Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-20L-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.Jun.03-9307-VO
Measurement date	2026-06-03

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	1.00°
Input Power	128.9 W

Electrical Data

Input Power	128.9 W
Input Voltage	381.5 V DC
Input Current	0.34 A
Power Factor	1.00

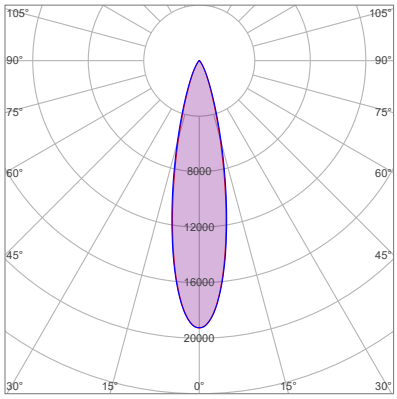
Tested Light Source

Product family	FL200-G2
Luminaire configuration	FL200-G2-XXX-RGBW3083-OM-20L-INF-XXXXX-X (ALL ON)
Manufacturer	GVA Lighting, Inc.
Size (width x length x height)	0 mm 0 mm x 10 mm

Main Light Measurement Results

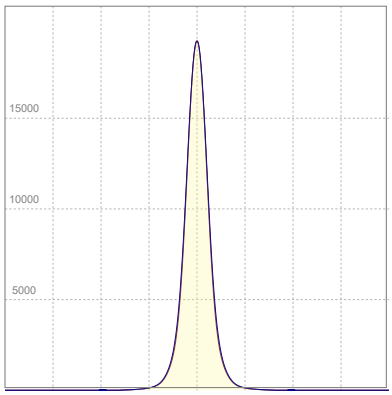
Output – Total Lumen	4147 - 0% / 100%
Efficiency	32.16 lm/W
Peak Intensity	19255
Correlated Color Temperature, CCT	n/a
Color Rendering Index	n/a
Beam Angle (FWHM) | C0/180	22.4°
Beam Angle (FWHM) | C90/270	23.1°
Field Angle (10%) | C0/180	44.8°Unit: 0-100% of peak intensity
Optical Power	17591 mW
Peak Wavelength	453 nm
Dominant Wavelength	539 nm

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

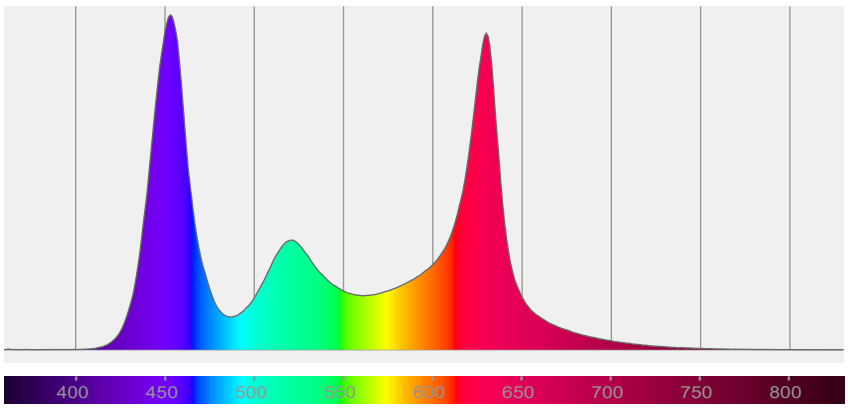


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

NaN K

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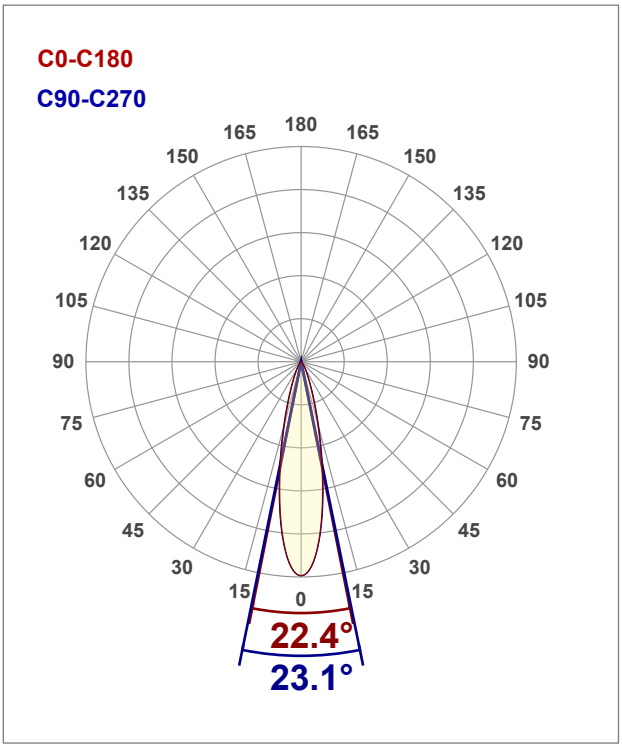
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	4147 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	19255 cd
Beam Angle (50%-FWHM)	22.7°

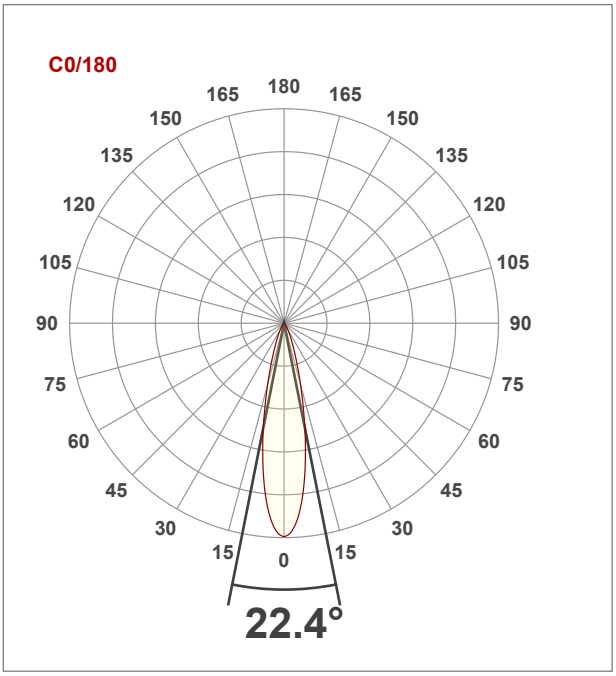
EU Ecodesign parameters

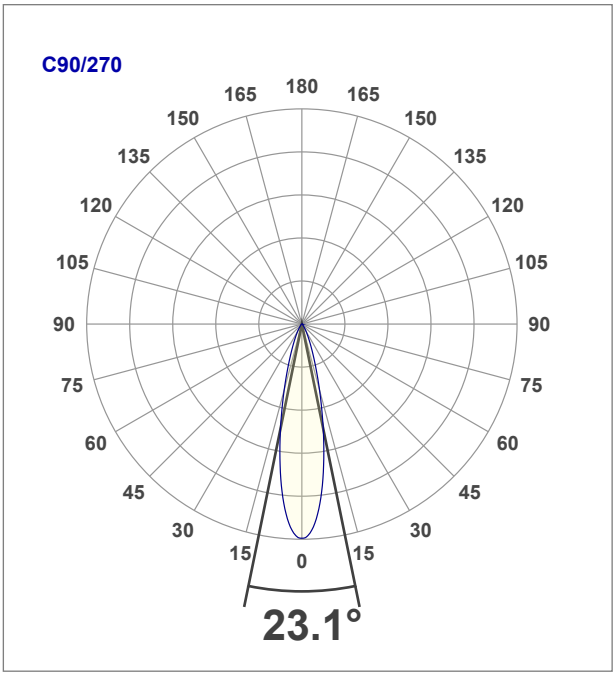
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	4041 lm
Ecodesign Energy Class	G

Intensity Ratio

In 120° cone	99.5%
In 90° cone	97.43%

Angular Distribution





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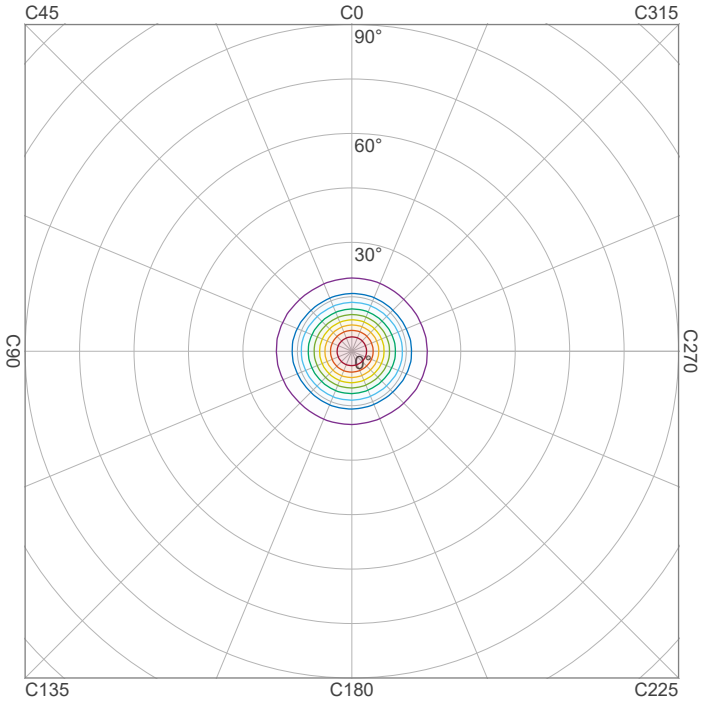
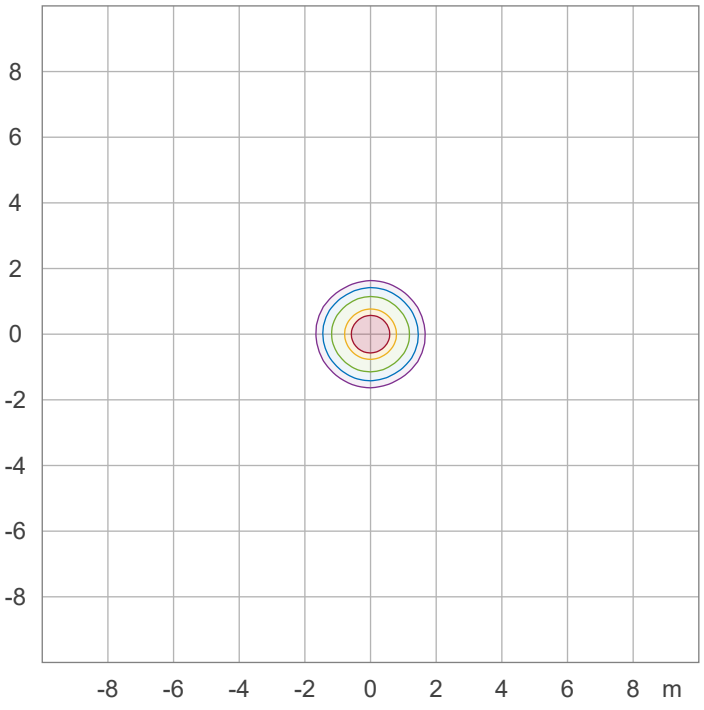
Iso-intensity Diagram (Iso-candela)



90 %	17300.9 cd
80 %	15378.6 cd
70 %	13456.2 cd
60 %	11533.9 cd
50 %	9611.6 cd
40 %	7689.3 cd
30 %	5767.0 cd
20 %	3844.6 cd
10 %	1922.3 cd

Peak intensity: 19223.2 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	1068 lx
30.0 %	641 lx
10.0 %	214 lx
5.0 %	107 lx
3.0 %	64.1 lx

Peak illuminance: 2136 lx
Mounting height: 3 m
Number of c-planes: 36

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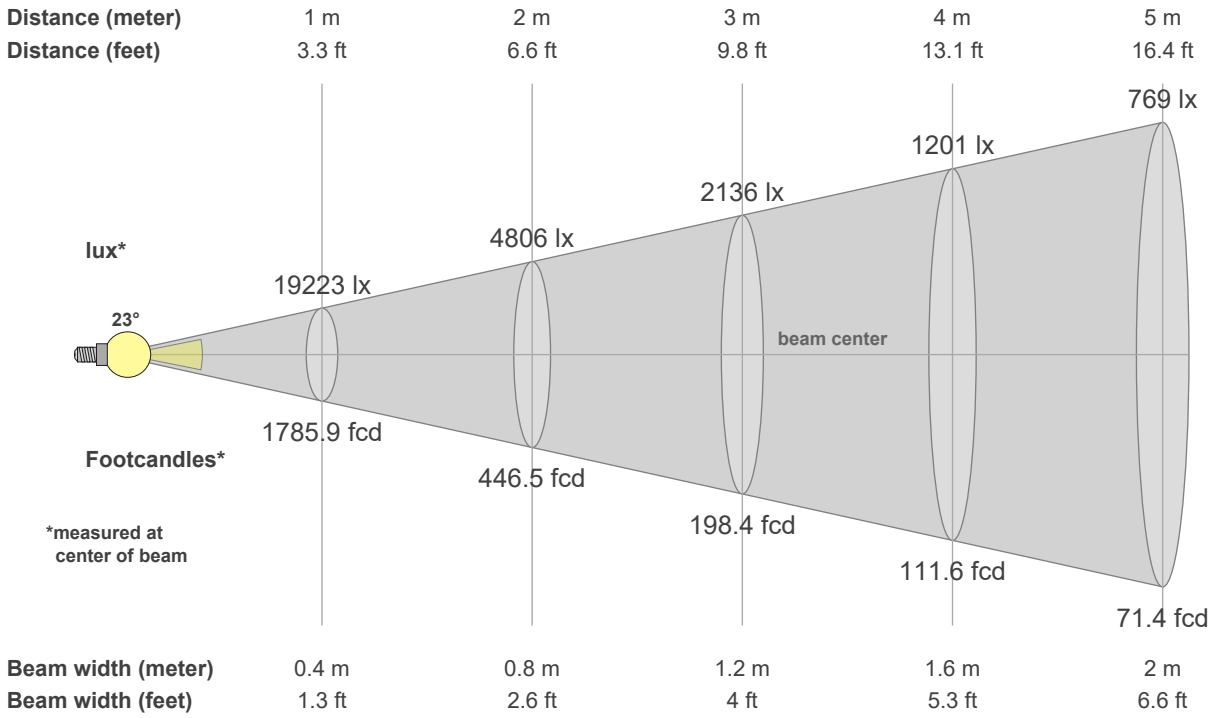
Beam details



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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
19223	4806	2136	1201	769	534	392	300	237	192	159	133	114	98	85	75	67	59	53	48	lux
1785.9	446.5	198.4	111.6	71.4	49.6	36.4	27.9	22	17.9	14.8	12.4	10.6	9.1	7.9	7	6.2	5.5	4.9	4.5	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
19.2k	18.8k	17.6k	15.8k	13.5k	11.1k	8.7k	6.7k	5.0k	3.7k	2.7k	2.0k	1.6k	1.2k	0.9k	0.7k	0.5k	0.4k	0.3k	0.2k	cd
100%	98%	92%	82%	70%	58%	45%	35%	26%	19%	14%	11%	8%	6%	5%	4%	3%	2%	2%	1%	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
19.2k	18.9k	17.7k	15.9k	13.7k	11.4k	9.1k	7.0k	5.3k	4.0k	3.0k	2.2k	1.7k	1.3k	1.0k	0.8k	0.6k	0.4k	0.3k	0.3k	cd
100%	98%	92%	83%	71%	59%	47%	37%	28%	21%	16%	12%	9%	7%	5%	4%	3%	2%	2%	1%	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
19.2k	18.8k	17.6k	15.8k	13.5k	11.1k	8.7k	6.7k	5.0k	3.7k	2.7k	2.0k	1.6k	1.2k	0.9k	0.7k	0.5k	0.4k	0.3k	0.2k	cd
100%	98%	92%	82%	70%	58%	45%	35%	26%	19%	14%	11%	8%	6%	5%	4%	3%	2%	2%	1%	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
19.2k	18.9k	17.7k	15.9k	13.7k	11.4k	9.1k	7.0k	5.3k	4.0k	3.0k	2.2k	1.7k	1.3k	1.0k	0.8k	0.6k	0.4k	0.3k	0.3k	cd
100%	98%	92%	83%	71%	59%	47%	37%	28%	21%	16%	12%	9%	7%	5%	4%	3%	2%	2%	1%	of 0°val

Photometric Test Report

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

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	381.5 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

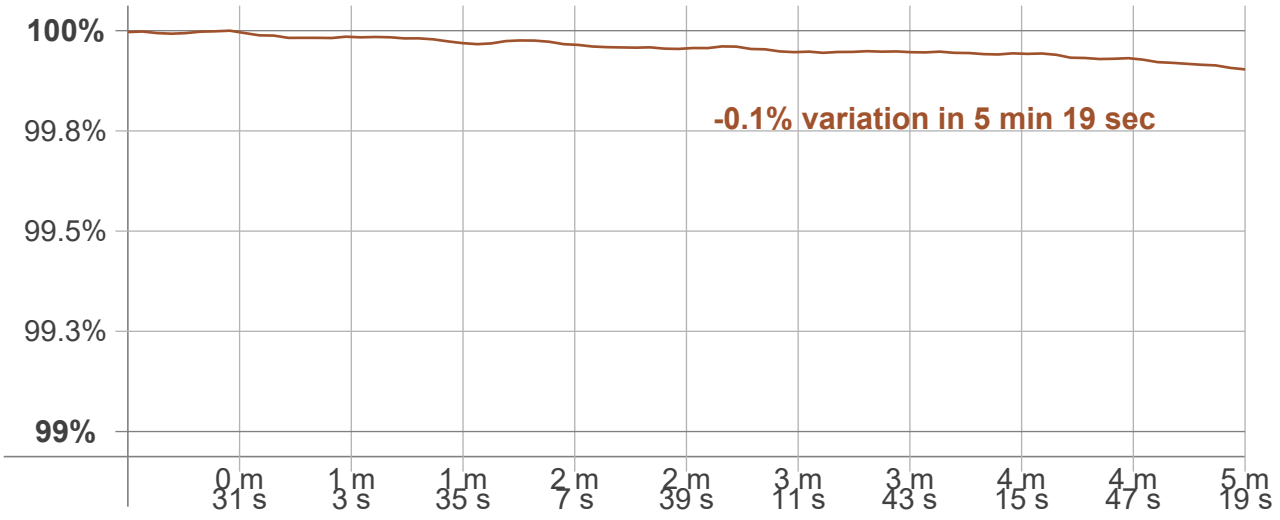
Efficiency

Radiated power efficiency	13.64
Lumen efficiency	32.16 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	4151 lm
Warmup variation	-0.0975%	Output change	-3.2068 lm
		Output end	4147 lm

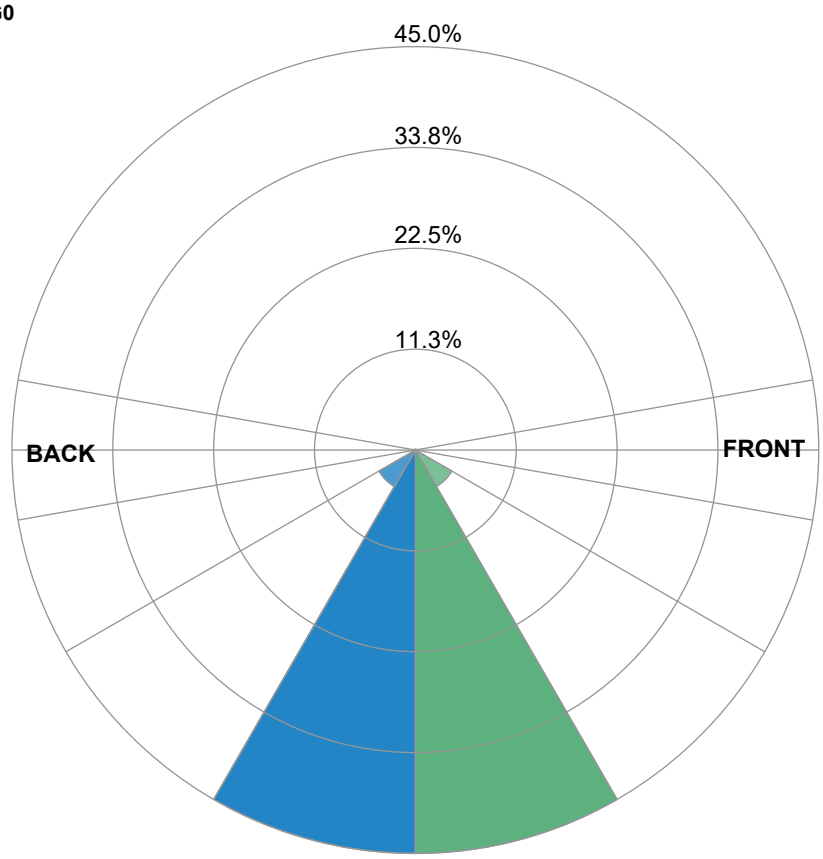
Stabilization Curve



Photometric Test Report

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

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

Forward Light			
Low (0-30°)	1870	lm	45.0%
Medium (30-60°)	195	lm	4.71%
High (60-80°)	10.5	lm	0.252%
Very High (80-90°)	0	lm	0%
Back Light			
Low (0-30°)	1870	lm	45.0%
Medium (30-60°)	195	lm	4.71%
High (60-80°)	10.5	lm	0.252%
Very High (80-90°)	0	lm	0%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	4147	lm	100%

BUG RATING B3 U0 G0