Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-7-INF-XXXXX-X (ALL ON)

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.Mar.16-7349-VO
Measurement date	2026-03-16

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	0.36°
Input Power	0 W

Electrical Data

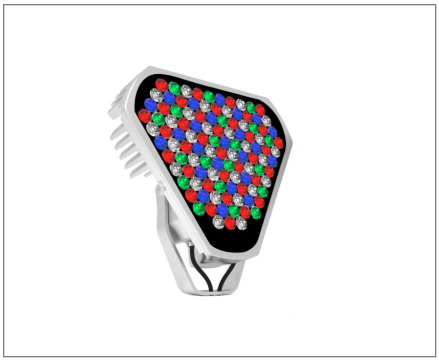
Input Power	0 W
Input Voltage	117.9 V DC
Input Current	0.00 A
Power Factor	NaN

Tested Light Source

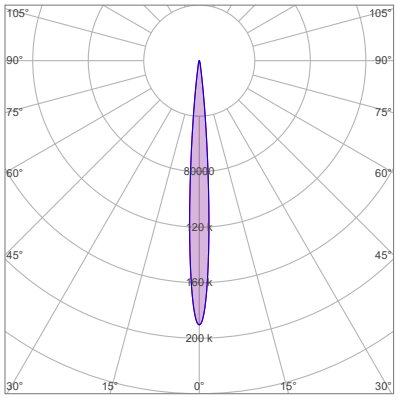
Product family	FL200-G2
Luminaire configuration	FL200-G2-XXX-RGBW3083-OM-7-INF-XXXXX-X (ALL ON)
Manufacturer	GVA Lighting, Inc.
Size (width x length x height)	106 mm 0 mm x 430 mm

Main Light Measurement Results

Output – Total Lumen	5727 - 0% / 100%
Efficiency	∞ lm/W
Peak Intensity	190262
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	8.1°
Beam Angle (FWHM) | C90/270	8.1°
Field Angle (10%) | C0/180	15.1°Unit: 0-100% of peak intensity
Optical Power	28866 mW
Peak Wavelength	453 nm
Dominant Wavelength	557 nm

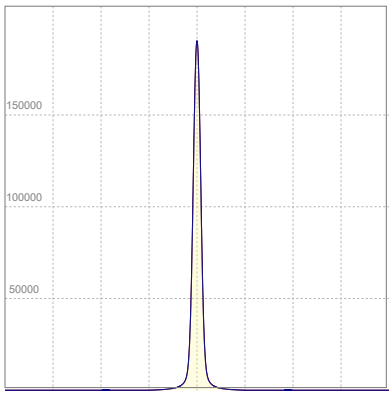


Polar Light Distribution Diagram
Unit: 0-100% of peak intensity

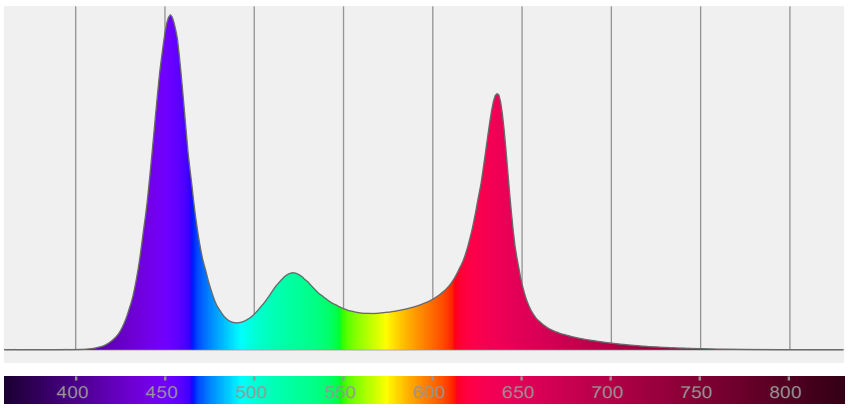


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

NaN K

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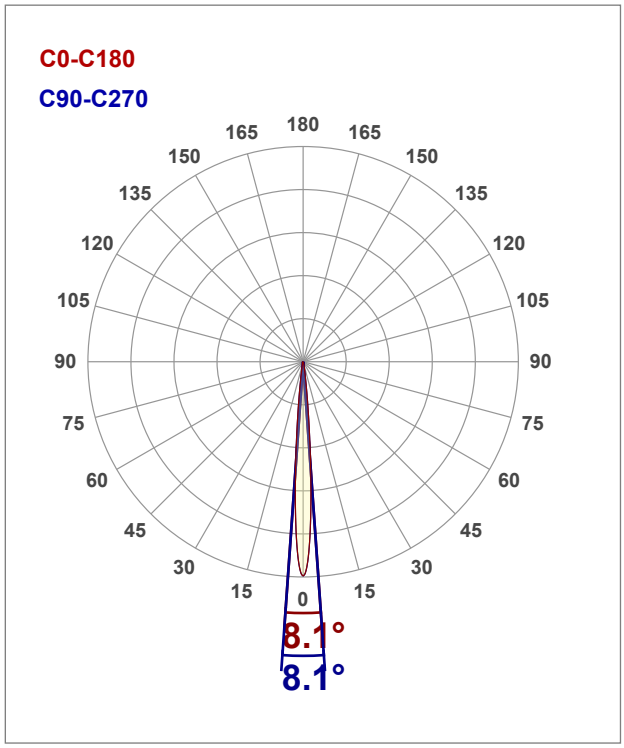
FL200-G2-XXX-RGBW3083-OM-7-INF-XXXXX-X (ALL ON)

Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	5727 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	190262 cd
Beam Angle (50%-FWHM)	8.1°

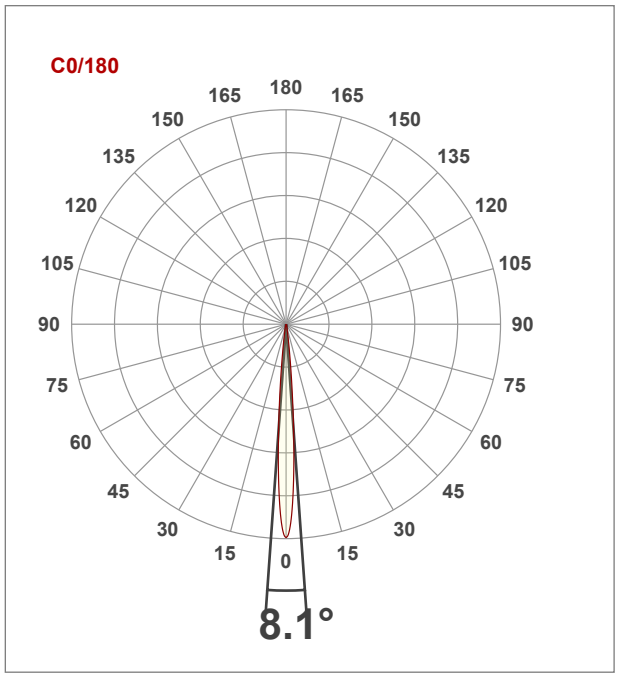
EU Ecodesign parameters

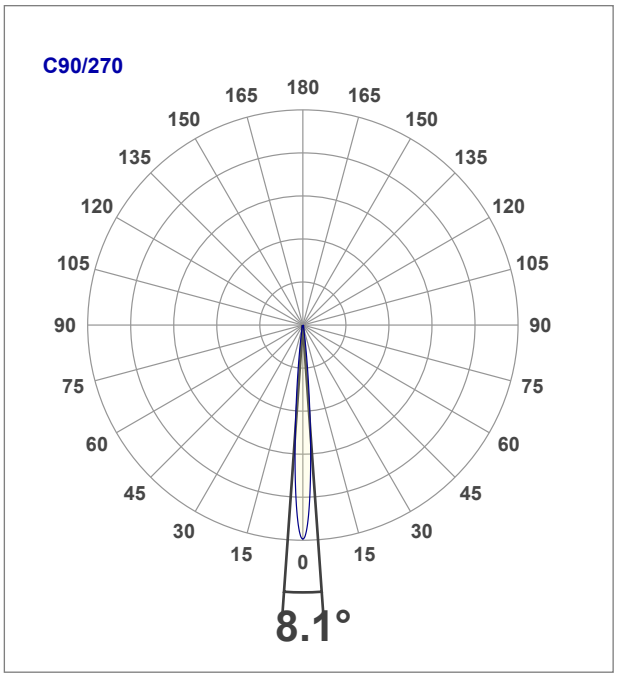
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	5724 lm
Ecodesign Energy Class	A

Intensity Ratio

In 120° cone	100%
In 90° cone	99.95%

Angular Distribution





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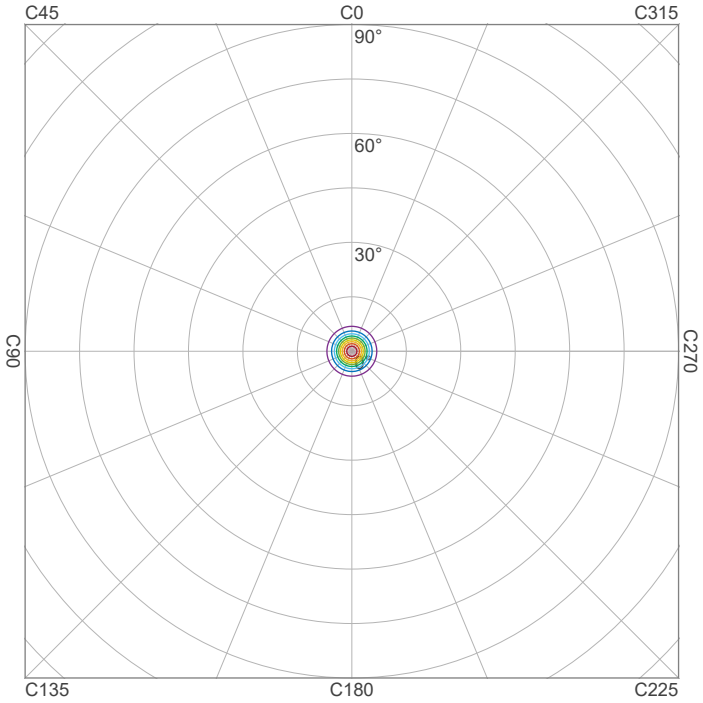
FL200-G2-XXX-RGBW3083-OM-7-INF-XXXXX-X (ALL ON)

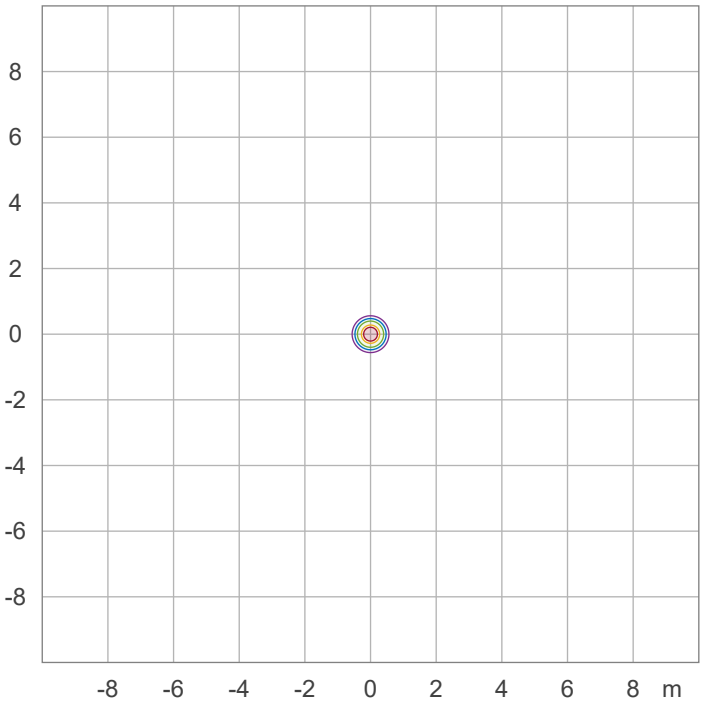
Iso-intensity Diagram (Iso-candela)



90 %	171235.6 cd
80 %	152209.4 cd
70 %	133183.2 cd
60 %	114157.1 cd
50 %	95130.9 cd
40 %	76104.7 cd
30 %	57078.5 cd
20 %	38052.4 cd
10 %	19026.2 cd

Peak intensity: 190261.8 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	10570 lx
30.0 %	6342 lx
10.0 %	2114 lx
5.0 %	1057 lx
3.0 %	634 lx

Peak illuminance: 21140 lx
Mounting height: 3 m
Number of c-planes: 36

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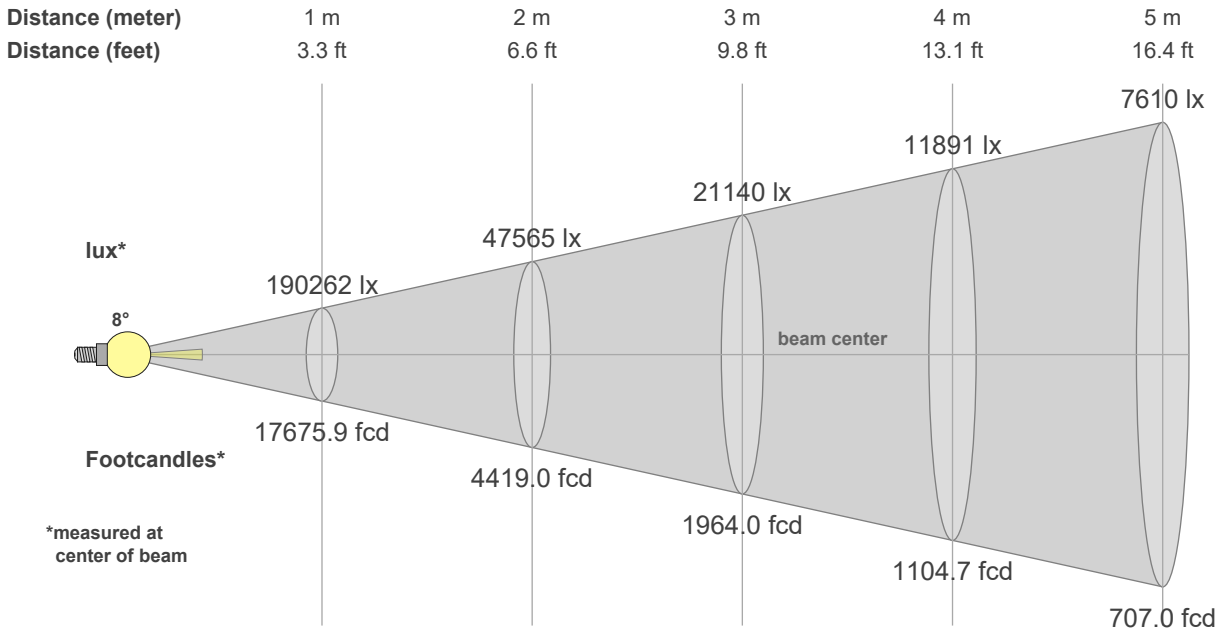
Beam details



Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-7-INF-XXXXX-X (ALL ON)

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
190262	47565	21140	11891	7610	5285	3883	2973	2349	1903	1572	1321	1126	971	846	743	658	587	527	476	lux
17675.9	4419	1964	1104.7	707	491	360.7	276.2	218.2	176.8	146.1	122.7	104.6	90.2	78.6	69	61.2	54.6	49	44.2	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
190k	183k	162k	131k	97k	65k	41k	25k	15k	10k	7k	5k	4k	4k	3k	3k	2k	2k	2k	2k	cd
100%	96%	85%	69%	51%	34%	22%	13%	8%	5%	4%	3%	2%	2%	2%	1%	1%	1%	1%	1%	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
190k	183k	162k	131k	97k	65k	41k	25k	15k	10k	7k	5k	4k	4k	3k	3k	2k	2k	2k	2k	cd
100%	96%	85%	69%	51%	34%	22%	13%	8%	5%	4%	3%	2%	2%	2%	1%	1%	1%	1%	1%	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
190k	183k	162k	131k	97k	65k	41k	25k	15k	10k	7k	5k	4k	4k	3k	3k	2k	2k	2k	2k	cd
100%	96%	85%	69%	51%	34%	22%	13%	8%	5%	4%	3%	2%	2%	2%	1%	1%	1%	1%	1%	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
190k	183k	162k	131k	97k	65k	41k	25k	15k	10k	7k	5k	4k	4k	3k	3k	2k	2k	2k	2k	cd
100%	96%	85%	69%	51%	34%	22%	13%	8%	5%	4%	3%	2%	2%	2%	1%	1%	1%	1%	1%	of 0°val

Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-7-INF-XXXXX-X (ALL ON)

Power details

Input power	
Frequency of input power	60.0 Hz
Power feed to light source	0 W
RMS Input voltage feed V,RMS	117.9 V
RMS Input current feed I,RMS	0.00 A
Volt-Amp or apparent power = V,RMS*I,RMS	0.0 VA
Displacement factor of AC power feed	0.71
Power factor of AC current feed	NaN
Total harmonic distortion of the current	NaN%
Total harmonic distortion of the voltage	1.819%

Input power curve

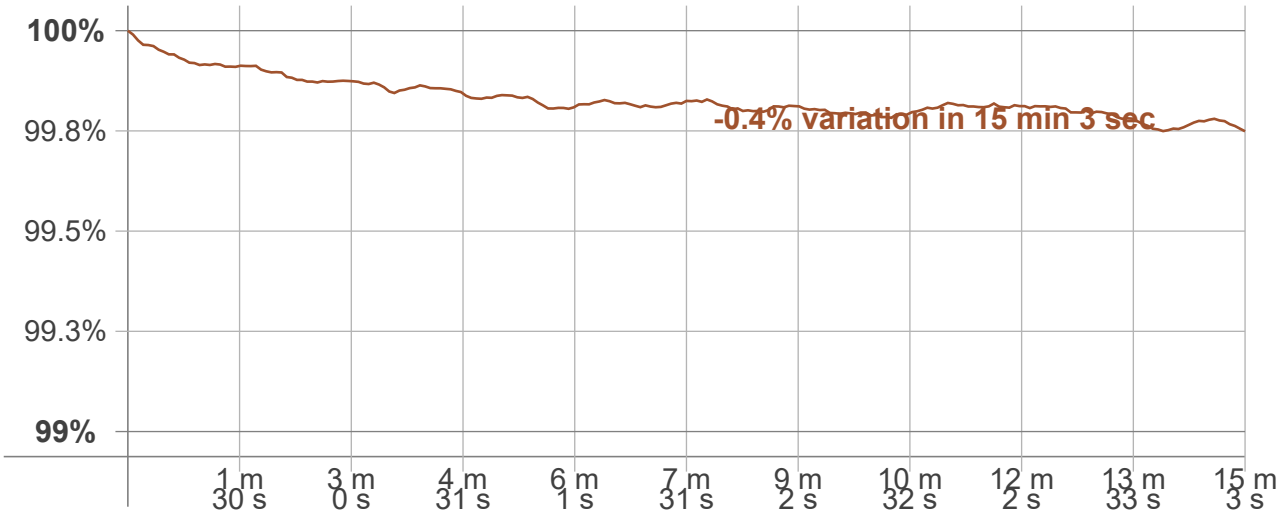
Efficiency

Radiated power efficiency	∞
Lumen efficiency	∞ 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	5742 lm
Warmup variation	-0.3755%	Output change	-14.348 lm
		Output end	5727 lm

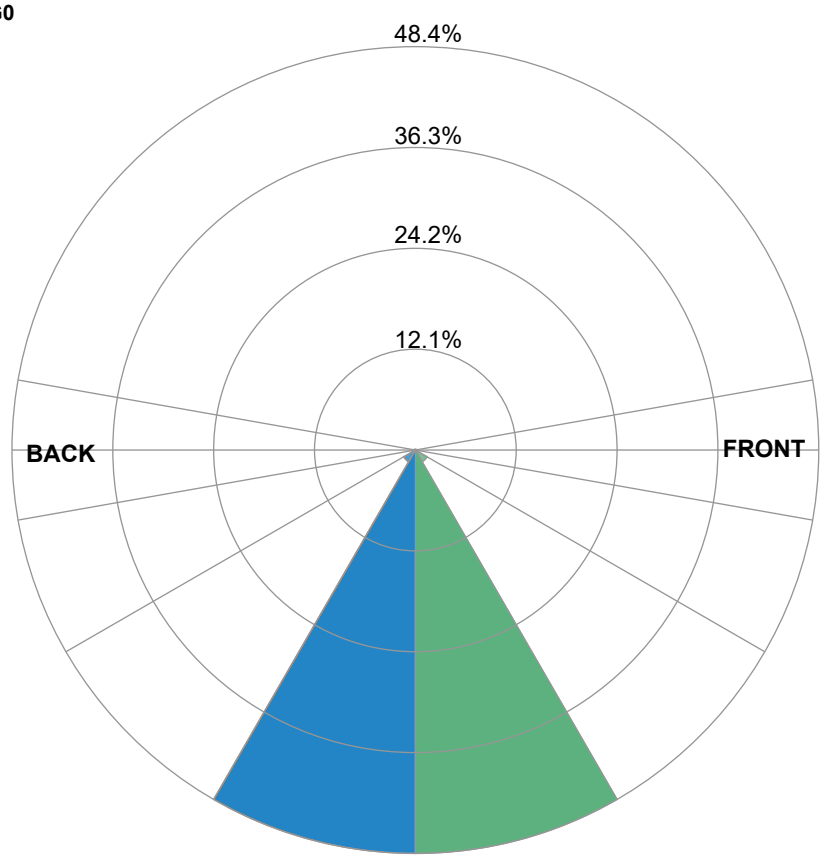
Stabilization Curve



Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-7-INF-XXXXX-X (ALL ON)

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

Forward Light			
Low (0-30°)	2770	lm	48.4%
Medium (30-60°)	93.7	lm	1.64%
High (60-80°)	0	lm	0%
Very High (80-90°)	0	lm	0%
Back Light			
Low (0-30°)	2770	lm	48.4%
Medium (30-60°)	93.7	lm	1.64%
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	5727	lm	100%

BUG RATING B4 U0 G0