Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-20L-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.Jun.02-9289-VO
Measurement date	2026-06-02

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

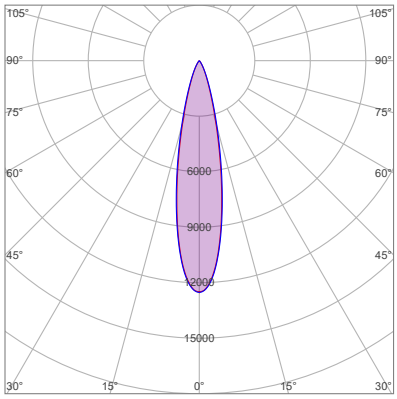
Tested Light Source

Product family	FL200-G2
Luminaire configuration	FL200-G2-XXX-RGBW3083-OM-20L-INF-XXXXX-X (R)
Manufacturer	GVA Lighting, Inc.
Size (width x length x height)	0 mm 0 mm x 10 mm

Main Light Measurement Results

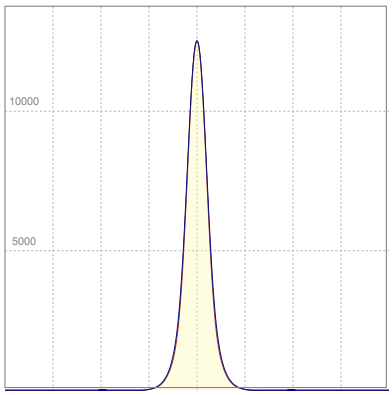
Output – Total Lumen	2431 - 0% / 100%
Efficiency	18.85 lm/W
Peak Intensity	12510
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	21.7°
Beam Angle (FWHM) | C90/270	22.3°
Field Angle (10%) | C0/180	43.1°Unit: 0-100% of peak intensity
Optical Power	12584 mW
Peak Wavelength	633 nm
Dominant Wavelength	622 nm

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

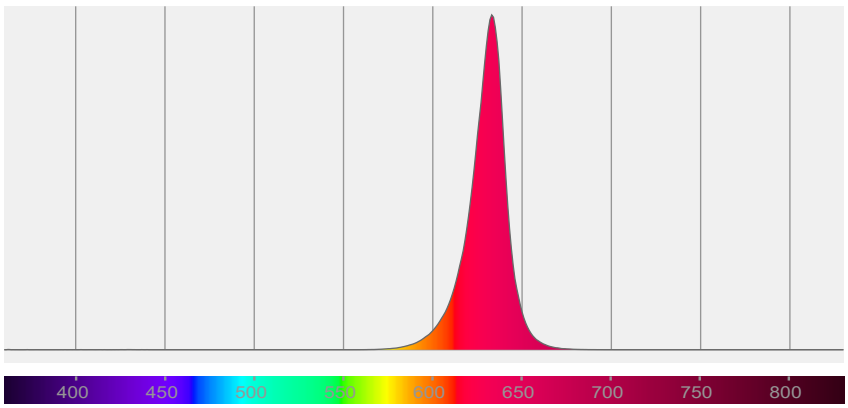


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

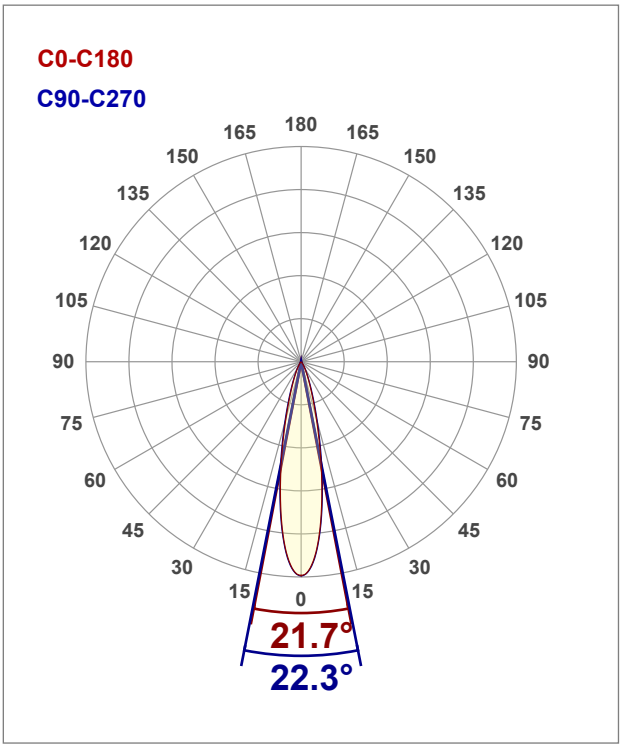
NaN K

Photometric Test Report

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

Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	2431 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	12510 cd
Beam Angle (50%-FWHM)	21.9°

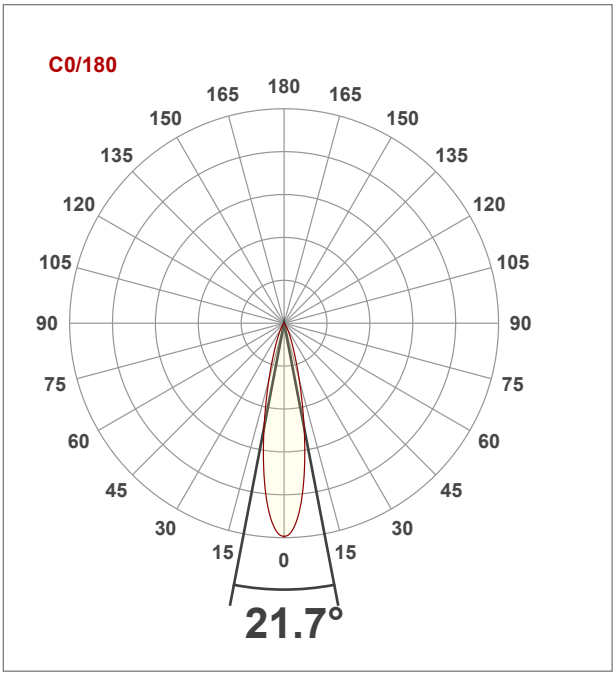
EU Ecodesign parameters

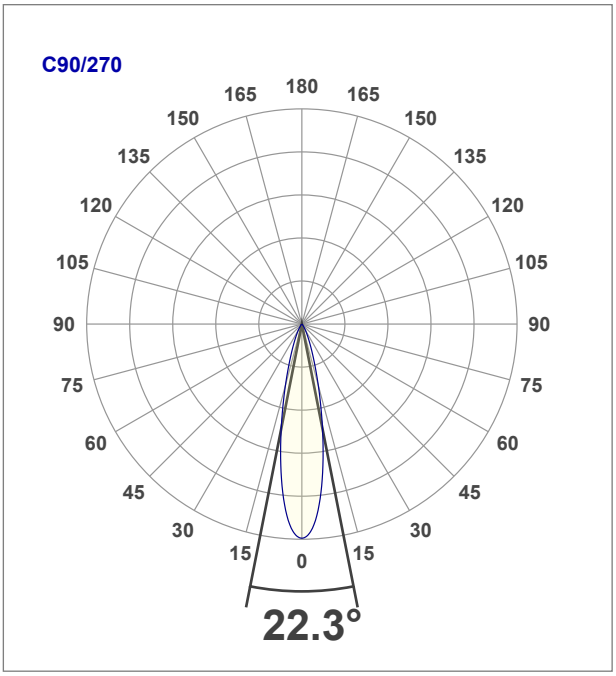
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	2424 lm
Ecodesign Energy Class	G

Intensity Ratio

In 120° cone	100%
In 90° cone	99.73%

Angular Distribution

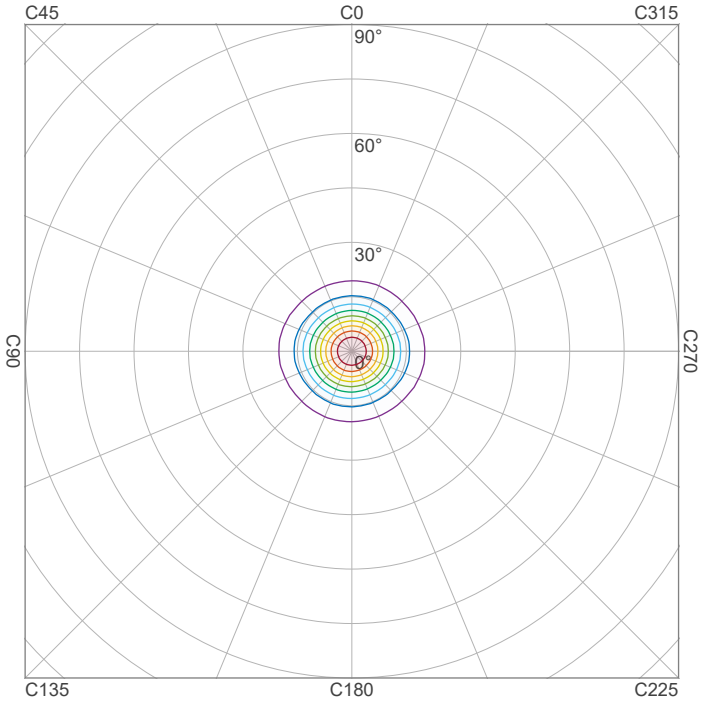




Photometric Test Report

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

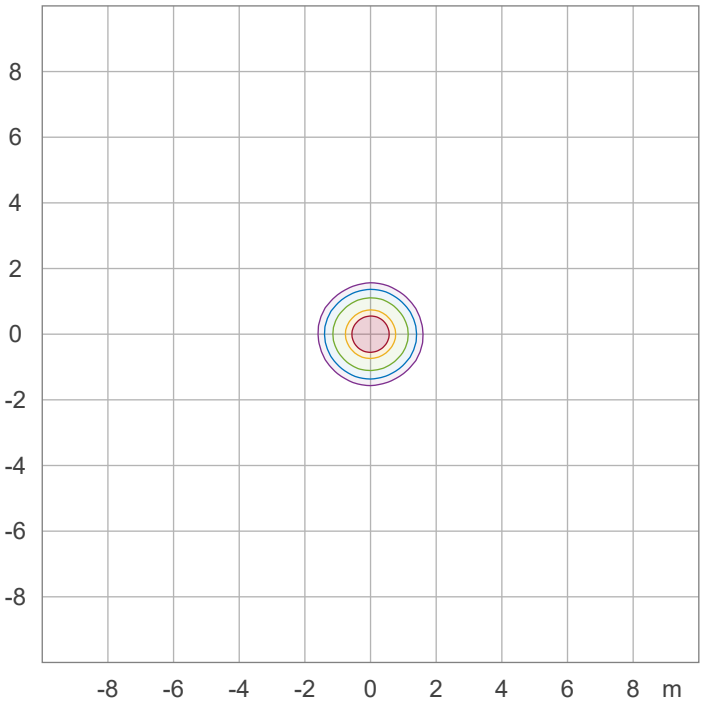
Iso-intensity Diagram (Iso-candela)



90 %	11244.2 cd
80 %	9994.9 cd
70 %	8745.5 cd
60 %	7496.1 cd
50 %	6246.8 cd
40 %	4997.4 cd
30 %	3748.1 cd
20 %	2498.7 cd
10 %	1249.4 cd

Peak intensity: 12493.6 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



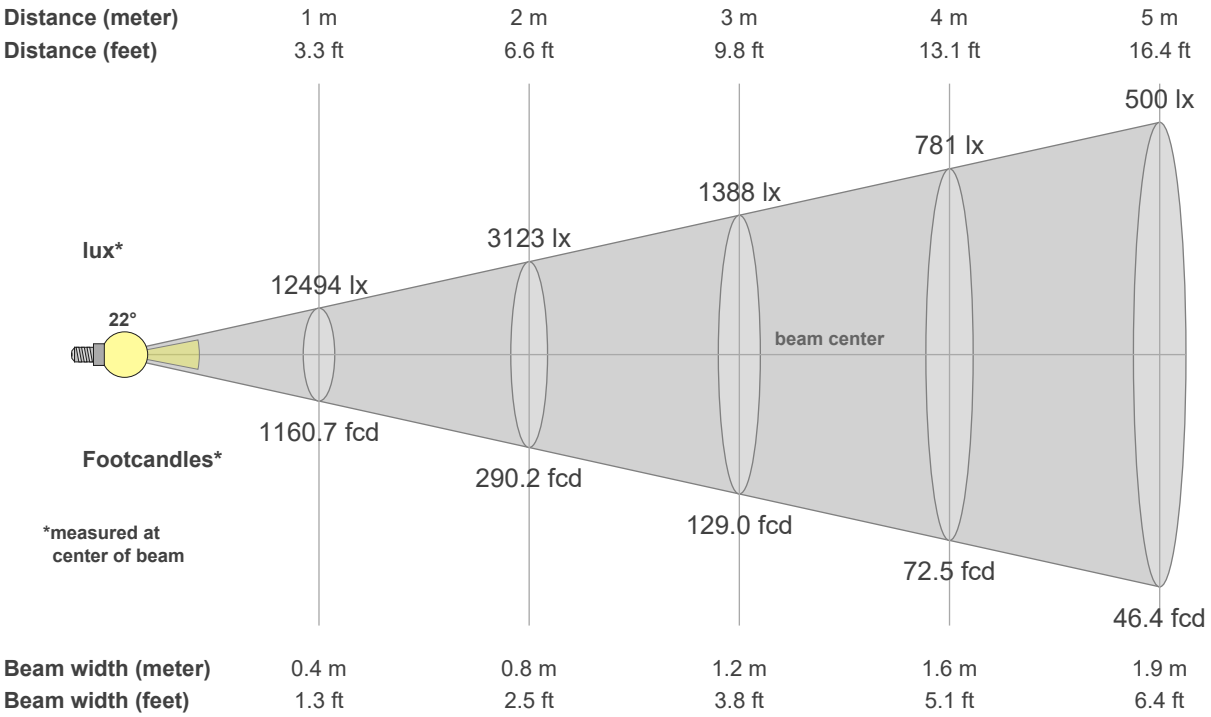
50.0 %	694 lx
30.0 %	416 lx
10.0 %	139 lx
5.0 %	69.4 lx
3.0 %	41.6 lx

Peak illuminance: 1388 lx
Mounting height: 3 m
Number of c-planes: 36

Photometric Test Report

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

Beam details



Beam width (meter)	0.4 m	0.8 m	1.2 m	1.6 m	1.9 m
Beam width (feet)	1.3 ft	2.5 ft	3.8 ft	5.1 ft	6.4 ft

Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-20L-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
12494	3123	1388	781	500	347	255	195	154	125	103	87	74	64	56	49	43	39	35	31	lux
1160.7	290.2	129	72.5	46.4	32.2	23.7	18.1	14.3	11.6	9.6	8.1	6.9	5.9	5.2	4.5	4	3.6	3.2	2.9	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
12.5k	12.2k	11.4k	10.2k	8.6k	6.9k	5.4k	4.0k	2.9k	2.1k	1.6k	1.2k	0.9k	0.7k	0.5k	0.4k	0.3k	0.2k	0.1k	0.1k	cd
100%	98%	91%	81%	69%	55%	43%	32%	24%	17%	13%	9%	7%	5%	4%	3%	2%	2%	1%	1%	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
12.5k	12.2k	11.5k	10.2k	8.7k	7.1k	5.6k	4.3k	3.2k	2.4k	1.8k	1.3k	1.0k	0.7k	0.6k	0.4k	0.3k	0.2k	0.2k	0.1k	cd
100%	98%	92%	82%	70%	57%	45%	34%	26%	19%	14%	10%	8%	6%	4%	3%	2%	2%	1%	1%	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
12.5k	12.2k	11.4k	10.2k	8.6k	6.9k	5.4k	4.0k	2.9k	2.1k	1.6k	1.2k	0.9k	0.7k	0.5k	0.4k	0.3k	0.2k	0.1k	0.1k	cd
100%	98%	91%	81%	69%	55%	43%	32%	24%	17%	13%	9%	7%	5%	4%	3%	2%	2%	1%	1%	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
12.5k	12.2k	11.5k	10.2k	8.7k	7.1k	5.6k	4.3k	3.2k	2.4k	1.8k	1.3k	1.0k	0.7k	0.6k	0.4k	0.3k	0.2k	0.2k	0.1k	cd
100%	98%	92%	82%	70%	57%	45%	34%	26%	19%	14%	10%	8%	6%	4%	3%	2%	2%	1%	1%	of 0°val

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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

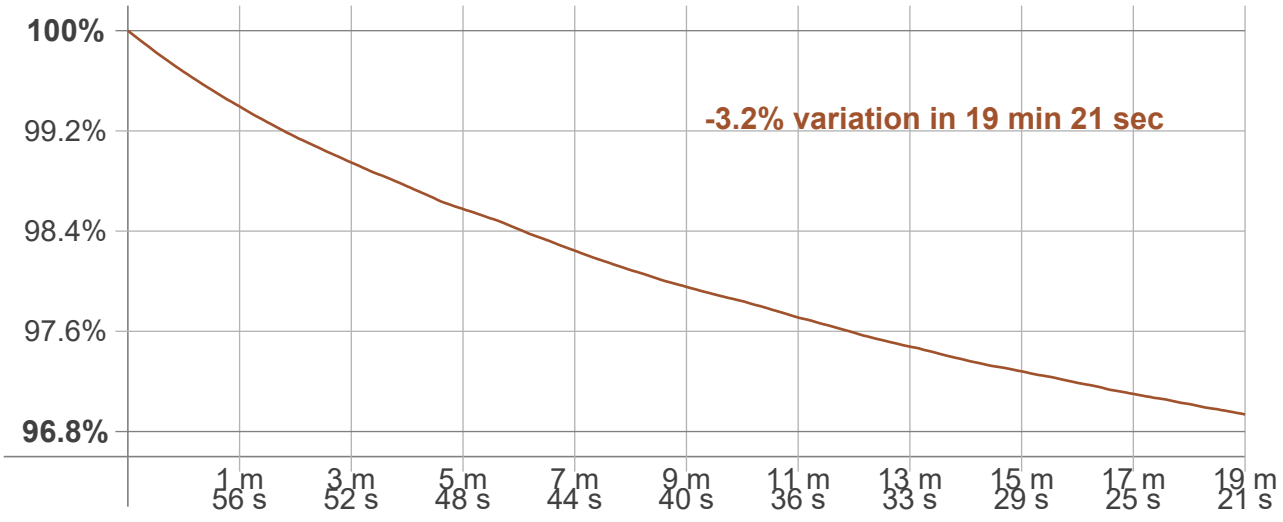
Efficiency

Radiated power efficiency	9.757
Lumen efficiency	18.85 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 19 min 21 sec	Output start	2510 lm
Warmup variation	-3.2196%	Output change	-79.135 lm
		Output end	2431 lm

Stabilization Curve



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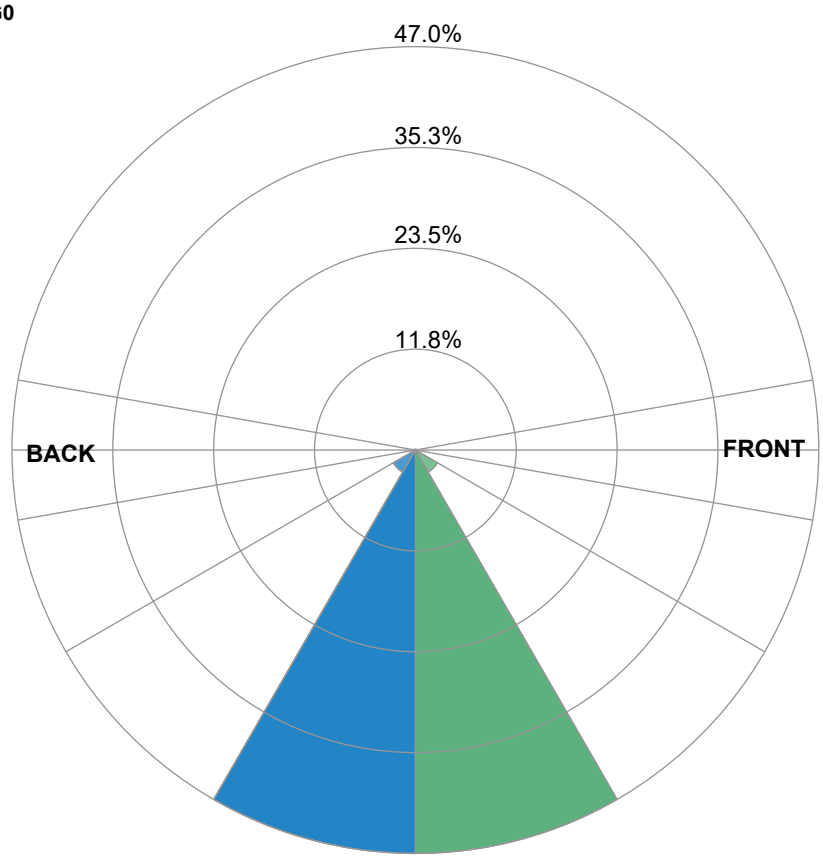
FL200-G2-XXX-RGBW3083-OM-20L-INF-XXXXX-X (R)

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

Forward Light			
Low (0-30°)	1140	lm	47.0%
Medium (30-60°)	72.6	lm	2.99%
High (60-80°)	0	lm	0%
Very High (80-90°)	0	lm	0%
Back Light			
Low (0-30°)	1140	lm	47.0%
Medium (30-60°)	72.6	lm	2.99%
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	2431	lm	100%

BUG RATING B3 U0 G0