Photometric Test Report

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

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.16-7927-VO
Measurement date	2026-04-16

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	2.00°
Input Power	128.5 W

Electrical Data

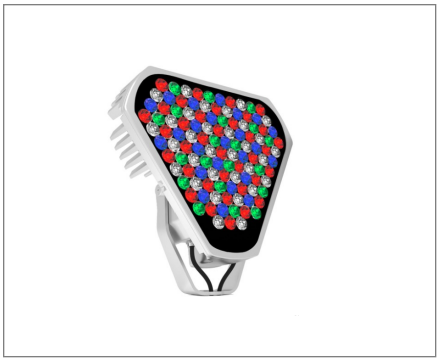
Input Power	128.5 W
Input Voltage	381.4 V DC
Input Current	0.34 A
Power Factor	1.00

Tested Light Source

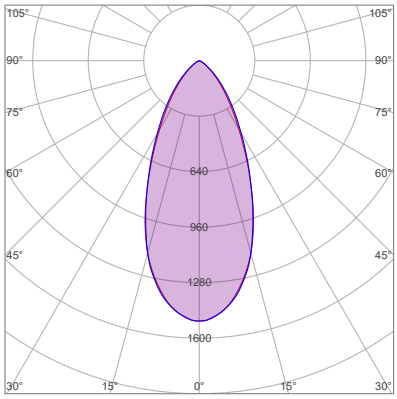
Product family	FL200-G2
Luminaire configuration	FL200-G2-XXX-RGBW3083-OM-50-INF-XXXXX-X (B)
Manufacturer	GVA Lighting, Inc.
Size (width x length x height)	106 mm 0 mm x 430 mm

Main Light Measurement Results

Output – Total Lumen	1120 - 0% / 100%
Efficiency	8.71 lm/W
Peak Intensity	1501
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	46.2°
Beam Angle (FWHM) | C90/270	46.3°
Field Angle (10%) | C0/180	88.0°Unit: 0-100% of peak intensity
Optical Power	26296 mW
Peak Wavelength	454 nm
Dominant Wavelength	458 nm

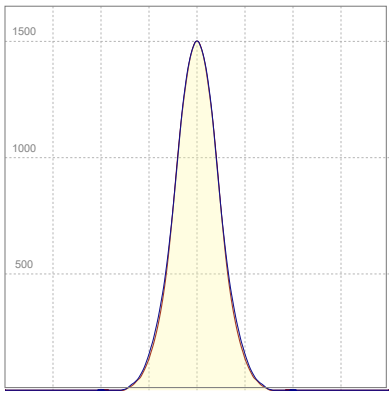


Polar Light Distribution Diagram
Unit: 0-100% of peak intensity

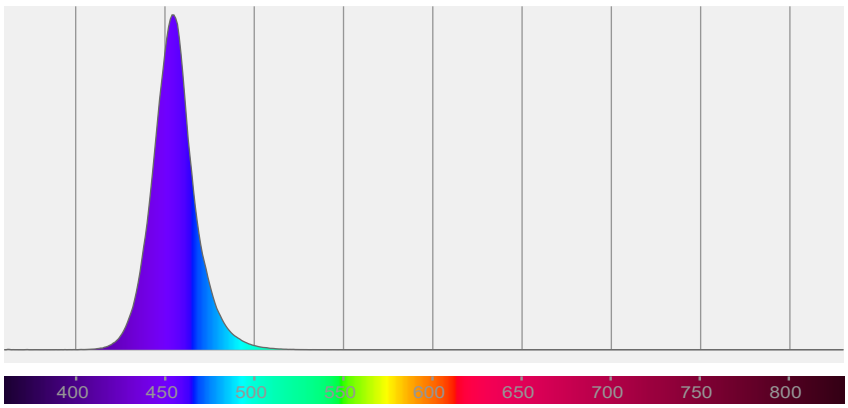


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

NaN K

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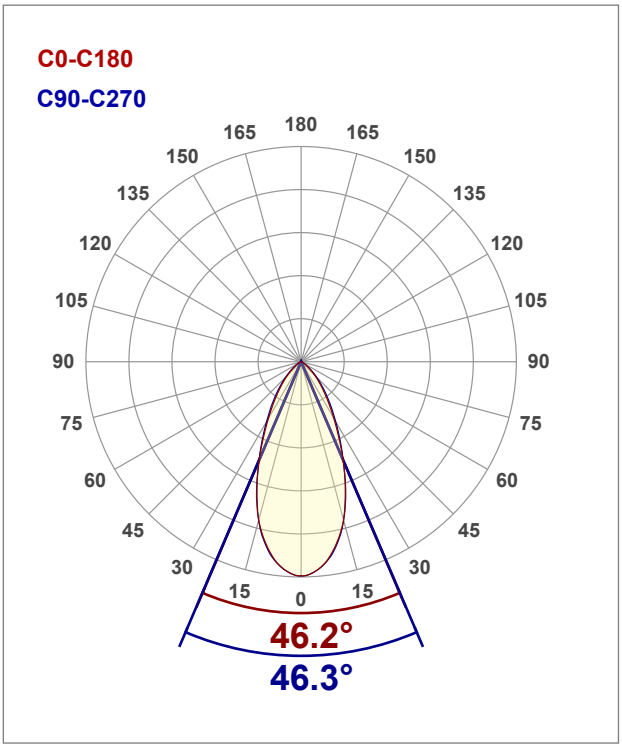
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	1120 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	1501 cd
Beam Angle (50%-FWHM)	45.9°

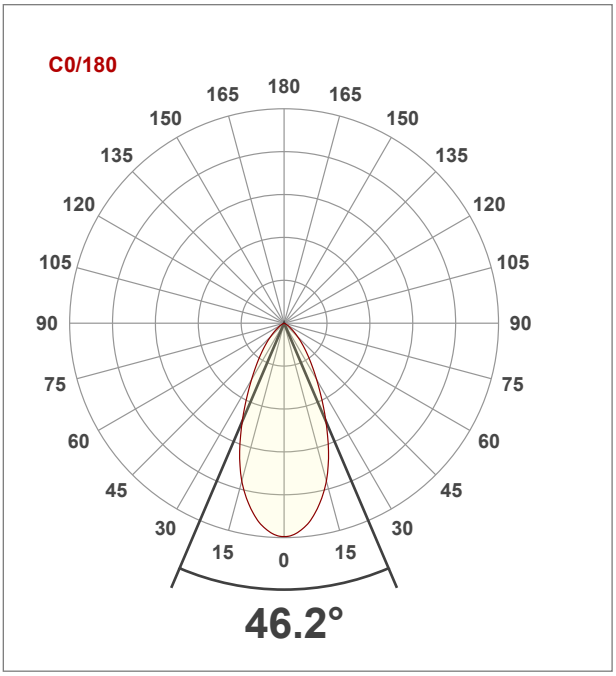
EU Ecodesign parameters

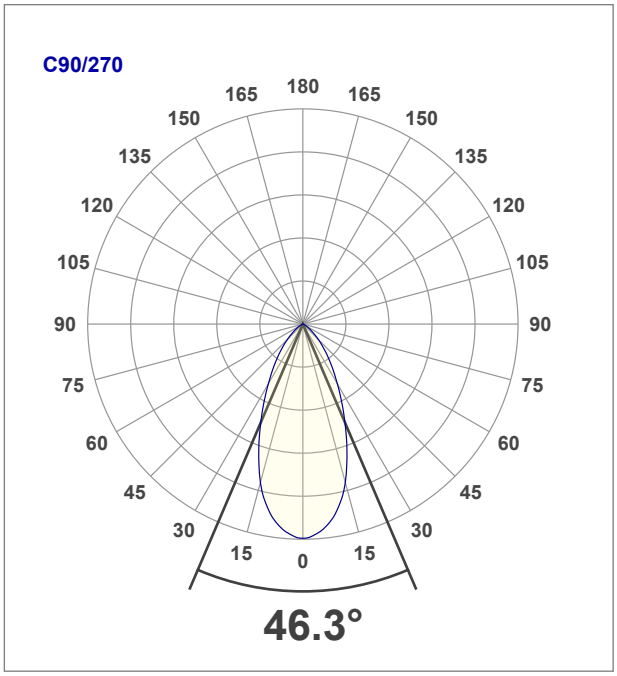
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	1021 lm
Ecodesign Energy Class	G

Intensity Ratio

In 120° cone	99.16%
In 90° cone	91.21%

Angular Distribution





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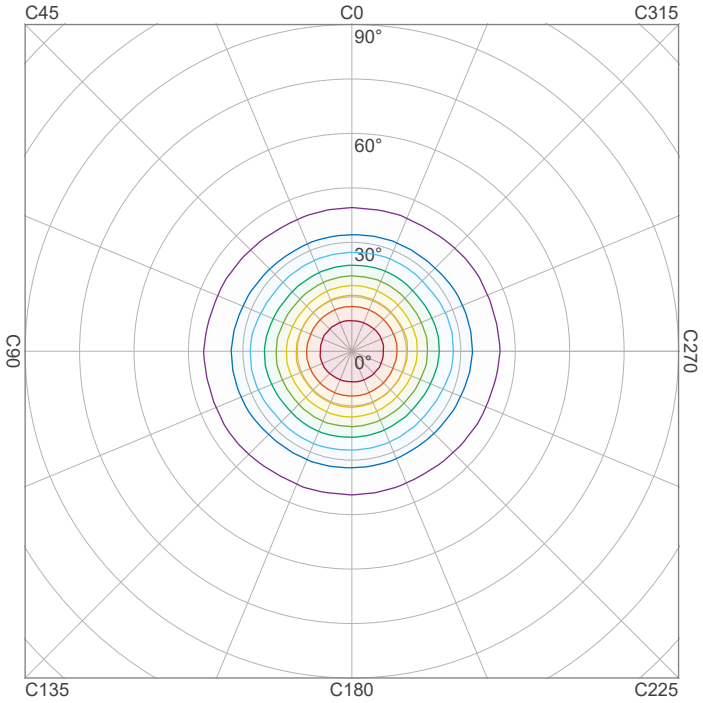
Iso-intensity Diagram (Iso-candela)

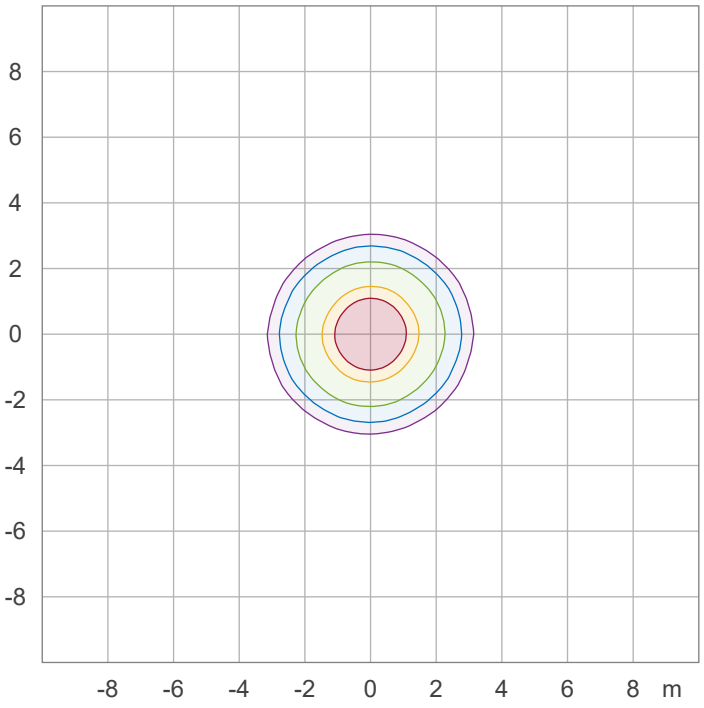


90 %	1350.3 cd
80 %	1200.2 cd
70 %	1050.2 cd
60 %	900.2 cd
50 %	750.1 cd
40 %	600.1 cd
30 %	450.1 cd
20 %	300.1 cd
10 %	150.0 cd

Peak intensity: 1500.3 cd

Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	83.3 lx
30.0 %	50 lx
10.0 %	16.7 lx
5.0 %	8.33 lx
3.0 %	5 lx

Peak illuminance: 167 lx

Mounting height: 3 m

Number of c-planes: 36

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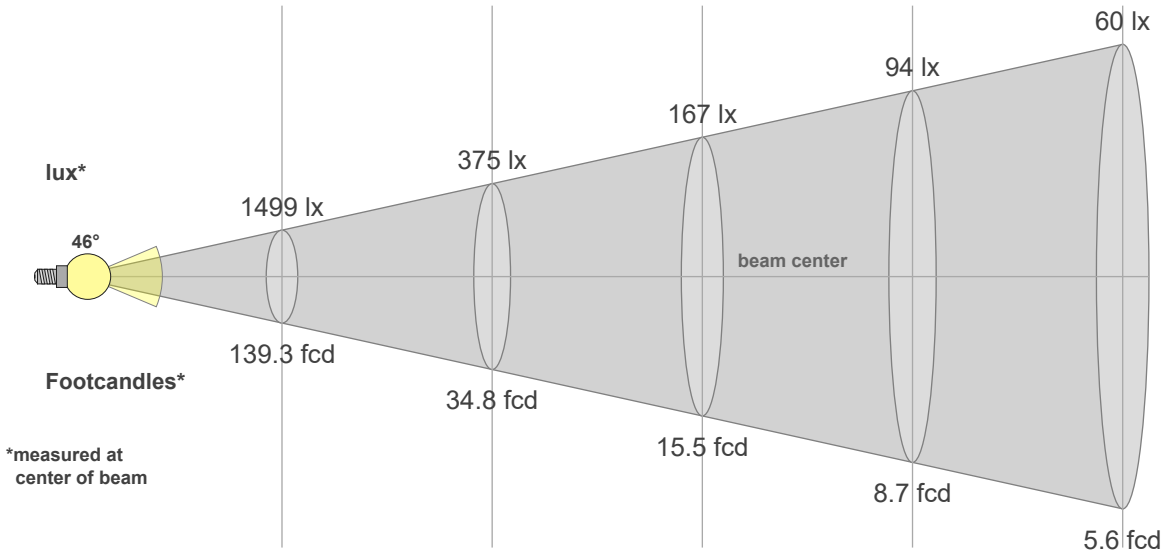
Beam details

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	1.7 m	2.5 m	3.4 m	4.2 m
Beam width (feet)	2.8 ft	5.6 ft	8.3 ft	11.1 ft	13.9 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
1499	375	167	94	60	42	31	23	19	15	12	10	9	8	7	6	5	5	4	4	lux
139.3	34.8	15.5	8.7	5.6	3.9	2.8	2.2	1.7	1.4	1.2	1	0.8	0.7	0.6	0.5	0.5	0.4	0.4	0.3	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
1499	1492	1469	1435	1388	1329	1262	1188	1104	1009	908	805	707	615	531	459	396	340	292	250	cd
100%	100%	98%	96%	93%	89%	84%	79%	74%	67%	61%	54%	47%	41%	35%	31%	26%	23%	19%	17%	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
1499	1491	1469	1437	1394	1338	1271	1193	1100	1000	901	804	713	631	554	485	424	371	321	278	cd
100%	99%	98%	96%	93%	89%	85%	80%	73%	67%	60%	54%	48%	42%	37%	32%	28%	25%	21%	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
1499	1492	1469	1435	1388	1329	1262	1188	1104	1009	908	805	707	615	531	459	396	340	292	250	cd
100%	100%	98%	96%	93%	89%	84%	79%	74%	67%	61%	54%	47%	41%	35%	31%	26%	23%	19%	17%	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
1499	1491	1469	1437	1394	1338	1271	1193	1100	1000	901	804	713	631	554	485	424	371	321	278	cd
100%	99%	98%	96%	93%	89%	85%	80%	73%	67%	60%	54%	48%	42%	37%	32%	28%	25%	21%	19%	of 0°val

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

Power details

Input power	
Frequency of input power	0.0 Hz
Power feed to light source	128.5 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	128.5 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

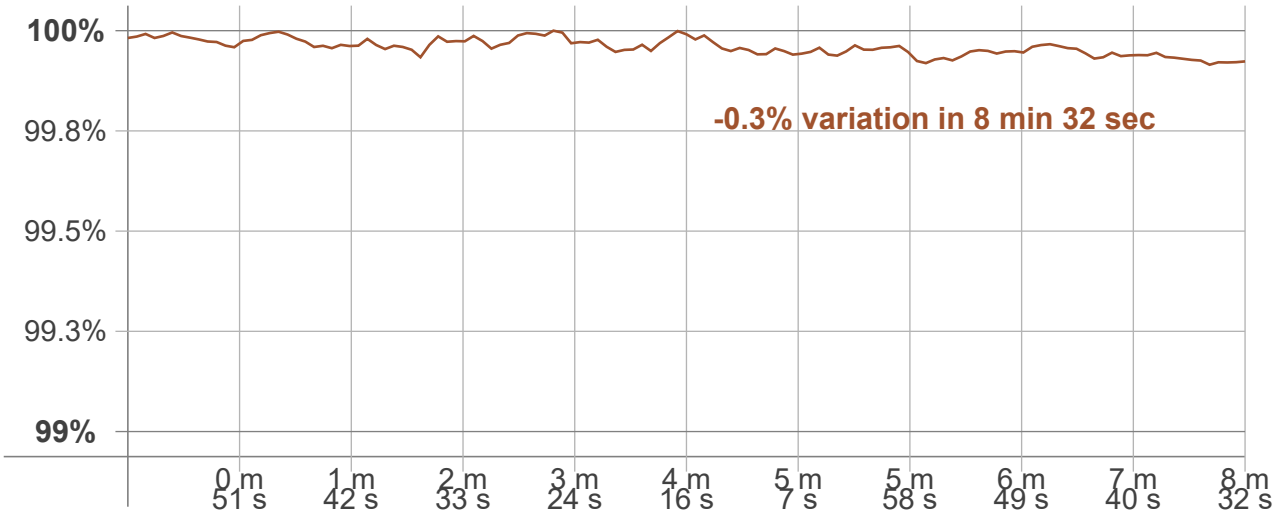
Efficiency

Radiated power efficiency	20.46
Lumen efficiency	8.71 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	1120 lm
Warmup variation	-0.2517%	Output change	-0.2888 lm
		Output end	1120 lm

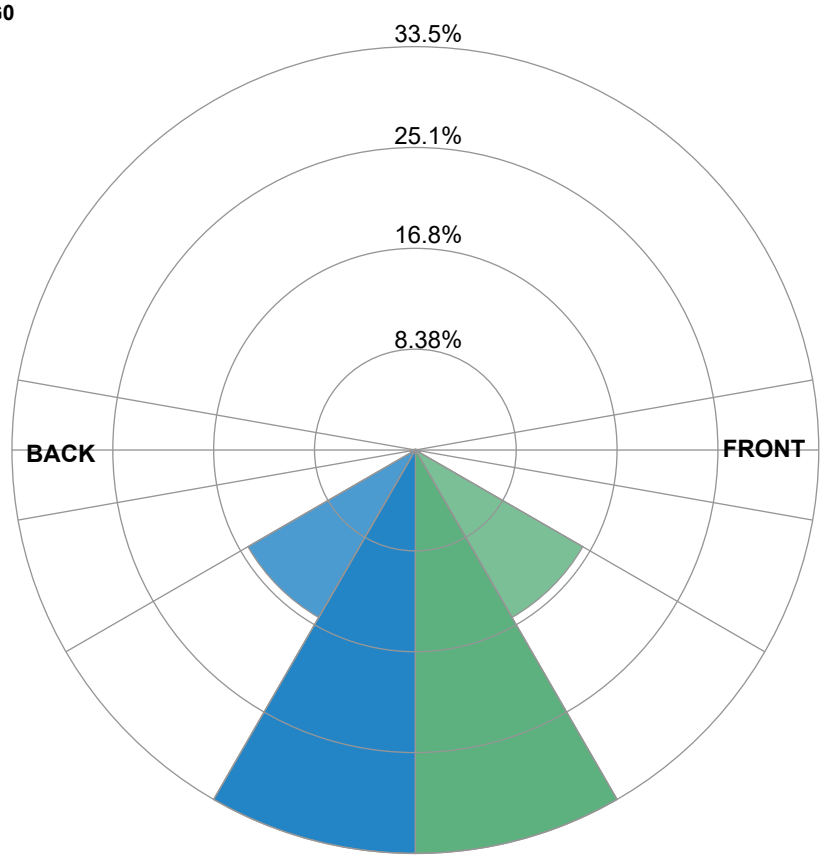
Stabilization Curve



Photometric Test Report

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

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

Forward Light			
Low (0-30°)	375	lm	33.5%
Medium (30-60°)	180	lm	16.1%
High (60-80°)	4.74	lm	0.424%
Very High (80-90°)	0	lm	0%
Back Light			
Low (0-30°)	375	lm	33.5%
Medium (30-60°)	180	lm	16.1%
High (60-80°)	4.74	lm	0.424%
Very High (80-90°)	0	lm	0%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	1120	lm	100%

BUG RATING B1 U0 G0