Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-60-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.May.25-8873-VO
Measurement date	2026-05-25

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	2.00°
Input Power	129 W

Electrical Data

Input Power	129 W
Input Voltage	381.6 V DC
Input Current	0.34 A
Power Factor	1.00

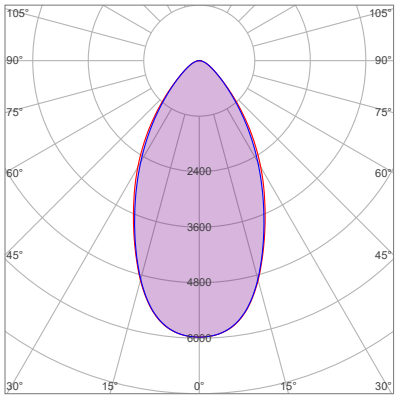
Tested Light Source

Product family	FL200-G2
Luminaire configuration	FL200-G2-XXX-RGBW3083-OM-60-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

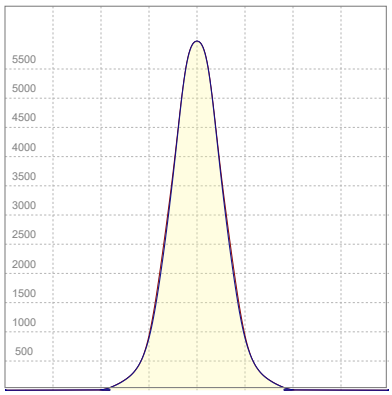
Output – Total Lumen	6068 - 0.3715% / 99.63%
Efficiency	47.05 lm/W
Peak Intensity	5977
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	55.2°
Beam Angle (FWHM) | C90/270	53.6°
Field Angle (10%) | C0/180	100.6°Unit: 0-100% of peak intensity
Optical Power	25716 mW
Peak Wavelength	453 nm
Dominant Wavelength	540 nm

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

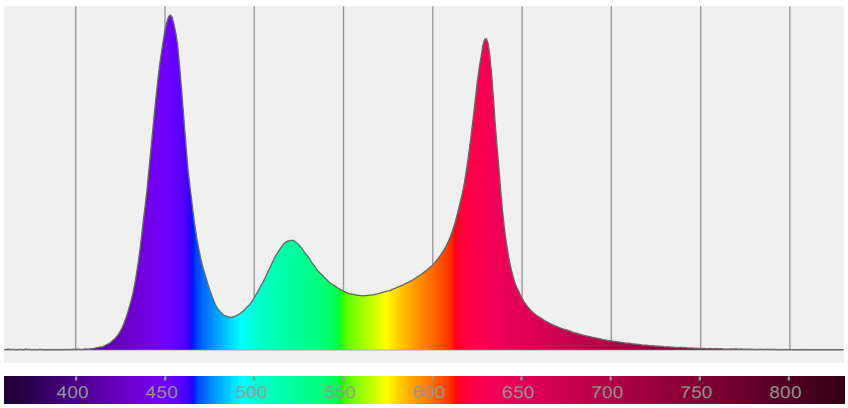


C0 - C180 η = 100%
C90 - C270

Linear distribution Diagram



Spectral Distribution



Color Temperature

NaN K

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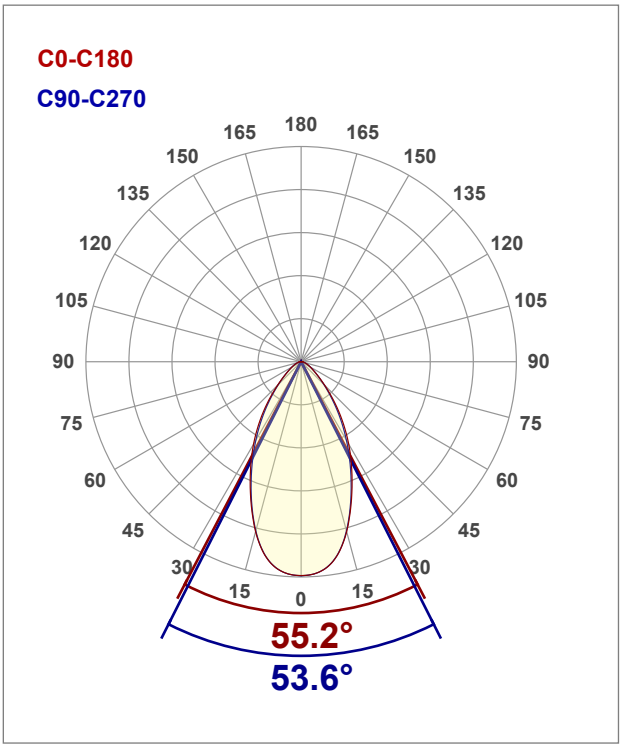
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	6068 lm
Lumen Up% / Down%	0.3715% / 99.63%
Peak Intensity	5977 cd
Beam Angle (50%-FWHM)	53.9°

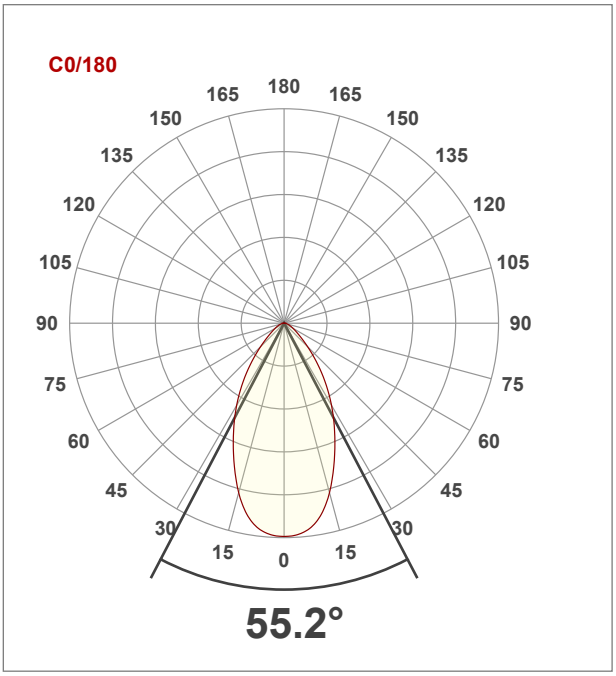
EU Ecodesign parameters

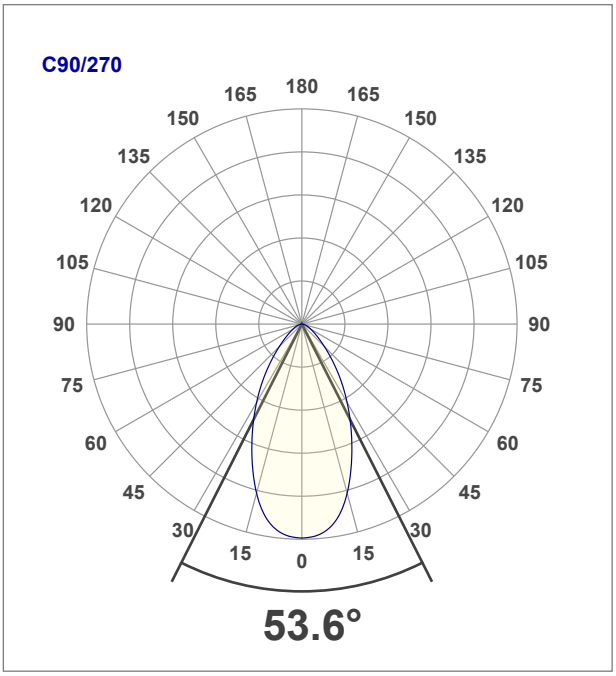
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	5020 lm
Ecodesign Energy Class	G

Intensity Ratio

In 120° cone	93.94%
In 90° cone	82.72%

Angular Distribution





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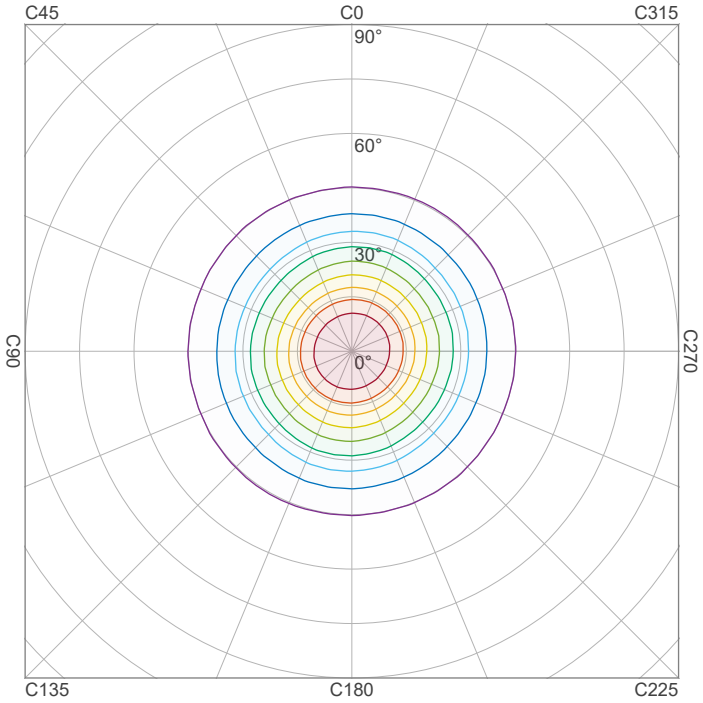
FL200-G2-XXX-RGBW3083-OM-60-INF-XXXXX-X (ALL ON)

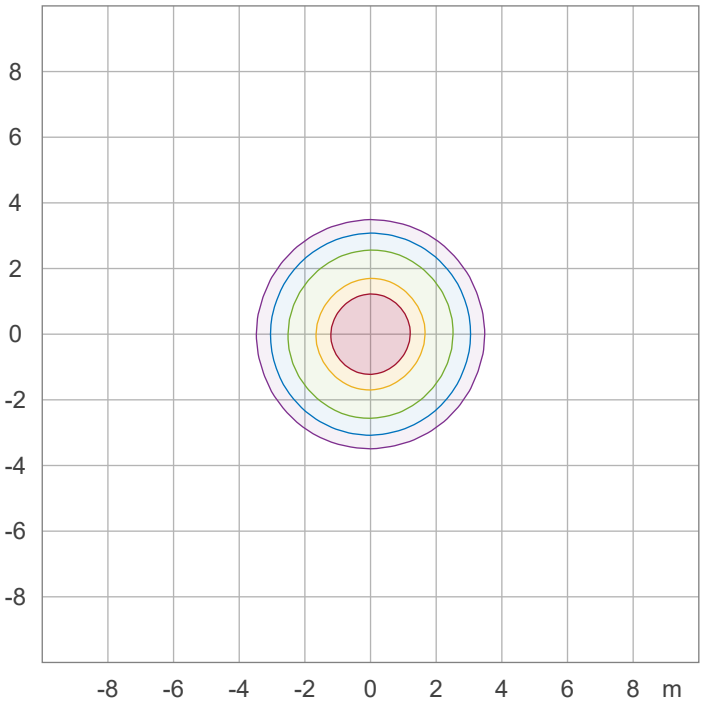
Iso-intensity Diagram (Iso-candela)



90 %	5375.6 cd
80 %	4778.4 cd
70 %	4181.1 cd
60 %	3583.8 cd
50 %	2986.5 cd
40 %	2389.2 cd
30 %	1791.9 cd
20 %	1194.6 cd
10 %	597.3 cd

Peak intensity: 5972.9 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	332 lx
30.0 %	199 lx
10.0 %	66.3 lx
5.0 %	33.2 lx
3.0 %	19.9 lx

Peak illuminance: 663 lx
Mounting height: 3 m
Number of c-planes: 36

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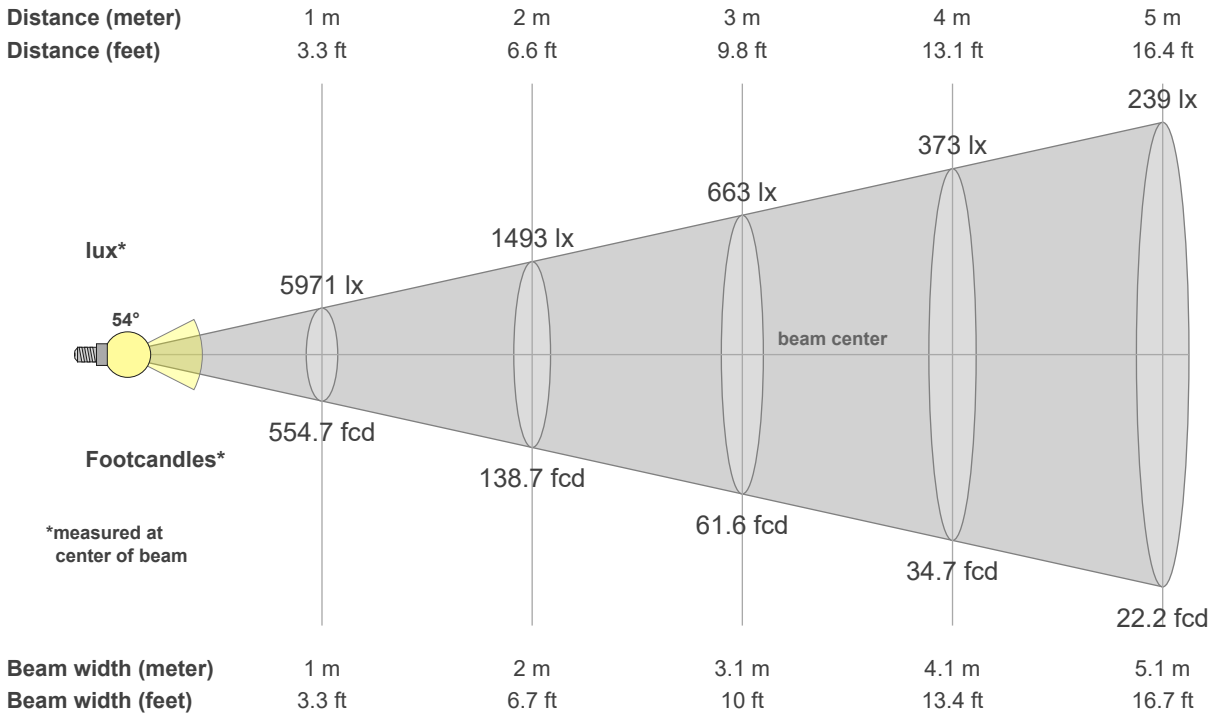
Beam details



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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
5971	1493	663	373	239	166	122	93	74	60	49	41	35	30	27	23	21	18	17	15	lux
554.7	138.7	61.6	34.7	22.2	15.4	11.3	8.7	6.8	5.5	4.6	3.9	3.3	2.8	2.5	2.2	1.9	1.7	1.5	1.4	fc

Intensities in 0° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	γ
5971	5894	5558	4915	4110	3348	2658	2001	1411	934	613	413	293	212	150	100	57	25	5	4	cd
100%	99%	93%	82%	69%	56%	45%	34%	24%	16%	10%	7%	5%	4%	3%	2%	1%	0%	0%	0%	of 0°val

Intensities in 90° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	γ
5971	5890	5549	4889	4063	3260	2530	1879	1321	894	605	417	293	210	147	97	56	24	5	5	cd
100%	99%	93%	82%	68%	55%	42%	31%	22%	15%	10%	7%	5%	4%	2%	2%	1%	0%	0%	0%	of 0°val

Intensities in 180° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	γ
5971	5894	5558	4915	4110	3348	2658	2001	1411	934	613	413	293	212	150	100	57	25	5	4	cd
100%	99%	93%	82%	69%	56%	45%	34%	24%	16%	10%	7%	5%	4%	3%	2%	1%	0%	0%	0%	of 0°val

Intensities in 270° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	γ
5971	5890	5549	4889	4063	3260	2530	1879	1321	894	605	417	293	210	147	97	56	24	5	5	cd
100%	99%	93%	82%	68%	55%	42%	31%	22%	15%	10%	7%	5%	4%	2%	2%	1%	0%	0%	0%	of 0°val

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FL200-G2-XXX-RGBW3083-OM-60-INF-XXXXX-X (ALL ON)

Power details

Input power	
Frequency of input power	0.0 Hz
Power feed to light source	129 W
RMS Input voltage feed V,RMS	381.6 V
RMS Input current feed I,RMS	0.34 A
Volt-Amp or apparent power = V,RMS*I,RMS	129.0 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

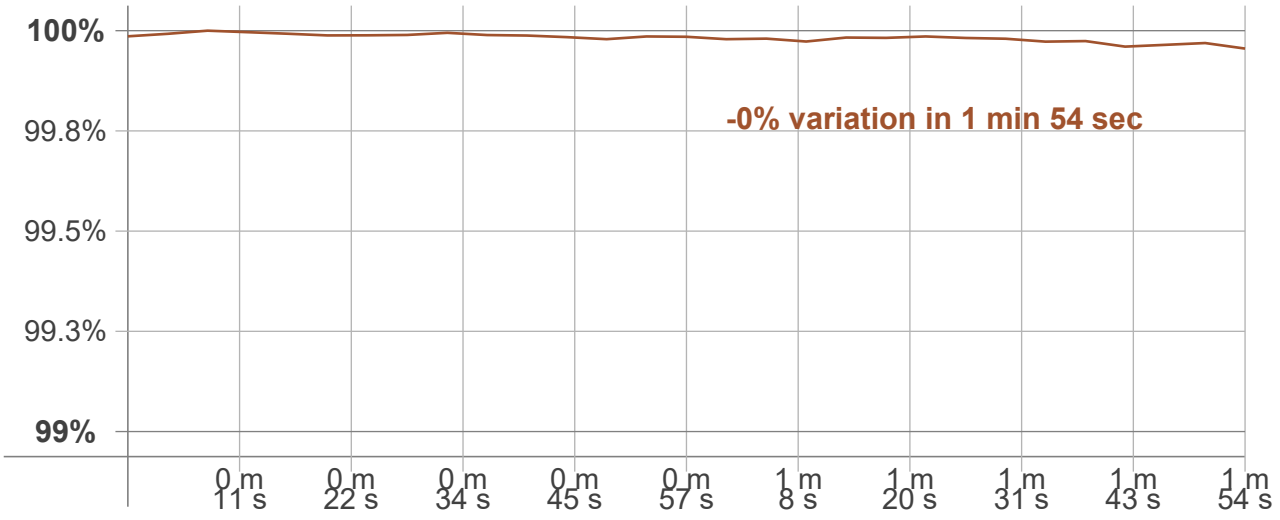
Efficiency

Radiated power efficiency	19.94
Lumen efficiency	47.05 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	6070 lm
Warmup variation	-0.0419%	Output change	-1.4657 lm
		Output end	6068 lm

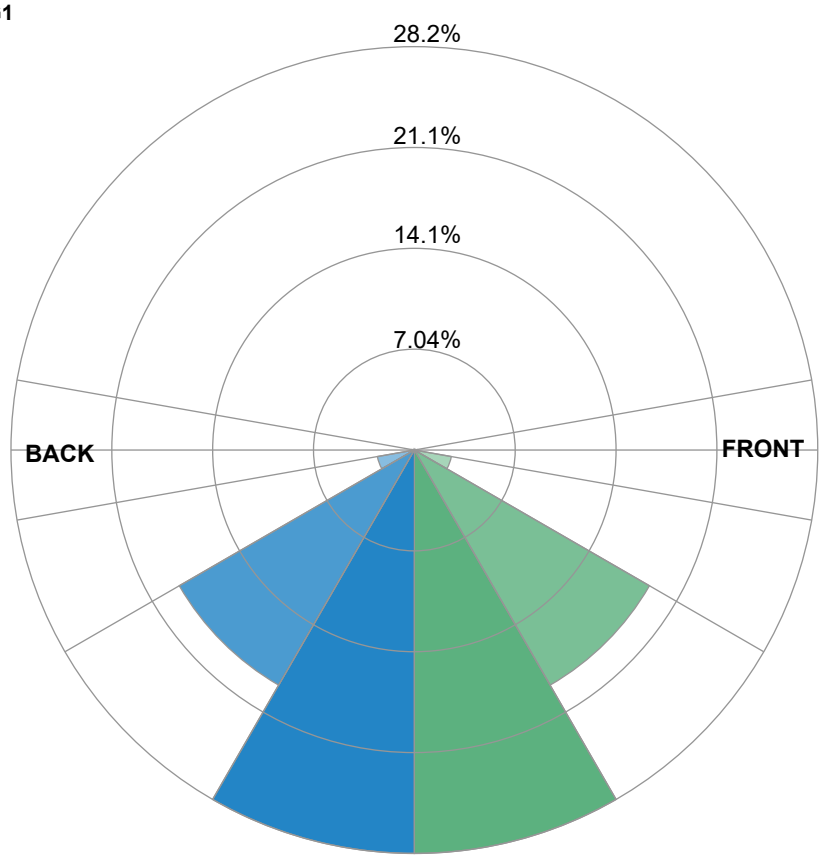
Stabilization Curve



Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-60-INF-XXXXX-X (ALL ON)

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

Forward Light			
Low (0-30°)	1710	lm	28.2%
Medium (30-60°)	1150	lm	19.0%
High (60-80°)	159	lm	2.62%
Very High (80-90°)	14.6	lm	0.241%
Back Light			
Low (0-30°)	1710	lm	28.2%
Medium (30-60°)	1150	lm	19.0%
High (60-80°)	159	lm	2.62%
Very High (80-90°)	14.6	lm	0.241%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	6068	lm	100%

BUG RATING B3 U0 G1