Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-80-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.May.26-8910-VO
Measurement date	2026-05-26

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

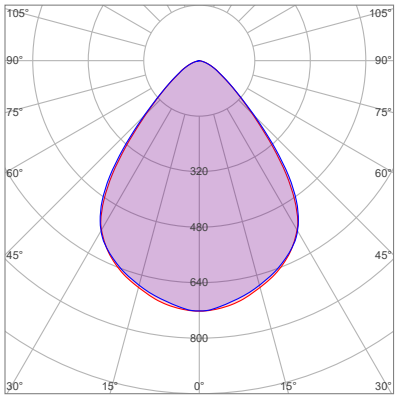
Tested Light Source

Product family	FL200-G2
Luminaire configuration	FL200-G2-XXX-RGBW3083-OM-80-INF-XXXXX-X (B)
Manufacturer	GVA Lighting, Inc.
Size (width x length x height)	106 mm 0 mm x 430 mm

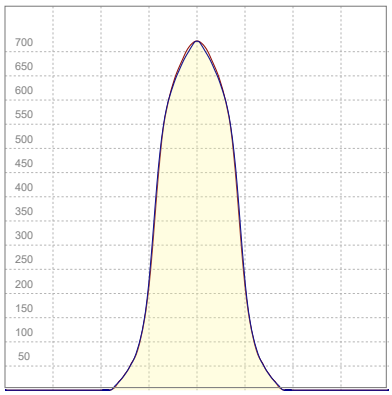
Main Light Measurement Results

Output – Total Lumen	1153 - 0% / 100%
Efficiency	8.947 lm/W
Peak Intensity	721.8
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	78.5°
Beam Angle (FWHM) | C90/270	79.9°
Field Angle (10%) | C0/180	115.0°Unit: 0-100% of peak intensity
Optical Power	27249 mW
Peak Wavelength	454 nm
Dominant Wavelength	458 nm

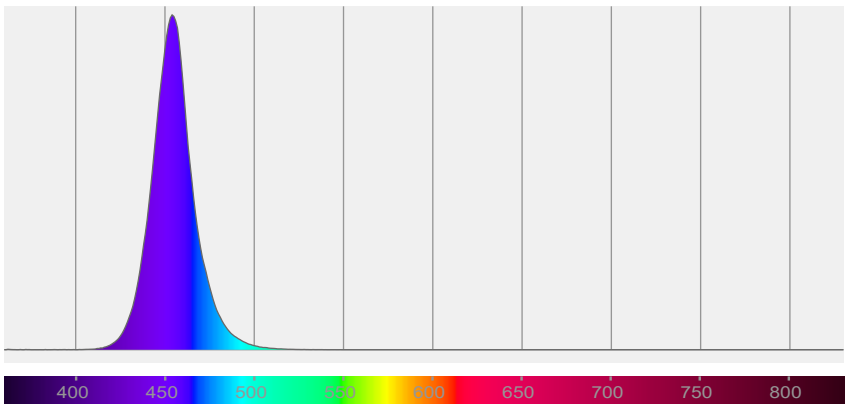
Polar Light Distribution Diagram
Unit: 0-100% of peak intensity



Linear distribution Diagram



Spectral Distribution



Color Temperature

NaN K

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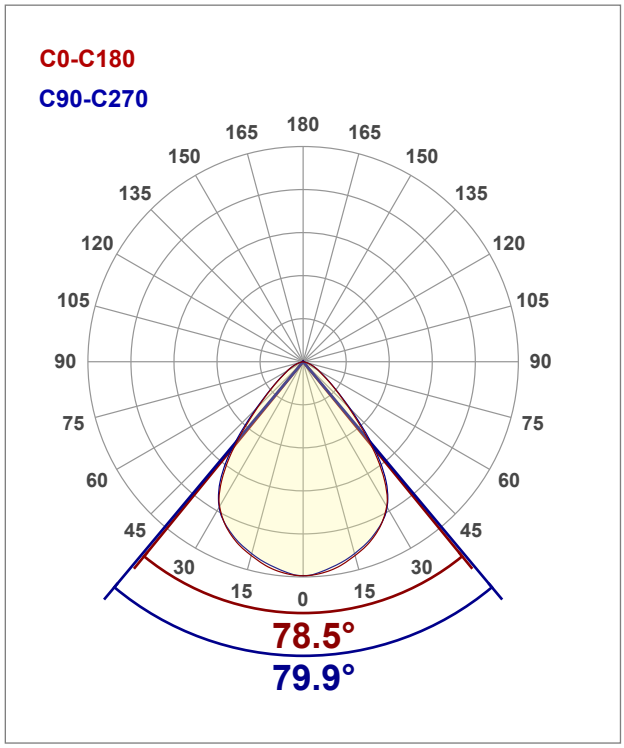
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	1153 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	721.8 cd
Beam Angle (50%-FWHM)	79.6°

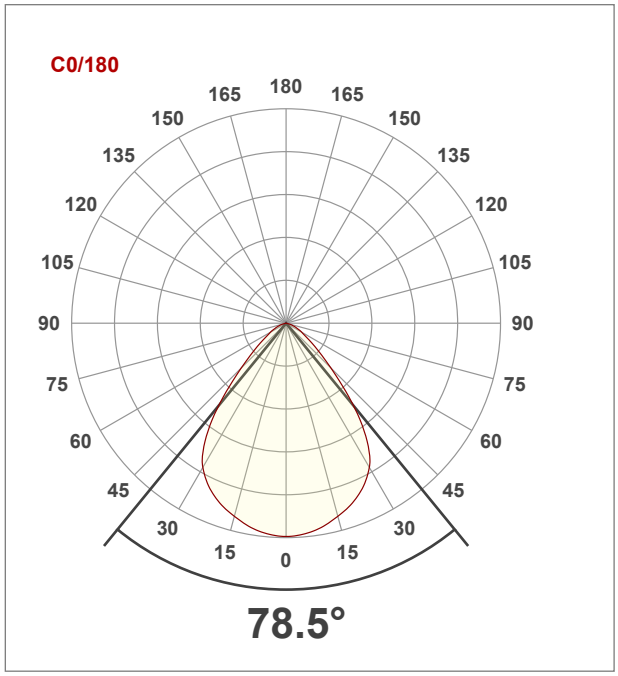
EU Ecodesign parameters

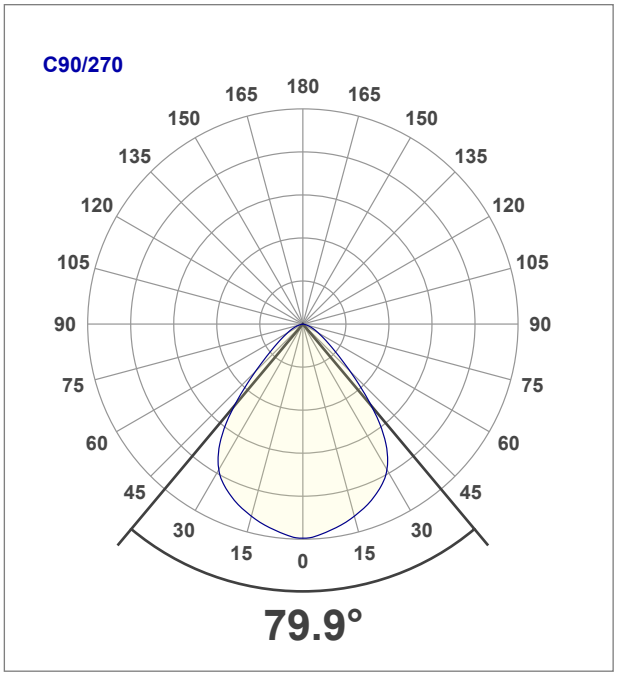
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	944.1 lm
Ecodesign Energy Class	G

Intensity Ratio

In 120° cone	95.26%
In 90° cone	81.85%

Angular Distribution





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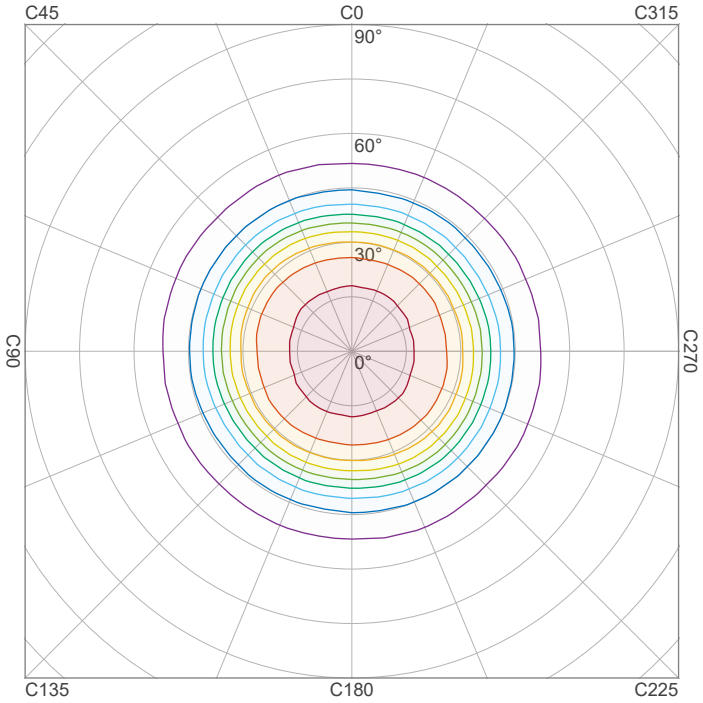
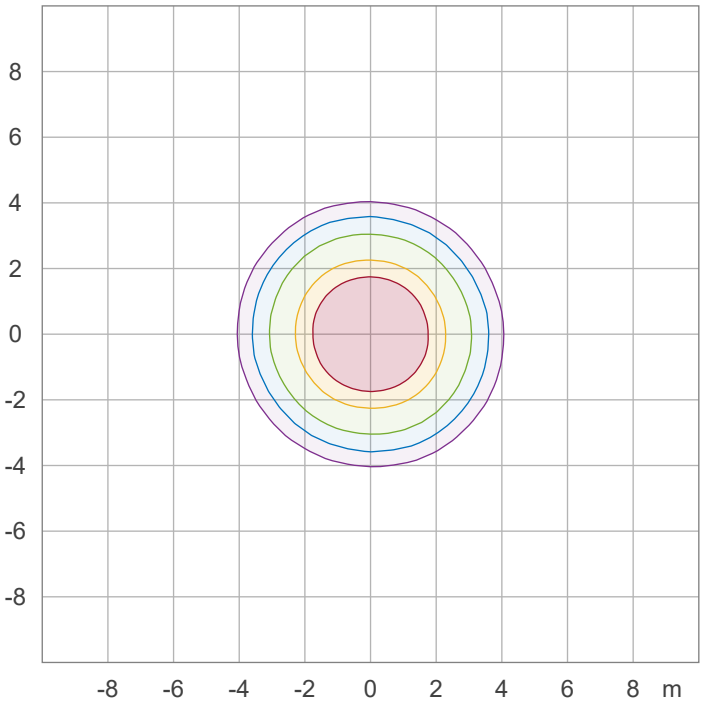
Iso-intensity Diagram (Iso-candela)



90 %	649.6 cd
80 %	577.4 cd
70 %	505.3 cd
60 %	433.1 cd
50 %	360.9 cd
40 %	288.7 cd
30 %	216.5 cd
20 %	144.4 cd
10 %	72.2 cd

Peak intensity: 721.8 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	40.1 lx
30.0 %	24 lx
10.0 %	8.02 lx
5.0 %	4.01 lx
3.0 %	2.4 lx

Peak illuminance: 80.2 lx
Mounting height: 3 m
Number of c-planes: 36

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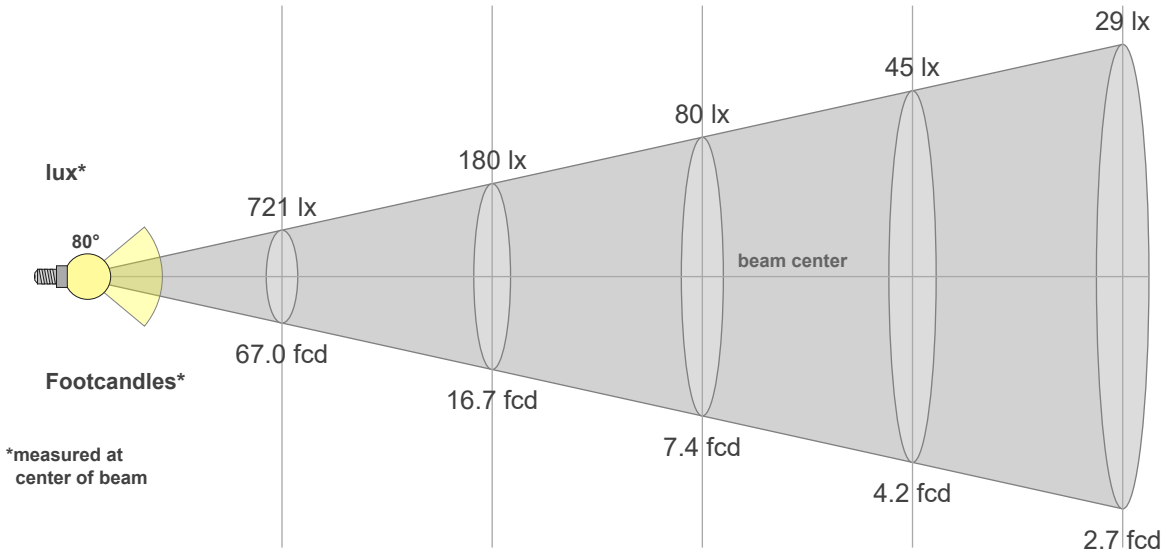
Beam details

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)	1.7 m	3.3 m	5 m	6.7 m	8.3 m
Beam width (feet)	5.5 ft	10.9 ft	16.4 ft	21.9 ft	27.3 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
721	180	80	45	29	20	15	11	9	7	6	5	4	4	3	3	2	2	2	2	lux
67	16.7	7.4	4.2	2.7	1.9	1.4	1	0.8	0.7	0.6	0.5	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	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
721	716	701	677	650	614	562	472	340	217	137	88	61	41	25	12	2	0	0	0	cd
100%	99%	97%	94%	90%	85%	78%	65%	47%	30%	19%	12%	8%	6%	4%	2%	0%	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
721	711	692	670	644	612	565	485	358	228	140	91	61	41	26	13	2	0	0	0	cd
100%	99%	96%	93%	89%	85%	78%	67%	50%	32%	19%	13%	8%	6%	4%	2%	0%	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
721	716	701	677	650	614	562	472	340	217	137	88	61	41	25	12	2	0	0	0	cd
100%	99%	97%	94%	90%	85%	78%	65%	47%	30%	19%	12%	8%	6%	4%	2%	0%	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
721	711	692	670	644	612	565	485	358	228	140	91	61	41	26	13	2	0	0	0	cd
100%	99%	96%	93%	89%	85%	78%	67%	50%	32%	19%	13%	8%	6%	4%	2%	0%	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

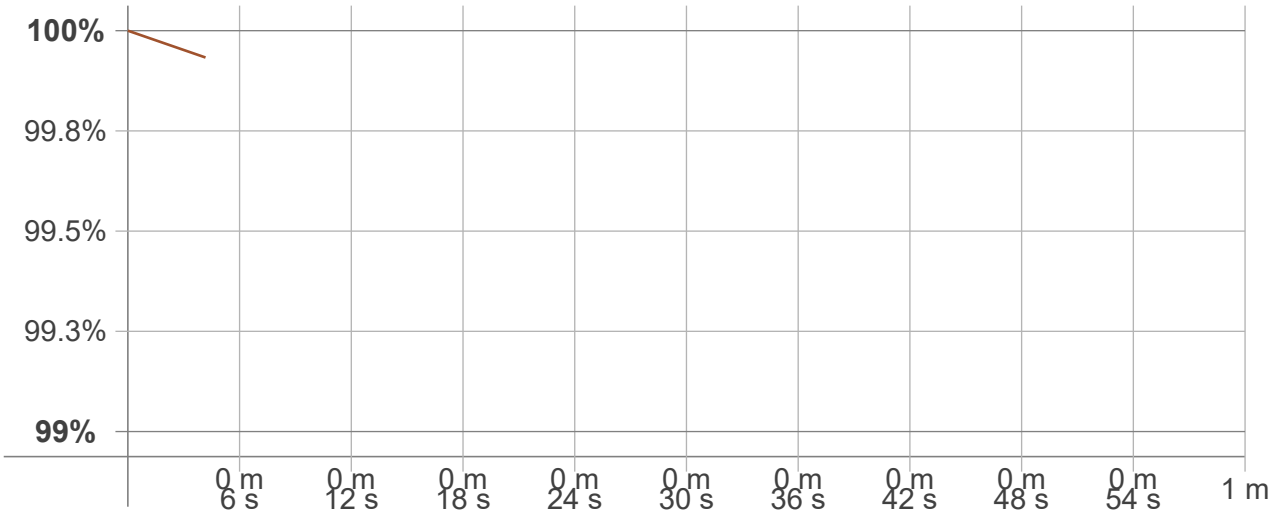
Efficiency

Radiated power efficiency	21.14
Lumen efficiency	8.947 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	1154 lm
Warmup variation	-0.0669%	Output change	-0.7725 lm
		Output end	1153 lm

Stabilization Curve



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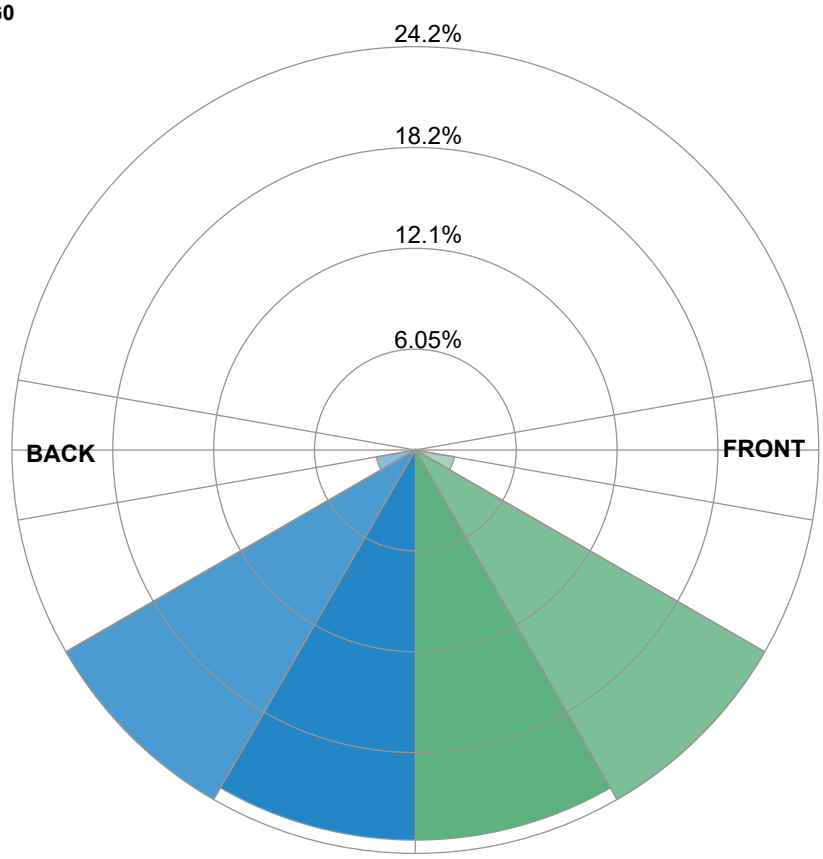
FL200-G2-XXX-RGBW3083-OM-80-INF-XXXXX-X (B)

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

Forward Light			
Low (0-30°)	270	lm	23.4%
Medium (30-60°)	279	lm	24.2%
High (60-80°)	27.4	lm	2.38%
Very High (80-90°)	0.0984	lm	0.00853%
Back Light			
Low (0-30°)	270	lm	23.4%
Medium (30-60°)	279	lm	24.2%
High (60-80°)	27.4	lm	2.38%
Very High (80-90°)	0.0984	lm	0.00853%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	1153	lm	100%

BUG RATING B1 U0 G0