Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-30L-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.Jun.02-9297-VO
Measurement date	2026-06-02

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	1.00°
Input Power	128.9 W

Electrical Data

Input Power	128.9 W
Input Voltage	381.5 V DC
Input Current	0.34 A
Power Factor	1.00

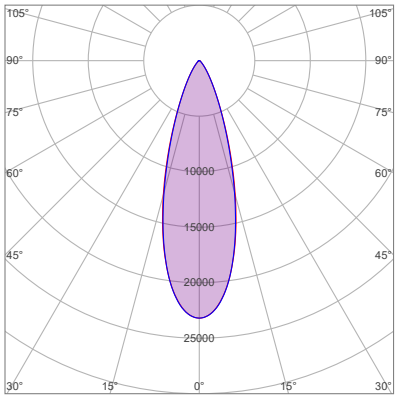
Tested Light Source

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

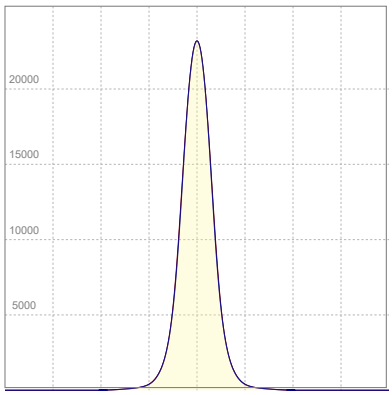
Main Light Measurement Results

Output – Total Lumen	8622 - 0.0147% / 99.99%
Efficiency	66.86 lm/W
Peak Intensity	23179
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	31.7°
Beam Angle (FWHM) | C90/270	31.2°
Field Angle (10%) | C0/180	59.2°Unit: 0-100% of peak intensity
Optical Power	25812 mW
Peak Wavelength	602 nm
Dominant Wavelength	584 nm

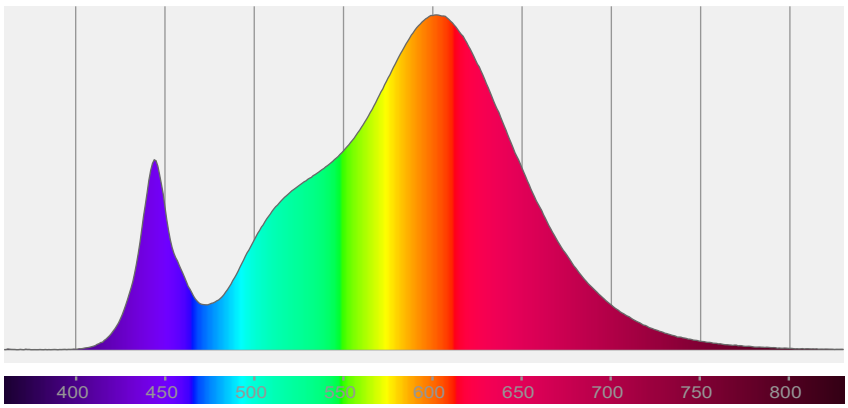
Polar Light Distribution Diagram
Unit: 0-100% of peak intensity



Linear distribution Diagram



Spectral Distribution



Color Temperature

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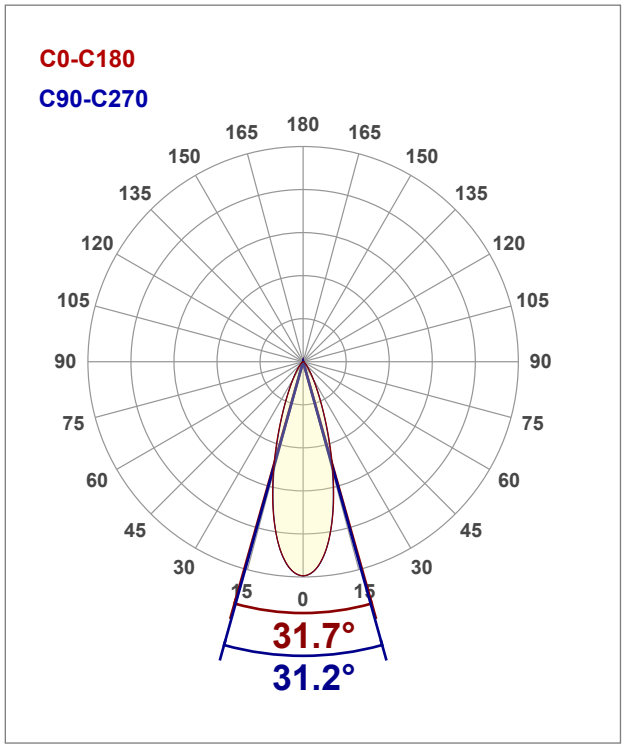
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	8622 lm
Lumen Up% / Down%	0.0147% / 99.99%
Peak Intensity	23179 cd
Beam Angle (50%-FWHM)	31.4°

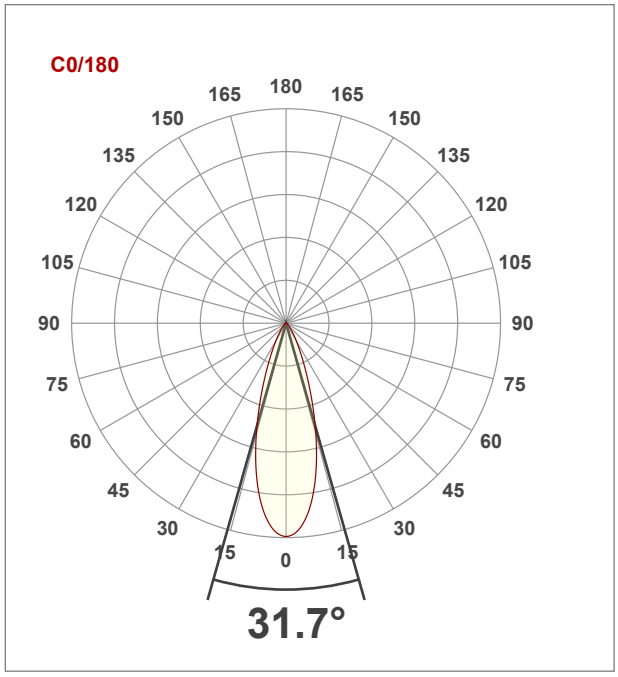
EU Ecodesign parameters

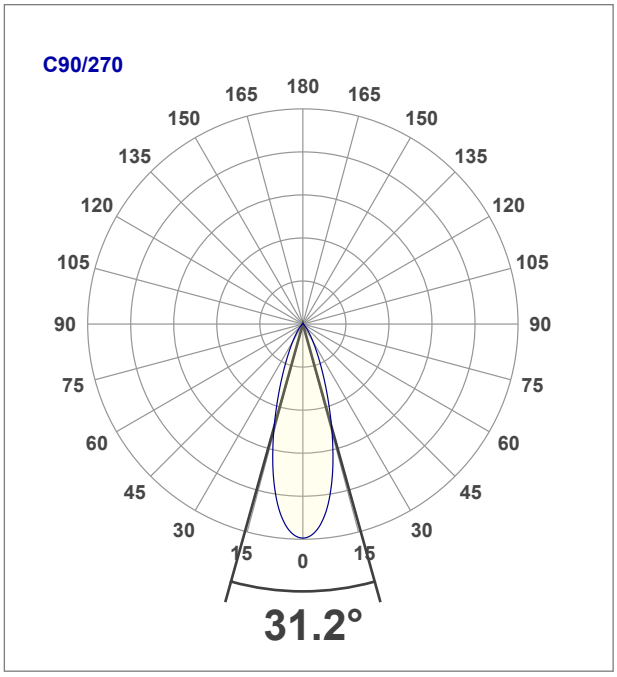
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	8184 lm
Ecodesign Energy Class	G

Intensity Ratio

In 120° cone	98.23%
In 90° cone	94.93%

Angular Distribution





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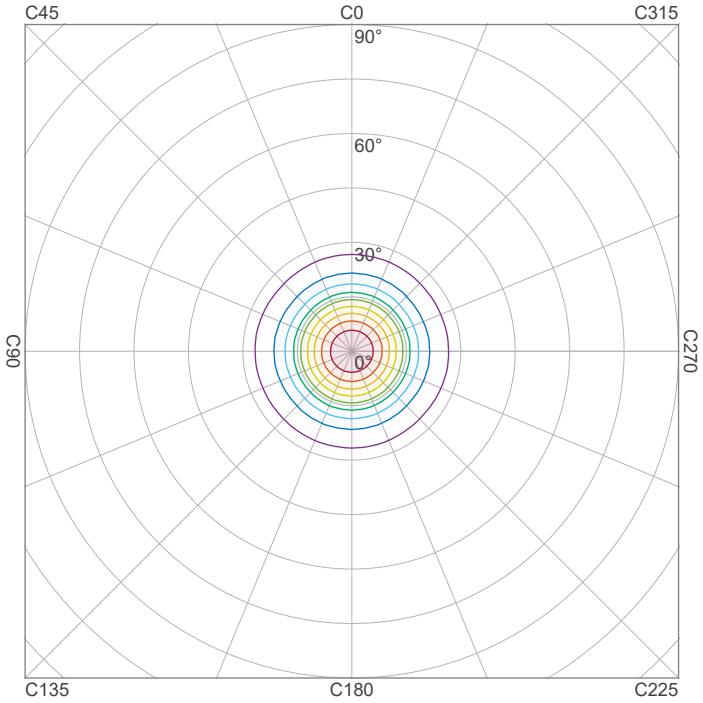
FL200-G2-XXX-RGBW3083-OM-30L-INF-XXXXX-X (W)

Iso-intensity Diagram (Iso-candela)

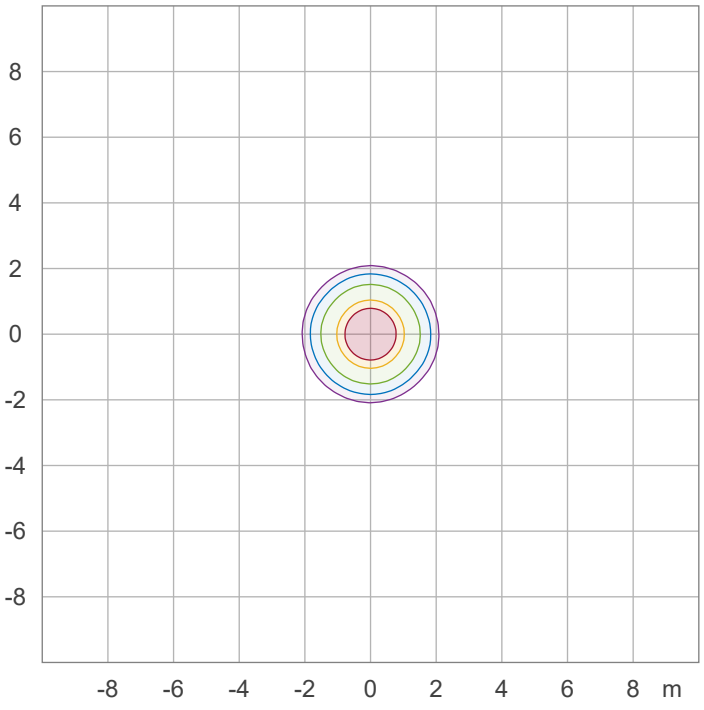


90 %	20850.4 cd
80 %	18533.7 cd
70 %	16216.9 cd
60 %	13900.2 cd
50 %	11583.5 cd
40 %	9266.8 cd
30 %	6950.1 cd
20 %	4633.4 cd
10 %	2316.7 cd

Peak intensity: 23167.1 cd

Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	1287 lx
30.0 %	772 lx
10.0 %	257 lx
5.0 %	129 lx
3.0 %	77.2 lx

Peak illuminance: 2574 lx

Mounting height: 3 m

Number of c-planes: 36

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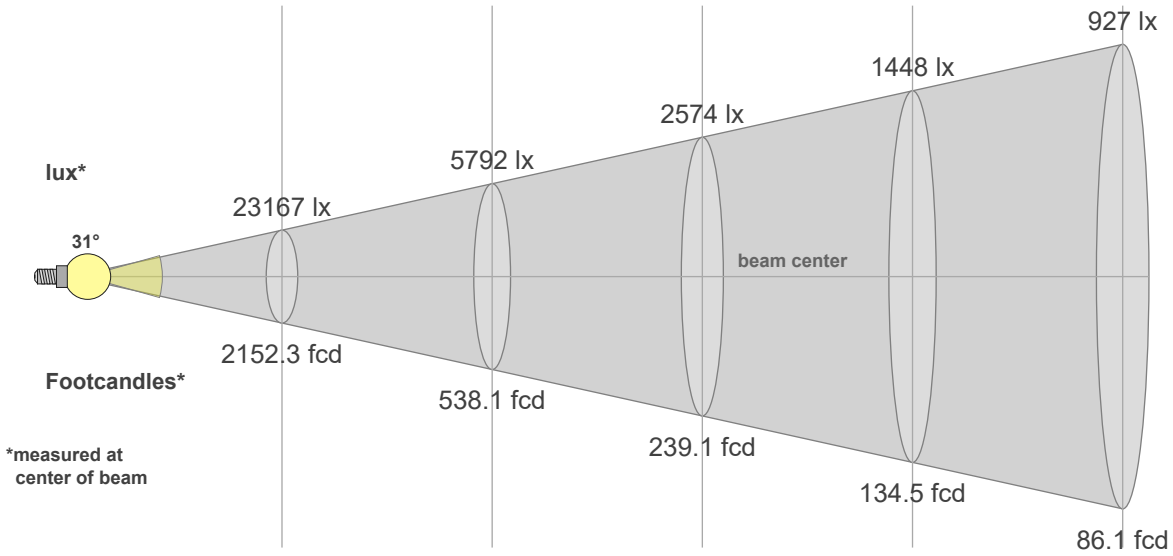
Beam details

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	1.1 m	1.7 m	2.2 m	2.8 m
Beam width (feet)	1.8 ft	3.7 ft	5.5 ft	7.4 ft	9.2 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
23167	5792	2574	1448	927	644	473	362	286	232	191	161	137	118	103	90	80	72	64	58	lux
2152.3	538.1	239.1	134.5	86.1	59.8	43.9	33.6	26.6	21.5	17.8	14.9	12.7	11	9.6	8.4	7.4	6.6	6	5.4	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
23.2k	22.9k	22.3k	21.2k	19.7k	17.9k	15.8k	13.6k	11.4k	9.3k	7.5k	5.9k	4.6k	3.6k	2.8k	2.2k	1.8k	1.4k	1.1k	0.9k	cd
100%	99%	96%	91%	85%	77%	68%	59%	49%	40%	32%	25%	20%	16%	12%	10%	8%	6%	5%	4%	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
23.2k	23.0k	22.3k	21.2k	19.7k	17.8k	15.6k	13.4k	11.1k	9.1k	7.3k	5.8k	4.5k	3.6k	2.8k	2.2k	1.7k	1.4k	1.1k	0.9k	cd
100%	99%	96%	91%	85%	77%	68%	58%	48%	39%	31%	25%	20%	15%	12%	10%	7%	6%	5%	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
23.2k	22.9k	22.3k	21.2k	19.7k	17.9k	15.8k	13.6k	11.4k	9.3k	7.5k	5.9k	4.6k	3.6k	2.8k	2.2k	1.8k	1.4k	1.1k	0.9k	cd
100%	99%	96%	91%	85%	77%	68%	59%	49%	40%	32%	25%	20%	16%	12%	10%	8%	6%	5%	4%	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
23.2k	23.0k	22.3k	21.2k	19.7k	17.8k	15.6k	13.4k	11.1k	9.1k	7.3k	5.8k	4.5k	3.6k	2.8k	2.2k	1.7k	1.4k	1.1k	0.9k	cd
100%	99%	96%	91%	85%	77%	68%	58%	48%	39%	31%	25%	20%	15%	12%	10%	7%	6%	5%	4%	of 0°val

Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-30L-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	381.5 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

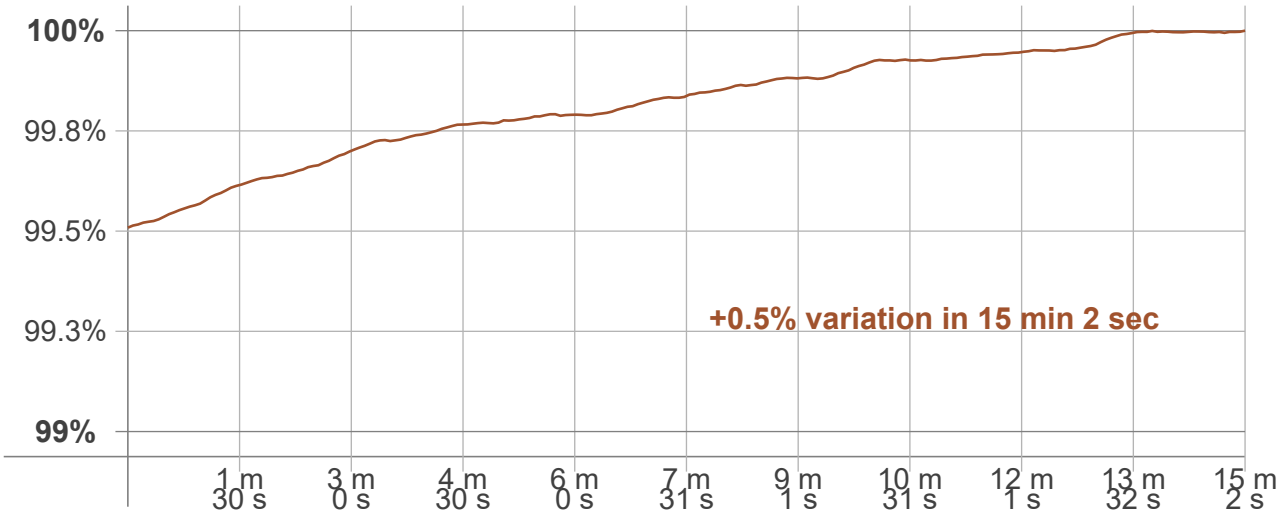
Efficiency

Radiated power efficiency	20.02
Lumen efficiency	66.86 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	Lamp stabilized in 15 min 2 sec	Output start	8579 lm
Warmup variation	0.5417%	Output change	42.6 lm
		Output end	8622 lm

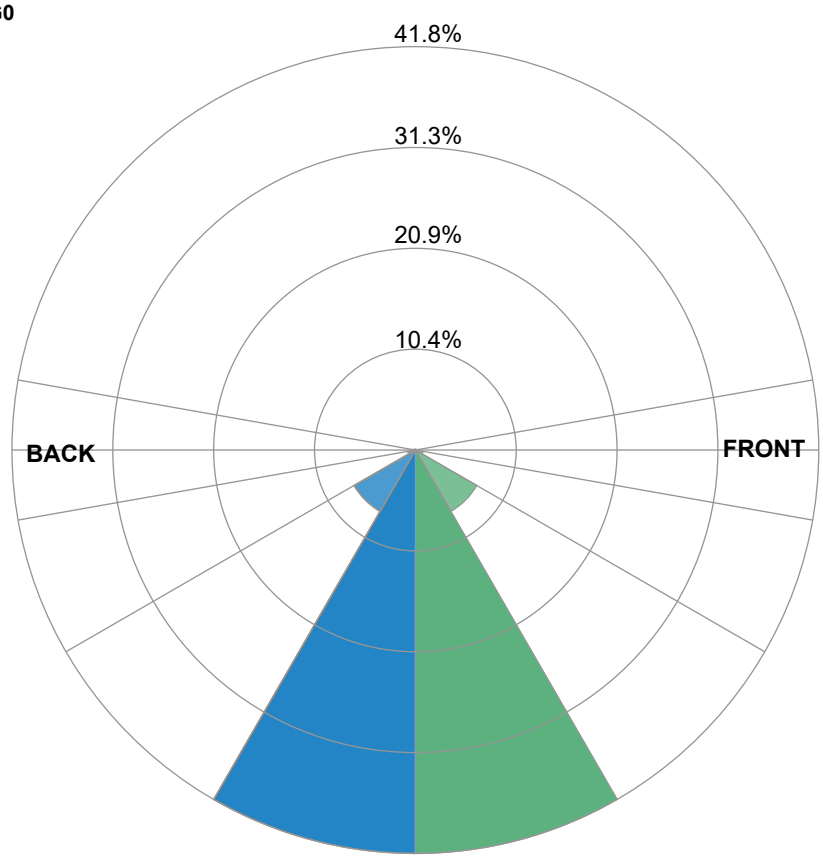
Stabilization Curve



Photometric Test Report

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

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

Forward Light			
Low (0-30°)	3600	lm	41.8%
Medium (30-60°)	633	lm	7.34%
High (60-80°)	69.1	lm	0.802%
Very High (80-90°)	6.59	lm	0.0764%
Back Light			
Low (0-30°)	3600	lm	41.8%
Medium (30-60°)	633	lm	7.34%
High (60-80°)	69.1	lm	0.802%
Very High (80-90°)	6.59	lm	0.0764%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	8622	lm	100%

BUG RATING B4 U0 G0