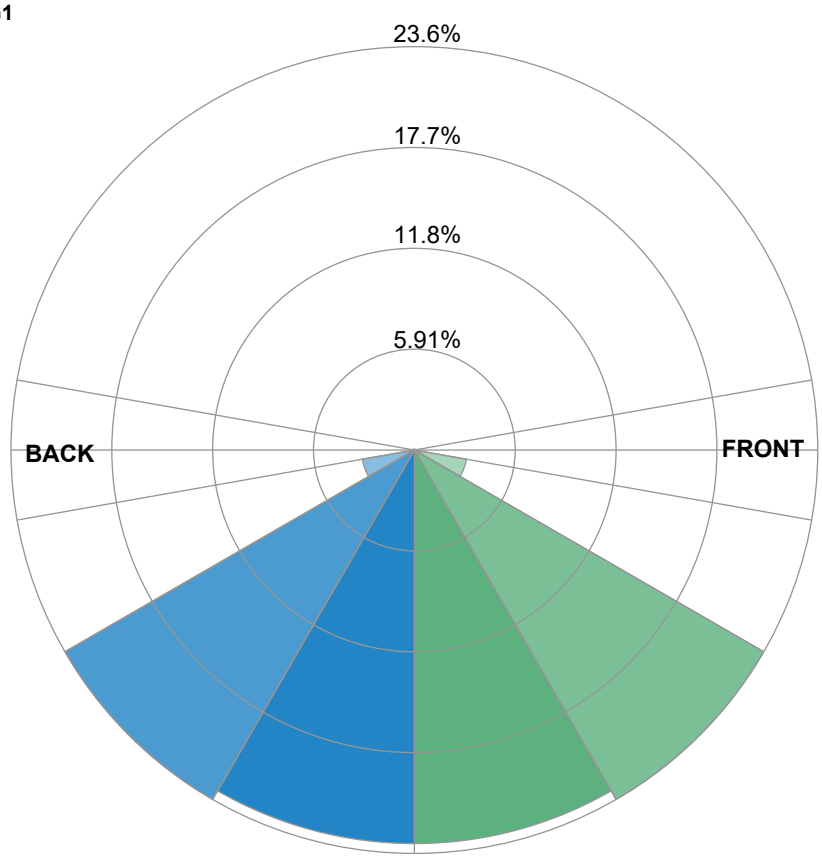
Stabilization Curve



Photometric Test Report

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

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

Forward Light			
Low (0-30°)	1350	lm	23.0%
Medium (30-60°)	1380	lm	23.6%
High (60-80°)	181	lm	3.09%
Very High (80-90°)	13.1	lm	0.224%
Back Light			
Low (0-30°)	1350	lm	23.0%
Medium (30-60°)	1380	lm	23.6%
High (60-80°)	181	lm	3.09%
Very High (80-90°)	13.1	lm	0.224%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	5847	lm	100%

BUG RATING B3 U0 G1