Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-10-INF-XXXXX-X (ALL ON)

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.Apr.16-7921-VO
Measurement date	2026-04-16

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	0.45°
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

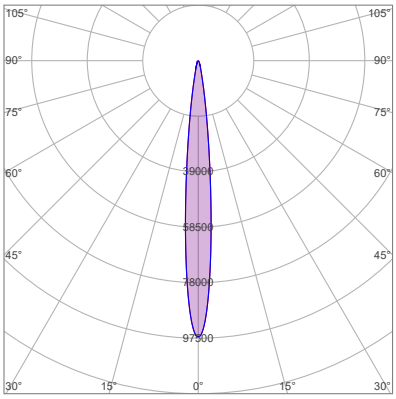
Tested Light Source

Product family	FL200-G2
Luminaire configuration	FL200-G2-XXX-RGBW3083-OM-10-INF-XXXXX-X (ALL ON)
Manufacturer	GVA Lighting, Inc.
Size (width x length x height)	106 mm 0 mm x 430 mm

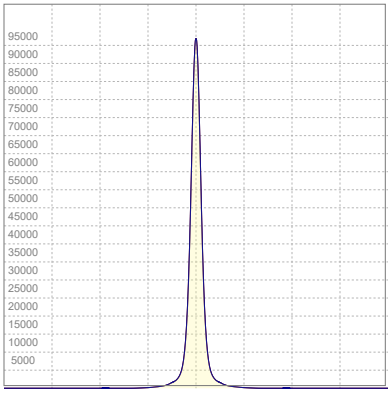
Main Light Measurement Results

Output – Total Lumen	5782 - 0% / 100%
Efficiency	44.86 lm/W
Peak Intensity	96739
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	10.5°
Beam Angle (FWHM) | C90/270	10.5°
Field Angle (10%) | C0/180	21.8°Unit: 0-100% of peak intensity
Optical Power	24382 mW
Peak Wavelength	453 nm
Dominant Wavelength	537 nm

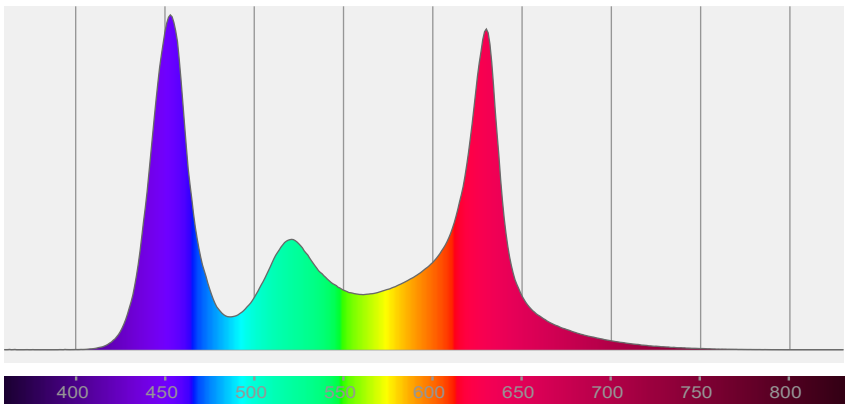
Polar Light Distribution Diagram
Unit: 0-100% of peak intensity



Linear distribution Diagram



Spectral Distribution



Color Temperature

NaN K

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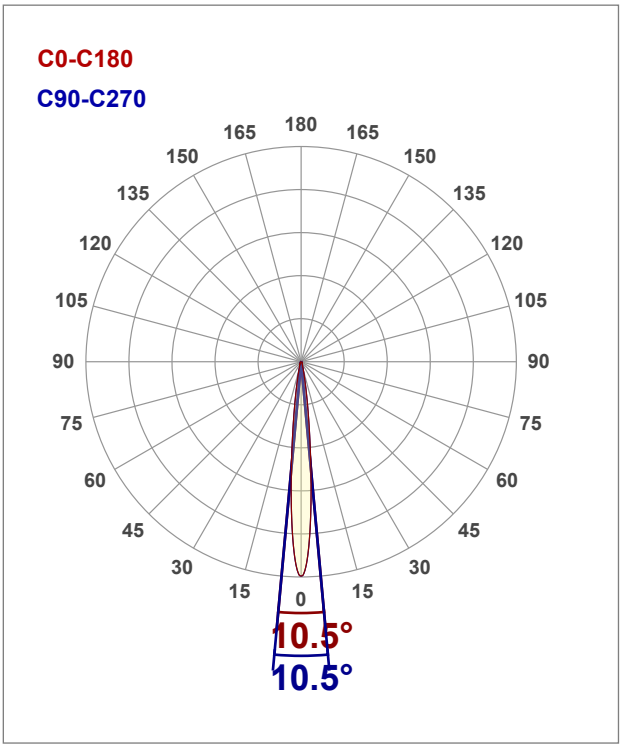
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	5782 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	96739 cd
Beam Angle (50%-FWHM)	10.5°

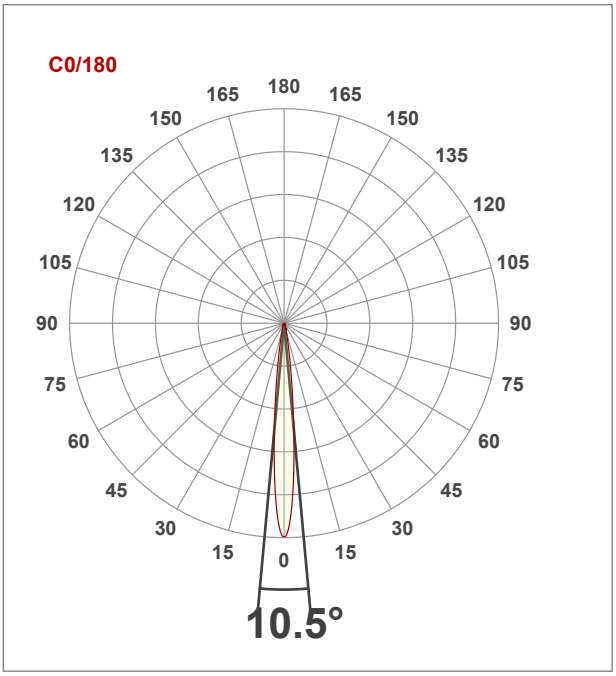
EU Ecodesign parameters

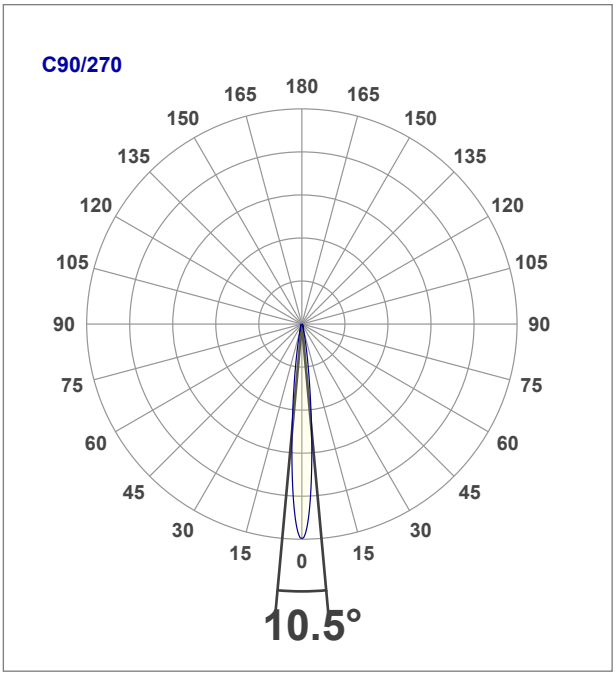
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	5696 lm
Ecodesign Energy Class	G

Intensity Ratio

In 120° cone	99.99%
In 90° cone	98.51%

Angular Distribution





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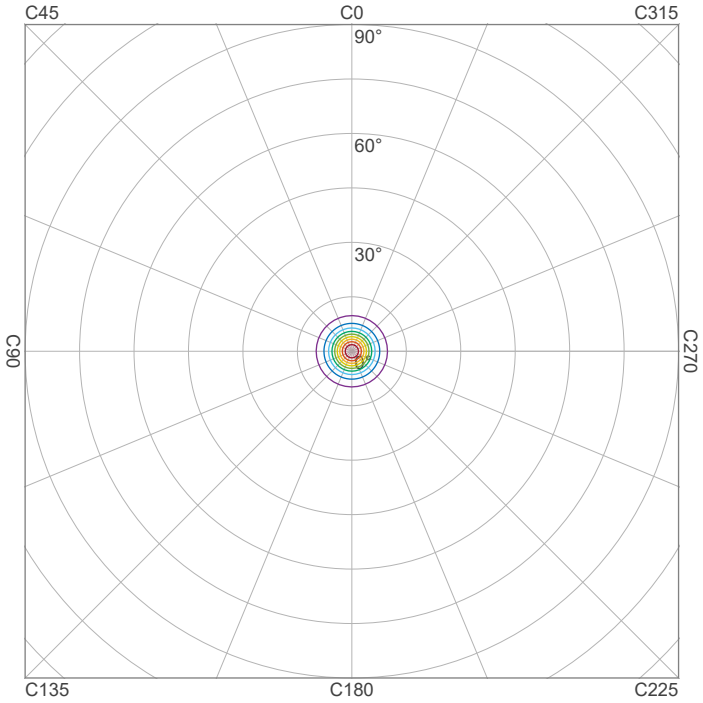
FL200-G2-XXX-RGBW3083-OM-10-INF-XXXXX-X (ALL ON)

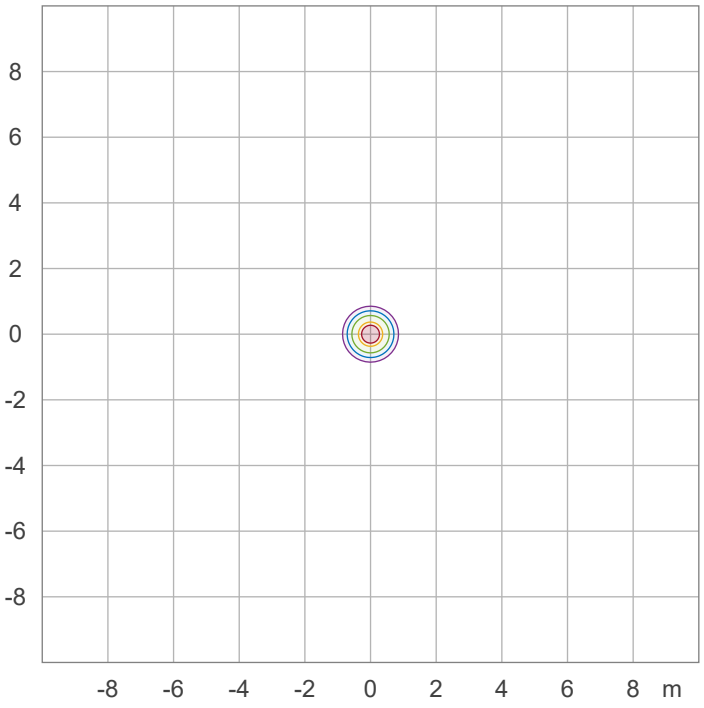
Iso-intensity Diagram (Iso-candela)



90 %	87064.7 cd
80 %	77390.8 cd
70 %	67717.0 cd
60 %	58043.1 cd
50 %	48369.3 cd
40 %	38695.4 cd
30 %	29021.6 cd
20 %	19347.7 cd
10 %	9673.9 cd

Peak intensity: 96738.5 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	5374 lx
30.0 %	3225 lx
10.0 %	1075 lx
5.0 %	537 lx
3.0 %	322 lx

Peak illuminance: 10749 lx
Mounting height: 3 m
Number of c-planes: 36

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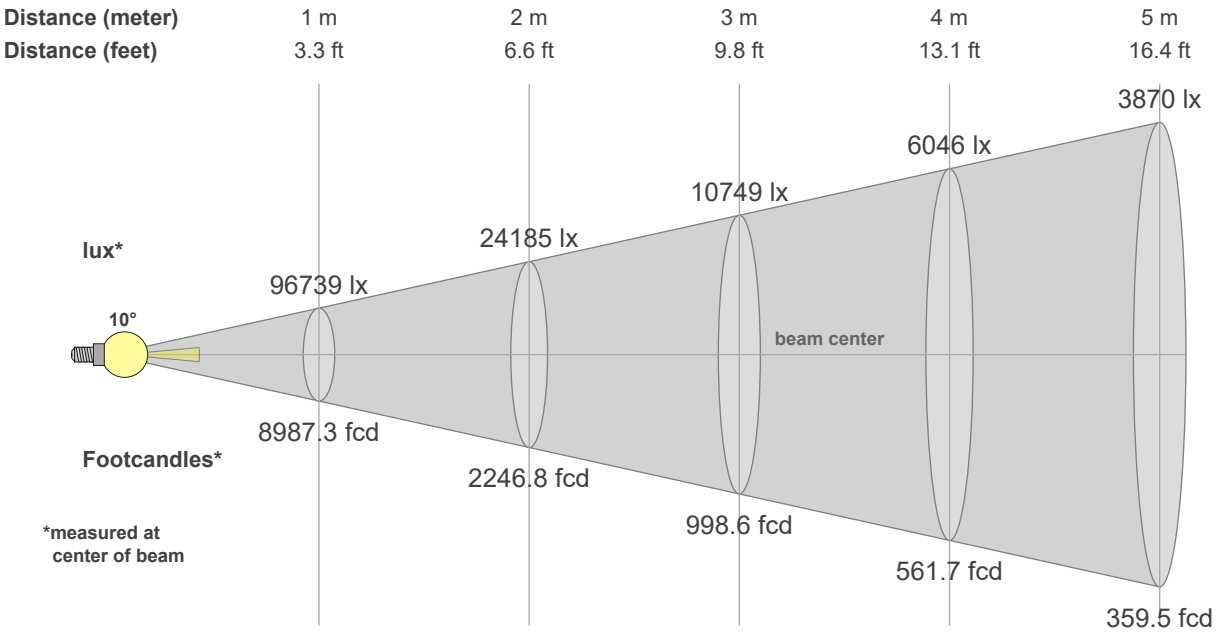
Beam details



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FL200-G2-XXX-RGBW3083-OM-10-INF-XXXXX-X (ALL ON)

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
96739	24185	10749	6046	3870	2687	1974	1512	1194	967	799	672	572	494	430	378	335	299	268	242	lux
8987.3	2246.8	998.6	561.7	359.5	249.6	183.4	140.4	111	89.9	74.3	62.4	53.2	45.9	39.9	35.1	31.1	27.7	24.9	22.5	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
96.7k	94.4k	87.2k	76.5k	63.9k	51.1k	39.6k	29.9k	22.4k	16.7k	12.5k	9.4k	7.2k	5.6k	4.5k	3.8k	3.2k	2.7k	2.4k	2.1k	cd
100%	98%	90%	79%	66%	53%	41%	31%	23%	17%	13%	10%	7%	6%	5%	4%	3%	3%	2%	2%	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
96.7k	94.4k	87.2k	76.5k	63.9k	51.1k	39.6k	29.9k	22.4k	16.7k	12.5k	9.4k	7.2k	5.6k	4.5k	3.8k	3.2k	2.7k	2.4k	2.1k	cd
100%	98%	90%	79%	66%	53%	41%	31%	23%	17%	13%	10%	7%	6%	5%	4%	3%	3%	2%	2%	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
96.7k	94.4k	87.2k	76.5k	63.9k	51.1k	39.6k	29.9k	22.4k	16.7k	12.5k	9.4k	7.2k	5.6k	4.5k	3.8k	3.2k	2.7k	2.4k	2.1k	cd
100%	98%	90%	79%	66%	53%	41%	31%	23%	17%	13%	10%	7%	6%	5%	4%	3%	3%	2%	2%	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
96.7k	94.4k	87.2k	76.5k	63.9k	51.1k	39.6k	29.9k	22.4k	16.7k	12.5k	9.4k	7.2k	5.6k	4.5k	3.8k	3.2k	2.7k	2.4k	2.1k	cd
100%	98%	90%	79%	66%	53%	41%	31%	23%	17%	13%	10%	7%	6%	5%	4%	3%	3%	2%	2%	of 0°val

Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-10-INF-XXXXX-X (ALL ON)

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

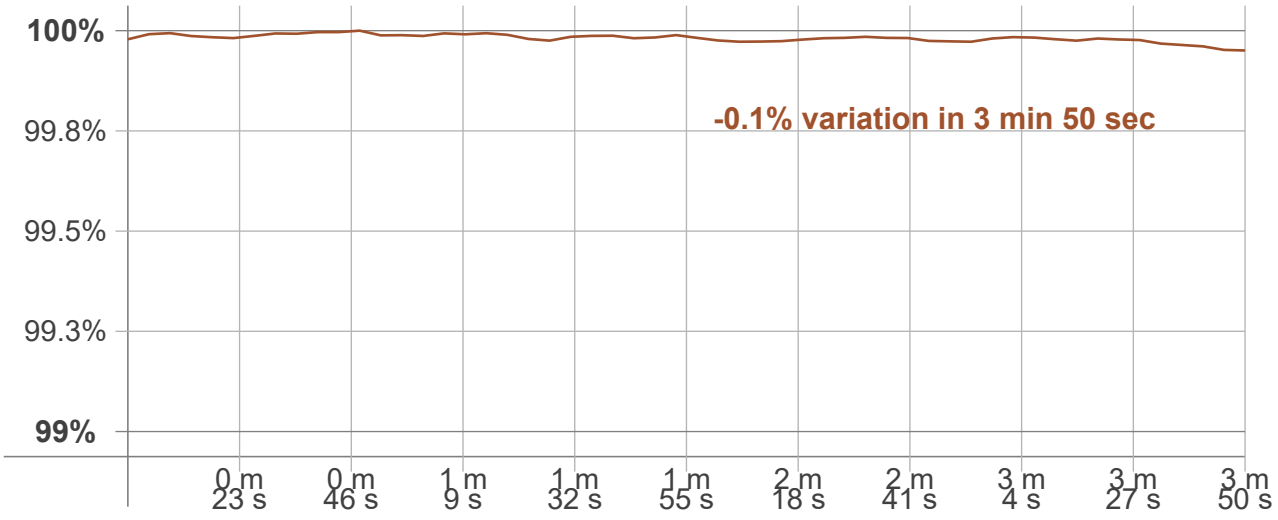
Efficiency

Radiated power efficiency	18.91
Lumen efficiency	44.86 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	5783 lm
Warmup variation	-0.0515%	Output change	-0.7125 lm
		Output end	5782 lm

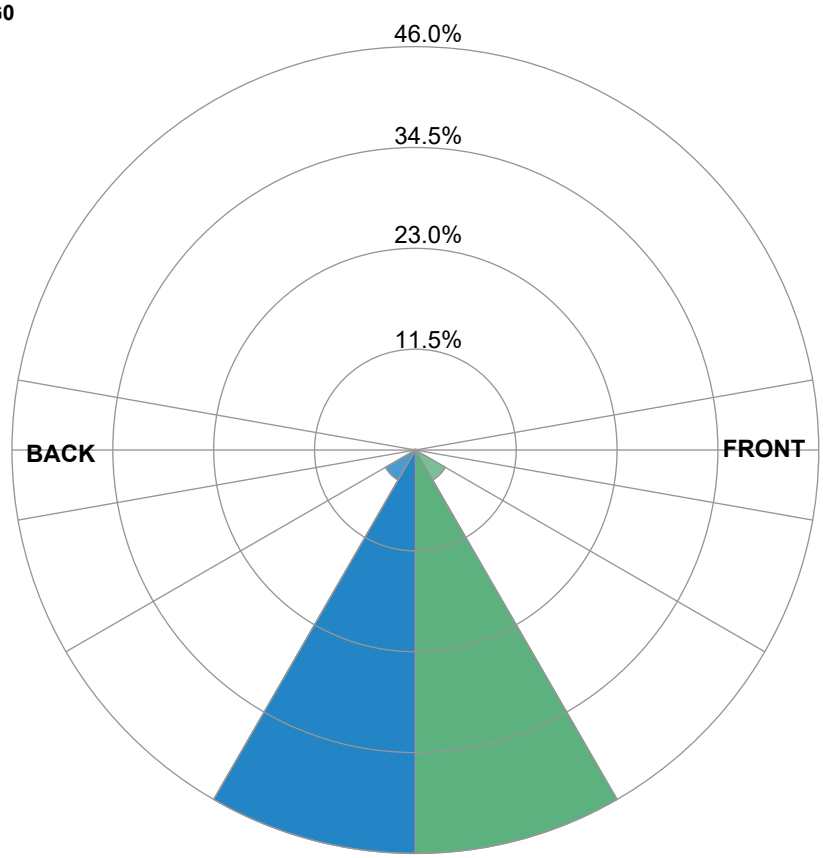
Stabilization Curve



Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-10-INF-XXXXX-X (ALL ON)

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

Forward Light			
Low (0-30°)	2660	lm	46.0%
Medium (30-60°)	229	lm	3.96%
High (60-80°)	0.451	lm	0.00781%
Very High (80-90°)	0	lm	0%
Back Light			
Low (0-30°)	2660	lm	46.0%
Medium (30-60°)	229	lm	3.96%
High (60-80°)	0.451	lm	0.00781%
Very High (80-90°)	0	lm	0%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	5782	lm	100%

BUG RATING B4 U0 G0