Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-30L-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.02-9295-VO
Measurement date	2026-06-02

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	1.00°
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

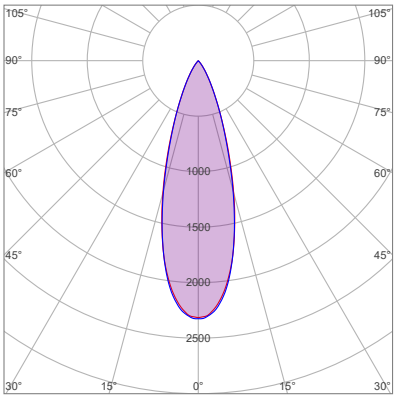
Tested Light Source

Product family	FL200-G2
Luminaire configuration	FL200-G2-XXX-RGBW3083-OM-30L-INF-XXXXX-X (B)
Manufacturer	GVA Lighting, Inc.
Size (width x length x height)	106 mm 0 mm x 430 mm

Main Light Measurement Results

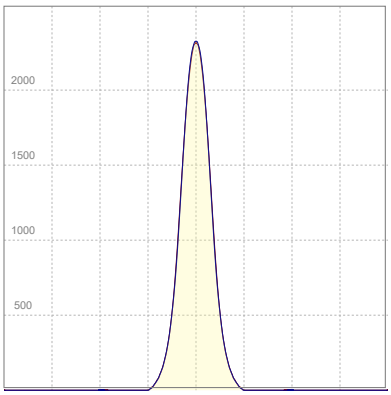
Output – Total Lumen	758.6 - 0% / 100%
Efficiency	5.882 lm/W
Peak Intensity	2326
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	31.3°
Beam Angle (FWHM) | C90/270	30.8°
Field Angle (10%) | C0/180	56.8°Unit: 0-100% of peak intensity
Optical Power	17849 mW
Peak Wavelength	454 nm
Dominant Wavelength	458 nm

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

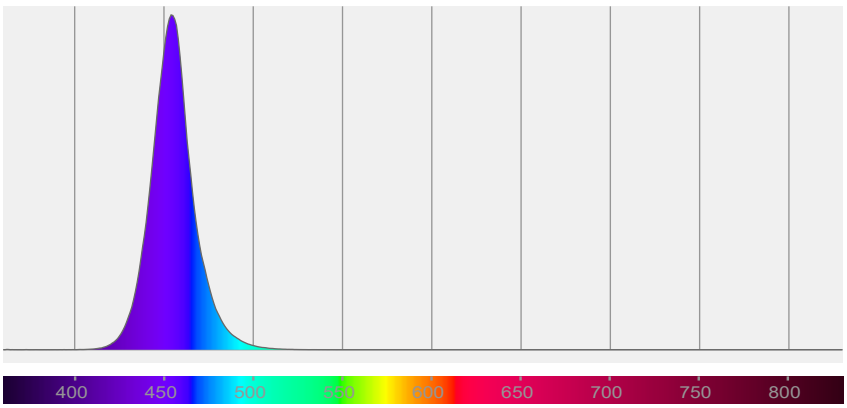


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

NaN K

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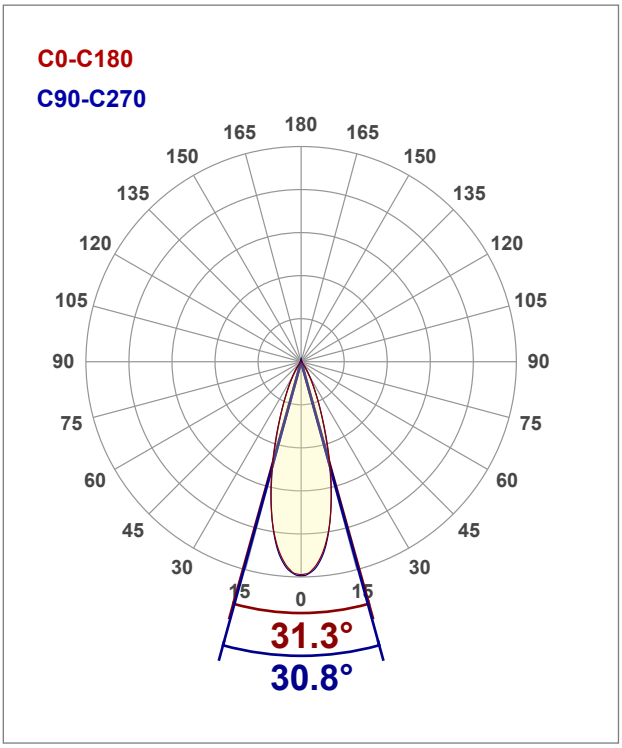
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	758.6 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	2326 cd
Beam Angle (50%-FWHM)	31.0°

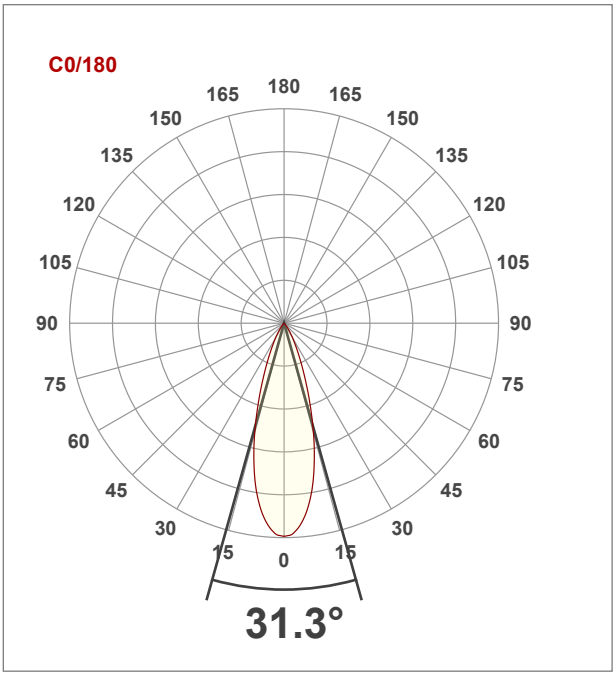
EU Ecodesign parameters

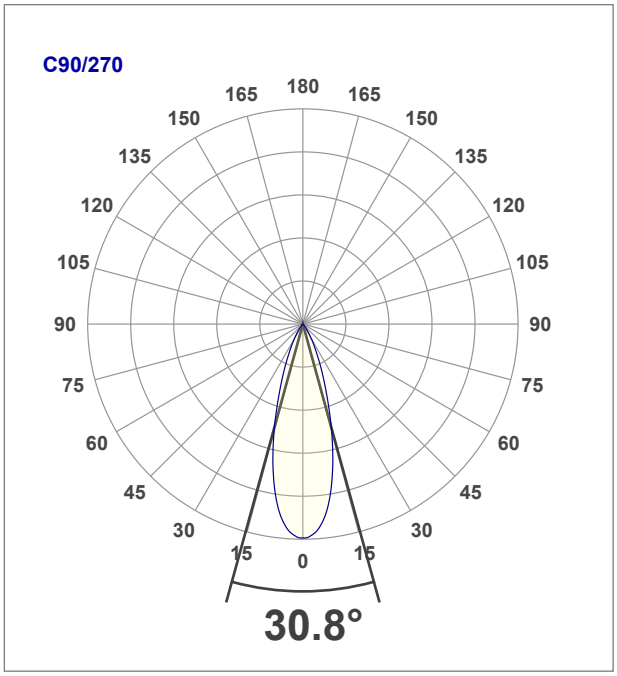
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	758.6 lm
Ecodesign Energy Class	G

Intensity Ratio

In 120° cone	100%
In 90° cone	100%

Angular Distribution





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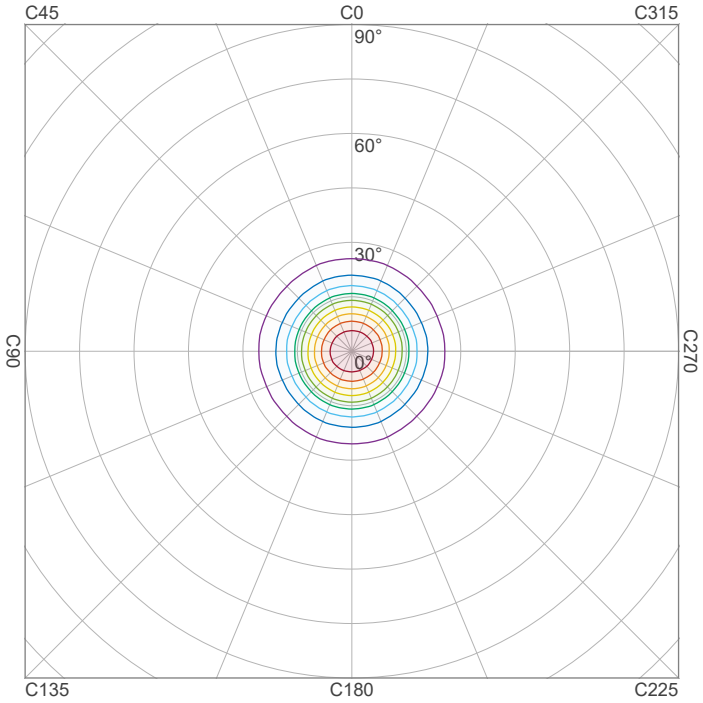
Iso-intensity Diagram (Iso-candela)

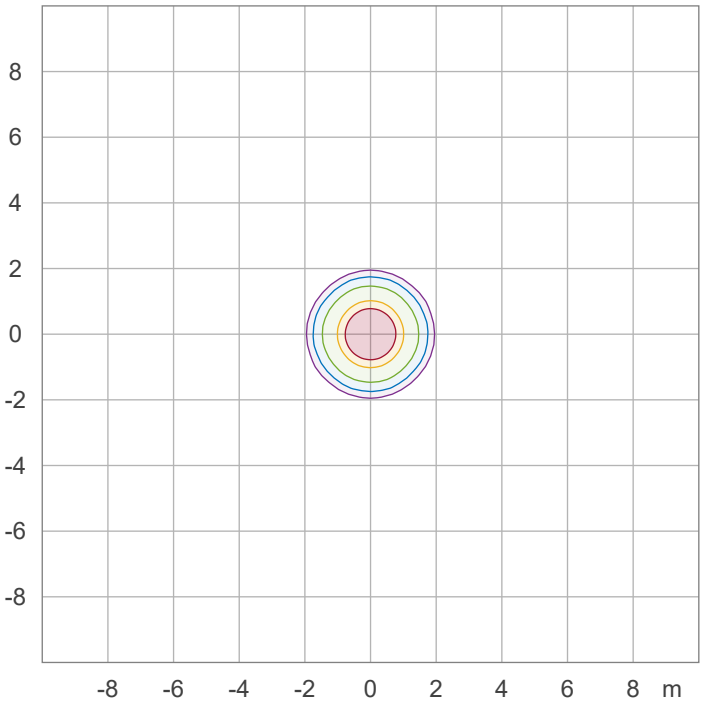


90 %	2093.6 cd
80 %	1861.0 cd
70 %	1628.4 cd
60 %	1395.7 cd
50 %	1163.1 cd
40 %	930.5 cd
30 %	697.9 cd
20 %	465.2 cd
10 %	232.6 cd

Peak intensity: 2326.2 cd

Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	129 lx
30.0 %	77.5 lx
10.0 %	25.8 lx
5.0 %	12.9 lx
3.0 %	7.75 lx

Peak illuminance: 258 lx

Mounting height: 3 m

Number of c-planes: 36

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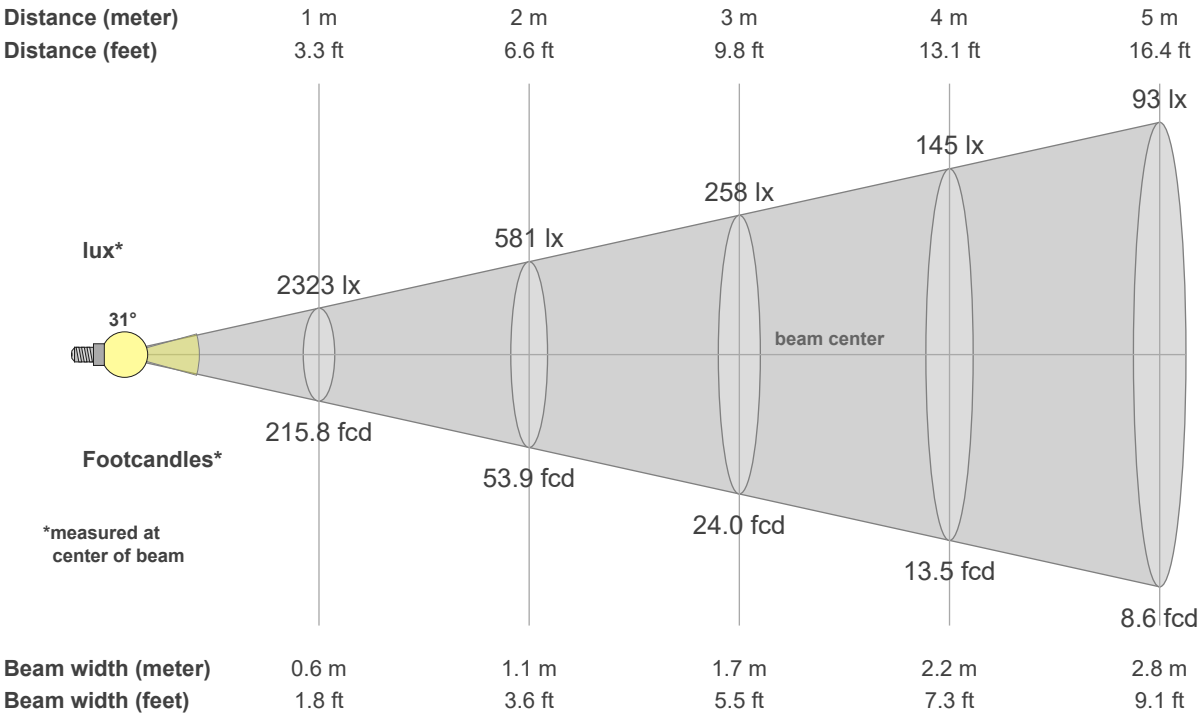
Beam details



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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
2323	581	258	145	93	65	47	36	29	23	19	16	14	12	10	9	8	7	6	6	lux
215.8	53.9	24	13.5	8.6	6	4.4	3.4	2.7	2.2	1.8	1.5	1.3	1.1	1	0.8	0.7	0.7	0.6	0.5	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
2323	2298	2227	2116	1966	1786	1571	1349	1117	900	708	549	422	322	243	185	137	103	73	49	cd
100%	99%	96%	91%	85%	77%	68%	58%	48%	39%	30%	24%	18%	14%	10%	8%	6%	4%	3%	2%	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
2323	2305	2248	2139	1985	1787	1564	1326	1093	875	693	547	423	323	247	186	139	101	70	48	cd
100%	99%	97%	92%	85%	77%	67%	57%	47%	38%	30%	24%	18%	14%	11%	8%	6%	4%	3%	2%	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
2323	2298	2227	2116	1966	1786	1571	1349	1117	900	708	549	422	322	243	185	137	103	73	49	cd
100%	99%	96%	91%	85%	77%	68%	58%	48%	39%	30%	24%	18%	14%	10%	8%	6%	4%	3%	2%	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
2323	2305	2248	2139	1985	1787	1564	1326	1093	875	693	547	423	323	247	186	139	101	70	48	cd
100%	99%	97%	92%	85%	77%	67%	57%	47%	38%	30%	24%	18%	14%	11%	8%	6%	4%	3%	2%	of 0°val

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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

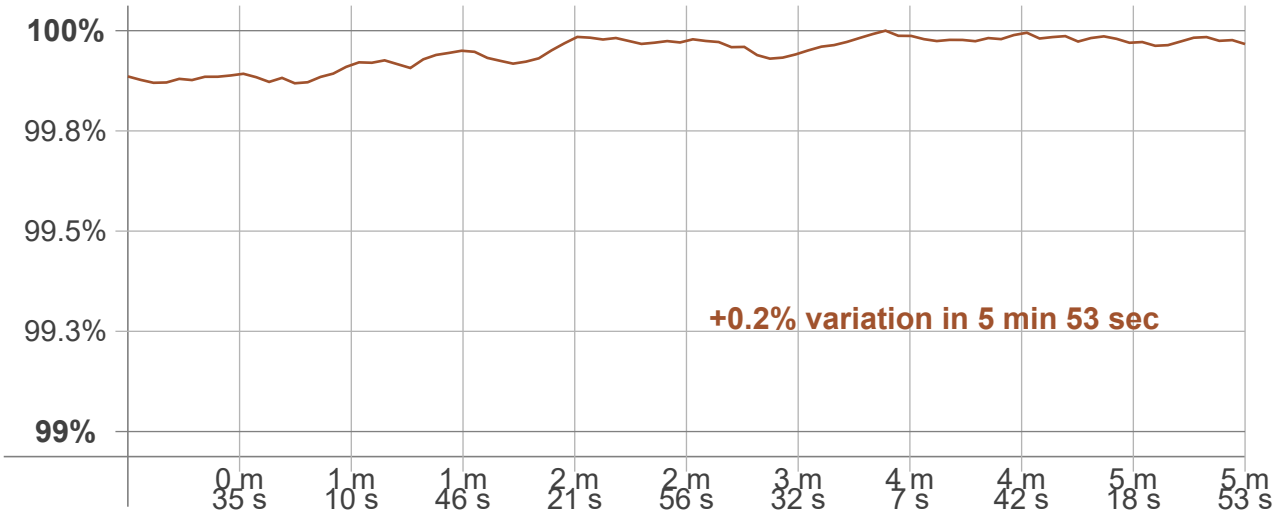
Efficiency

Radiated power efficiency	13.84
Lumen efficiency	5.882 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	757.9 lm
Warmup variation	0.2022%	Output change	0.7046 lm
		Output end	758.6 lm

Stabilization Curve



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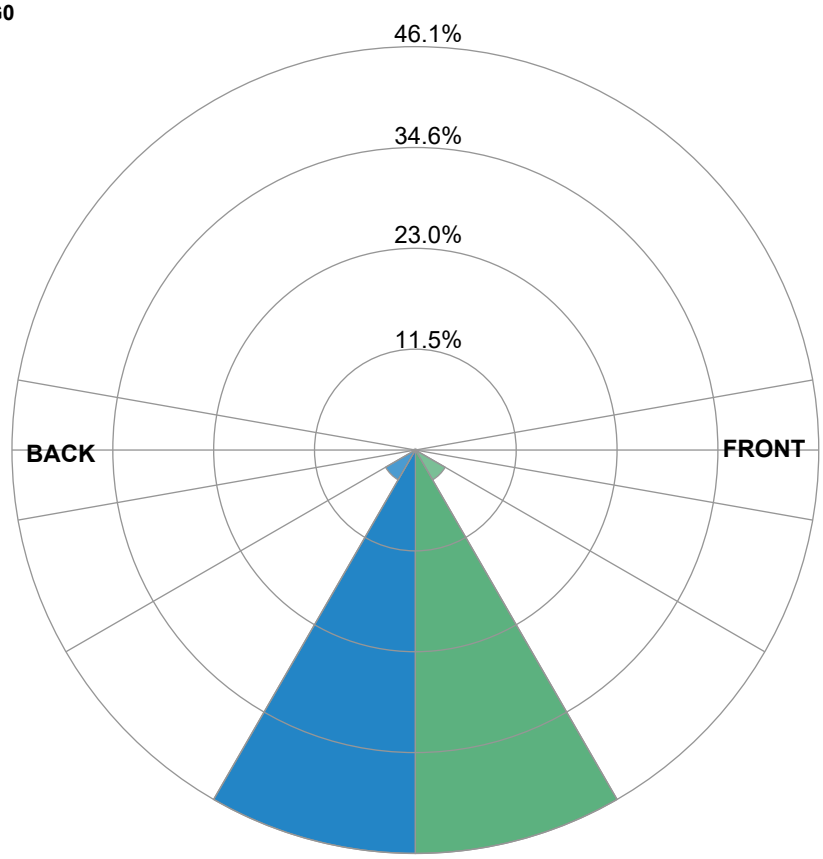
FL200-G2-XXX-RGBW3083-OM-30L-INF-XXXXX-X (B)

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

Forward Light			
Low (0-30°)	350	lm	46.1%
Medium (30-60°)	29.8	lm	3.93%
High (60-80°)	0	lm	0%
Very High (80-90°)	0	lm	0%
Back Light			
Low (0-30°)	350	lm	46.1%
Medium (30-60°)	29.8	lm	3.93%
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	758.6	lm	100%

BUG RATING B1 U0 G0