Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-50-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.16-7931-VO
Measurement date	2026-04-16

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	2.00°
Input Power	127.4 W

Electrical Data

Input Power	127.4 W
Input Voltage	381.4 V DC
Input Current	0.33 A
Power Factor	1.00

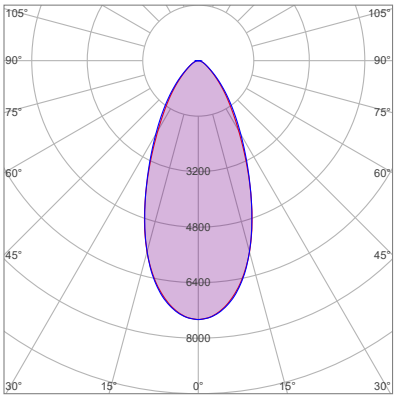
Tested Light Source

Product family	FL200-G2
Luminaire configuration	FL200-G2-XXX-RGBW3083-OM-50-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

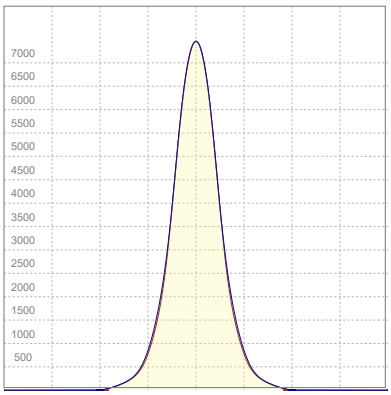
Output – Total Lumen	6075 - 0.1926% / 99.81%
Efficiency	47.69 lm/W
Peak Intensity	7464
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	46.4°
Beam Angle (FWHM) | C90/270	46.6°
Field Angle (10%) | C0/180	91.0°Unit: 0-100% of peak intensity
Optical Power	25791 mW
Peak Wavelength	453 nm
Dominant Wavelength	541 nm

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

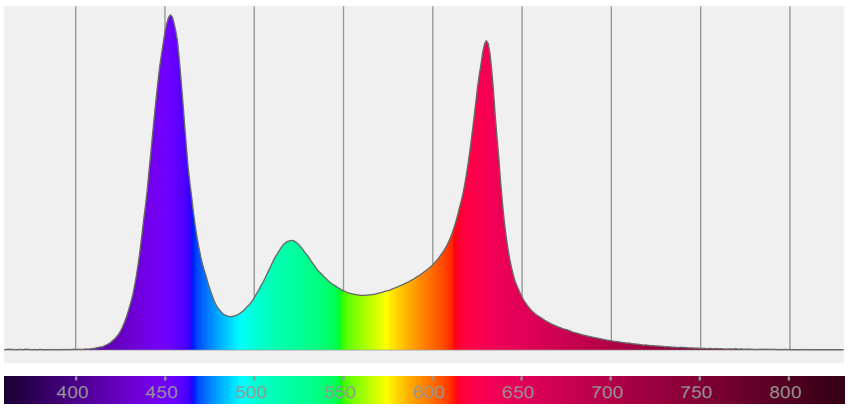


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

NaN K

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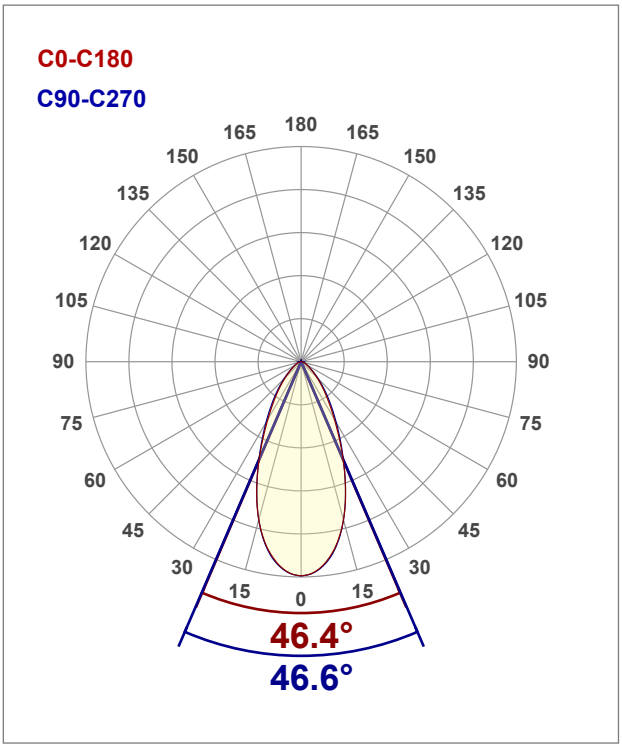
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	6075 lm
Lumen Up% / Down%	0.1926% / 99.81%
Peak Intensity	7464 cd
Beam Angle (50%-FWHM)	46.1°

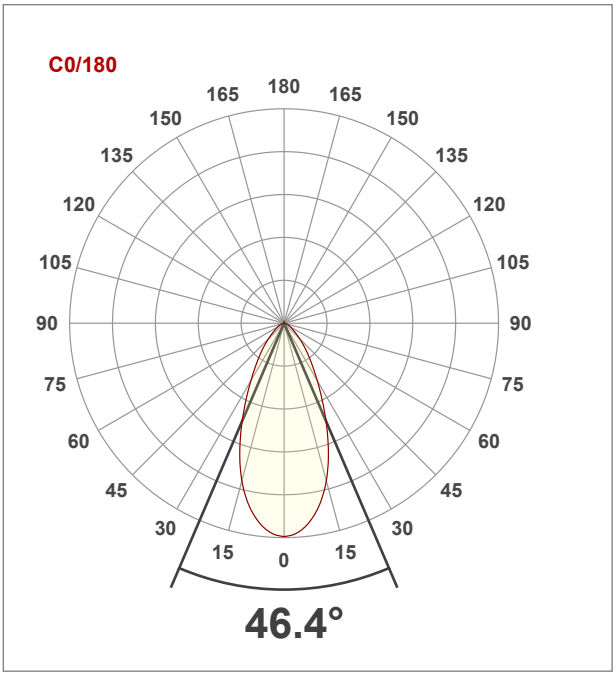
EU Ecodesign parameters

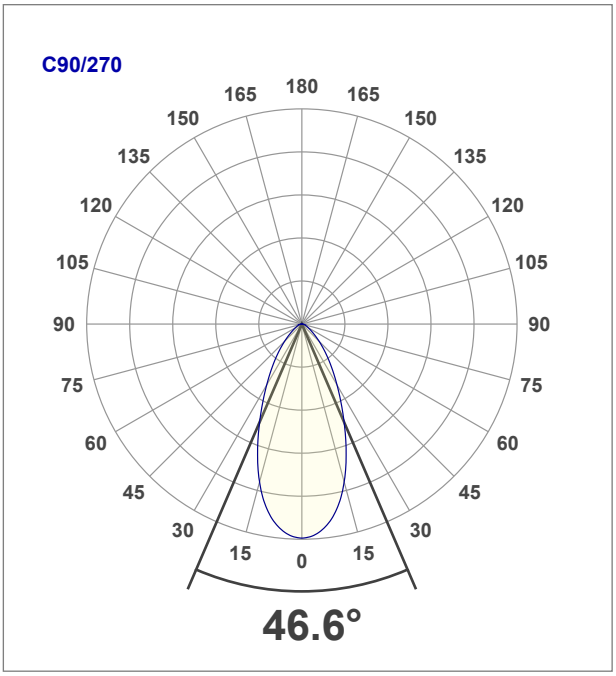
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	5167 lm
Ecodesign Energy Class	G

Intensity Ratio

In 120° cone	94.81%
In 90° cone	85.04%

Angular Distribution





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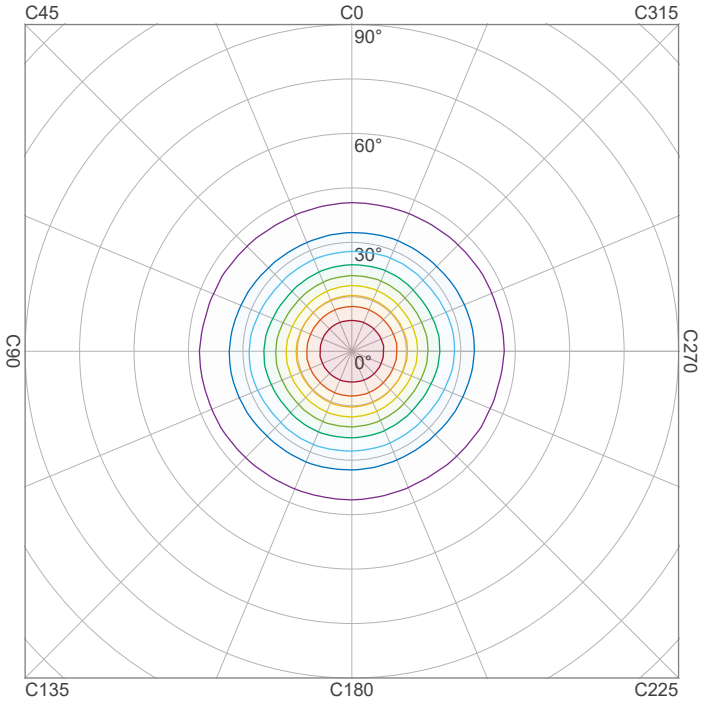
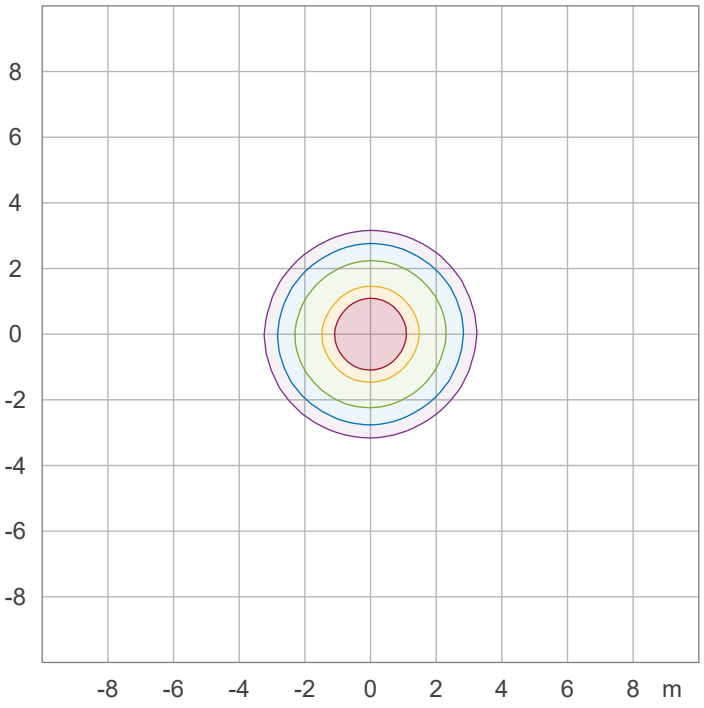
Iso-intensity Diagram (Iso-candela)



90 %	6717.0 cd
80 %	5970.6 cd
70 %	5224.3 cd
60 %	4478.0 cd
50 %	3731.6 cd
40 %	2985.3 cd
30 %	2239.0 cd
20 %	1492.7 cd
10 %	746.3 cd

Peak intensity: 7463.3 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	414 lx
30.0 %	249 lx
10.0 %	82.9 lx
5.0 %	41.4 lx
3.0 %	24.9 lx

Peak illuminance: 829 lx
Mounting height: 3 m
Number of c-planes: 36

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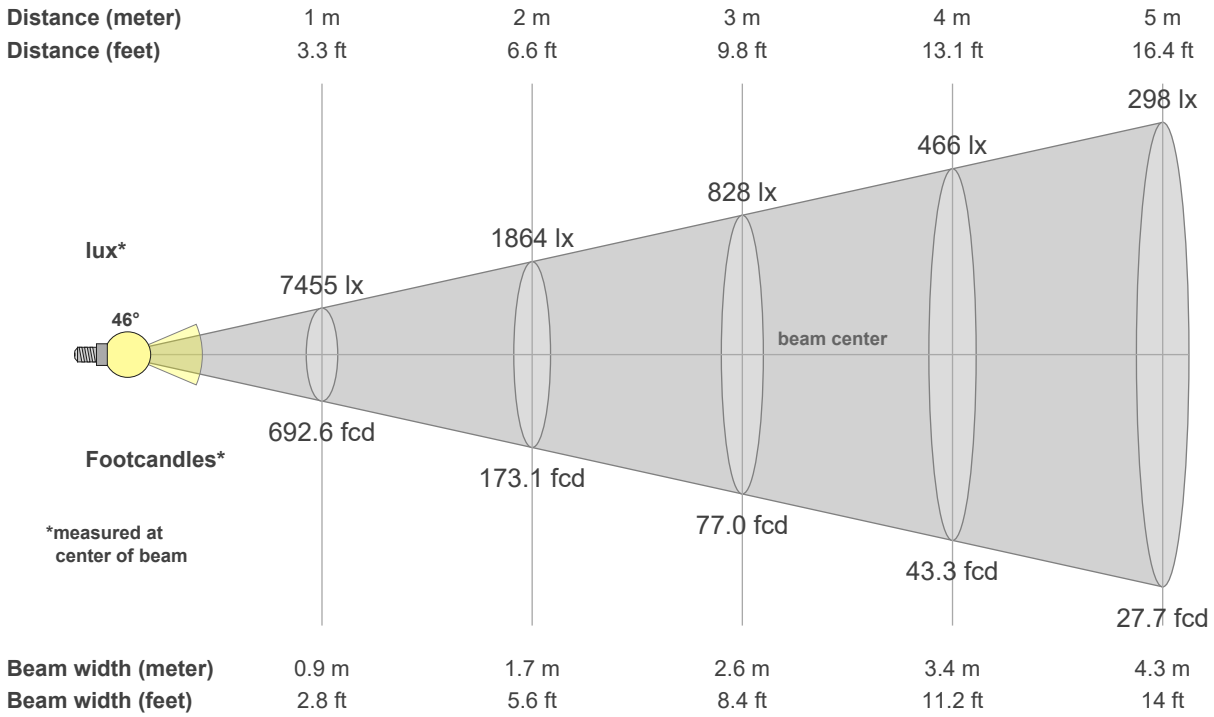
Beam details



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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
7455	1864	828	466	298	207	152	116	92	75	62	52	44	38	33	29	26	23	21	19	lux
692.6	173.1	77	43.3	27.7	19.2	14.1	10.8	8.6	6.9	5.7	4.8	4.1	3.5	3.1	2.7	2.4	2.1	1.9	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
7455	7418	7313	7145	6915	6634	6295	5912	5478	5007	4508	4014	3533	3088	2680	2328	2020	1756	1527	1327	cd
100%	100%	98%	96%	93%	89%	84%	79%	73%	67%	60%	54%	47%	41%	36%	31%	27%	24%	20%	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
7455	7422	7327	7168	6951	6667	6323	5916	5468	4988	4501	4023	3574	3162	2790	2455	2159	1894	1657	1442	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
7455	7418	7313	7145	6915	6634	6295	5912	5478	5007	4508	4014	3533	3088	2680	2328	2020	1756	1527	1327	cd
100%	100%	98%	96%	93%	89%	84%	79%	73%	67%	60%	54%	47%	41%	36%	31%	27%	24%	20%	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
7455	7422	7327	7168	6951	6667	6323	5916	5468	4988	4501	4023	3574	3162	2790	2455	2159	1894	1657	1442	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	0.0 Hz
Power feed to light source	127.4 W
RMS Input voltage feed V,RMS	381.4 V
RMS Input current feed I,RMS	0.33 A
Volt-Amp or apparent power = V,RMS*I,RMS	127.4 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

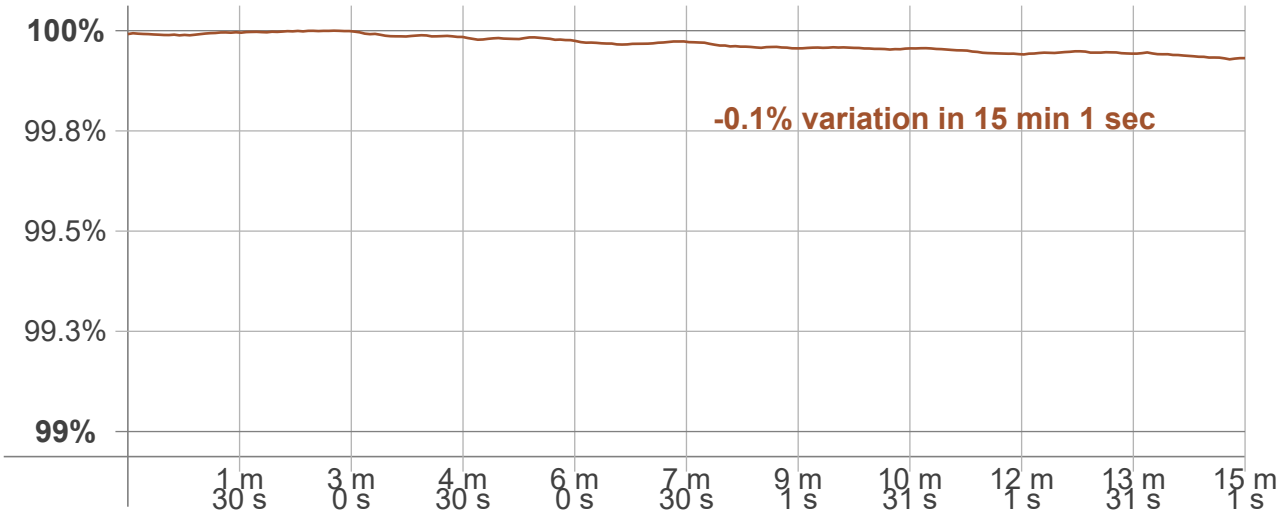
Efficiency

Radiated power efficiency	20.25
Lumen efficiency	47.69 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	6079 lm
Warmup variation	-0.0951%	Output change	-3.3791 lm
		Output end	6075 lm

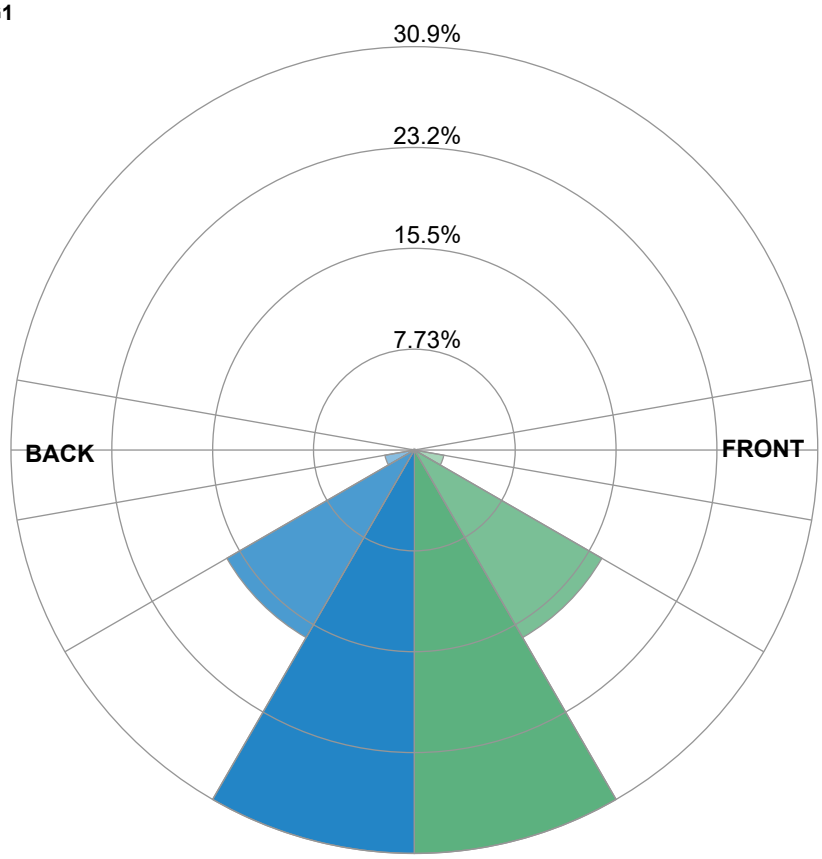
Stabilization Curve



Photometric Test Report

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

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

Forward Light			
Low (0-30°)	1880	lm	30.9%
Medium (30-60°)	1010	lm	16.6%
High (60-80°)	139	lm	2.29%
Very High (80-90°)	13.2	lm	0.217%
Back Light			
Low (0-30°)	1880	lm	30.9%
Medium (30-60°)	1010	lm	16.6%
High (60-80°)	139	lm	2.29%
Very High (80-90°)	13.2	lm	0.217%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	6075	lm	100%

BUG RATING B3 U0 G1