Photometric Test Report

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

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.25-8834-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

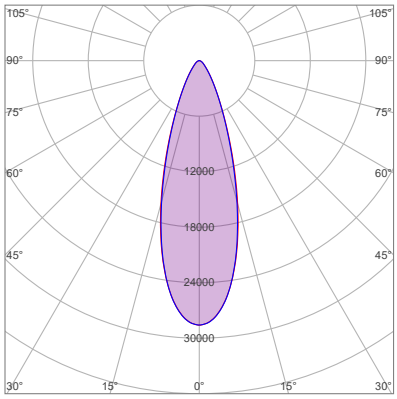
Tested Light Source

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

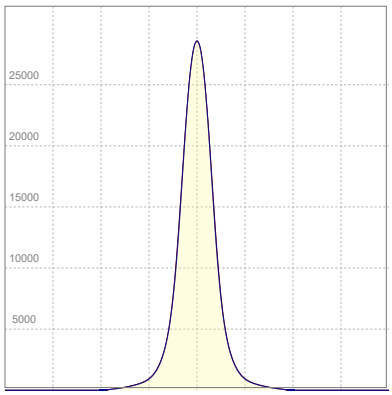
Main Light Measurement Results

Output – Total Lumen	12476 - 0.057% / 99.94%
Efficiency	96.78 lm/W
Peak Intensity	28569
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	32.7°
Beam Angle (FWHM) | C90/270	32.2°
Field Angle (10%) | C0/180	64.2°Unit: 0-100% of peak intensity
Optical Power	37387 mW
Peak Wavelength	602 nm
Dominant Wavelength	584 nm

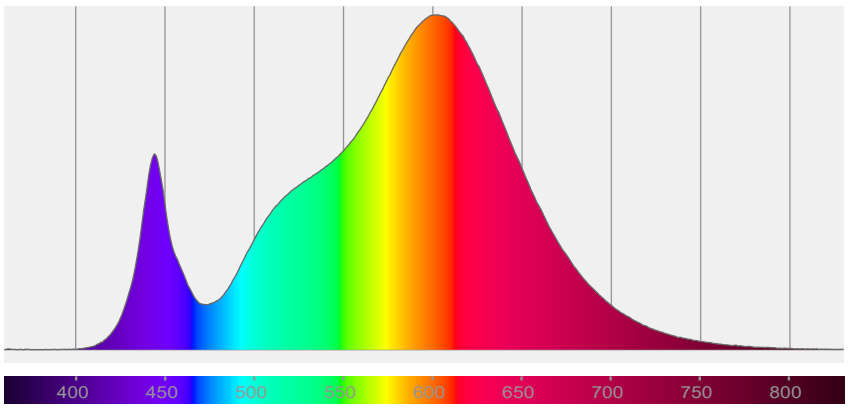
Polar Light Distribution Diagram
Unit: 0-100% of peak intensity



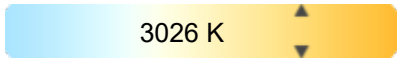
Linear distribution Diagram



Spectral Distribution



Color Temperature



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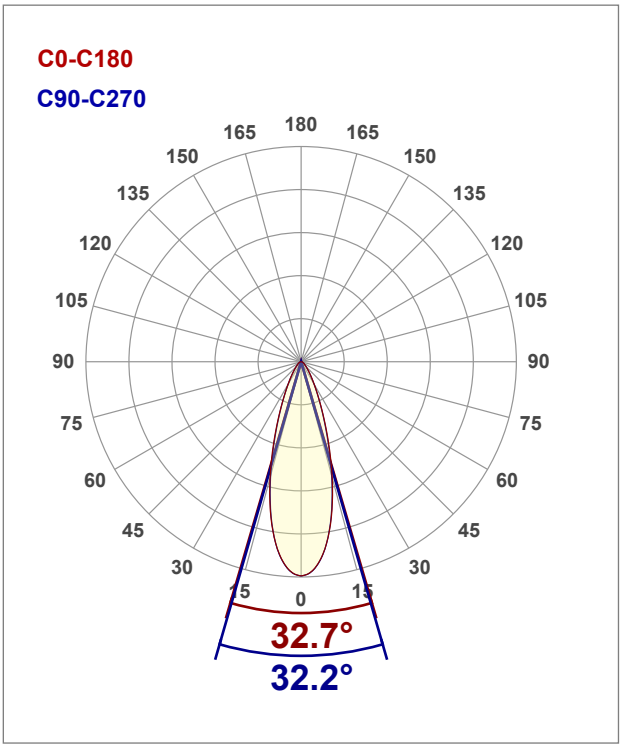
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	12476 lm
Lumen Up% / Down%	0.057% / 99.94%
Peak Intensity	28569 cd
Beam Angle (50%-FWHM)	32.4°

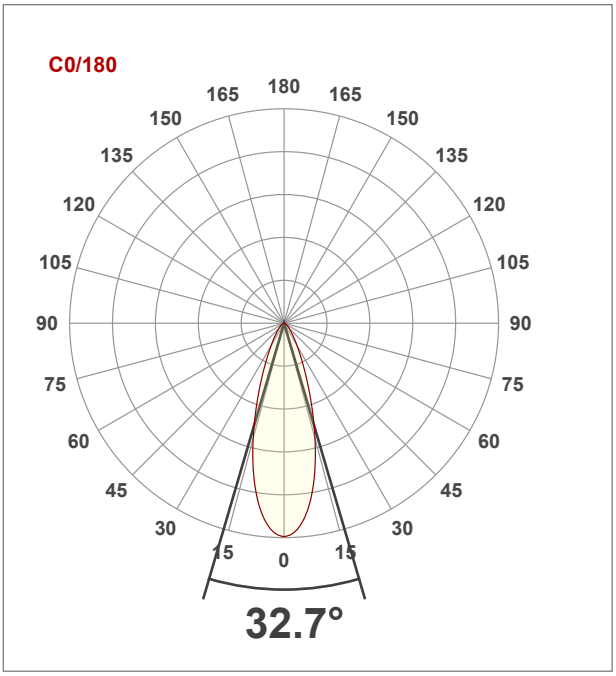
EU Ecodesign parameters

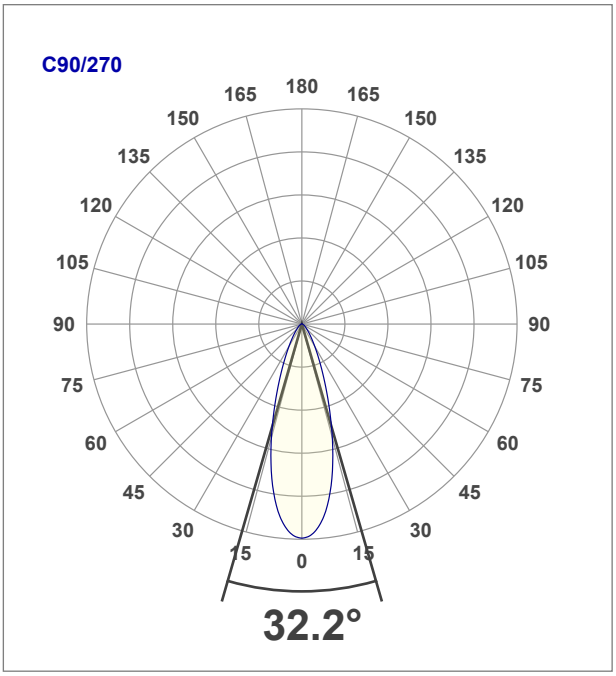
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	11.23 lm
Ecodesign Energy Class	F

Intensity Ratio

In 120° cone	96.19%
In 90° cone	89.98%

Angular Distribution





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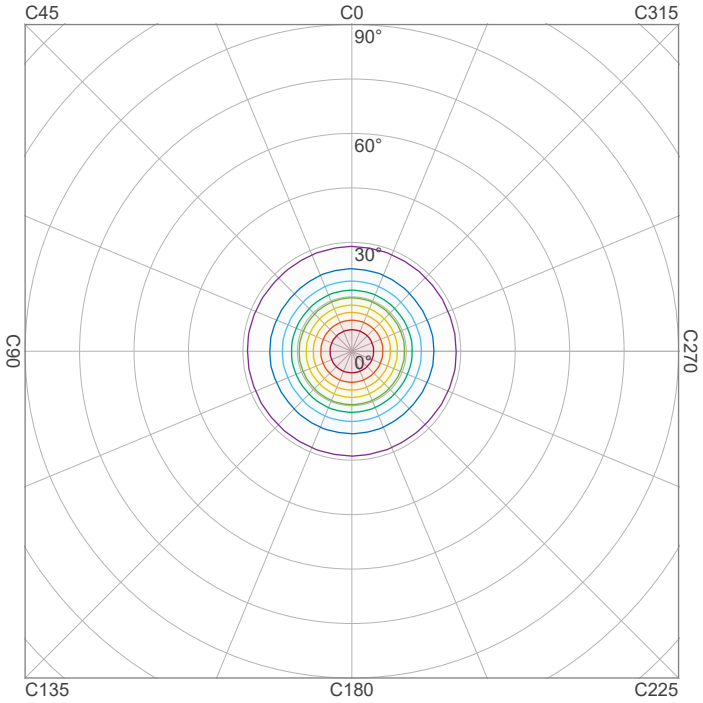
FL200-G2-XXX-RGBW3083-OM-30-INF-XXXXX-X (W)

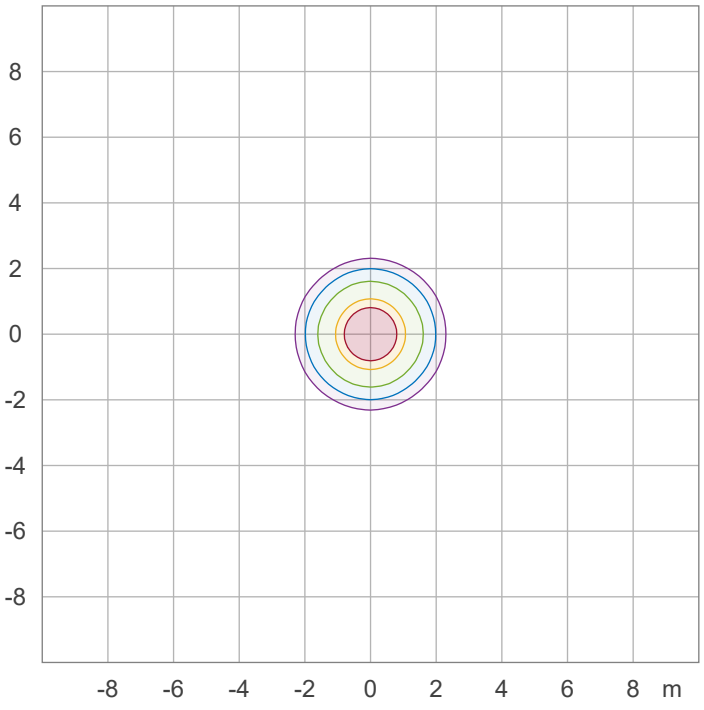
Iso-intensity Diagram (Iso-candela)



90 %	25690.3 cd
80 %	22835.8 cd
70 %	19981.4 cd
60 %	17126.9 cd
50 %	14272.4 cd
40 %	11417.9 cd
30 %	8563.4 cd
20 %	5709.0 cd
10 %	2854.5 cd

Peak intensity: 28544.8 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	1586 lx
30.0 %	951 lx
10.0 %	317 lx
5.0 %	159 lx
3.0 %	95.1 lx

Peak illuminance: 3172 lx
Mounting height: 3 m
Number of c-planes: 36

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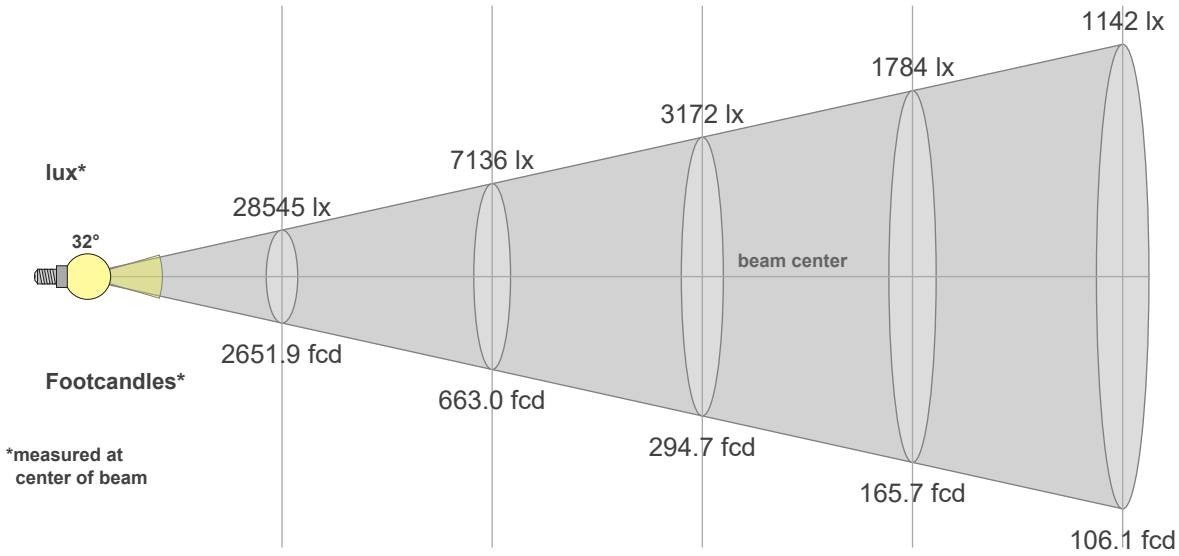
Beam details

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)	0.6 m	1.2 m	1.7 m	2.3 m	2.9 m
Beam width (feet)	1.9 ft	3.8 ft	5.7 ft	7.6 ft	9.5 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
28545	7136	3172	1784	1142	793	583	446	352	285	236	198	169	146	127	112	99	88	79	71	lux
2651.9	663	294.7	165.7	106.1	73.7	54.1	41.4	32.7	26.5	21.9	18.4	15.7	13.5	11.8	10.4	9.2	8.2	7.3	6.6	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
28.5k	28.3k	27.5k	26.2k	24.5k	22.3k	19.9k	17.3k	14.7k	12.2k	10.0k	8.1k	6.5k	5.2k	4.3k	3.5k	2.9k	2.4k	2.0k	1.7k	cd
100%	99%	96%	92%	86%	78%	70%	61%	52%	43%	35%	28%	23%	18%	15%	12%	10%	8%	7%	6%	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
28.5k	28.3k	27.5k	26.2k	24.5k	22.2k	19.7k	17.0k	14.4k	11.9k	9.7k	7.9k	6.4k	5.2k	4.2k	3.5k	2.8k	2.3k	1.9k	1.6k	cd
100%	99%	96%	92%	86%	78%	69%	60%	50%	42%	34%	28%	22%	18%	15%	12%	10%	8%	7%	6%	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
28.5k	28.3k	27.5k	26.2k	24.5k	22.3k	19.9k	17.3k	14.7k	12.2k	10.0k	8.1k	6.5k	5.2k	4.3k	3.5k	2.9k	2.4k	2.0k	1.7k	cd
100%	99%	96%	92%	86%	78%	70%	61%	52%	43%	35%	28%	23%	18%	15%	12%	10%	8%	7%	6%	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
28.5k	28.3k	27.5k	26.2k	24.5k	22.2k	19.7k	17.0k	14.4k	11.9k	9.7k	7.9k	6.4k	5.2k	4.2k	3.5k	2.8k	2.3k	1.9k	1.6k	cd
100%	99%	96%	92%	86%	78%	69%	60%	50%	42%	34%	28%	22%	18%	15%	12%	10%	8%	7%	6%	of 0°val

Photometric Test Report

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

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

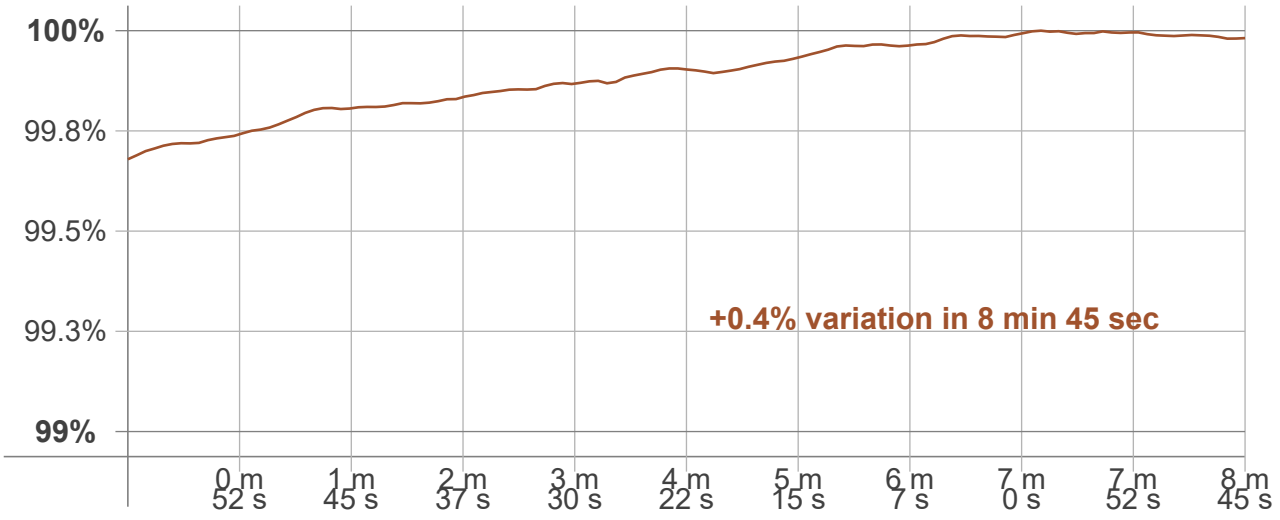
Efficiency

Radiated power efficiency	29
Lumen efficiency	96.78 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	12.44 lm
Warmup variation	0.3677%	Output change	39.6 lm
		Output end	12.48 lm

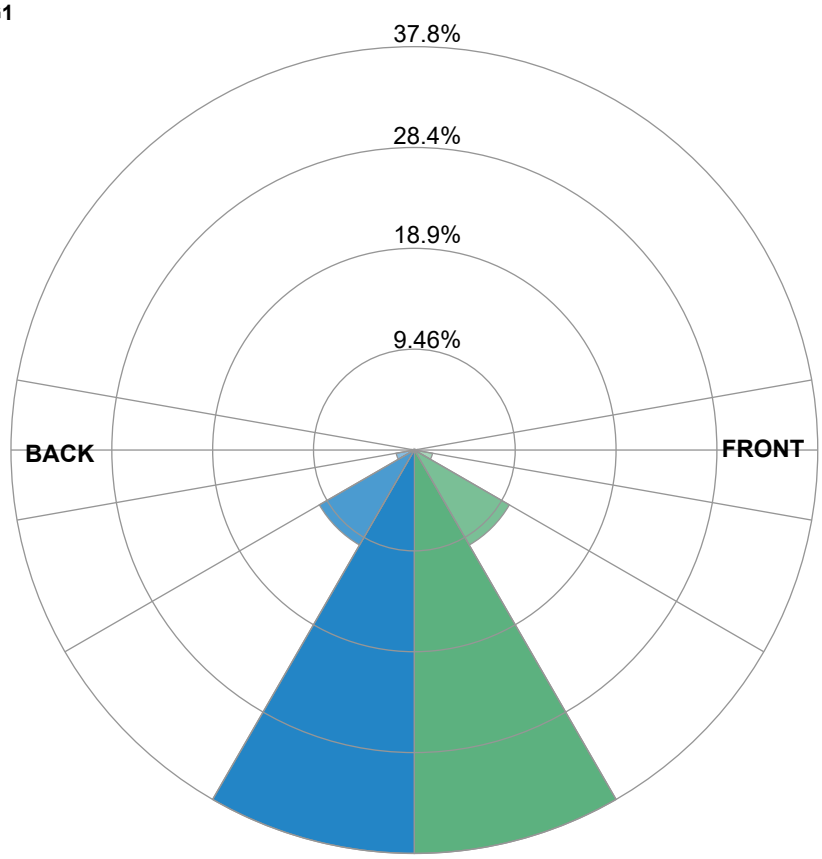
Stabilization Curve



Photometric Test Report

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

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

Forward Light			
Low (0-30°)	4720	lm	37.8%
Medium (30-60°)	1280	lm	10.3%
High (60-80°)	216	lm	1.73%
Very High (80-90°)	18.7	lm	0.150%
Back Light			
Low (0-30°)	4720	lm	37.8%
Medium (30-60°)	1280	lm	10.3%
High (60-80°)	216	lm	1.73%
Very High (80-90°)	18.7	lm	0.150%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	12.48	lm	100%

BUG RATING B4 U0 G1