Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-10L-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.Jun.02-9285-VO
Measurement date	2026-06-02

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	381.5 V DC
Input Current	0.34 A
Power Factor	1.00

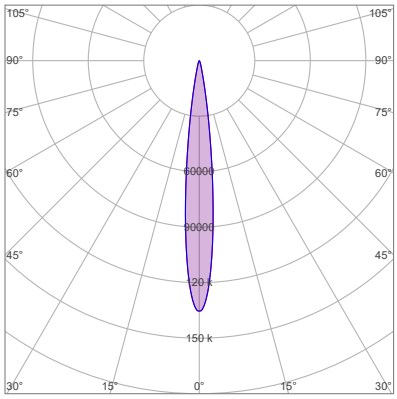
Tested Light Source

Product family	
Luminaire configuration	FL200-G2-XXX-RGBW3083-OM-10L-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

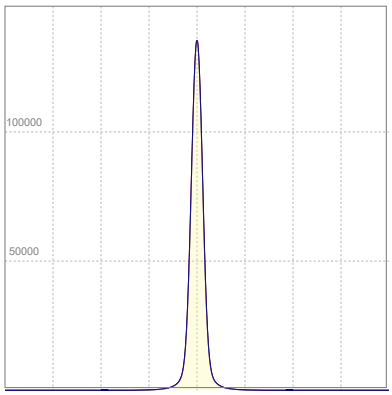
Output – Total Lumen	8621 - 0% / 100%
Efficiency	66.86 lm/W
Peak Intensity	135156
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	12.3°
Beam Angle (FWHM) | C90/270	12.3°
Field Angle (10%) | C0/180	23.0°Unit: 0-100% of peak intensity
Optical Power	25766 mW
Peak Wavelength	603 nm
Dominant Wavelength	584 nm

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

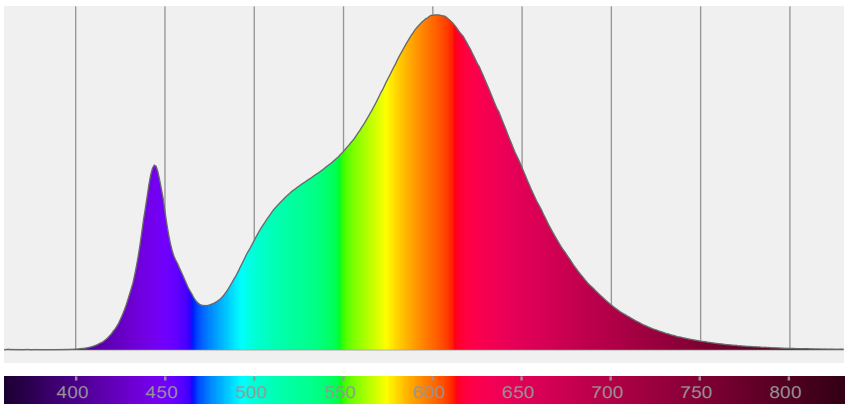


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

3005 K

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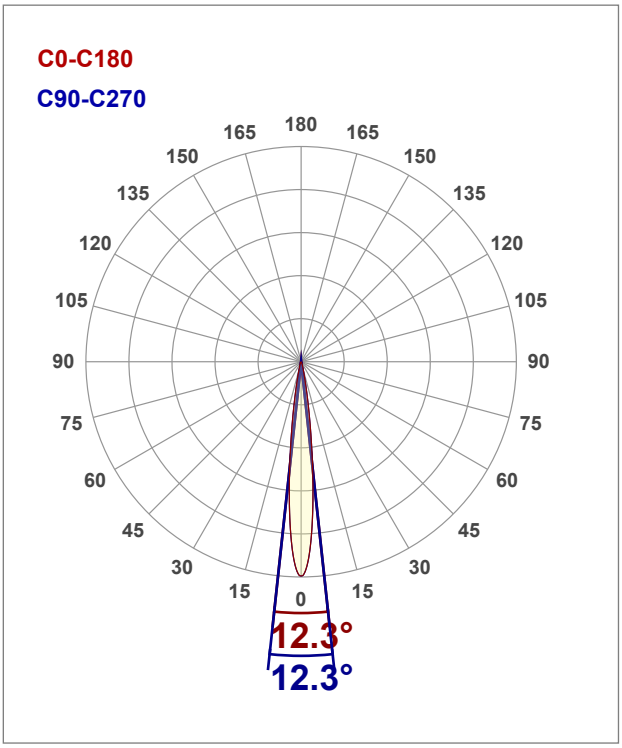
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	8621 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	135156 cd
Beam Angle (50%-FWHM)	12.3°

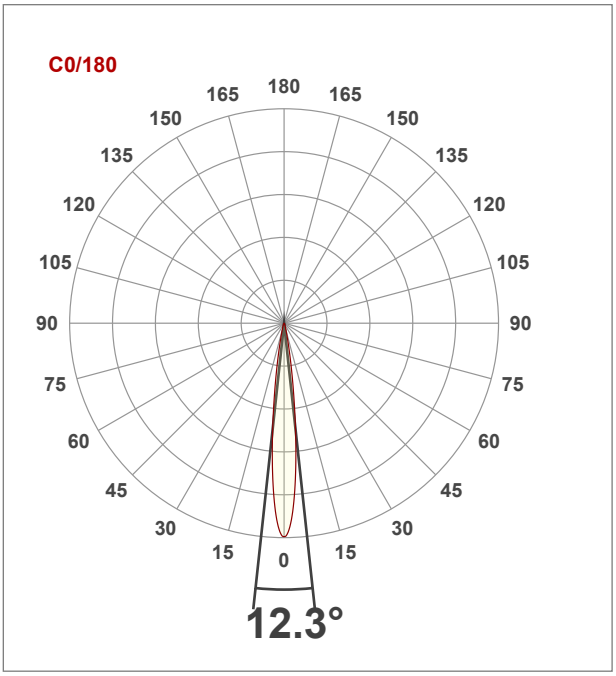
EU Ecodesign parameters

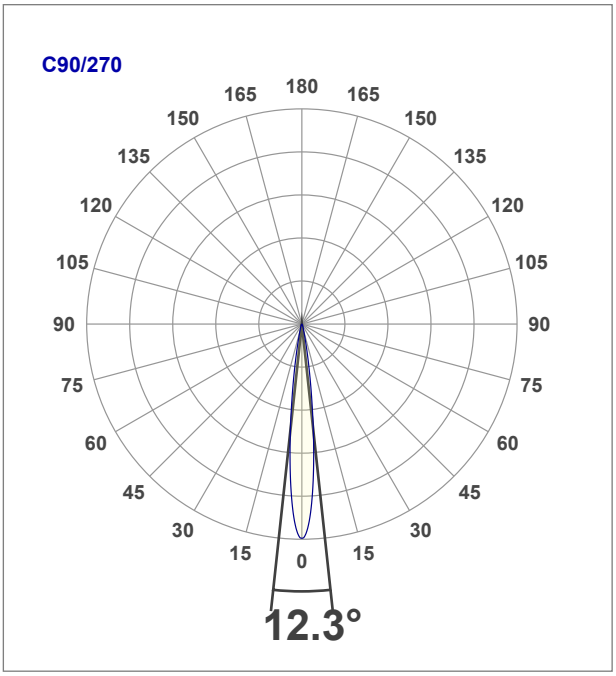
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	8532 lm
Ecodesign Energy Class	G

Intensity Ratio

In 120° cone	99.95%
In 90° cone	98.96%

Angular Distribution





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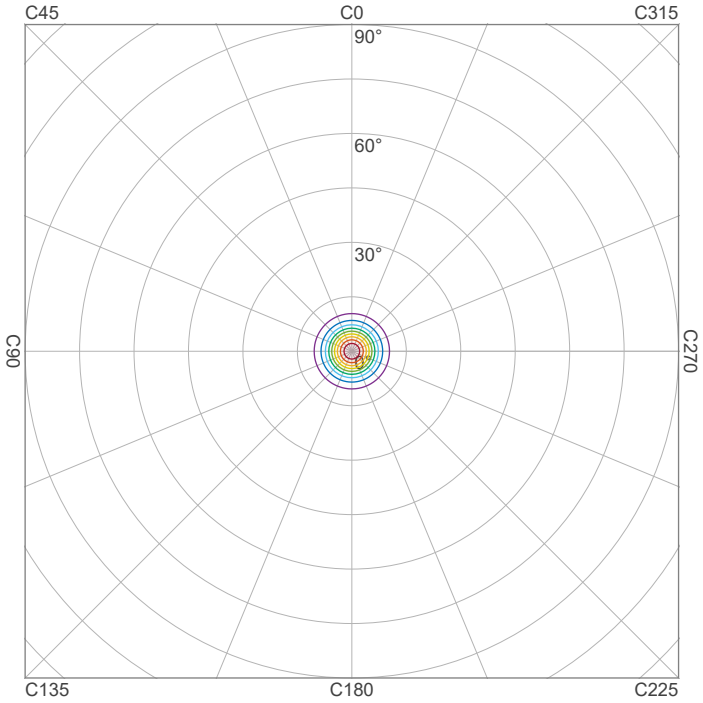
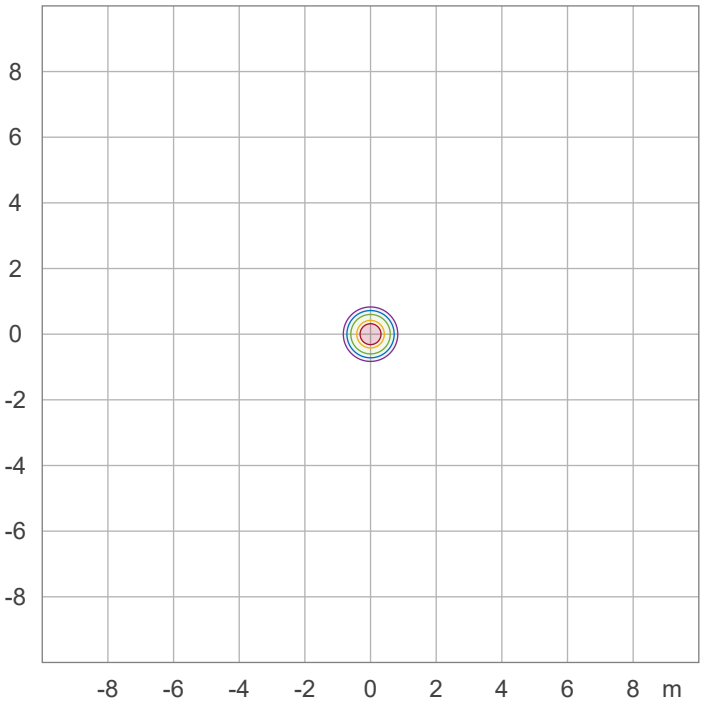
Iso-intensity Diagram (Iso-candela)



90 %	121640.3 cd
80 %	108124.7 cd
70 %	94609.1 cd
60 %	81093.5 cd
50 %	67577.9 cd
40 %	54062.4 cd
30 %	40546.8 cd
20 %	27031.2 cd
10 %	13515.6 cd

Peak intensity: 135155.9 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	7509 lx
30.0 %	4505 lx
10.0 %	1502 lx
5.0 %	751 lx
3.0 %	451 lx

Peak illuminance: 15017 lx
Mounting height: 3 m
Number of c-planes: 36

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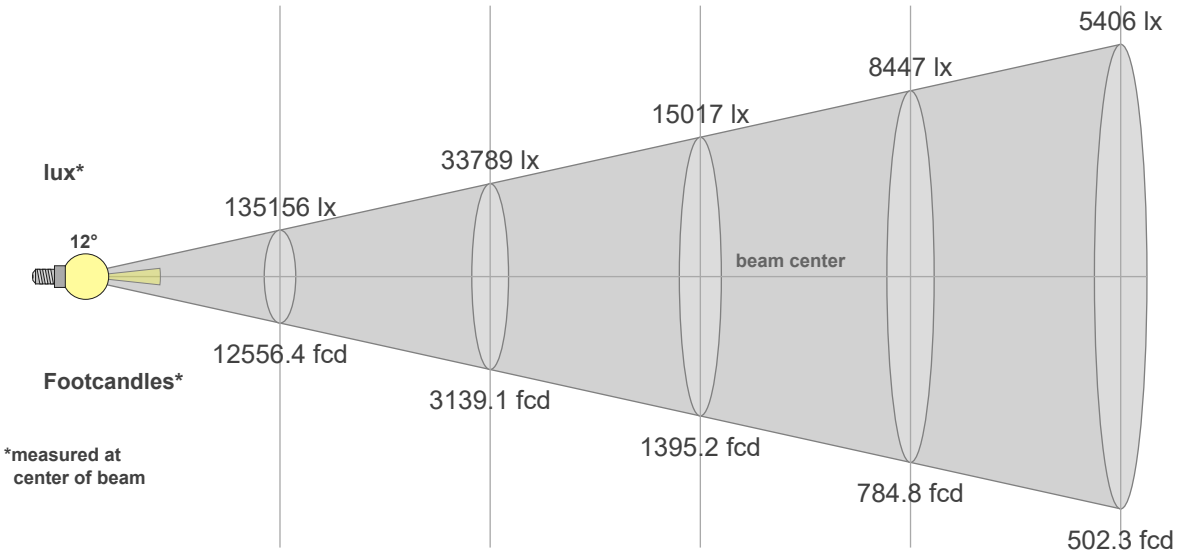
Beam details

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)	0.2 m	0.4 m	0.6 m	0.9 m	1.1 m
Beam width (feet)	0.7 ft	1.4 ft	2.1 ft	2.8 ft	3.5 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
135156	33789	15017	8447	5406	3754	2758	2112	1669	1352	1117	939	800	690	601	528	468	417	374	338	lux
12556.4	3139.1	1395.2	784.8	502.3	348.8	256.3	196.2	155	125.6	103.8	87.2	74.3	64.1	55.8	49	43.4	38.8	34.8	31.4	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
135k	133k	126k	115k	101k	86k	70k	55k	42k	31k	22k	16k	11k	8k	6k	5k	4k	3k	3k	2k	cd
100%	98%	93%	85%	75%	63%	52%	41%	31%	23%	16%	12%	8%	6%	5%	4%	3%	2%	2%	2%	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
135k	133k	126k	115k	101k	86k	70k	55k	42k	31k	22k	16k	11k	8k	6k	5k	4k	3k	3k	2k	cd
100%	98%	93%	85%	75%	63%	52%	41%	31%	23%	16%	12%	8%	6%	5%	4%	3%	2%	2%	2%	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
135k	133k	126k	115k	101k	86k	70k	55k	42k	31k	22k	16k	11k	8k	6k	5k	4k	3k	3k	2k	cd
100%	98%	93%	85%	75%	63%	52%	41%	31%	23%	16%	12%	8%	6%	5%	4%	3%	2%	2%	2%	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
135k	133k	126k	115k	101k	86k	70k	55k	42k	31k	22k	16k	11k	8k	6k	5k	4k	3k	3k	2k	cd
100%	98%	93%	85%	75%	63%	52%	41%	31%	23%	16%	12%	8%	6%	5%	4%	3%	2%	2%	2%	of 0°val

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

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	381.5 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

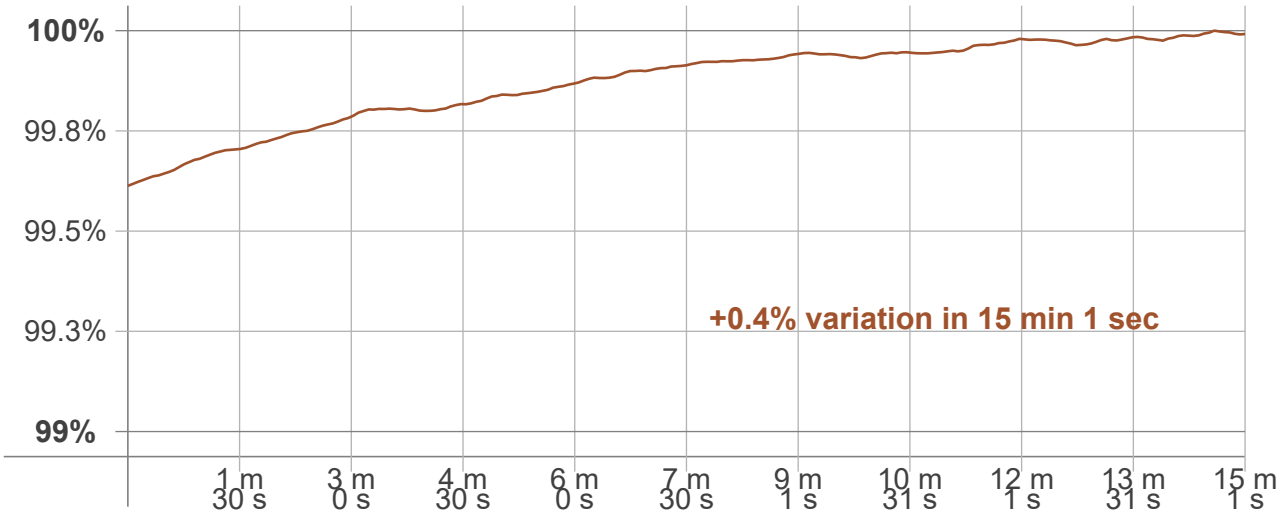
Efficiency

Radiated power efficiency	19.98
Lumen efficiency	66.86 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	8587 lm
Warmup variation	0.4331%	Output change	34.02 lm
		Output end	8621 lm

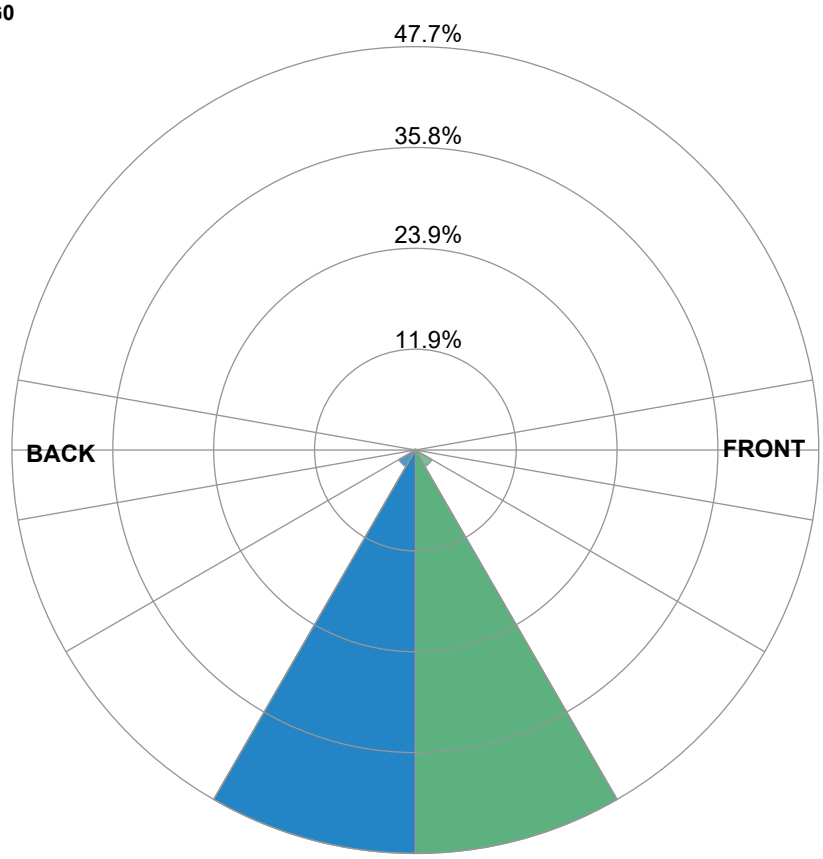
Stabilization Curve



Photometric Test Report

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

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

Forward Light			
Low (0-30°)	4110	lm	47.7%
Medium (30-60°)	195	lm	2.26%
High (60-80°)	2.19	lm	0.0253%
Very High (80-90°)	0	lm	0%
Back Light			
Low (0-30°)	4110	lm	47.7%
Medium (30-60°)	195	lm	2.26%
High (60-80°)	2.19	lm	0.0253%
Very High (80-90°)	0	lm	0%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	8621	lm	100%

BUG RATING B4 U0 G0