Photometric Test Report

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

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.26-8902-VO
Measurement date	2026-05-26

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	0.30°
Input Power	128.2 W

Electrical Data

Input Power	128.2 W
Input Voltage	381.4 V DC
Input Current	0.34 A
Power Factor	1.00

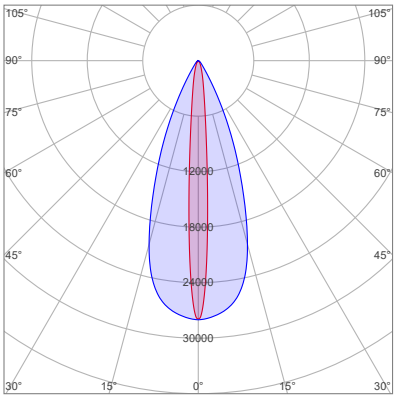
Tested Light Source

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

Main Light Measurement Results

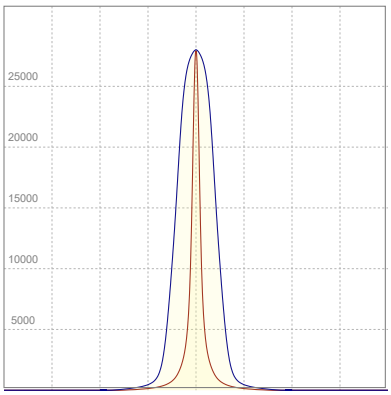
Output – Total Lumen	4680 - 0% / 100%
Efficiency	36.52 lm/W
Peak Intensity	28720
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	8.2°
Beam Angle (FWHM) | C90/270	39.2°
Field Angle (10%) | C0/180	22.9°Unit: 0-100% of peak intensity
Optical Power	9685 mW
Peak Wavelength	522 nm
Dominant Wavelength	527 nm

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

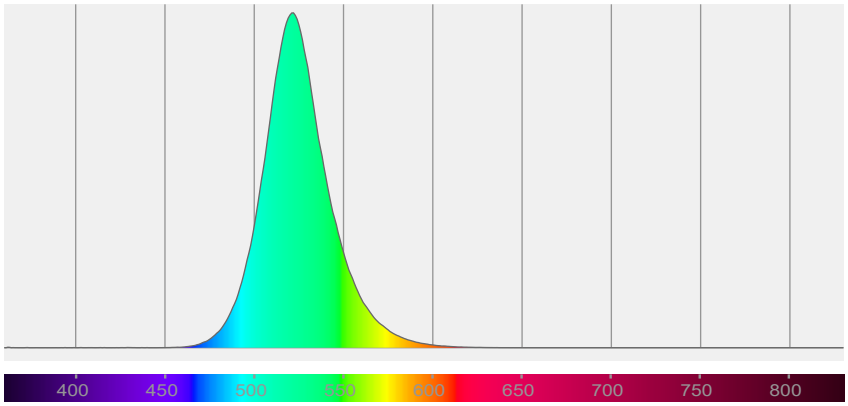


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

NaN K

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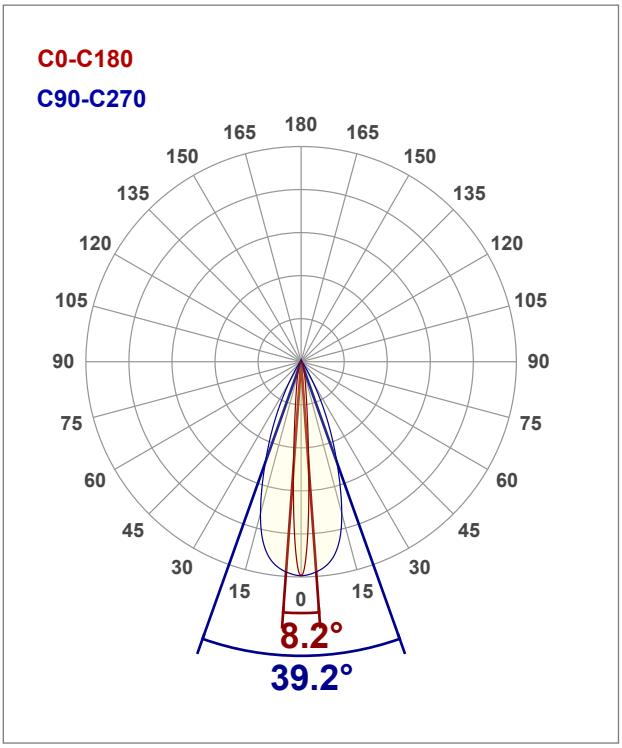
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	4680 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	28720 cd
Beam Angle (50%-FWHM)	16.2°

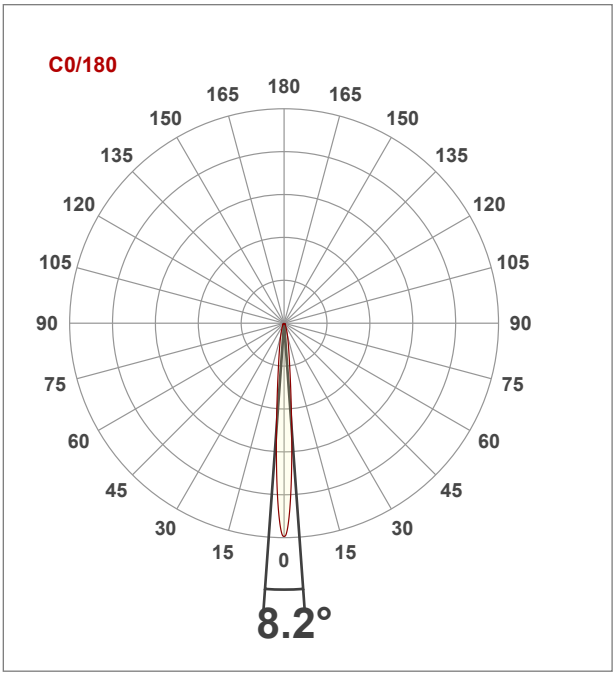
EU Ecodesign parameters

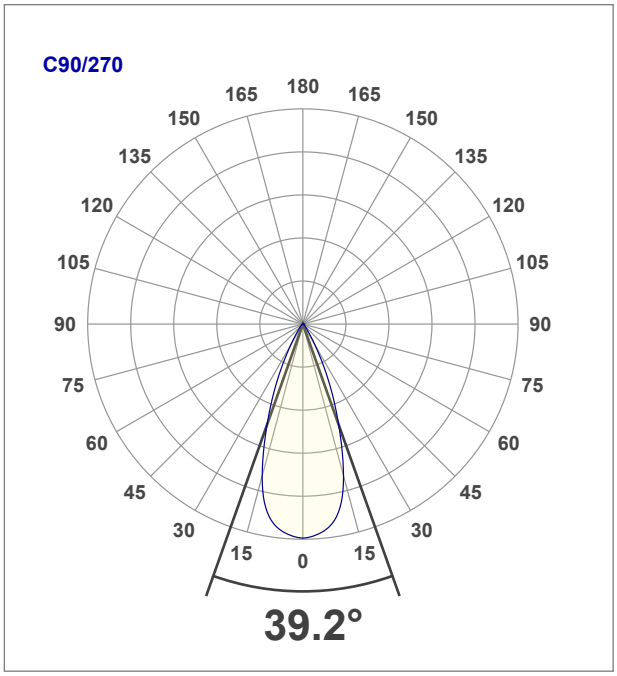
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	4430 lm
Ecodesign Energy Class	G

Intensity Ratio

In 120° cone	98.77%
In 90° cone	94.67%

Angular Distribution





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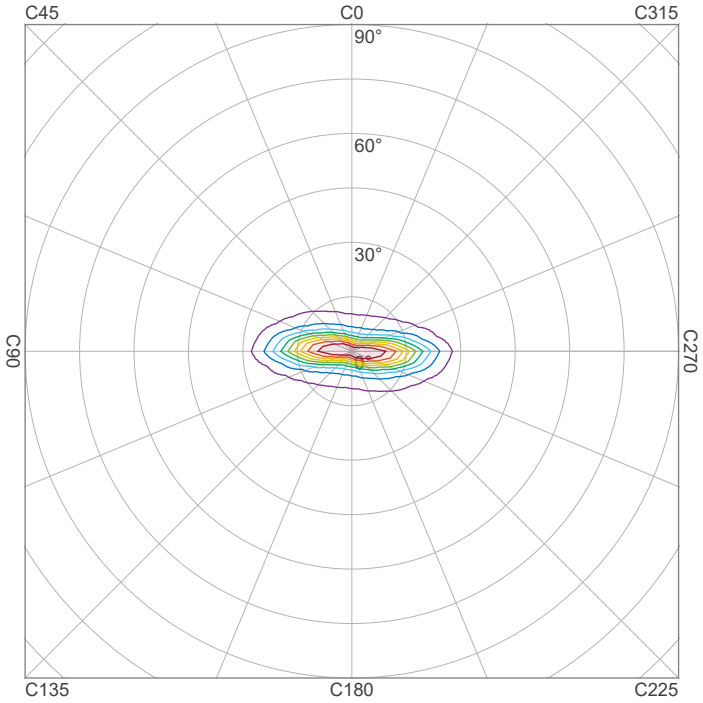
FL200-G2-XXX-RGBW3083-OM-4010-INF-XXXXX-X (G)

Iso-intensity Diagram (Iso-candela)

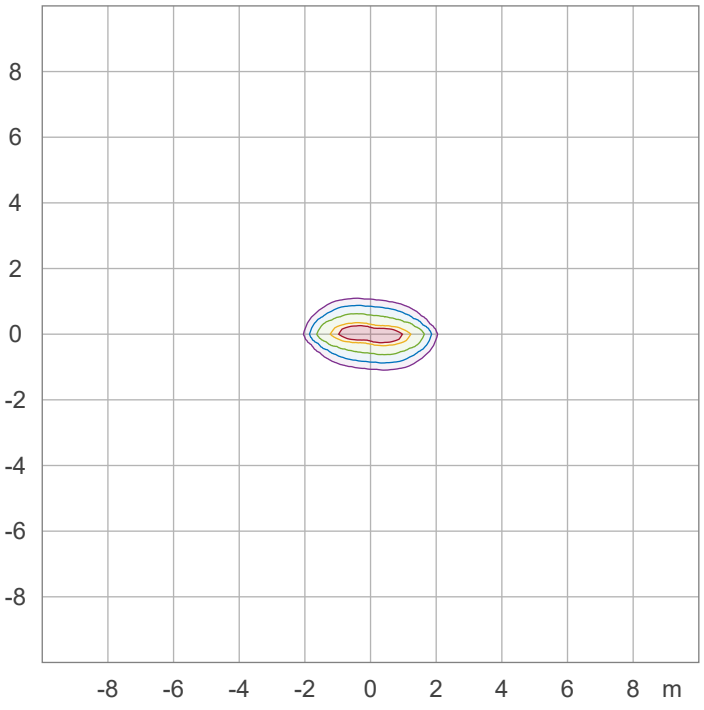


90 %	25231.6 cd
80 %	22428.1 cd
70 %	19624.6 cd
60 %	16821.1 cd
50 %	14017.6 cd
40 %	11214.1 cd
30 %	8410.5 cd
20 %	5607.0 cd
10 %	2803.5 cd

Peak intensity: 28035.2 cd

Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	1558 lx
30.0 %	935 lx
10.0 %	312 lx
5.0 %	156 lx
3.0 %	93.5 lx

Peak illuminance: 3115 lx

Mounting height: 3 m

Number of c-planes: 36

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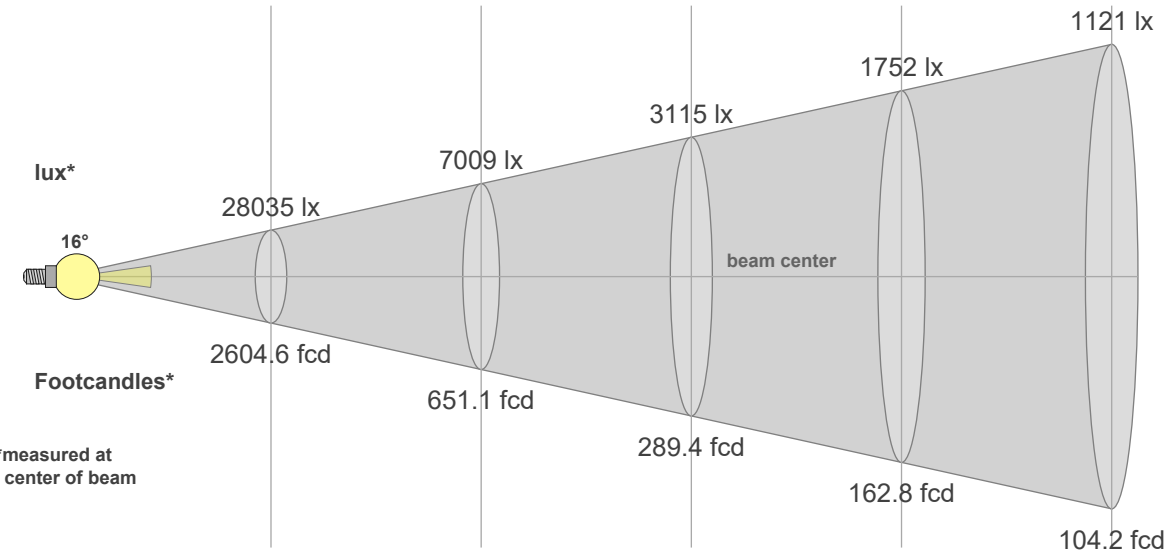
Beam details

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)	0.3 m	0.6 m	0.9 m	1.1 m	1.4 m
Beam width (feet)	0.9 ft	1.9 ft	2.8 ft	3.7 ft	4.7 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
28035	7009	3115	1752	1121	779	572	438	346	280	232	195	166	143	125	110	97	87	78	70	lux
2604.6	651.1	289.4	162.8	104.2	72.3	53.2	40.7	32.2	26	21.5	18.1	15.4	13.3	11.6	10.2	9	8	7.2	6.5	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
28.0k	26.8k	23.4k	18.9k	14.4k	10.7k	8.1k	6.3k	5.1k	4.2k	3.5k	3.0k	2.6k	2.3k	2.0k	1.7k	1.5k	1.4k	1.2k	1.1k	cd
100%	95%	83%	67%	51%	38%	29%	22%	18%	15%	12%	11%	9%	8%	7%	6%	6%	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
28.0k	28.0k	27.9k	27.7k	27.6k	27.4k	27.2k	26.9k	26.5k	26.1k	25.5k	24.8k	24.0k	23.0k	21.9k	20.5k	19.1k	17.7k	16.2k	14.8k	cd
100%	100%	99%	99%	98%	98%	97%	96%	95%	93%	91%	89%	86%	82%	78%	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
28.0k	26.8k	23.4k	18.9k	14.4k	10.7k	8.1k	6.3k	5.1k	4.2k	3.5k	3.0k	2.6k	2.3k	2.0k	1.7k	1.5k	1.4k	1.2k	1.1k	cd
100%	95%	83%	67%	51%	38%	29%	22%	18%	15%	12%	11%	9%	8%	7%	6%	6%	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
28.0k	28.0k	27.9k	27.7k	27.6k	27.4k	27.2k	26.9k	26.5k	26.1k	25.5k	24.8k	24.0k	23.0k	21.9k	20.5k	19.1k	17.7k	16.2k	14.8k	cd
100%	100%	99%	99%	98%	98%	97%	96%	95%	93%	91%	89%	86%	82%	78%	73%	68%	63%	58%	53%	of 0°val

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

Power details

Input power	
Frequency of input power	0.0 Hz
Power feed to light source	128.2 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	128.2 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

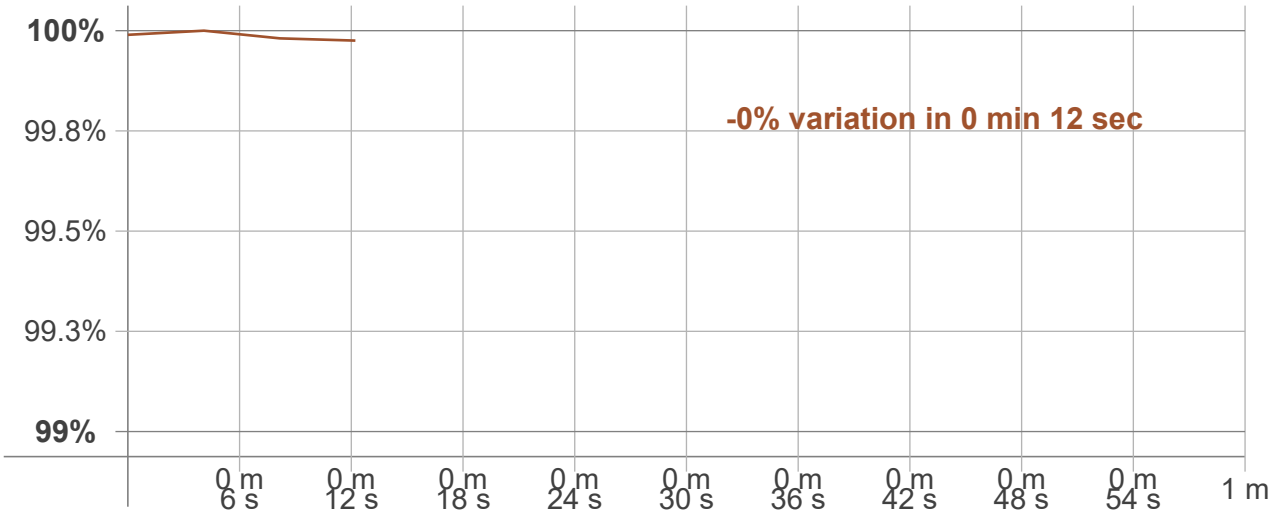
Efficiency

Radiated power efficiency	7.557
Lumen efficiency	36.52 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	4681 lm
Warmup variation	-0.0248%	Output change	-0.7869 lm
		Output end	4680 lm

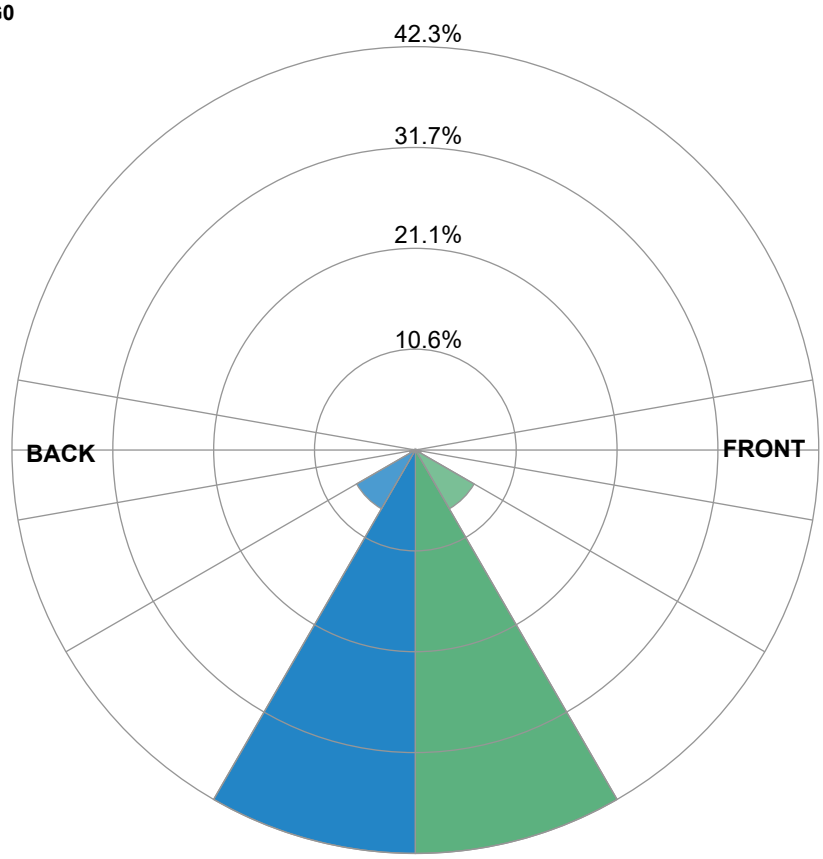
Stabilization Curve



Photometric Test Report

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

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

Forward Light			
Low (0-30°)	1980	lm	42.3%
Medium (30-60°)	333	lm	7.11%
High (60-80°)	29.0	lm	0.620%
Very High (80-90°)	0.0144	lm	0.000308%
Back Light			
Low (0-30°)	1980	lm	42.3%
Medium (30-60°)	333	lm	7.11%
High (60-80°)	29.0	lm	0.620%
Very High (80-90°)	0.0144	lm	0.000308%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	4680	lm	100%

BUG RATING B3 U0 G0