Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-20L-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.Jun.03-9303-VO
Measurement date	2026-06-03

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	1.00°
Input Power	128.9 W

Electrical Data

Input Power	128.9 W
Input Voltage	381.5 V DC
Input Current	0.34 A
Power Factor	1.00

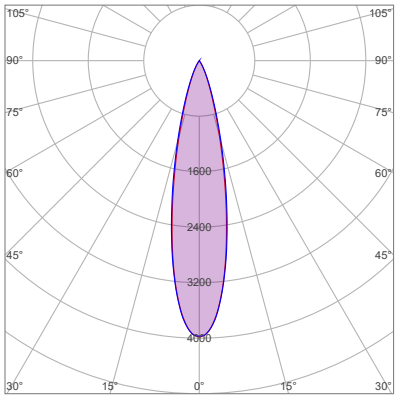
Tested Light Source

Product family	FL200-G2
Luminaire configuration	FL200-G2-XXX-RGBW3083-OM-20L-INF-XXXXX-X (B)
Manufacturer	GVA Lighting, Inc.
Size (width x length x height)	0 mm 0 mm x 10 mm

Main Light Measurement Results

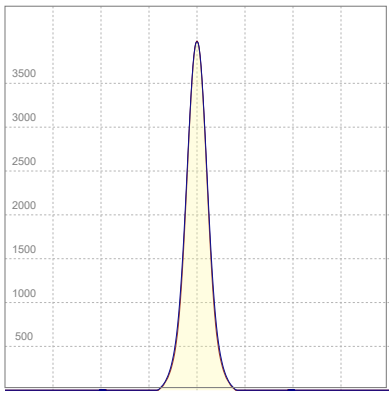
Output – Total Lumen	739 - 0% / 100%
Efficiency	5.731 lm/W
Peak Intensity	3981
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	22.0°
Beam Angle (FWHM) | C90/270	22.7°
Field Angle (10%) | C0/180	42.6°Unit: 0-100% of peak intensity
Optical Power	17409 mW
Peak Wavelength	454 nm
Dominant Wavelength	458 nm

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

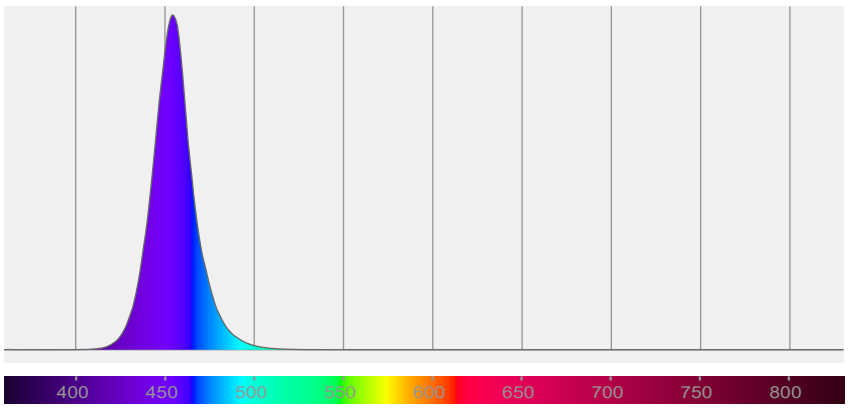


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

NaN K

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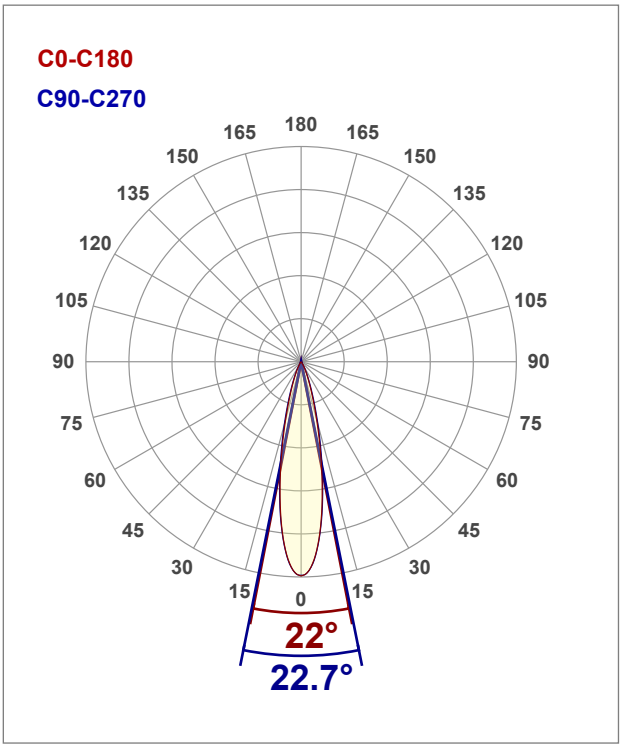
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	739 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	3981 cd
Beam Angle (50%-FWHM)	22.3°

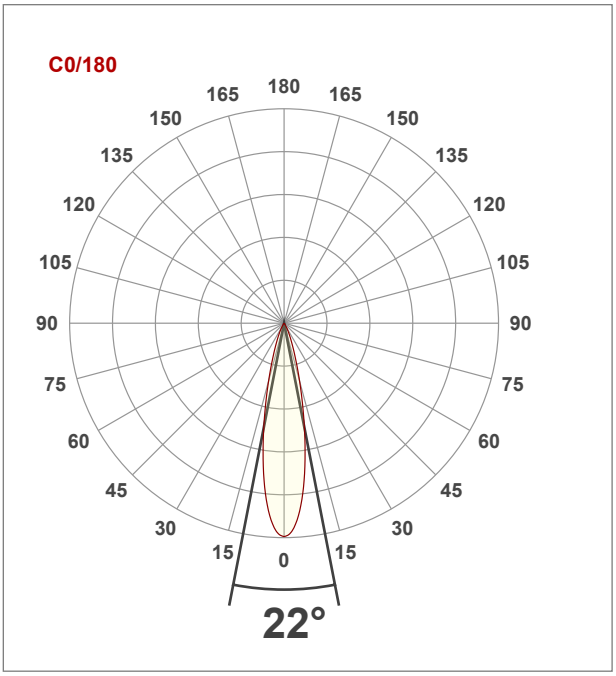
EU Ecodesign parameters

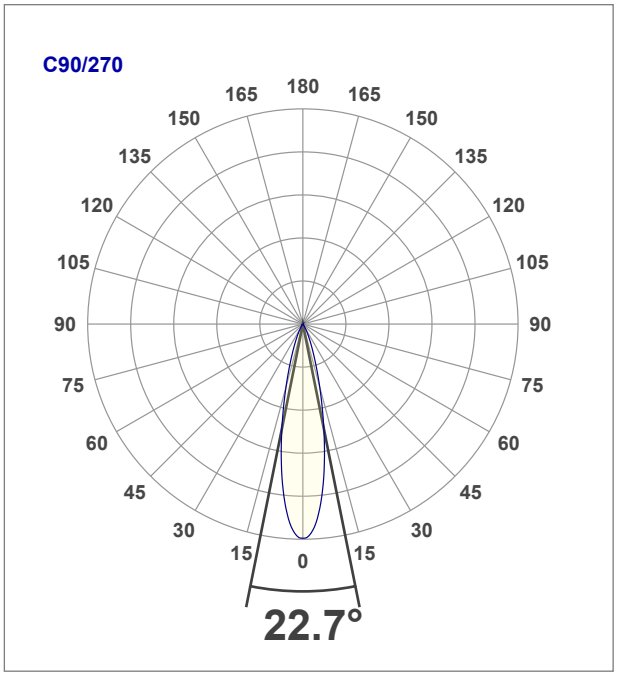
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	739 lm
Ecodesign Energy Class	G

Intensity Ratio

In 120° cone	100%
In 90° cone	100%

Angular Distribution





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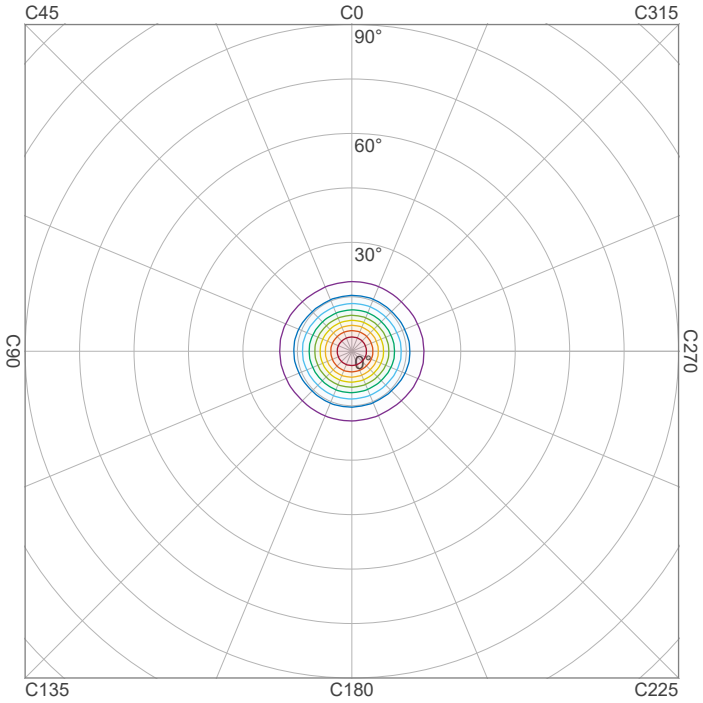
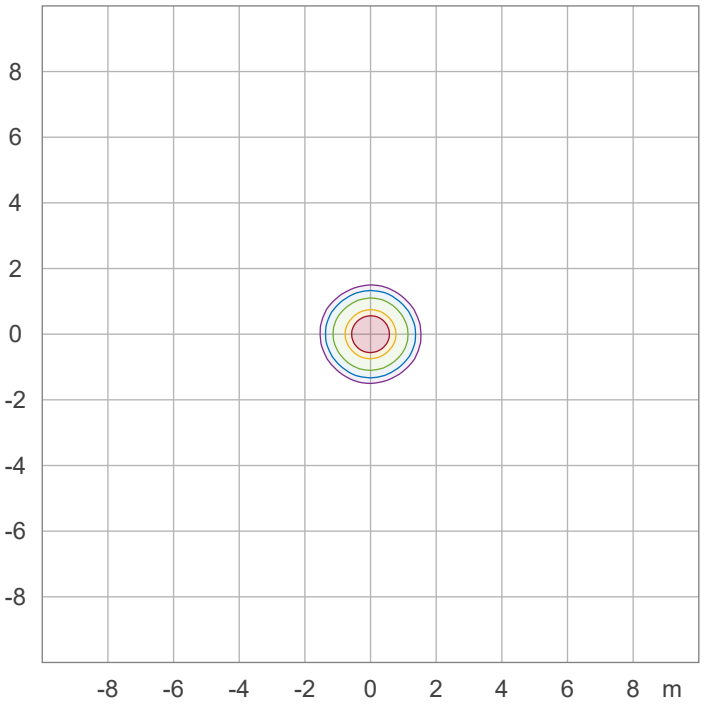
Iso-intensity Diagram (Iso-candela)



90 %	3575.9 cd
80 %	3178.6 cd
70 %	2781.3 cd
60 %	2384.0 cd
50 %	1986.6 cd
40 %	1589.3 cd
30 %	1192.0 cd
20 %	794.7 cd
10 %	397.3 cd

Peak intensity: 3973.3 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	221 lx
30.0 %	132 lx
10.0 %	44.1 lx
5.0 %	22.1 lx
3.0 %	13.2 lx

Peak illuminance: 441 lx
Mounting height: 3 m
Number of c-planes: 36

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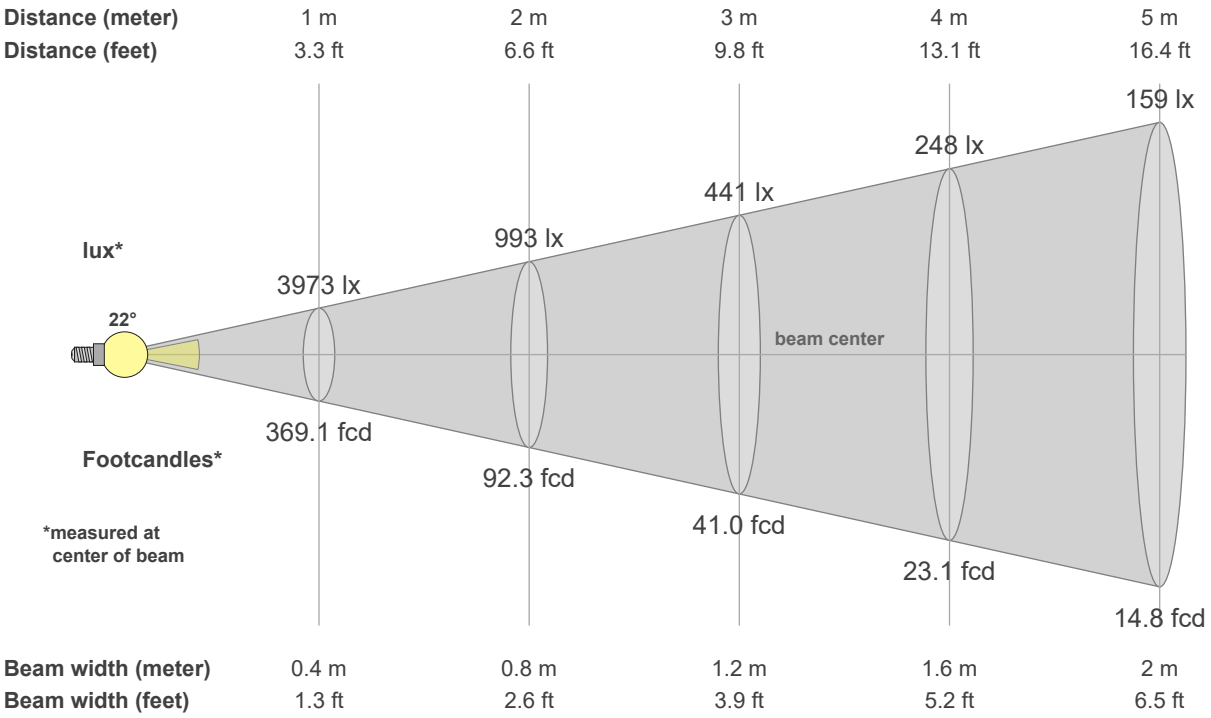
Beam details



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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
3973	993	441	248	159	110	81	62	49	40	33	28	24	20	18	16	14	12	11	10	lux
369.1	92.3	41	23.1	14.8	10.3	7.5	5.8	4.6	3.7	3.1	2.6	2.2	1.9	1.6	1.4	1.3	1.1	1	0.9	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
3973	3895	3643	3253	2768	2245	1744	1307	953	683	493	356	257	185	128	87	48	23	3	0	cd
100%	98%	92%	82%	70%	57%	44%	33%	24%	17%	12%	9%	6%	5%	3%	2%	1%	1%	0%	0%	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
3973	3897	3656	3271	2807	2306	1826	1397	1041	762	554	402	290	207	144	94	59	32	9	0	cd
100%	98%	92%	82%	71%	58%	46%	35%	26%	19%	14%	10%	7%	5%	4%	2%	1%	1%	0%	0%	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
3973	3895	3643	3253	2768	2245	1744	1307	953	683	493	356	257	185	128	87	48	23	3	0	cd
100%	98%	92%	82%	70%	57%	44%	33%	24%	17%	12%	9%	6%	5%	3%	2%	1%	1%	0%	0%	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
3973	3897	3656	3271	2807	2306	1826	1397	1041	762	554	402	290	207	144	94	59	32	9	0	cd
100%	98%	92%	82%	71%	58%	46%	35%	26%	19%	14%	10%	7%	5%	4%	2%	1%	1%	0%	0%	of 0°val

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Power details

Input power	
Frequency of input power	0.0 Hz
Power feed to light source	128.9 W
RMS Input voltage feed V,RMS	381.5 V
RMS Input current feed I,RMS	0.34 A
Volt-Amp or apparent power = V,RMS*I,RMS	128.9 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

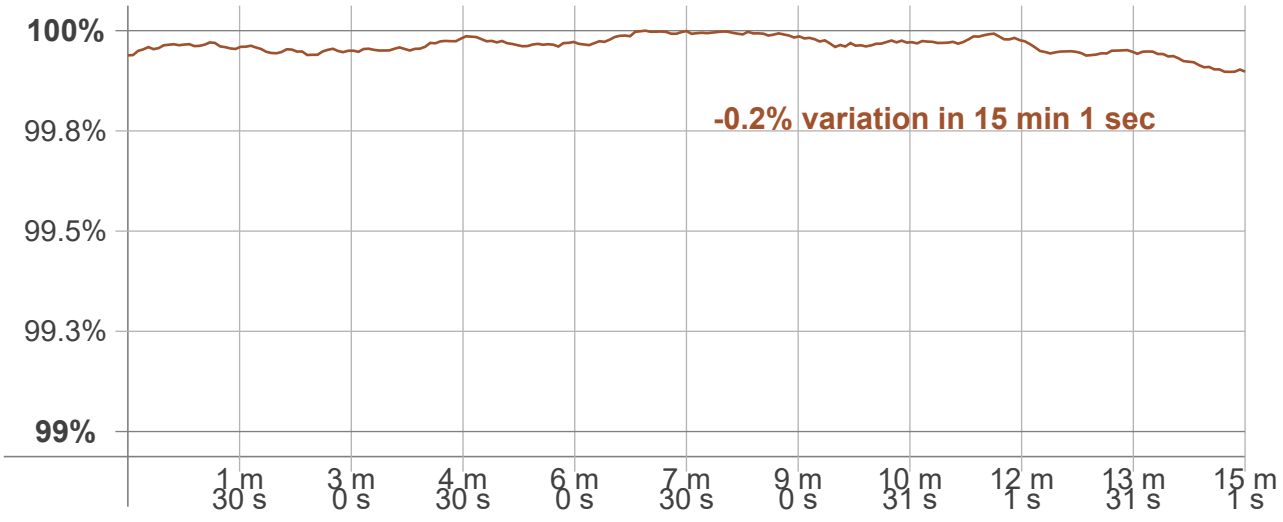
Efficiency

Radiated power efficiency	13.5
Lumen efficiency	5.731 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	739.1 lm
Warmup variation	-0.1726%	Output change	-82.523 lm
		Output end	739 lm

Stabilization Curve



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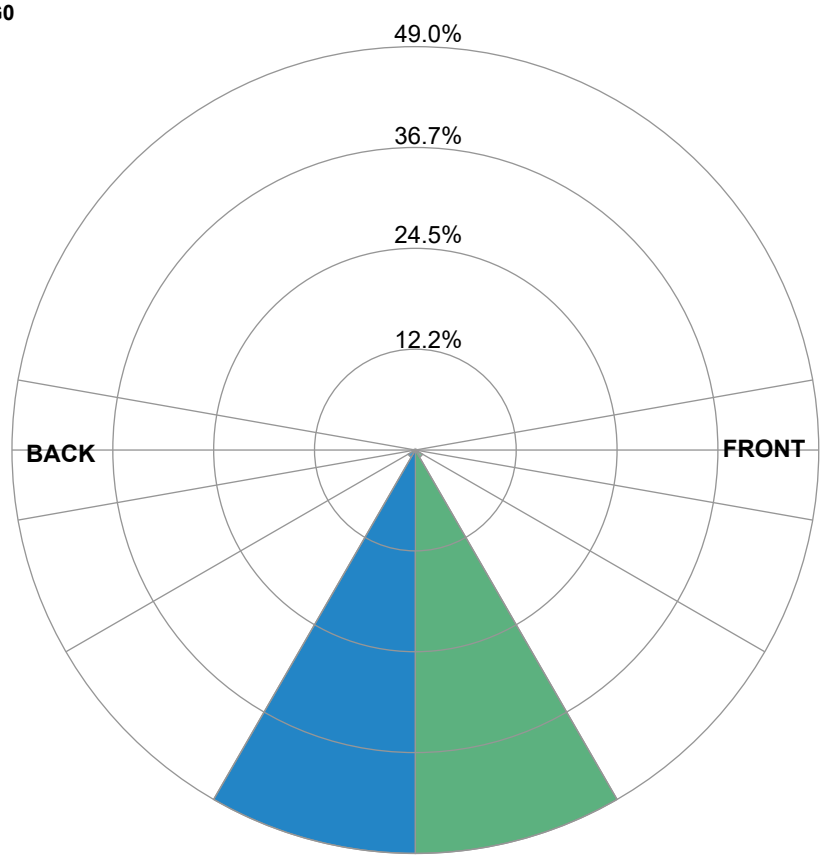
FL200-G2-XXX-RGBW3083-OM-20L-INF-XXXXX-X (B)

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

Forward Light			
Low (0-30°)	362	lm	49.0%
Medium (30-60°)	7.49	lm	1.01%
High (60-80°)	0	lm	0%
Very High (80-90°)	0	lm	0%
Back Light			
Low (0-30°)	362	lm	49.0%
Medium (30-60°)	7.49	lm	1.01%
High (60-80°)	0	lm	0%
Very High (80-90°)	0	lm	0%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	739	lm	100%

BUG RATING B1 U0 G0