Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-10-INF-XXXXX-X (W)

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.16-7919-VO
Measurement date	2026-04-16

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	0.50°
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

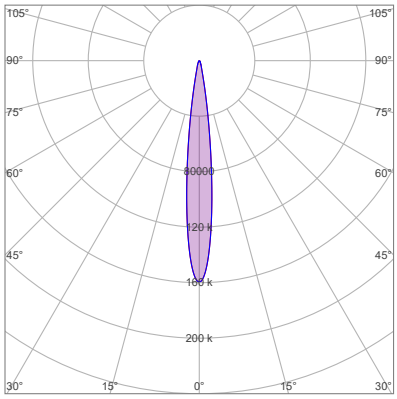
Tested Light Source

Product family	FL200-G2
Luminaire configuration	FL200-G2-XXX-RGBW3083-OM-10-INF-XXXXX-X (W)
Manufacturer	GVA Lighting, Inc.
Size (width x length x height)	106 mm 0 mm x 430 mm

Main Light Measurement Results

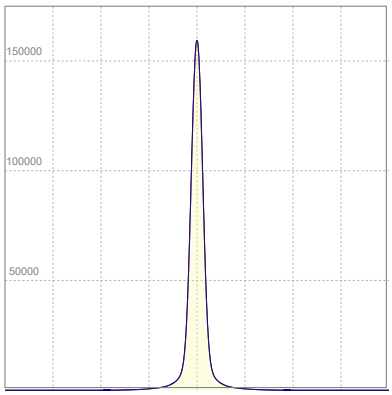
Output – Total Lumen	12748 - 0% / 100%
Efficiency	98.89 lm/W
Peak Intensity	159032
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	12.7°
Beam Angle (FWHM) | C90/270	12.7°
Field Angle (10%) | C0/180	23.9°Unit: 0-100% of peak intensity
Optical Power	38103 mW
Peak Wavelength	602 nm
Dominant Wavelength	584 nm

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

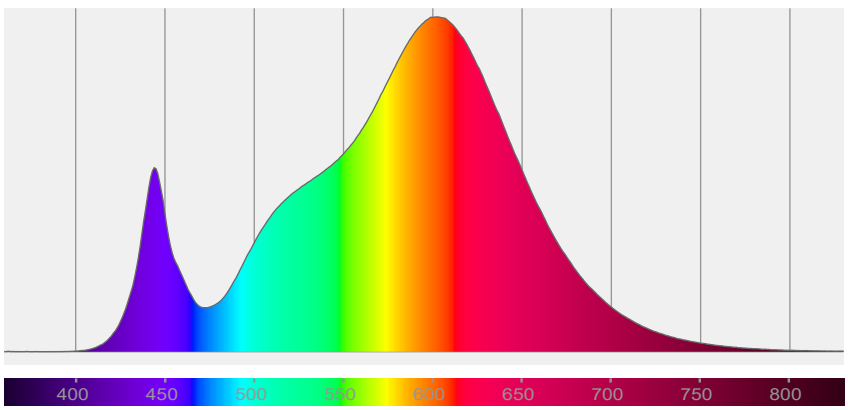


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

3000 K

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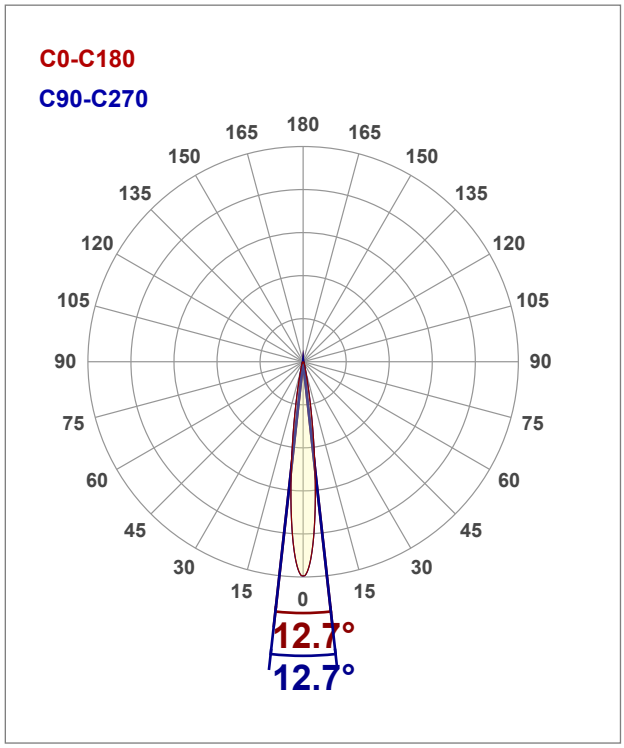
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	12748 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	159032 cd
Beam Angle (50%-FWHM)	12.7°

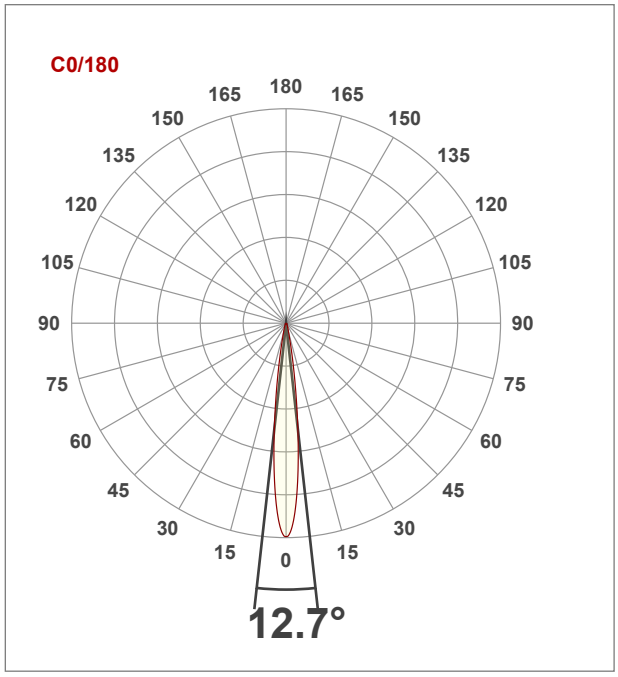
EU Ecodesign parameters

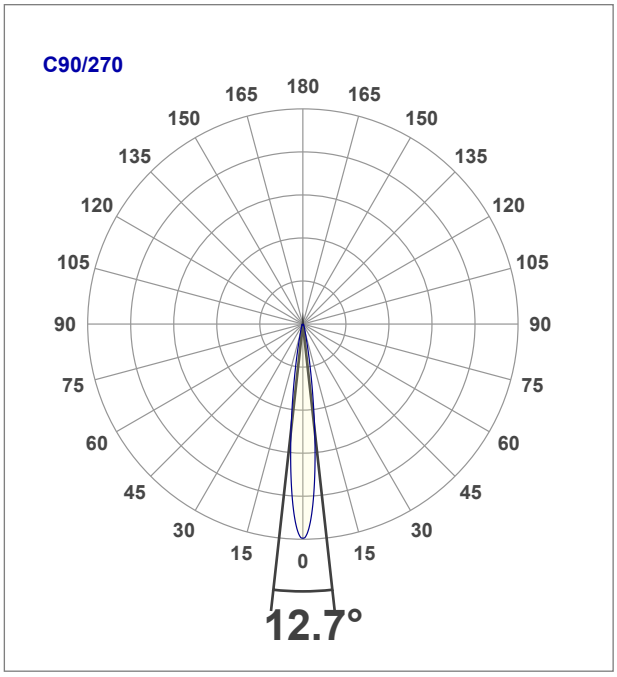
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	12.04 lm
Ecodesign Energy Class	F

Intensity Ratio

In 120° cone	98.38%
In 90° cone	94.44%

Angular Distribution





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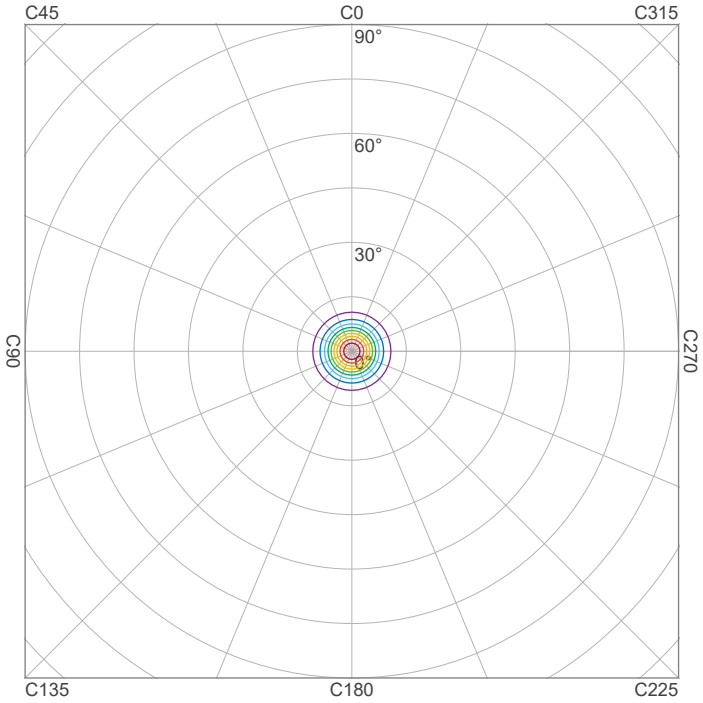
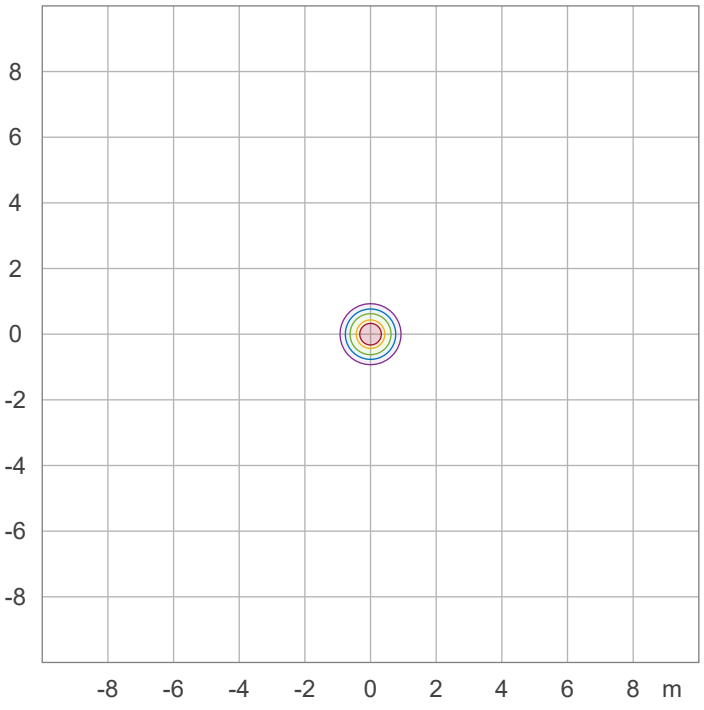
Iso-intensity Diagram (Iso-candela)



90 %	143128.4 cd
80 %	127225.3 cd
70 %	111322.1 cd
60 %	95418.9 cd
50 %	79515.8 cd
40 %	63612.6 cd
30 %	47709.5 cd
20 %	31806.3 cd
10 %	15903.2 cd

Peak intensity: 159031.6 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	8835 lx
30.0 %	5301 lx
10.0 %	1767 lx
5.0 %	884 lx
3.0 %	530 lx

Peak illuminance: 17670 lx
Mounting height: 3 m
Number of c-planes: 36

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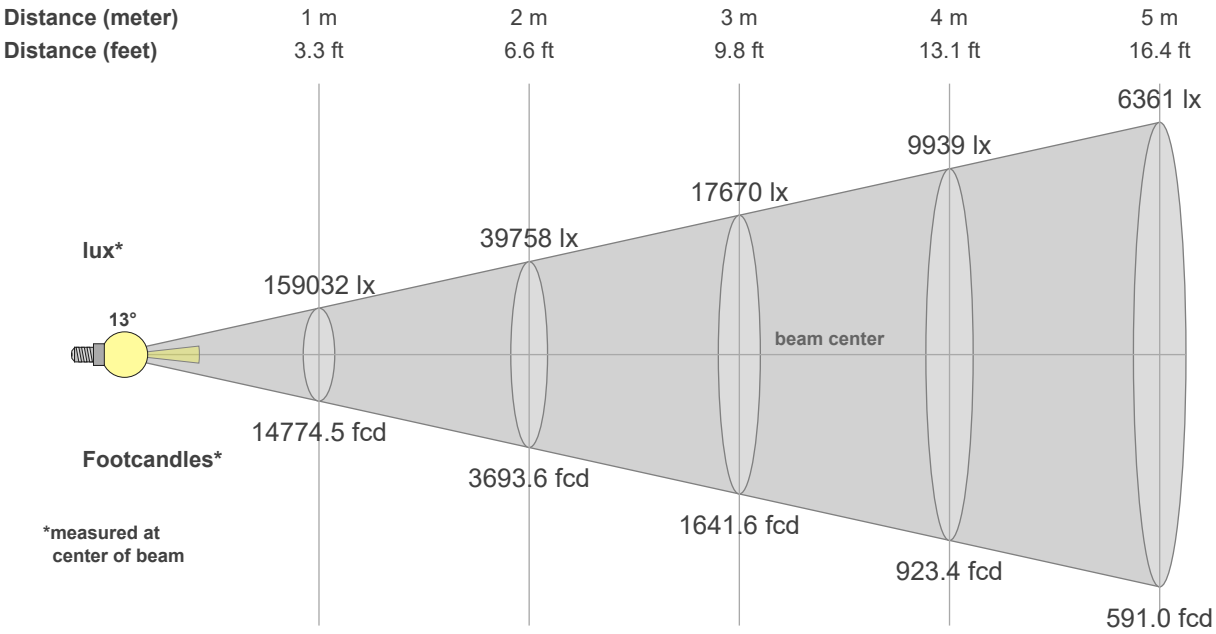
Beam details



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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
159032	39758	17670	9939	6361	4418	3246	2485	1963	1590	1314	1104	941	811	707	621	550	491	441	398	lux
14774.5	3693.6	1641.6	923.4	591	410.4	301.5	230.9	182.4	147.7	122.1	102.6	87.4	75.4	65.7	57.7	51.1	45.6	40.9	36.9	fc

Intensities in 0° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°	γ
159k	157k	149k	137k	121k	104k	85k	68k	53k	39k	29k	21k	16k	12k	9k	8k	6k	6k	5k	4k	cd
100%	99%	94%	86%	76%	65%	54%	43%	33%	25%	18%	13%	10%	7%	6%	5%	4%	4%	3%	3%	of 0°val

Intensities in 90° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°	γ
159k	157k	149k	137k	121k	104k	85k	68k	53k	39k	29k	21k	16k	12k	9k	8k	6k	6k	5k	4k	cd
100%	99%	94%	86%	76%	65%	54%	43%	33%	25%	18%	13%	10%	7%	6%	5%	4%	4%	3%	3%	of 0°val

Intensities in 180° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°	γ
159k	157k	149k	137k	121k	104k	85k	68k	53k	39k	29k	21k	16k	12k	9k	8k	6k	6k	5k	4k	cd
100%	99%	94%	86%	76%	65%	54%	43%	33%	25%	18%	13%	10%	7%	6%	5%	4%	4%	3%	3%	of 0°val

Intensities in 270° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°	γ
159k	157k	149k	137k	121k	104k	85k	68k	53k	39k	29k	21k	16k	12k	9k	8k	6k	6k	5k	4k	cd
100%	99%	94%	86%	76%	65%	54%	43%	33%	25%	18%	13%	10%	7%	6%	5%	4%	4%	3%	3%	of 0°val

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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

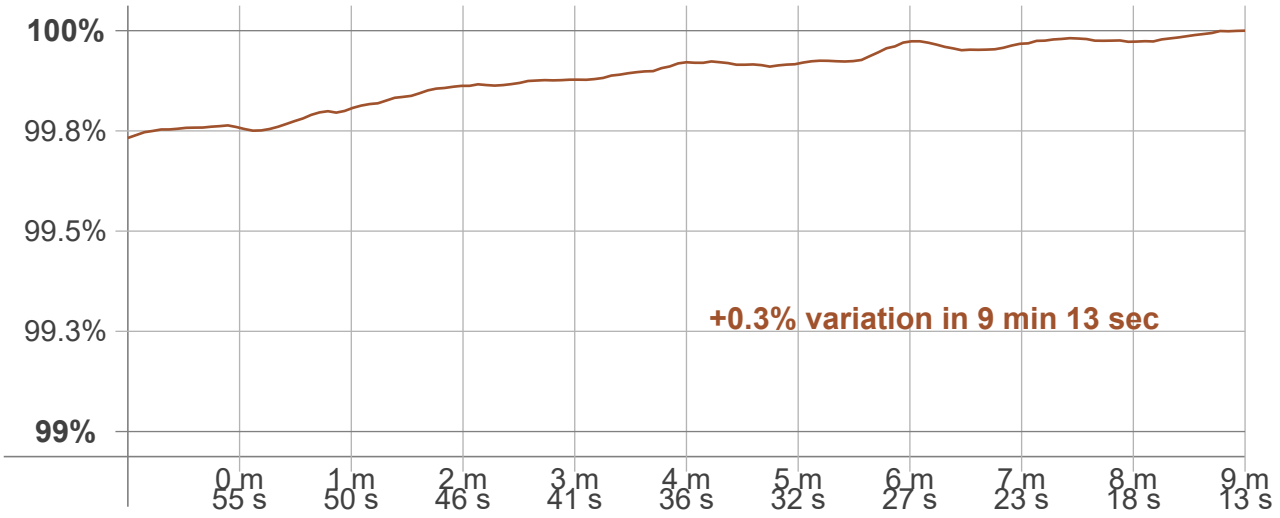
Efficiency

Radiated power efficiency	29.56
Lumen efficiency	98.89 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	12.71 lm
Warmup variation	0.2999%	Output change	34.58 lm
		Output end	12.75 lm

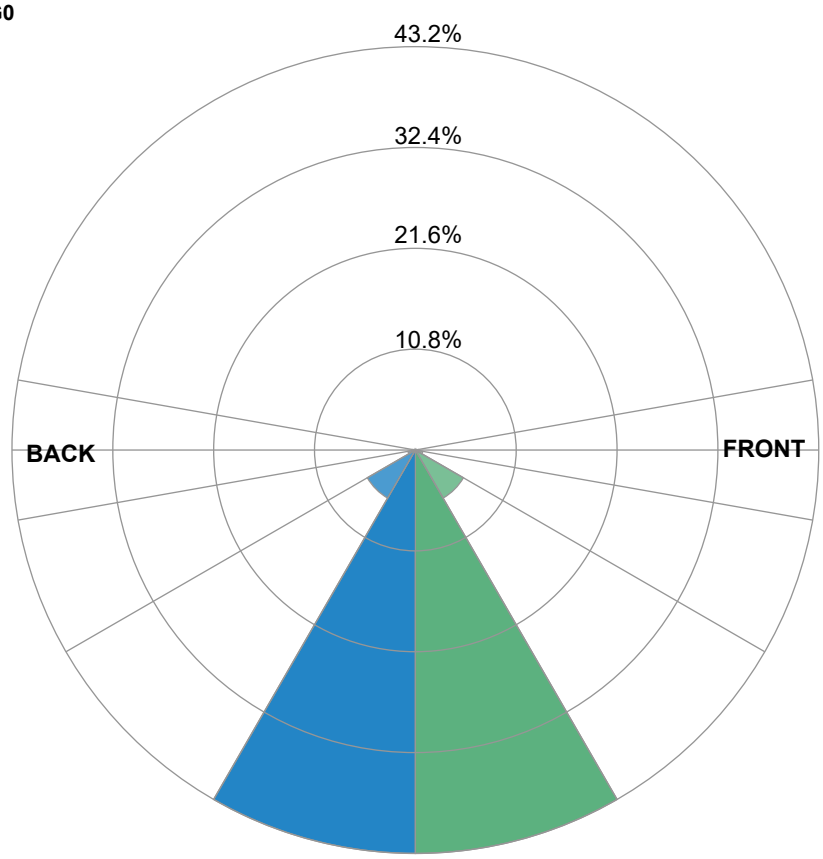
Stabilization Curve



Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-10-INF-XXXXX-X (W)

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

Forward Light			
Low (0-30°)	5510	lm	43.2%
Medium (30-60°)	758	lm	5.95%
High (60-80°)	102	lm	0.803%
Very High (80-90°)	1.28	lm	0.0101%
Back Light			
Low (0-30°)	5510	lm	43.2%
Medium (30-60°)	758	lm	5.95%
High (60-80°)	102	lm	0.803%
Very High (80-90°)	1.28	lm	0.0101%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	12.75	lm	100%

BUG RATING B5 U0 G0