Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-20-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.May.27-8939-VO
Measurement date	2026-05-27

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	1.00°
Input Power	127.8 W

Electrical Data

Input Power	127.8 W
Input Voltage	381.4 V DC
Input Current	0.34 A
Power Factor	1.00

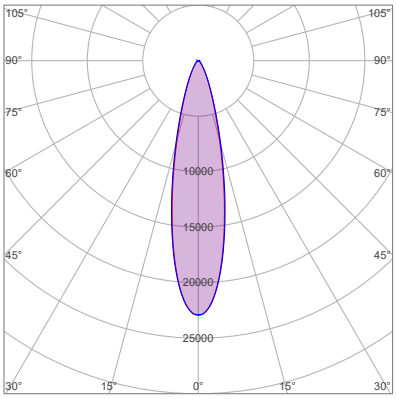
Tested Light Source

Product family	FL200-G2
Luminaire configuration	FL200-G2-XXX-RGBW3083-OM-20-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

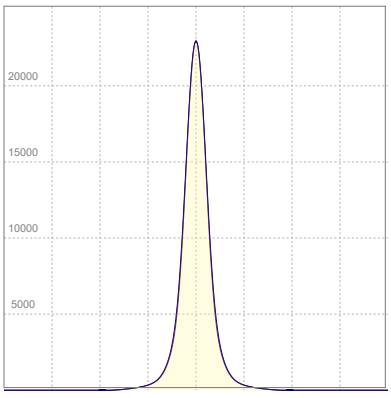
Output – Total Lumen	5840 - 0% / 100%
Efficiency	45.7 lm/W
Peak Intensity	22936
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	23.1°
Beam Angle (FWHM) | C90/270	23.7°
Field Angle (10%) | C0/180	48.4°Unit: 0-100% of peak intensity
Optical Power	24715 mW
Peak Wavelength	453 nm
Dominant Wavelength	540 nm

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

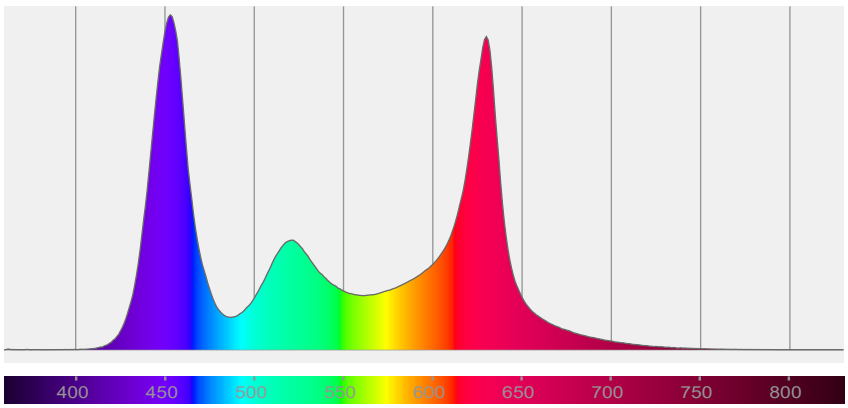


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

NaN K

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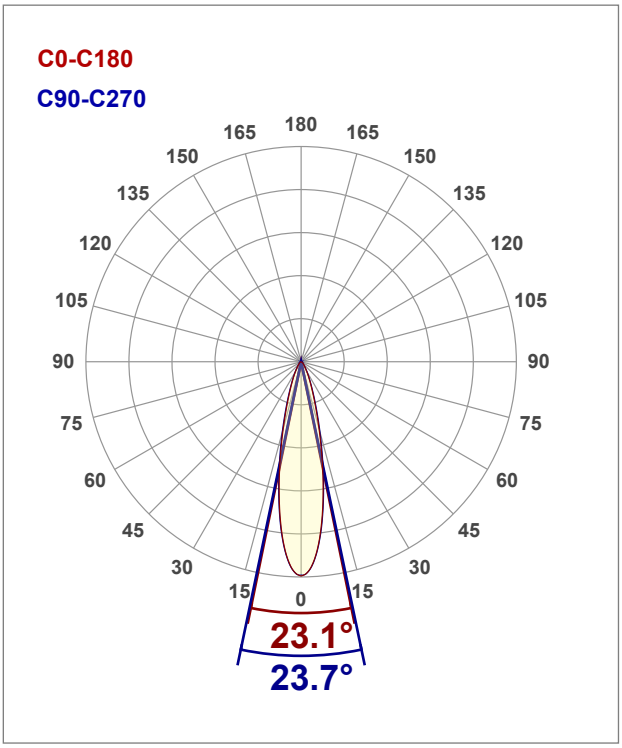
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	5840 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	22936 cd
Beam Angle (50%-FWHM)	23.3°

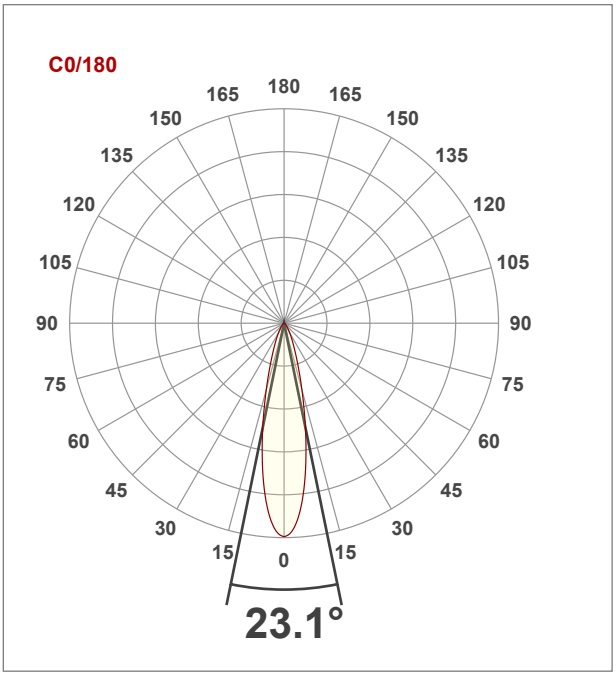
EU Ecodesign parameters

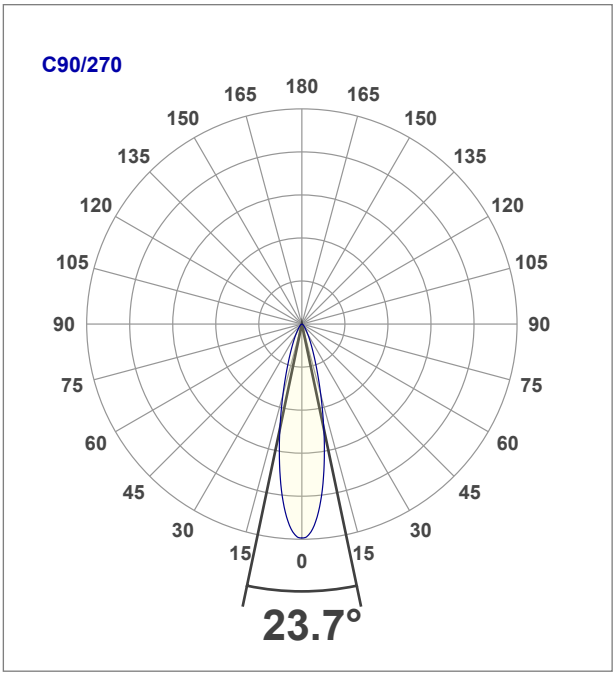
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	5469 lm
Ecodesign Energy Class	G

Intensity Ratio

In 120° cone	98.29%
In 90° cone	93.66%

Angular Distribution





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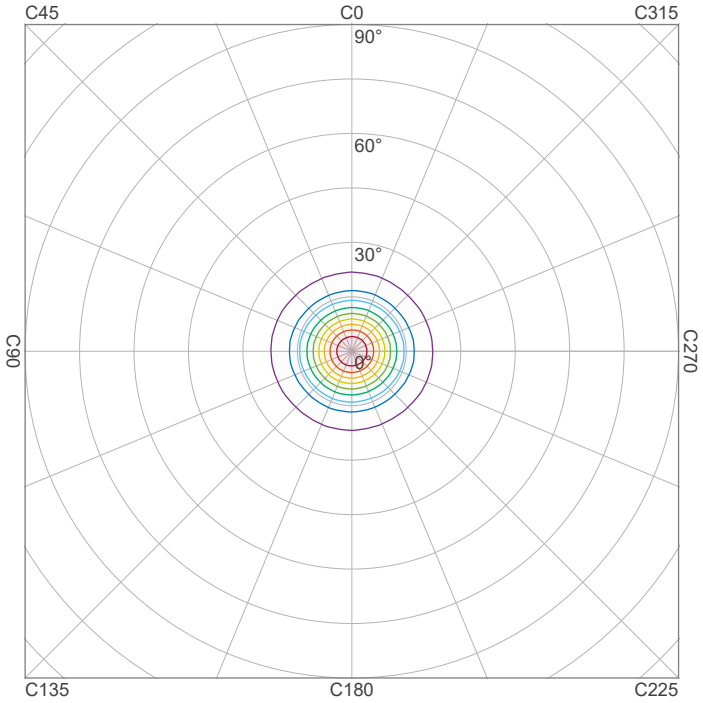
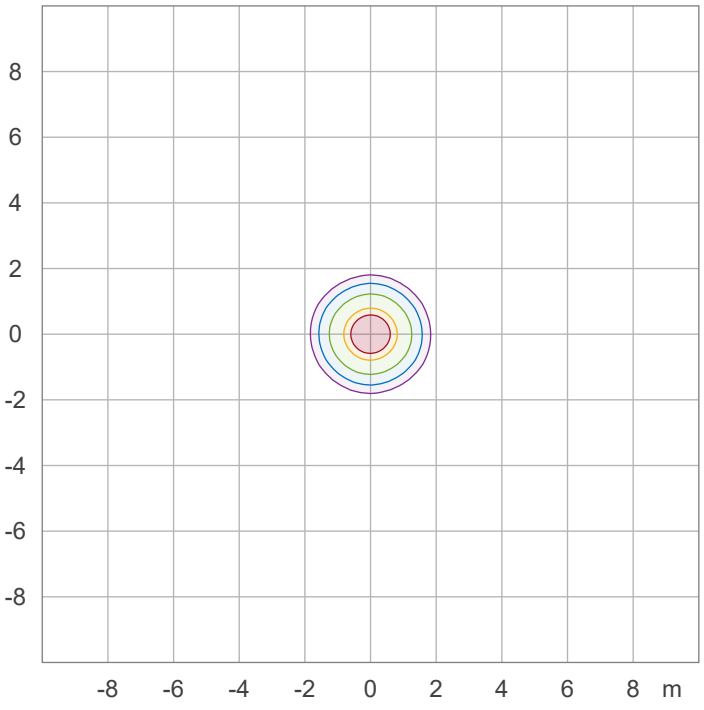
Iso-intensity Diagram (Iso-candela)



90 %	20600.1 cd
80 %	18311.2 cd
70 %	16022.3 cd
60 %	13733.4 cd
50 %	11444.5 cd
40 %	9155.6 cd
30 %	6866.7 cd
20 %	4577.8 cd
10 %	2288.9 cd

Peak intensity: 22889.0 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	1272 lx
30.0 %	763 lx
10.0 %	254 lx
5.0 %	127 lx
3.0 %	76.3 lx

Peak illuminance: 2543 lx
Mounting height: 3 m
Number of c-planes: 36

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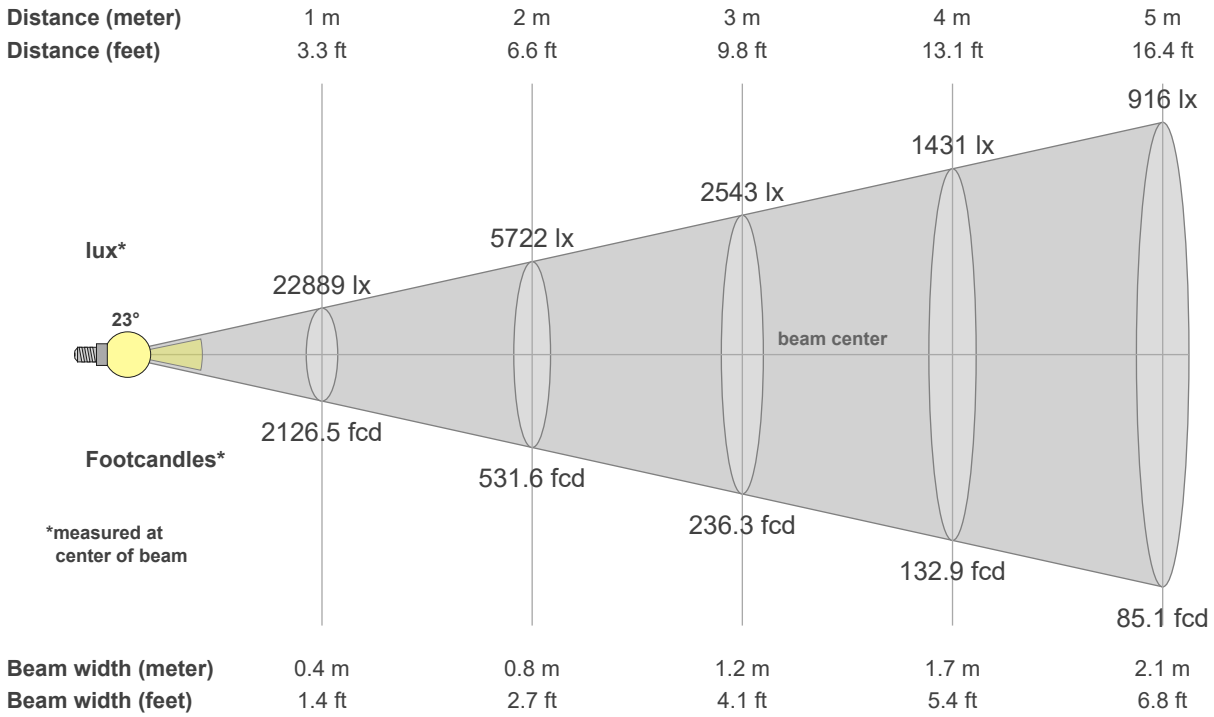
Beam details



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FL200-G2-XXX-RGBW3083-OM-20-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
22889	5722	2543	1431	916	636	467	358	283	229	189	159	135	117	102	89	79	71	63	57	lux
2126.5	531.6	236.3	132.9	85.1	59.1	43.4	33.2	26.3	21.3	17.6	14.8	12.6	10.8	9.5	8.3	7.4	6.6	5.9	5.3	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
22.9k	22.5k	21.1k	19.0k	16.4k	13.6k	10.9k	8.5k	6.5k	4.9k	3.8k	3.0k	2.3k	1.9k	1.5k	1.2k	1.0k	0.8k	0.7k	0.6k	cd
100%	98%	92%	83%	72%	59%	48%	37%	28%	22%	17%	13%	10%	8%	7%	5%	4%	4%	3%	2%	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
22.9k	22.5k	21.2k	19.1k	16.6k	13.9k	11.2k	8.9k	6.9k	5.3k	4.1k	3.2k	2.5k	2.0k	1.6k	1.3k	1.0k	0.8k	0.7k	0.6k	cd
100%	98%	92%	84%	72%	61%	49%	39%	30%	23%	18%	14%	11%	9%	7%	6%	5%	4%	3%	3%	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
22.9k	22.5k	21.1k	19.0k	16.4k	13.6k	10.9k	8.5k	6.5k	4.9k	3.8k	3.0k	2.3k	1.9k	1.5k	1.2k	1.0k	0.8k	0.7k	0.6k	cd
100%	98%	92%	83%	72%	59%	48%	37%	28%	22%	17%	13%	10%	8%	7%	5%	4%	4%	3%	2%	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
22.9k	22.5k	21.2k	19.1k	16.6k	13.9k	11.2k	8.9k	6.9k	5.3k	4.1k	3.2k	2.5k	2.0k	1.6k	1.3k	1.0k	0.8k	0.7k	0.6k	cd
100%	98%	92%	84%	72%	61%	49%	39%	30%	23%	18%	14%	11%	9%	7%	6%	5%	4%	3%	3%	of 0°val

Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-20-INF-XXXXX-X (ALL ON)

Power details

Input power	
Frequency of input power	0.0 Hz
Power feed to light source	127.8 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	127.8 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

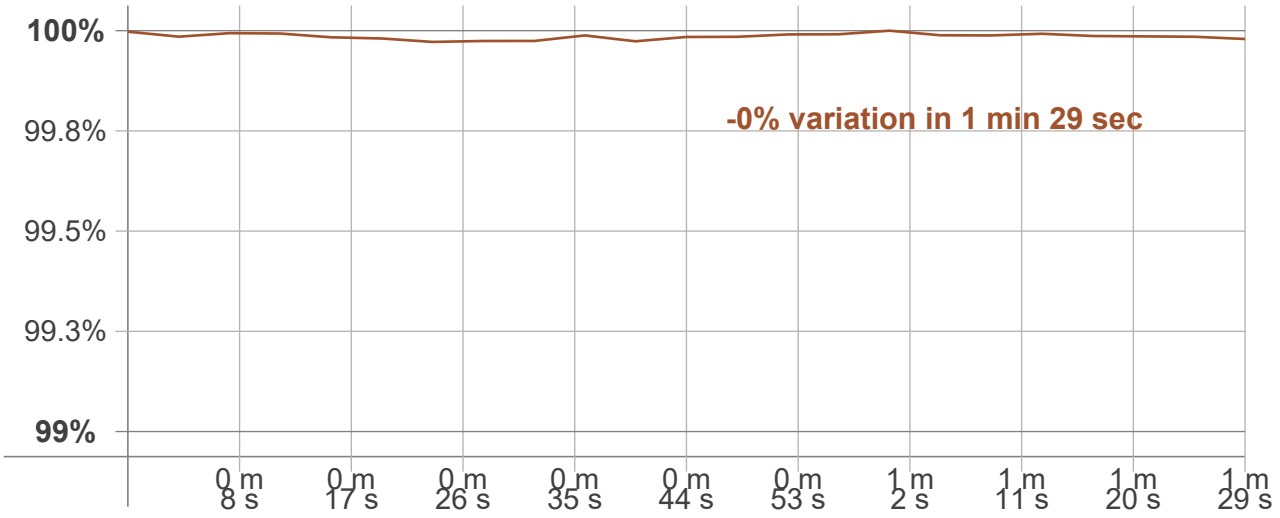
Efficiency

Radiated power efficiency	19.34
Lumen efficiency	45.7 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	5839 lm
Warmup variation	0.0402%	Output change	0.2215 lm
		Output end	5840 lm

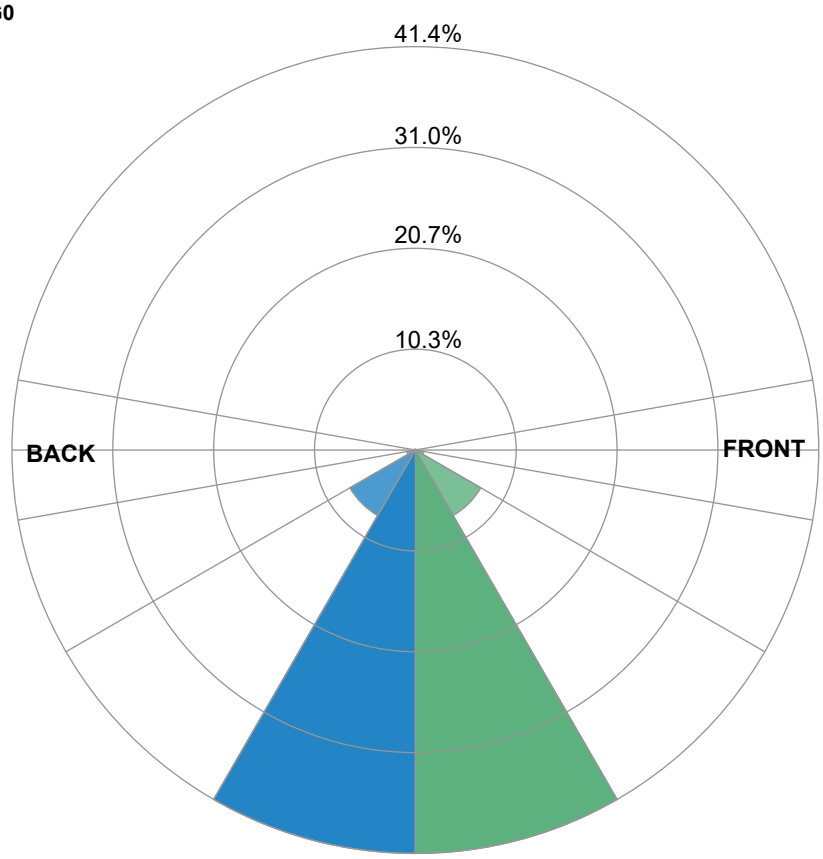
Stabilization Curve



Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-20-INF-XXXXX-X (ALL ON)

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

Forward Light			
Low (0-30°)	2420	lm	41.4%
Medium (30-60°)	453	lm	7.76%
High (60-80°)	50.3	lm	0.861%
Very High (80-90°)	0.0273	lm	0.000467%
Back Light			
Low (0-30°)	2420	lm	41.4%
Medium (30-60°)	453	lm	7.76%
High (60-80°)	50.3	lm	0.861%
Very High (80-90°)	0.0273	lm	0.000467%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	5840	lm	100%

BUG RATING B3 U0 G0