Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-6030-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.Apr.17-7946-VO
Measurement date	2026-04-17

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	1.00°
Input Power	128.5 W

Electrical Data

Input Power	128.5 W
Input Voltage	381.4 V DC
Input Current	0.34 A
Power Factor	1.00

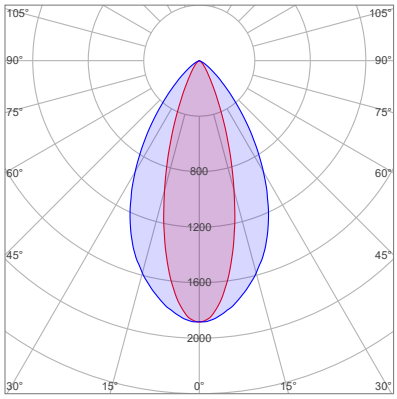
Tested Light Source

Product family	FL200-G2
Luminaire configuration	FL200-G2-XXX-RGBW3083-OM-6030-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

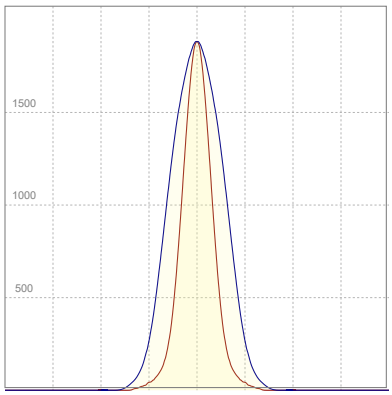
Output – Total Lumen	1137 - 0% / 100%
Efficiency	8.85 lm/W
Peak Intensity	1885
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	30.6°
Beam Angle (FWHM) | C90/270	59.3°
Field Angle (10%) | C0/180	58.0°Unit: 0-100% of peak intensity
Optical Power	26718 mW
Peak Wavelength	454 nm
Dominant Wavelength	458 nm

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

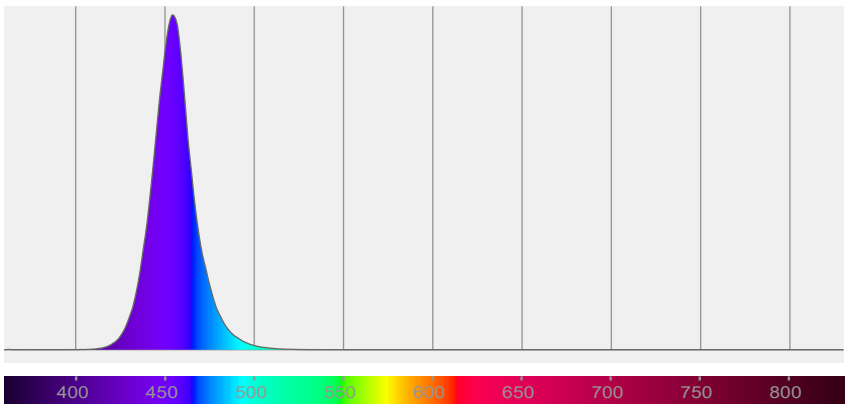


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

NaN K

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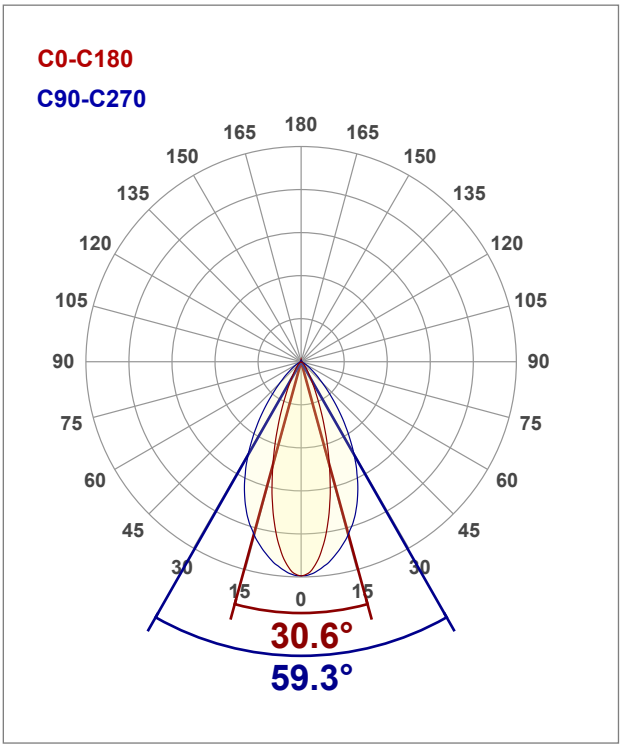
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	1137 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	1885 cd
Beam Angle (50%-FWHM)	41.9°

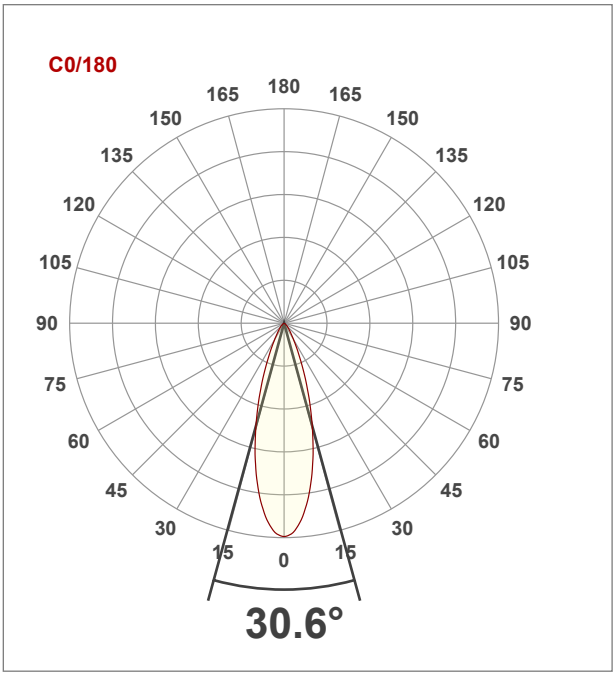
EU Ecodesign parameters

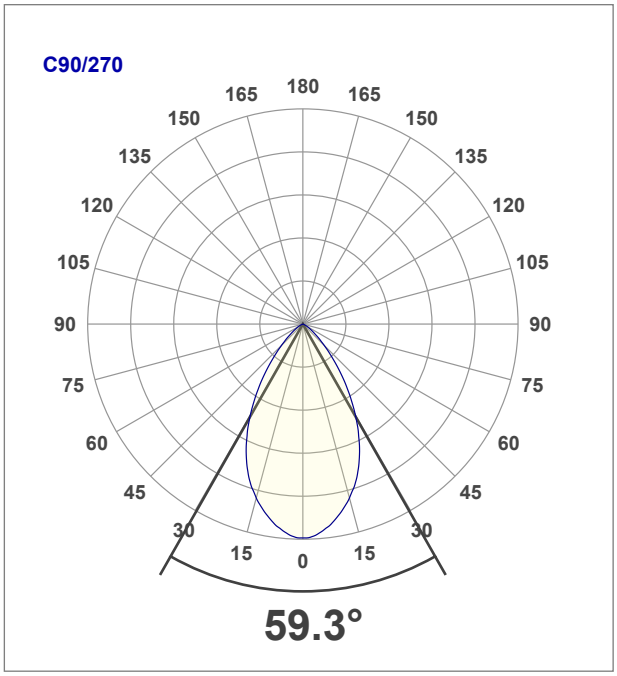
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	1060 lm
Ecodesign Energy Class	G

Intensity Ratio

In 120° cone	99.33%
In 90° cone	93.2%

Angular Distribution





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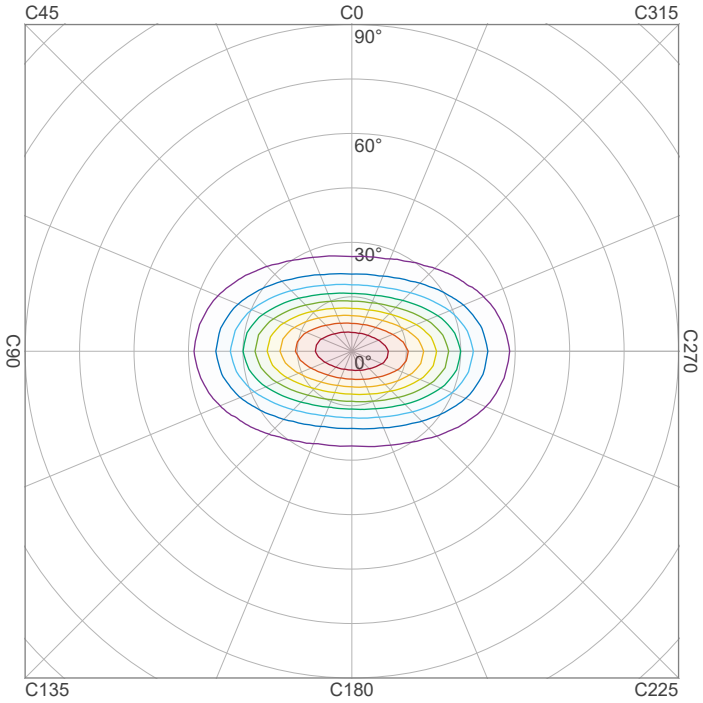
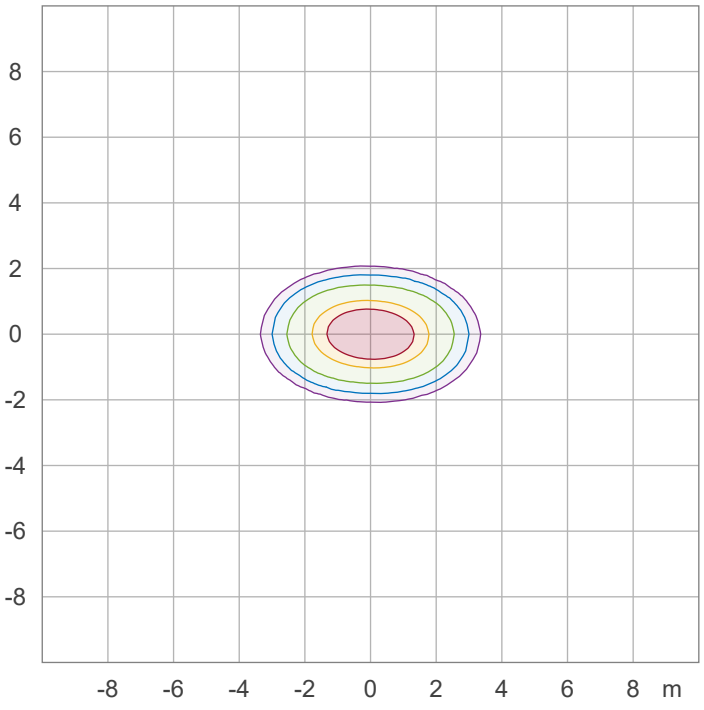
Iso-intensity Diagram (Iso-candela)



90 %	1696.6 cd
80 %	1508.1 cd
70 %	1319.6 cd
60 %	1131.0 cd
50 %	942.5 cd
40 %	754.0 cd
30 %	565.5 cd
20 %	377.0 cd
10 %	188.5 cd

Peak intensity: 1885.1 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	105 lx
30.0 %	62.8 lx
10.0 %	20.9 lx
5.0 %	10.5 lx
3.0 %	6.28 lx

Peak illuminance: 209 lx
Mounting height: 3 m
Number of c-planes: 36

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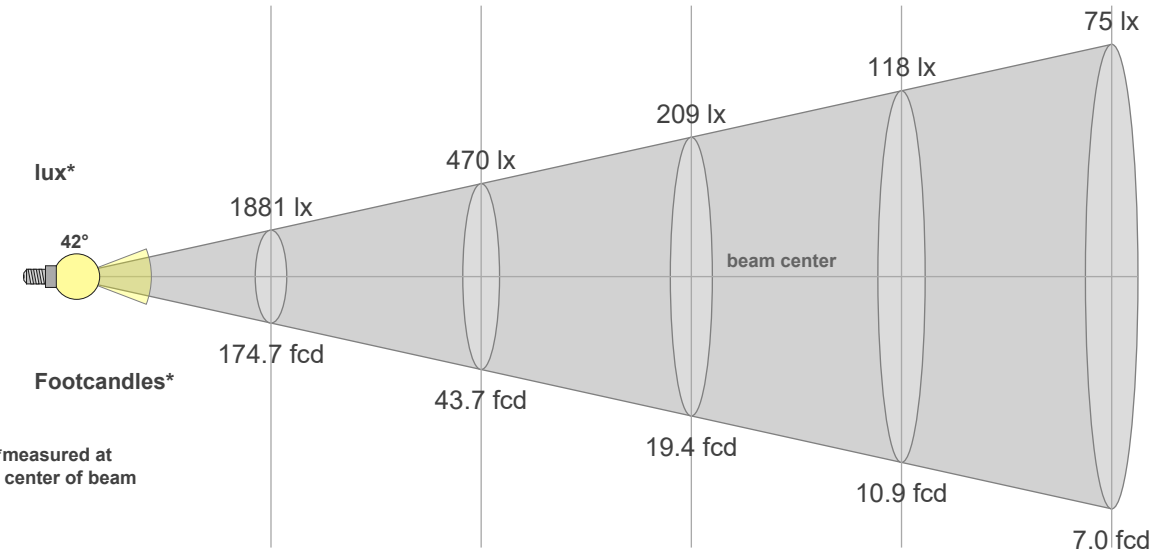
Beam details

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)	0.8 m	1.5 m	2.3 m	3.1 m	3.8 m
Beam width (feet)	2.5 ft	5 ft	7.5 ft	10.1 ft	12.6 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
1881	470	209	118	75	52	38	29	23	19	16	13	11	10	8	7	7	6	5	5	lux
174.7	43.7	19.4	10.9	7	4.9	3.6	2.7	2.2	1.7	1.4	1.2	1	0.9	0.8	0.7	0.6	0.5	0.5	0.4	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
1881	1860	1789	1682	1547	1392	1225	1051	885	730	586	463	358	278	214	167	131	107	89	74	cd
100%	99%	95%	89%	82%	74%	65%	56%	47%	39%	31%	25%	19%	15%	11%	9%	7%	6%	5%	4%	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
1881	1877	1853	1817	1778	1727	1674	1616	1549	1483	1405	1319	1226	1127	1028	924	819	718	622	528	cd
100%	100%	99%	97%	95%	92%	89%	86%	82%	79%	75%	70%	65%	60%	55%	49%	44%	38%	33%	28%	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
1881	1860	1789	1682	1547	1392	1225	1051	885	730	586	463	358	278	214	167	131	107	89	74	cd
100%	99%	95%	89%	82%	74%	65%	56%	47%	39%	31%	25%	19%	15%	11%	9%	7%	6%	5%	4%	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
1881	1877	1853	1817	1778	1727	1674	1616	1549	1483	1405	1319	1226	1127	1028	924	819	718	622	528	cd
100%	100%	99%	97%	95%	92%	89%	86%	82%	79%	75%	70%	65%	60%	55%	49%	44%	38%	33%	28%	of 0°val

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Power details

Input power	
Frequency of input power	0.0 Hz
Power feed to light source	128.5 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	128.5 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

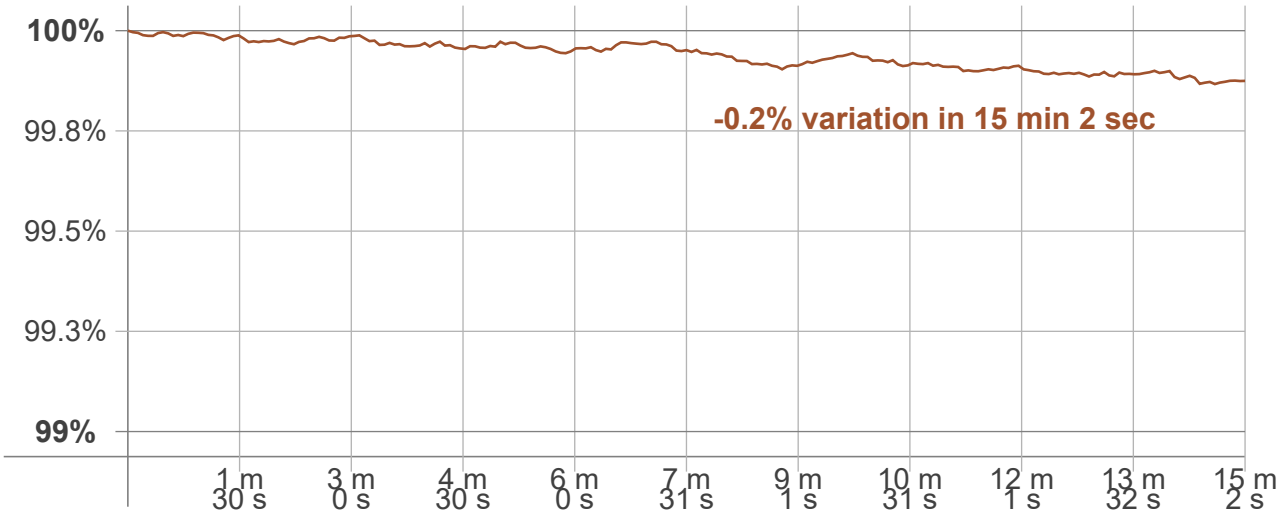
Efficiency

Radiated power efficiency	20.79
Lumen efficiency	8.85 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	1139 lm
Warmup variation	-0.2313%	Output change	-1.5365 lm
		Output end	1137 lm

Stabilization Curve



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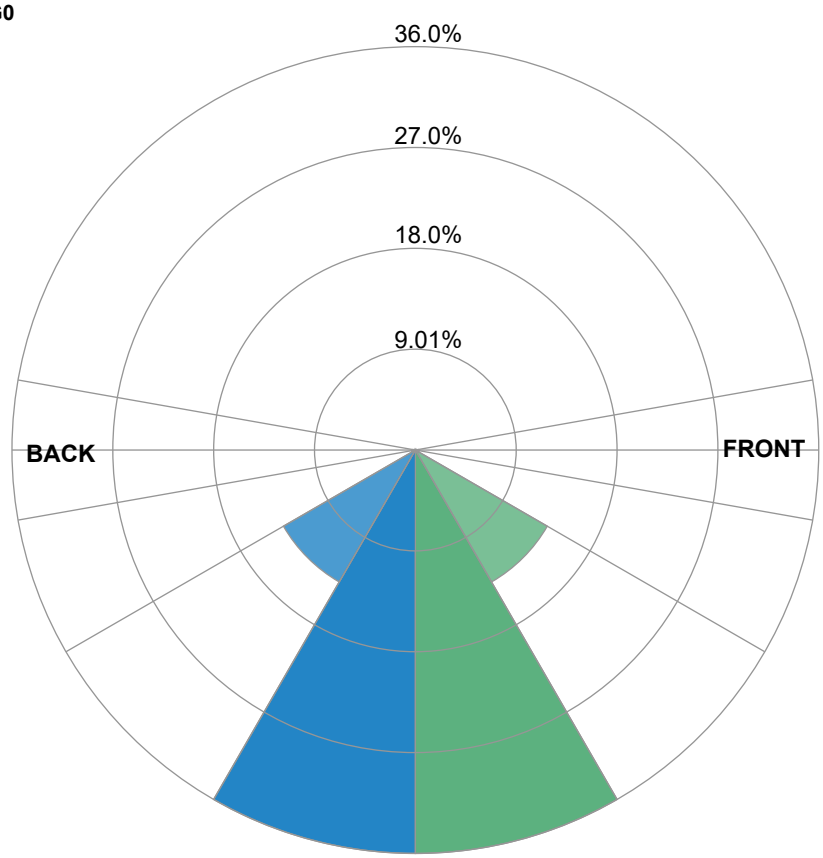
FL200-G2-XXX-RGBW3083-OM-6030-INF-XXXXX-X (B)

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

Forward Light			
Low (0-30°)	410	lm	36.0%
Medium (30-60°)	155	lm	13.6%
High (60-80°)	3.94	lm	0.347%
Very High (80-90°)	0	lm	0%
Back Light			
Low (0-30°)	410	lm	36.0%
Medium (30-60°)	155	lm	13.6%
High (60-80°)	3.94	lm	0.347%
Very High (80-90°)	0	lm	0%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	1137	lm	100%

BUG RATING B1 U0 G0