Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-50-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.16-7925-VO
Measurement date	2026-04-16

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	2.00°
Input Power	0 W

Electrical Data

Input Power	0 W
Input Voltage	120.1 V DC
Input Current	0.00 A
Power Factor	NaN

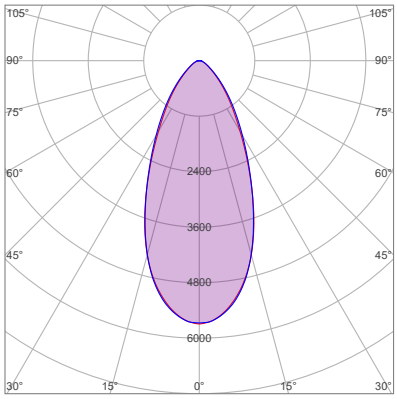
Tested Light Source

Product family	FL200-G2
Luminaire configuration	FL200-G2-XXX-RGBW3083-OM-50-INF-XXXXX-X (G)
Manufacturer	GVA Lighting, Inc.
Size (width x length x height)	106 mm 0 mm x 430 mm

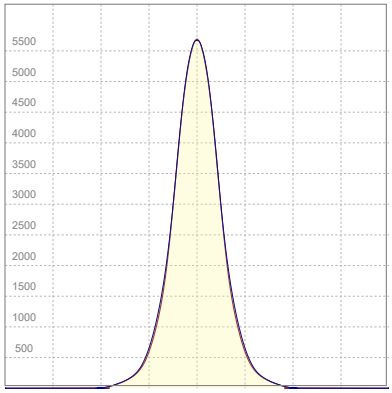
Main Light Measurement Results

Output – Total Lumen	4626 - 0.1913% / 99.81%
Efficiency	∞ lm/W
Peak Intensity	5691
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	46.3°
Beam Angle (FWHM) | C90/270	46.5°
Field Angle (10%) | C0/180	91.1°Unit: 0-100% of peak intensity
Optical Power	9582 mW
Peak Wavelength	522 nm
Dominant Wavelength	527 nm

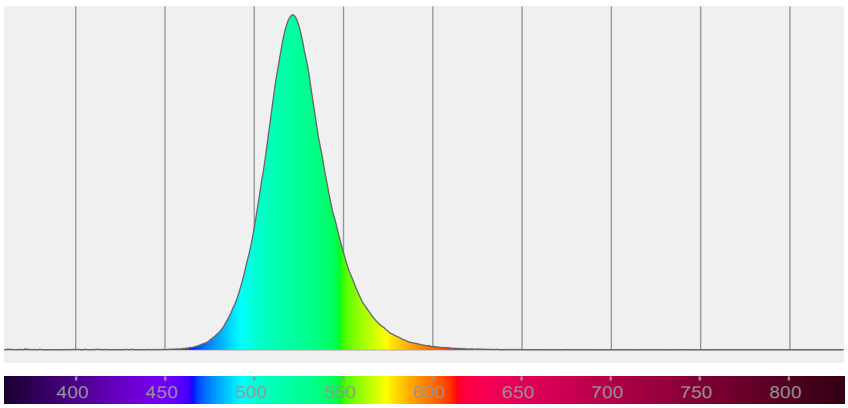
Polar Light Distribution Diagram
Unit: 0-100% of peak intensity



Linear distribution Diagram



Spectral Distribution



Color Temperature

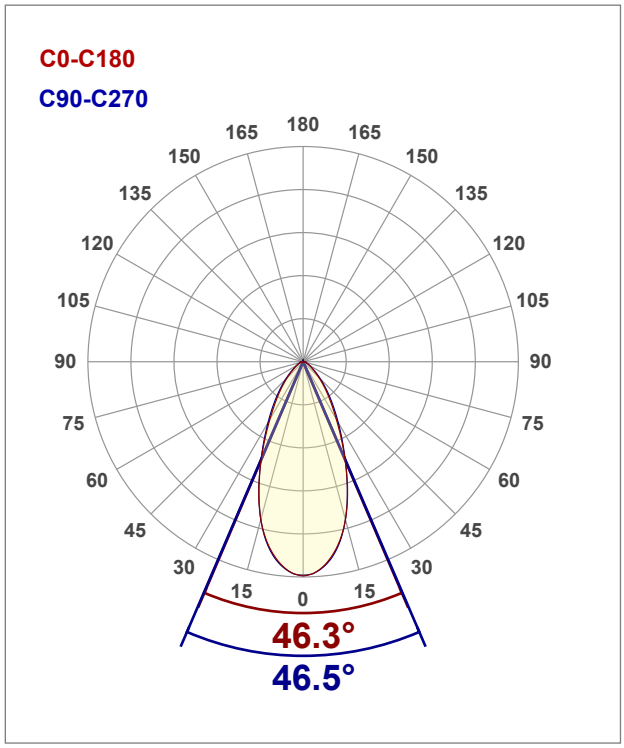
NaN K

Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-50-INF-XXXXX-X (G)

Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	4626 lm
Lumen Up% / Down%	0.1913% / 99.81%
Peak Intensity	5691 cd
Beam Angle (50%-FWHM)	46.0°

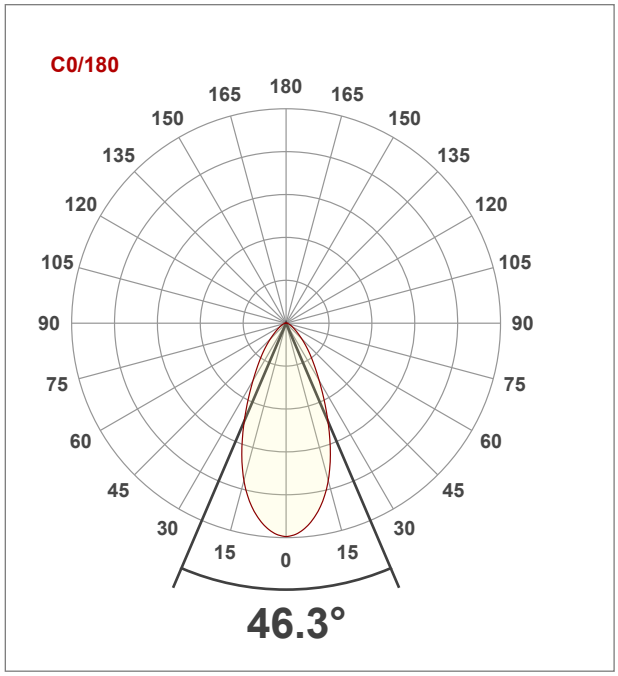
EU Ecodesign parameters

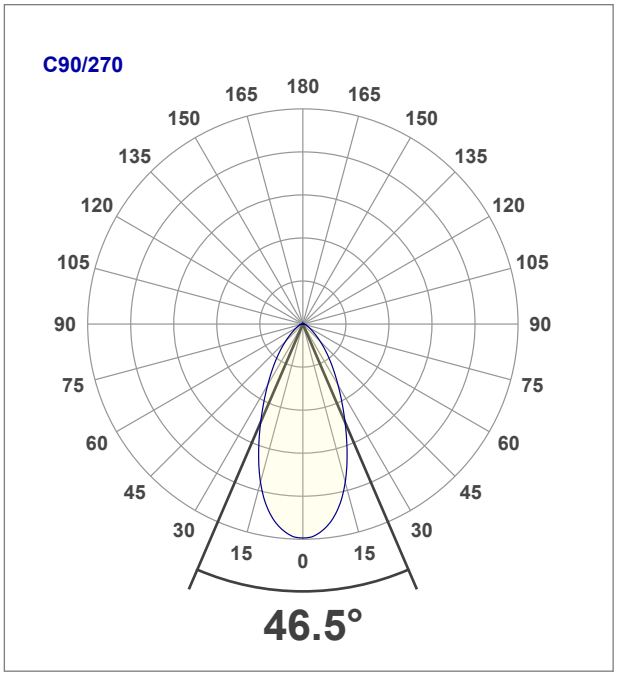
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	3931 lm
Ecodesign Energy Class	A

Intensity Ratio

In 120° cone	94.8%
In 90° cone	84.97%

Angular Distribution

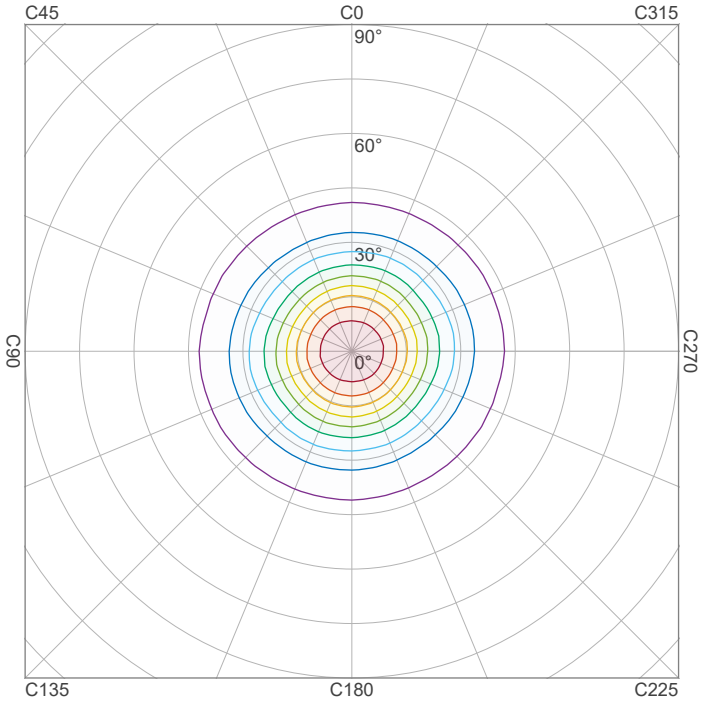




Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-50-INF-XXXXX-X (G)

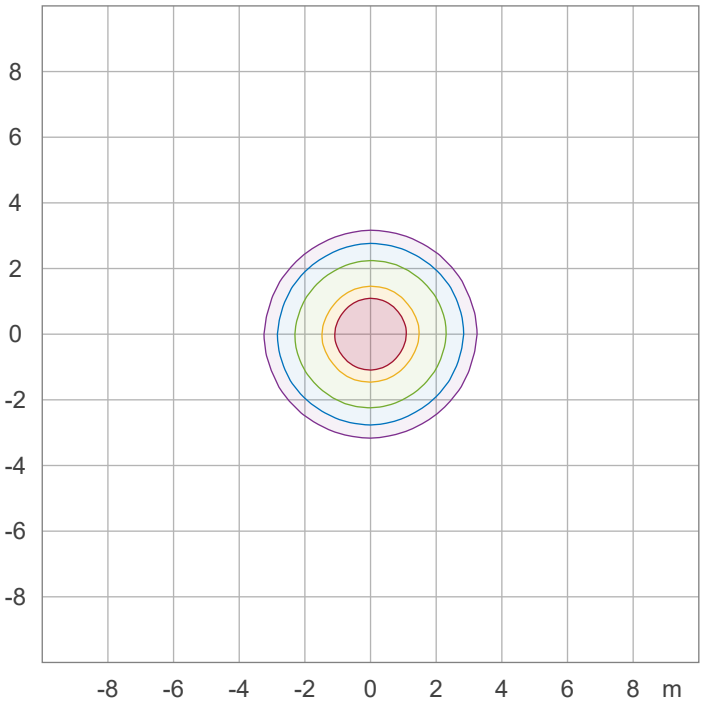
Iso-intensity Diagram (Iso-candela)



90 %	5118.8 cd
80 %	4550.0 cd
70 %	3981.3 cd
60 %	3412.5 cd
50 %	2843.8 cd
40 %	2275.0 cd
30 %	1706.3 cd
20 %	1137.5 cd
10 %	568.8 cd

Peak intensity: 5687.5 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



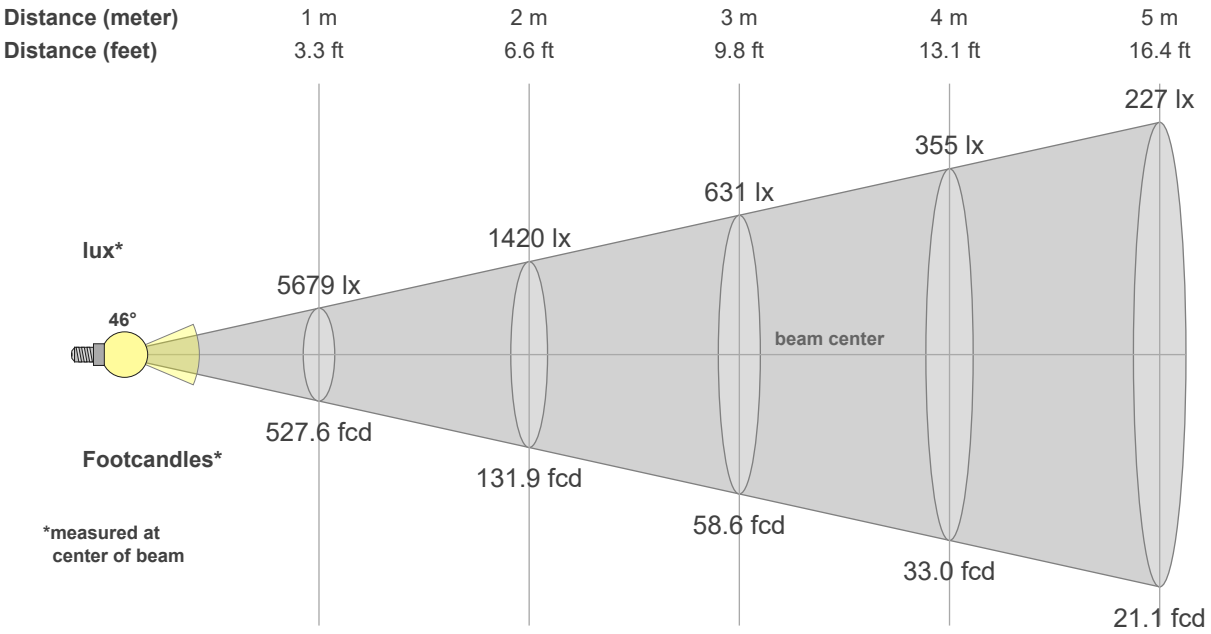
50.0 %	316 lx
30.0 %	189 lx
10.0 %	63.2 lx
5.0 %	31.6 lx
3.0 %	18.9 lx

Peak illuminance: 632 lx
Mounting height: 3 m
Number of c-planes: 36

Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-50-INF-XXXXX-X (G)

Beam details



Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-50-INF-XXXXX-X (G)

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
5679	1420	631	355	227	158	116	89	70	57	47	39	34	29	25	22	20	18	16	14	lux
527.6	131.9	58.6	33	21.1	14.7	10.8	8.2	6.5	5.3	4.4	3.7	3.1	2.7	2.3	2.1	1.8	1.6	1.5	1.3	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
5679	5652	5566	5433	5256	5043	4791	4501	4171	3813	3433	3052	2686	2347	2037	1768	1537	1338	1167	1015	cd
100%	100%	98%	96%	93%	89%	84%	79%	73%	67%	60%	54%	47%	41%	36%	31%	27%	24%	21%	18%	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
5679	5653	5577	5455	5291	5076	4816	4506	4161	3789	3413	3052	2709	2398	2118	1865	1642	1441	1263	1102	cd
100%	100%	98%	96%	93%	89%	85%	79%	73%	67%	60%	54%	48%	42%	37%	33%	29%	25%	22%	19%	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
5679	5652	5566	5433	5256	5043	4791	4501	4171	3813	3433	3052	2686	2347	2037	1768	1537	1338	1167	1015	cd
100%	100%	98%	96%	93%	89%	84%	79%	73%	67%	60%	54%	47%	41%	36%	31%	27%	24%	21%	18%	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
5679	5653	5577	5455	5291	5076	4816	4506	4161	3789	3413	3052	2709	2398	2118	1865	1642	1441	1263	1102	cd
100%	100%	98%	96%	93%	89%	85%	79%	73%	67%	60%	54%	48%	42%	37%	33%	29%	25%	22%	19%	of 0°val

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Power details

Input power	
Frequency of input power	60.0 Hz
Power feed to light source	0 W
RMS Input voltage feed V,RMS	120.1 V
RMS Input current feed I,RMS	0.00 A
Volt-Amp or apparent power = V,RMS*I,RMS	0.0 VA
Displacement factor of AC power feed	0.71
Power factor of AC current feed	NaN
Total harmonic distortion of the current	NaN%
Total harmonic distortion of the voltage	1.68%

Input power curve

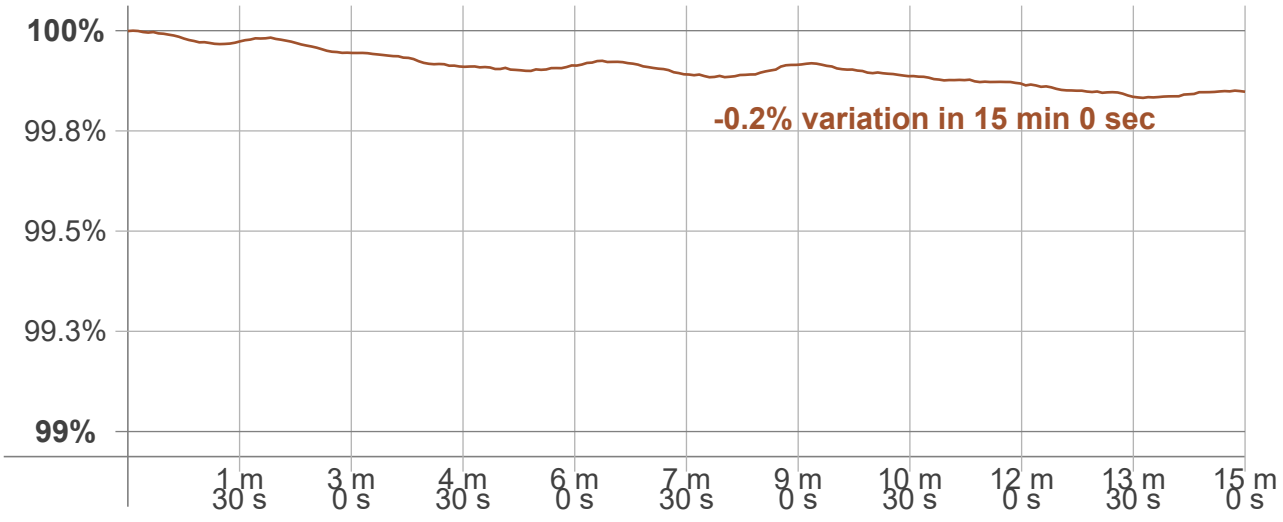
Efficiency

Radiated power efficiency	∞
Lumen efficiency	∞ 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 0 sec	Output start	4633 lm
Warmup variation	-0.2053%	Output change	-6.8857 lm
		Output end	4626 lm

Stabilization Curve



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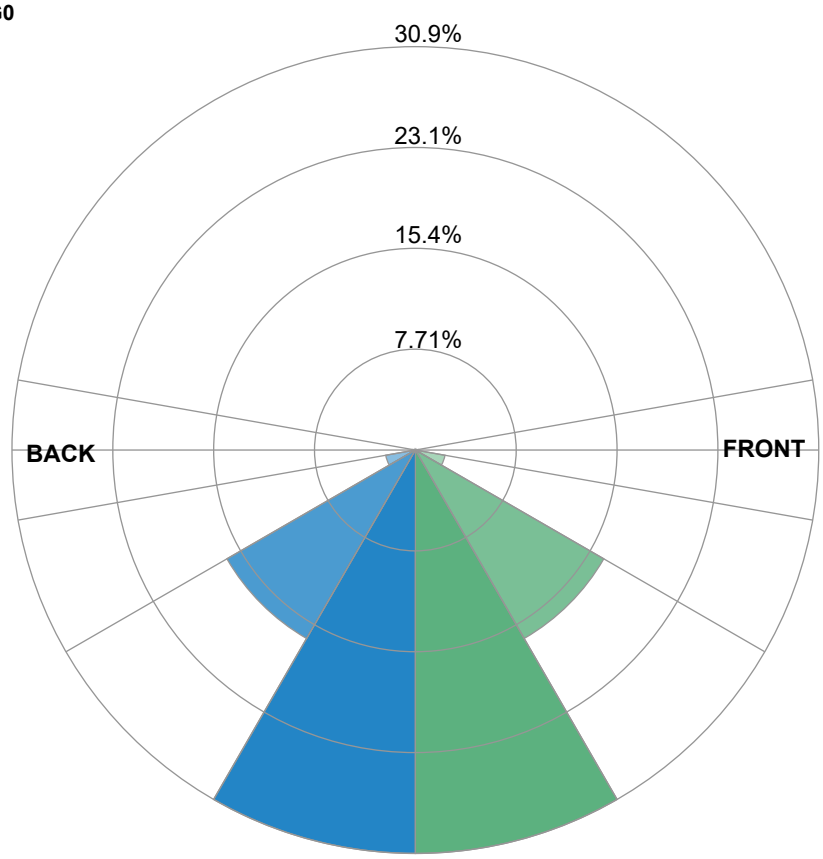
FL200-G2-XXX-RGBW3083-OM-50-INF-XXXXX-X (G)

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

Forward Light			
Low (0-30°)	1430	lm	30.9%
Medium (30-60°)	770	lm	16.6%
High (60-80°)	106	lm	2.30%
Very High (80-90°)	9.72	lm	0.210%
Back Light			
Low (0-30°)	1430	lm	30.9%
Medium (30-60°)	770	lm	16.6%
High (60-80°)	106	lm	2.30%
Very High (80-90°)	9.72	lm	0.210%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	4626	lm	100%

BUG RATING B3 U0 G0