Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-60-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.May.25-8870-VO
Measurement date	2026-05-25

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	2.00°
Input Power	128.9 W

Electrical Data

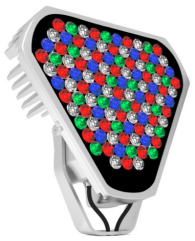
Input Power	128.9 W
Input Voltage	381.4 V DC
Input Current	0.34 A
Power Factor	1.00

Tested Light Source

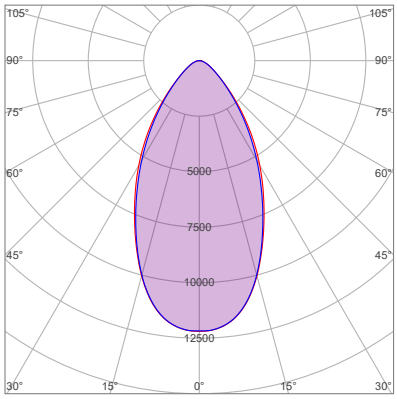
Product family	FL200-G2
Luminaire configuration	FL200-G2-XXX-RGBW3083-OM-60-INF-XXXXX-X (W)
Manufacturer	GVA Lighting, Inc.
Size (width x length x height)	106 mm 0 mm x 430 mm

Main Light Measurement Results

Output – Total Lumen	12416 - 0.2723% / 99.73%
Efficiency	96.31 lm/W
Peak Intensity	12200
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	55.4°
Beam Angle (FWHM) | C90/270	53.8°
Field Angle (10%) | C0/180	100.8°Unit: 0-100% of peak intensity
Optical Power	37159 mW
Peak Wavelength	602 nm
Dominant Wavelength	584 nm

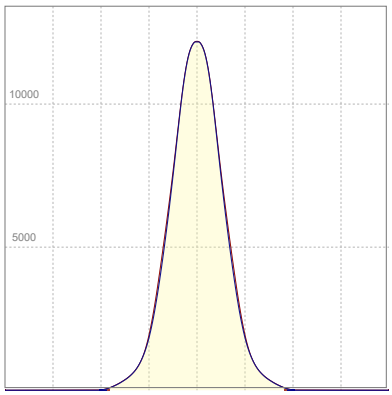


Polar Light Distribution Diagram
Unit: 0-100% of peak intensity

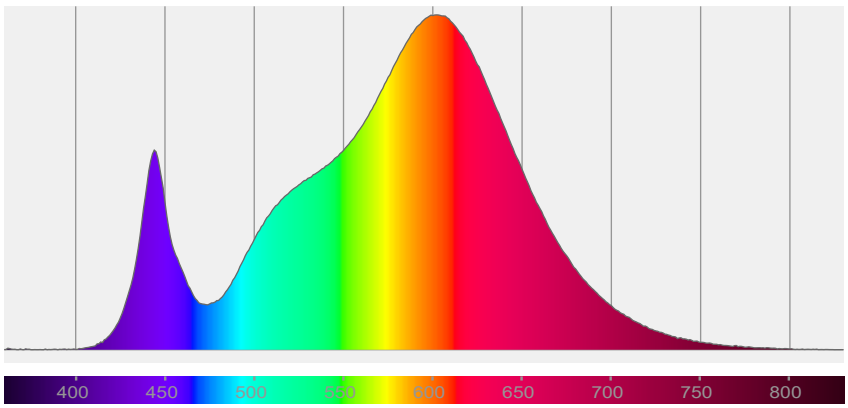


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

3035 K

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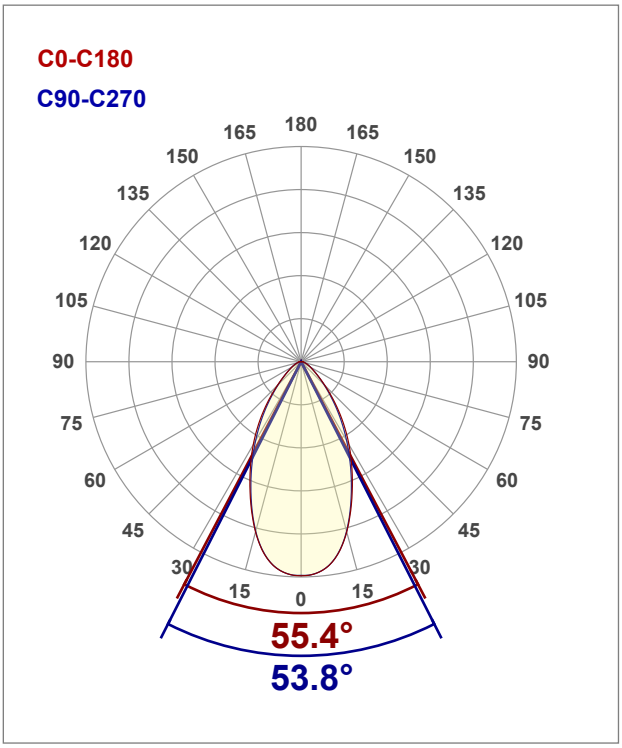
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	12416 lm
Lumen Up% / Down%	0.2723% / 99.73%
Peak Intensity	12200 cd
Beam Angle (50%-FWHM)	54.1°

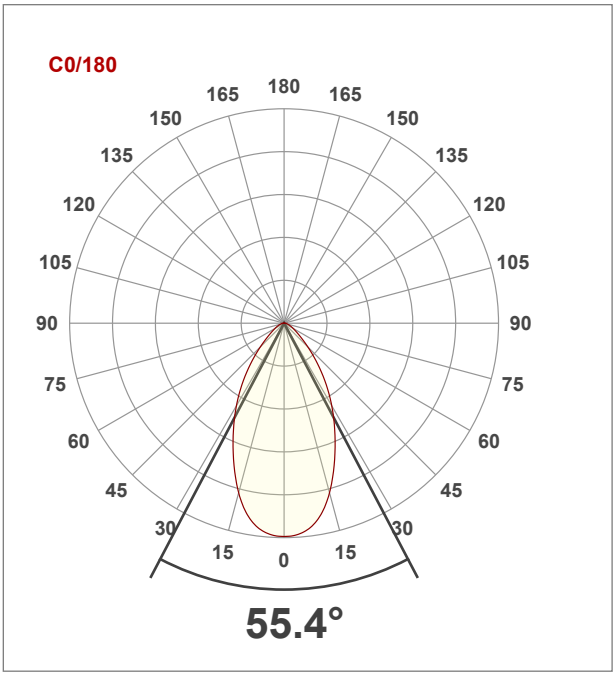
EU Ecodesign parameters

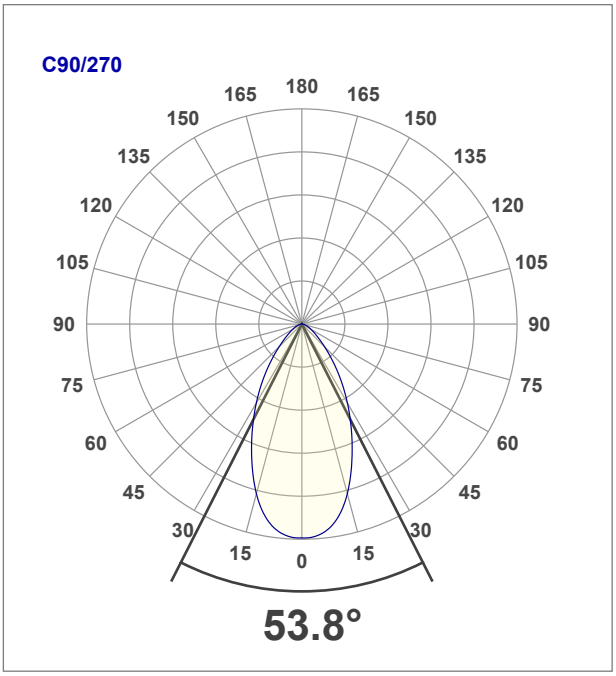
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	10.28 lm
Ecodesign Energy Class	F

Intensity Ratio

In 120° cone	94.07%
In 90° cone	82.81%

Angular Distribution





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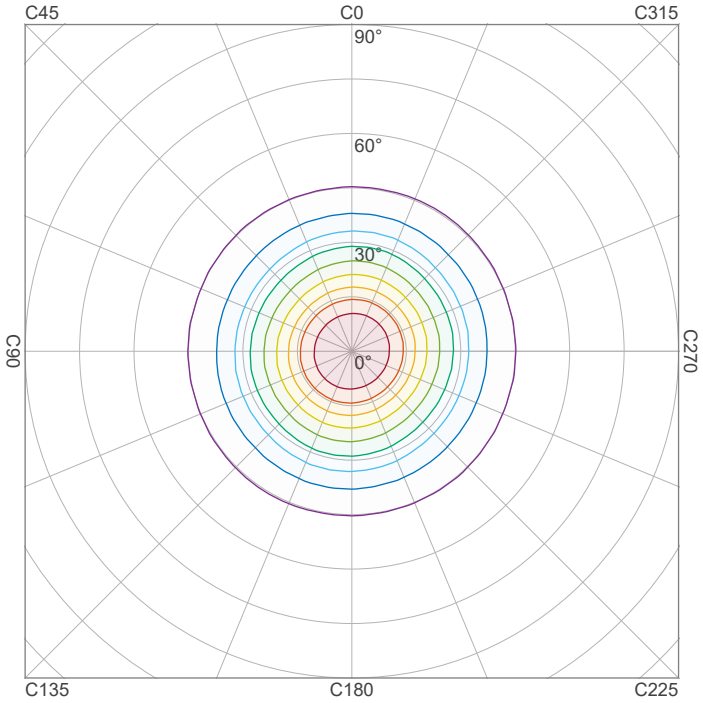
FL200-G2-XXX-RGBW3083-OM-60-INF-XXXXX-X (W)

Iso-intensity Diagram (Iso-candela)

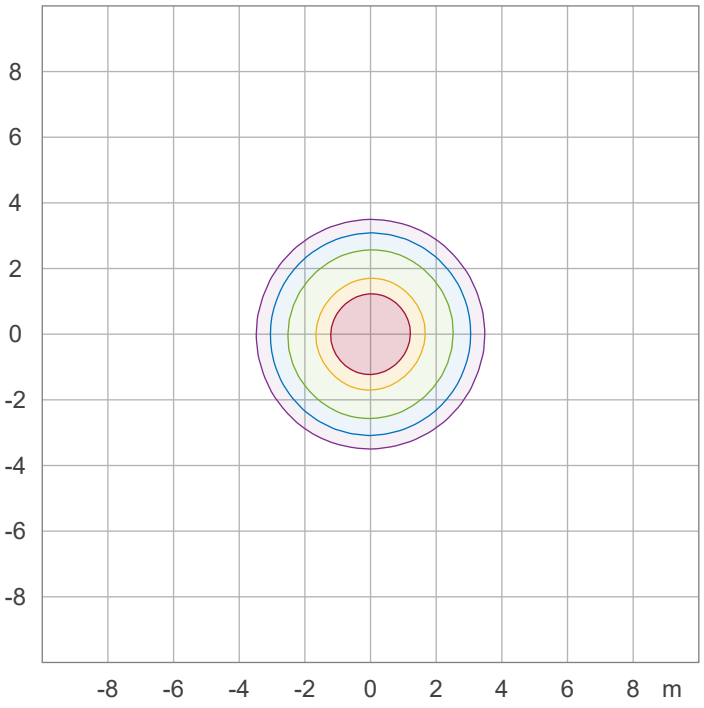


90 %	10975.1 cd
80 %	9755.6 cd
70 %	8536.2 cd
60 %	7316.7 cd
50 %	6097.3 cd
40 %	4877.8 cd
30 %	3658.4 cd
20 %	2438.9 cd
10 %	1219.5 cd

Peak intensity: 12194.5 cd

Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	677 lx
30.0 %	406 lx
10.0 %	135 lx
5.0 %	67.7 lx
3.0 %	40.6 lx

Peak illuminance: 1354 lx

Mounting height: 3 m

Number of c-planes: 36

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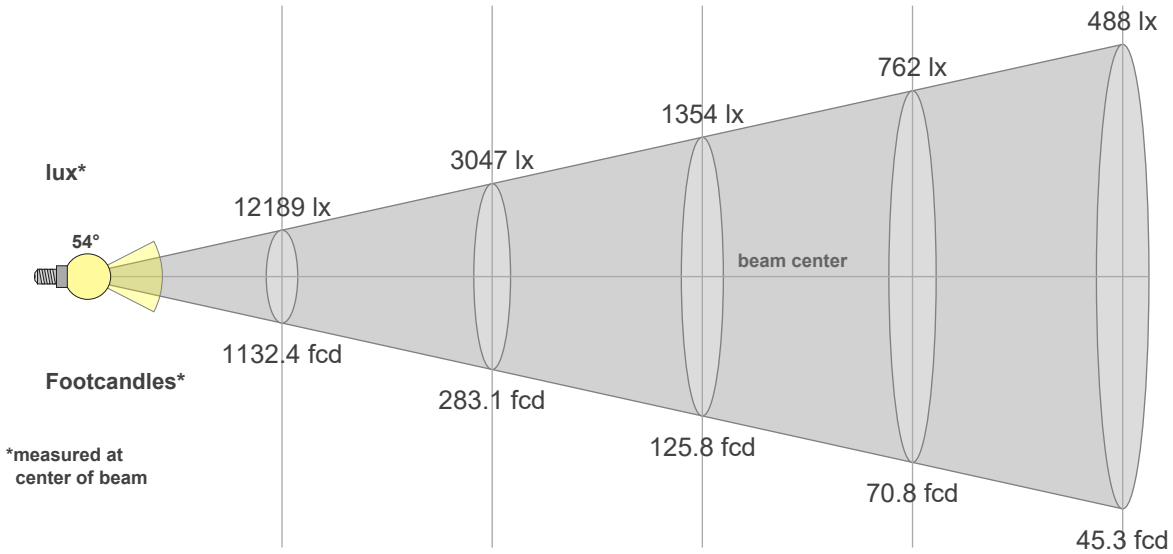
Beam details

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)	1 m	2 m	3.1 m	4.1 m	5.1 m
Beam width (feet)	3.4 ft	6.7 ft	10.1 ft	13.4 ft	16.8 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
12189	3047	1354	762	488	339	249	190	150	122	101	85	72	62	54	48	42	38	34	30	lux
1132.4	283.1	125.8	70.8	45.3	31.5	23.1	17.7	14	11.3	9.4	7.9	6.7	5.8	5	4.4	3.9	3.5	3.1	2.8	fc

Intensities in 0° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	γ
12.2k	12.0k	11.3k	10.0k	8.4k	6.9k	5.4k	4.1k	2.9k	1.9k	1.3k	0.8k	0.6k	0.4k	0.3k	0.2k	0.1k	0.0k	0.0k	0.0k	cd
100%	99%	93%	82%	69%	56%	45%	34%	24%	16%	10%	7%	5%	4%	3%	2%	1%	0%	0%	0%	of 0°val

Intensities in 90° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	γ
12.2k	12.0k	11.3k	10.0k	8.3k	6.7k	5.2k	3.9k	2.7k	1.8k	1.2k	0.9k	0.6k	0.4k	0.3k	0.2k	0.1k	0.0k	0.0k	0.0k	cd
100%	98%	93%	82%	68%	55%	43%	32%	22%	15%	10%	7%	5%	4%	2%	2%	1%	0%	0%	0%	of 0°val

Intensities in 180° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	γ
12.2k	12.0k	11.3k	10.0k	8.4k	6.9k	5.4k	4.1k	2.9k	1.9k	1.3k	0.8k	0.6k	0.4k	0.3k	0.2k	0.1k	0.0k	0.0k	0.0k	cd
100%	99%	93%	82%	69%	56%	45%	34%	24%	16%	10%	7%	5%	4%	3%	2%	1%	0%	0%	0%	of 0°val

Intensities in 270° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	γ
12.2k	12.0k	11.3k	10.0k	8.3k	6.7k	5.2k	3.9k	2.7k	1.8k	1.2k	0.9k	0.6k	0.4k	0.3k	0.2k	0.1k	0.0k	0.0k	0.0k	cd
100%	98%	93%	82%	68%	55%	43%	32%	22%	15%	10%	7%	5%	4%	2%	2%	1%	0%	0%	0%	of 0°val

Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-60-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	381.4 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

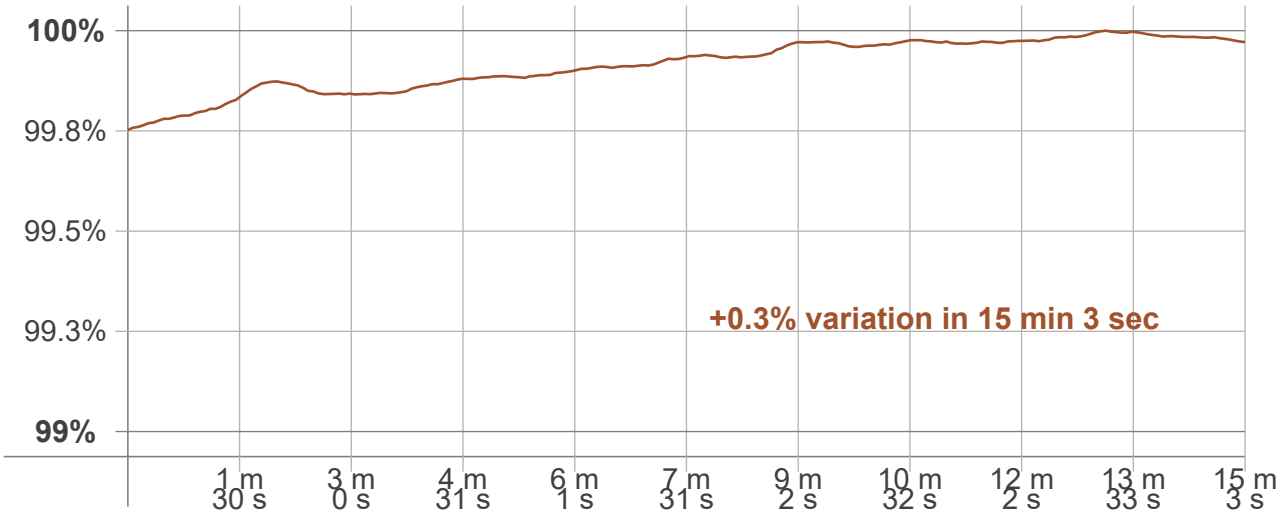
Efficiency

Radiated power efficiency	28.83
Lumen efficiency	96.31 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 3 sec	Output start	12.39 lm
Warmup variation	0.3152%	Output change	30.64 lm
		Output end	12.42 lm

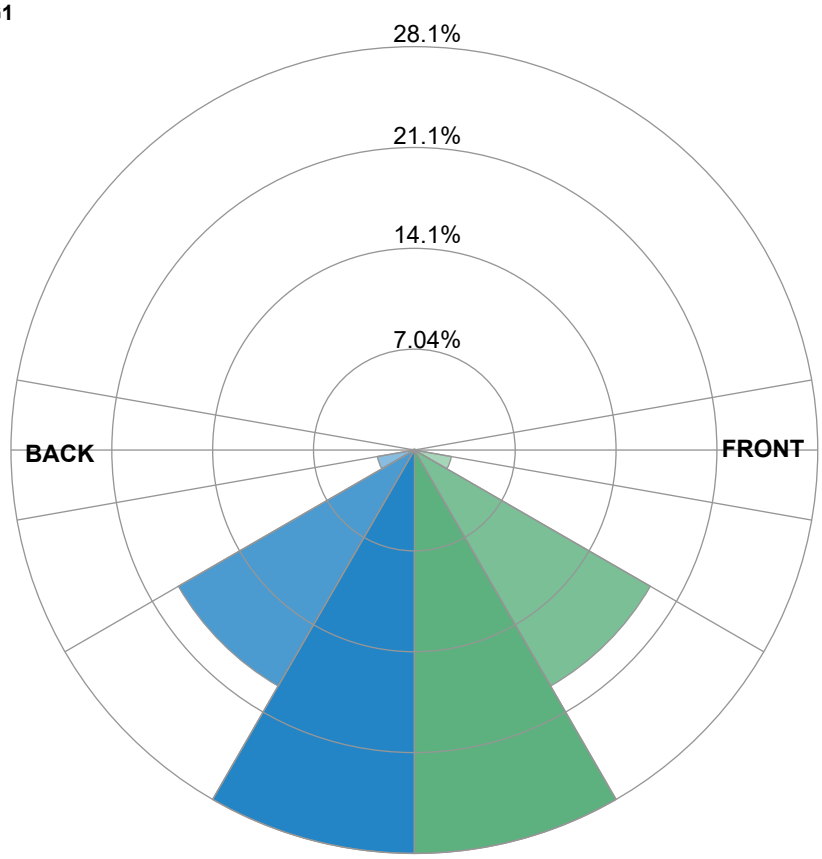
Stabilization Curve



Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-60-INF-XXXXX-X (W)

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

Forward Light			
Low (0-30°)	3490	lm	28.1%
Medium (30-60°)	2360	lm	19.0%
High (60-80°)	325	lm	2.62%
Very High (80-90°)	27.8	lm	0.224%
Back Light			
Low (0-30°)	3490	lm	28.1%
Medium (30-60°)	2360	lm	19.0%
High (60-80°)	325	lm	2.62%
Very High (80-90°)	27.8	lm	0.224%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	12.42	lm	100%

BUG RATING B4 U0 G1