# Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-4010-INF-XXXXX-X (B)

## 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.26-8904-VO |
| Measurement date | 2026-05-26 |

## Measurement Conditions

| | |
|---|---|
| Tested c-planes | 36 planes – 10.00° |
| Tested gamma resolution | 0.30° |
| Input Power | 128.2 W |

## Electrical Data

| | |
|---|---|
| Input Power | 128.2 W |
| Input Voltage | 381.6 V DC |
| Input Current | 0.34 A |
| Power Factor | 1.00 |

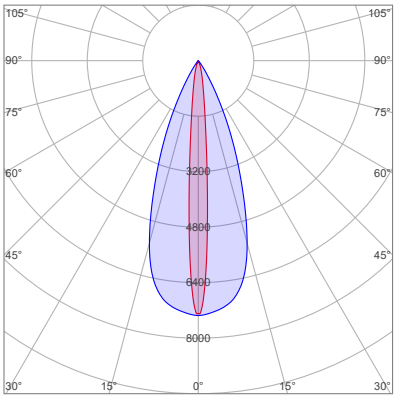
## Tested Light Source

| | |
|---|---|
| Product family | FL200-G2 |
| Luminaire configuration | FL200-G2-XXX-RGBW3083-OM-4010-INF-XXXXX-X (B) |
| Manufacturer | GVA Lighting, Inc. |
| Size (width x length x height) | 106 mm 0 mm x 430 mm |

## Main Light Measurement Results

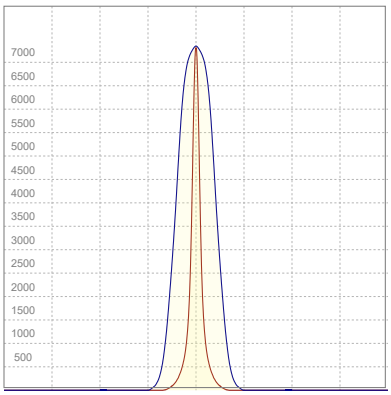
| | |
|---|---|
| Output – Total Lumen | 1009 - 0% / 100% |
| Efficiency | 7.872 lm/W |
| Peak Intensity | 7452 |
| Correlated Color Temperature, CCT | n/a |
| Color Rendering Index | n/a |
| Beam Angle (FWHM) \| C0/180 | 8.2° |
| Beam Angle (FWHM) \| C90/270 | 39.3° |
| Field Angle (10%) \| C0/180 | 21.3°Unit: 0-100% of peak intensity |
| Optical Power | 23840 mW |
| Peak Wavelength | 454 nm |
| Dominant Wavelength | 458 nm |

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

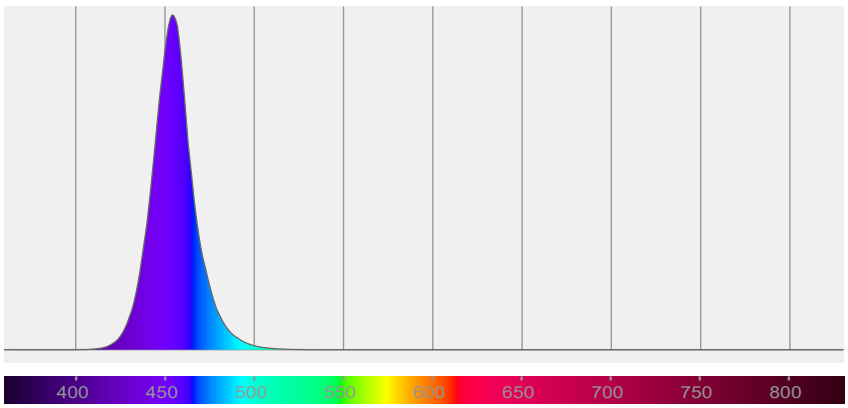



C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram




Spectral Distribution




Color Temperature

NaN K

# Photometric Test Report

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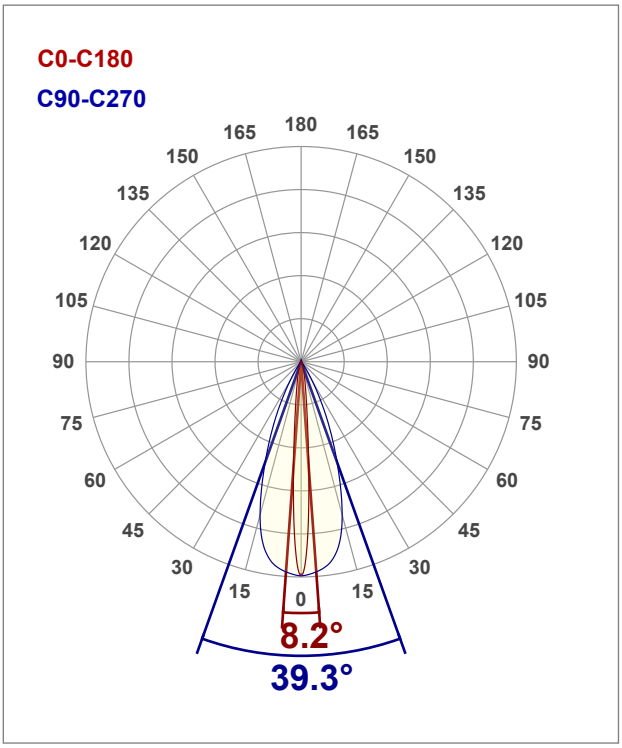
## Luminous Intensity diagram

Unit: 0-100% of peak intensity




## Main Values

| | |
|---|---|
| Output (total Lumen) | 1009 lm |
| Lumen Up% / Down% | 0% / 100% |
| Peak Intensity | 7452 cd |
| Beam Angle (50%-FWHM) | 16.2° |

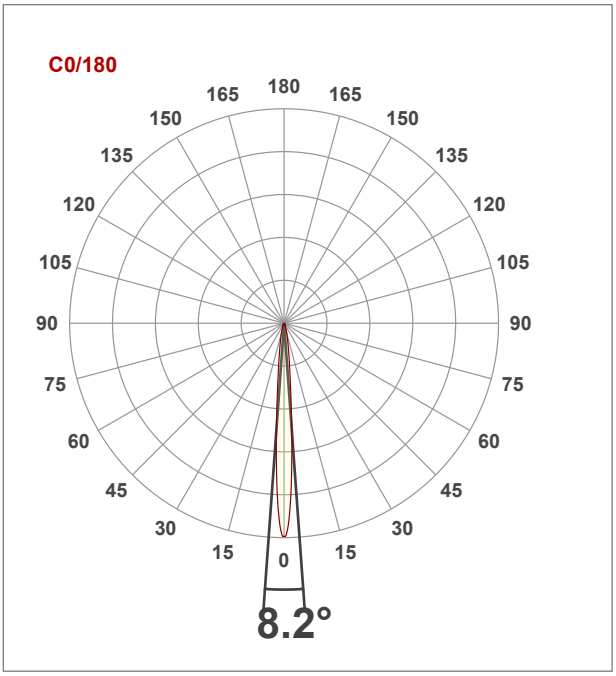
## EU Ecodesign parameters

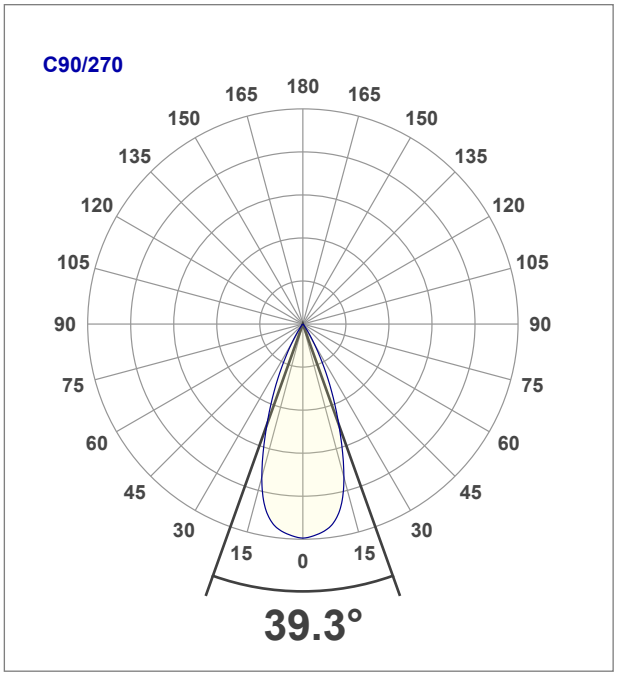
| | |
|---|---|
| Directionality (DLS or NDLS) | DLS |
| Ecodesign Useful Luminous Flux | 1009 lm |
| Ecodesign Energy Class | G |

## Intensity Ratio

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

## Angular Distribution

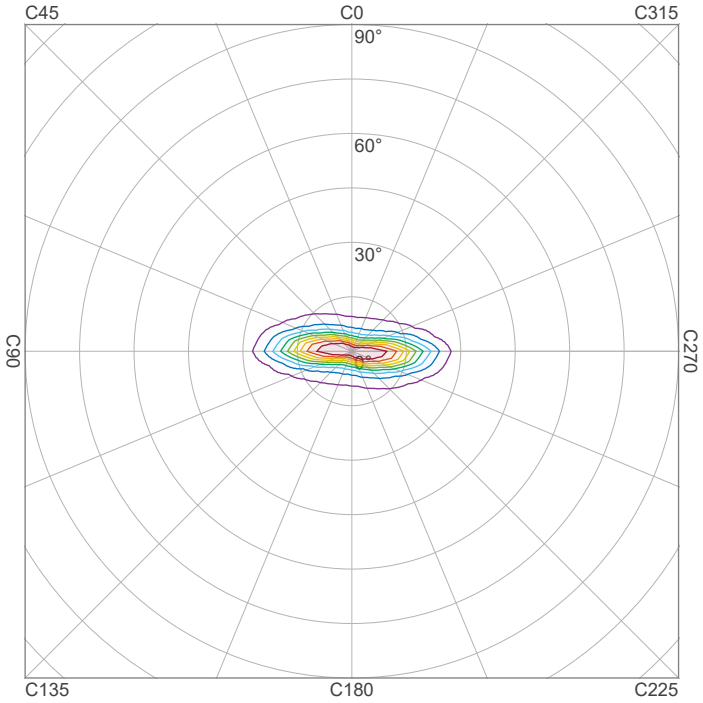


# Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-4010-INF-XXXXX-X (B)

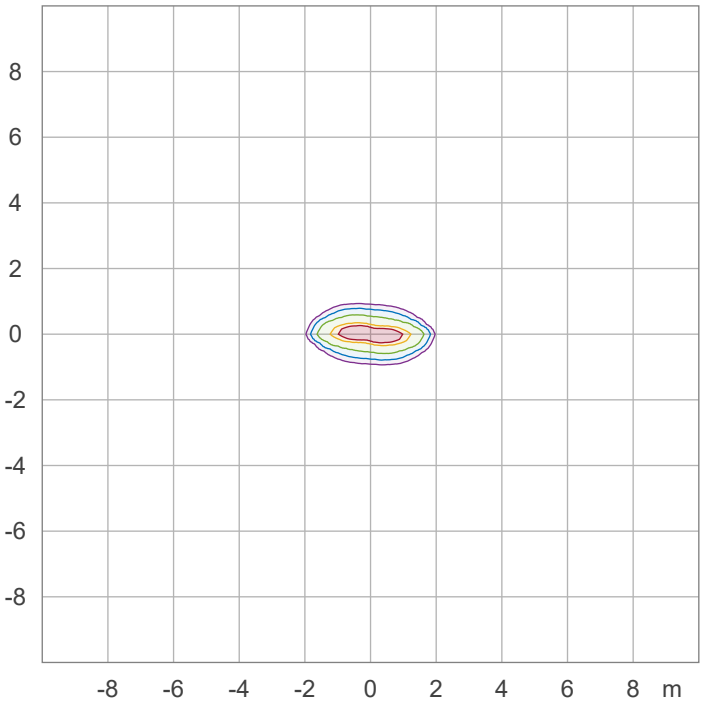
## Iso-intensity Diagram (Iso-candela)




| | | |
|---|---|---|
| 90 % | 6602.5 cd |
| 80 % | 5868.9 cd |
| 70 % | 5135.3 cd |
| 60 % | 4401.7 cd |
| 50 % | 3668.1 cd |
| 40 % | 2934.5 cd |
| 30 % | 2200.8 cd |
| 20 % | 1467.2 cd |
| 10 % | 733.6 cd |

Peak intensity: 7336.2 cd
Number of c-planes: 36

## Iso-illuminance Diagram (Iso-lux)




| | |
|---|---|
| 50.0 % | 407 lx |
| 30.0 % | 244 lx |
| 10.0 % | 81.5 lx |
| 5.0 % | 40.7 lx |
| 3.0 % | 24.4 lx |

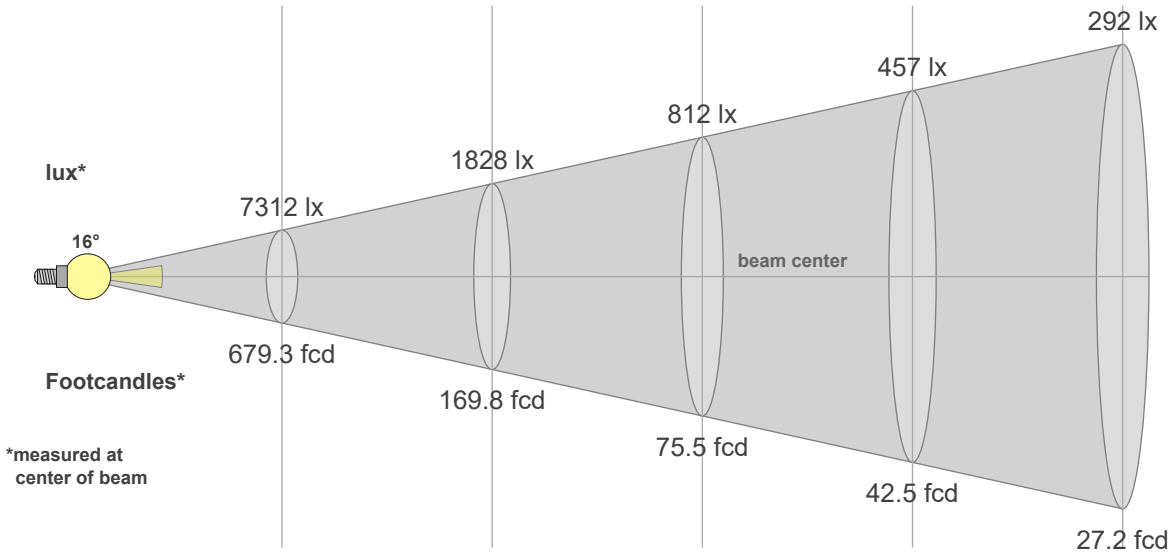
Peak illuminance: 815 lx
Mounting height: 3 m
Number of c-planes: 36

# Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-4010-INF-XXXXX-X (B)

## 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) | 0.3 m | 0.6 m | 0.9 m | 1.1 m | 1.4 m |
|---|---|---|---|---|---|
| Beam width (feet) | 0.9 ft | 1.9 ft | 2.8 ft | 3.7 ft | 4.7 ft |

# Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-4010-INF-XXXXX-X (B)

## 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 |
| 7312 | 1828 | 812 | 457 | 292 | 203 | 149 | 114 | 90 | 73 | 60 | 51 | 43 | 37 | 32 | 29 | 25 | 23 | 20 | 18 | lux |
| 679.3 | 169.8 | 75.5 | 42.5 | 27.2 | 18.9 | 13.9 | 10.6 | 8.4 | 6.8 | 5.6 | 4.7 | 4 | 3.5 | 3 | 2.7 | 2.4 | 2.1 | 1.9 | 1.7 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7312 | 7030 | 6158 | 4972 | 3771 | 2786 | 2069 | 1580 | 1249 | 1005 | 825 | 687 | 582 | 492 | 416 | 354 | 301 | 249 | 211 | 176 | cd |
| 100% | 96% | 84% | 68% | 52% | 38% | 28% | 22% | 17% | 14% | 11% | 9% | 8% | 7% | 6% | 5% | 4% | 3% | 3% | 2% | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7312 | 7333 | 7308 | 7272 | 7234 | 7191 | 7134 | 7067 | 6985 | 6864 | 6722 | 6552 | 6330 | 6076 | 5781 | 5434 | 5069 | 4687 | 4296 | 3914 | cd |
| 100% | 100% | 100% | 99% | 99% | 98% | 98% | 97% | 96% | 94% | 92% | 90% | 87% | 83% | 79% | 74% | 69% | 64% | 59% | 54% | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7312 | 7030 | 6158 | 4972 | 3771 | 2786 | 2069 | 1580 | 1249 | 1005 | 825 | 687 | 582 | 492 | 416 | 354 | 301 | 249 | 211 | 176 | cd |
| 100% | 96% | 84% | 68% | 52% | 38% | 28% | 22% | 17% | 14% | 11% | 9% | 8% | 7% | 6% | 5% | 4% | 3% | 3% | 2% | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7312 | 7333 | 7308 | 7272 | 7234 | 7191 | 7134 | 7067 | 6985 | 6864 | 6722 | 6552 | 6330 | 6076 | 5781 | 5434 | 5069 | 4687 | 4296 | 3914 | cd |
| 100% | 100% | 100% | 99% | 99% | 98% | 98% | 97% | 96% | 94% | 92% | 90% | 87% | 83% | 79% | 74% | 69% | 64% | 59% | 54% | of 0°val |

# Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-4010-INF-XXXXX-X (B)

## Power details

| Input power | |
|---|---|
| Frequency of input power | 0.0 Hz |
| Power feed to light source | 128.2 W |
| RMS Input voltage feed V,RMS | 381.6 V |
| RMS Input current feed I,RMS | 0.34 A |
| Volt-Amp or apparent power = V,RMS*I,RMS | 128.2 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**

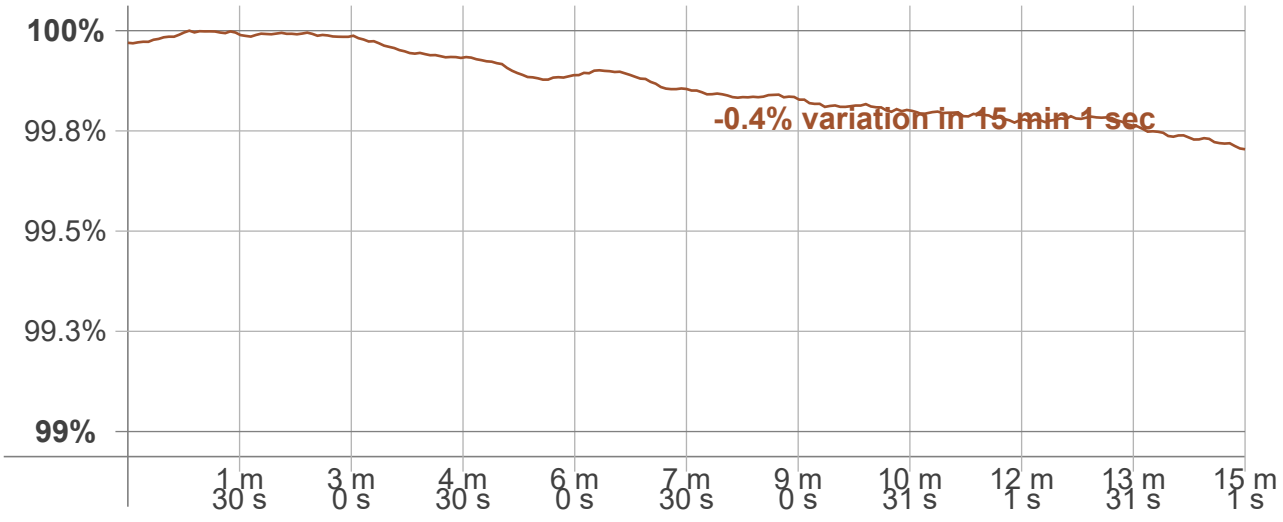
### Efficiency

| | |
|---|---|
| Radiated power efficiency | 18.59 |
| Lumen efficiency | 7.872 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 1 sec | Output start | 1012 lm |
| Warmup variation | -0.3703% | Output change | -2.3897 lm |
| | | Output end | 1009 lm |

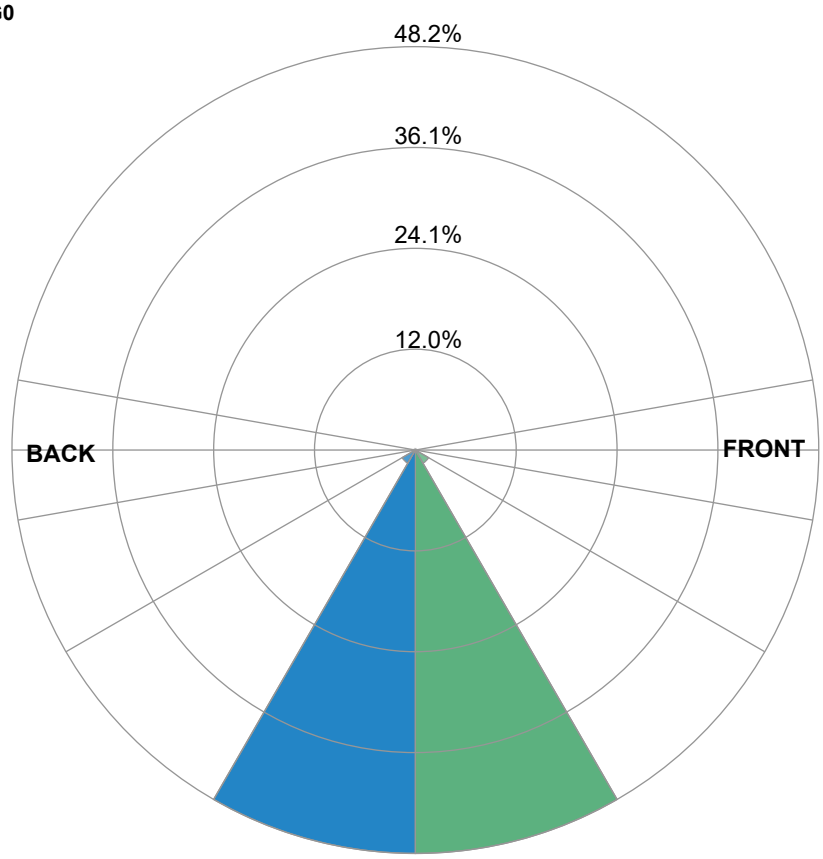
## Stabilization Curve



# Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-4010-INF-XXXXX-X (B)

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

| | | | |
|---|---|---|---|
| **Forward Light** | | | |
| Low (0-30°) | 486 | lm | 48.2% |
| Medium (30-60°) | 18.3 | lm | 1.82% |
| High (60-80°) | 0 | lm | 0% |
| Very High (80-90°) | 0 | lm | 0% |
| **Back Light** | | | |
| Low (0-30°) | 486 | lm | 48.2% |
| Medium (30-60°) | 18.3 | lm | 1.82% |
| 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** | 1009 | lm | 100% |

**BUG RATING B1 U0 G0**