Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-50-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.Apr.16-7923-VO
Measurement date	2026-04-16

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	2.00°
Input Power	128.5 W

Electrical Data

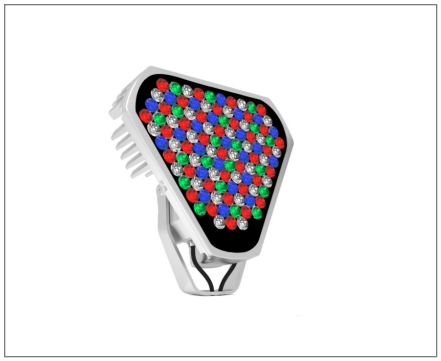
Input Power	128.5 W
Input Voltage	381.4 V DC
Input Current	0.34 A
Power Factor	1.00

Tested Light Source

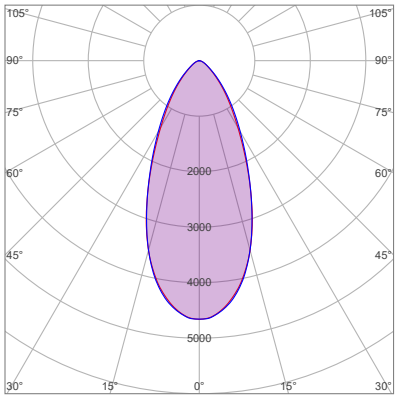
Product family	FL200-G2
Luminaire configuration	FL200-G2-XXX-RGBW3083-OM-50-INF-XXXXX-X (R)
Manufacturer	GVA Lighting, Inc.
Size (width x length x height)	106 mm 0 mm x 430 mm

Main Light Measurement Results

Output – Total Lumen	3604 - 0% / 100%
Efficiency	28.04 lm/W
Peak Intensity	4669
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	45.5°
Beam Angle (FWHM) | C90/270	45.8°
Field Angle (10%) | C0/180	88.8°Unit: 0-100% of peak intensity
Optical Power	18664 mW
Peak Wavelength	633 nm
Dominant Wavelength	622 nm

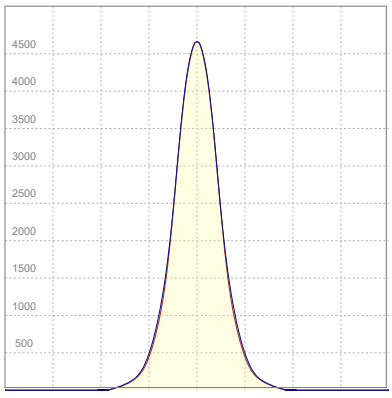


Polar Light Distribution Diagram
Unit: 0-100% of peak intensity

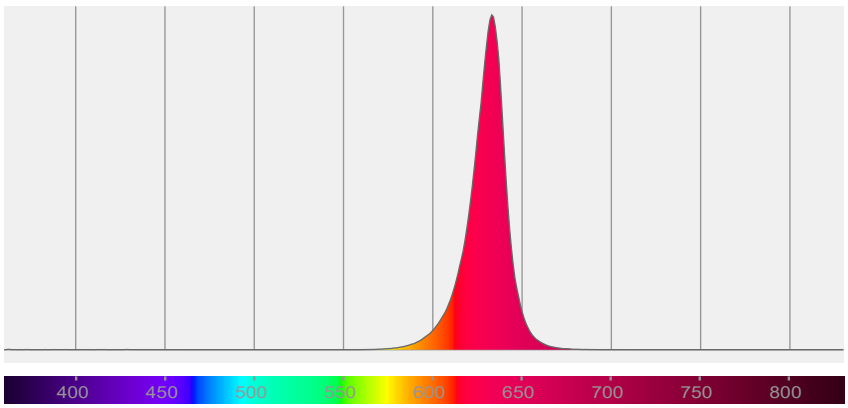


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

NaN K

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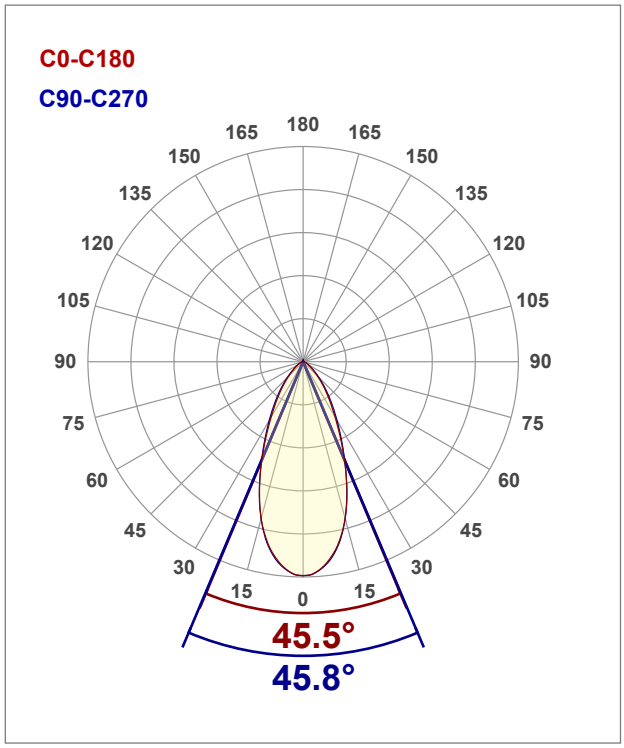
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	3604 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	4669 cd
Beam Angle (50%-FWHM)	45.2°

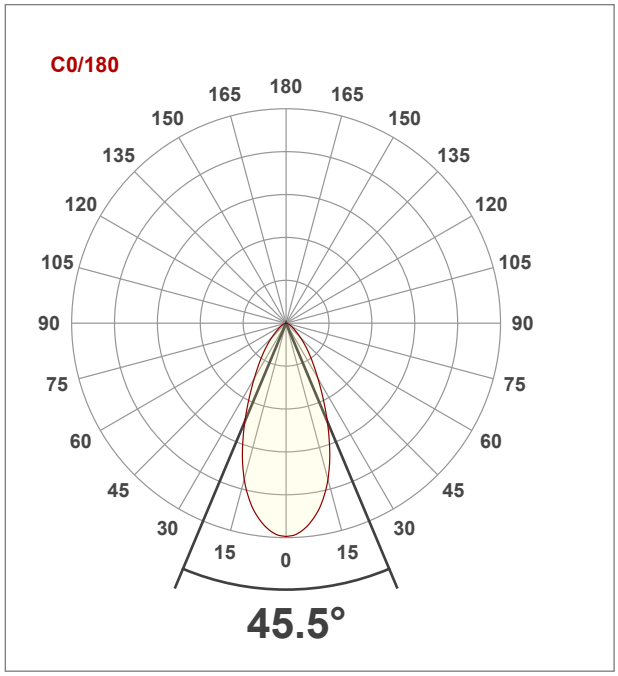
EU Ecodesign parameters

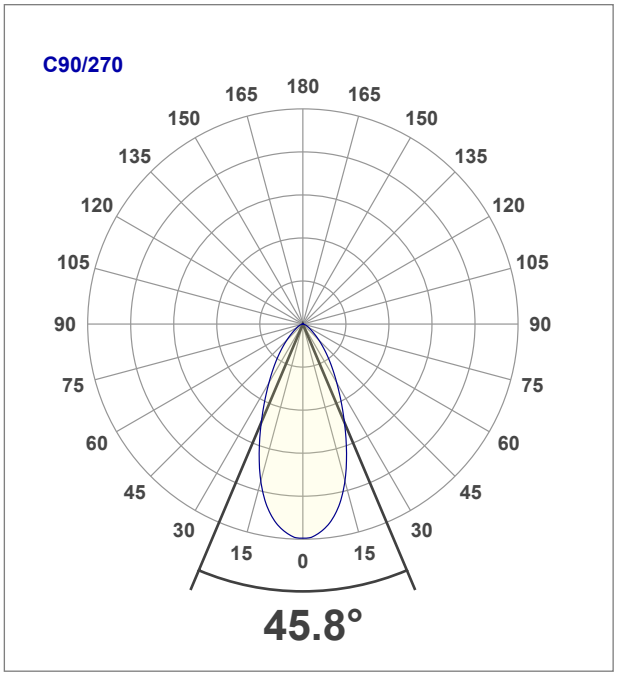
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	3141 lm
Ecodesign Energy Class	G

Intensity Ratio

In 120° cone	96.23%
In 90° cone	87.15%

Angular Distribution





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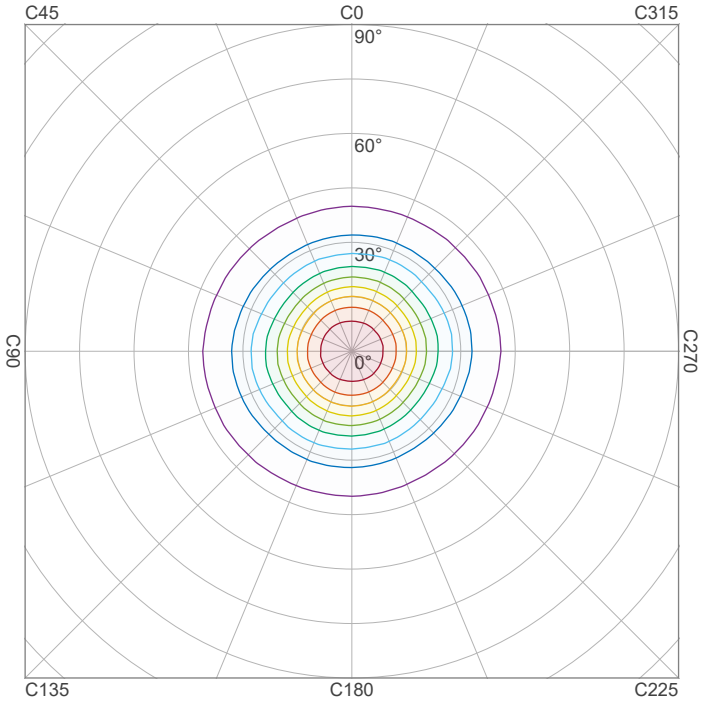
FL200-G2-XXX-RGBW3083-OM-50-INF-XXXXX-X (R)

Iso-intensity Diagram (Iso-candela)

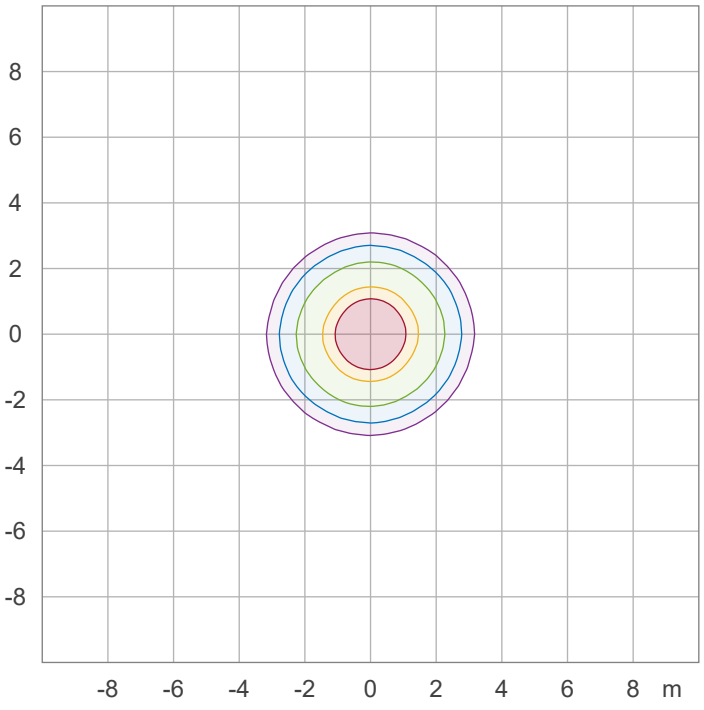


90 %	4200.4 cd
80 %	3733.6 cd
70 %	3266.9 cd
60 %	2800.2 cd
50 %	2333.5 cd
40 %	1866.8 cd
30 %	1400.1 cd
20 %	933.4 cd
10 %	466.7 cd

Peak intensity: 4667.1 cd

Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	259 lx
30.0 %	155 lx
10.0 %	51.8 lx
5.0 %	25.9 lx
3.0 %	15.5 lx

Peak illuminance: 518 lx

Mounting height: 3 m

Number of c-planes: 36

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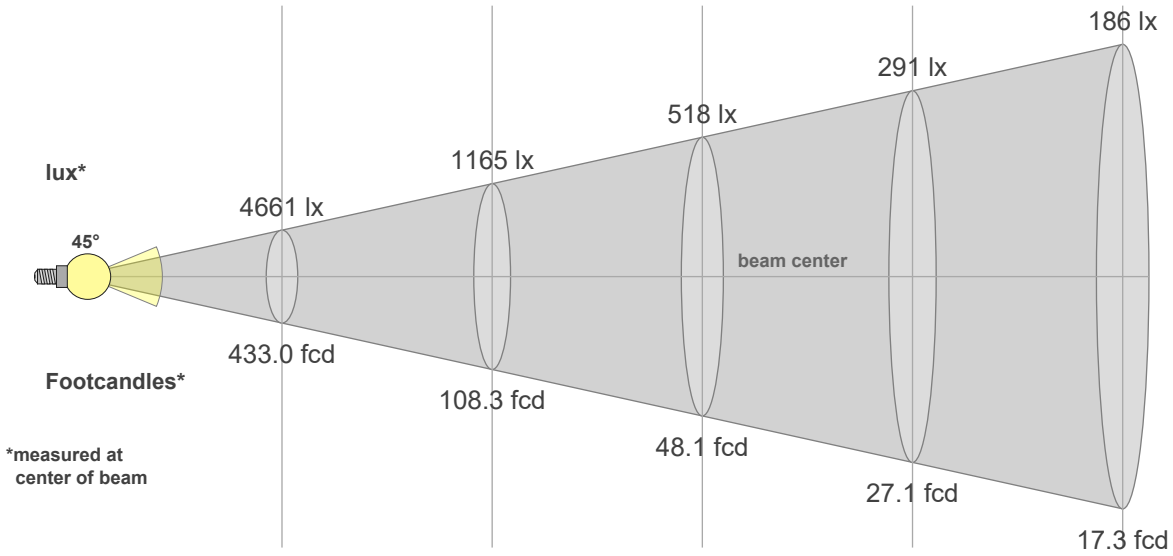
Beam details

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)	0.8 m	1.7 m	2.5 m	3.3 m	4.2 m
Beam width (feet)	2.7 ft	5.5 ft	8.2 ft	10.9 ft	13.7 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
4661	1165	518	291	186	129	95	73	58	47	39	32	28	24	21	18	16	14	13	12	lux
433	108.3	48.1	27.1	17.3	12	8.8	6.8	5.3	4.3	3.6	3	2.6	2.2	1.9	1.7	1.5	1.3	1.2	1.1	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
4661	4637	4566	4453	4305	4129	3911	3668	3389	3089	2766	2449	2142	1861	1609	1393	1204	1046	905	783	cd
100%	99%	98%	96%	92%	89%	84%	79%	73%	66%	59%	53%	46%	40%	35%	30%	26%	22%	19%	17%	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
4661	4641	4574	4472	4335	4154	3935	3674	3384	3072	2759	2456	2171	1915	1682	1476	1295	1132	987	854	cd
100%	100%	98%	96%	93%	89%	84%	79%	73%	66%	59%	53%	47%	41%	36%	32%	28%	24%	21%	18%	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
4661	4637	4566	4453	4305	4129	3911	3668	3389	3089	2766	2449	2142	1861	1609	1393	1204	1046	905	783	cd
100%	99%	98%	96%	92%	89%	84%	79%	73%	66%	59%	53%	46%	40%	35%	30%	26%	22%	19%	17%	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
4661	4641	4574	4472	4335	4154	3935	3674	3384	3072	2759	2456	2171	1915	1682	1476	1295	1132	987	854	cd
100%	100%	98%	96%	93%	89%	84%	79%	73%	66%	59%	53%	47%	41%	36%	32%	28%	24%	21%	18%	of 0°val

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FL200-G2-XXX-RGBW3083-OM-50-INF-XXXXX-X (R)

Power details

Input power	
Frequency of input power	0.0 Hz
Power feed to light source	128.5 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	128.5 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

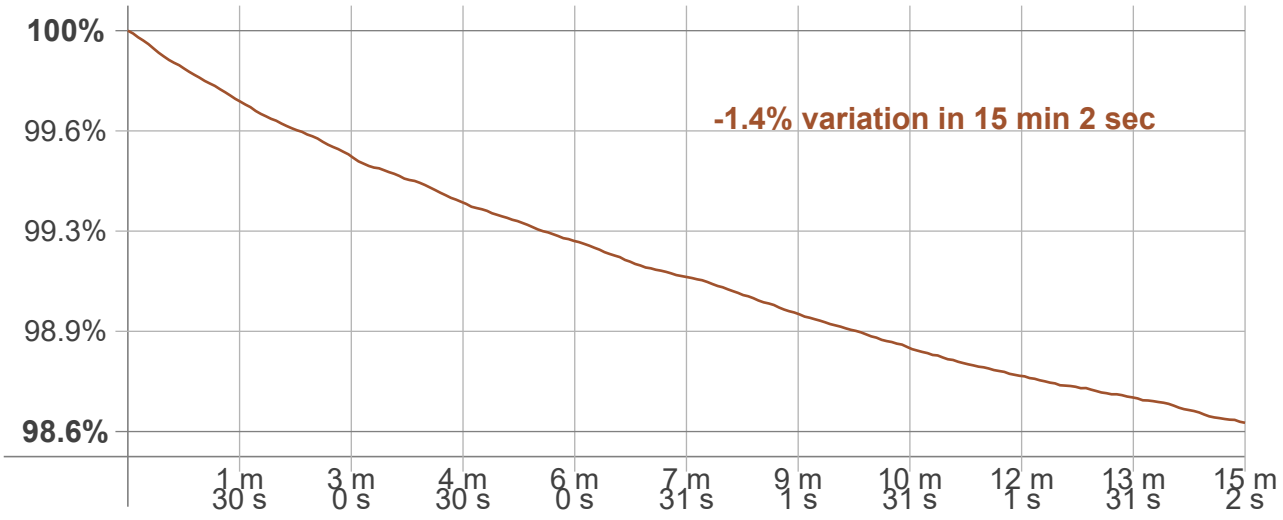
Efficiency

Radiated power efficiency	14.52
Lumen efficiency	28.04 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 2 sec	Output start	3656 lm
Warmup variation	-1.4326%	Output change	-51.474 lm
		Output end	3604 lm

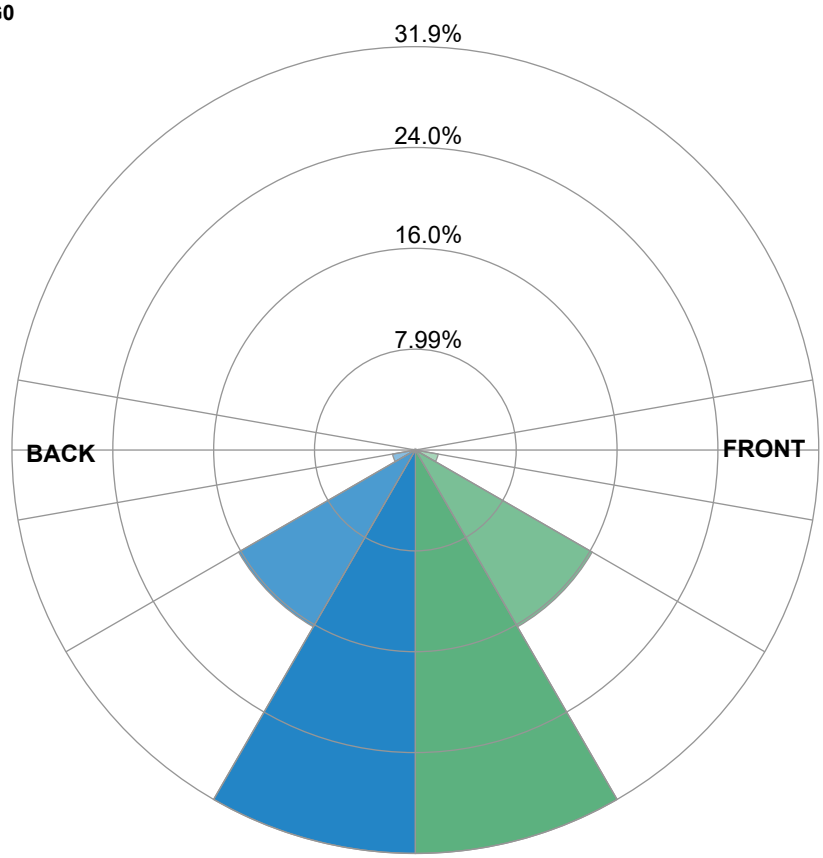
Stabilization Curve



Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-50-INF-XXXXX-X (R)

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

Forward Light			
Low (0-30°)	1150	lm	31.9%
Medium (30-60°)	583	lm	16.2%
High (60-80°)	66.1	lm	1.83%
Very High (80-90°)	1.91	lm	0.0529%
Back Light			
Low (0-30°)	1150	lm	31.9%
Medium (30-60°)	583	lm	16.2%
High (60-80°)	66.1	lm	1.83%
Very High (80-90°)	1.91	lm	0.0529%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	3604	lm	100%

BUG RATING B3 U0 G0