Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-1040-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.May.26-8902-VO
Measurement date	2026-05-26

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	0.30°
Input Power	128.2 W

Electrical Data

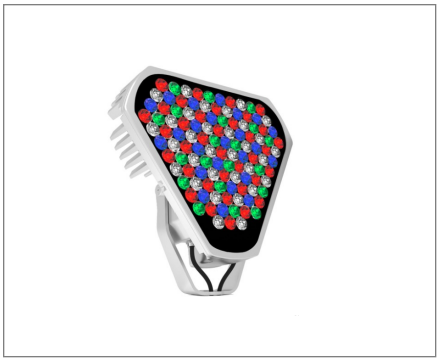
Input Power	128.2 W
Input Voltage	381.4 V DC
Input Current	0.34 A
Power Factor	1.00

Tested Light Source

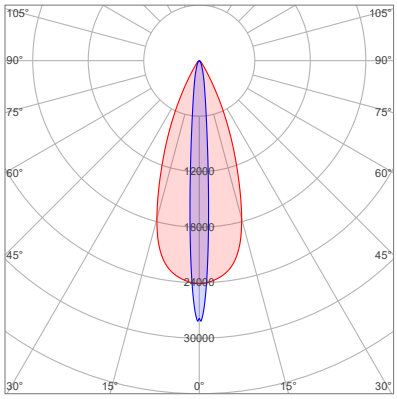
Product family	FL200-G2
Luminaire configuration	FL200-G2-XXX-RGBW3083-OM-1040-INF-XXXXX-X (G)
Manufacturer	GVA Lighting, Inc.
Size (width x length x height)	106 mm 0 mm x 430 mm

Main Light Measurement Results

Output – Total Lumen	4304 - 0% / 100%
Efficiency	33.59 lm/W
Peak Intensity	30388
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	39.2°
Beam Angle (FWHM) | C90/270	8.1°
Field Angle (10%) | C0/180	61.4°Unit: 0-100% of peak intensity
Optical Power	8907 mW
Peak Wavelength	522 nm
Dominant Wavelength	527 nm

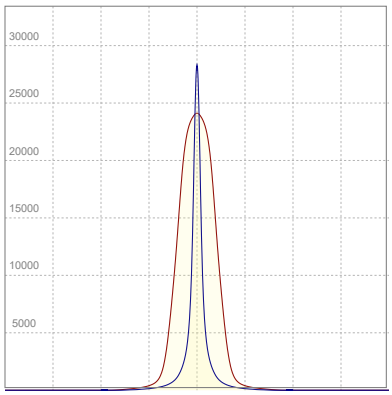


Polar Light Distribution Diagram
Unit: 0-100% of peak intensity

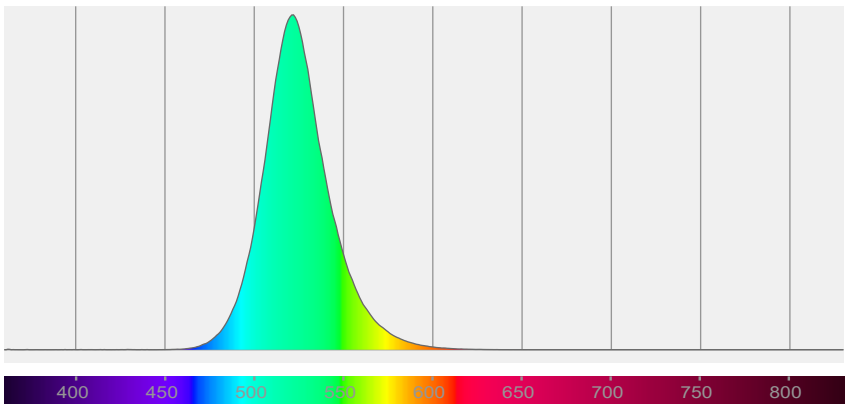


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

NaN K

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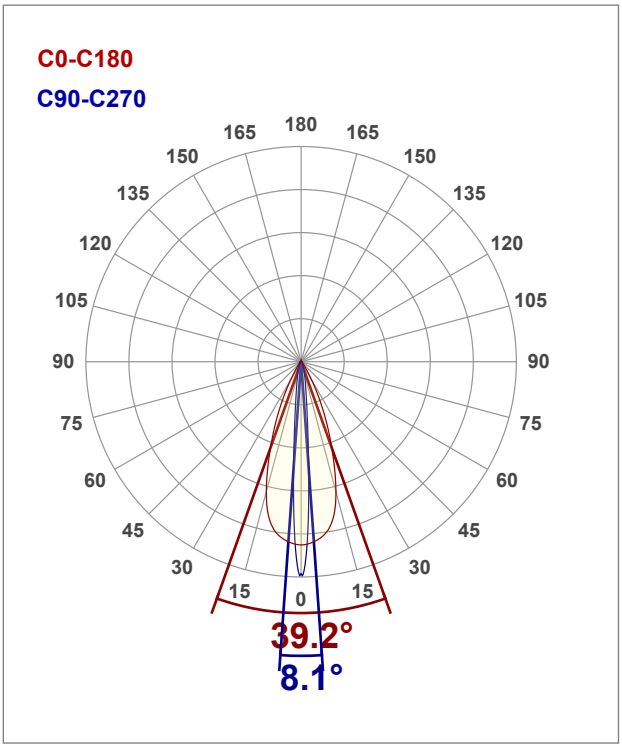
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	4304 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	30388 cd
Beam Angle (50%-FWHM)	16.1°

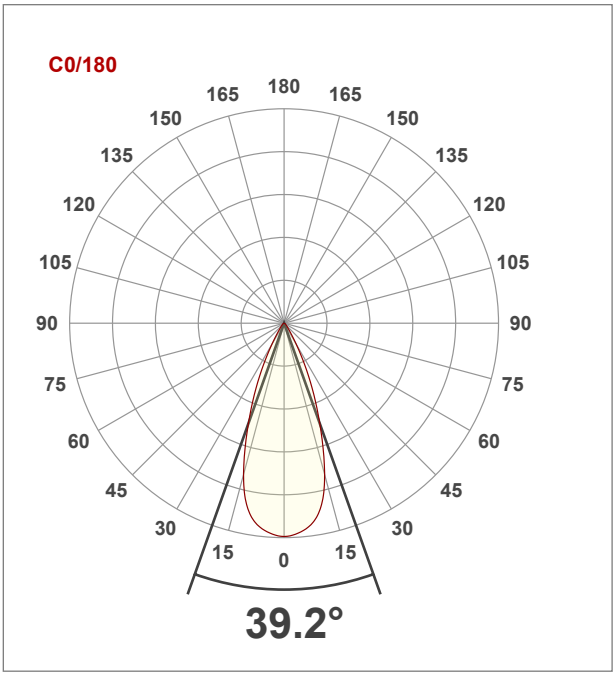
EU Ecodesign parameters

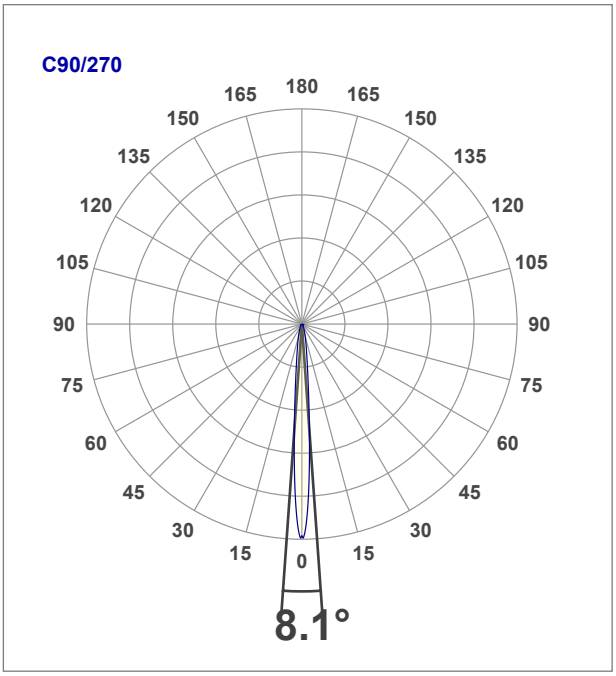
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	4072 lm
Ecodesign Energy Class	G

Intensity Ratio

In 120° cone	98.76%
In 90° cone	94.61%

Angular Distribution





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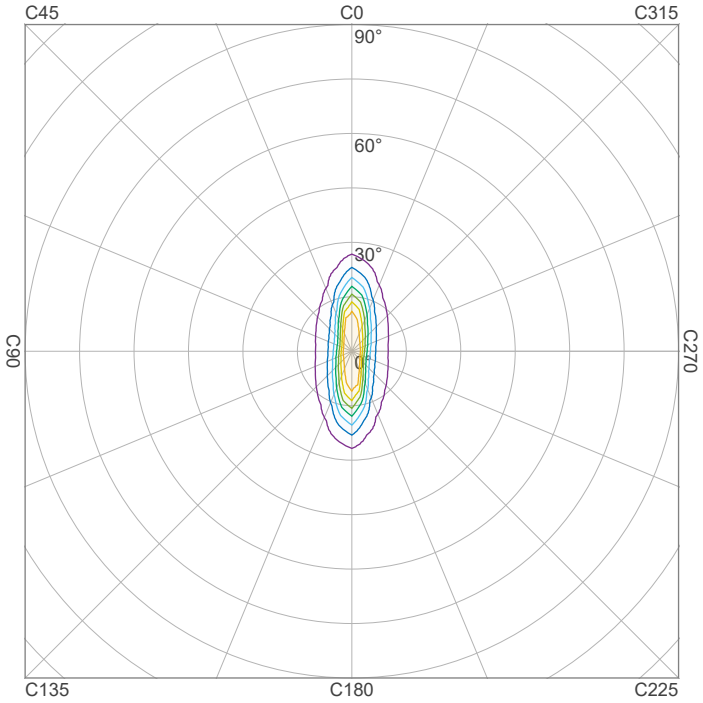
FL200-G2-XXX-RGBW3083-OM-1040-INF-XXXXX-X (G)

Iso-intensity Diagram (Iso-candela)

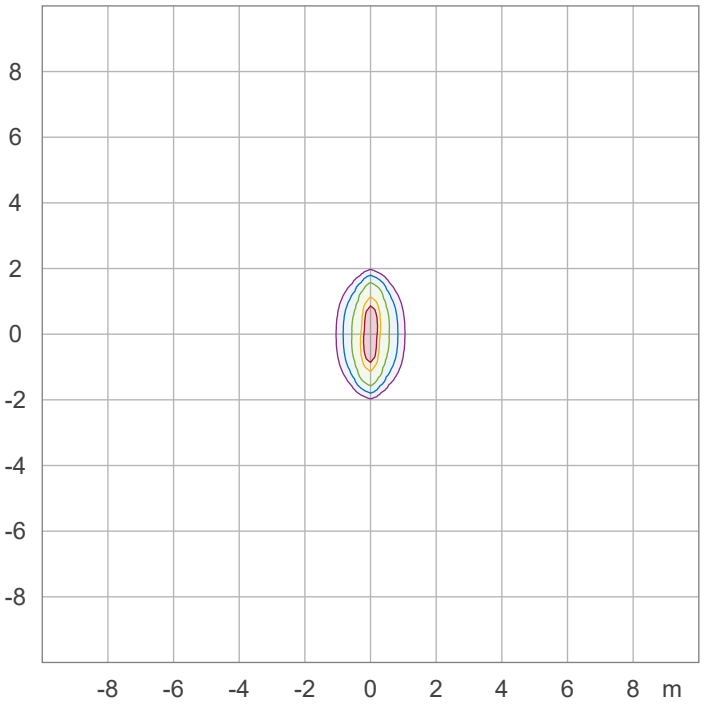


90 %	26335.0 cd
80 %	23408.9 cd
70 %	20482.8 cd
60 %	17556.7 cd
50 %	14630.5 cd
40 %	11704.4 cd
30 %	8778.3 cd
20 %	5852.2 cd
10 %	2926.1 cd

Peak intensity: 29261.1 cd

Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	1625 lx
30.0 %	975 lx
10.0 %	325 lx
5.0 %	162 lx
3.0 %	97.5 lx

Peak illuminance: 3250 lx

Mounting height: 3 m

Number of c-planes: 36

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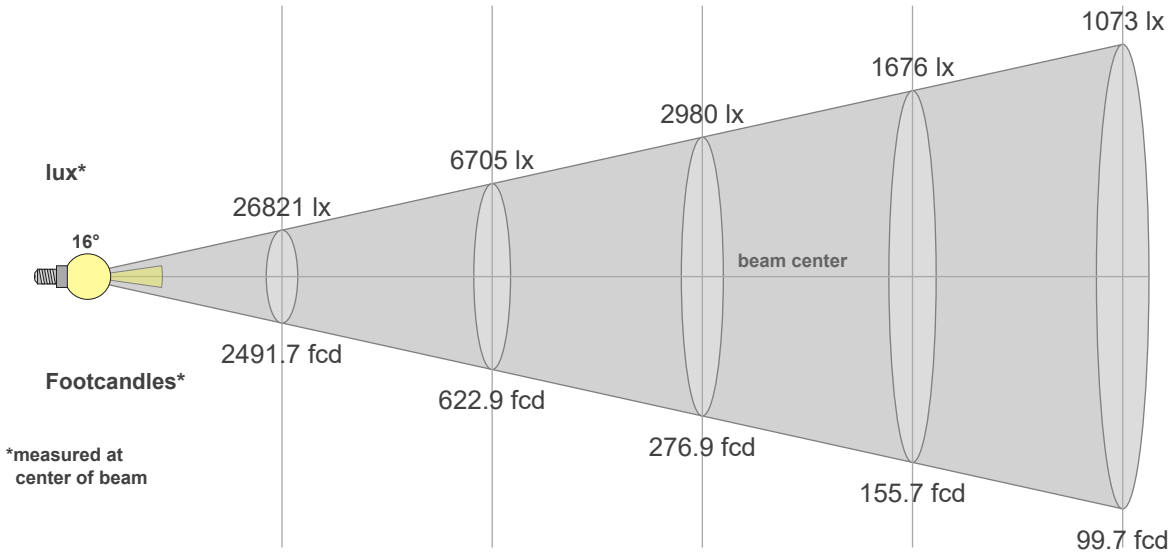
Beam details

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)	0.3 m	0.6 m	0.8 m	1.1 m	1.4 m
Beam width (feet)	0.9 ft	1.9 ft	2.8 ft	3.7 ft	4.6 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
26821	6705	2980	1676	1073	745	547	419	331	268	222	186	159	137	119	105	93	83	74	67	lux
2491.7	622.9	276.9	155.7	99.7	69.2	50.9	38.9	30.8	24.9	20.6	17.3	14.7	12.7	11.1	9.7	8.6	7.7	6.9	6.2	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
26.8k	24.1k	24.0k	23.9k	23.8k	23.6k	23.4k	23.1k	22.8k	22.4k	22.0k	21.4k	20.6k	19.8k	18.8k	17.7k	16.5k	15.2k	14.0k	12.7k	cd
100%	90%	90%	89%	89%	88%	87%	86%	85%	84%	82%	80%	77%	74%	70%	66%	61%	57%	52%	47%	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
26.8k	27.0k	23.5k	18.8k	14.3k	10.6k	8.0k	6.3k	5.0k	4.1k	3.5k	3.0k	2.6k	2.3k	2.0k	1.7k	1.5k	1.4k	1.2k	1.1k	cd
100%	101%	87%	70%	53%	40%	30%	23%	19%	15%	13%	11%	10%	8%	7%	7%	6%	5%	5%	4%	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
26.8k	24.1k	24.0k	23.9k	23.8k	23.6k	23.4k	23.1k	22.8k	22.4k	22.0k	21.4k	20.6k	19.8k	18.8k	17.7k	16.5k	15.2k	14.0k	12.7k	cd
100%	90%	90%	89%	89%	88%	87%	86%	85%	84%	82%	80%	77%	74%	70%	66%	61%	57%	52%	47%	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
26.8k	27.0k	23.5k	18.8k	14.3k	10.6k	8.0k	6.3k	5.0k	4.1k	3.5k	3.0k	2.6k	2.3k	2.0k	1.7k	1.5k	1.4k	1.2k	1.1k	cd
100%	101%	87%	70%	53%	40%	30%	23%	19%	15%	13%	11%	10%	8%	7%	7%	6%	5%	5%	4%	of 0°val

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FL200-G2-XXX-RGBW3083-OM-1040-INF-XXXXX-X (G)

Power details

Input power	
Frequency of input power	0.0 Hz
Power feed to light source	128.2 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	128.2 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

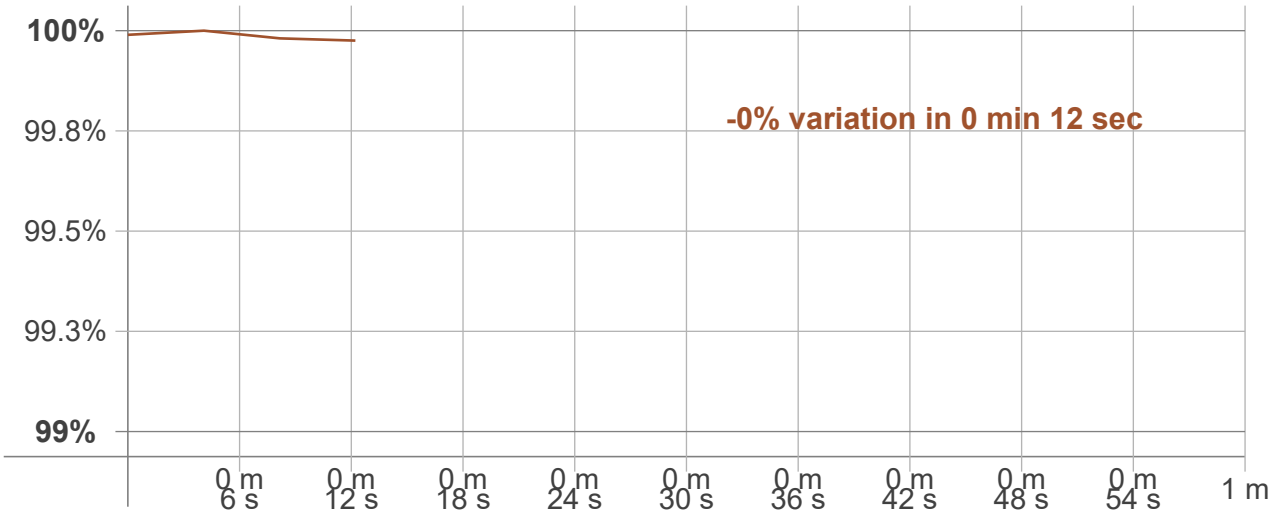
Efficiency

Radiated power efficiency	6.95
Lumen efficiency	33.59 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	4305 lm
Warmup variation	-0.0248%	Output change	-0.7237 lm
		Output end	4304 lm

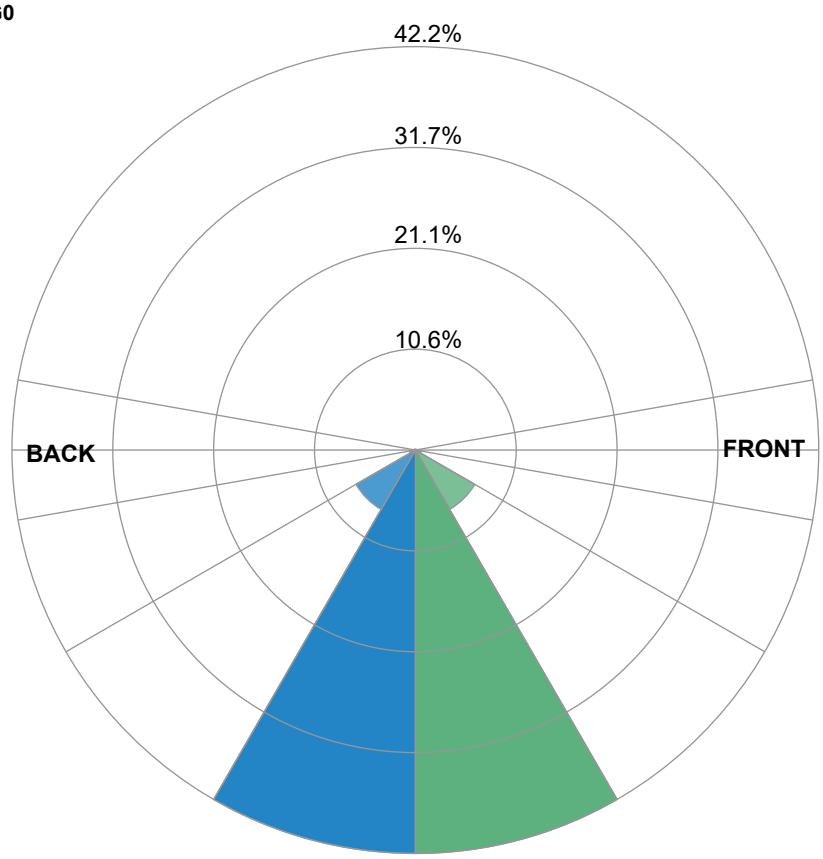
Stabilization Curve



Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-1040-INF-XXXXX-X (G)

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

Forward Light			
Low (0-30°)	1820	lm	42.2%
Medium (30-60°)	309	lm	7.17%
High (60-80°)	26.8	lm	0.624%
Very High (80-90°)	0.0129	lm	0.000300%
Back Light			
Low (0-30°)	1820	lm	42.2%
Medium (30-60°)	309	lm	7.17%
High (60-80°)	26.8	lm	0.624%
Very High (80-90°)	0.0129	lm	0.000300%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	4304	lm	100%

BUG RATING B3 U0 G0