Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-4010-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.May.27-9001-VO
Measurement date	2026-05-27

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	0.50°
Input Power	127.8 W

Electrical Data

Input Power	127.8 W
Input Voltage	381.4 V DC
Input Current	0.34 A
Power Factor	1.00

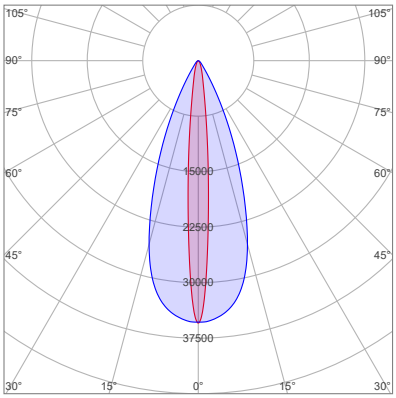
Tested Light Source

Product family	FL200-G2
Luminaire configuration	FL200-G2-XXX-RGBW3083-OM-4010-INF-XXXXX-X (ALL ON)
Manufacturer	GVA Lighting, Inc.
Size (width x length x height)	106 mm 0 mm x 430 mm

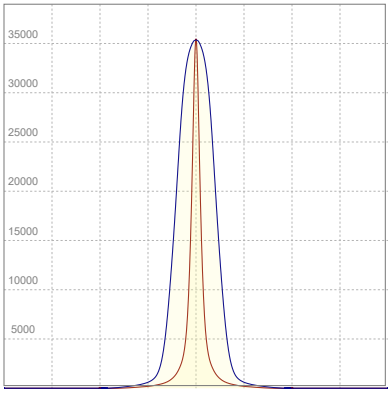
Main Light Measurement Results

Output – Total Lumen	5986 - 0% / 100%
Efficiency	46.85 lm/W
Peak Intensity	35442
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	8.9°
Beam Angle (FWHM) | C90/270	39.2°
Field Angle (10%) | C0/180	22.9°Unit: 0-100% of peak intensity
Optical Power	25145 mW
Peak Wavelength	453 nm
Dominant Wavelength	537 nm

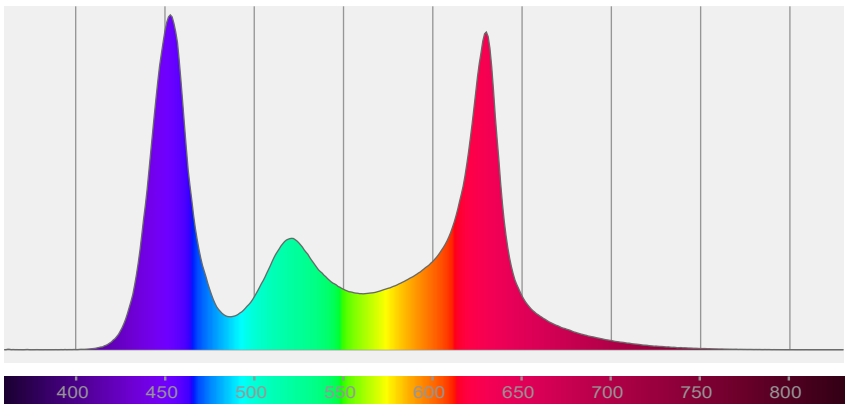
Polar Light Distribution Diagram
Unit: 0-100% of peak intensity



Linear distribution Diagram



Spectral Distribution



Color Temperature

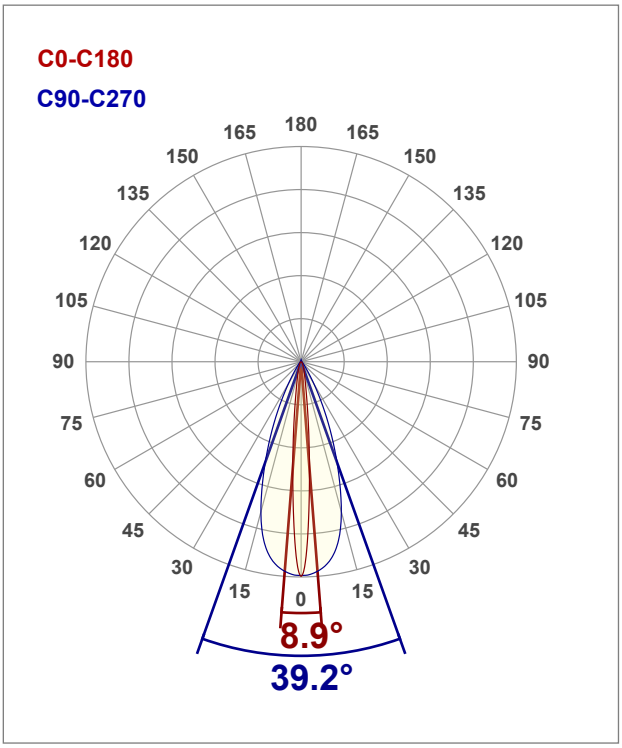
NaN K

Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-4010-INF-XXXXX-X (ALL ON)

Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	5986 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	35442 cd
Beam Angle (50%-FWHM)	16.5°

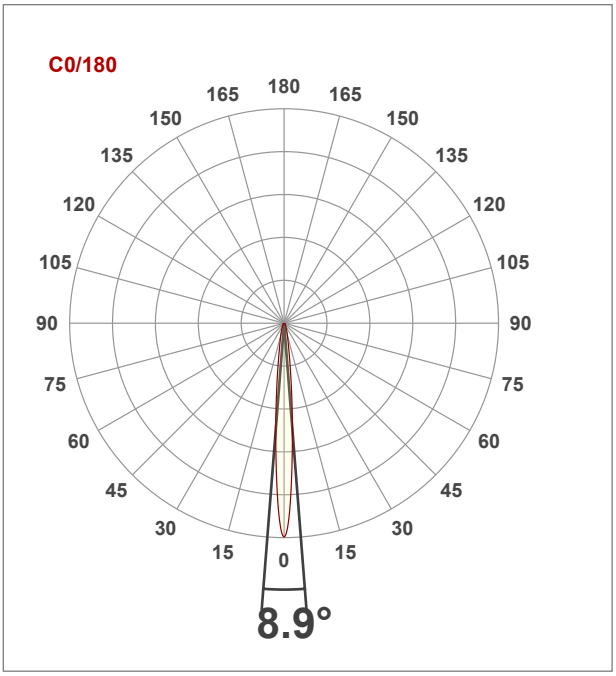
EU Ecodesign parameters

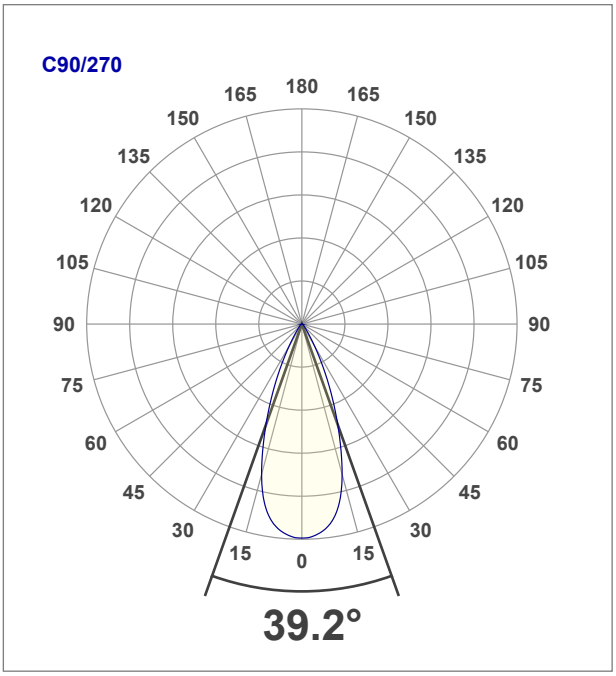
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	5629 lm
Ecodesign Energy Class	G

Intensity Ratio

In 120° cone	98.41%
In 90° cone	94.04%

Angular Distribution

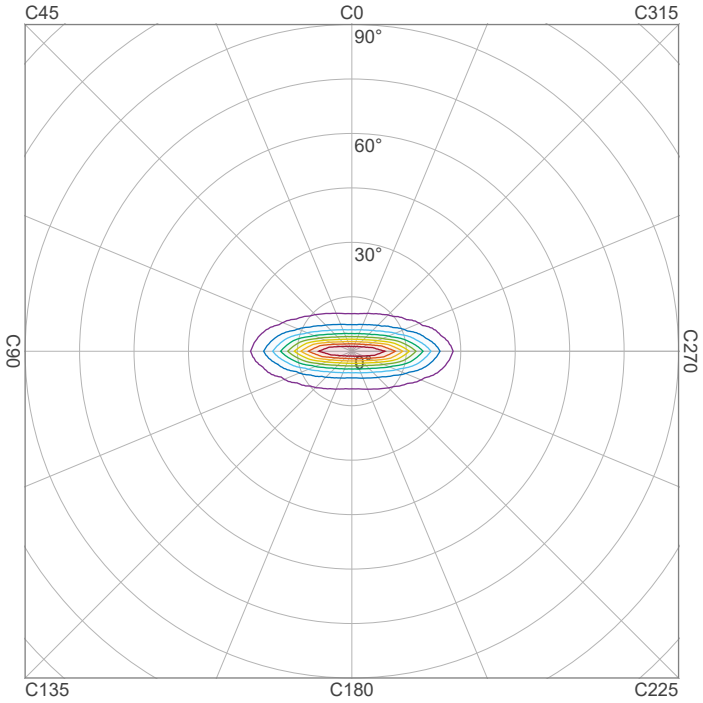




Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-4010-INF-XXXXX-X (ALL ON)

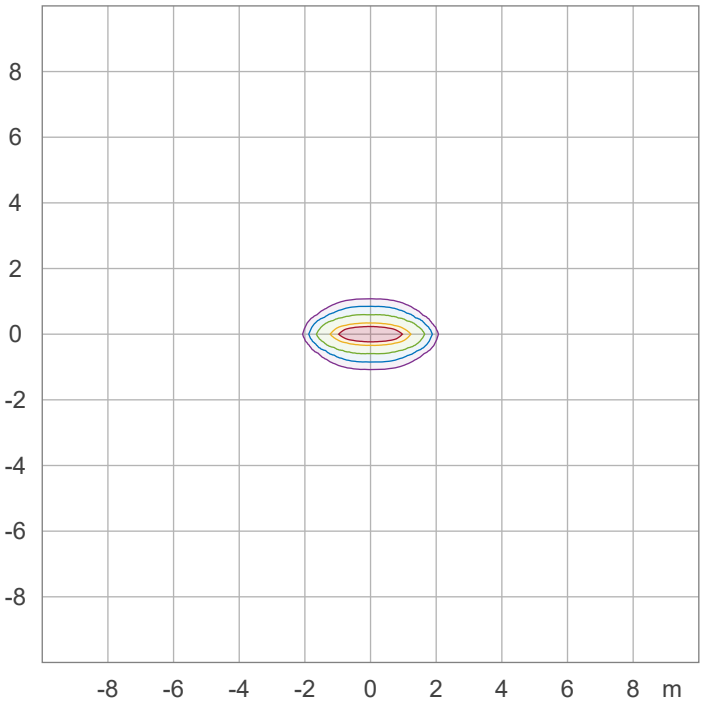
Iso-intensity Diagram (Iso-candela)



90 %	31786.7 cd
80 %	28254.8 cd
70 %	24723.0 cd
60 %	21191.1 cd
50 %	17659.3 cd
40 %	14127.4 cd
30 %	10595.6 cd
20 %	7063.7 cd
10 %	3531.9 cd

Peak intensity: 35318.5 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	1962 lx
30.0 %	1177 lx
10.0 %	392 lx
5.0 %	196 lx
3.0 %	118 lx

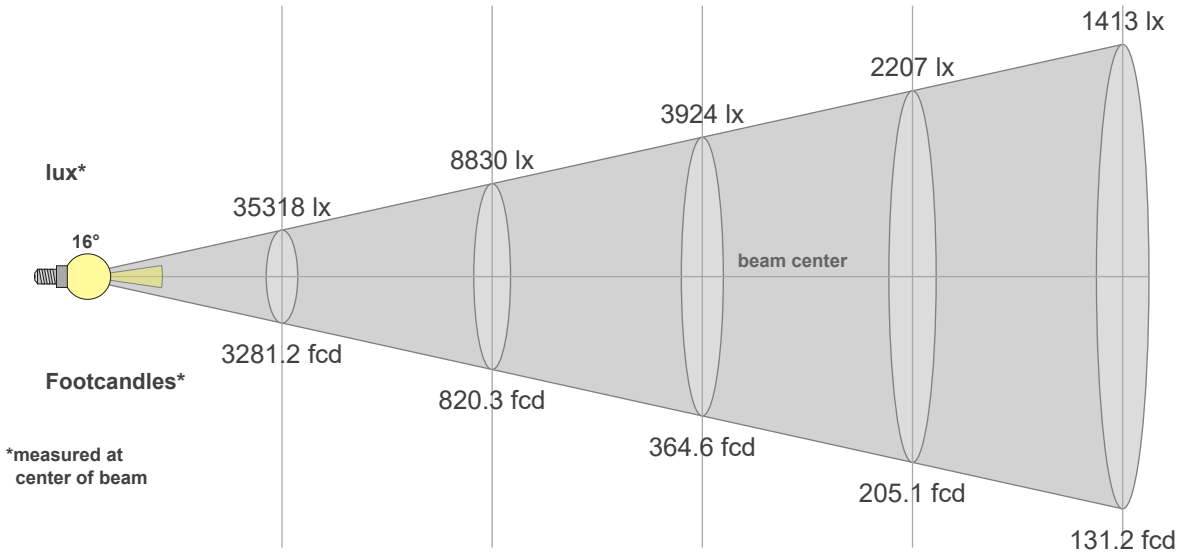
Peak illuminance: 3924 lx
Mounting height: 3 m
Number of c-planes: 36

Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-4010-INF-XXXXX-X (ALL ON)

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)	0.3 m	0.6 m	0.9 m	1.2 m	1.4 m
Beam width (feet)	0.9 ft	1.9 ft	2.8 ft	3.8 ft	4.7 ft

Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-4010-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
35318	8830	3924	2207	1413	981	721	552	436	353	292	245	209	180	157	138	122	109	98	88	lux
3281.2	820.3	364.6	205.1	131.2	91.1	67	51.3	40.5	32.8	27.1	22.8	19.4	16.7	14.6	12.8	11.4	10.1	9.1	8.2	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
35.3k	33.7k	29.7k	24.6k	19.7k	15.6k	12.2k	9.4k	7.3k	5.7k	4.6k	3.8k	3.2k	2.8k	2.5k	2.2k	1.9k	1.7k	1.5k	1.4k	cd
100%	96%	84%	70%	56%	44%	34%	27%	21%	16%	13%	11%	9%	8%	7%	6%	5%	5%	4%	4%	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
35.3k	35.3k	35.2k	35.1k	34.9k	34.6k	34.3k	33.8k	33.3k	32.7k	31.9k	31.0k	29.9k	28.7k	27.2k	25.7k	24.0k	22.2k	20.5k	18.7k	cd
100%	100%	100%	99%	99%	98%	97%	96%	94%	93%	90%	88%	85%	81%	77%	73%	68%	63%	58%	53%	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
35.3k	33.7k	29.7k	24.6k	19.7k	15.6k	12.2k	9.4k	7.3k	5.7k	4.6k	3.8k	3.2k	2.8k	2.5k	2.2k	1.9k	1.7k	1.5k	1.4k	cd
100%	96%	84%	70%	56%	44%	34%	27%	21%	16%	13%	11%	9%	8%	7%	6%	5%	5%	4%	4%	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
35.3k	35.3k	35.2k	35.1k	34.9k	34.6k	34.3k	33.8k	33.3k	32.7k	31.9k	31.0k	29.9k	28.7k	27.2k	25.7k	24.0k	22.2k	20.5k	18.7k	cd
100%	100%	100%	99%	99%	98%	97%	96%	94%	93%	90%	88%	85%	81%	77%	73%	68%	63%	58%	53%	of 0°val

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FL200-G2-XXX-RGBW3083-OM-4010-INF-XXXXX-X (ALL ON)

Power details

Input power	
Frequency of input power	0.0 Hz
Power feed to light source	127.8 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	127.8 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

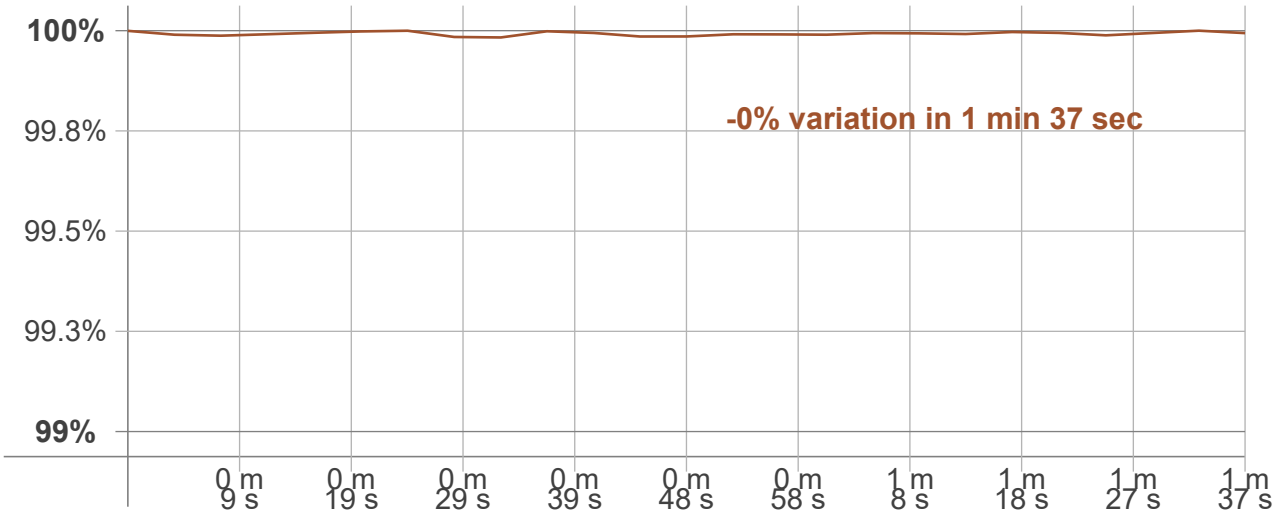
Efficiency

Radiated power efficiency	19.68
Lumen efficiency	46.85 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	5986 lm
Warmup variation	-0.0243%	Output change	-44.425 lm
		Output end	5986 lm

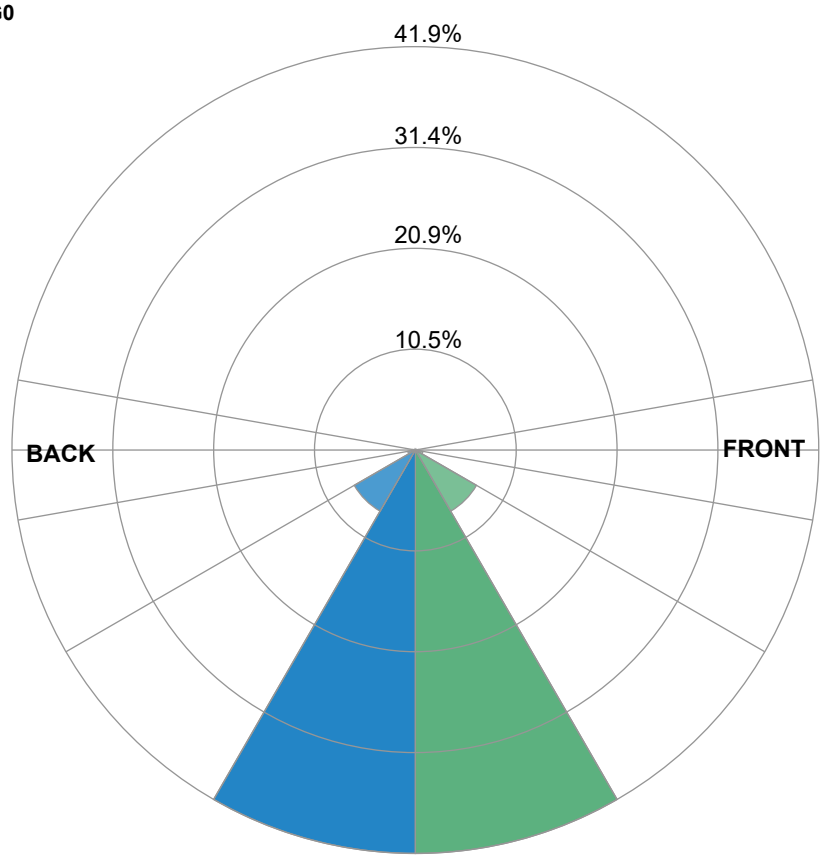
Stabilization Curve



Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-4010-INF-XXXXX-X (ALL ON)

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

Forward Light			
Low (0-30°)	2510	lm	41.9%
Medium (30-60°)	438	lm	7.33%
High (60-80°)	47.6	lm	0.795%
Very High (80-90°)	0.223	lm	0.00373%
Back Light			
Low (0-30°)	2510	lm	41.9%
Medium (30-60°)	438	lm	7.33%
High (60-80°)	47.6	lm	0.795%
Very High (80-90°)	0.223	lm	0.00373%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	5986	lm	100%

BUG RATING B4 U0 G0