Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-20-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.May.27-8931-VO
Measurement date	2026-05-27

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	1.00°
Input Power	129 W

Electrical Data

Input Power	129 W
Input Voltage	381.6 V DC
Input Current	0.34 A
Power Factor	1.00

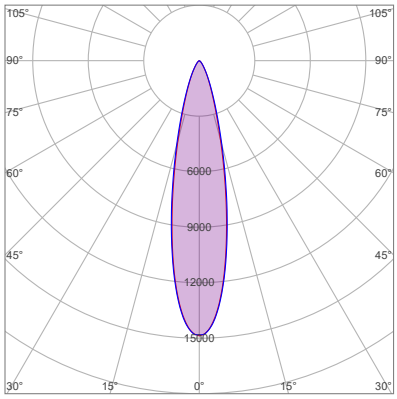
Tested Light Source

Product family	FL200-G2
Luminaire configuration	FL200-G2-XXX-RGBW3083-OM-20-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

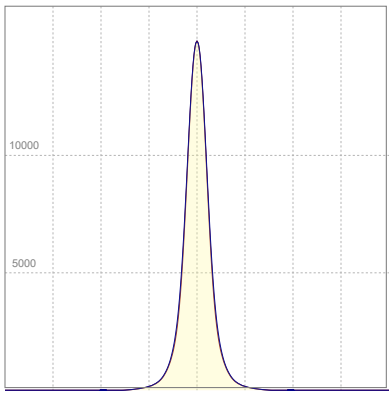
Output – Total Lumen	3418 - 0% / 100%
Efficiency	26.5 lm/W
Peak Intensity	14866
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	22.3°
Beam Angle (FWHM) | C90/270	22.9°
Field Angle (10%) | C0/180	46.7°Unit: 0-100% of peak intensity
Optical Power	17649 mW
Peak Wavelength	633 nm
Dominant Wavelength	622 nm

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

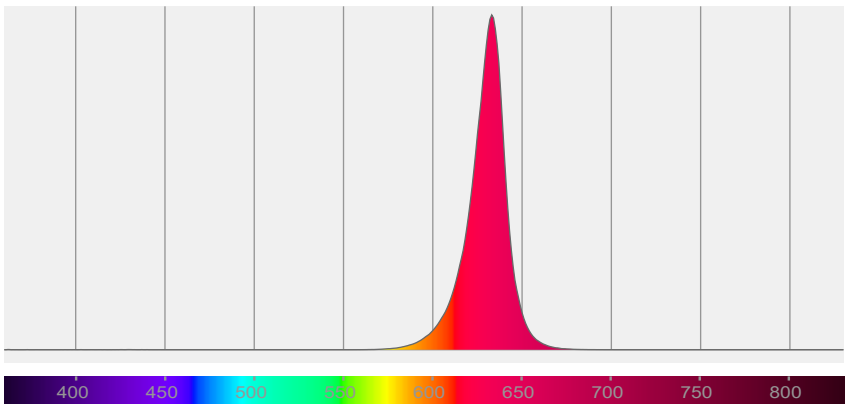


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

NaN K

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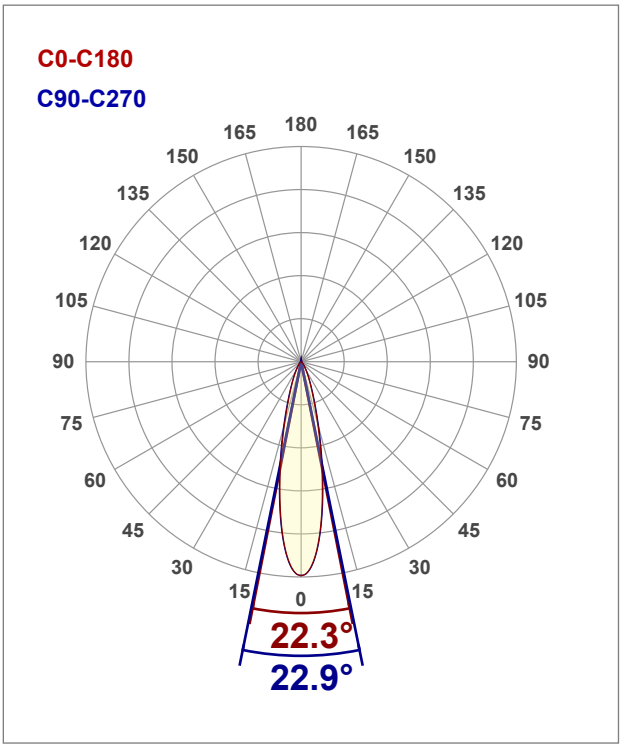
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	3418 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	14866 cd
Beam Angle (50%-FWHM)	22.5°

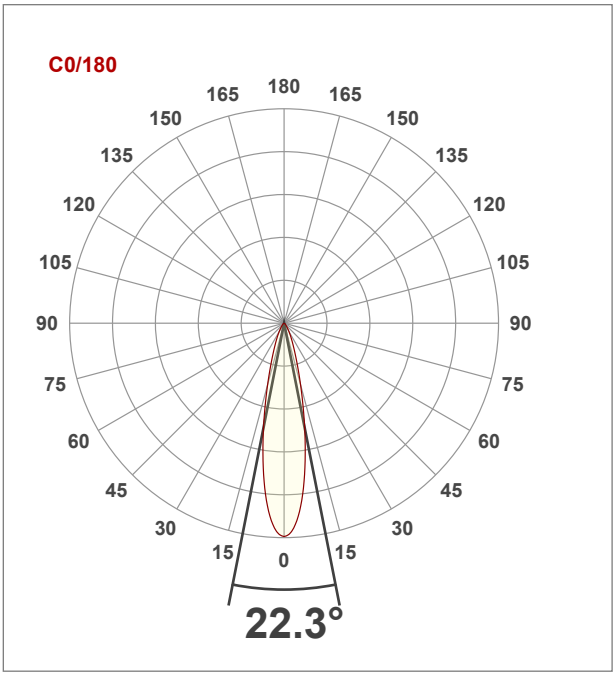
EU Ecodesign parameters

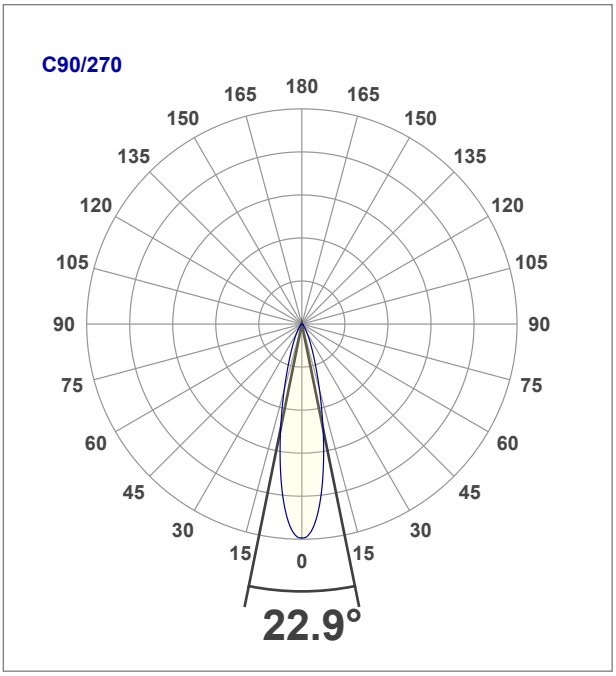
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	3297 lm
Ecodesign Energy Class	G

Intensity Ratio

In 120° cone	99.65%
In 90° cone	96.46%

Angular Distribution





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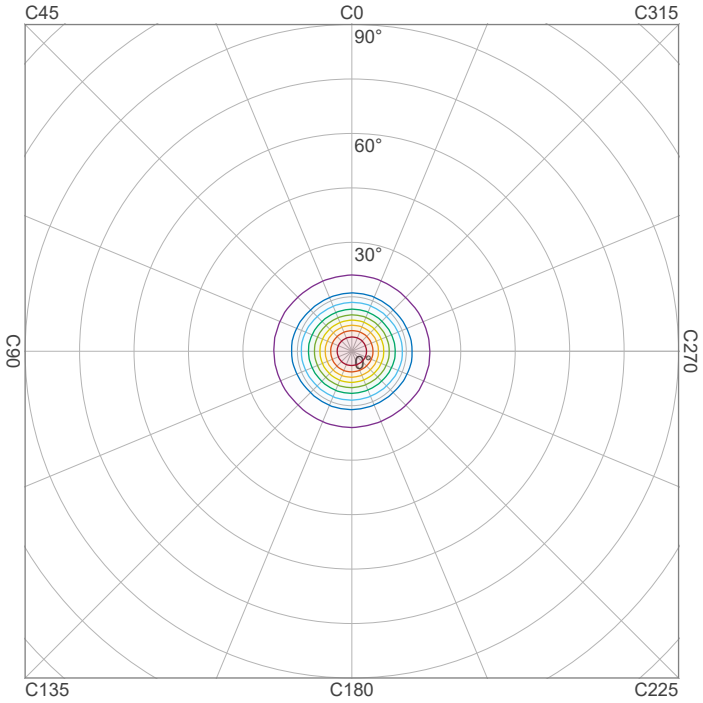
Iso-intensity Diagram (Iso-candela)

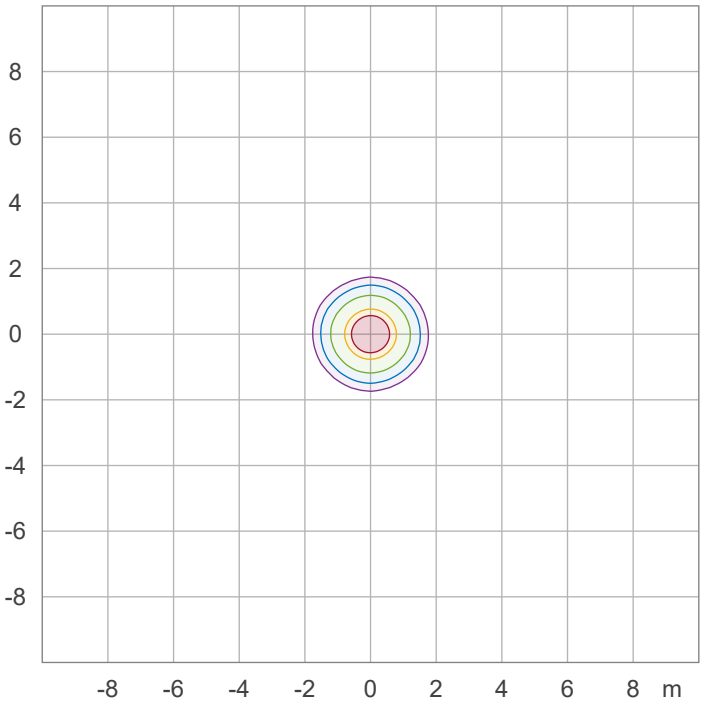


90 %	13355.9 cd
80 %	11871.9 cd
70 %	10387.9 cd
60 %	8903.9 cd
50 %	7419.9 cd
40 %	5935.9 cd
30 %	4452.0 cd
20 %	2968.0 cd
10 %	1484.0 cd

Peak intensity: 14839.9 cd

Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	824 lx
30.0 %	495 lx
10.0 %	165 lx
5.0 %	82.4 lx
3.0 %	49.5 lx

Peak illuminance: 1649 lx

Mounting height: 3 m

Number of c-planes: 36

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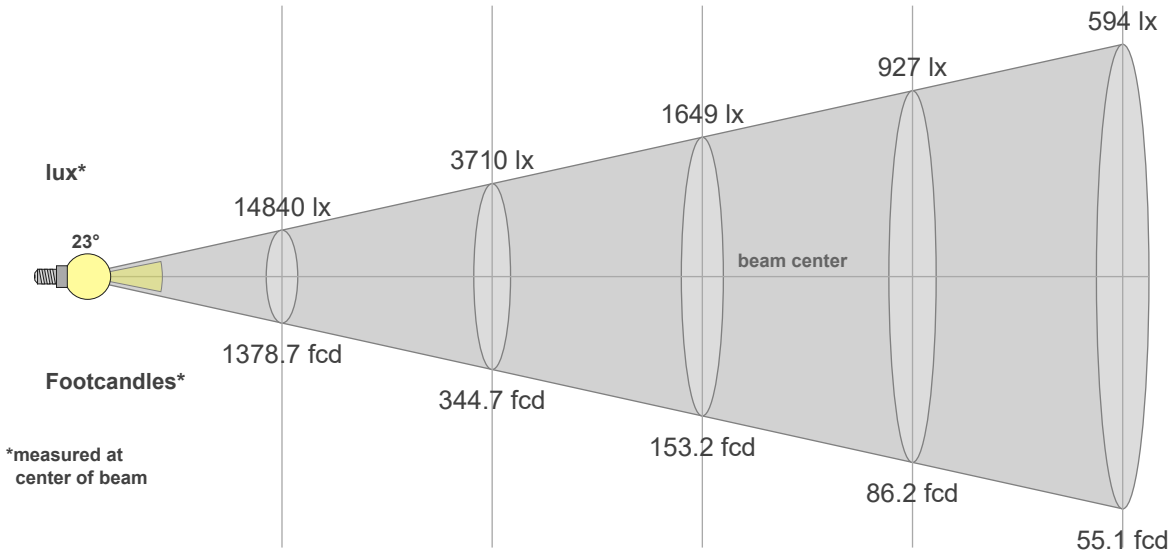
Beam details

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)	0.4 m	0.8 m	1.2 m	1.6 m	2 m
Beam width (feet)	1.3 ft	2.6 ft	3.9 ft	5.2 ft	6.5 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
14840	3710	1649	927	594	412	303	232	183	148	123	103	88	76	66	58	51	46	41	37	lux
1378.7	344.7	153.2	86.2	55.1	38.3	28.1	21.5	17	13.8	11.4	9.6	8.2	7	6.1	5.4	4.8	4.3	3.8	3.4	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
14.8k	14.5k	13.6k	12.2k	10.4k	8.5k	6.7k	5.1k	3.9k	2.9k	2.2k	1.7k	1.4k	1.1k	0.9k	0.7k	0.6k	0.4k	0.4k	0.3k	cd
100%	98%	92%	82%	70%	57%	45%	34%	26%	20%	15%	12%	9%	7%	6%	5%	4%	3%	2%	2%	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
14.8k	14.6k	13.7k	12.3k	10.5k	8.7k	6.9k	5.4k	4.1k	3.1k	2.4k	1.9k	1.5k	1.1k	0.9k	0.7k	0.6k	0.5k	0.4k	0.3k	cd
100%	98%	92%	83%	71%	58%	47%	36%	28%	21%	16%	13%	10%	8%	6%	5%	4%	3%	3%	2%	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
14.8k	14.5k	13.6k	12.2k	10.4k	8.5k	6.7k	5.1k	3.9k	2.9k	2.2k	1.7k	1.4k	1.1k	0.9k	0.7k	0.6k	0.4k	0.4k	0.3k	cd
100%	98%	92%	82%	70%	57%	45%	34%	26%	20%	15%	12%	9%	7%	6%	5%	4%	3%	2%	2%	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
14.8k	14.6k	13.7k	12.3k	10.5k	8.7k	6.9k	5.4k	4.1k	3.1k	2.4k	1.9k	1.5k	1.1k	0.9k	0.7k	0.6k	0.5k	0.4k	0.3k	cd
100%	98%	92%	83%	71%	58%	47%	36%	28%	21%	16%	13%	10%	8%	6%	5%	4%	3%	3%	2%	of 0°val

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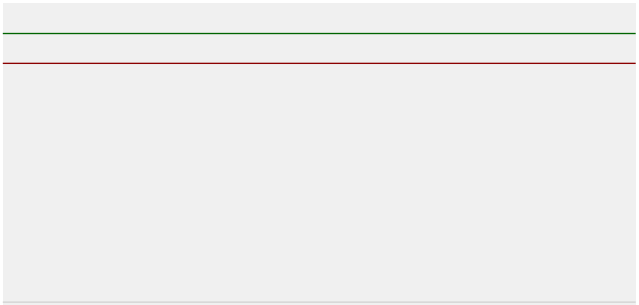
FL200-G2-XXX-RGBW3083-OM-20-INF-XXXXX-X (R)

Power details

Input power	
Frequency of input power	0.0 Hz
Power feed to light source	129 W
RMS Input voltage feed V,RMS	381.6 V
RMS Input current feed I,RMS	0.34 A
Volt-Amp or apparent power = V,RMS*I,RMS	129.0 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



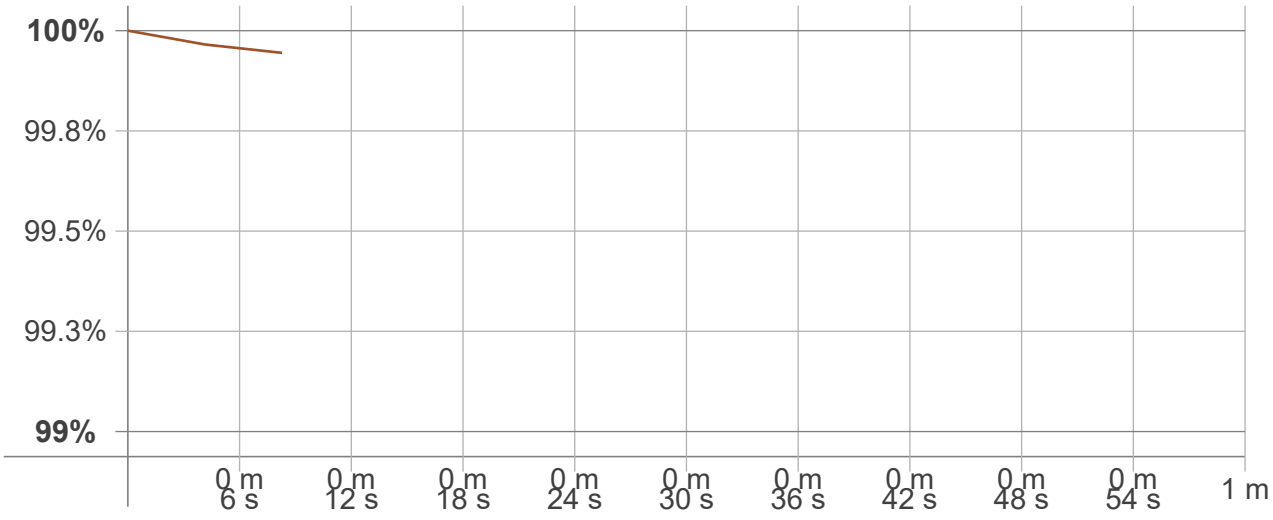
Efficiency

Radiated power efficiency	13.68
Lumen efficiency	26.5 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	3420 lm
Warmup variation	-0.0553%	Output change	-1.8917 lm
		Output end	3418 lm

Stabilization Curve



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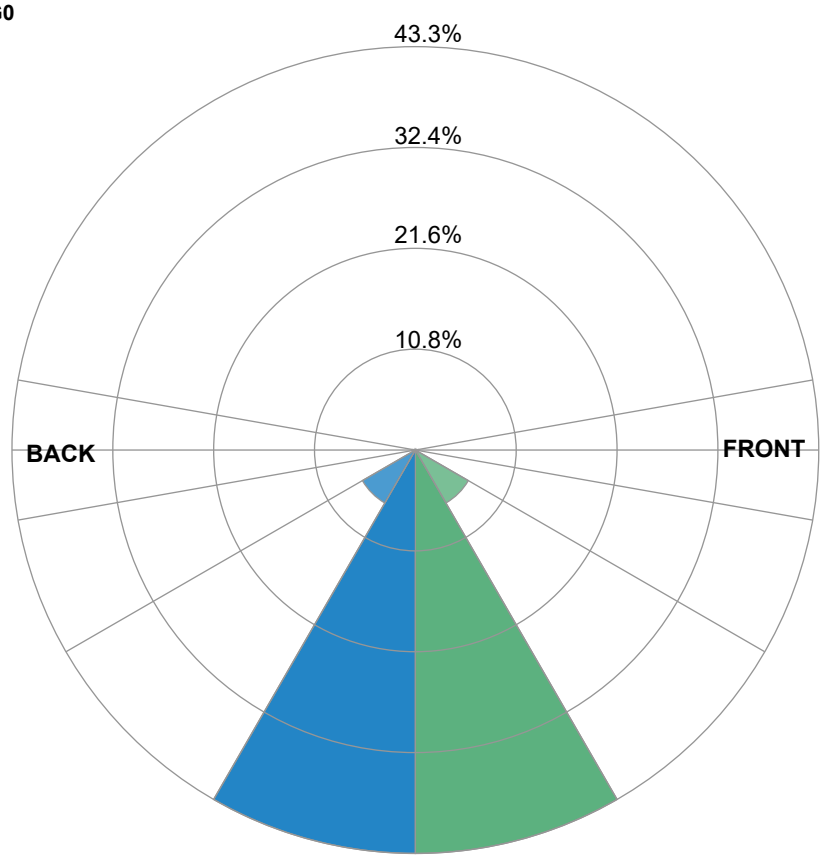
FL200-G2-XXX-RGBW3083-OM-20-INF-XXXXX-X (R)

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

Forward Light			
Low (0-30°)	1480	lm	43.3%
Medium (30-60°)	224	lm	6.56%
High (60-80°)	6.20	lm	0.181%
Very High (80-90°)	0	lm	0%
Back Light			
Low (0-30°)	1480	lm	43.3%
Medium (30-60°)	224	lm	6.56%
High (60-80°)	6.20	lm	0.181%
Very High (80-90°)	0	lm	0%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	3418	lm	100%

BUG RATING B3 U0 G0