Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-10-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.Apr.16-7913-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

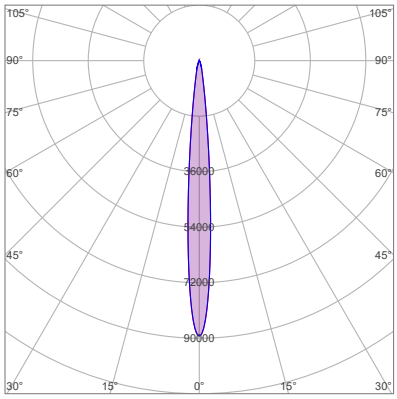
Tested Light Source

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

Main Light Measurement Results

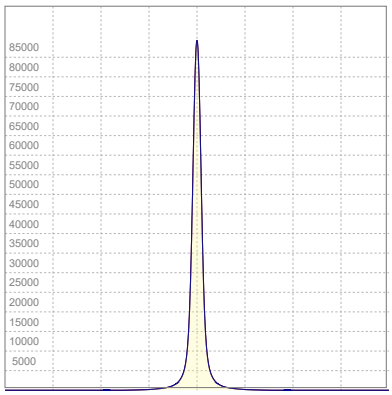
Output – Total Lumen	4570 - 0% / 100%
Efficiency	35.45 lm/W
Peak Intensity	89115
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	9.2°
Beam Angle (FWHM) | C90/270	9.2°
Field Angle (10%) | C0/180	19.3°Unit: 0-100% of peak intensity
Optical Power	9453 mW
Peak Wavelength	522 nm
Dominant Wavelength	527 nm

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

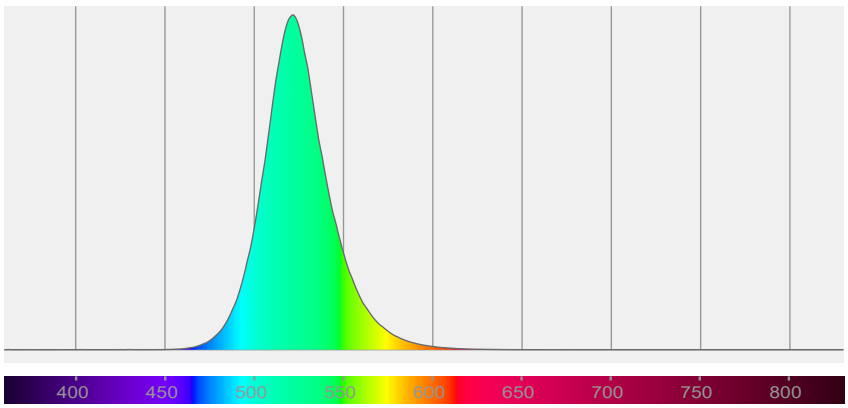


C0 - C180 η = 100%
C90 - C270

Linear distribution Diagram



Spectral Distribution



Color Temperature

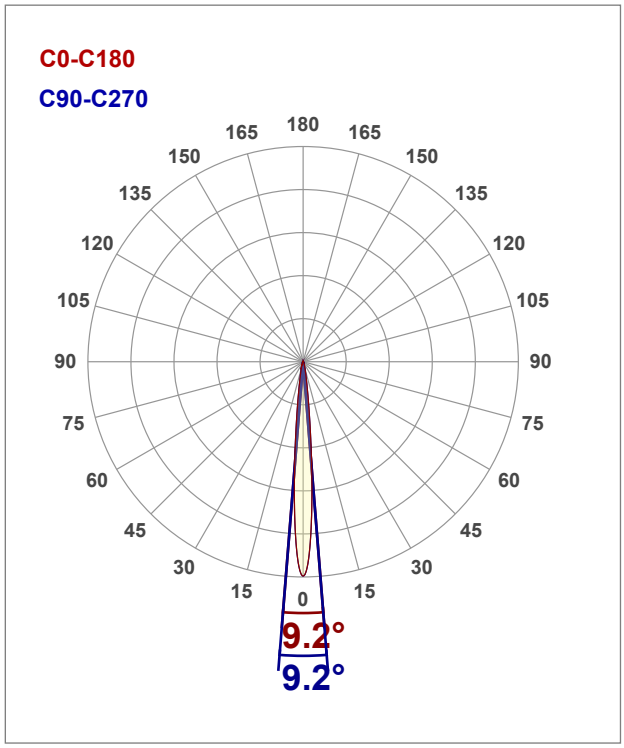
NaN K

Photometric Test Report

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

Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	4570 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	89115 cd
Beam Angle (50%-FWHM)	9.2°

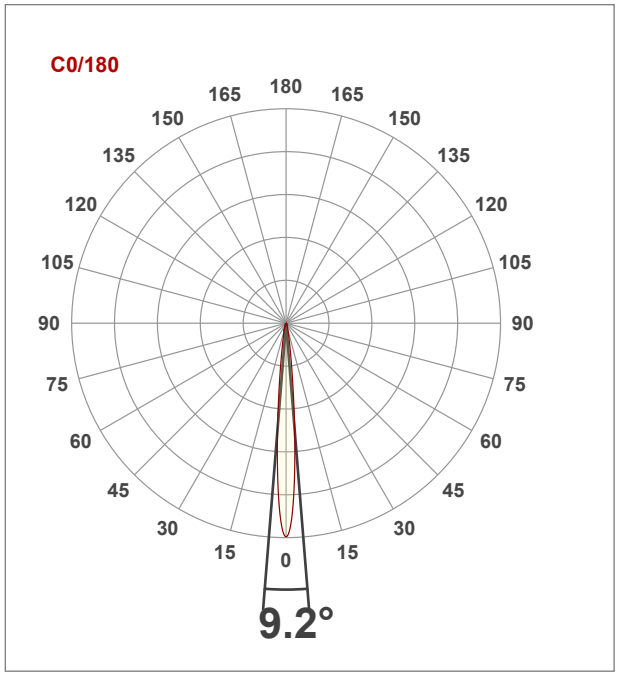
EU Ecodesign parameters

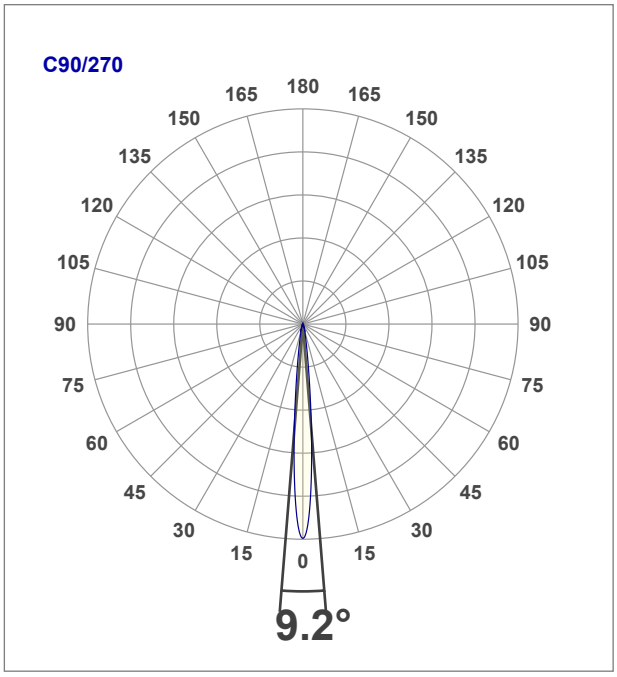
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	4421 lm
Ecodesign Energy Class	G

Intensity Ratio

In 120° cone	99.59%
In 90° cone	96.74%

Angular Distribution

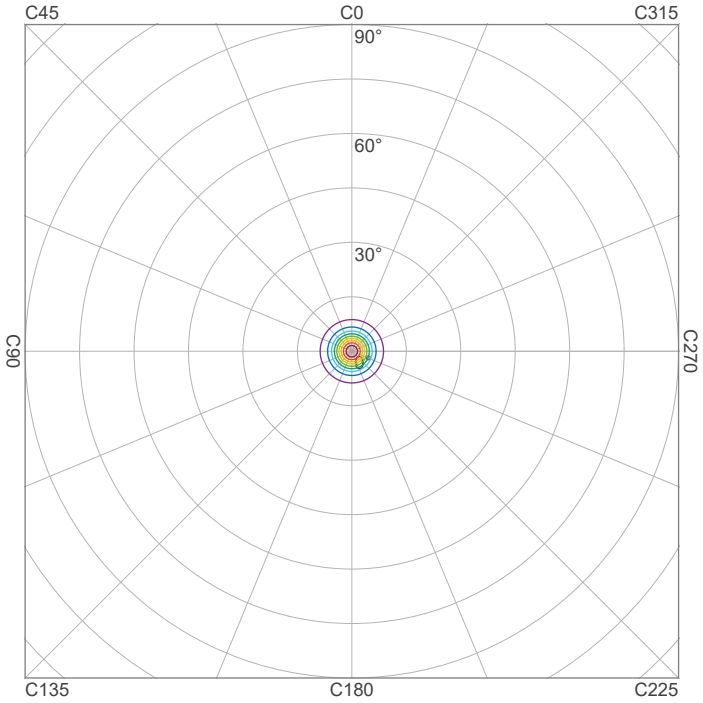




Photometric Test Report

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

Iso-intensity Diagram (Iso-candela)

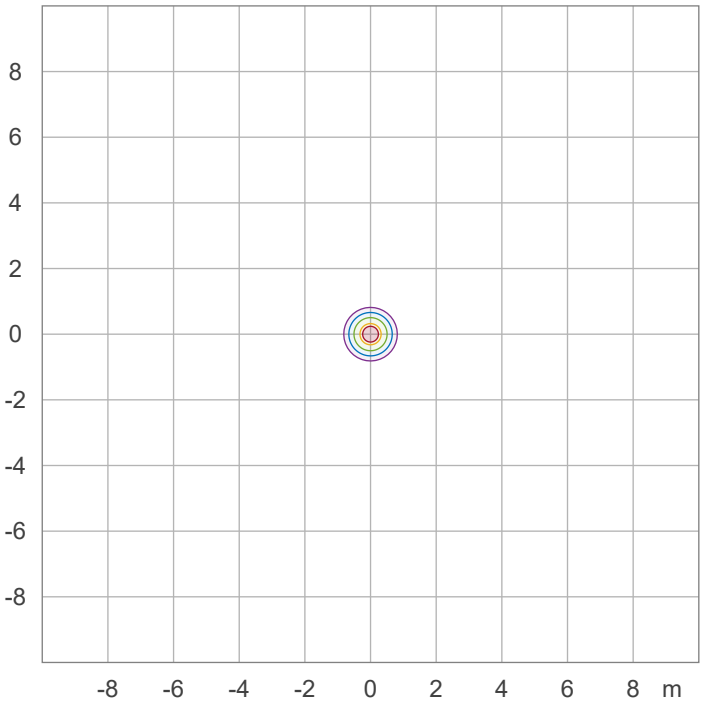


90 %	80203.1 cd
80 %	71291.7 cd
70 %	62380.2 cd
60 %	53468.8 cd
50 %	44557.3 cd
40 %	35645.8 cd
30 %	26734.4 cd
20 %	17822.9 cd
10 %	8911.5 cd

Peak intensity: 89114.6 cd

Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	4951 lx
30.0 %	2970 lx
10.0 %	990 lx
5.0 %	495 lx
3.0 %	297 lx

Peak illuminance: 9902 lx

Mounting height: 3 m

Number of c-planes: 36

Photometric Test Report

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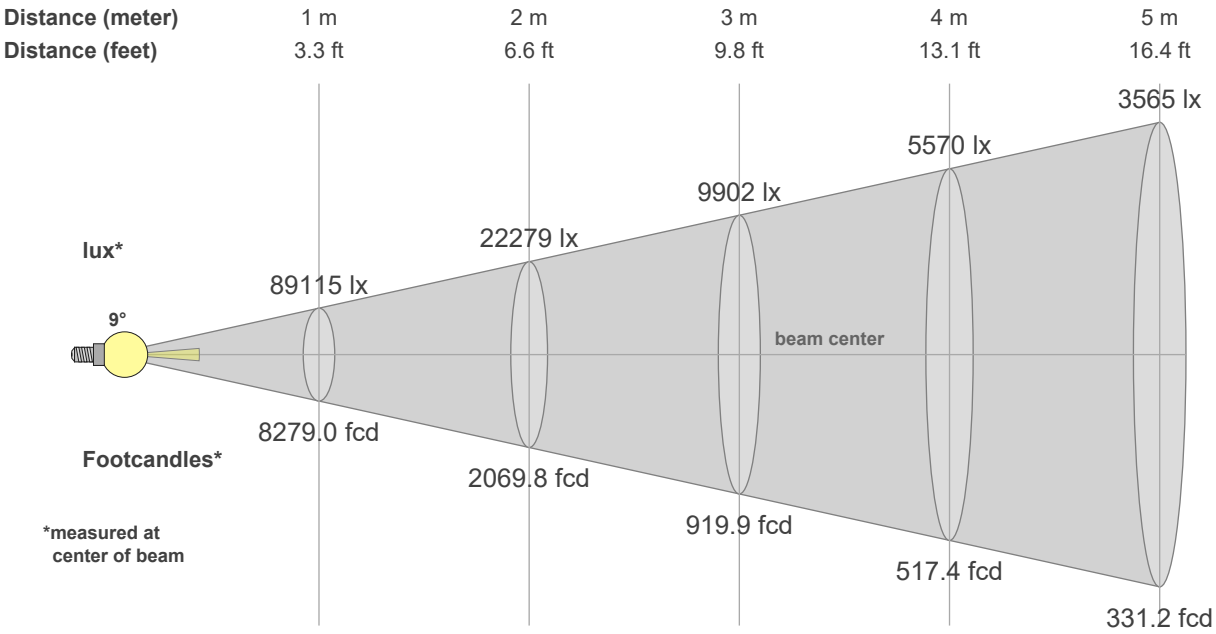
Beam details



Photometric Test Report

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

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
89115	22279	9902	5570	3565	2475	1819	1392	1100	891	736	619	527	455	396	348	308	275	247	223	lux
8279	2069.8	919.9	517.4	331.2	230	169	129.4	102.2	82.8	68.4	57.5	49	42.2	36.8	32.3	28.6	25.6	22.9	20.7	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
89.1k	86.3k	78.2k	66.1k	52.5k	39.4k	28.5k	20.2k	14.5k	10.7k	8.1k	6.4k	5.2k	4.3k	3.6k	3.1k	2.6k	2.3k	2.0k	1.8k	cd
100%	97%	88%	74%	59%	44%	32%	23%	16%	12%	9%	7%	6%	5%	4%	3%	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
89.1k	86.3k	78.2k	66.1k	52.5k	39.4k	28.5k	20.2k	14.5k	10.7k	8.1k	6.4k	5.2k	4.3k	3.6k	3.1k	2.6k	2.3k	2.0k	1.8k	cd
100%	97%	88%	74%	59%	44%	32%	23%	16%	12%	9%	7%	6%	5%	4%	3%	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
89.1k	86.3k	78.2k	66.1k	52.5k	39.4k	28.5k	20.2k	14.5k	10.7k	8.1k	6.4k	5.2k	4.3k	3.6k	3.1k	2.6k	2.3k	2.0k	1.8k	cd
100%	97%	88%	74%	59%	44%	32%	23%	16%	12%	9%	7%	6%	5%	4%	3%	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
89.1k	86.3k	78.2k	66.1k	52.5k	39.4k	28.5k	20.2k	14.5k	10.7k	8.1k	6.4k	5.2k	4.3k	3.6k	3.1k	2.6k	2.3k	2.0k	1.8k	cd
100%	97%	88%	74%	59%	44%	32%	23%	16%	12%	9%	7%	6%	5%	4%	3%	3%	3%	2%	2%	of 0°val

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

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

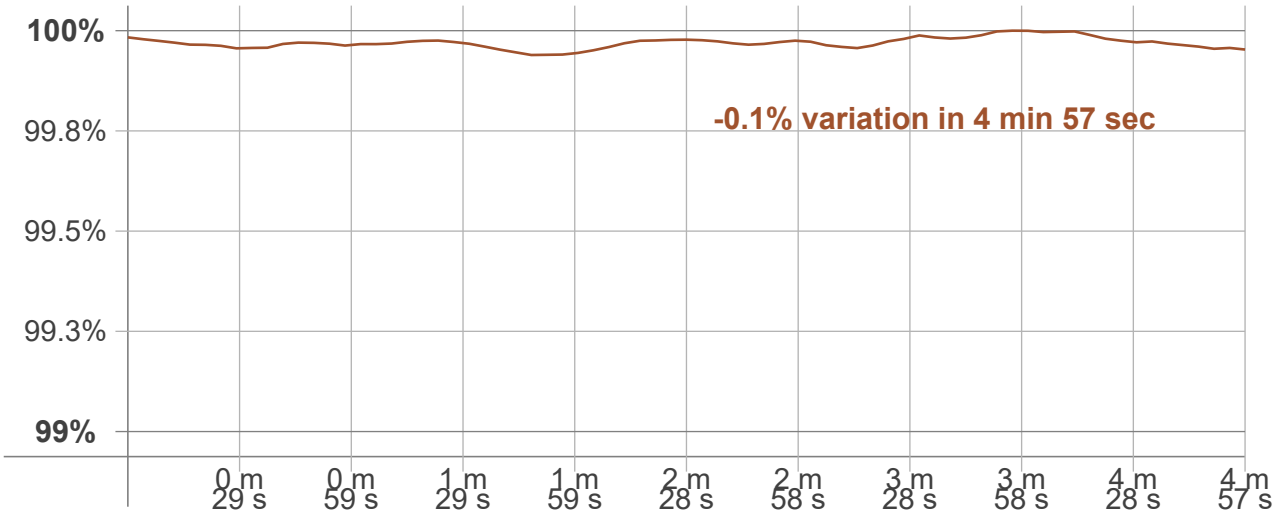
Efficiency

Radiated power efficiency	7.333
Lumen efficiency	35.45 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	4571 lm
Warmup variation	-0.0786%	Output change	-0.718 lm
		Output end	4570 lm

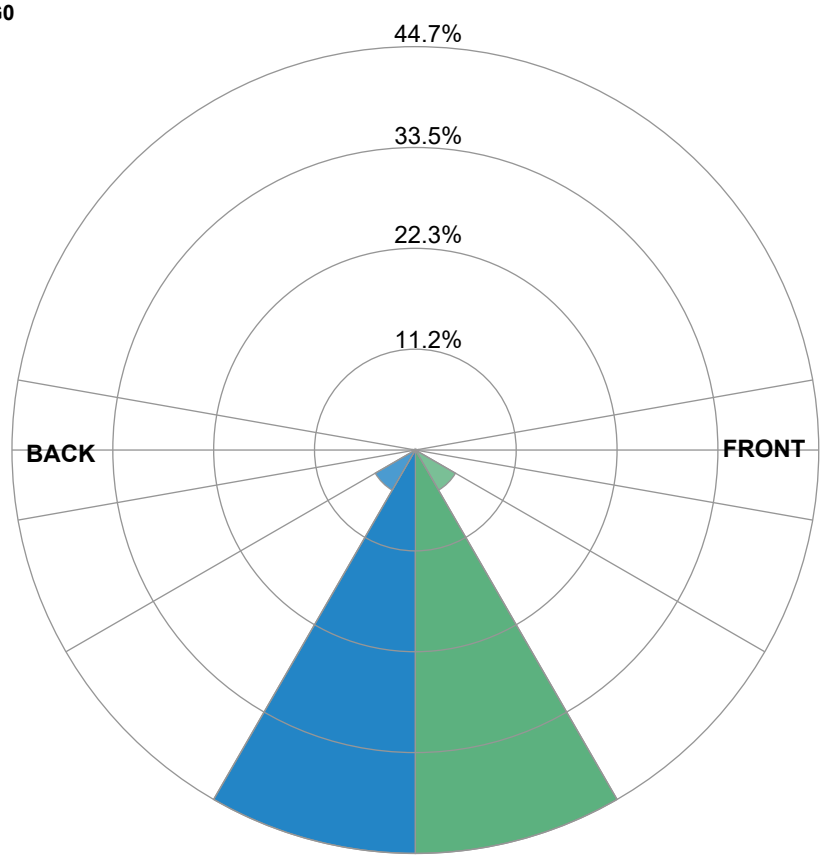
Stabilization Curve



Photometric Test Report

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

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

Forward Light			
Low (0-30°)	2040	lm	44.7%
Medium (30-60°)	234	lm	5.13%
High (60-80°)	9.96	lm	0.218%
Very High (80-90°)	0	lm	0%
Back Light			
Low (0-30°)	2040	lm	44.7%
Medium (30-60°)	234	lm	5.13%
High (60-80°)	9.96	lm	0.218%
Very High (80-90°)	0	lm	0%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	4570	lm	100%

BUG RATING B3 U0 G0