Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-30L-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.Jun.02-9291-VO
Measurement date	2026-06-02

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	1.00°
Input Power	128.9 W

Electrical Data

Input Power	128.9 W
Input Voltage	381.5 V DC
Input Current	0.34 A
Power Factor	1.00

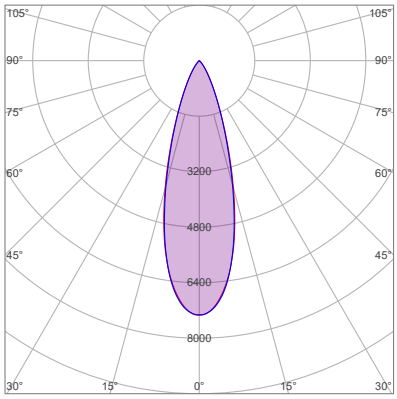
Tested Light Source

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

Main Light Measurement Results

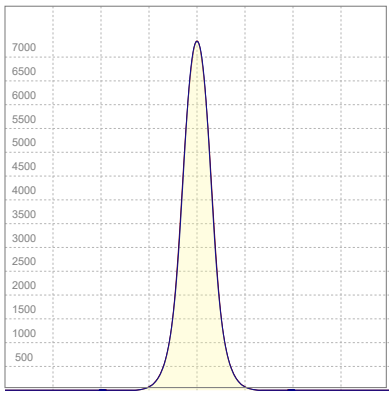
Output – Total Lumen	2435 - 0% / 100%
Efficiency	18.89 lm/W
Peak Intensity	7335
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	30.7°
Beam Angle (FWHM) | C90/270	30.2°
Field Angle (10%) | C0/180	56.9°Unit: 0-100% of peak intensity
Optical Power	12620 mW
Peak Wavelength	633 nm
Dominant Wavelength	622 nm

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

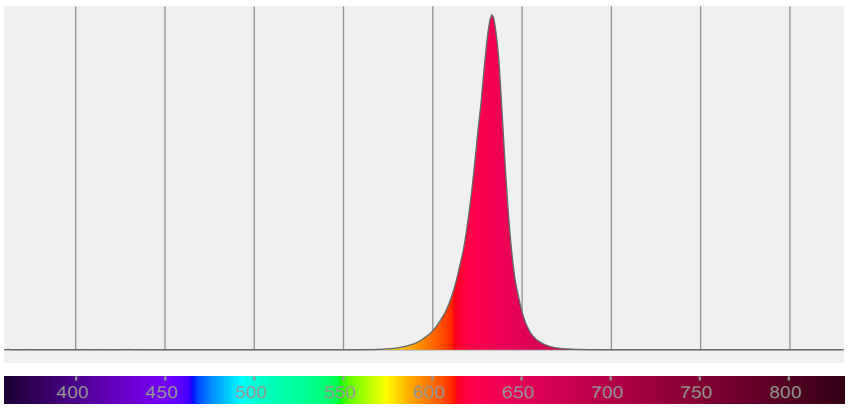


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

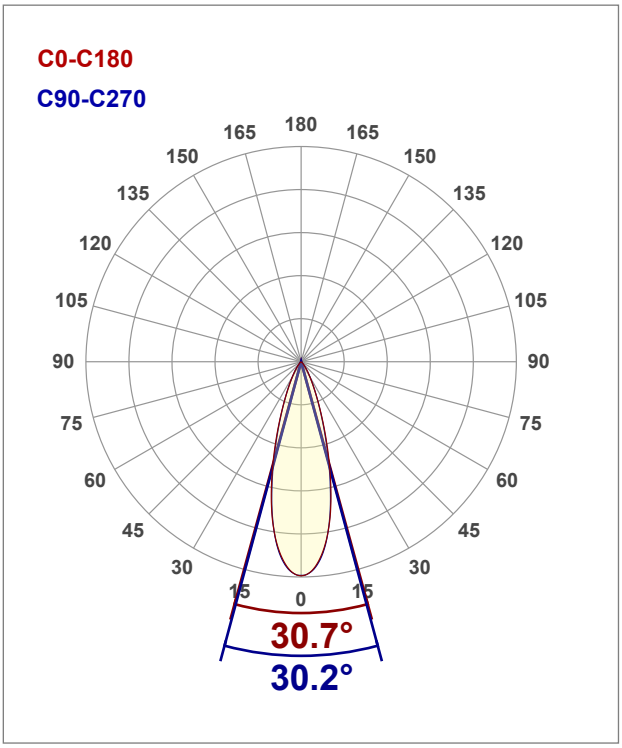
NaN K

Photometric Test Report

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

Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	2435 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	7335 cd
Beam Angle (50%-FWHM)	30.4°

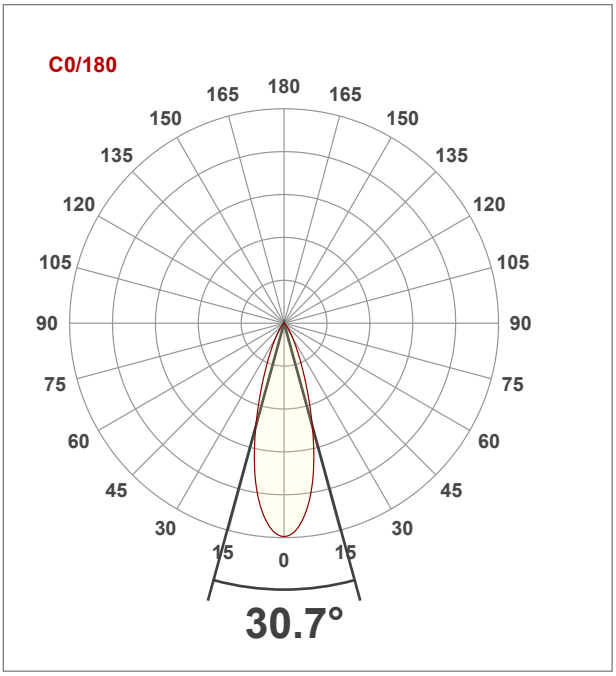
EU Ecodesign parameters

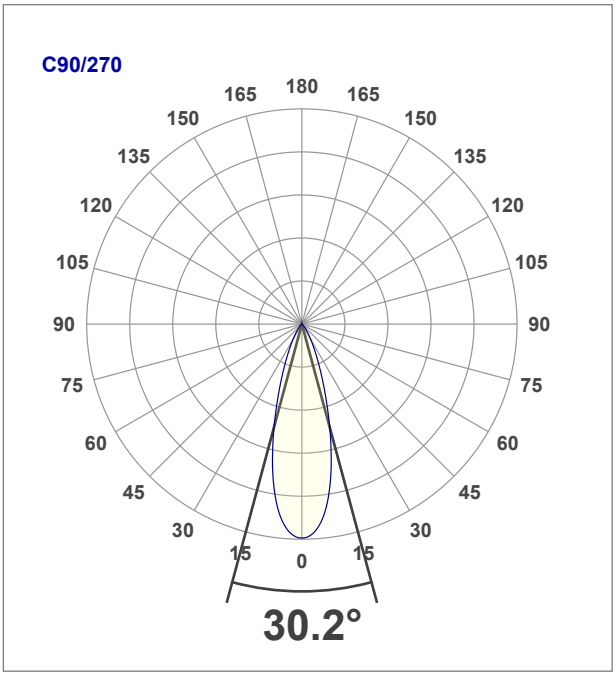
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	2409 lm
Ecodesign Energy Class	G

Intensity Ratio

In 120° cone	100%
In 90° cone	98.92%

Angular Distribution

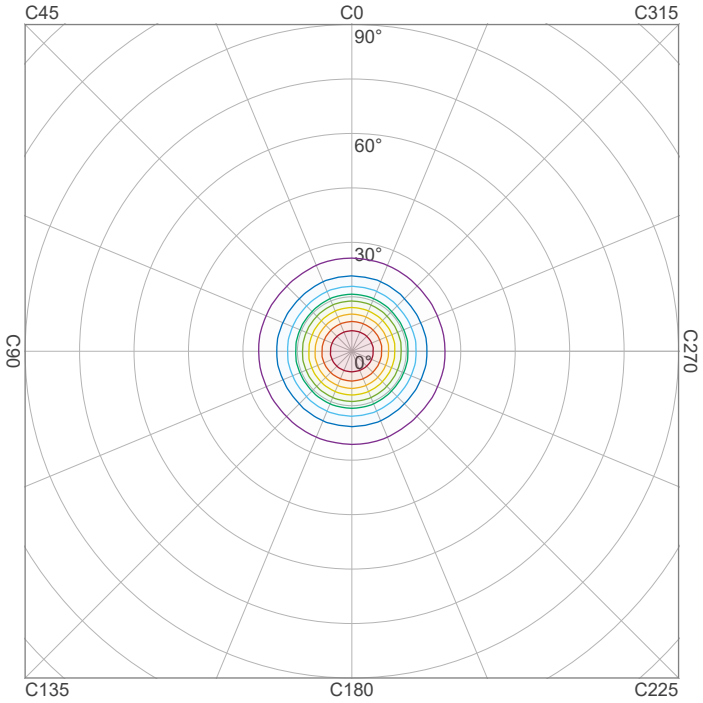




Photometric Test Report

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

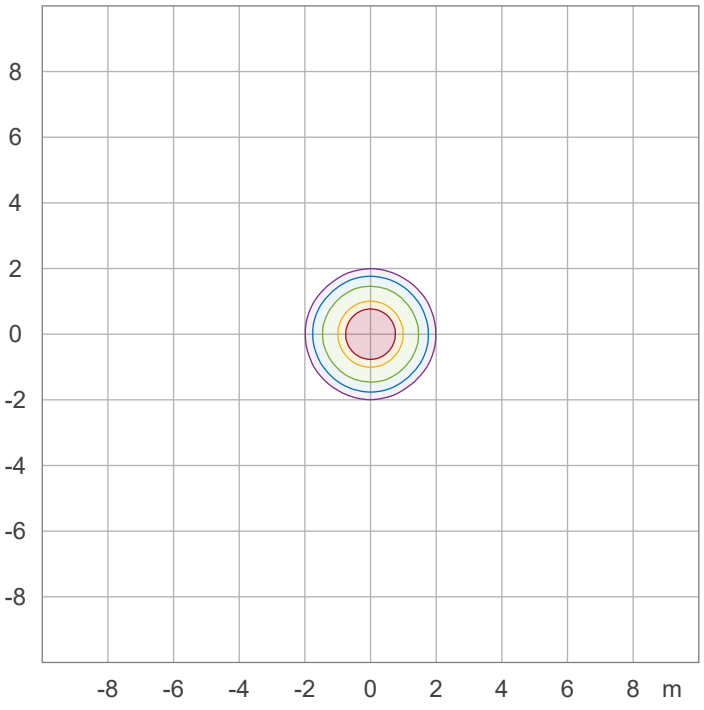
Iso-intensity Diagram (Iso-candela)



90 %	6595.6 cd
80 %	5862.8 cd
70 %	5129.9 cd
60 %	4397.1 cd
50 %	3664.2 cd
40 %	2931.4 cd
30 %	2198.5 cd
20 %	1465.7 cd
10 %	732.8 cd

Peak intensity: 7328.5 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



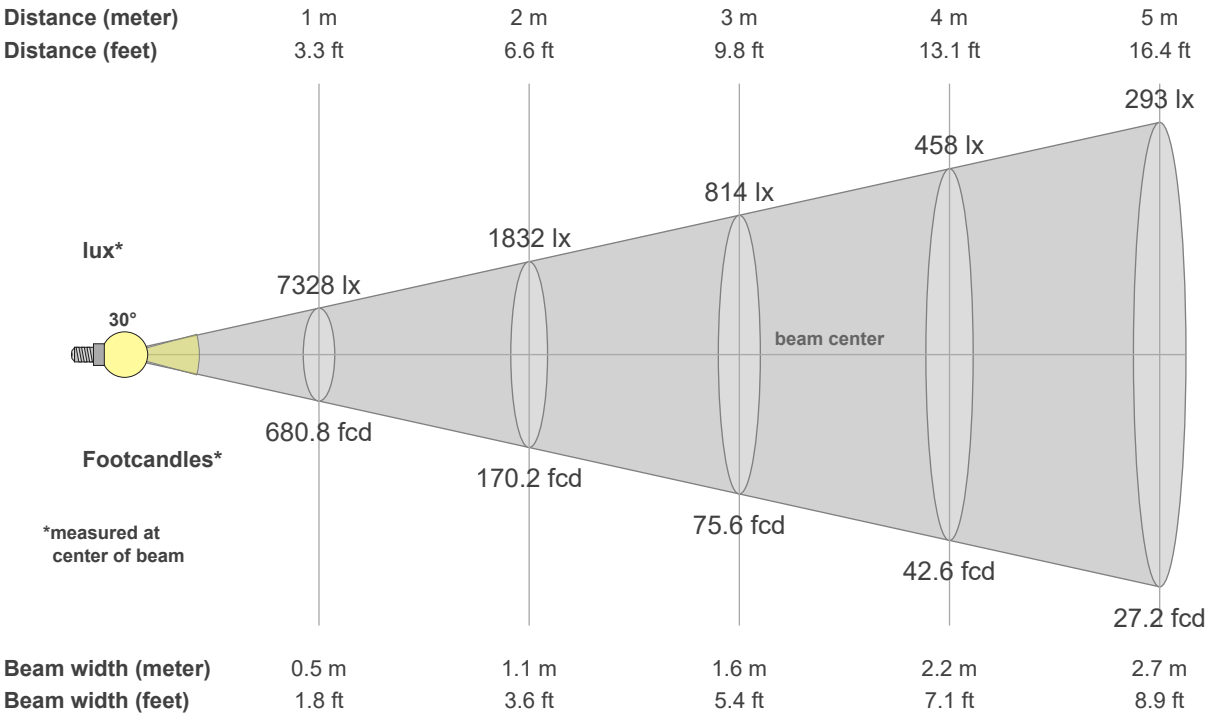
50.0 %	407 lx
30.0 %	244 lx
10.0 %	81.4 lx
5.0 %	40.7 lx
3.0 %	24.4 lx

Peak illuminance: 814 lx
Mounting height: 3 m
Number of c-planes: 36

Photometric Test Report

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

Beam details



Photometric Test Report

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

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
7328	1832	814	458	293	204	150	115	90	73	61	51	43	37	33	29	25	23	20	18	lux
680.8	170.2	75.6	42.6	27.2	18.9	13.9	10.6	8.4	6.8	5.6	4.7	4	3.5	3	2.7	2.4	2.1	1.9	1.7	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
7328	7258	7028	6663	6184	5596	4910	4170	3436	2756	2167	1681	1298	1007	781	606	473	363	278	211	cd
100%	99%	96%	91%	84%	76%	67%	57%	47%	38%	30%	23%	18%	14%	11%	8%	6%	5%	4%	3%	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
7328	7263	7062	6711	6208	5567	4841	4073	3330	2663	2103	1650	1290	1004	781	604	464	356	271	204	cd
100%	99%	96%	92%	85%	76%	66%	56%	45%	36%	29%	23%	18%	14%	11%	8%	6%	5%	4%	3%	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
7328	7258	7028	6663	6184	5596	4910	4170	3436	2756	2167	1681	1298	1007	781	606	473	363	278	211	cd
100%	99%	96%	91%	84%	76%	67%	57%	47%	38%	30%	23%	18%	14%	11%	8%	6%	5%	4%	3%	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
7328	7263	7062	6711	6208	5567	4841	4073	3330	2663	2103	1650	1290	1004	781	604	464	356	271	204	cd
100%	99%	96%	92%	85%	76%	66%	56%	45%	36%	29%	23%	18%	14%	11%	8%	6%	5%	4%	3%	of 0°val

Photometric Test Report

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

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	381.5 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

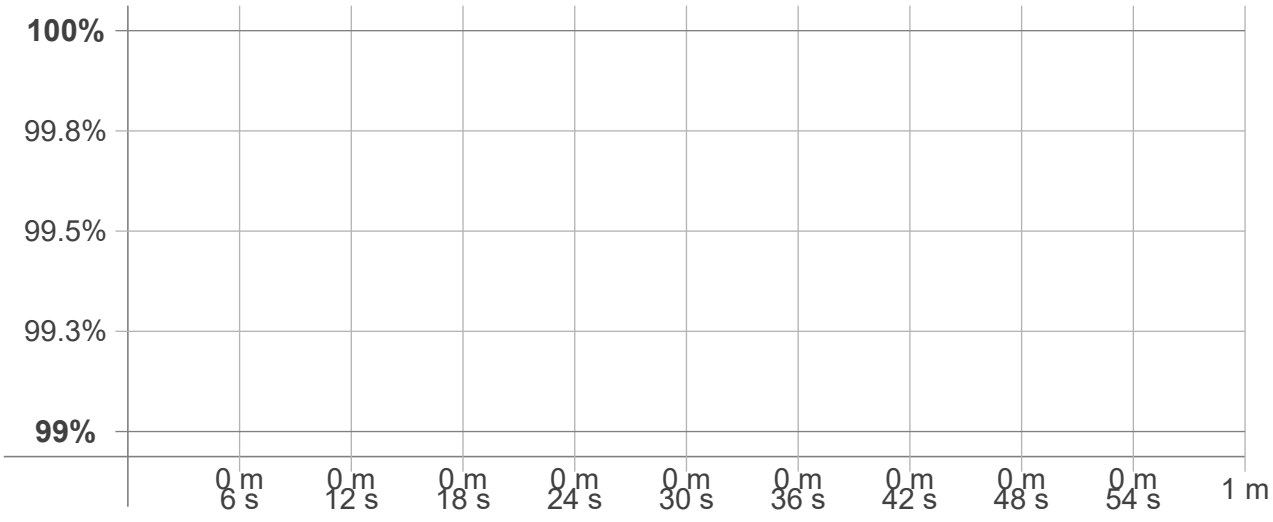
Efficiency

Radiated power efficiency	9.787
Lumen efficiency	18.89 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	2435 lm

Stabilization Curve



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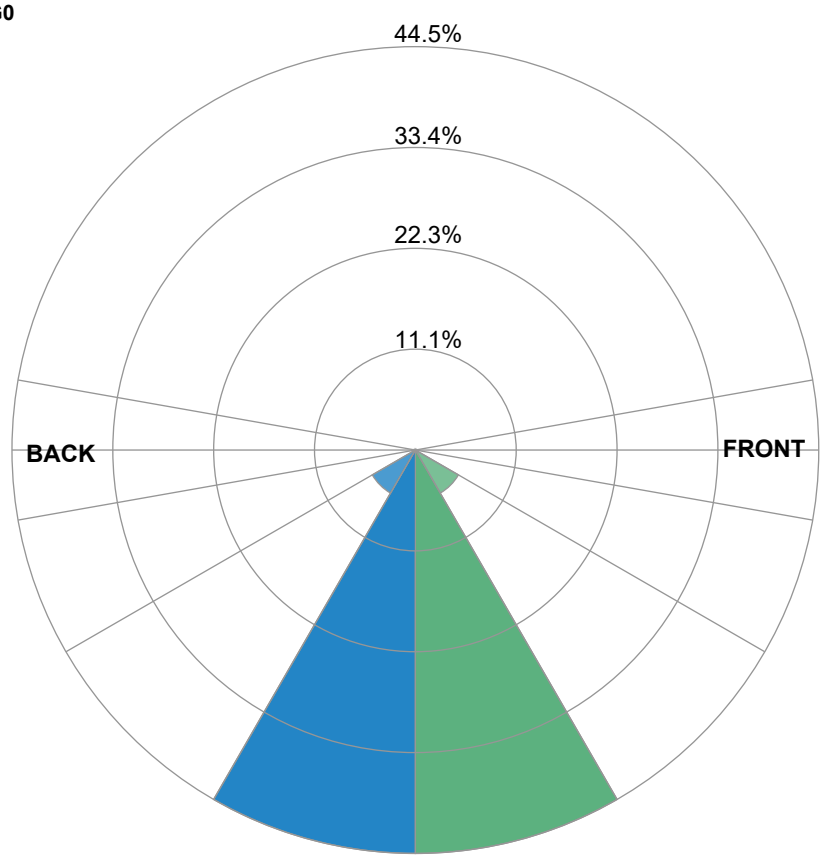
FL200-G2-XXX-RGBW3083-OM-30L-INF-XXXXX-X (R)

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

Forward Light			
Low (0-30°)	1080	lm	44.5%
Medium (30-60°)	134	lm	5.49%
High (60-80°)	0.00151	lm	0.0000621%
Very High (80-90°)	0	lm	0%
Back Light			
Low (0-30°)	1080	lm	44.5%
Medium (30-60°)	134	lm	5.49%
High (60-80°)	0.00151	lm	0.0000621%
Very High (80-90°)	0	lm	0%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	2435	lm	100%

BUG RATING B3 U0 G0