Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-10-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.Feb.19-7060-VO
Measurement date	2026-02-19

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	0.40°
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

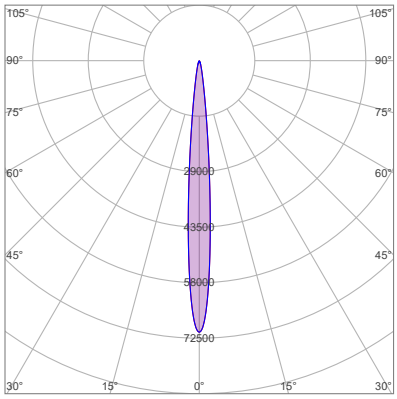
Tested Light Source

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

Main Light Measurement Results

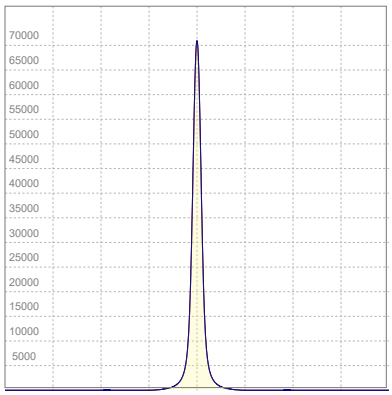
Output – Total Lumen	3092 - 0% / 100%
Efficiency	23.98 lm/W
Peak Intensity	70858
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	9.1°
Beam Angle (FWHM) | C90/270	9.1°
Field Angle (10%) | C0/180	18.8°Unit: 0-100% of peak intensity
Optical Power	18743 mW
Peak Wavelength	639 nm
Dominant Wavelength	624 nm

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

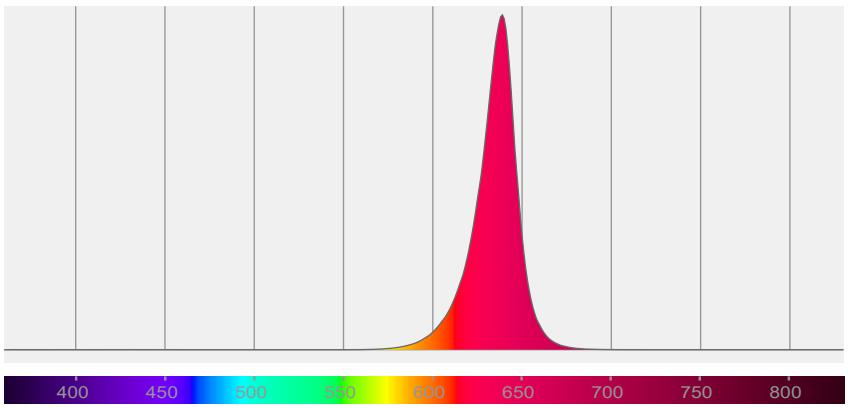


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

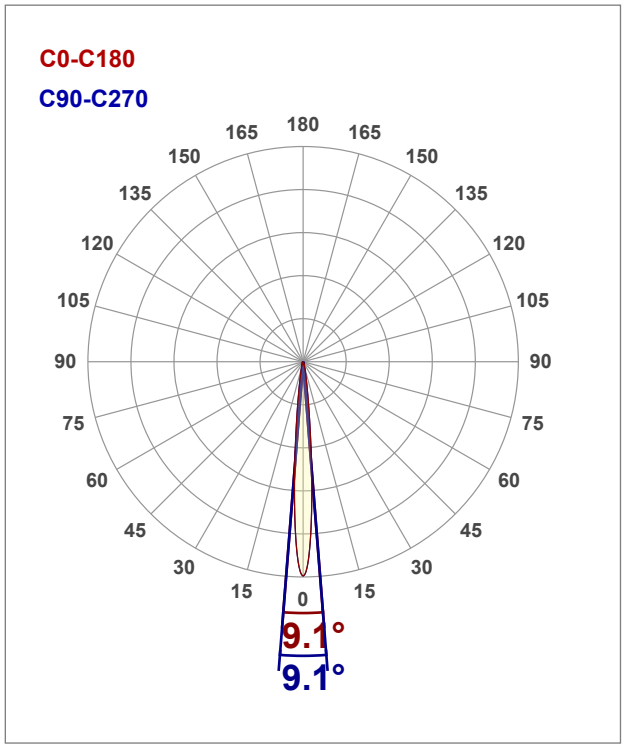
NaN K

Photometric Test Report

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

Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	3092 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	70858 cd
Beam Angle (50%-FWHM)	9.1°

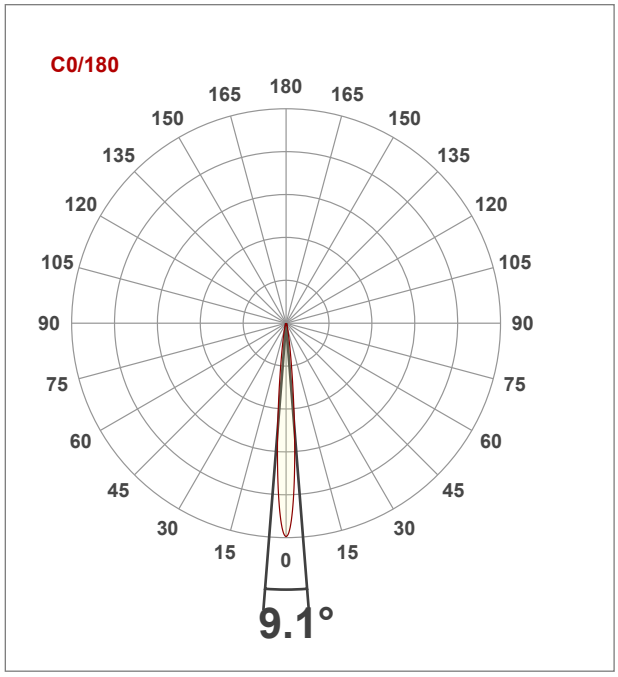
EU Ecodesign parameters

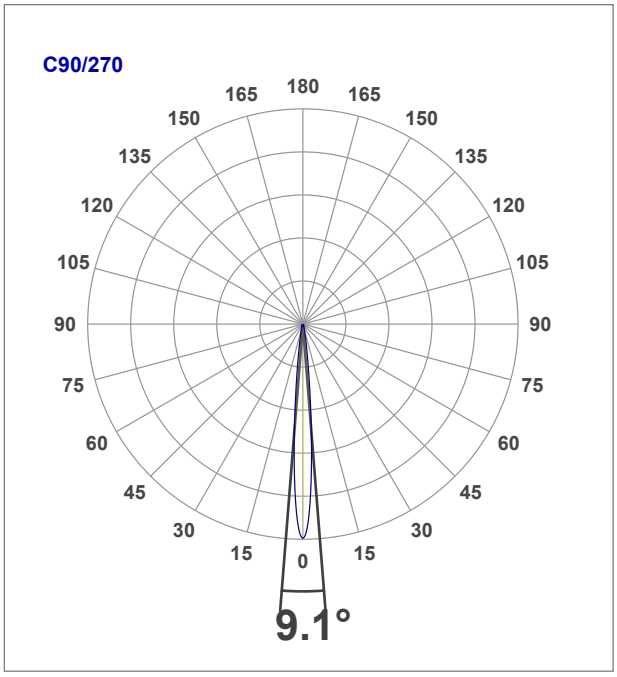
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	3092 lm
Ecodesign Energy Class	G

Intensity Ratio

In 120° cone	100%
In 90° cone	100%

Angular Distribution

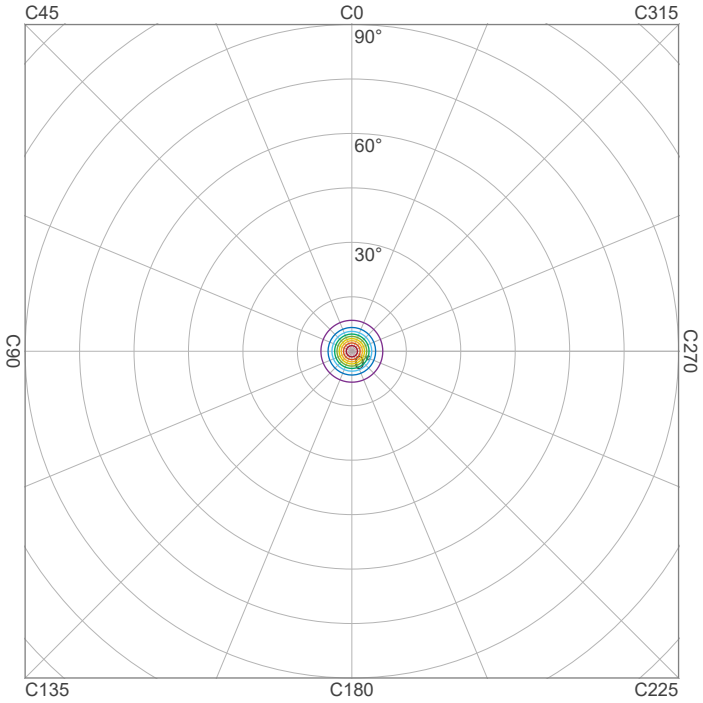




Photometric Test Report

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

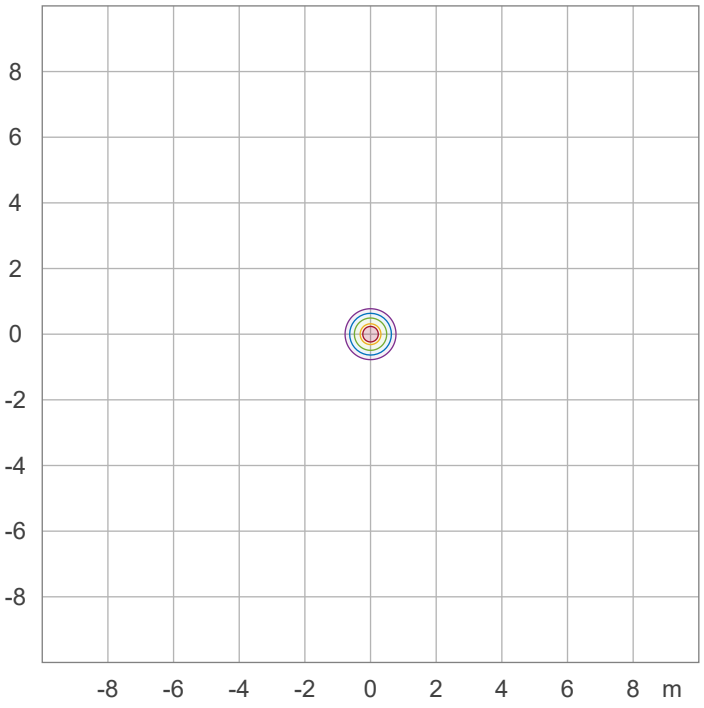
Iso-intensity Diagram (Iso-candela)



90 %	63772.2 cd
80 %	56686.4 cd
70 %	49600.6 cd
60 %	42514.8 cd
50 %	35429.0 cd
40 %	28343.2 cd
30 %	21257.4 cd
20 %	14171.6 cd
10 %	7085.8 cd

Peak intensity: 70858.0 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



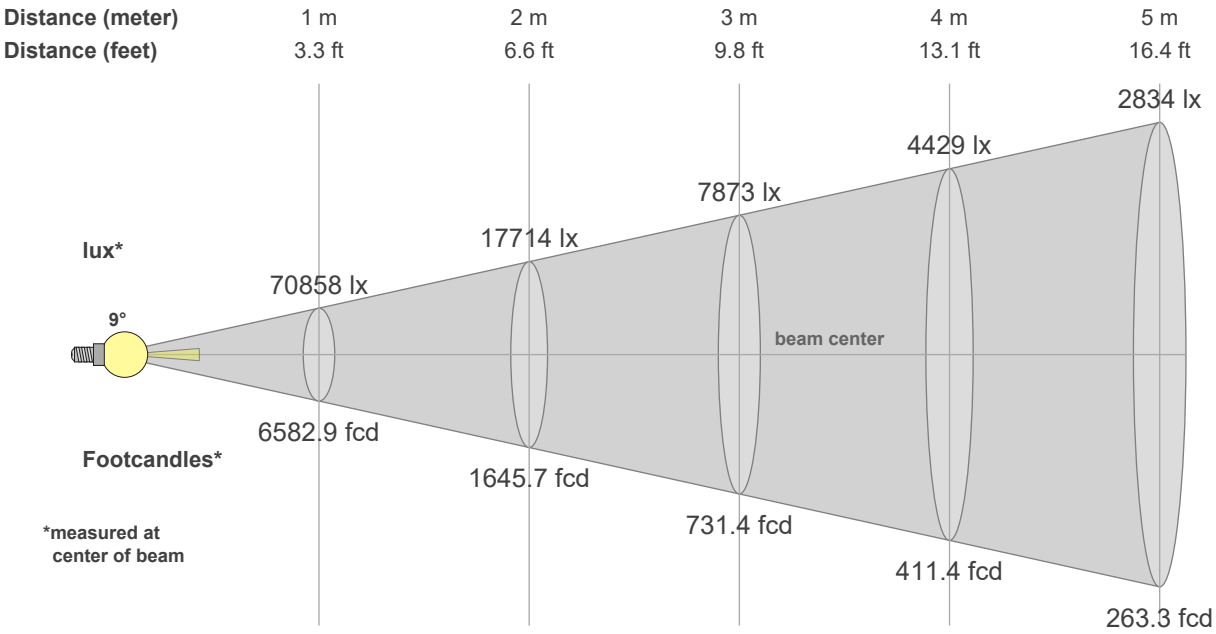
50.0 %	3937 lx
30.0 %	2362 lx
10.0 %	787 lx
5.0 %	394 lx
3.0 %	236 lx

Peak illuminance: 7873 lx
Mounting height: 3 m
Number of c-planes: 36

Photometric Test Report

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

Beam details



Photometric Test Report

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

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
70858	17714	7873	4429	2834	1968	1446	1107	875	709	586	492	419	362	315	277	245	219	196	177	lux
6582.9	1645.7	731.4	411.4	263.3	182.9	134.3	102.9	81.3	65.8	54.4	45.7	39	33.6	29.3	25.7	22.8	20.3	18.2	16.5	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
70.9k	68.5k	61.9k	52.2k	41.1k	30.6k	21.9k	15.4k	11.0k	8.0k	6.0k	4.7k	3.8k	3.1k	2.5k	2.1k	1.8k	1.6k	1.3k	1.2k	cd
100%	97%	87%	74%	58%	43%	31%	22%	15%	11%	9%	7%	5%	4%	4%	3%	3%	2%	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
70.9k	68.5k	61.9k	52.2k	41.1k	30.6k	21.9k	15.4k	11.0k	8.0k	6.0k	4.7k	3.8k	3.1k	2.5k	2.1k	1.8k	1.6k	1.3k	1.2k	cd
100%	97%	87%	74%	58%	43%	31%	22%	15%	11%	9%	7%	5%	4%	4%	3%	3%	2%	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
70.9k	68.5k	61.9k	52.2k	41.1k	30.6k	21.9k	15.4k	11.0k	8.0k	6.0k	4.7k	3.8k	3.1k	2.5k	2.1k	1.8k	1.6k	1.3k	1.2k	cd
100%	97%	87%	74%	58%	43%	31%	22%	15%	11%	9%	7%	5%	4%	4%	3%	3%	2%	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
70.9k	68.5k	61.9k	52.2k	41.1k	30.6k	21.9k	15.4k	11.0k	8.0k	6.0k	4.7k	3.8k	3.1k	2.5k	2.1k	1.8k	1.6k	1.3k	1.2k	cd
100%	97%	87%	74%	58%	43%	31%	22%	15%	11%	9%	7%	5%	4%	4%	3%	3%	2%	2%	2%	of 0°val

Photometric Test Report

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

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

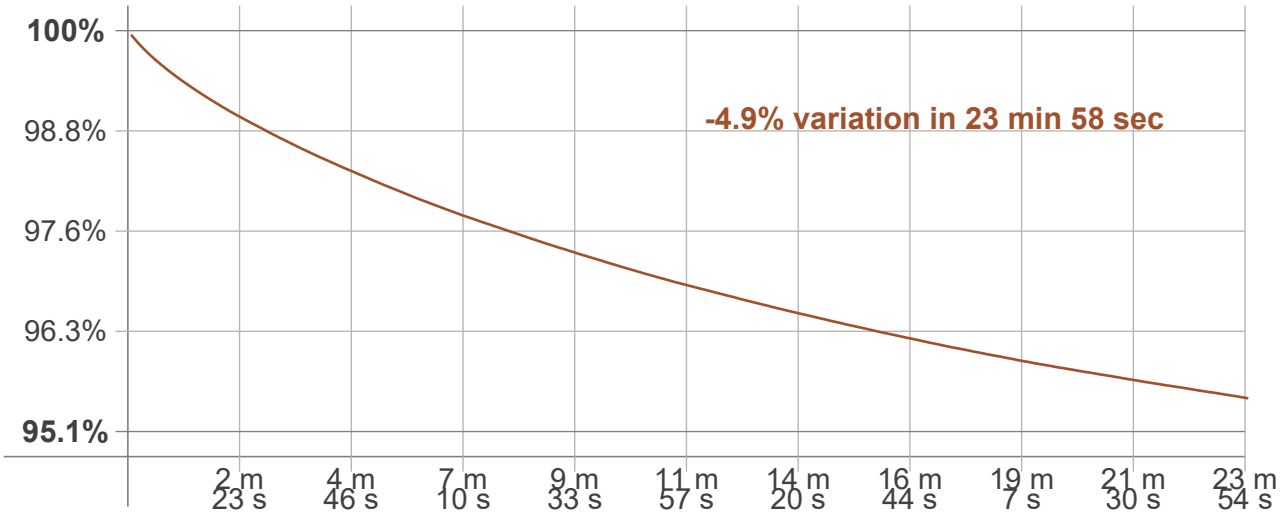
Efficiency

Radiated power efficiency	14.54
Lumen efficiency	23.98 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 23 min 58 sec	Output start	3245 lm
Warmup variation	-4.8755%	Output change	-153.16 lm
		Output end	3092 lm

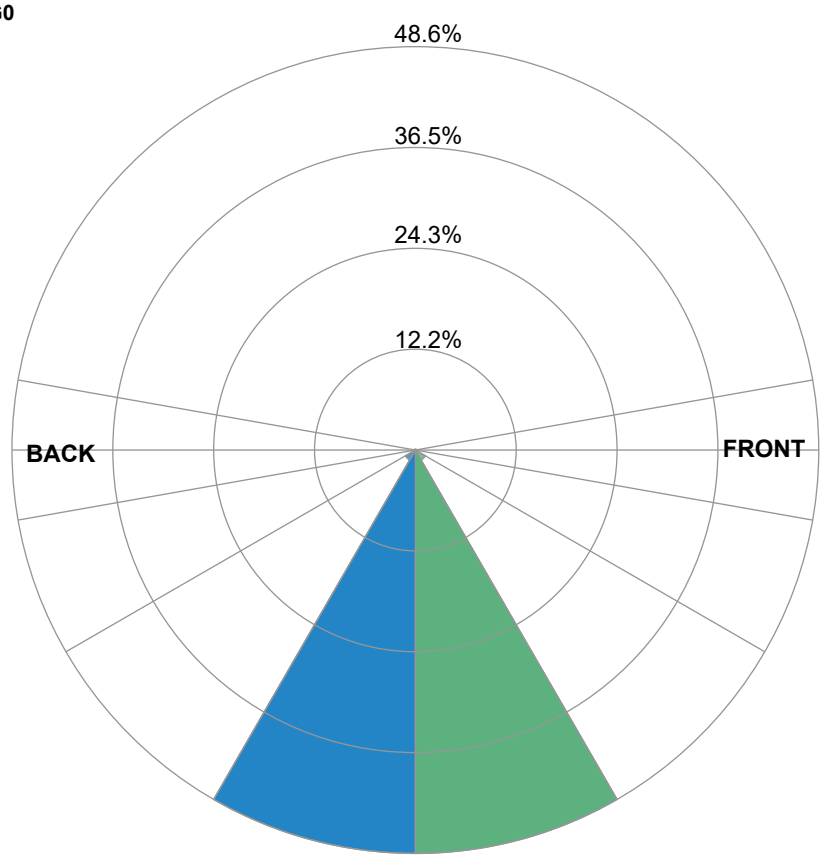
Stabilization Curve



Photometric Test Report

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

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

Forward Light			
Low (0-30°)	1500	lm	48.6%
Medium (30-60°)	43.1	lm	1.40%
High (60-80°)	0	lm	0%
Very High (80-90°)	0	lm	0%
Back Light			
Low (0-30°)	1500	lm	48.6%
Medium (30-60°)	43.1	lm	1.40%
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	3092	lm	100%

BUG RATING B3 U0 G0