Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-6030-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.Apr.17-7944-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

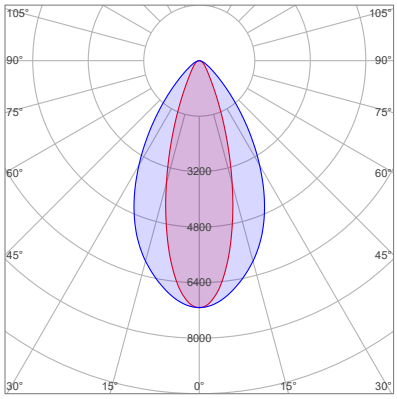
Tested Light Source

Product family	FL200-G2
Luminaire configuration	FL200-G2-XXX-RGBW3083-OM-6030-INF-XXXXX-X (G)
Manufacturer	GVA Lighting, Inc.
Size (width x length x height)	106 mm 0 mm x 430 mm

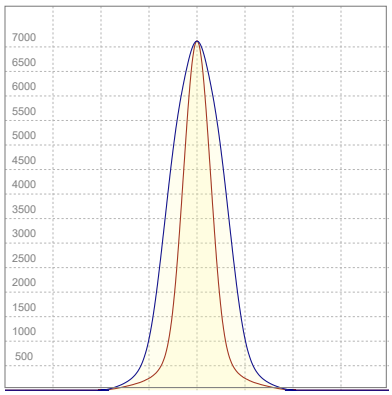
Main Light Measurement Results

Output – Total Lumen	4640 - 0.036% / 99.96%
Efficiency	36.32 lm/W
Peak Intensity	7118
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	30.7°
Beam Angle (FWHM) | C90/270	59.2°
Field Angle (10%) | C0/180	59.6°Unit: 0-100% of peak intensity
Optical Power	9602 mW
Peak Wavelength	522 nm
Dominant Wavelength	527 nm

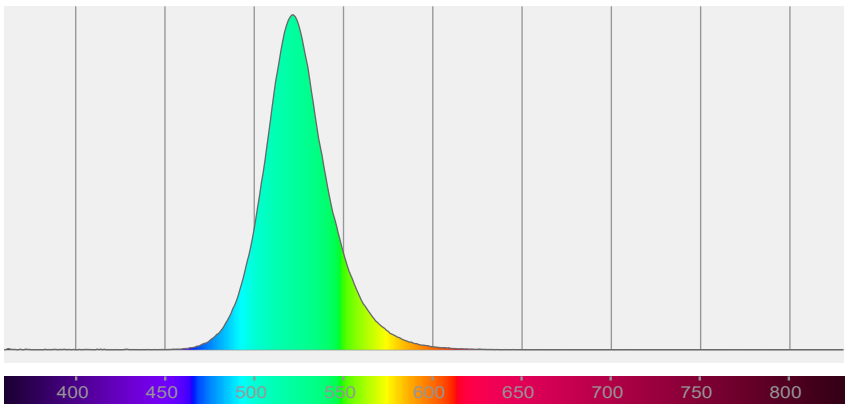
Polar Light Distribution Diagram
Unit: 0-100% of peak intensity



Linear distribution Diagram



Spectral Distribution



Color Temperature

NaN K

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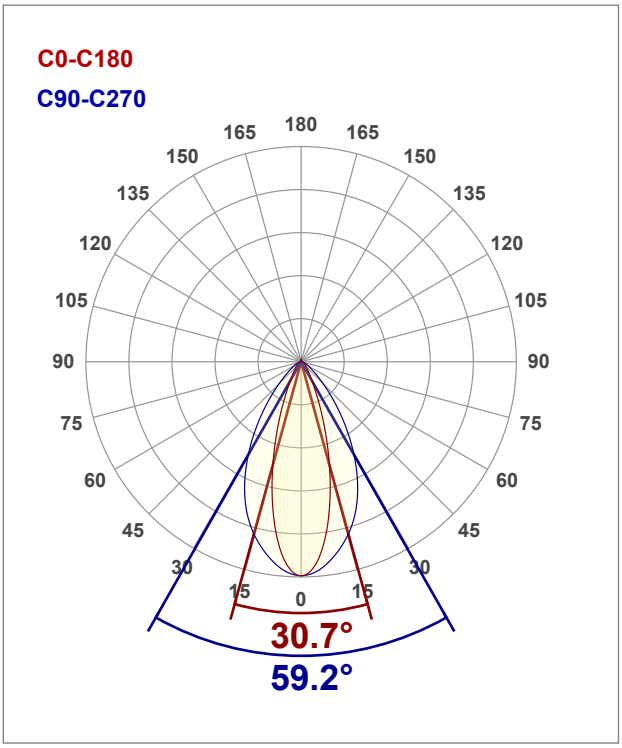
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	4640 lm
Lumen Up% / Down%	0.036% / 99.96%
Peak Intensity	7118 cd
Beam Angle (50%-FWHM)	41.8°

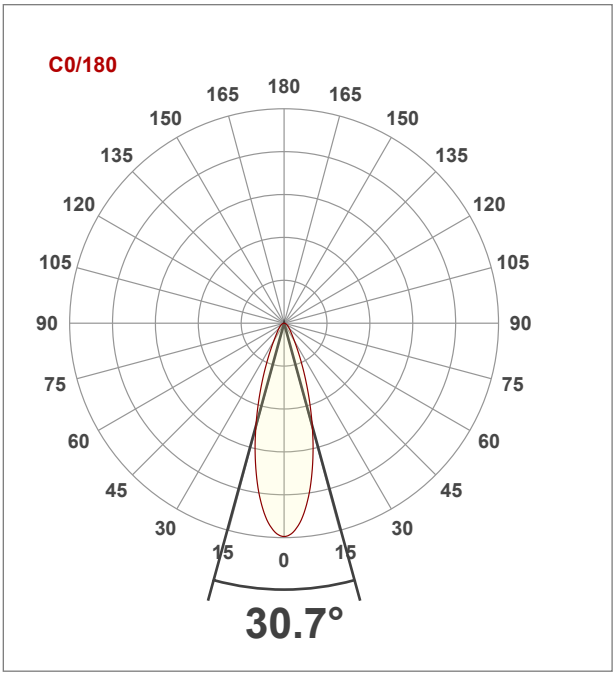
EU Ecodesign parameters

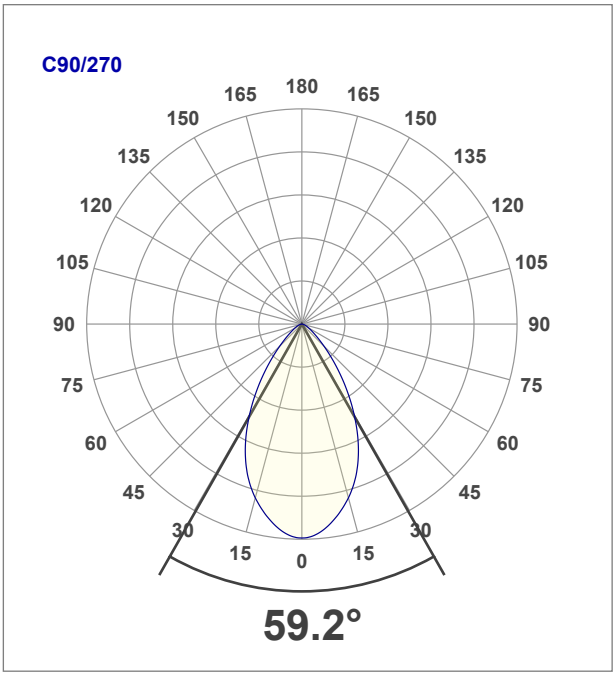
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	4069 lm
Ecodesign Energy Class	G

Intensity Ratio

In 120° cone	95.85%
In 90° cone	87.69%

Angular Distribution





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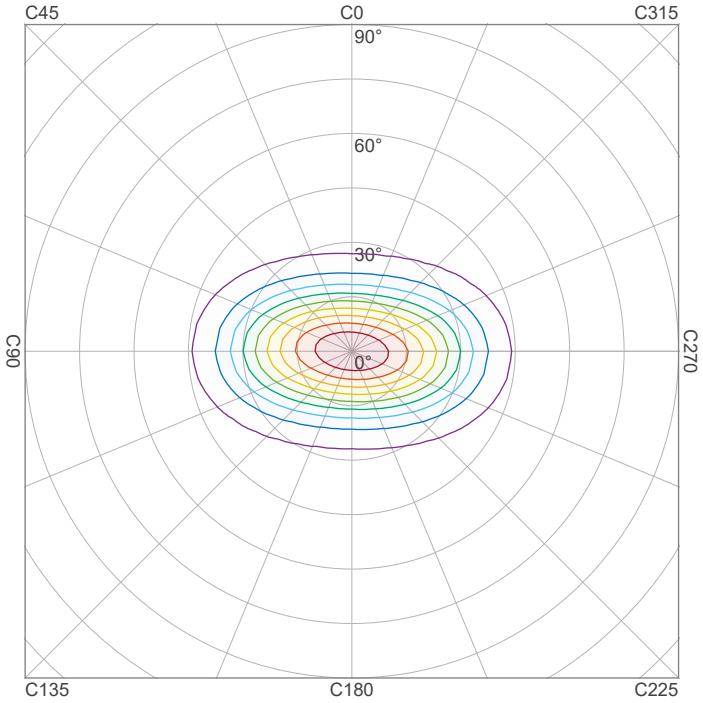
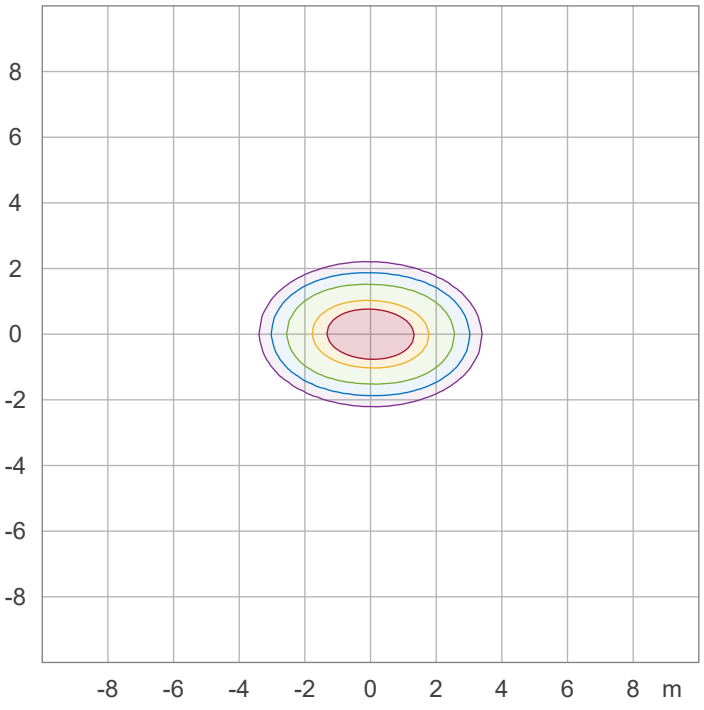
Iso-intensity Diagram (Iso-candela)



90 %	6402.3 cd
80 %	5691.0 cd
70 %	4979.6 cd
60 %	4268.2 cd
50 %	3556.9 cd
40 %	2845.5 cd
30 %	2134.1 cd
20 %	1422.7 cd
10 %	711.4 cd

Peak intensity: 7113.7 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	395 lx
30.0 %	237 lx
10.0 %	79 lx
5.0 %	39.5 lx
3.0 %	23.7 lx

Peak illuminance: 790 lx
Mounting height: 3 m
Number of c-planes: 36

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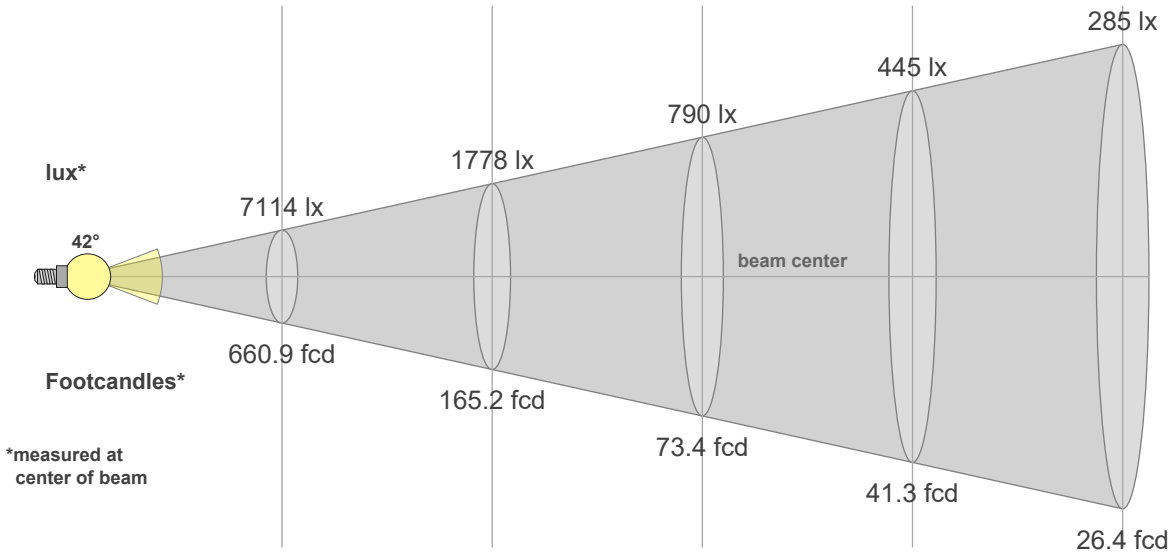
Beam details

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)	0.8 m	1.5 m	2.3 m	3.1 m	3.8 m
Beam width (feet)	2.5 ft	5 ft	7.5 ft	10 ft	12.5 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
7114	1778	790	445	285	198	145	111	88	71	59	49	42	36	32	28	25	22	20	18	lux
660.9	165.2	73.4	41.3	26.4	18.4	13.5	10.3	8.2	6.6	5.5	4.6	3.9	3.4	2.9	2.6	2.3	2	1.8	1.7	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
7114	7027	6768	6366	5850	5257	4623	3980	3352	2758	2224	1771	1391	1096	868	698	576	485	416	362	cd
100%	99%	95%	89%	82%	74%	65%	56%	47%	39%	31%	25%	20%	15%	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
7114	7087	7006	6879	6715	6526	6319	6097	5859	5592	5299	4974	4625	4255	3869	3478	3091	2704	2341	1993	cd
100%	100%	98%	97%	94%	92%	89%	86%	82%	79%	74%	70%	65%	60%	54%	49%	43%	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
7114	7027	6768	6366	5850	5257	4623	3980	3352	2758	2224	1771	1391	1096	868	698	576	485	416	362	cd
100%	99%	95%	89%	82%	74%	65%	56%	47%	39%	31%	25%	20%	15%	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
7114	7087	7006	6879	6715	6526	6319	6097	5859	5592	5299	4974	4625	4255	3869	3478	3091	2704	2341	1993	cd
100%	100%	98%	97%	94%	92%	89%	86%	82%	79%	74%	70%	65%	60%	54%	49%	43%	38%	33%	28%	of 0°val

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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

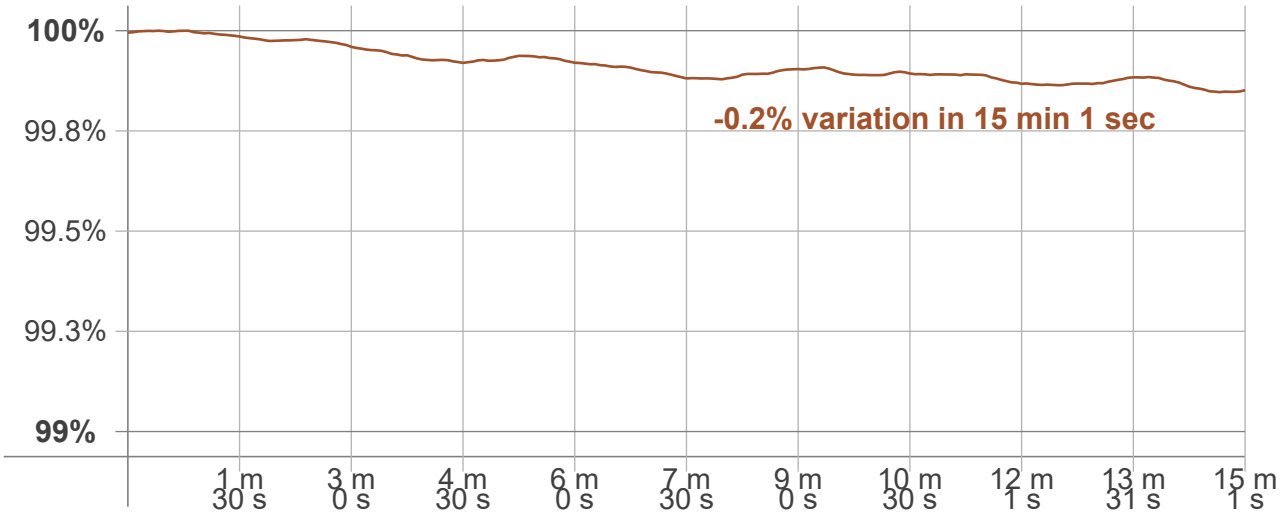
Efficiency

Radiated power efficiency	7.515
Lumen efficiency	36.32 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	4647 lm
Warmup variation	-0.1668%	Output change	-6.1872 lm
		Output end	4640 lm

Stabilization Curve



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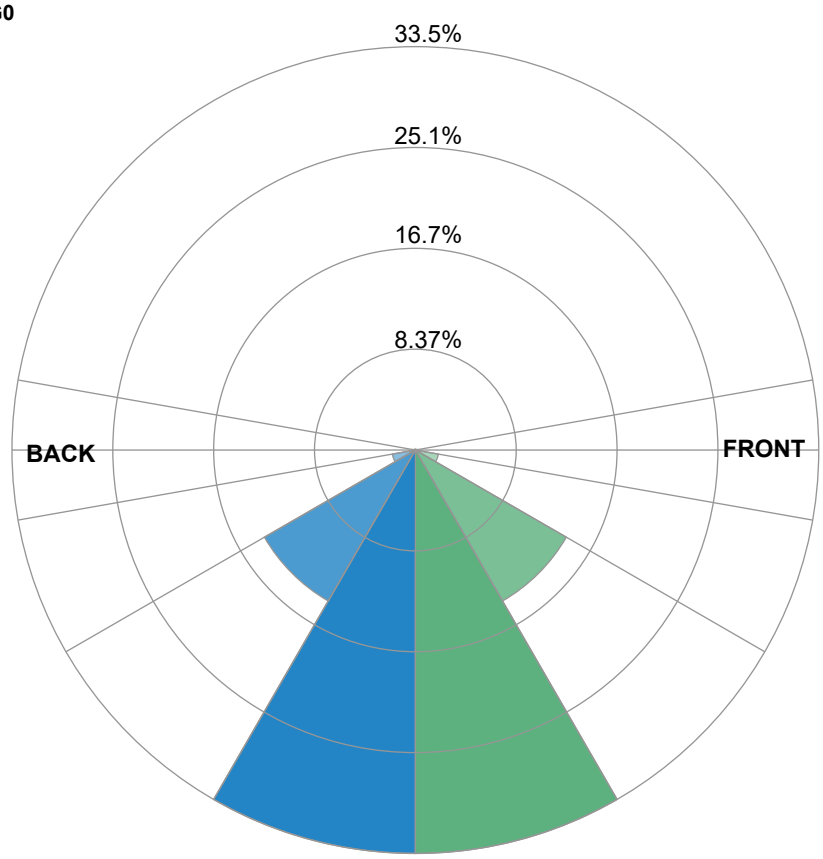
FL200-G2-XXX-RGBW3083-OM-6030-INF-XXXXX-X (G)

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

Forward Light			
Low (0-30°)	1550	lm	33.5%
Medium (30-60°)	671	lm	14.5%
High (60-80°)	90.0	lm	1.94%
Very High (80-90°)	5.67	lm	0.122%
Back Light			
Low (0-30°)	1550	lm	33.5%
Medium (30-60°)	671	lm	14.5%
High (60-80°)	90.0	lm	1.94%
Very High (80-90°)	5.67	lm	0.122%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	4640	lm	100%

BUG RATING B3 U0 G0