Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-30-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.25-8830-VO
Measurement date	2026-05-25

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	1.50°
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

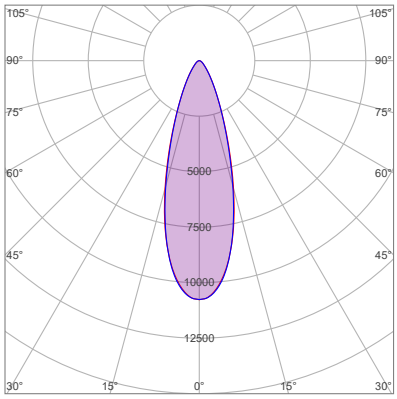
Tested Light Source

Product family	FL200-G2
Luminaire configuration	FL200-G2-XXX-RGBW3083-OM-30-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

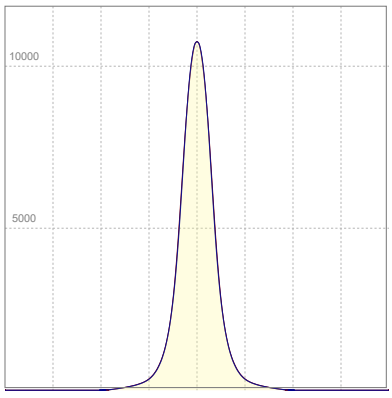
Output – Total Lumen	4617 - 0.0023% / 100%
Efficiency	35.82 lm/W
Peak Intensity	10774
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	32.3°
Beam Angle (FWHM) | C90/270	31.8°
Field Angle (10%) | C0/180	63.9°Unit: 0-100% of peak intensity
Optical Power	9579 mW
Peak Wavelength	521 nm
Dominant Wavelength	527 nm

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

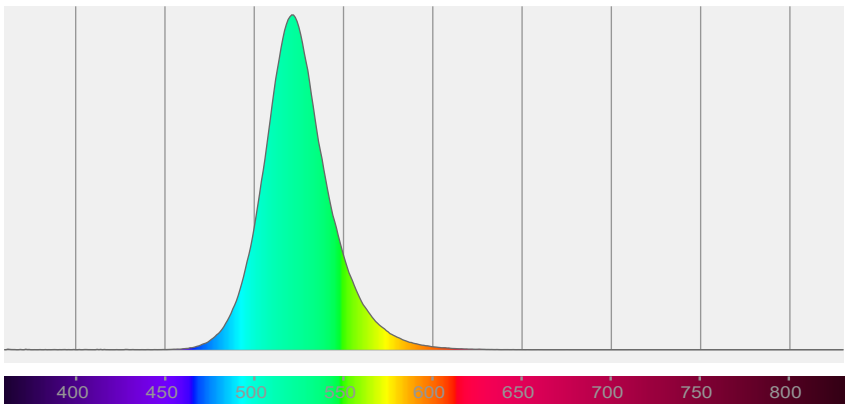


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

NaN K

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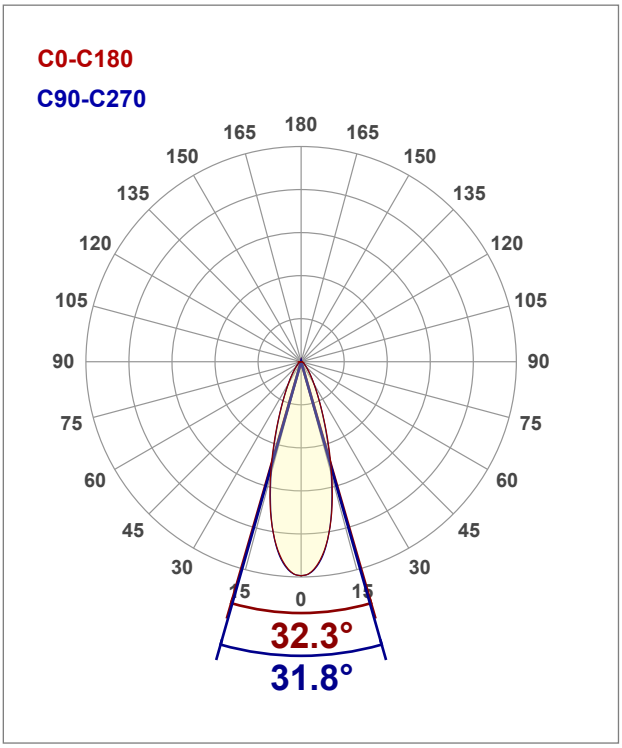
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	4617 lm
Lumen Up% / Down%	0.0023% / 100%
Peak Intensity	10774 cd
Beam Angle (50%-FWHM)	32.0°

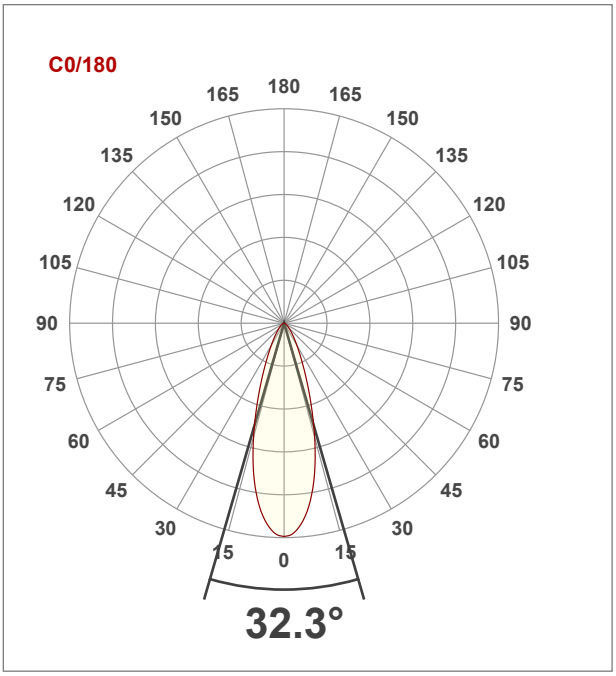
EU Ecodesign parameters

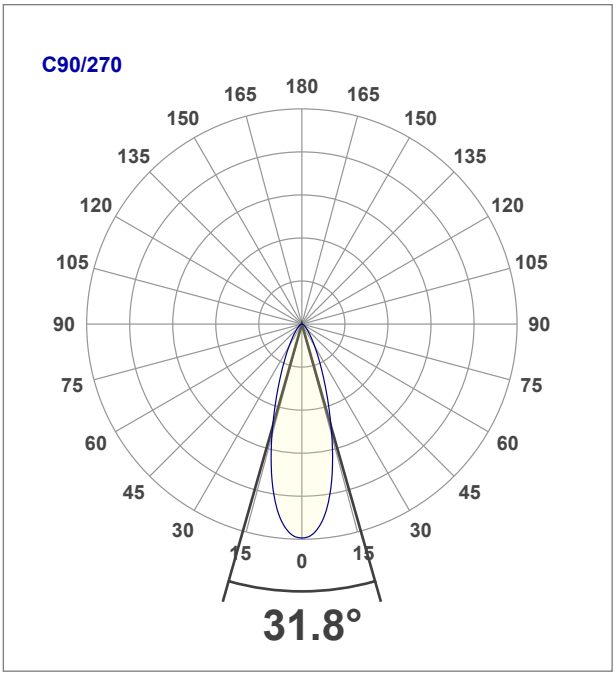
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	4178 lm
Ecodesign Energy Class	G

Intensity Ratio

In 120° cone	96.59%
In 90° cone	90.48%

Angular Distribution





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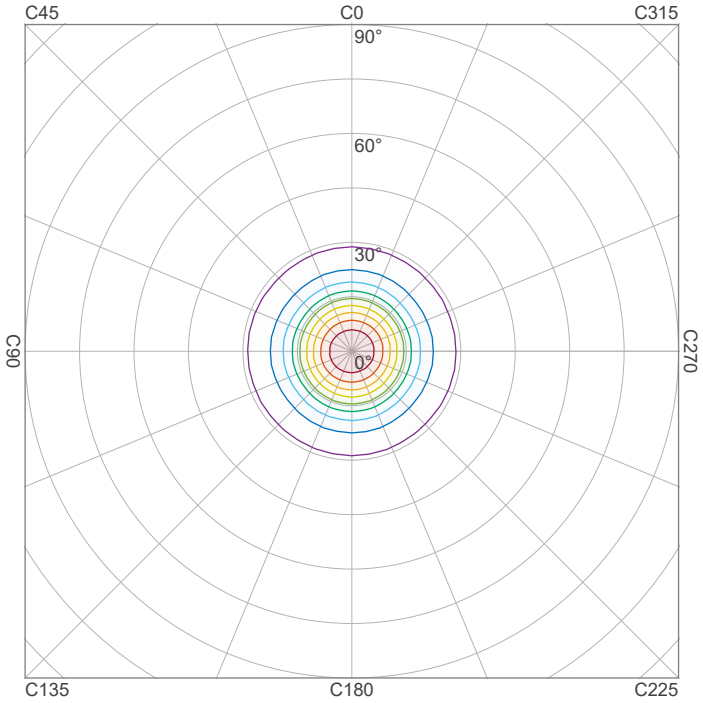
Iso-intensity Diagram (Iso-candela)

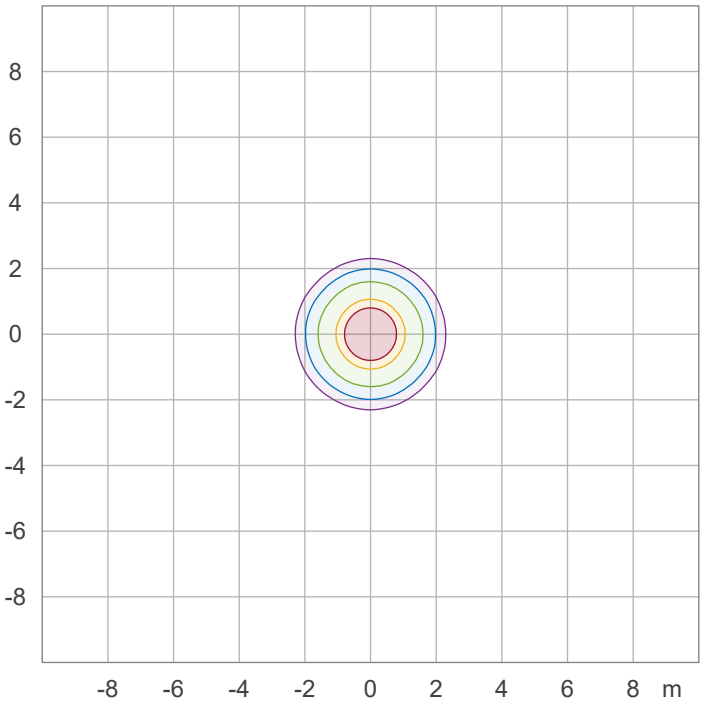


90 %	9682.7 cd
80 %	8606.9 cd
70 %	7531.0 cd
60 %	6455.1 cd
50 %	5379.3 cd
40 %	4303.4 cd
30 %	3227.6 cd
20 %	2151.7 cd
10 %	1075.9 cd

Peak intensity: 10758.6 cd

Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	598 lx
30.0 %	359 lx
10.0 %	120 lx
5.0 %	59.8 lx
3.0 %	35.9 lx

Peak illuminance: 1195 lx

Mounting height: 3 m

Number of c-planes: 36

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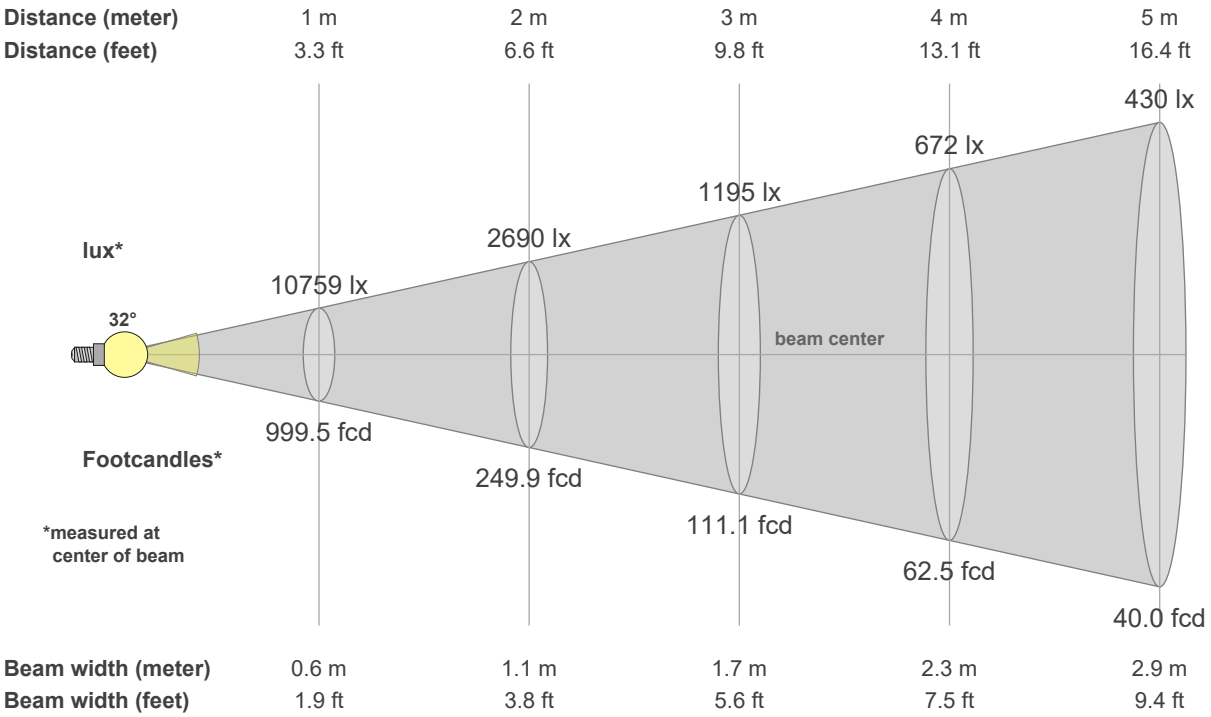
Beam details



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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
10759	2690	1195	672	430	299	220	168	133	108	89	75	64	55	48	42	37	33	30	27	lux
999.5	249.9	111.1	62.5	40	27.8	20.4	15.6	12.3	10	8.3	6.9	5.9	5.1	4.4	3.9	3.5	3.1	2.8	2.5	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
10.8k	10.7k	10.3k	9.9k	9.2k	8.4k	7.5k	6.5k	5.5k	4.5k	3.7k	3.0k	2.4k	1.9k	1.6k	1.3k	1.1k	0.9k	0.7k	0.6k	cd
100%	99%	96%	92%	86%	78%	69%	60%	51%	42%	34%	28%	22%	18%	15%	12%	10%	8%	7%	6%	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
10.8k	10.7k	10.4k	9.9k	9.2k	8.4k	7.4k	6.3k	5.3k	4.4k	3.6k	2.9k	2.4k	1.9k	1.6k	1.3k	1.1k	0.9k	0.7k	0.6k	cd
100%	99%	97%	92%	86%	78%	69%	59%	49%	41%	33%	27%	22%	18%	15%	12%	10%	8%	7%	6%	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
10.8k	10.7k	10.3k	9.9k	9.2k	8.4k	7.5k	6.5k	5.5k	4.5k	3.7k	3.0k	2.4k	1.9k	1.6k	1.3k	1.1k	0.9k	0.7k	0.6k	cd
100%	99%	96%	92%	86%	78%	69%	60%	51%	42%	34%	28%	22%	18%	15%	12%	10%	8%	7%	6%	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
10.8k	10.7k	10.4k	9.9k	9.2k	8.4k	7.4k	6.3k	5.3k	4.4k	3.6k	2.9k	2.4k	1.9k	1.6k	1.3k	1.1k	0.9k	0.7k	0.6k	cd
100%	99%	97%	92%	86%	78%	69%	59%	49%	41%	33%	27%	22%	18%	15%	12%	10%	8%	7%	6%	of 0°val

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FL200-G2-XXX-RGBW3083-OM-30-INF-XXXXX-X (G)

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

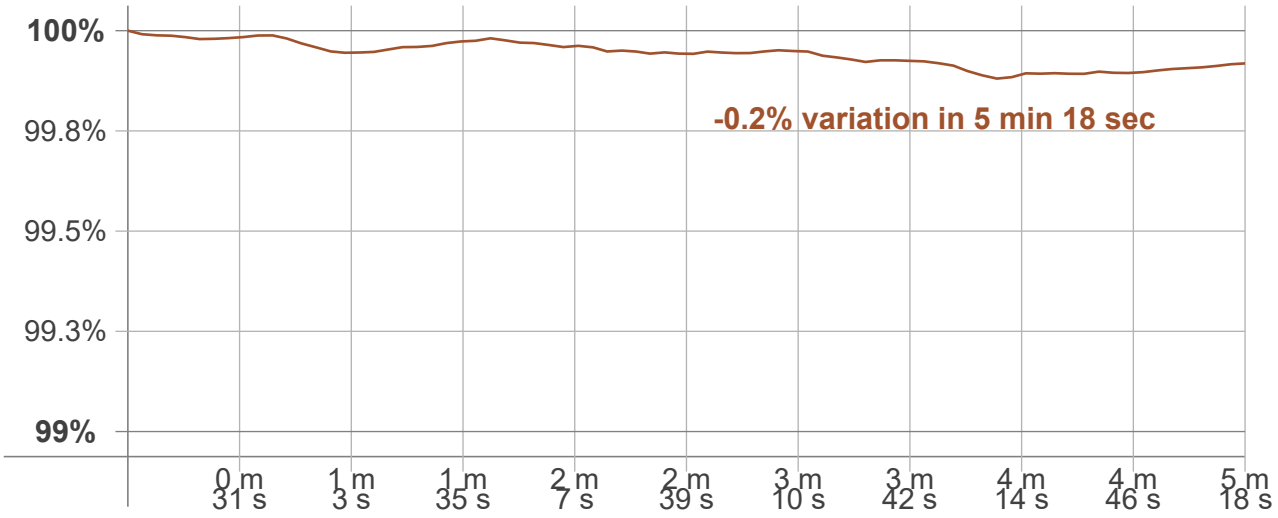
Efficiency

Radiated power efficiency	7.43
Lumen efficiency	35.82 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	4621 lm
Warmup variation	-0.1651%	Output change	-4.2191 lm
		Output end	4617 lm

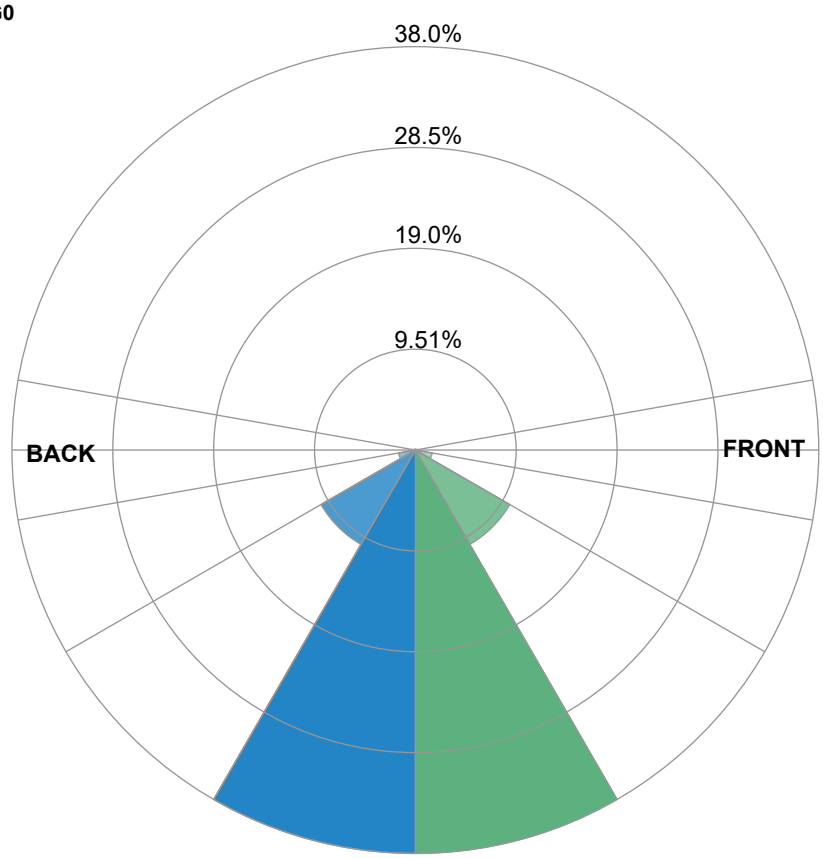
Stabilization Curve



Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-30-INF-XXXXX-X (G)

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

Forward Light			
Low (0-30°)	1760	lm	38.0%
Medium (30-60°)	474	lm	10.3%
High (60-80°)	74.4	lm	1.61%
Very High (80-90°)	4.48	lm	0.0969%
Back Light			
Low (0-30°)	1760	lm	38.0%
Medium (30-60°)	474	lm	10.3%
High (60-80°)	74.4	lm	1.61%
Very High (80-90°)	4.48	lm	0.0969%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	4617	lm	100%

BUG RATING B3 U0 G0