Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-30-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.25-8826-VO
Measurement date	2026-05-25

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	381.4 V DC
Input Current	0.34 A
Power Factor	1.00

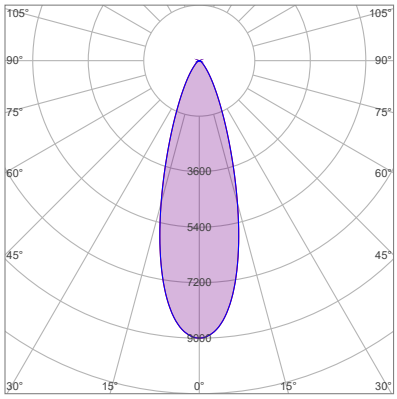
Tested Light Source

Product family	FL200-G2
Luminaire configuration	FL200-G2-XXX-RGBW3083-OM-30-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

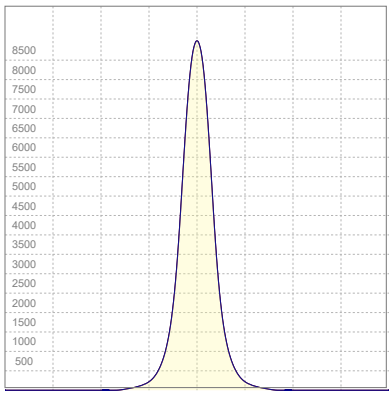
Output – Total Lumen	3516 - 0% / 100%
Efficiency	27.28 lm/W
Peak Intensity	8990
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	31.3°
Beam Angle (FWHM) | C90/270	31.3°
Field Angle (10%) | C0/180	61.4°Unit: 0-100% of peak intensity
Optical Power	18076 mW
Peak Wavelength	633 nm
Dominant Wavelength	622 nm

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

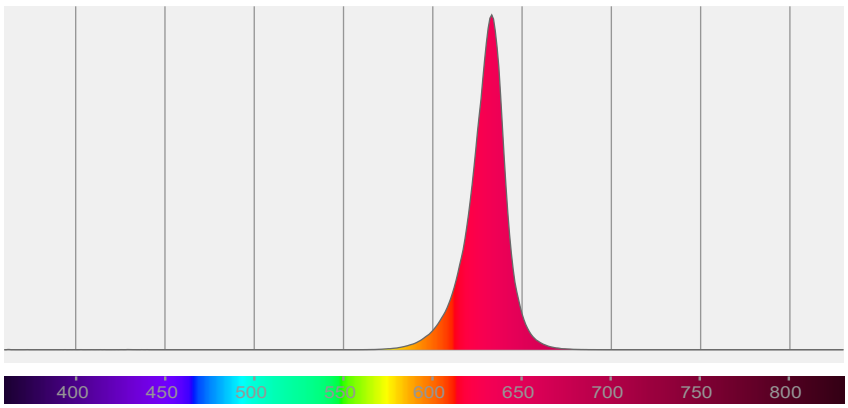


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

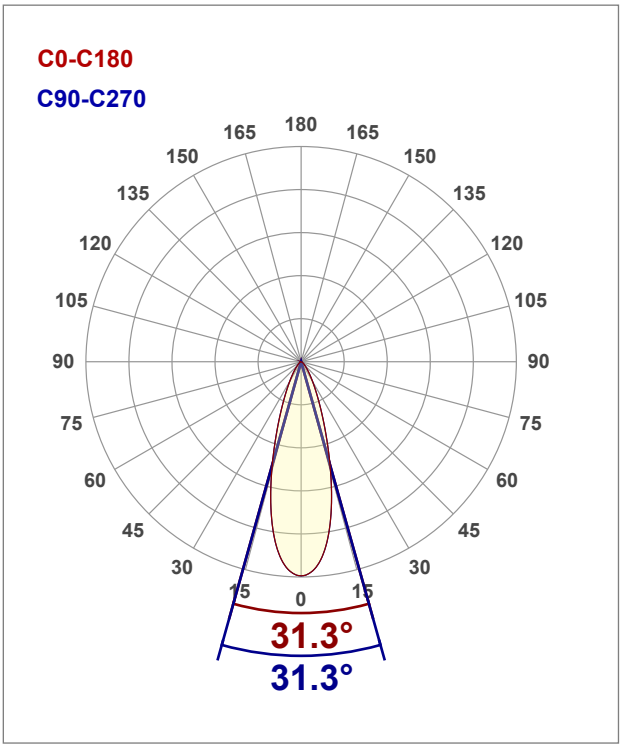
NaN K

Photometric Test Report

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

Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	3516 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	8990 cd
Beam Angle (50%-FWHM)	31.3°

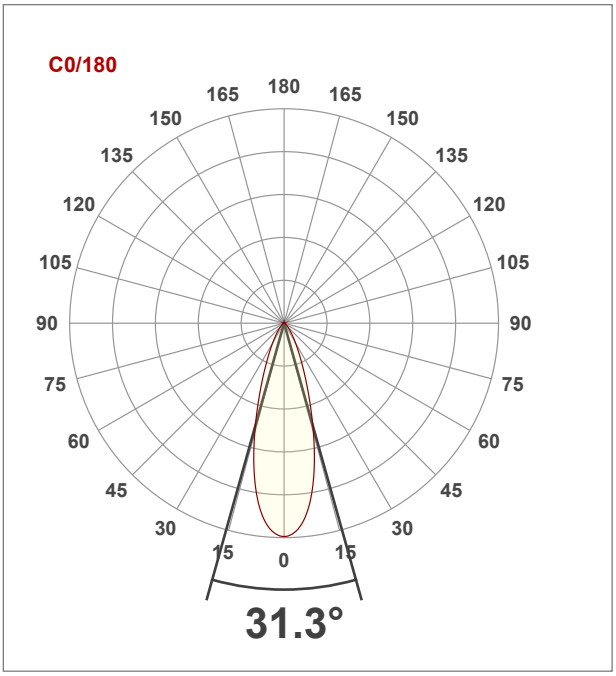
EU Ecodesign parameters

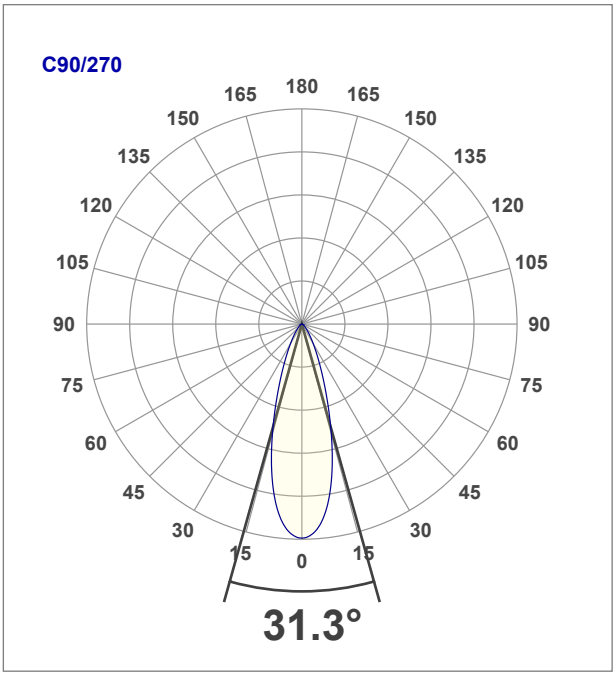
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	3313 lm
Ecodesign Energy Class	G

Intensity Ratio

In 120° cone	98.81%
In 90° cone	94.22%

Angular Distribution

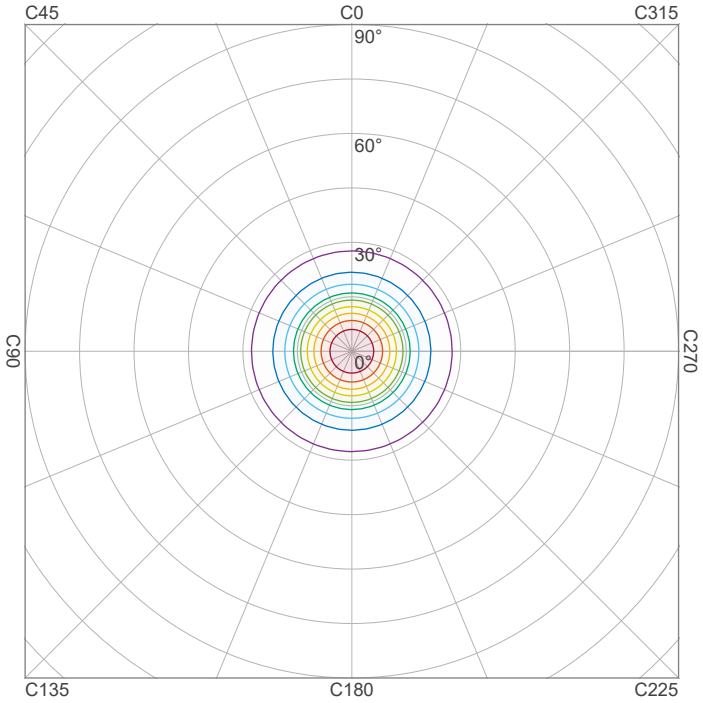




Photometric Test Report

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

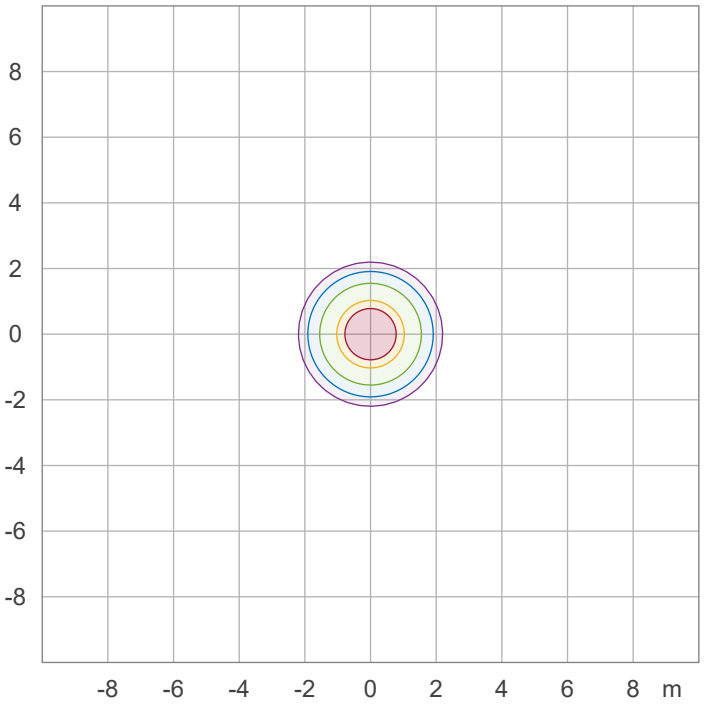
Iso-intensity Diagram (Iso-candela)



90 %	8091.0 cd
80 %	7192.0 cd
70 %	6293.0 cd
60 %	5394.0 cd
50 %	4495.0 cd
40 %	3596.0 cd
30 %	2697.0 cd
20 %	1798.0 cd
10 %	899.0 cd

Peak intensity: 8990.0 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	499 lx
30.0 %	300 lx
10.0 %	99.9 lx
5.0 %	49.9 lx
3.0 %	30 lx

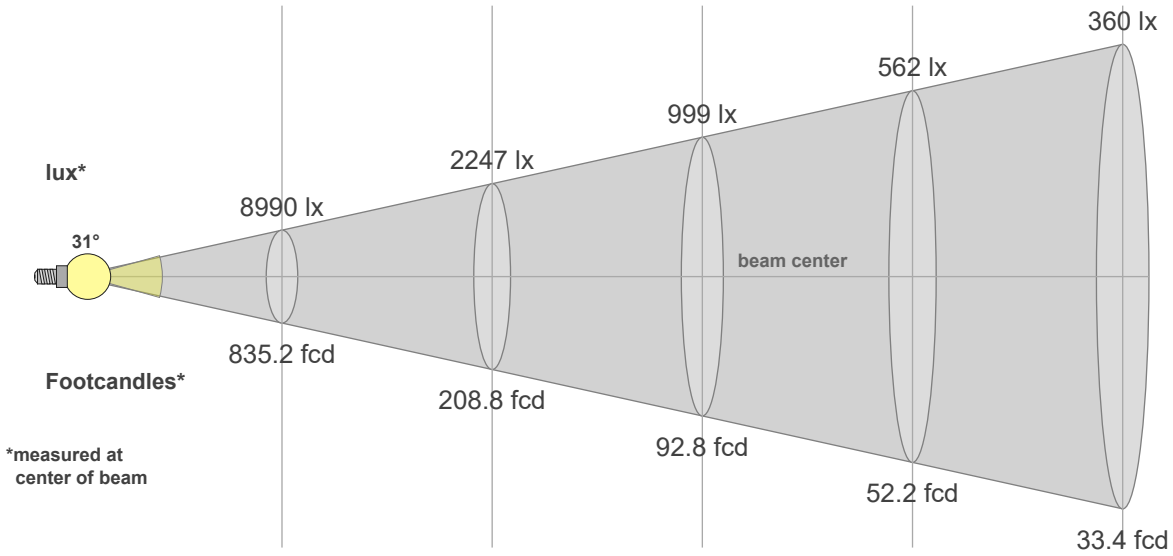
Peak illuminance: 999 lx
Mounting height: 3 m
Number of c-planes: 36

Photometric Test Report

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

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)	0.6 m	1.1 m	1.7 m	2.2 m	2.8 m
Beam width (feet)	1.8 ft	3.7 ft	5.5 ft	7.4 ft	9.2 ft

Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-30-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
8990	2247	999	562	360	250	183	140	111	90	74	62	53	46	40	35	31	28	25	22	lux
835.2	208.8	92.8	52.2	33.4	23.2	17	13	10.3	8.4	6.9	5.8	4.9	4.3	3.7	3.3	2.9	2.6	2.3	2.1	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
8990	8913	8680	8274	7698	6968	6127	5229	4345	3538	2850	2286	1832	1475	1192	966	786	641	523	426	cd
100%	99%	97%	92%	86%	78%	68%	58%	48%	39%	32%	25%	20%	16%	13%	11%	9%	7%	6%	5%	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
8990	8913	8680	8274	7698	6968	6127	5229	4345	3538	2850	2286	1832	1475	1192	966	786	641	523	426	cd
100%	99%	97%	92%	86%	78%	68%	58%	48%	39%	32%	25%	20%	16%	13%	11%	9%	7%	6%	5%	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
8990	8913	8680	8274	7698	6968	6127	5229	4345	3538	2850	2286	1832	1475	1192	966	786	641	523	426	cd
100%	99%	97%	92%	86%	78%	68%	58%	48%	39%	32%	25%	20%	16%	13%	11%	9%	7%	6%	5%	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
8990	8913	8680	8274	7698	6968	6127	5229	4345	3538	2850	2286	1832	1475	1192	966	786	641	523	426	cd
100%	99%	97%	92%	86%	78%	68%	58%	48%	39%	32%	25%	20%	16%	13%	11%	9%	7%	6%	5%	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

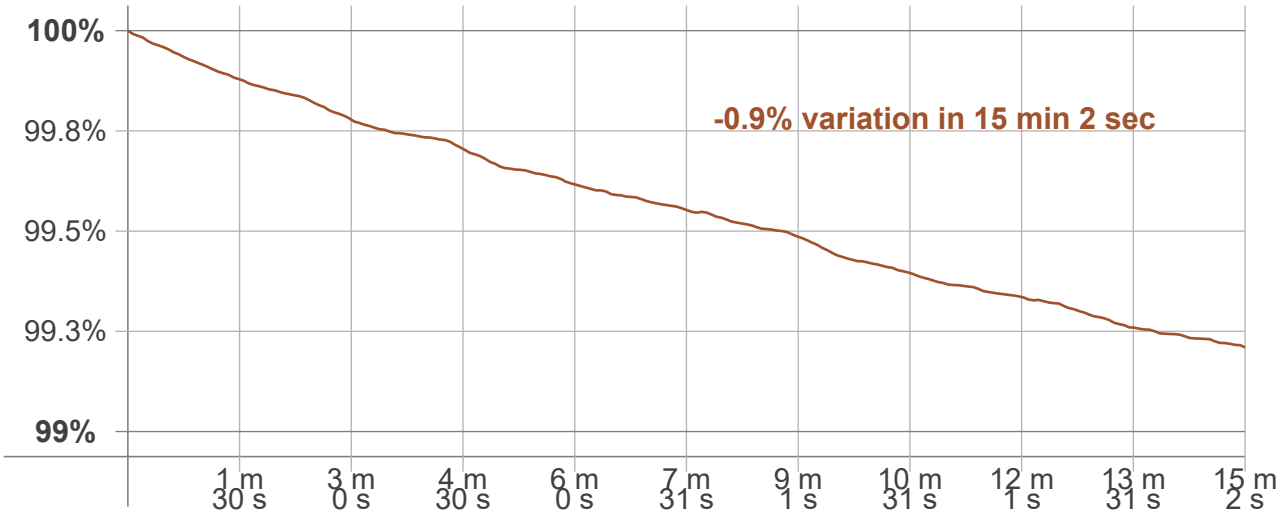
Efficiency

Radiated power efficiency	14.02
Lumen efficiency	27.28 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	3545 lm
Warmup variation	-0.8569%	Output change	-28.395 lm
		Output end	3516 lm

Stabilization Curve



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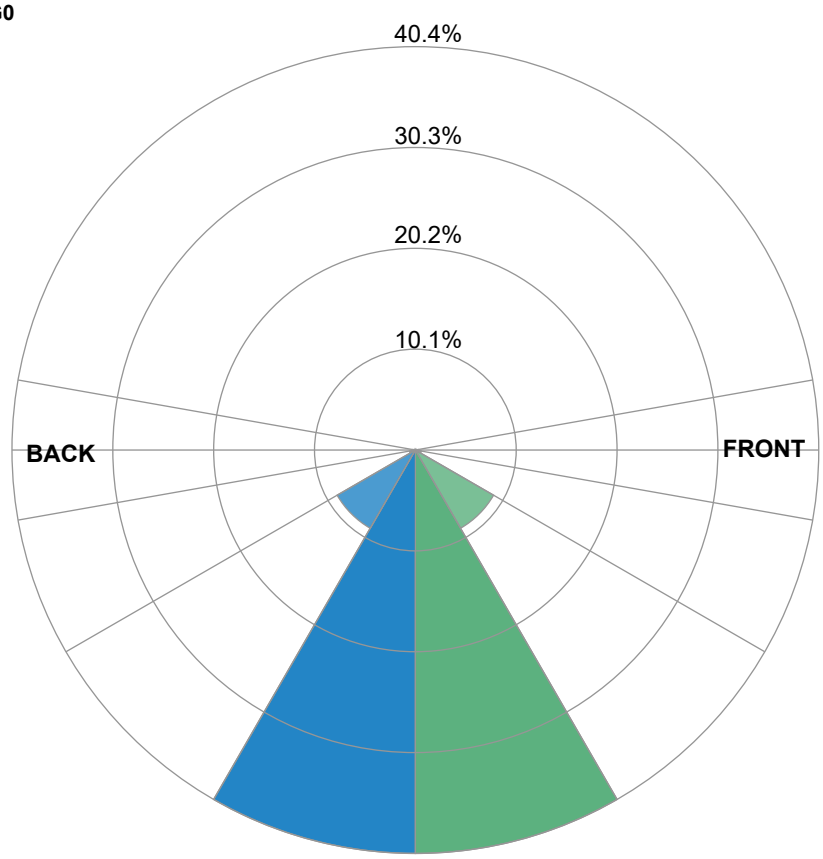
FL200-G2-XXX-RGBW3083-OM-30-INF-XXXXX-X (R)

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

Forward Light			
Low (0-30°)	1420	lm	40.4%
Medium (30-60°)	318	lm	9.04%
High (60-80°)	21.0	lm	0.598%
Very High (80-90°)	0.0000865	lm	0.00000246%
Back Light			
Low (0-30°)	1420	lm	40.4%
Medium (30-60°)	318	lm	9.04%
High (60-80°)	21.0	lm	0.598%
Very High (80-90°)	0.0000865	lm	0.00000246%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	3516	lm	100%

BUG RATING B3 U0 G0