Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-6030-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.Apr.17-7951-VO
Measurement date	2026-04-17

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	1.00°
Input Power	127.8 W

Electrical Data

Input Power	127.8 W
Input Voltage	381.4 V DC
Input Current	0.34 A
Power Factor	1.00

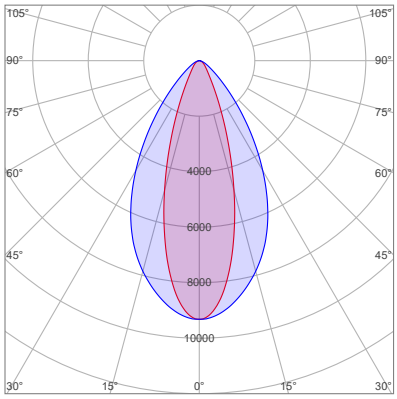
Tested Light Source

Product family	FL200-G2
Luminaire configuration	FL200-G2-XXX-RGBW3083-OM-6030-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

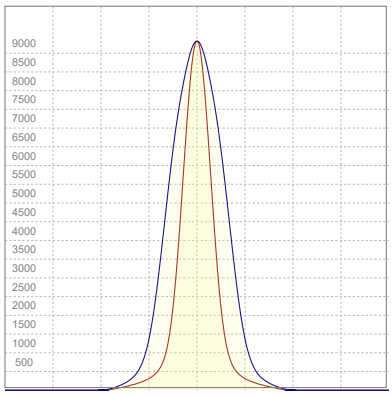
Output – Total Lumen	6085 - 0.0071% / 99.99%
Efficiency	47.62 lm/W
Peak Intensity	9322
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	30.8°
Beam Angle (FWHM) | C90/270	59.3°
Field Angle (10%) | C0/180	59.7°Unit: 0-100% of peak intensity
Optical Power	25778 mW
Peak Wavelength	453 nm
Dominant Wavelength	540 nm

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

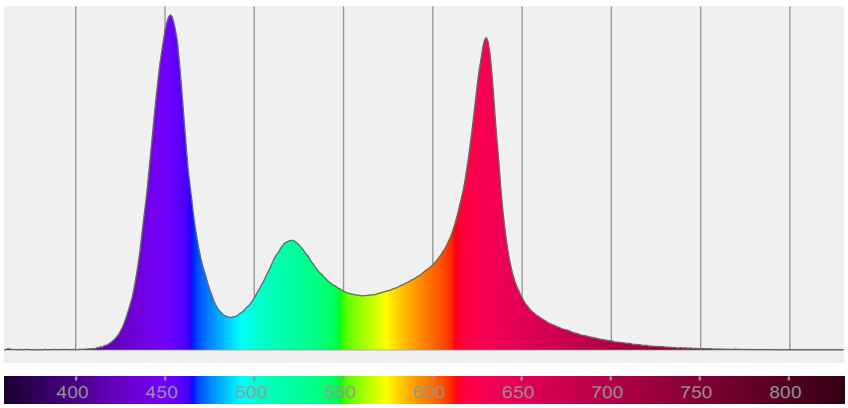


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

NaN K

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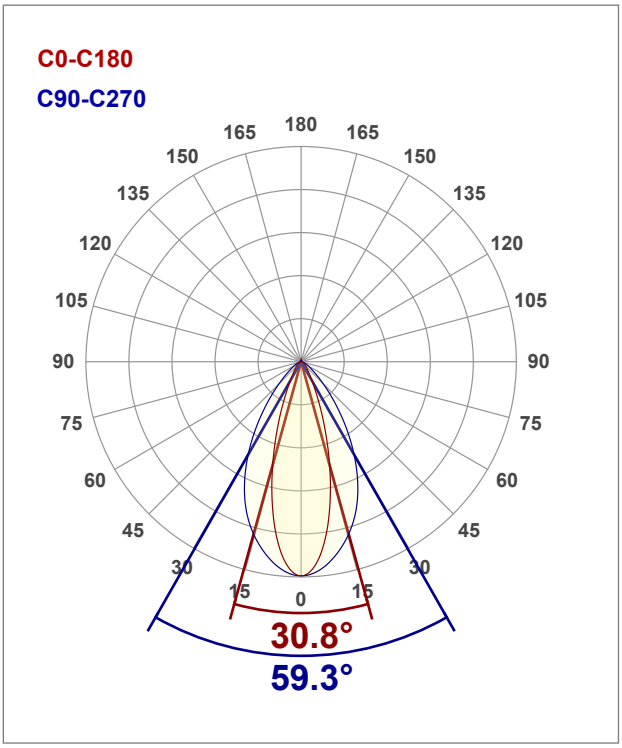
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	6085 lm
Lumen Up% / Down%	0.0071% / 99.99%
Peak Intensity	9322 cd
Beam Angle (50%-FWHM)	42.0°

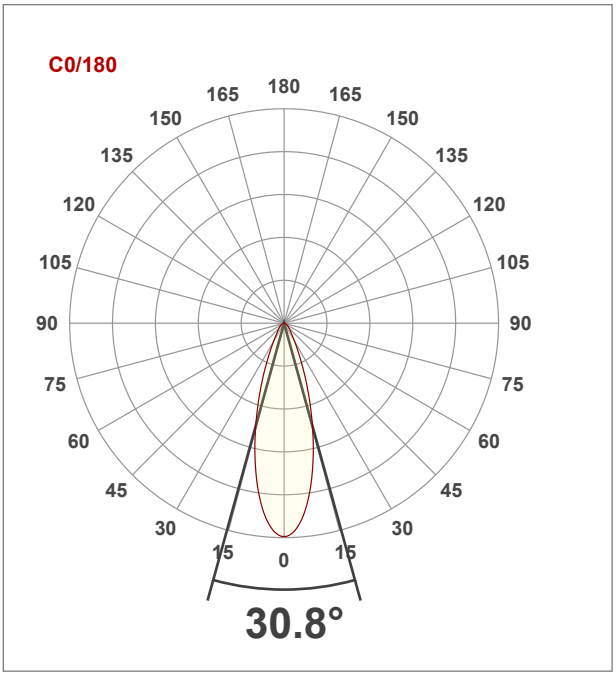
EU Ecodesign parameters

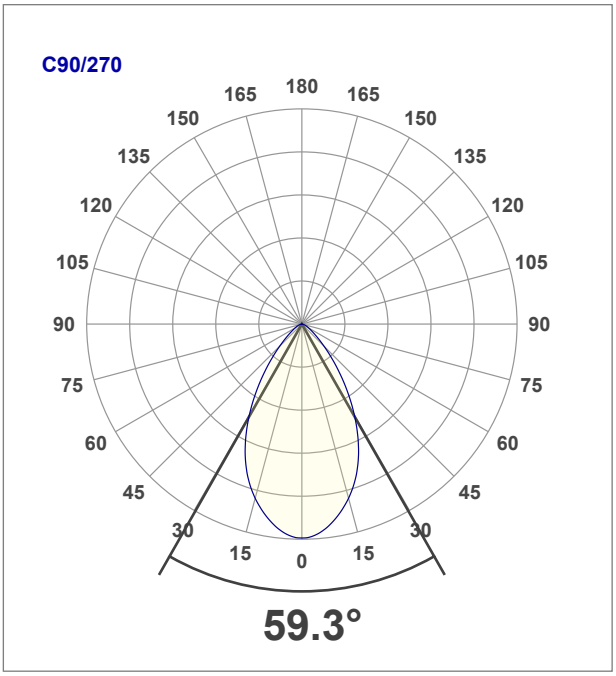
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	5352 lm
Ecodesign Energy Class	G

Intensity Ratio

In 120° cone	96.02%
In 90° cone	87.96%

Angular Distribution





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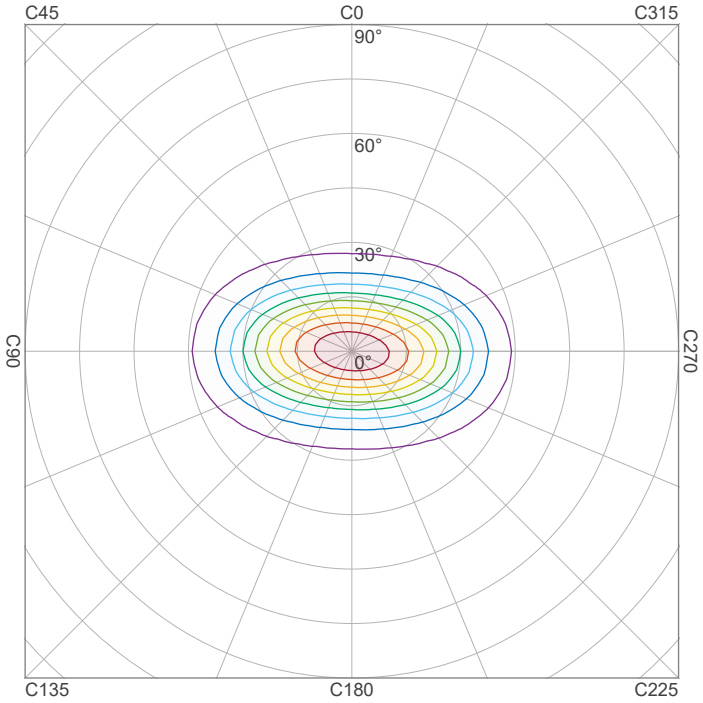
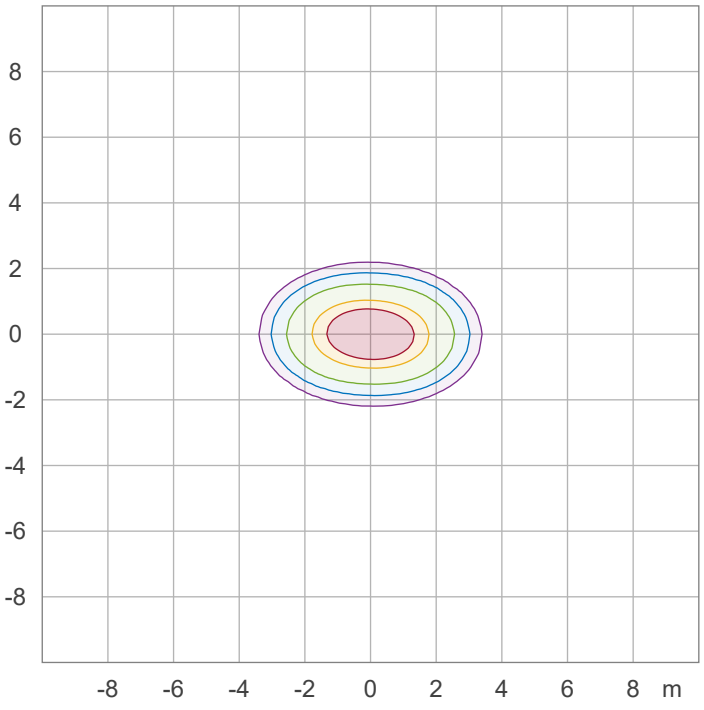
Iso-intensity Diagram (Iso-candela)



90 %	8383.2 cd
80 %	7451.7 cd
70 %	6520.3 cd
60 %	5588.8 cd
50 %	4657.3 cd
40 %	3725.9 cd
30 %	2794.4 cd
20 %	1862.9 cd
10 %	931.5 cd

Peak intensity: 9314.7 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	517 lx
30.0 %	310 lx
10.0 %	103 lx
5.0 %	51.7 lx
3.0 %	31 lx

Peak illuminance: 1035 lx
Mounting height: 3 m
Number of c-planes: 36

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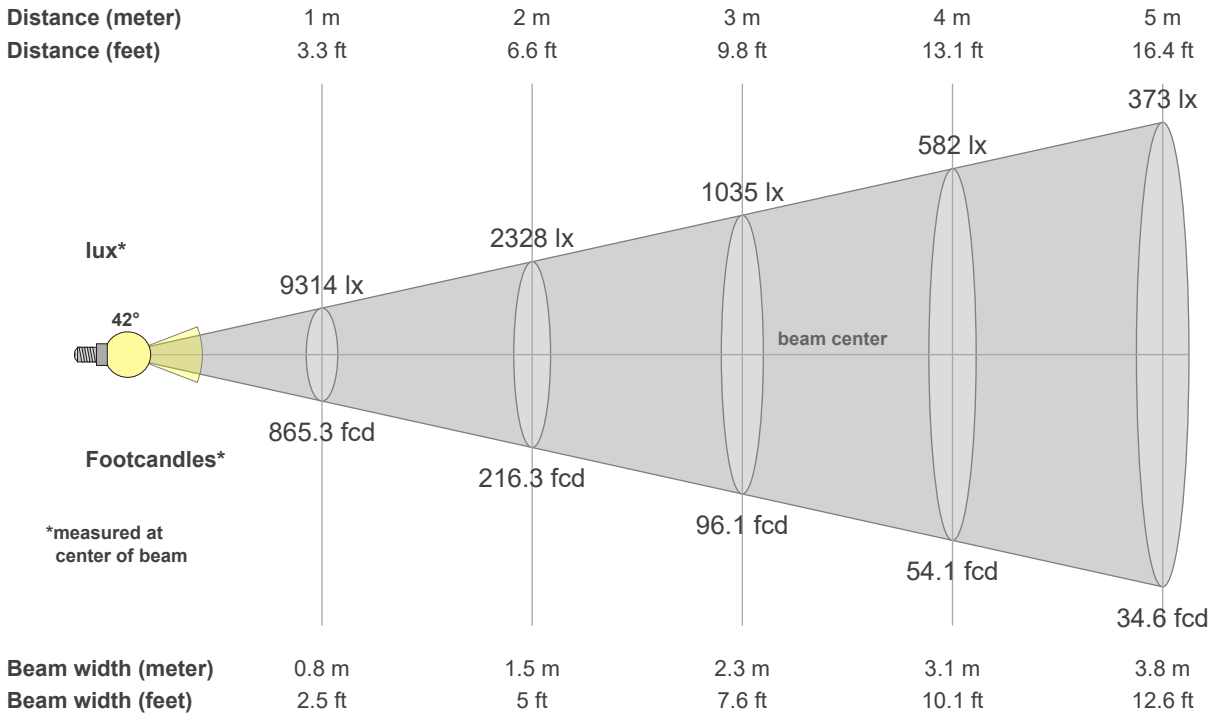
Beam details



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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
9314	2328	1035	582	373	259	190	146	115	93	77	65	55	48	41	36	32	29	26	23	lux
865.3	216.3	96.1	54.1	34.6	24	17.7	13.5	10.7	8.7	7.2	6	5.1	4.4	3.8	3.4	3	2.7	2.4	2.2	fc

Intensities in 0° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°	γ
9314	9200	8868	8354	7685	6919	6090	5251	4423	3648	2945	2345	1842	1448	1144	916	749	625	534	466	cd
100%	99%	95%	90%	83%	74%	65%	56%	47%	39%	32%	25%	20%	16%	12%	10%	8%	7%	6%	5%	of 0°val

Intensities in 90° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°	γ
9314	9290	9187	9026	8819	8576	8305	8011	7689	7338	6955	6529	6074	5589	5086	4572	4064	3555	3075	2615	cd
100%	100%	99%	97%	95%	92%	89%	86%	83%	79%	75%	70%	65%	60%	55%	49%	44%	38%	33%	28%	of 0°val

Intensities in 180° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°	γ
9314	9200	8868	8354	7685	6919	6090	5251	4423	3648	2945	2345	1842	1448	1144	916	749	625	534	466	cd
100%	99%	95%	90%	83%	74%	65%	56%	47%	39%	32%	25%	20%	16%	12%	10%	8%	7%	6%	5%	of 0°val

Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°	γ
9314	9290	9187	9026	8819	8576	8305	8011	7689	7338	6955	6529	6074	5589	5086	4572	4064	3555	3075	2615	cd
100%	100%	99%	97%	95%	92%	89%	86%	83%	79%	75%	70%	65%	60%	55%	49%	44%	38%	33%	28%	of 0°val

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FL200-G2-XXX-RGBW3083-OM-6030-INF-XXXXX-X (ALL ON)

Power details

Input power	
Frequency of input power	0.0 Hz
Power feed to light source	127.8 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	127.8 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

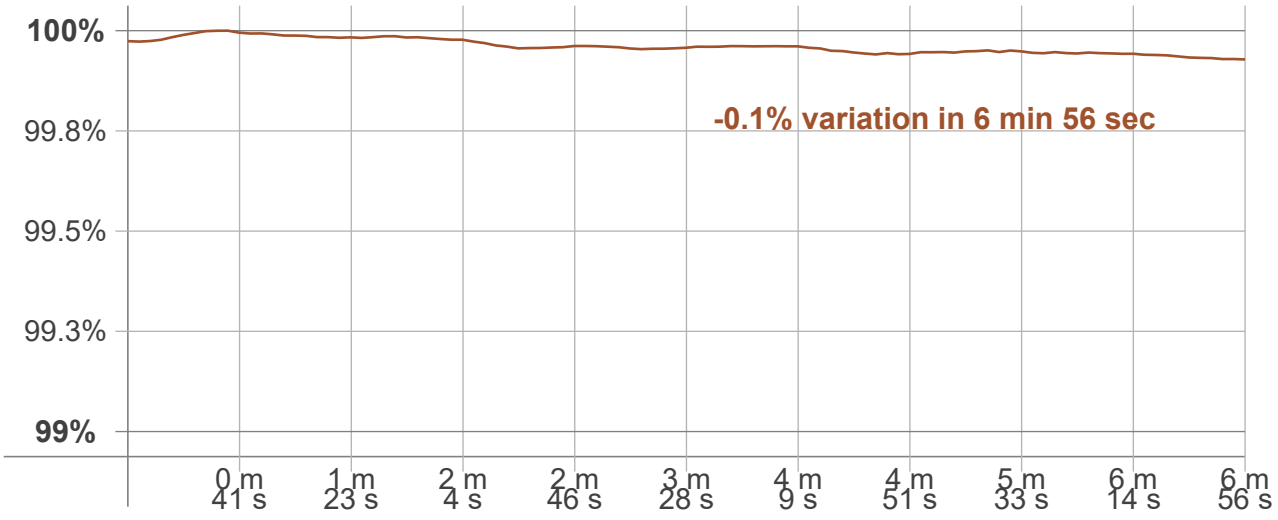
Efficiency

Radiated power efficiency	20.18
Lumen efficiency	47.62 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	6087 lm
Warmup variation	-0.0818%	Output change	-2.2238 lm
		Output end	6085 lm

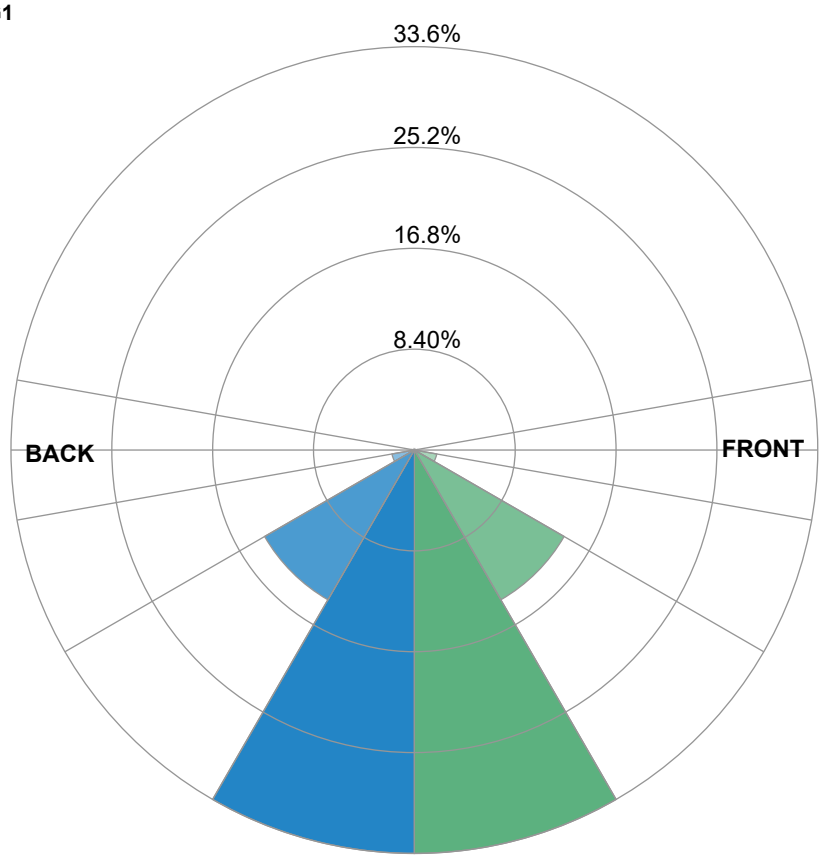
Stabilization Curve



Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-6030-INF-XXXXX-X (ALL ON)

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

Forward Light			
Low (0-30°)	2040	lm	33.6%
Medium (30-60°)	876	lm	14.4%
High (60-80°)	115	lm	1.89%
Very High (80-90°)	6.23	lm	0.102%
Back Light			
Low (0-30°)	2040	lm	33.6%
Medium (30-60°)	876	lm	14.4%
High (60-80°)	115	lm	1.89%
Very High (80-90°)	6.23	lm	0.102%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	6085	lm	100%

BUG RATING B3 U0 G1