Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-30-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.25-8832-VO
Measurement date	2026-05-25

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	1.50°
Input Power	128.9 W

Electrical Data

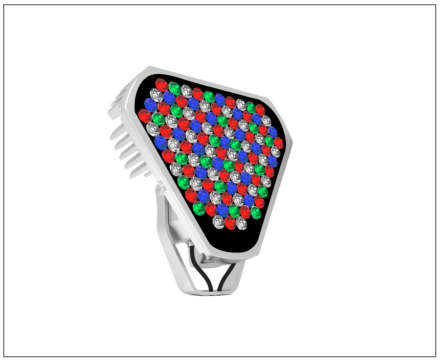
Input Power	128.9 W
Input Voltage	381.4 V DC
Input Current	0.34 A
Power Factor	1.00

Tested Light Source

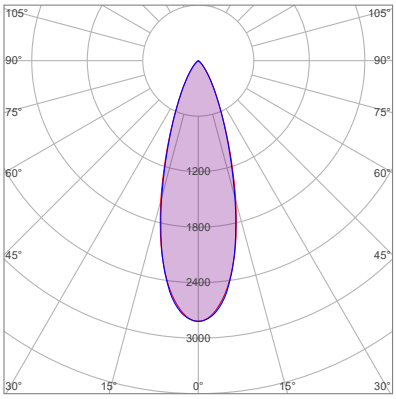
Product family	FL200-G2
Luminaire configuration	FL200-G2-XXX-RGBW3083-OM-30-INF-XXXXX-X (B)
Manufacturer	GVA Lighting, Inc.
Size (width x length x height)	106 mm 0 mm x 430 mm

Main Light Measurement Results

Output – Total Lumen	1076 - 0% / 100%
Efficiency	8.346 lm/W
Peak Intensity	2815
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	32.4°
Beam Angle (FWHM) | C90/270	31.8°
Field Angle (10%) | C0/180	62.0°Unit: 0-100% of peak intensity
Optical Power	25399 mW
Peak Wavelength	454 nm
Dominant Wavelength	458 nm

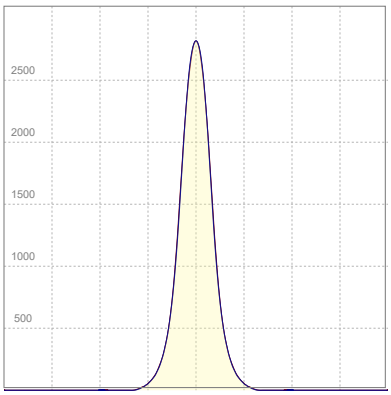


Polar Light Distribution Diagram
Unit: 0-100% of peak intensity

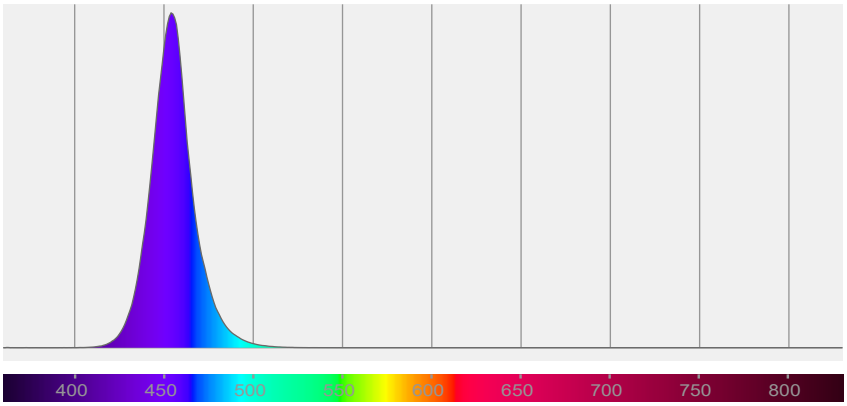


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

NaN K

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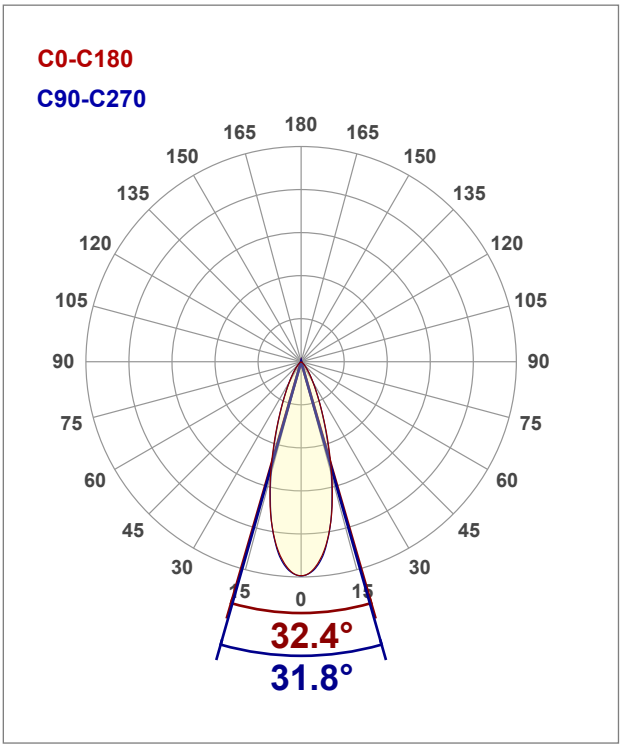
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	1076 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	2815 cd
Beam Angle (50%-FWHM)	32.1°

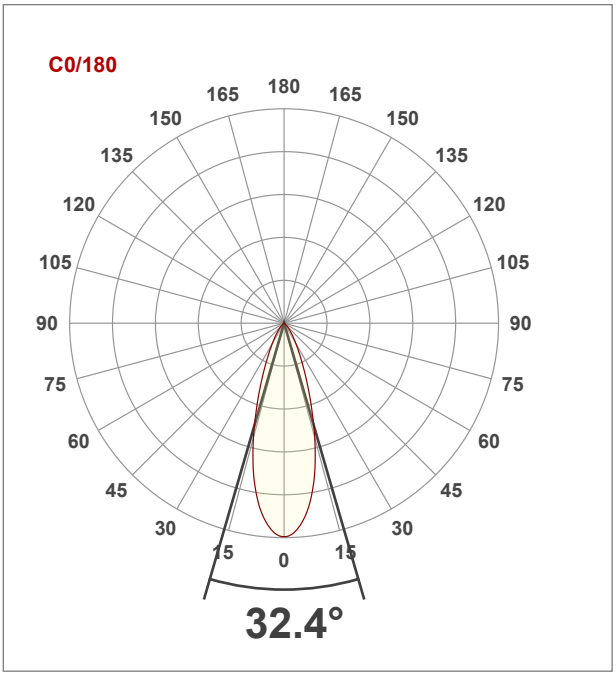
EU Ecodesign parameters

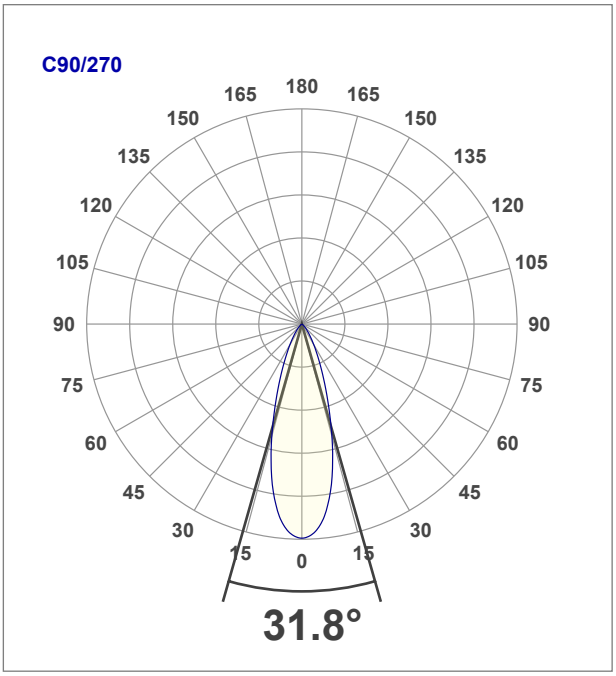
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	1053 lm
Ecodesign Energy Class	G

Intensity Ratio

In 120° cone	100%
In 90° cone	97.89%

Angular Distribution





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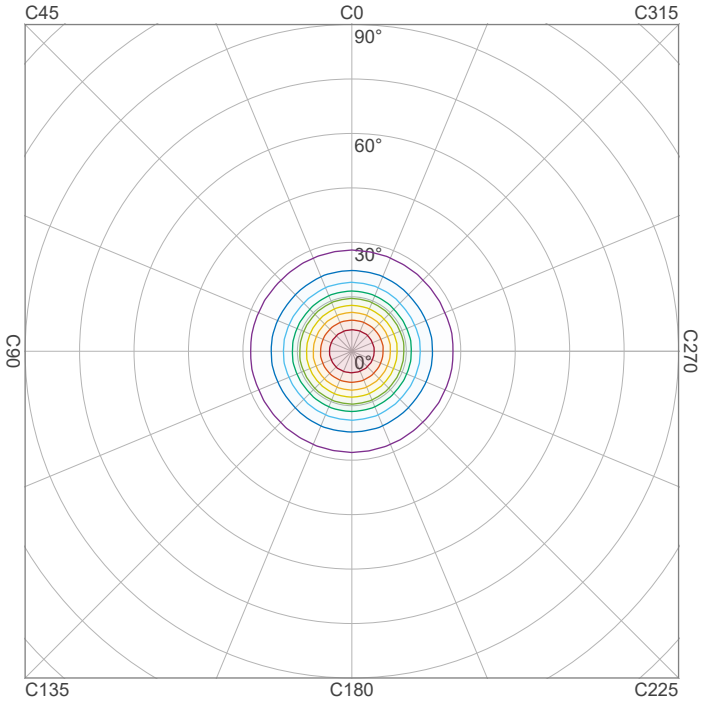
FL200-G2-XXX-RGBW3083-OM-30-INF-XXXXX-X (B)

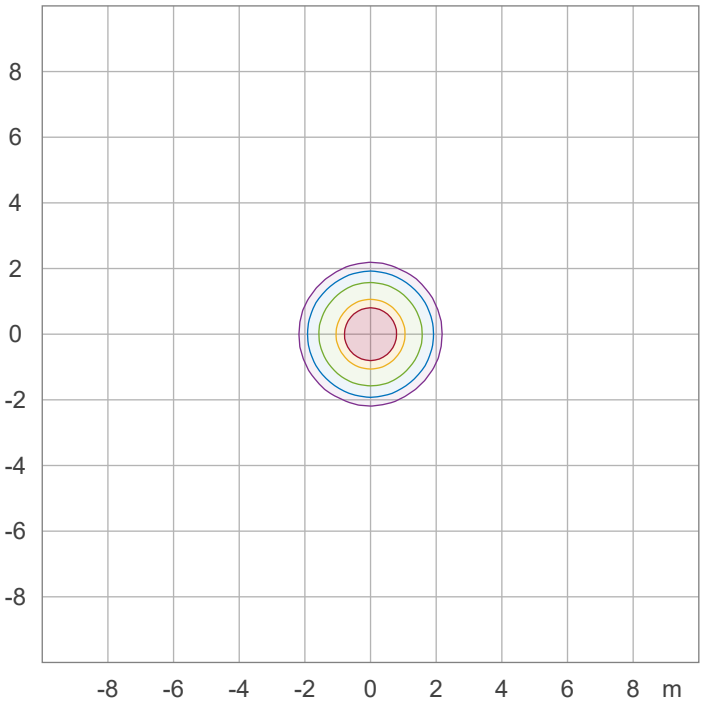
Iso-intensity Diagram (Iso-candela)



90 %	2530.2 cd
80 %	2249.1 cd
70 %	1968.0 cd
60 %	1686.8 cd
50 %	1405.7 cd
40 %	1124.6 cd
30 %	843.4 cd
20 %	562.3 cd
10 %	281.1 cd

Peak intensity: 2811.4 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	156 lx
30.0 %	93.7 lx
10.0 %	31.2 lx
5.0 %	15.6 lx
3.0 %	9.37 lx

Peak illuminance: 312 lx
Mounting height: 3 m
Number of c-planes: 36

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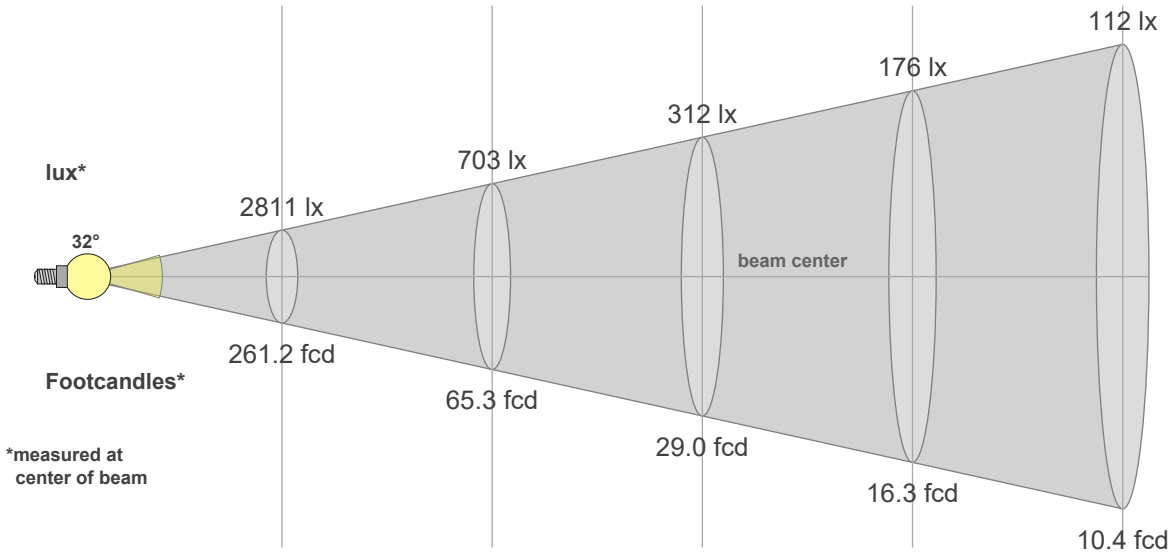
FL200-G2-XXX-RGBW3083-OM-30-INF-XXXXX-X (B)

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	2.3 m	2.9 m
Beam width (feet)	1.9 ft	3.8 ft	5.7 ft	7.5 ft	9.4 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
2811	703	312	176	112	78	57	44	35	28	23	20	17	14	12	11	10	9	8	7	lux
261.2	65.3	29	16.3	10.4	7.3	5.3	4.1	3.2	2.6	2.2	1.8	1.5	1.3	1.2	1	0.9	0.8	0.7	0.7	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
2811	2786	2705	2575	2406	2197	1957	1694	1430	1174	953	762	610	486	391	313	252	205	163	128	cd
100%	99%	96%	92%	86%	78%	70%	60%	51%	42%	34%	27%	22%	17%	14%	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
2811	2792	2721	2597	2419	2197	1938	1666	1392	1145	930	751	605	485	390	314	252	198	160	125	cd
100%	99%	97%	92%	86%	78%	69%	59%	50%	41%	33%	27%	22%	17%	14%	11%	9%	7%	6%	4%	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
2811	2786	2705	2575	2406	2197	1957	1694	1430	1174	953	762	610	486	391	313	252	205	163	128	cd
100%	99%	96%	92%	86%	78%	70%	60%	51%	42%	34%	27%	22%	17%	14%	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
2811	2792	2721	2597	2419	2197	1938	1666	1392	1145	930	751	605	485	390	314	252	198	160	125	cd
100%	99%	97%	92%	86%	78%	69%	59%	50%	41%	33%	27%	22%	17%	14%	11%	9%	7%	6%	4%	of 0°val

Photometric Test Report

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

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

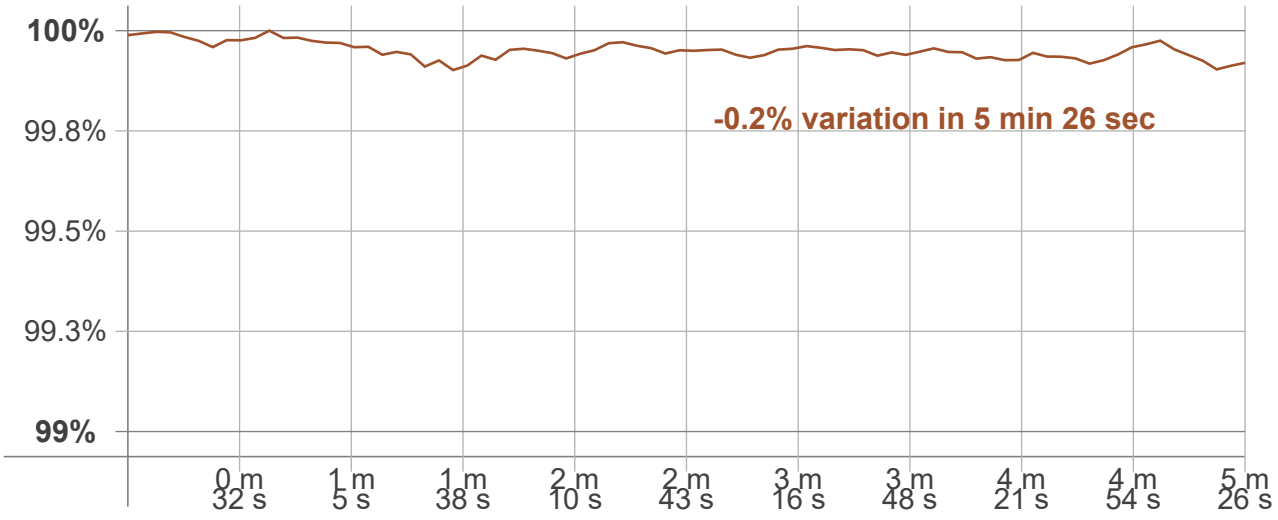
Efficiency

Radiated power efficiency	19.7
Lumen efficiency	8.346 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	1076 lm
Warmup variation	-0.2001%	Output change	-0.5342 lm
		Output end	1076 lm

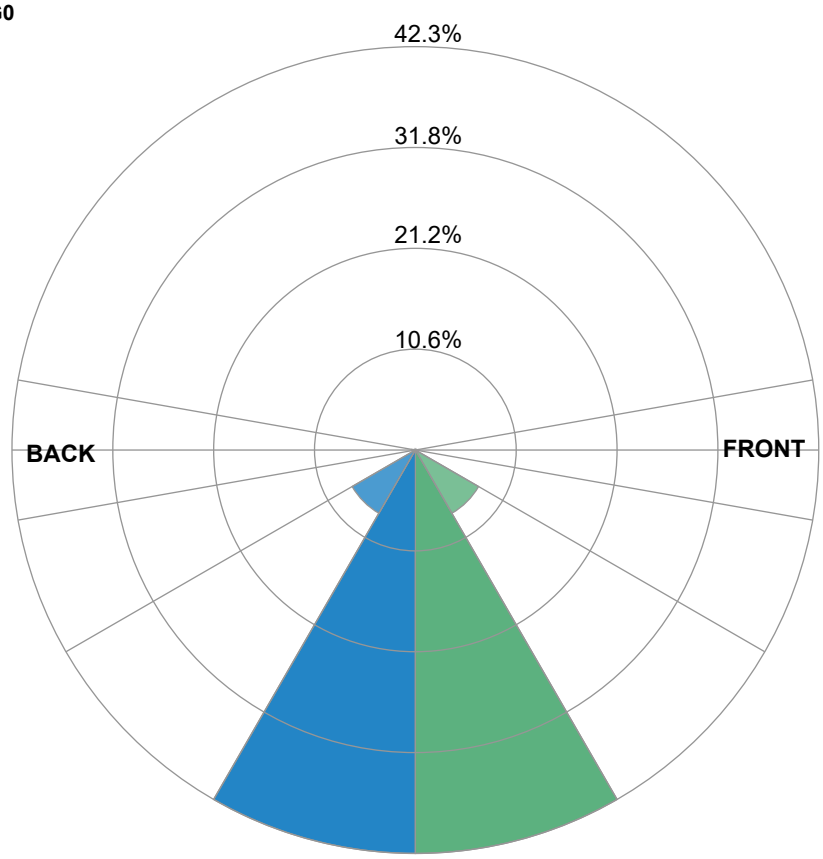
Stabilization Curve



Photometric Test Report

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

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

Forward Light			
Low (0-30°)	456	lm	42.3%
Medium (30-60°)	82.4	lm	7.66%
High (60-80°)	0.0102	lm	0.000949%
Very High (80-90°)	0	lm	0%
Back Light			
Low (0-30°)	456	lm	42.3%
Medium (30-60°)	82.4	lm	7.66%
High (60-80°)	0.0102	lm	0.000949%
Very High (80-90°)	0	lm	0%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	1076	lm	100%

BUG RATING B1 U0 G0