Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-10L-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.02-9277-VO
Measurement date	2026-06-02

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	0.40°
Input Power	129 W

Electrical Data

Input Power	129 W
Input Voltage	381.6 V DC
Input Current	0.34 A
Power Factor	1.00

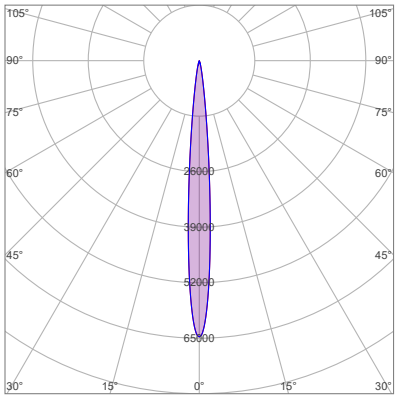
Tested Light Source

Product family	FL200-G2
Luminaire configuration	FL200-G2-XXX-RGBW3083-OM-10L-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

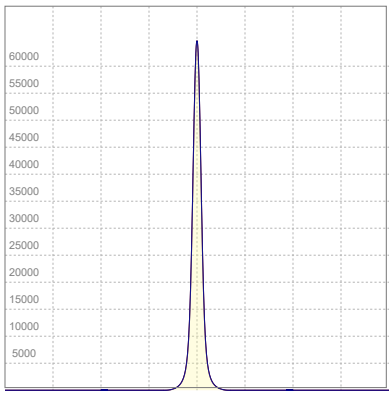
Output – Total Lumen	2314 - 0% / 100%
Efficiency	17.94 lm/W
Peak Intensity	64640
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	8.9°
Beam Angle (FWHM) | C90/270	8.9°
Field Angle (10%) | C0/180	18.0°Unit: 0-100% of peak intensity
Optical Power	11984 mW
Peak Wavelength	633 nm
Dominant Wavelength	622 nm

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

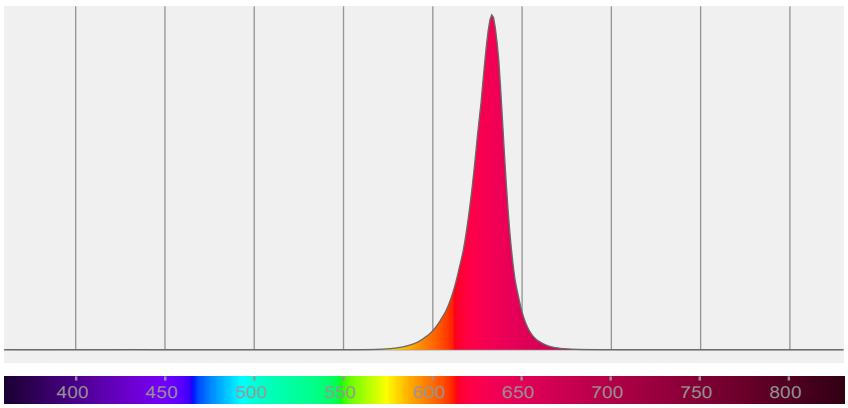


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

NaN K

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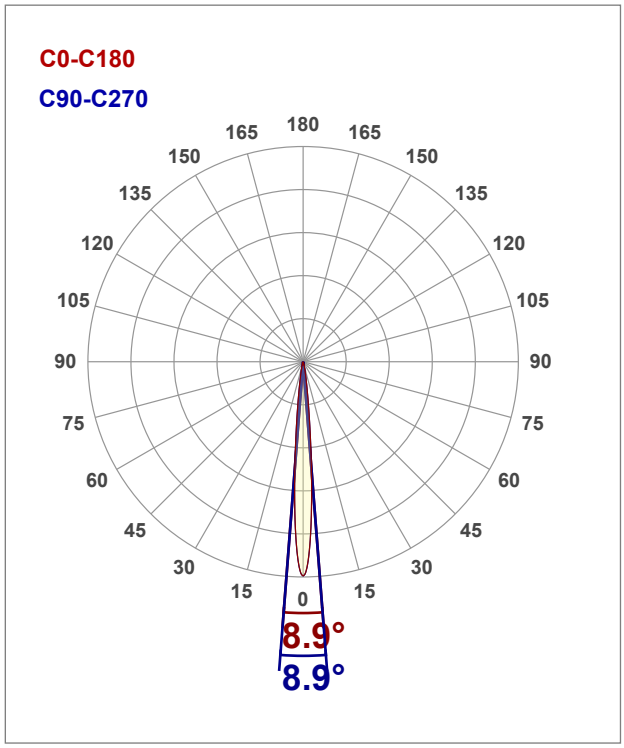
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	2314 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	64640 cd
Beam Angle (50%-FWHM)	8.9°

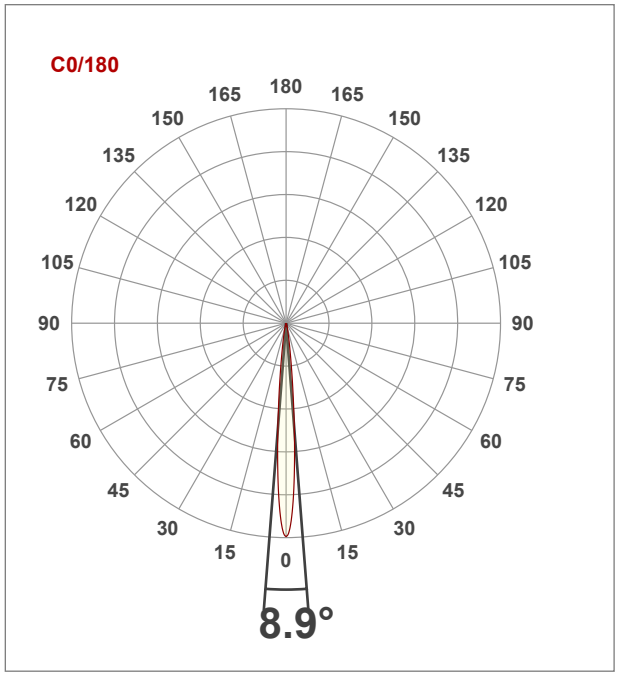
EU Ecodesign parameters

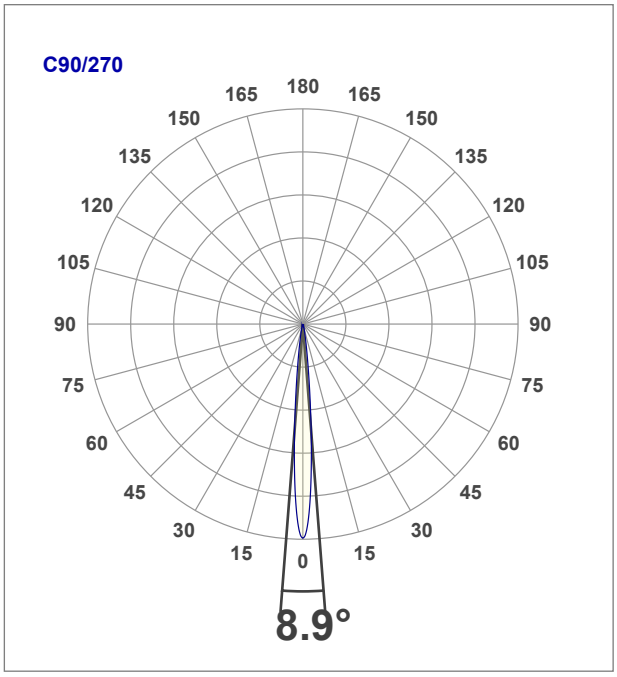
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	2314 lm
Ecodesign Energy Class	G

Intensity Ratio

In 120° cone	100%
In 90° cone	100%

Angular Distribution





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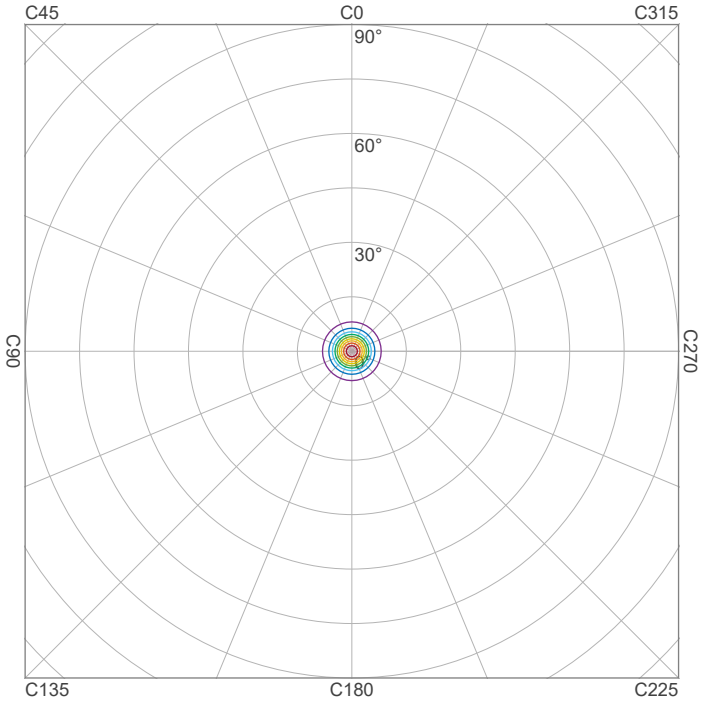
Iso-intensity Diagram (Iso-candela)

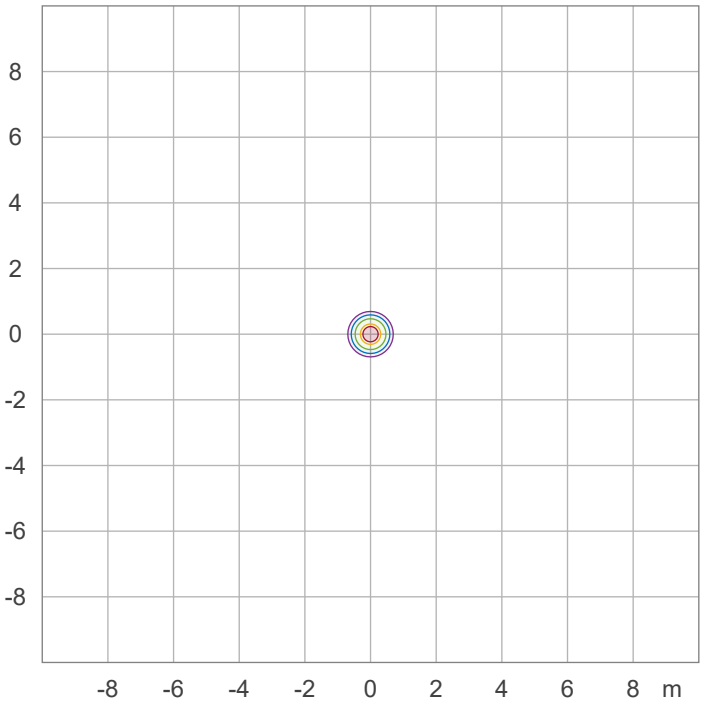


90 %	58175.9 cd
80 %	51711.9 cd
70 %	45247.9 cd
60 %	38783.9 cd
50 %	32319.9 cd
40 %	25855.9 cd
30 %	19392.0 cd
20 %	12928.0 cd
10 %	6464.0 cd

Peak intensity: 64639.9 cd

Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	3591 lx
30.0 %	2155 lx
10.0 %	718 lx
5.0 %	359 lx
3.0 %	215 lx

Peak illuminance: 7182 lx

Mounting height: 3 m

Number of c-planes: 36

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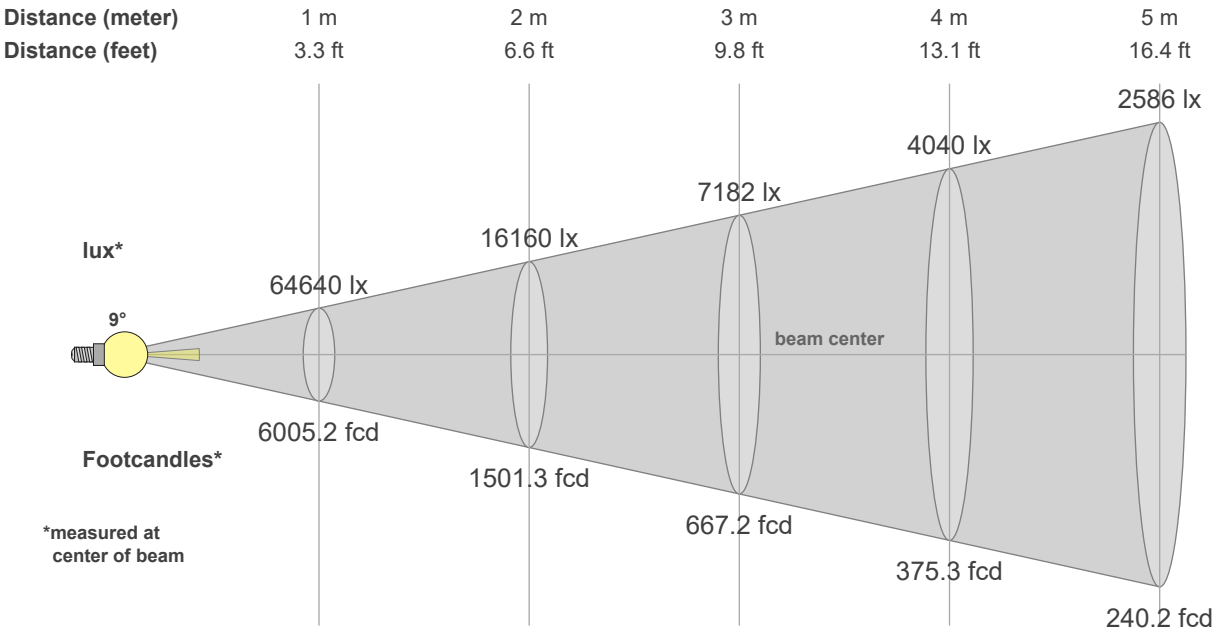
Beam details



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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
64640	16160	7182	4040	2586	1796	1319	1010	798	646	534	449	382	330	287	252	224	200	179	162	lux
6005.2	1501.3	667.2	375.3	240.2	166.8	122.6	93.8	74.1	60.1	49.6	41.7	35.5	30.6	26.7	23.5	20.8	18.5	16.6	15	fc

Intensities in 0° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°	γ
64.6k	62.4k	56.2k	47.0k	36.8k	27.0k	19.0k	13.1k	9.1k	6.4k	4.7k	3.5k	2.7k	2.1k	1.7k	1.3k	1.1k	0.8k	0.7k	0.5k	cd
100%	97%	87%	73%	57%	42%	29%	20%	14%	10%	7%	5%	4%	3%	3%	2%	2%	1%	1%	1%	of 0°val

Intensities in 90° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°	γ
64.6k	62.4k	56.2k	47.0k	36.8k	27.0k	19.0k	13.1k	9.1k	6.4k	4.7k	3.5k	2.7k	2.1k	1.7k	1.3k	1.1k	0.8k	0.7k	0.5k	cd
100%	97%	87%	73%	57%	42%	29%	20%	14%	10%	7%	5%	4%	3%	3%	2%	2%	1%	1%	1%	of 0°val

Intensities in 180° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°	γ
64.6k	62.4k	56.2k	47.0k	36.8k	27.0k	19.0k	13.1k	9.1k	6.4k	4.7k	3.5k	2.7k	2.1k	1.7k	1.3k	1.1k	0.8k	0.7k	0.5k	cd
100%	97%	87%	73%	57%	42%	29%	20%	14%	10%	7%	5%	4%	3%	3%	2%	2%	1%	1%	1%	of 0°val

Intensities in 270° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°	γ
64.6k	62.4k	56.2k	47.0k	36.8k	27.0k	19.0k	13.1k	9.1k	6.4k	4.7k	3.5k	2.7k	2.1k	1.7k	1.3k	1.1k	0.8k	0.7k	0.5k	cd
100%	97%	87%	73%	57%	42%	29%	20%	14%	10%	7%	5%	4%	3%	3%	2%	2%	1%	1%	1%	of 0°val

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Power details

Input power	
Frequency of input power	0.0 Hz
Power feed to light source	129 W
RMS Input voltage feed V,RMS	381.6 V
RMS Input current feed I,RMS	0.34 A
Volt-Amp or apparent power = V,RMS*I,RMS	129.0 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

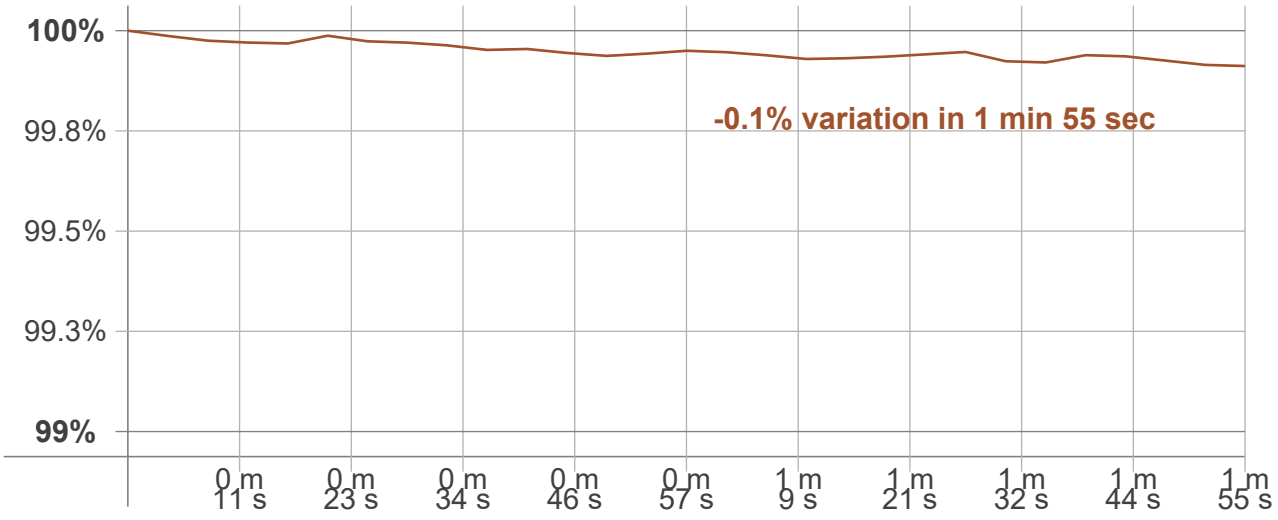
Efficiency

Radiated power efficiency	9.291
Lumen efficiency	17.94 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	2316 lm
Warmup variation	-0.0965%	Output change	-1.1966 lm
		Output end	2314 lm

Stabilization Curve



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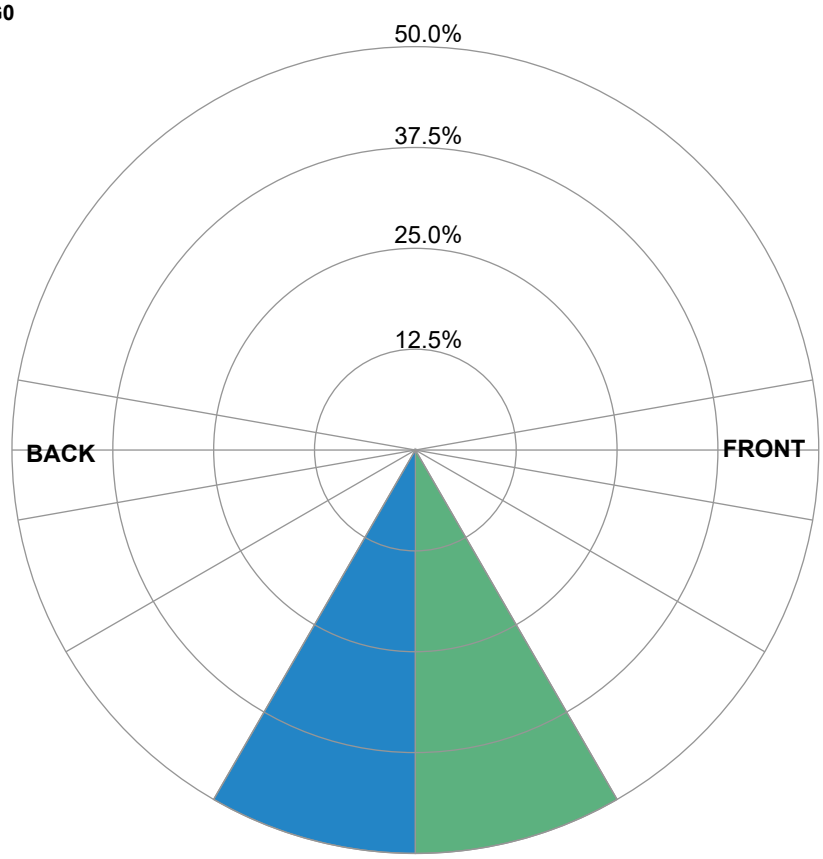
FL200-G2-XXX-RGBW3083-OM-10L-INF-XXXXX-X (R)

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

Forward Light			
Low (0-30°)	1160	lm	50.0%
Medium (30-60°)	0.0404	lm	0.00174%
High (60-80°)	0	lm	0%
Very High (80-90°)	0	lm	0%
Back Light			
Low (0-30°)	1160	lm	50.0%
Medium (30-60°)	0.0404	lm	0.00174%
High (60-80°)	0	lm	0%
Very High (80-90°)	0	lm	0%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	2314	lm	100%

BUG RATING B3 U0 G0