Photometric Test Report

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

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.25-8850-VO
Measurement date	2026-05-25

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	2.00°
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

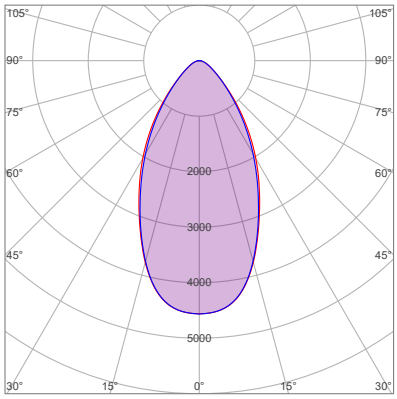
Tested Light Source

Product family	FL200-G2
Luminaire configuration	FL200-G2-XXX-RGBW3083-OM-60-INF-XXXXX-X (G)
Manufacturer	GVA Lighting, Inc.
Size (width x length x height)	106 mm 0 mm x 430 mm

Main Light Measurement Results

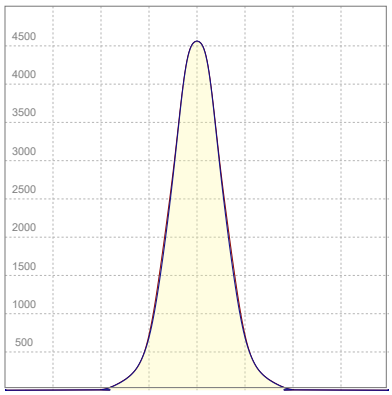
Output – Total Lumen	4660 - 0.4227% / 99.58%
Efficiency	36.15 lm/W
Peak Intensity	4562
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	55.3°
Beam Angle (FWHM) | C90/270	53.7°
Field Angle (10%) | C0/180	101.0°Unit: 0-100% of peak intensity
Optical Power	9682 mW
Peak Wavelength	521 nm
Dominant Wavelength	527 nm

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

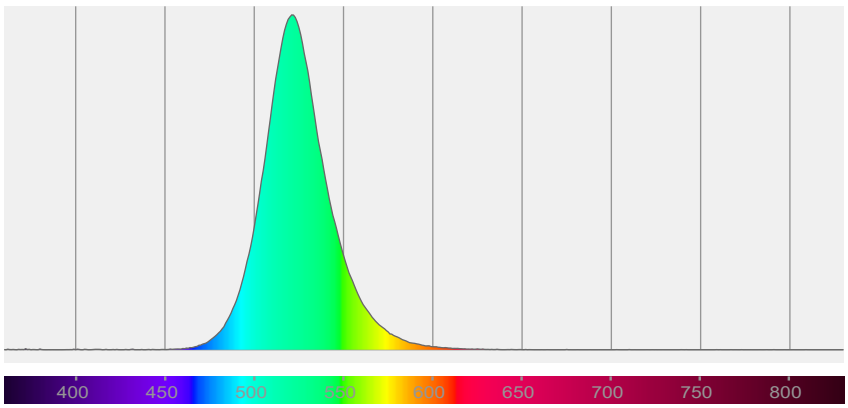


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

NaN K

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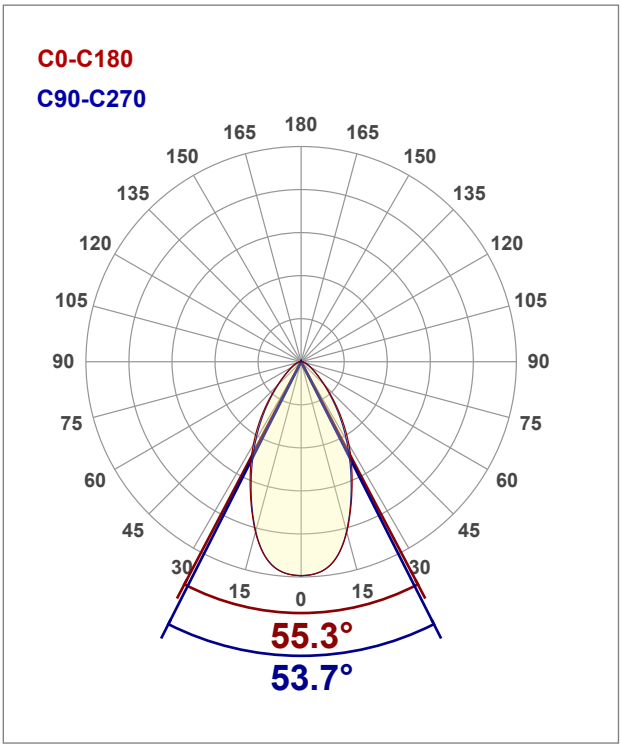
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	4660 lm
Lumen Up% / Down%	0.4227% / 99.58%
Peak Intensity	4562 cd
Beam Angle (50%-FWHM)	54.0°

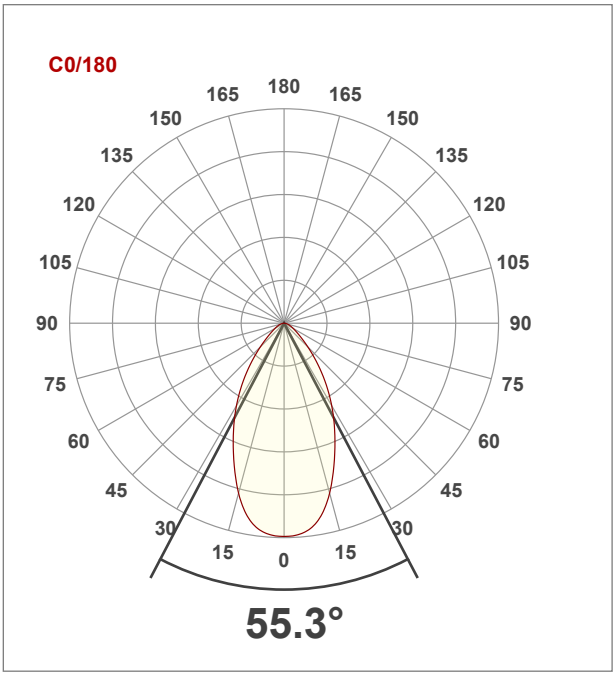
EU Ecodesign parameters

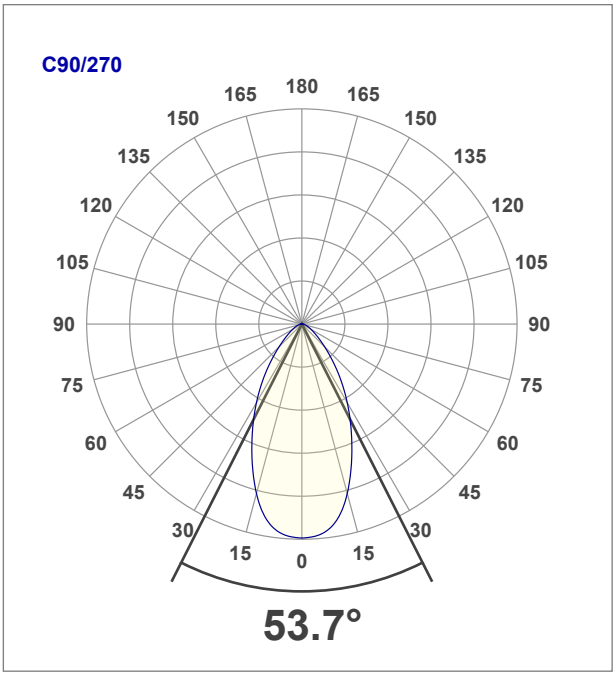
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	3844 lm
Ecodesign Energy Class	G

Intensity Ratio

In 120° cone	93.78%
In 90° cone	82.49%

Angular Distribution





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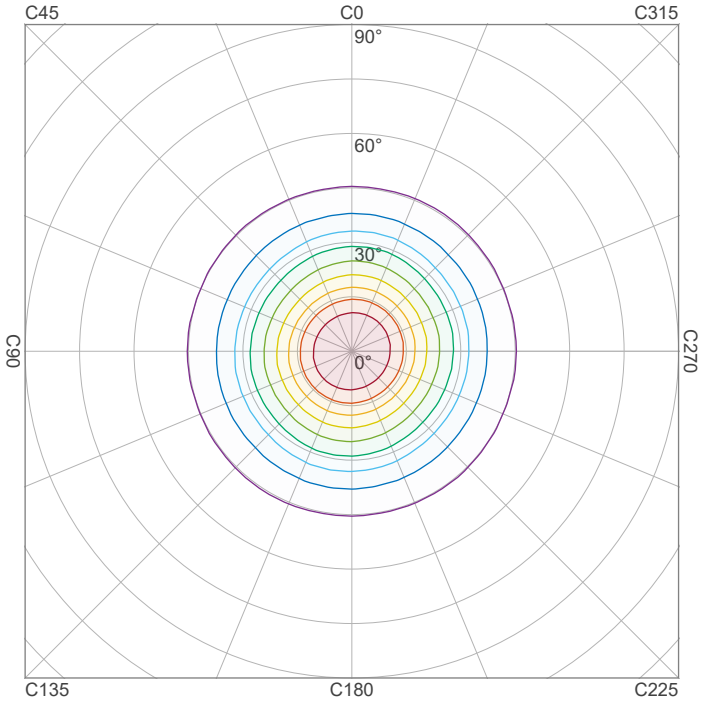
Iso-intensity Diagram (Iso-candela)

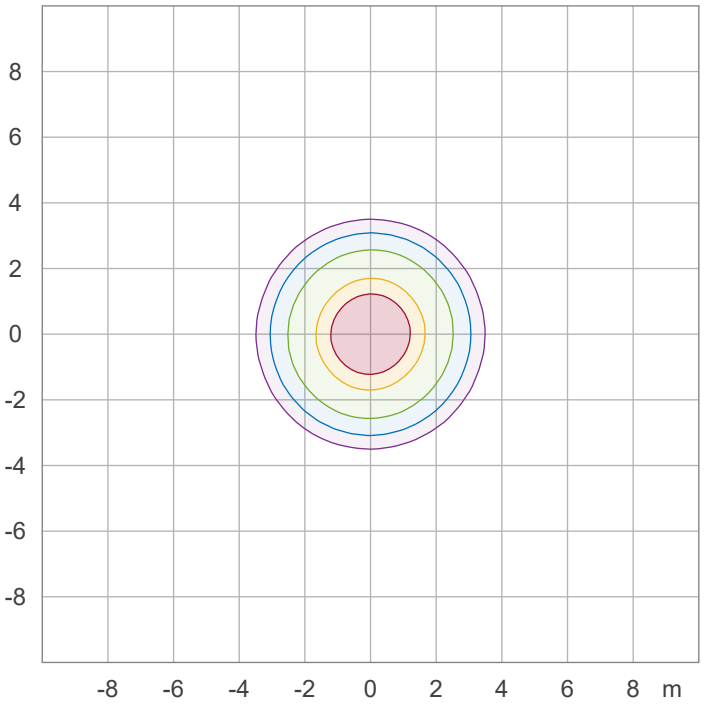


90 %	4103.2 cd
80 %	3647.3 cd
70 %	3191.4 cd
60 %	2735.4 cd
50 %	2279.5 cd
40 %	1823.6 cd
30 %	1367.7 cd
20 %	911.8 cd
10 %	455.9 cd

Peak intensity: 4559.1 cd

Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	253 lx
30.0 %	152 lx
10.0 %	50.6 lx
5.0 %	25.3 lx
3.0 %	15.2 lx

Peak illuminance: 506 lx

Mounting height: 3 m

Number of c-planes: 36

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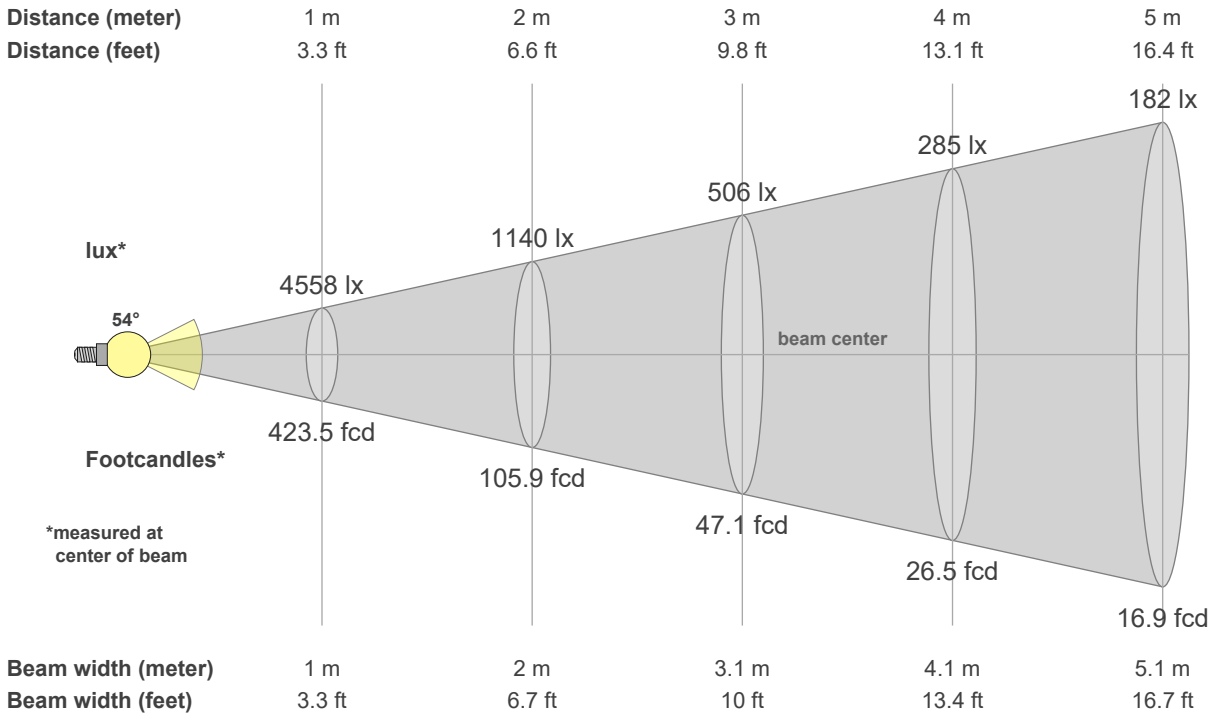
Beam details



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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
4558	1140	506	285	182	127	93	71	56	46	38	32	27	23	20	18	16	14	13	11	lux
423.5	105.9	47.1	26.5	16.9	11.8	8.6	6.6	5.2	4.2	3.5	2.9	2.5	2.2	1.9	1.7	1.5	1.3	1.2	1.1	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
4558	4505	4258	3760	3140	2561	2036	1537	1085	721	474	320	228	165	118	78	46	20	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
4558	4502	4250	3740	3103	2489	1938	1442	1016	690	469	323	228	164	115	77	44	19	4	4	cd
100%	99%	93%	82%	68%	55%	43%	32%	22%	15%	10%	7%	5%	4%	3%	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
4558	4505	4258	3760	3140	2561	2036	1537	1085	721	474	320	228	165	118	78	46	20	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
4558	4502	4250	3740	3103	2489	1938	1442	1016	690	469	323	228	164	115	77	44	19	4	4	cd
100%	99%	93%	82%	68%	55%	43%	32%	22%	15%	10%	7%	5%	4%	3%	2%	1%	0%	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	381.4 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

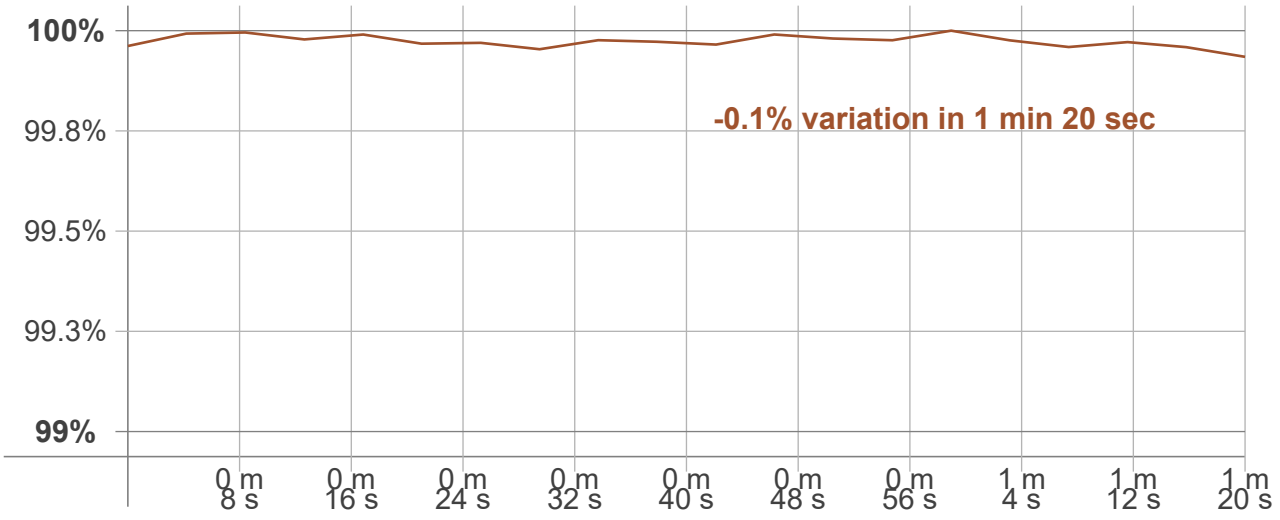
Efficiency

Radiated power efficiency	7.51
Lumen efficiency	36.15 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	4661 lm
Warmup variation	-0.0652%	Output change	-0.2119 lm
		Output end	4660 lm

Stabilization Curve



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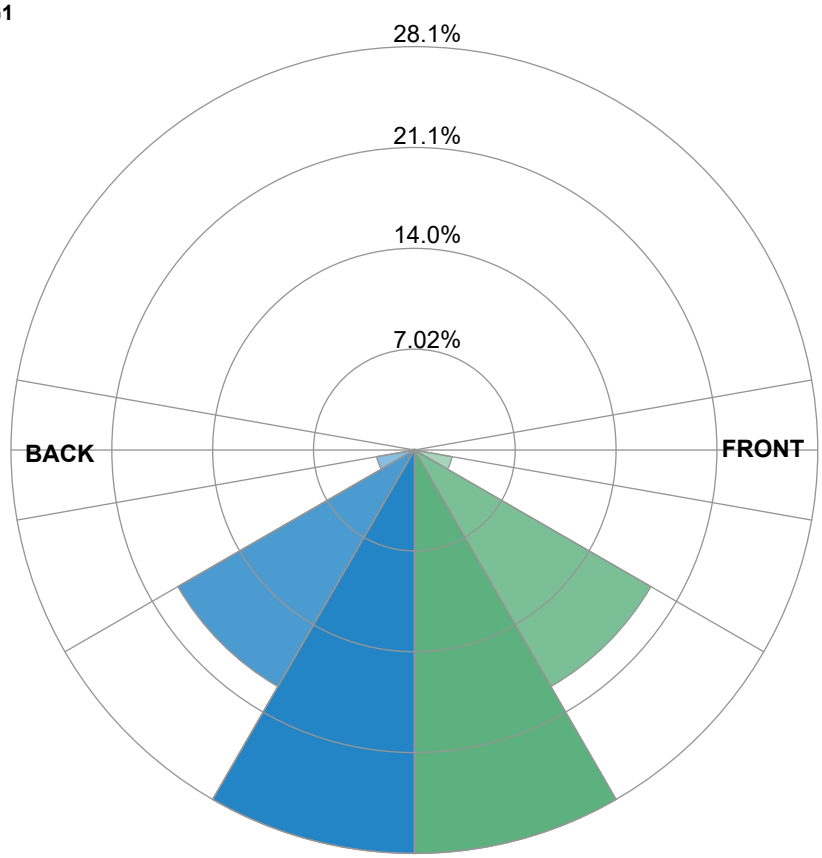
FL200-G2-XXX-RGBW3083-OM-60-INF-XXXXX-X (G)

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

Forward Light			
Low (0-30°)	1310	lm	28.1%
Medium (30-60°)	886	lm	19.0%
High (60-80°)	124	lm	2.66%
Very High (80-90°)	11.9	lm	0.255%
Back Light			
Low (0-30°)	1310	lm	28.1%
Medium (30-60°)	886	lm	19.0%
High (60-80°)	124	lm	2.66%
Very High (80-90°)	11.9	lm	0.255%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	4660	lm	100%

BUG RATING B3 U0 G1