# Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-4L-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.Mar.17-7384-VO |
| Measurement date | 2026-03-17 |

## Measurement Conditions

| | |
|---|---|
| Tested c-planes | 36 planes – 10.00° |
| Tested gamma resolution | 0.20° |
| Input Power | 0 W |

## Electrical Data

| | |
|---|---|
| Input Power | 0 W |
| Input Voltage | 117.6 V DC |
| Input Current | 0.00 A |
| Power Factor | NaN |

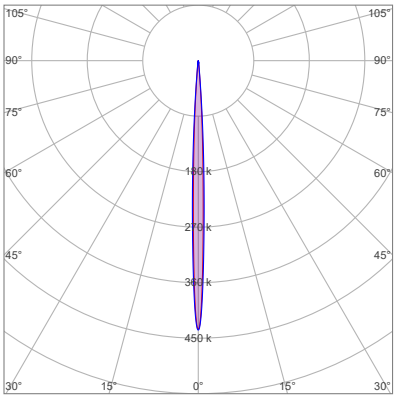
## Tested Light Source

| | |
|---|---|
| Product family | FL200-G2 |
| Luminaire configuration | FL200-G2-XXX-RGBW3083-OM-4L-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

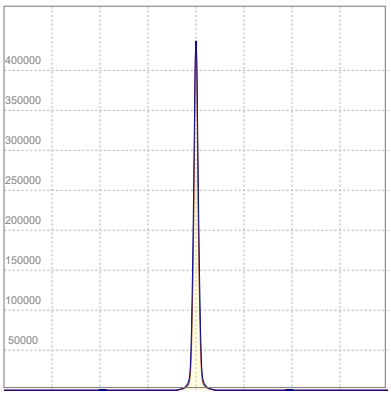
| | |
|---|---|
| Output – Total Lumen | 4097 - 0% / 100% |
| Efficiency | ∞ lm/W |
| Peak Intensity | 436582 |
| Correlated Color Temperature, CCT | n/a |
| Color Rendering Index | n/a |
| Beam Angle (FWHM) \| C0/180 | 4.2° |
| Beam Angle (FWHM) \| C90/270 | 5.0° |
| Field Angle (10%) \| C0/180 | 9.0°Unit: 0-100% of peak intensity |
| Optical Power | 20701 mW |
| Peak Wavelength | 453 nm |
| Dominant Wavelength | 557 nm |

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

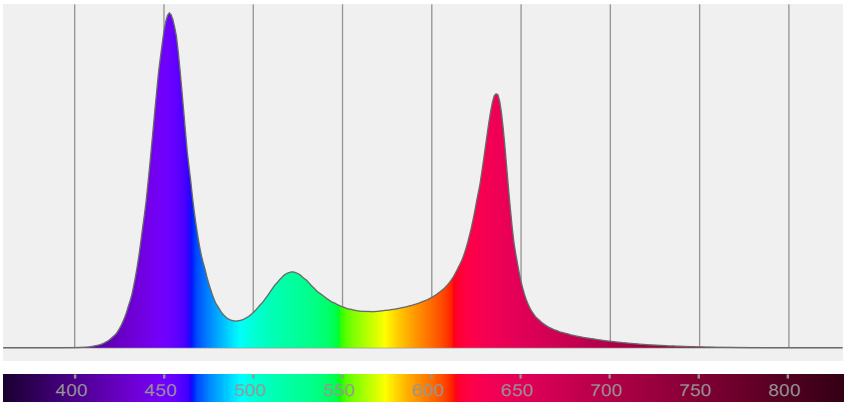



C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram




Spectral Distribution




Color Temperature

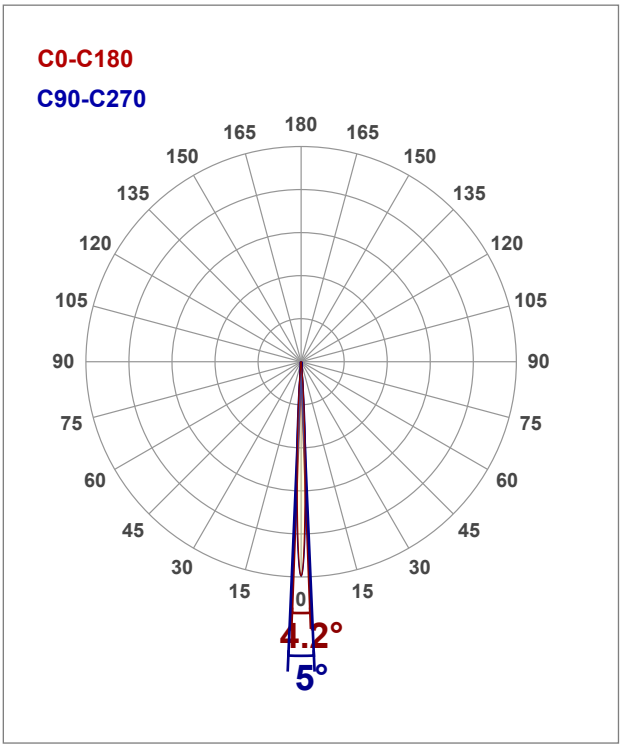
NaN K

# Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-4L-INF-XXXXX-X (ALL ON)

## Luminous Intensity diagram

Unit: 0-100% of peak intensity




## Main Values

| | |
|---|---|
| Output (total Lumen) | 4097 lm |
| Lumen Up% / Down% | 0% / 100% |
| Peak Intensity | 436582 cd |
| Beam Angle (50%-FWHM) | 4.4° |

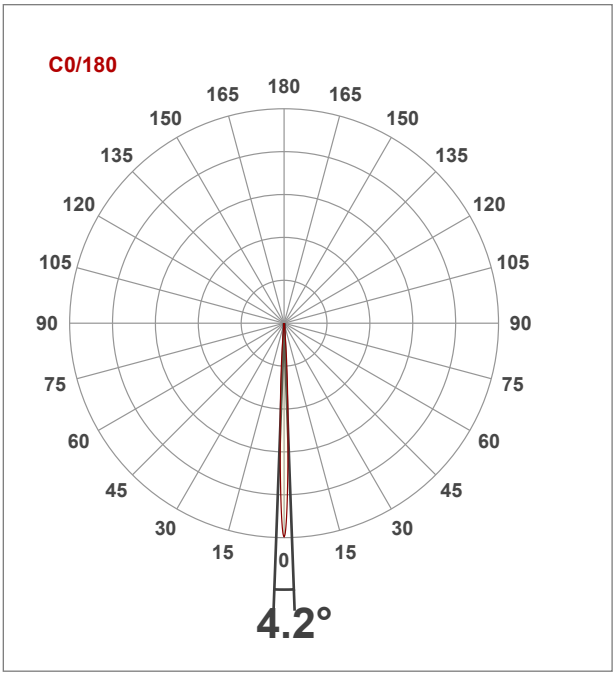
## EU Ecodesign parameters

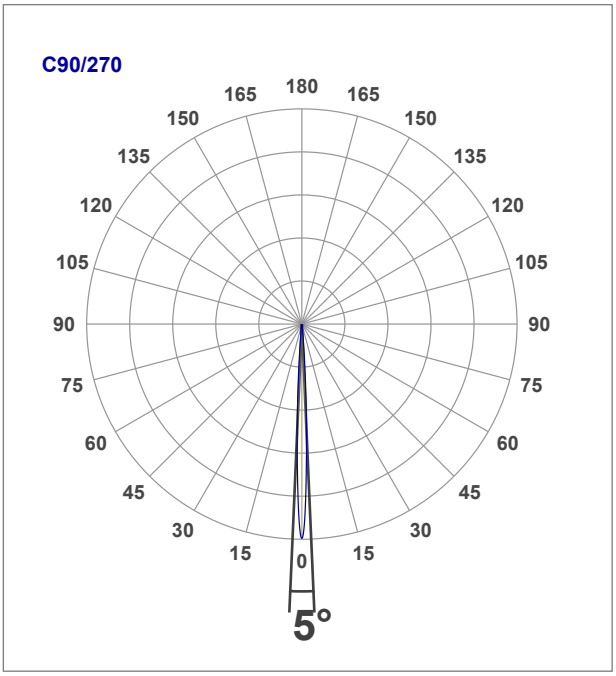
| | |
|---|---|
| Directionality (DLS or NDLS) | DLS |
| Ecodesign Useful Luminous Flux | 4097 lm |
| Ecodesign Energy Class | A |

## Intensity Ratio

| | |
|---|---|
| In 120° cone | 100% |
| In 90° cone | 100% |

## Angular Distribution

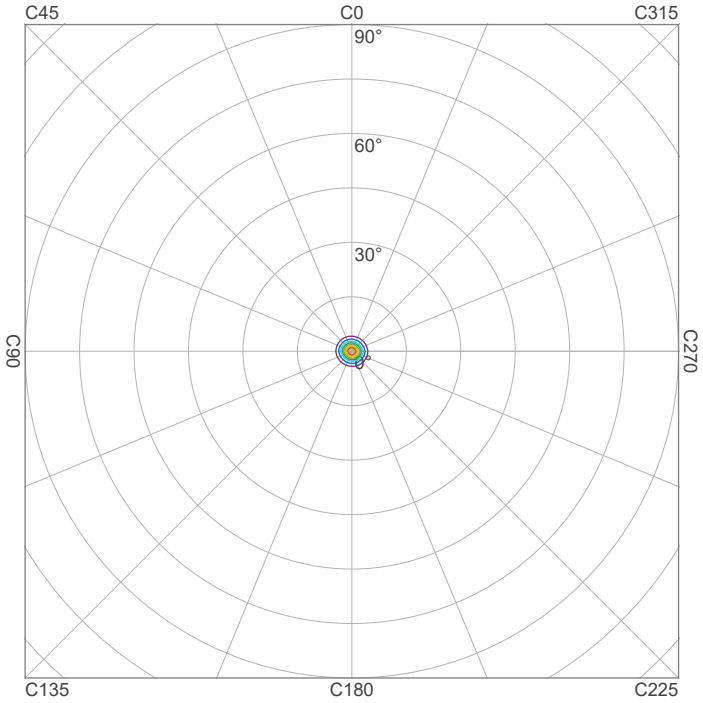


# Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-4L-INF-XXXXX-X (ALL ON)

## Iso-intensity Diagram (Iso-candela)

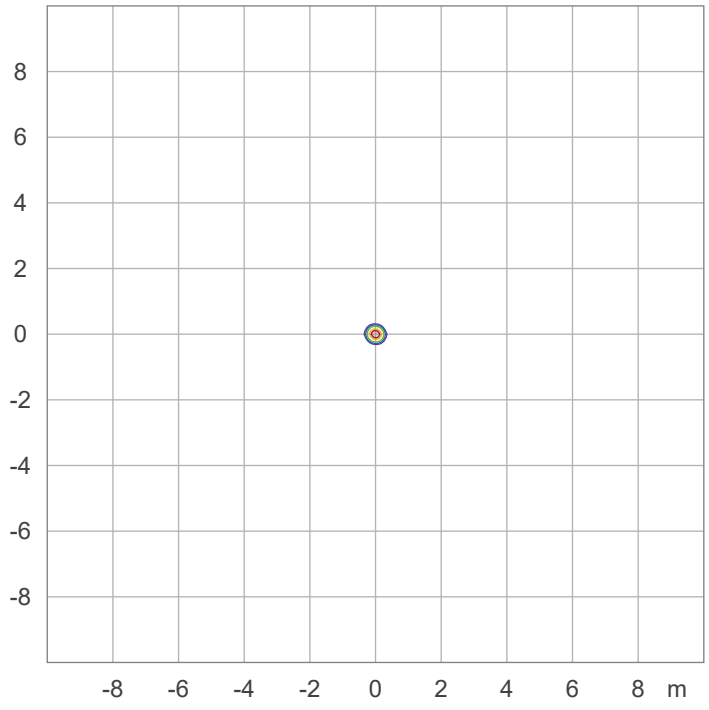



| | | |
|---|---|---|
| 90 % | 392211.0 cd |
| 80 % | 348632.0 cd |
| 70 % | 305053.0 cd |
| 60 % | 261474.0 cd |
| 50 % | 217895.0 cd |
| 40 % | 174316.0 cd |
| 30 % | 130737.0 cd |
| 20 % | 87158.0 cd |
| 10 % | 43579.0 cd |

Peak intensity: 435790.0 cd

Number of c-planes: 36

## Iso-illuminance Diagram (Iso-lux)




| | |
|---|---|
| 50.0 % | 24211 lx |
| 30.0 % | 14526 lx |
| 10.0 % | 4842 lx |
| 5.0 % | 2421 lx |
| 3.0 % | 1453 lx |

Peak illuminance: 48421 lx

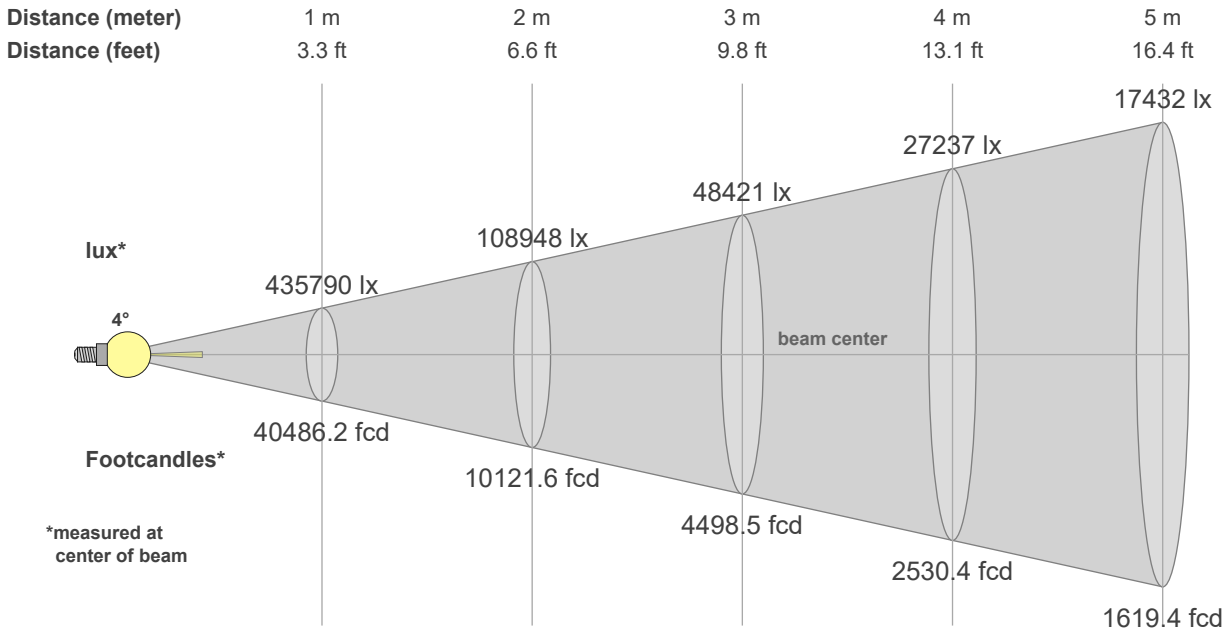
Mounting height: 3 m

Number of c-planes: 36

# Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-4L-INF-XXXXX-X (ALL ON)

## Beam details




| | | | | | |
|---|---|---|---|---|---|
| **Beam width (meter)** | 0.1 m | 0.2 m | 0.2 m | 0.3 m | 0.4 m |
| **Beam width (feet)** | 0.2 ft | 0.5 ft | 0.7 ft | 1 ft | 1.2 ft |

# Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-4L-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 |
| 435790 | 108948 | 48421 | 27237 | 17432 | 12105 | 8894 | 6809 | 5380 | 4358 | 3602 | 3026 | 2579 | 2223 | 1937 | 1702 | 1508 | 1345 | 1207 | 1089 | lux |
| 40486.2 | 10121.6 | 4498.5 | 2530.4 | 1619.4 | 1124.6 | 826.2 | 632.6 | 499.8 | 404.9 | 334.6 | 281.2 | 239.6 | 206.6 | 179.9 | 158.1 | 140.1 | 125 | 112.2 | 101.2 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 436k | 364k | 229k | 131k | 66k | 28k | 13k | 8k | 5k | 4k | 3k | 2k | 2k | 1k | 1k | 1k | 1k | 0k | 0k | 0k | cd |
| 100% | 84% | 53% | 30% | 15% | 6% | 3% | 2% | 1% | 1% | 1% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 436k | 382k | 269k | 169k | 90k | 39k | 18k | 11k | 8k | 6k | 4k | 3k | 3k | 2k | 2k | 1k | 1k | 0k | 0k | 0k | cd |
| 100% | 88% | 62% | 39% | 21% | 9% | 4% | 2% | 2% | 1% | 1% | 1% | 1% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 436k | 364k | 229k | 131k | 66k | 28k | 13k | 8k | 5k | 4k | 3k | 2k | 2k | 1k | 1k | 1k | 1k | 0k | 0k | 0k | cd |
| 100% | 84% | 53% | 30% | 15% | 6% | 3% | 2% | 1% | 1% | 1% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 436k | 382k | 269k | 169k | 90k | 39k | 18k | 11k | 8k | 6k | 4k | 3k | 3k | 2k | 2k | 1k | 1k | 0k | 0k | 0k | cd |
| 100% | 88% | 62% | 39% | 21% | 9% | 4% | 2% | 2% | 1% | 1% | 1% | 1% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | of 0°val |

# Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-4L-INF-XXXXX-X (ALL ON)

## Power details

| Input power | |
|---|---|
| Frequency of input power | 60.0 Hz |
| Power feed to light source | 0 W |
| RMS Input voltage feed V,RMS | 117.6 V |
| RMS Input current feed I,RMS | 0.00 A |
| Volt-Amp or apparent power = V,RMS*I,RMS | 0.0 VA |
| Displacement factor of AC power feed | 0.71 |
| Power factor of AC current feed | NaN |
| Total harmonic distortion of the current | NaN% |
| Total harmonic distortion of the voltage | 1.76% |

**Input power curve**

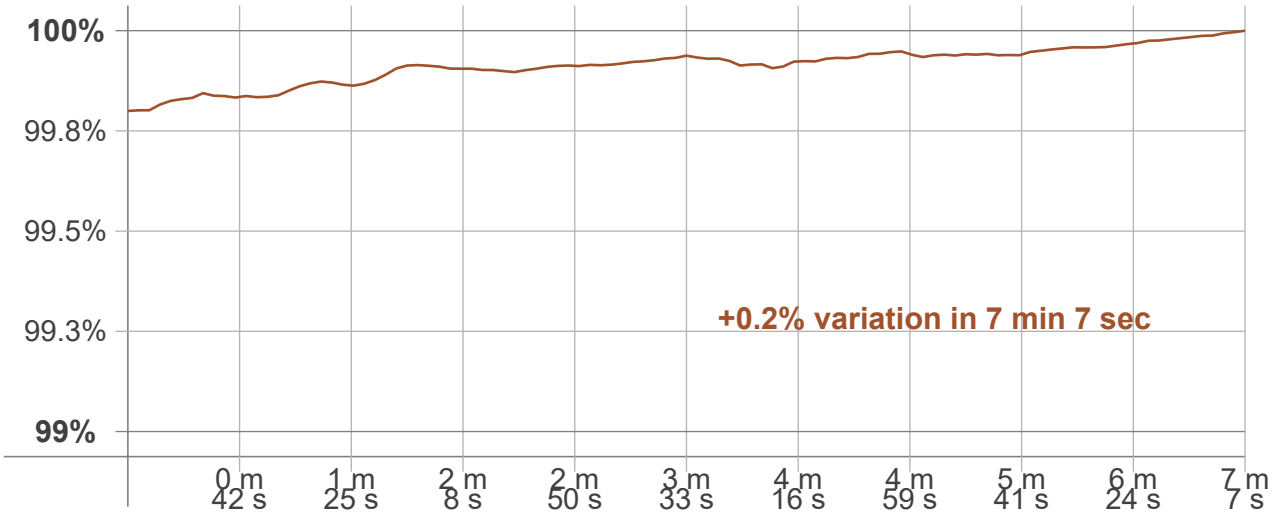
### Efficiency

| | |
|---|---|
| Radiated power efficiency | ∞ |
| Lumen efficiency | ∞ 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 | 4089 lm |
| Warmup variation | 0.2097% | Output change | 7.612 lm |
| | | Output end | 4097 lm |

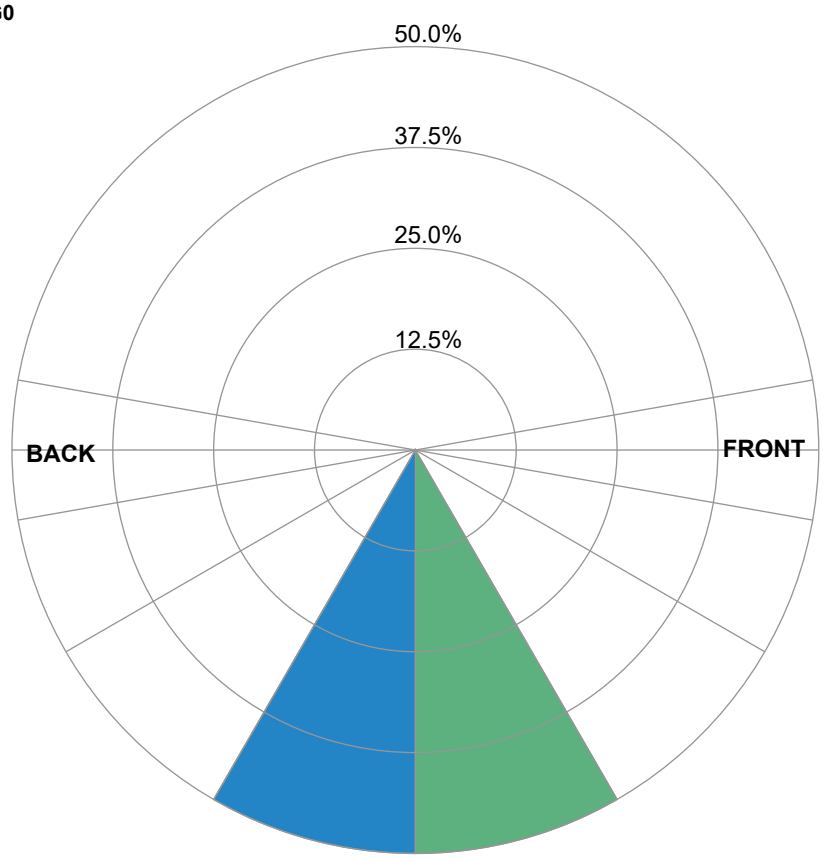
## Stabilization Curve



# Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-4L-INF-XXXXX-X (ALL ON)

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

| | | | |
|---|---|---|---|
| **Forward Light** | | | |
| Low (0-30°) | 2050 | lm | 50.0% |
| Medium (30-60°) | 0 | lm | 0% |
| High (60-80°) | 0 | lm | 0% |
| Very High (80-90°) | 0 | lm | 0% |
| **Back Light** | | | |
| Low (0-30°) | 2050 | lm | 50.0% |
| Medium (30-60°) | 0 | lm | 0% |
| High (60-80°) | 0 | lm | 0% |
| Very High (80-90°) | 0 | lm | 0% |
| **Uplight** | | | |
| Low (90-100°) | 0 | lm | 0% |
| High (100-180°) | 0 | lm | 0% |
| Total | | | |
| **Sum** | 4097 | lm | 100% |

**BUG RATING B3 U0 G0**