Photometric Test Report

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

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.25-8848-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

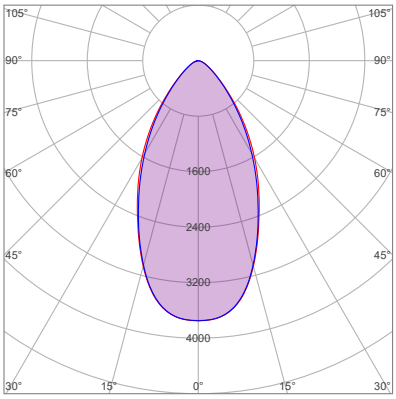
Tested Light Source

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

Main Light Measurement Results

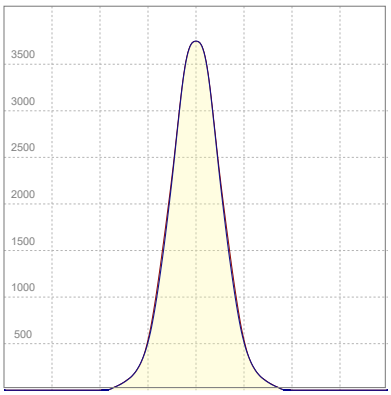
Output – Total Lumen	3603 - 0% / 100%
Efficiency	27.95 lm/W
Peak Intensity	3748
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	54.3°
Beam Angle (FWHM) | C90/270	52.7°
Field Angle (10%) | C0/180	97.9°Unit: 0-100% of peak intensity
Optical Power	18525 mW
Peak Wavelength	633 nm
Dominant Wavelength	622 nm

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

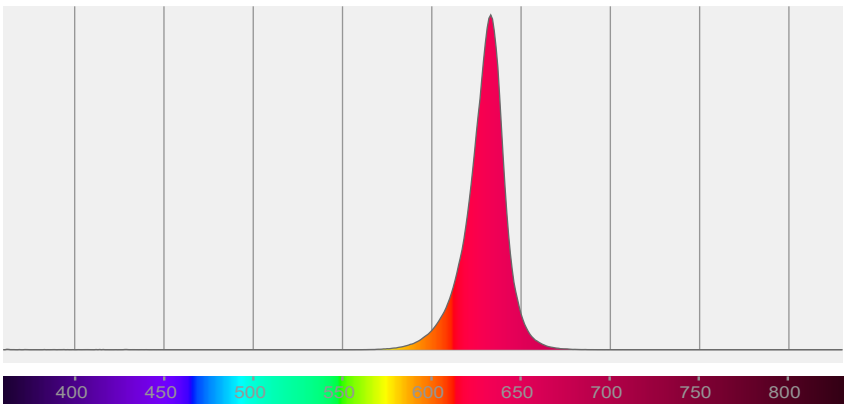


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

NaN K

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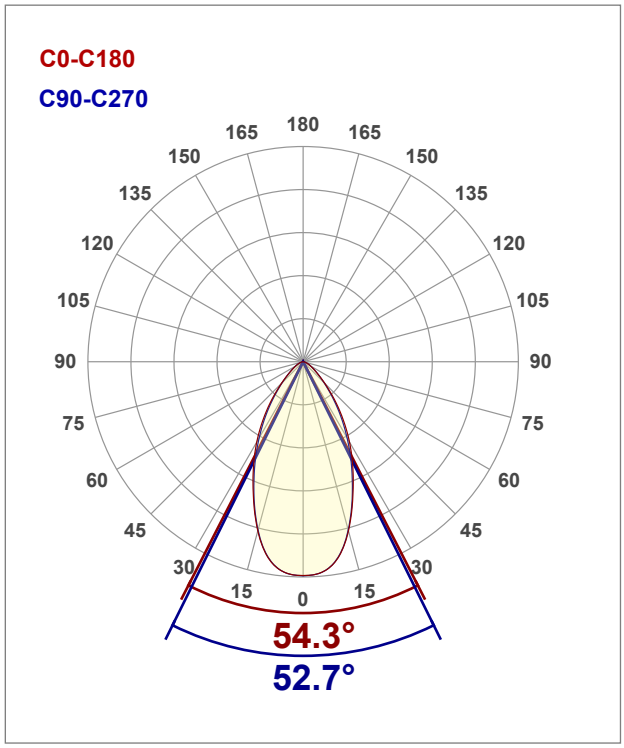
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	3603 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	3748 cd
Beam Angle (50%-FWHM)	53.0°

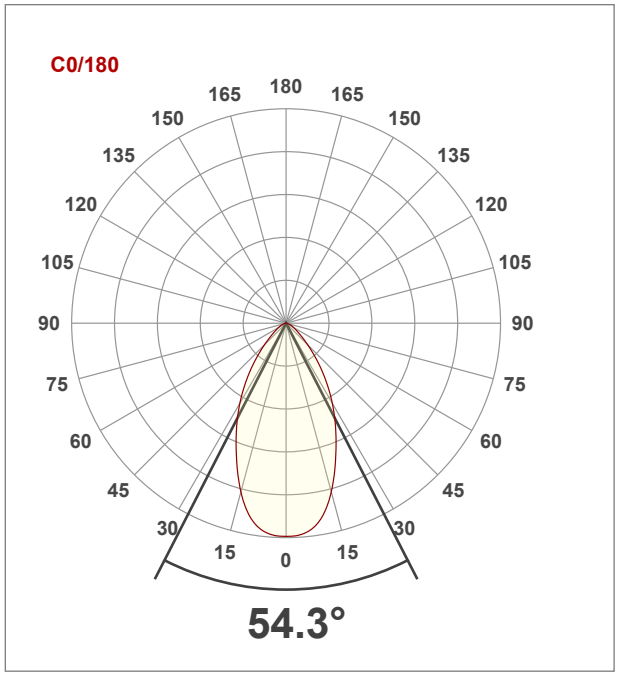
EU Ecodesign parameters

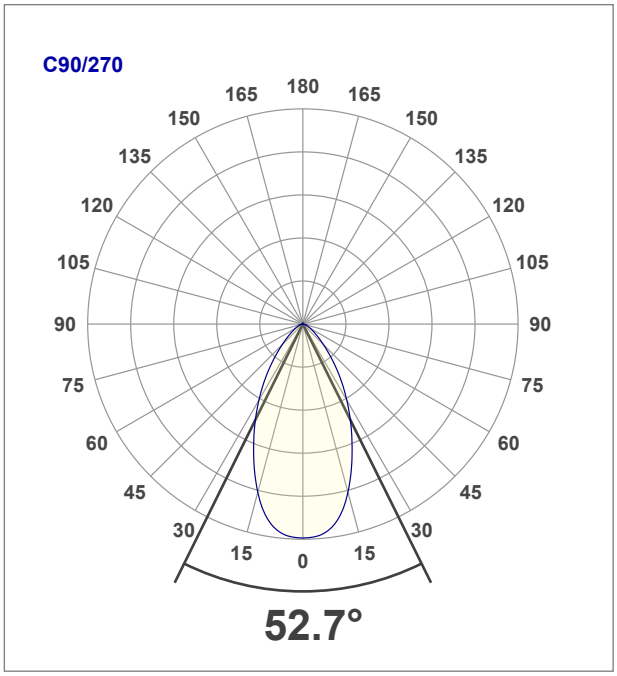
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	3077 lm
Ecodesign Energy Class	G

Intensity Ratio

In 120° cone	95.85%
In 90° cone	85.39%

Angular Distribution





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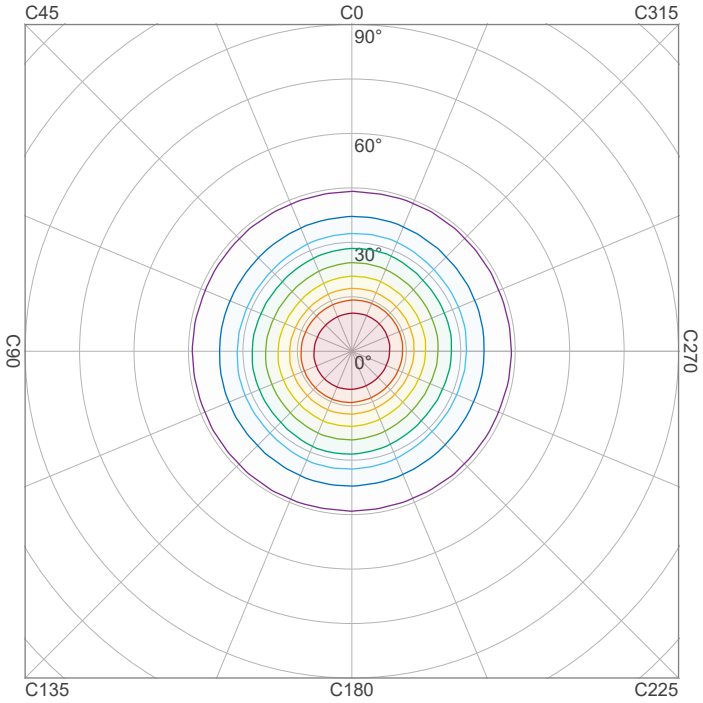
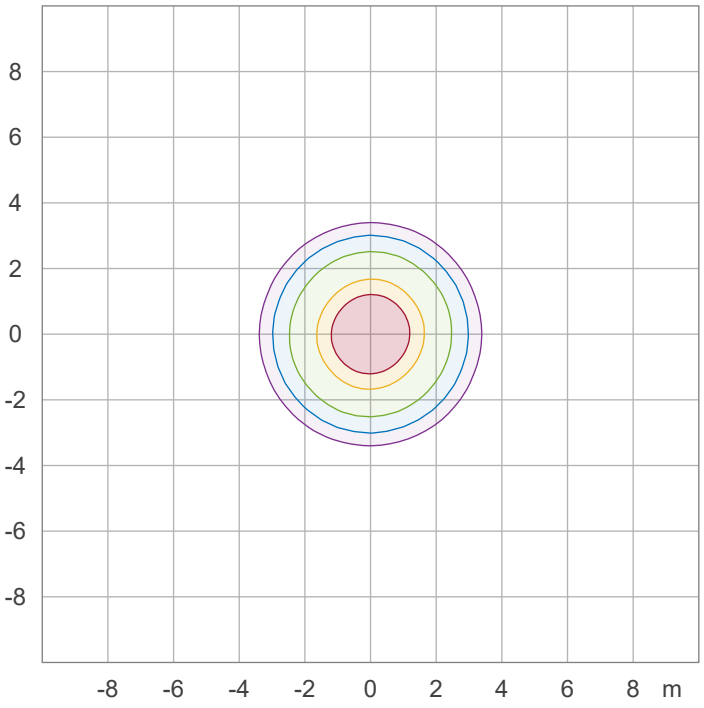
Iso-intensity Diagram (Iso-candela)



90 %	3371.3 cd
80 %	2996.7 cd
70 %	2622.1 cd
60 %	2247.5 cd
50 %	1872.9 cd
40 %	1498.3 cd
30 %	1123.8 cd
20 %	749.2 cd
10 %	374.6 cd

Peak intensity: 3745.8 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	208 lx
30.0 %	125 lx
10.0 %	41.6 lx
5.0 %	20.8 lx
3.0 %	12.5 lx

Peak illuminance: 416 lx
Mounting height: 3 m
Number of c-planes: 36

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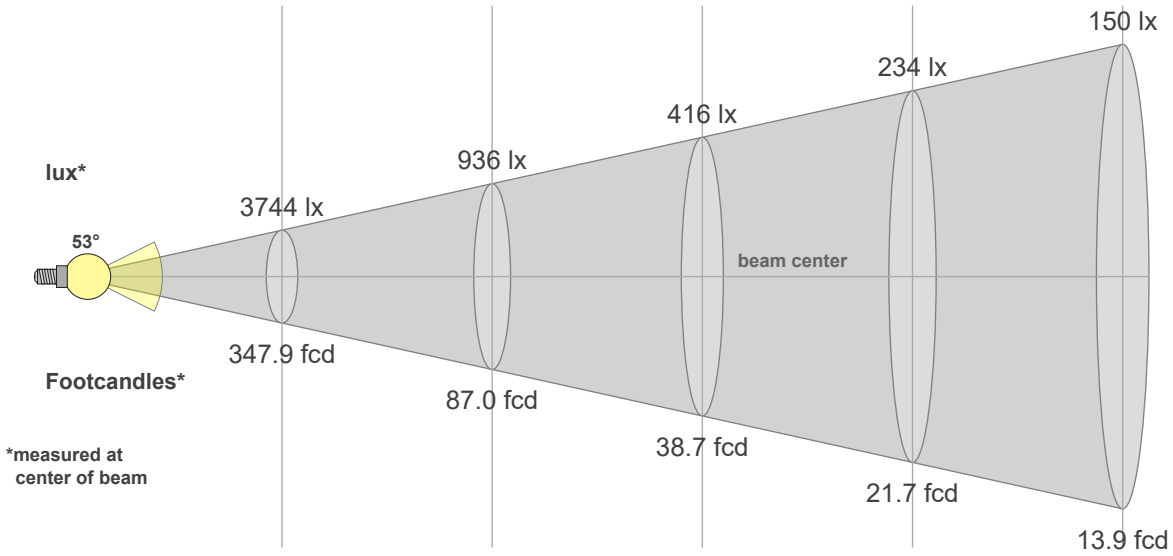
Beam details

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)	1 m	2 m	3 m	4 m	5 m
Beam width (feet)	3.3 ft	6.5 ft	9.8 ft	13.1 ft	16.4 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
3744	936	416	234	150	104	76	59	46	37	31	26	22	19	17	15	13	12	10	9	lux
347.9	87	38.7	21.7	13.9	9.7	7.1	5.4	4.3	3.5	2.9	2.4	2.1	1.8	1.5	1.4	1.2	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
3744	3741	3721	3678	3604	3493	3344	3164	2963	2754	2544	2345	2155	1974	1797	1624	1453	1286	1126	975	cd
100%	100%	99%	98%	96%	93%	89%	85%	79%	74%	68%	63%	58%	53%	48%	43%	39%	34%	30%	26%	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
3744	3741	3720	3675	3598	3484	3334	3150	2945	2732	2516	2304	2103	1908	1721	1540	1370	1208	1054	910	cd
100%	100%	99%	98%	96%	93%	89%	84%	79%	73%	67%	62%	56%	51%	46%	41%	37%	32%	28%	24%	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
3744	3741	3721	3678	3604	3493	3344	3164	2963	2754	2544	2345	2155	1974	1797	1624	1453	1286	1126	975	cd
100%	100%	99%	98%	96%	93%	89%	85%	79%	74%	68%	63%	58%	53%	48%	43%	39%	34%	30%	26%	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
3744	3741	3720	3675	3598	3484	3334	3150	2945	2732	2516	2304	2103	1908	1721	1540	1370	1208	1054	910	cd
100%	100%	99%	98%	96%	93%	89%	84%	79%	73%	67%	62%	56%	51%	46%	41%	37%	32%	28%	24%	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

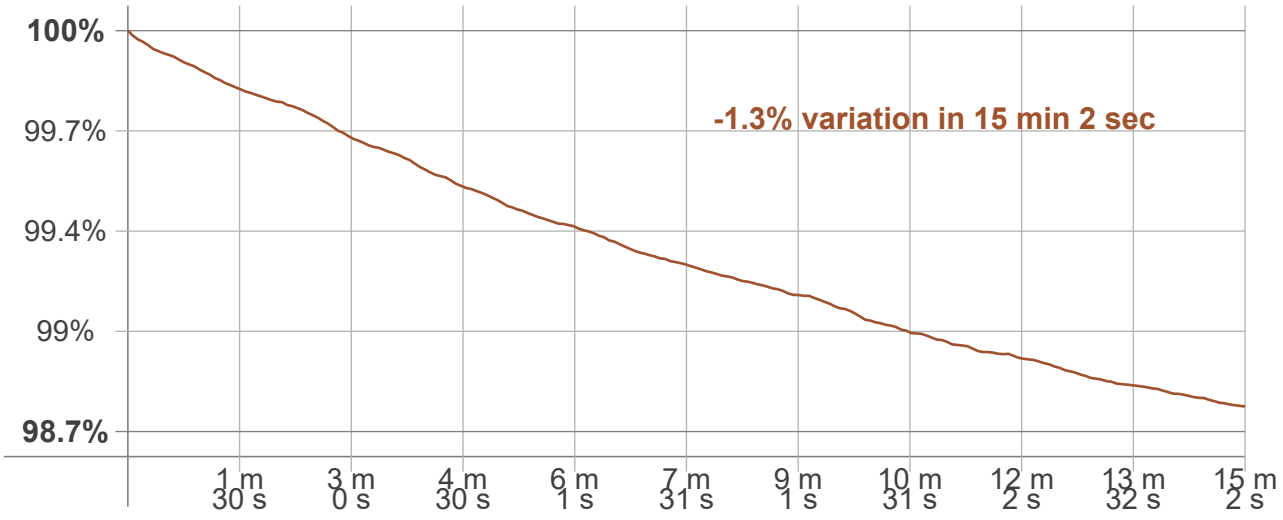
Efficiency

Radiated power efficiency	14.37
Lumen efficiency	27.95 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 2 sec	Output start	3648 lm
Warmup variation	-1.2746%	Output change	-44.387 lm
		Output end	3603 lm

Stabilization Curve



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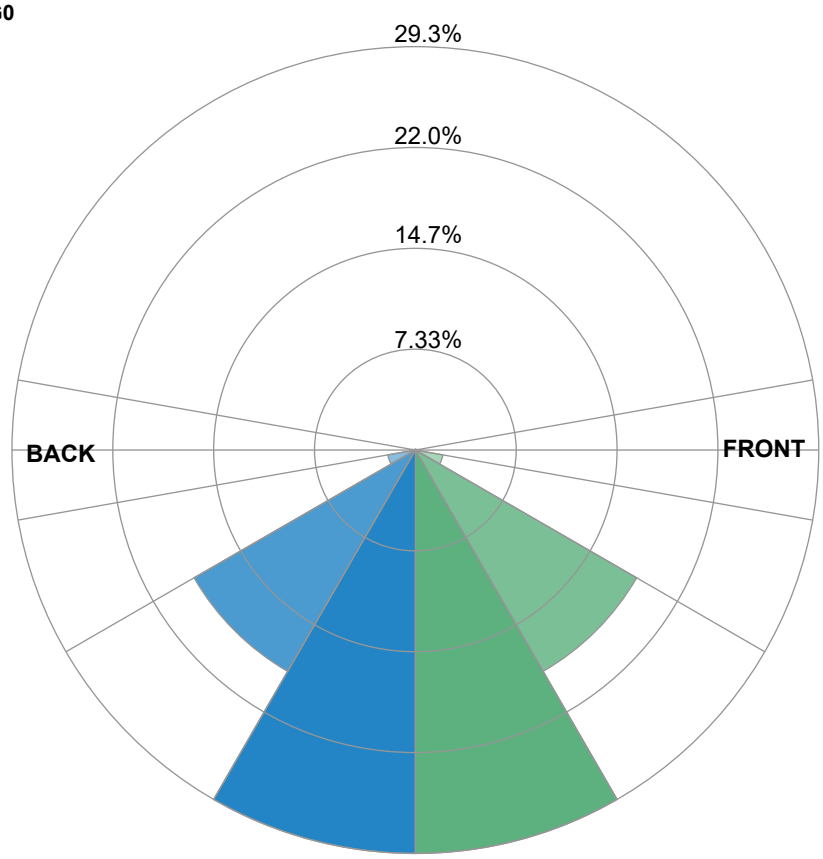
FL200-G2-XXX-RGBW3083-OM-60-INF-XXXXX-X (R)

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

Forward Light			
Low (0-30°)	1060	lm	29.3%
Medium (30-60°)	670	lm	18.6%
High (60-80°)	73.4	lm	2.04%
Very High (80-90°)	1.49	lm	0.0414%
Back Light			
Low (0-30°)	1060	lm	29.3%
Medium (30-60°)	670	lm	18.6%
High (60-80°)	73.4	lm	2.04%
Very High (80-90°)	1.49	lm	0.0414%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	3603	lm	100%

BUG RATING B3 U0 G0