Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-80-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.27-8934-VO
Measurement date	2026-05-27

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	3.00°
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

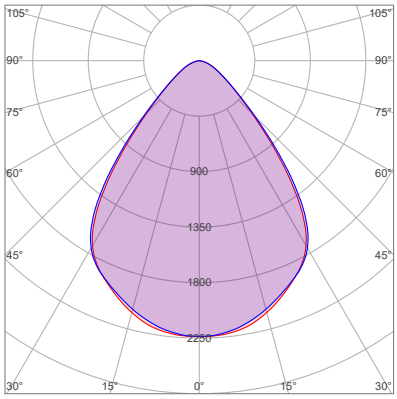
Tested Light Source

Product family	FL200-G2
Luminaire configuration	FL200-G2-XXX-RGBW3083-OM-80-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

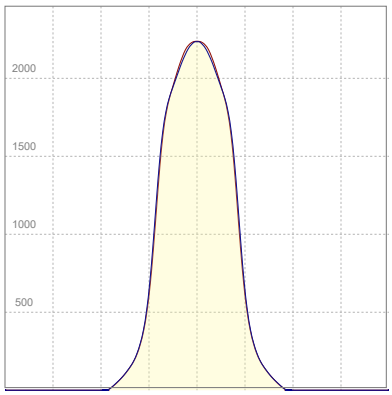
Output – Total Lumen	3495 - 0% / 100%
Efficiency	27.11 lm/W
Peak Intensity	2239
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	76.9°
Beam Angle (FWHM) | C90/270	78.3°
Field Angle (10%) | C0/180	113.5°Unit: 0-100% of peak intensity
Optical Power	18025 mW
Peak Wavelength	633 nm
Dominant Wavelength	622 nm

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

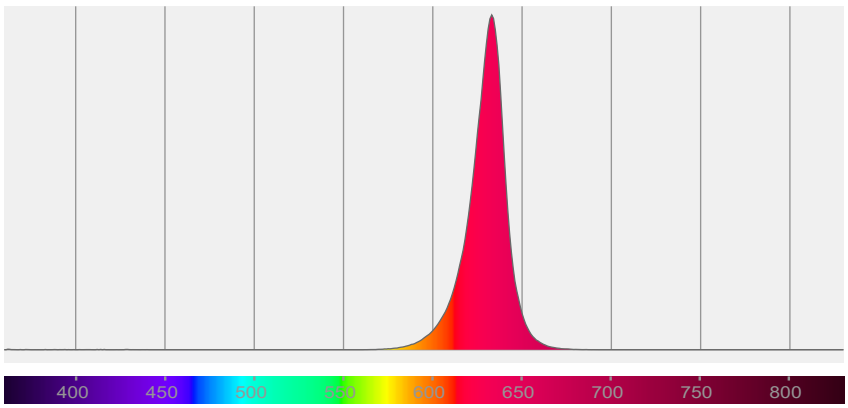


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

NaN K

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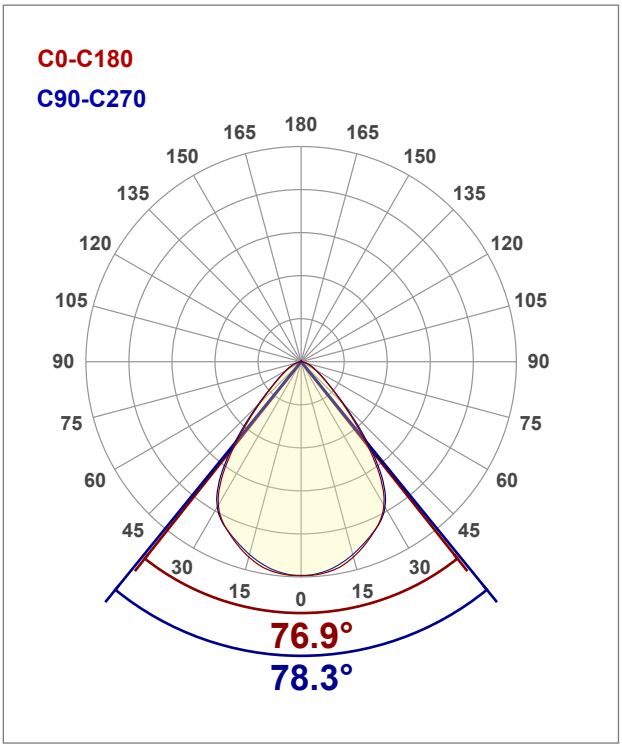
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	3495 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	2239 cd
Beam Angle (50%-FWHM)	78.0°

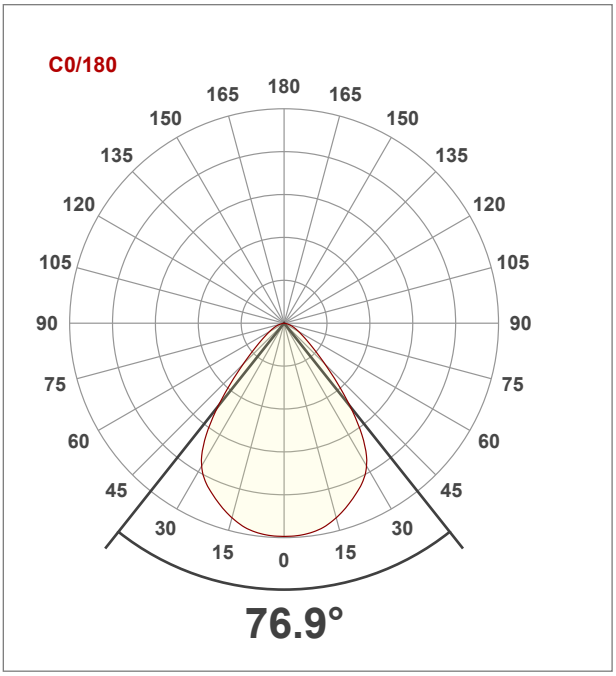
EU Ecodesign parameters

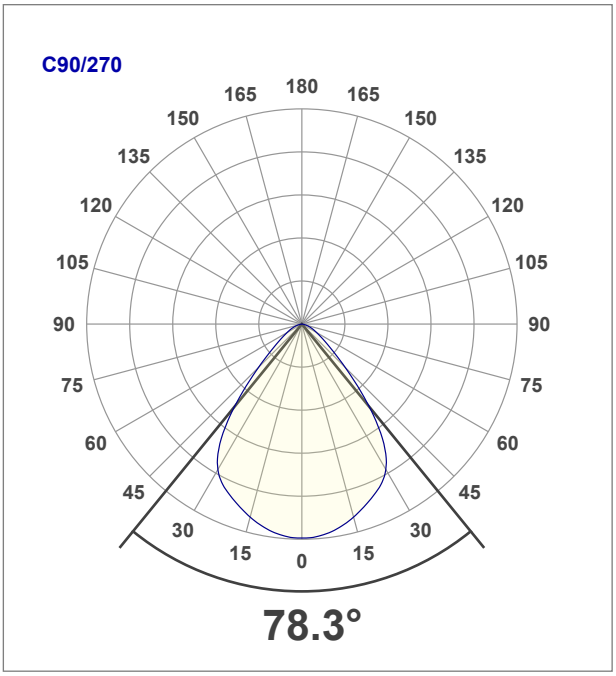
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	2874 lm
Ecodesign Energy Class	G

Intensity Ratio

In 120° cone	94.76%
In 90° cone	82.23%

Angular Distribution





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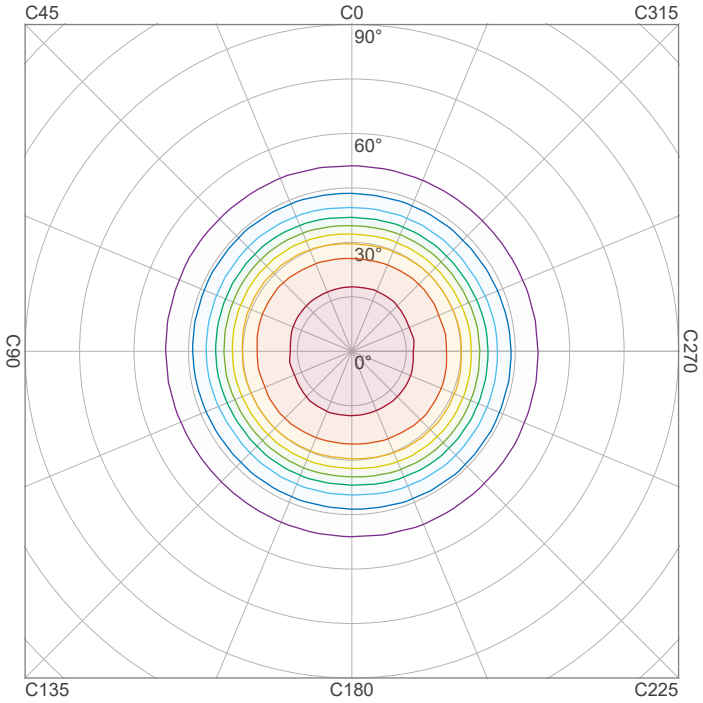
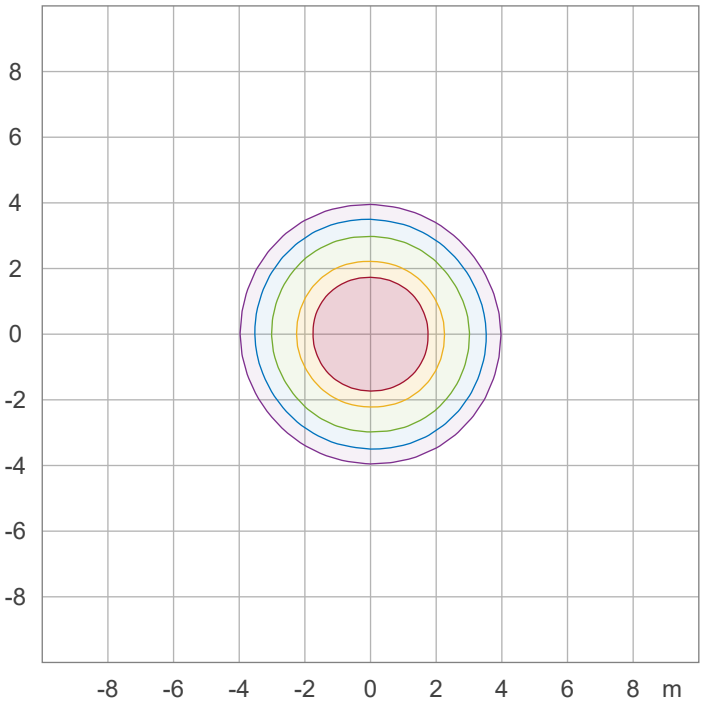
Iso-intensity Diagram (Iso-candela)



90 %	2014.7 cd
80 %	1790.8 cd
70 %	1567.0 cd
60 %	1343.1 cd
50 %	1119.3 cd
40 %	895.4 cd
30 %	671.6 cd
20 %	447.7 cd
10 %	223.9 cd

Peak intensity: 2238.6 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	124 lx
30.0 %	74.6 lx
10.0 %	24.9 lx
5.0 %	12.4 lx
3.0 %	7.46 lx

Peak illuminance: 249 lx
Mounting height: 3 m
Number of c-planes: 36

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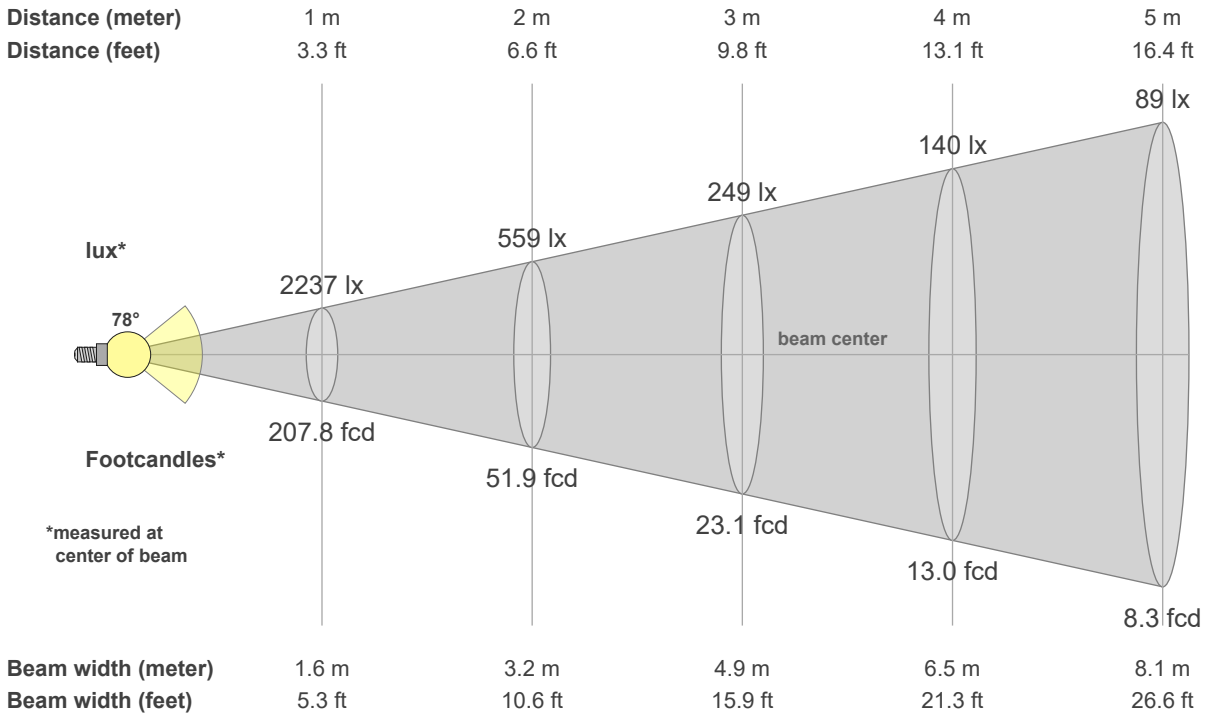
Beam details



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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
2237	559	249	140	89	62	46	35	28	22	18	16	13	11	10	9	8	7	6	6	lux
207.8	51.9	23.1	13	8.3	5.8	4.2	3.2	2.6	2.1	1.7	1.4	1.2	1.1	0.9	0.8	0.7	0.6	0.6	0.5	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
2237	2229	2191	2113	2008	1891	1724	1418	982	613	382	256	179	126	85	48	20	0	0	0	cd
100%	100%	98%	94%	90%	85%	77%	63%	44%	27%	17%	11%	8%	6%	4%	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
2237	2218	2165	2086	1992	1894	1748	1471	1041	645	393	262	179	128	85	50	18	1	0	0	cd
100%	99%	97%	93%	89%	85%	78%	66%	47%	29%	18%	12%	8%	6%	4%	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
2237	2229	2191	2113	2008	1891	1724	1418	982	613	382	256	179	126	85	48	20	0	0	0	cd
100%	100%	98%	94%	90%	85%	77%	63%	44%	27%	17%	11%	8%	6%	4%	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
2237	2218	2165	2086	1992	1894	1748	1471	1041	645	393	262	179	128	85	50	18	1	0	0	cd
100%	99%	97%	93%	89%	85%	78%	66%	47%	29%	18%	12%	8%	6%	4%	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

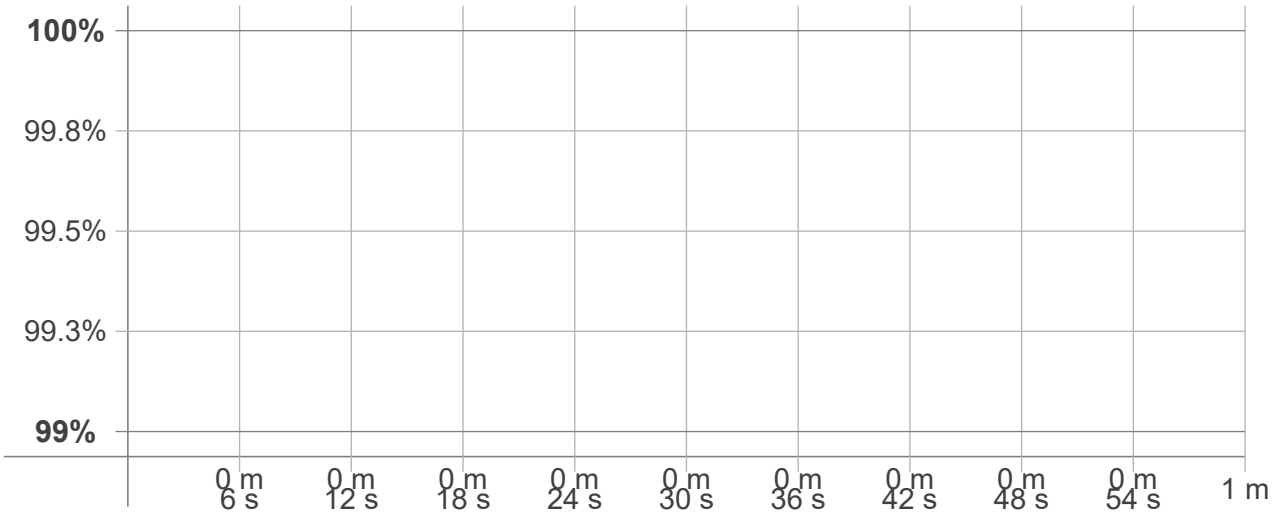
Efficiency

Radiated power efficiency	13.98
Lumen efficiency	27.11 lm/W

Stabilization details

Warmup Conditions		Color Temperature Change	
Stable period	n/a	CCT start	n/a
Stable change max	n/a%	CCT shift	n/a
Minimum time	n/a	CCT end	n/a
Warmup Result		**Output Change**	
Total warmup time	n/a	Output start	NaN lm
Warmup variation	NaN%	Output change	NaN lm
		Output end	3495 lm

Stabilization Curve



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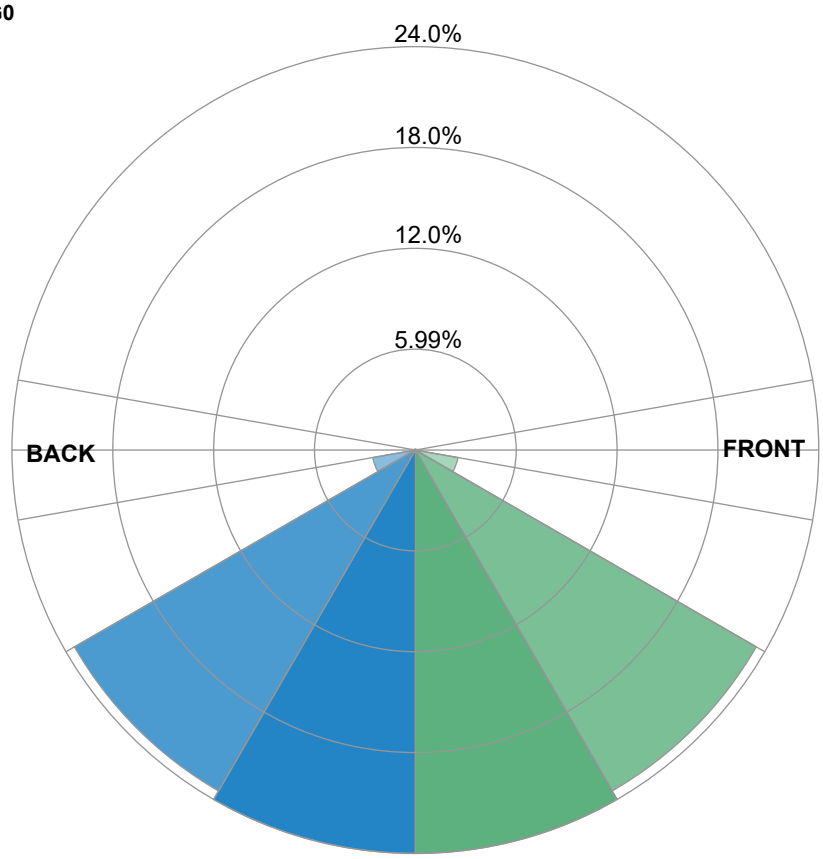
FL200-G2-XXX-RGBW3083-OM-80-INF-XXXXX-X (R)

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

Forward Light			
Low (0-30°)	838	lm	24.0%
Medium (30-60°)	818	lm	23.4%
High (60-80°)	89.8	lm	2.57%
Very High (80-90°)	2.18	lm	0.0623%
Back Light			
Low (0-30°)	838	lm	24.0%
Medium (30-60°)	818	lm	23.4%
High (60-80°)	89.8	lm	2.57%
Very High (80-90°)	2.18	lm	0.0623%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	3495	lm	100%

BUG RATING B2 U0 G0