Photometric Test Report

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

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.May.26-8916-VO
Measurement date	2026-05-26

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	381.4 V DC
Input Current	0.34 A
Power Factor	1.00

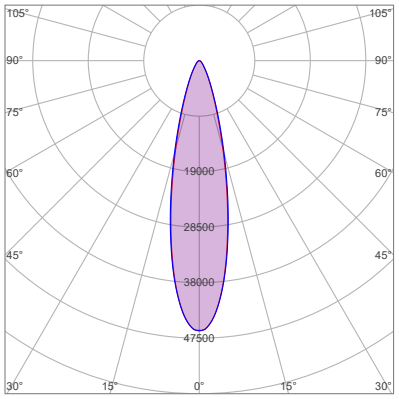
Tested Light Source

Product family	FL200-G2
Luminaire configuration	FL200-G2-XXX-RGBW3083-OM-20-INF-XXXXX-X (W)
Manufacturer	GVA Lighting, Inc.
Size (width x length x height)	106 mm 0 mm x 430 mm

Main Light Measurement Results

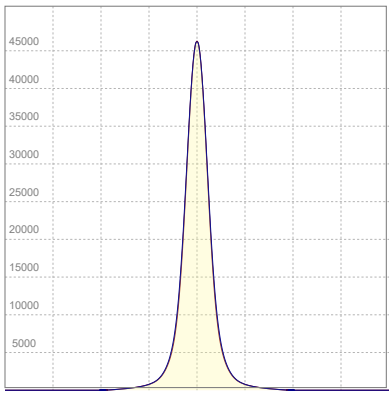
Output – Total Lumen	12457 - 0.0222% / 99.98%
Efficiency	96.63 lm/W
Peak Intensity	46277
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	23.6°
Beam Angle (FWHM) | C90/270	24.2°
Field Angle (10%) | C0/180	49.0°Unit: 0-100% of peak intensity
Optical Power	37312 mW
Peak Wavelength	601 nm
Dominant Wavelength	584 nm

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

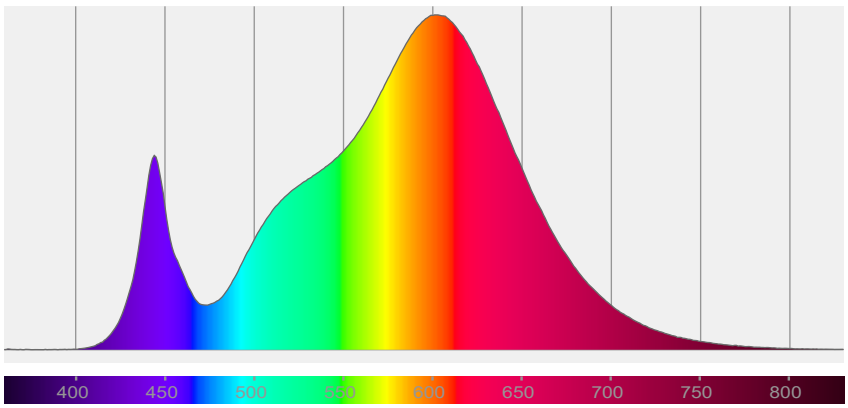


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

3022 K

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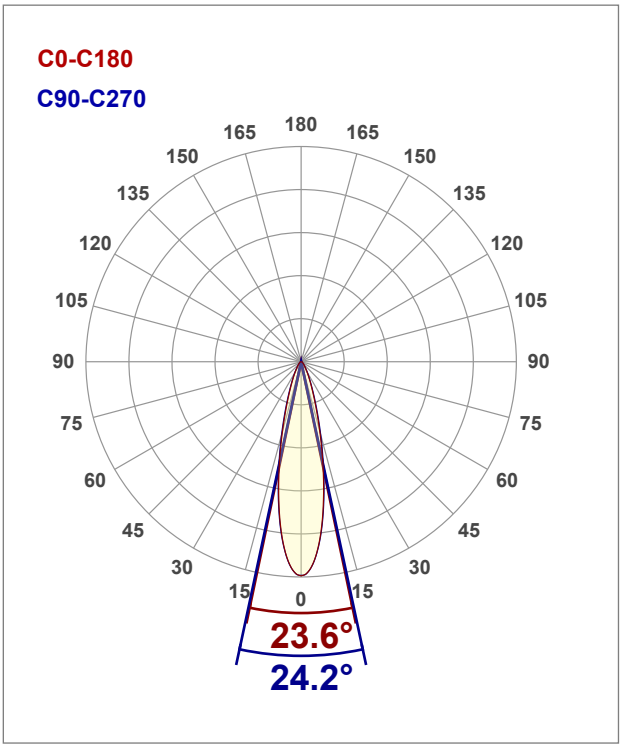
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	12457 lm
Lumen Up% / Down%	0.0222% / 99.98%
Peak Intensity	46277 cd
Beam Angle (50%-FWHM)	23.8°

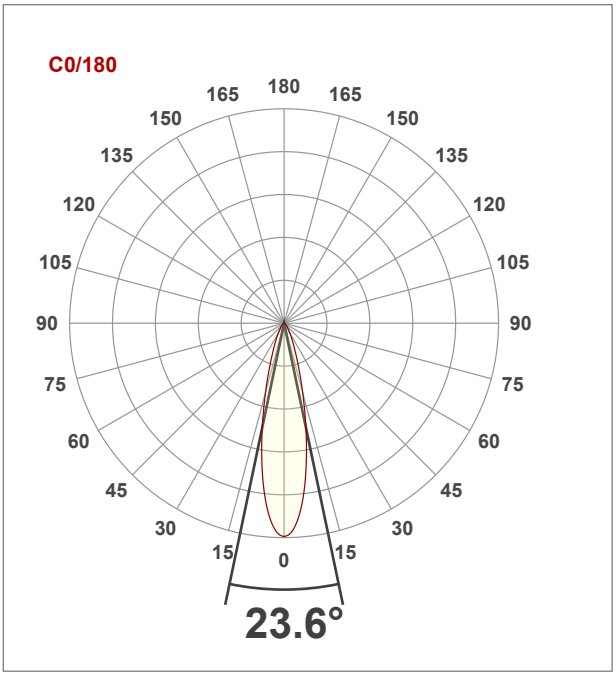
EU Ecodesign parameters

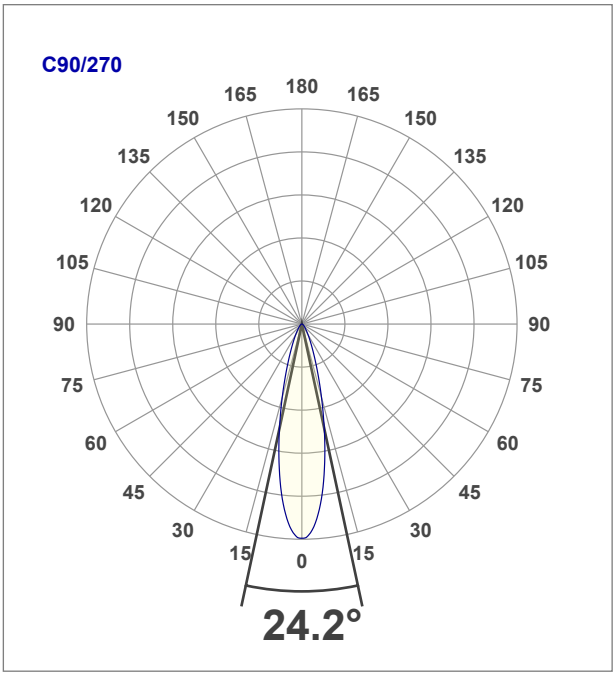
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	11.41 lm
Ecodesign Energy Class	F

Intensity Ratio

In 120° cone	96.9%
In 90° cone	91.58%

Angular Distribution





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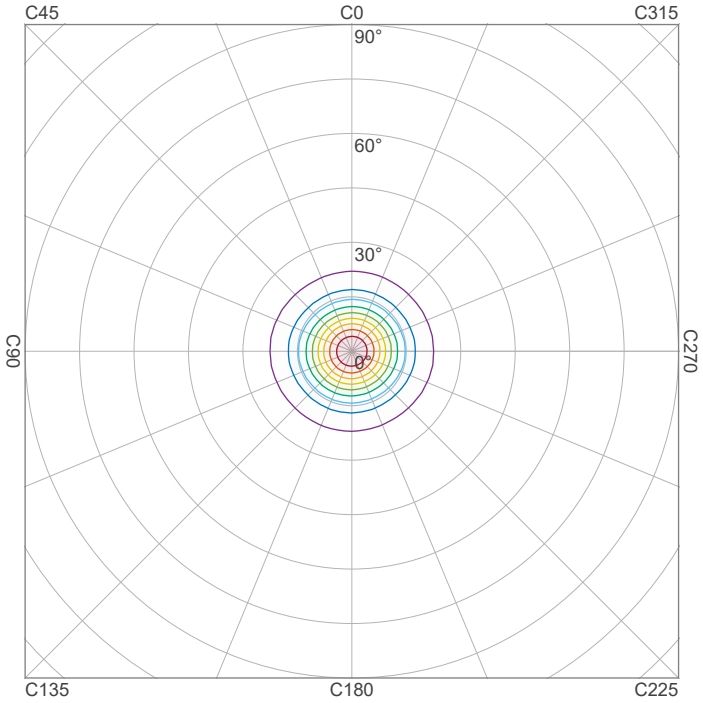
FL200-G2-XXX-RGBW3083-OM-20-INF-XXXXX-X (W)

Iso-intensity Diagram (Iso-candela)

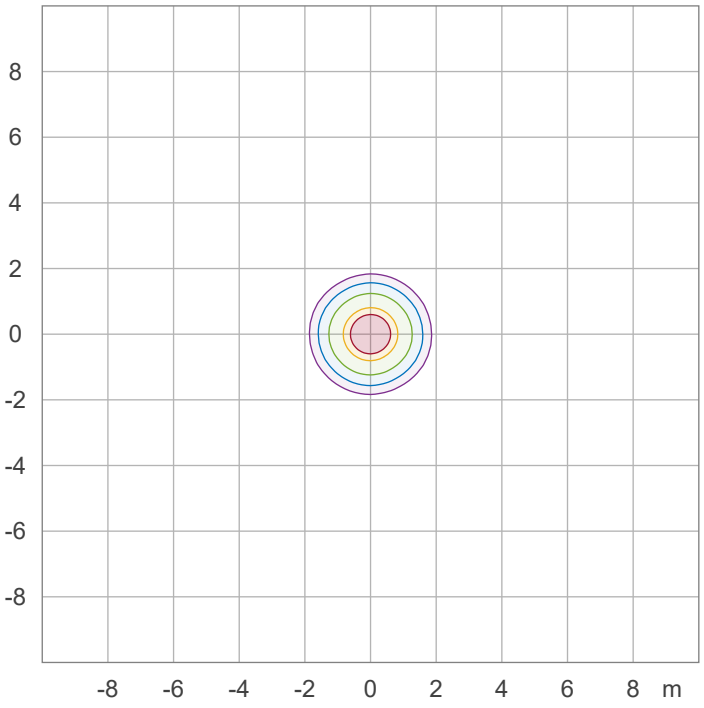


90 %	41586.2 cd
80 %	36965.5 cd
70 %	32344.8 cd
60 %	27724.1 cd
50 %	23103.4 cd
40 %	18482.7 cd
30 %	13862.1 cd
20 %	9241.4 cd
10 %	4620.7 cd

Peak intensity: 46206.8 cd

Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	2567 lx
30.0 %	1540 lx
10.0 %	513 lx
5.0 %	257 lx
3.0 %	154 lx

Peak illuminance: 5134 lx

Mounting height: 3 m

Number of c-planes: 36

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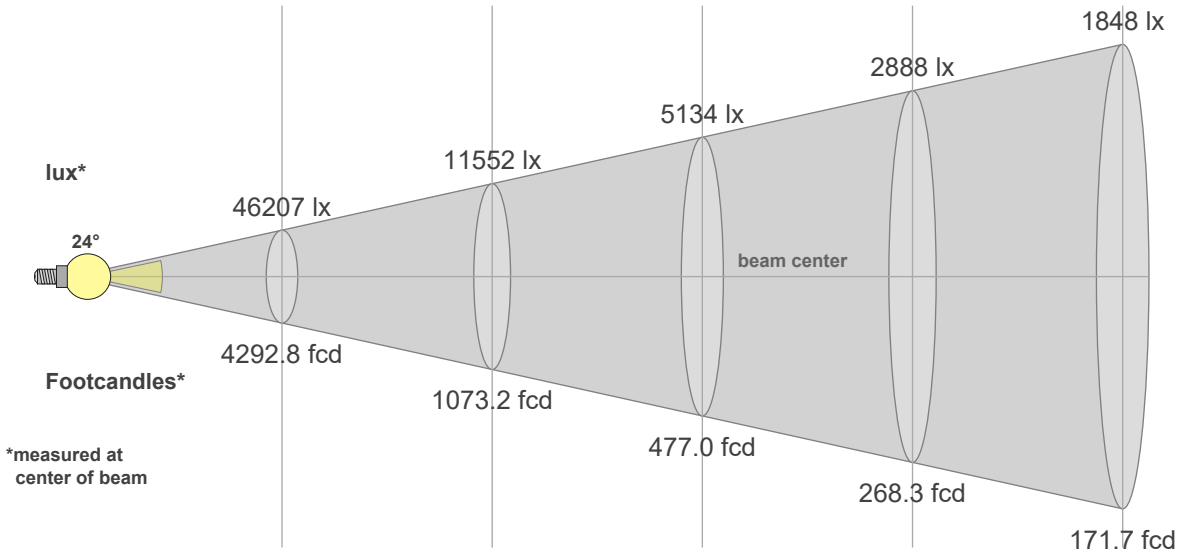
Beam details

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)	0.4 m	0.8 m	1.3 m	1.7 m	2.1 m
Beam width (feet)	1.4 ft	2.8 ft	4.2 ft	5.5 ft	6.9 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
46207	11552	5134	2888	1848	1284	943	722	570	462	382	321	273	236	205	180	160	143	128	116	lux
4292.8	1073.2	477	268.3	171.7	119.2	87.6	67.1	53	42.9	35.5	29.8	25.4	21.9	19.1	16.8	14.9	13.2	11.9	10.7	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
46.2k	45.3k	42.7k	38.6k	33.5k	28.0k	22.6k	17.7k	13.7k	10.4k	8.0k	6.2k	4.9k	3.9k	3.2k	2.6k	2.1k	1.8k	1.5k	1.2k	cd
100%	98%	92%	83%	73%	61%	49%	38%	30%	23%	17%	13%	11%	8%	7%	6%	5%	4%	3%	3%	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
46.2k	45.4k	42.8k	38.8k	33.9k	28.5k	23.3k	18.5k	14.4k	11.1k	8.5k	6.6k	5.2k	4.1k	3.3k	2.7k	2.2k	1.8k	1.5k	1.3k	cd
100%	98%	93%	84%	73%	62%	50%	40%	31%	24%	18%	14%	11%	9%	7%	6%	5%	4%	3%	3%	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
46.2k	45.3k	42.7k	38.6k	33.5k	28.0k	22.6k	17.7k	13.7k	10.4k	8.0k	6.2k	4.9k	3.9k	3.2k	2.6k	2.1k	1.8k	1.5k	1.2k	cd
100%	98%	92%	83%	73%	61%	49%	38%	30%	23%	17%	13%	11%	8%	7%	6%	5%	4%	3%	3%	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
46.2k	45.4k	42.8k	38.8k	33.9k	28.5k	23.3k	18.5k	14.4k	11.1k	8.5k	6.6k	5.2k	4.1k	3.3k	2.7k	2.2k	1.8k	1.5k	1.3k	cd
100%	98%	93%	84%	73%	62%	50%	40%	31%	24%	18%	14%	11%	9%	7%	6%	5%	4%	3%	3%	of 0°val

Photometric Test Report

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

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	381.4 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

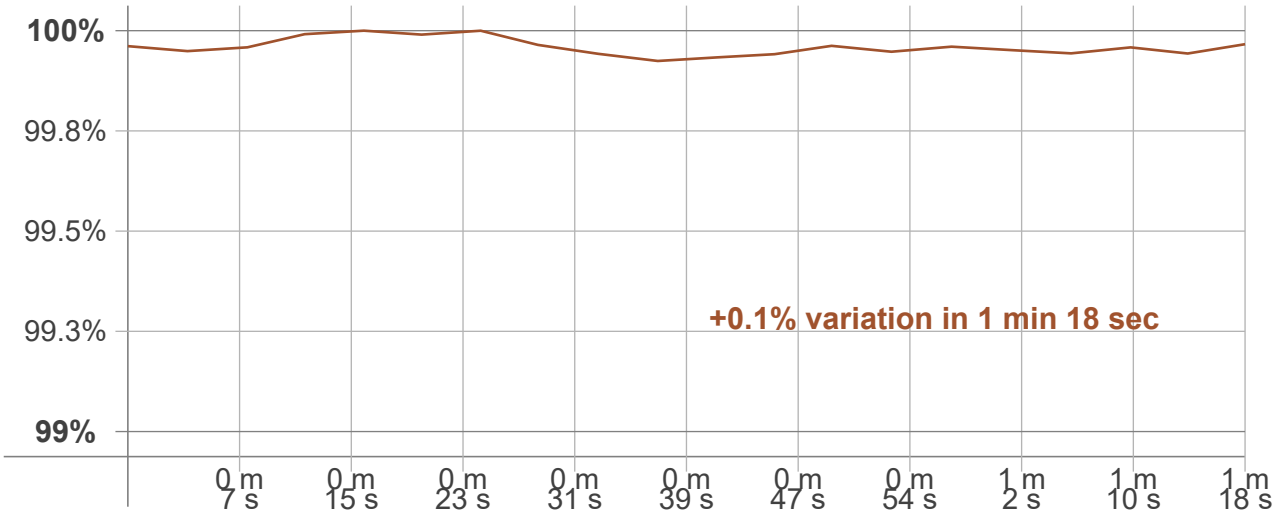
Efficiency

Radiated power efficiency	28.94
Lumen efficiency	96.63 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	12.46 lm
Warmup variation	-0.0756%	Output change	-2.172 lm
		Output end	12.46 lm

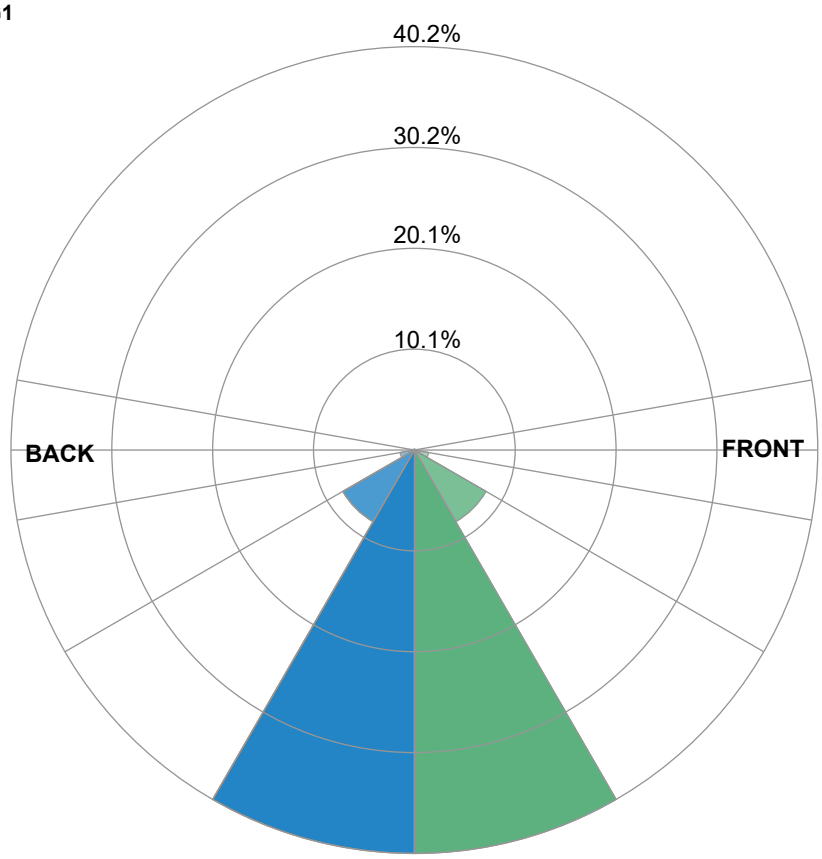
Stabilization Curve



Photometric Test Report

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

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

Forward Light			
Low (0-30°)	5010	lm	40.2%
Medium (30-60°)	1030	lm	8.25%
High (60-80°)	179	lm	1.44%
Very High (80-90°)	13.0	lm	0.104%
Back Light			
Low (0-30°)	5010	lm	40.2%
Medium (30-60°)	1030	lm	8.25%
High (60-80°)	179	lm	1.44%
Very High (80-90°)	13.0	lm	0.104%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	12.46	lm	100%

BUG RATING B5 U0 G1