Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-1040-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.27-8929-VO
Measurement date	2026-05-27

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	0.36°
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

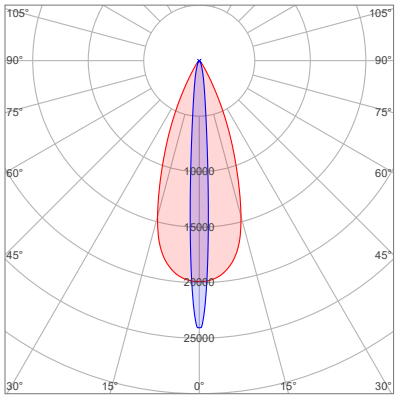
Tested Light Source

Product family	FL200-G2
Luminaire configuration	FL200-G2-XXX-RGBW3083-OM-1040-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

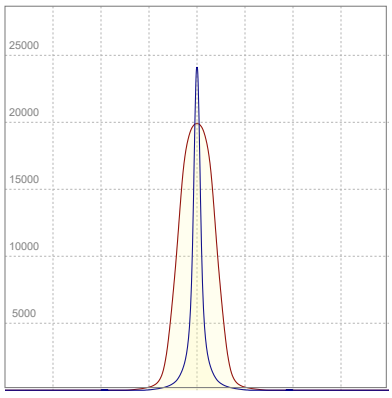
Output – Total Lumen	3207 - 0% / 100%
Efficiency	24.88 lm/W
Peak Intensity	26060
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	38.8°
Beam Angle (FWHM) | C90/270	7.7°
Field Angle (10%) | C0/180	60.5°Unit: 0-100% of peak intensity
Optical Power	16583 mW
Peak Wavelength	633 nm
Dominant Wavelength	622 nm

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

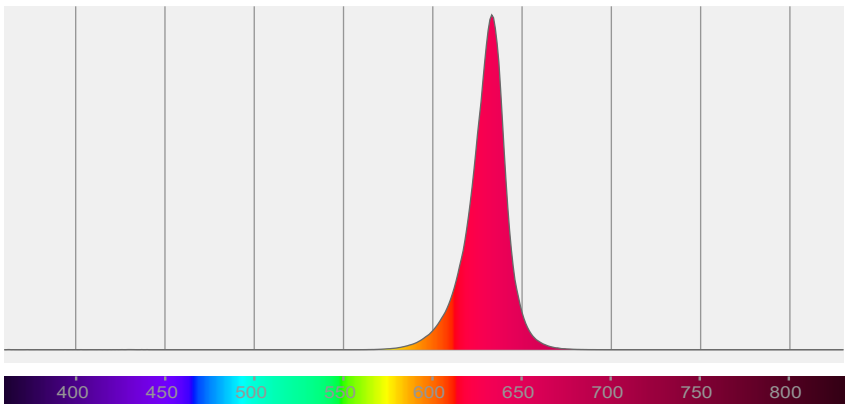


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

NaN K

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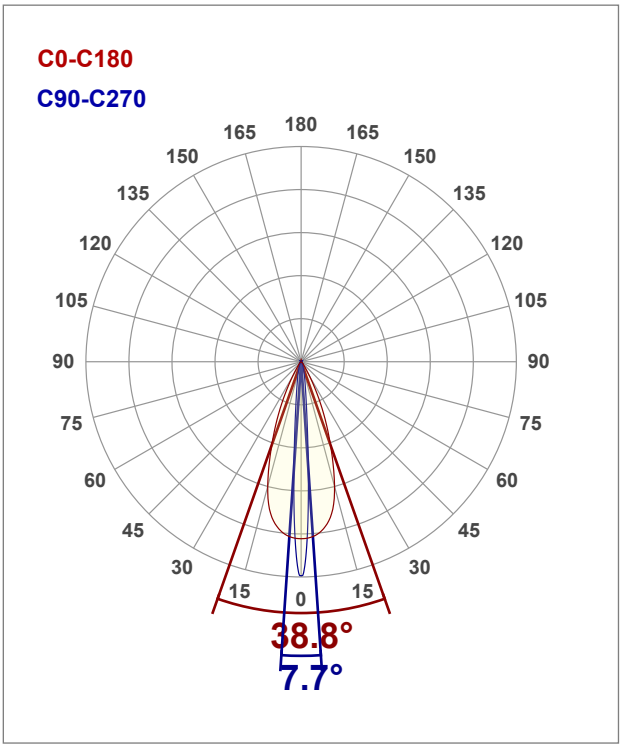
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	3207 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	26060 cd
Beam Angle (50%-FWHM)	15.8°

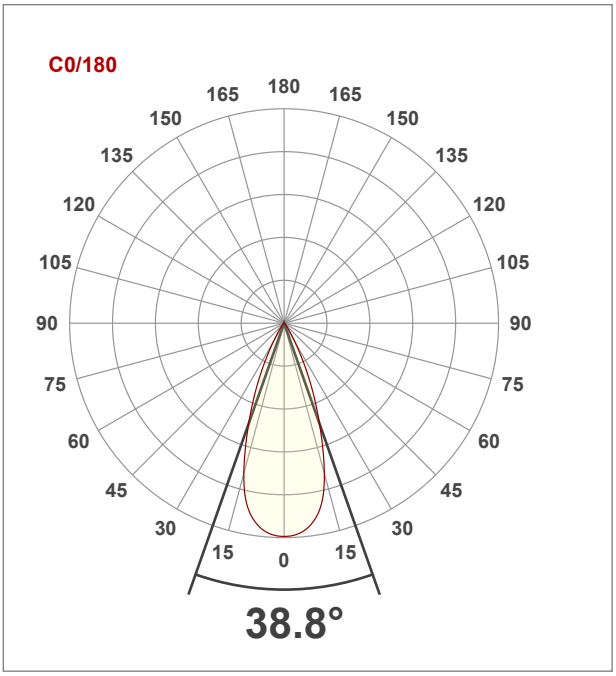
EU Ecodesign parameters

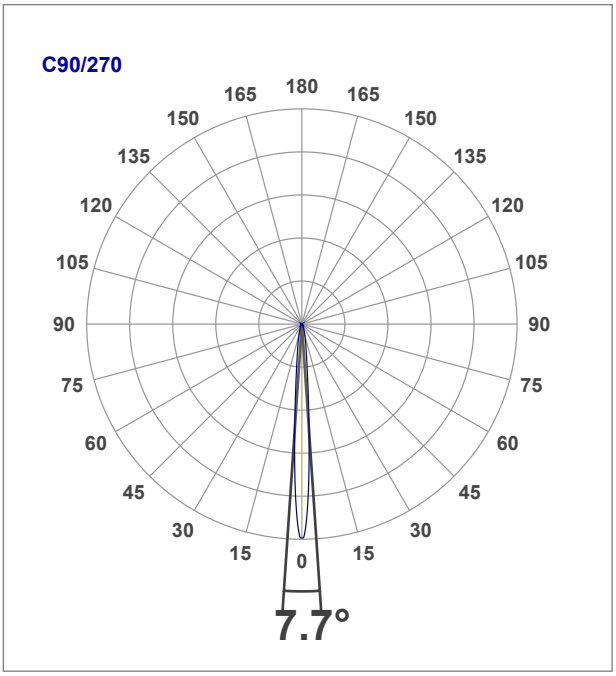
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	3158 lm
Ecodesign Energy Class	G

Intensity Ratio

In 120° cone	99.97%
In 90° cone	98.45%

Angular Distribution





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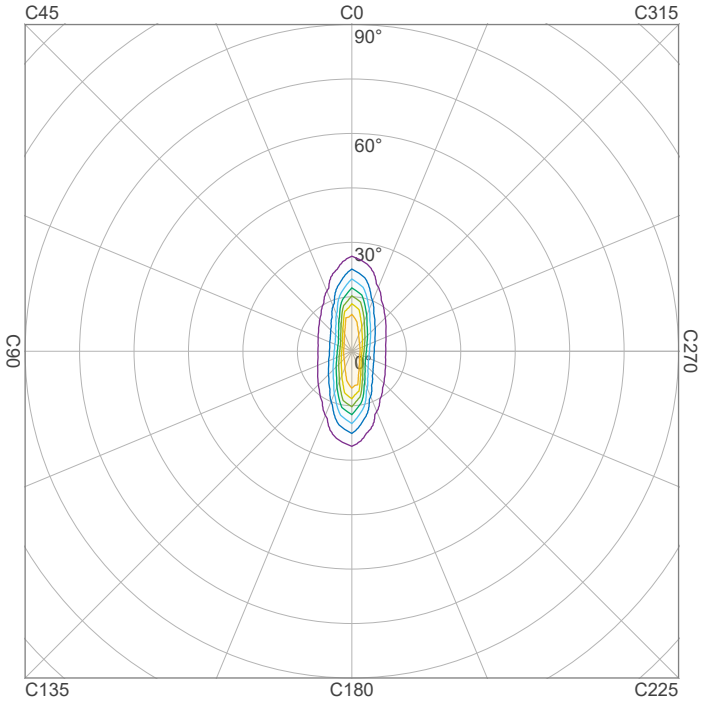
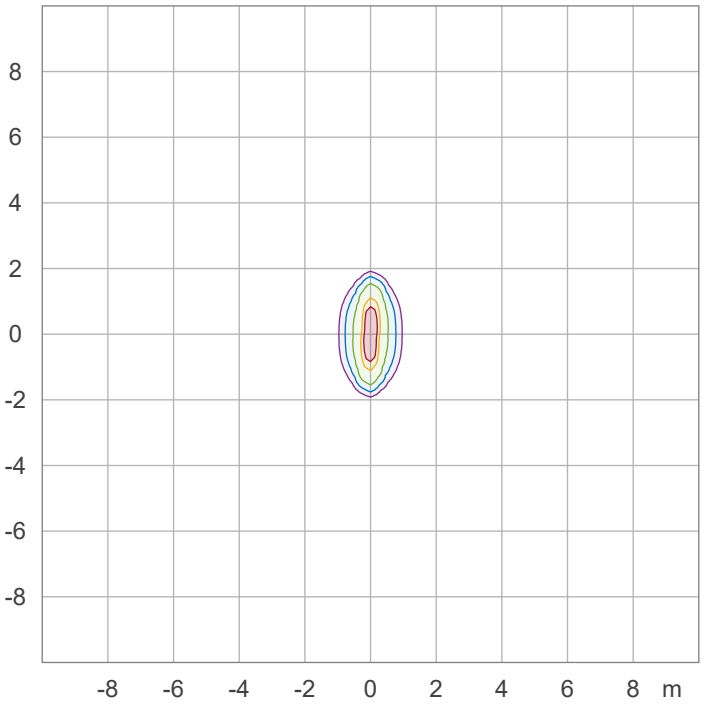
Iso-intensity Diagram (Iso-candela)



90 %	22419.4 cd
80 %	19928.4 cd
70 %	17437.3 cd
60 %	14946.3 cd
50 %	12455.2 cd
40 %	9964.2 cd
30 %	7473.1 cd
20 %	4982.1 cd
10 %	2491.0 cd

Peak intensity: 24910.5 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	1383 lx
30.0 %	830 lx
10.0 %	277 lx
5.0 %	138 lx
3.0 %	83 lx

Peak illuminance: 2767 lx
Mounting height: 3 m
Number of c-planes: 36

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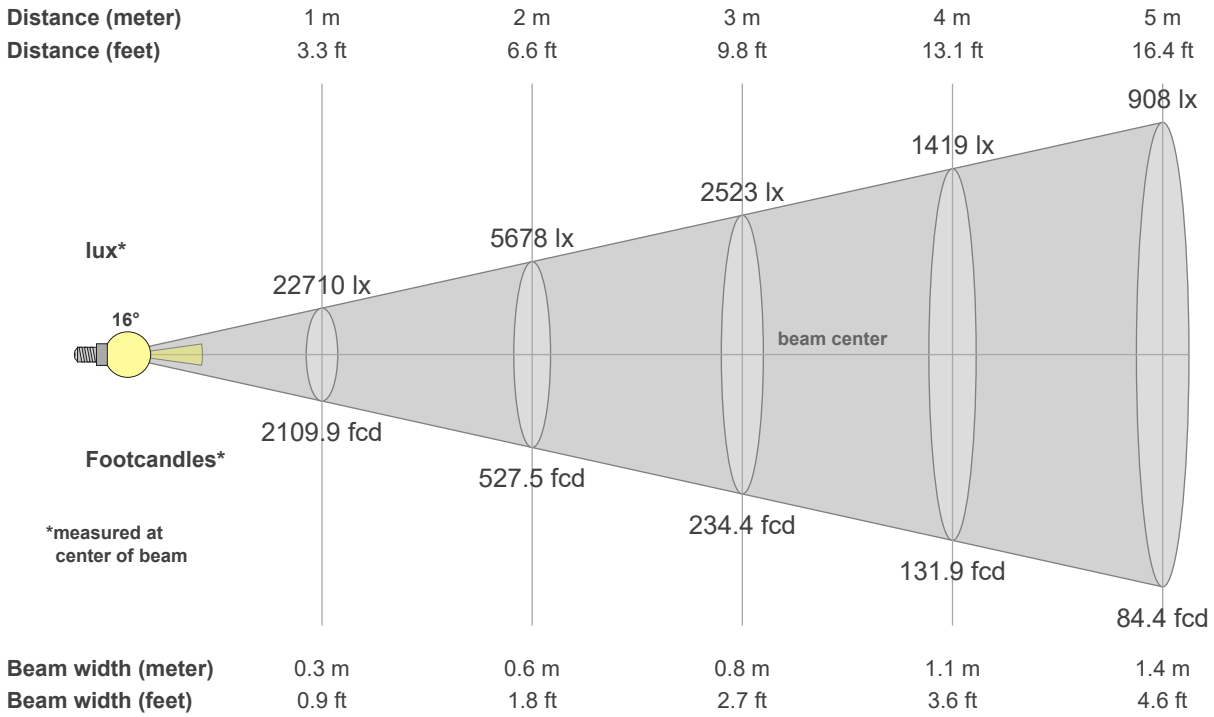
Beam details



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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
22710	5678	2523	1419	908	631	463	355	280	227	188	158	134	116	101	89	79	70	63	57	lux
2109.9	527.5	234.4	131.9	84.4	58.6	43.1	33	26	21.1	17.4	14.7	12.5	10.8	9.4	8.2	7.3	6.5	5.8	5.3	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
22.7k	19.9k	19.8k	19.8k	19.7k	19.5k	19.3k	19.1k	18.8k	18.5k	18.1k	17.6k	17.0k	16.3k	15.4k	14.5k	13.5k	12.4k	11.4k	10.3k	cd
100%	88%	87%	87%	87%	86%	85%	84%	83%	81%	80%	77%	75%	72%	68%	64%	59%	55%	50%	46%	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
22.7k	23.0k	19.7k	15.5k	11.5k	8.4k	6.2k	4.8k	3.8k	3.2k	2.6k	2.2k	1.9k	1.7k	1.5k	1.3k	1.1k	1.0k	0.8k	0.7k	cd
100%	101%	87%	68%	51%	37%	27%	21%	17%	14%	12%	10%	9%	7%	6%	6%	5%	4%	4%	3%	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
22.7k	19.9k	19.8k	19.8k	19.7k	19.5k	19.3k	19.1k	18.8k	18.5k	18.1k	17.6k	17.0k	16.3k	15.4k	14.5k	13.5k	12.4k	11.4k	10.3k	cd
100%	88%	87%	87%	87%	86%	85%	84%	83%	81%	80%	77%	75%	72%	68%	64%	59%	55%	50%	46%	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
22.7k	23.0k	19.7k	15.5k	11.5k	8.4k	6.2k	4.8k	3.8k	3.2k	2.6k	2.2k	1.9k	1.7k	1.5k	1.3k	1.1k	1.0k	0.8k	0.7k	cd
100%	101%	87%	68%	51%	37%	27%	21%	17%	14%	12%	10%	9%	7%	6%	6%	5%	4%	4%	3%	of 0°val

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

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

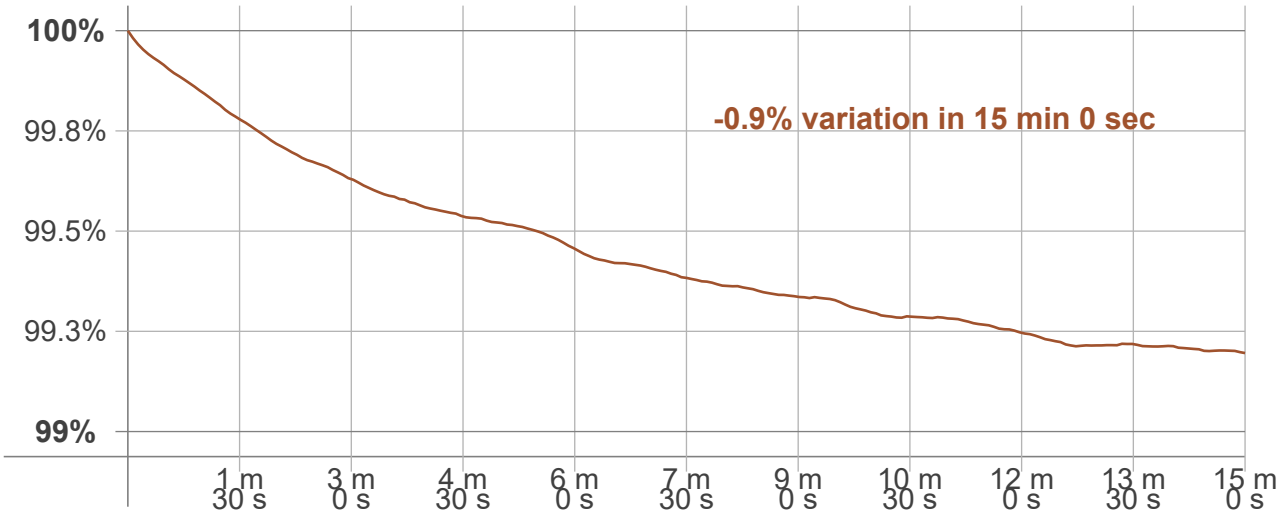
Efficiency

Radiated power efficiency	12.86
Lumen efficiency	24.88 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 0 sec	Output start	3235 lm
Warmup variation	-0.9248%	Output change	-27.467 lm
		Output end	3207 lm

Stabilization Curve



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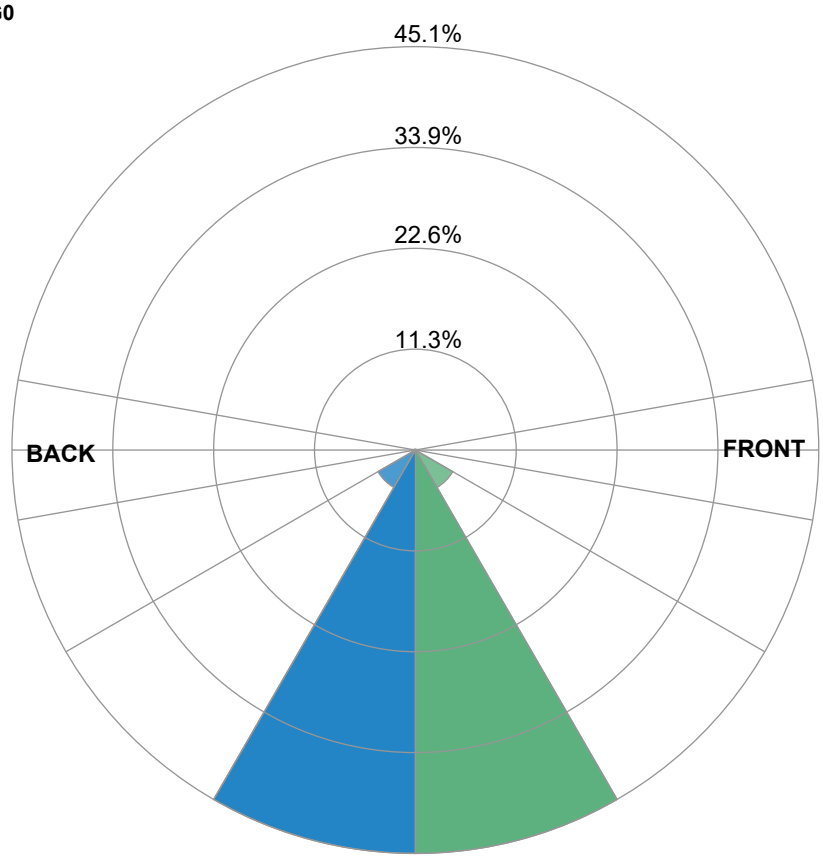
FL200-G2-XXX-RGBW3083-OM-1040-INF-XXXXX-X (R)

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

Forward Light			
Low (0-30°)	1450	lm	45.1%
Medium (30-60°)	155	lm	4.83%
High (60-80°)	0.580	lm	0.0181%
Very High (80-90°)	0	lm	0%
Back Light			
Low (0-30°)	1450	lm	45.1%
Medium (30-60°)	155	lm	4.83%
High (60-80°)	0.580	lm	0.0181%
Very High (80-90°)	0	lm	0%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	3207	lm	100%

BUG RATING B3 U0 G0