# Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-90-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.26-8912-VO |
| Measurement date | 2026-05-26 |

## Measurement Conditions

| | |
|---|---|
| Tested c-planes | 36 planes – 10.00° |
| Tested gamma resolution | 5.00° |
| Input Power | 128.9 W |

## Electrical Data

| | |
|---|---|
| Input Power | 128.9 W |
| Input Voltage | 381.4 V DC |
| Input Current | 0.34 A |
| Power Factor | 1.00 |

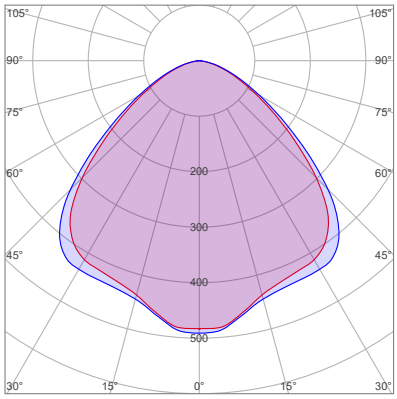
## Tested Light Source

| | |
|---|---|
| Product family | FL200-G2 |
| Luminaire configuration | FL200-G2-XXX-RGBW3083-OM-90-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

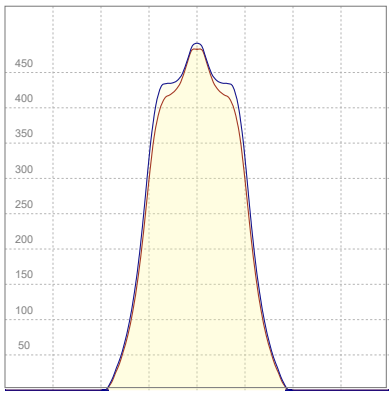
| | |
|---|---|
| Output – Total Lumen | 1146 - 0% / 100% |
| Efficiency | 8.887 lm/W |
| Peak Intensity | 494.4 |
| Correlated Color Temperature, CCT | n/a |
| Color Rendering Index | n/a |
| Beam Angle (FWHM) \| C0/180 | 97.8° |
| Beam Angle (FWHM) \| C90/270 | 100.8° |
| Field Angle (10%) \| C0/180 | 140.9°Unit: 0-100% of peak intensity |
| Optical Power | 27026 mW |
| Peak Wavelength | 454 nm |
| Dominant Wavelength | 458 nm |

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

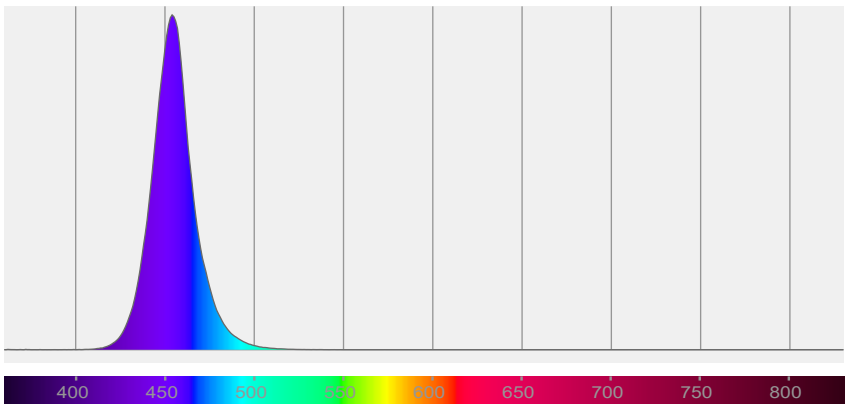



C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram




Spectral Distribution




Color Temperature

NaN K

# Photometric Test Report

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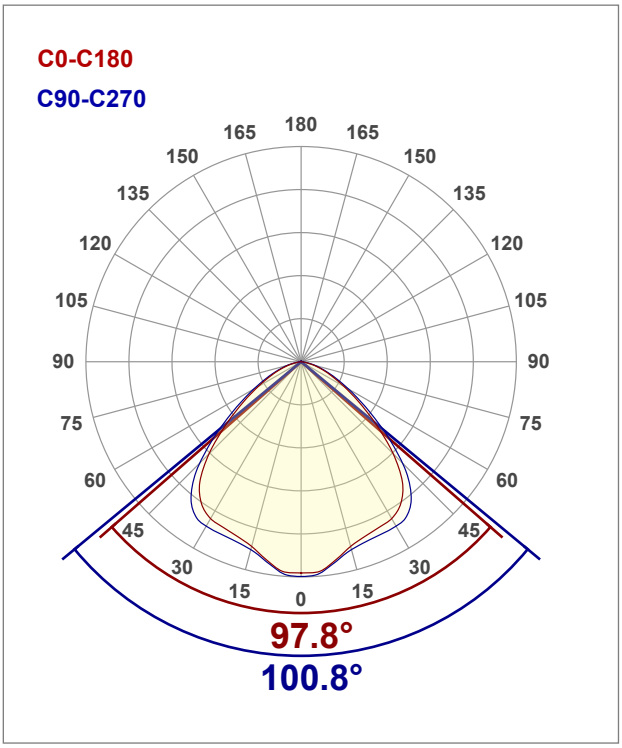
## Luminous Intensity diagram

Unit: 0-100% of peak intensity




## Main Values

| | |
|---|---|
| Output (total Lumen) | 1146 lm |
| Lumen Up% / Down% | 0% / 100% |
| Peak Intensity | 494.4 cd |
| Beam Angle (50%-FWHM) | 100.3° |

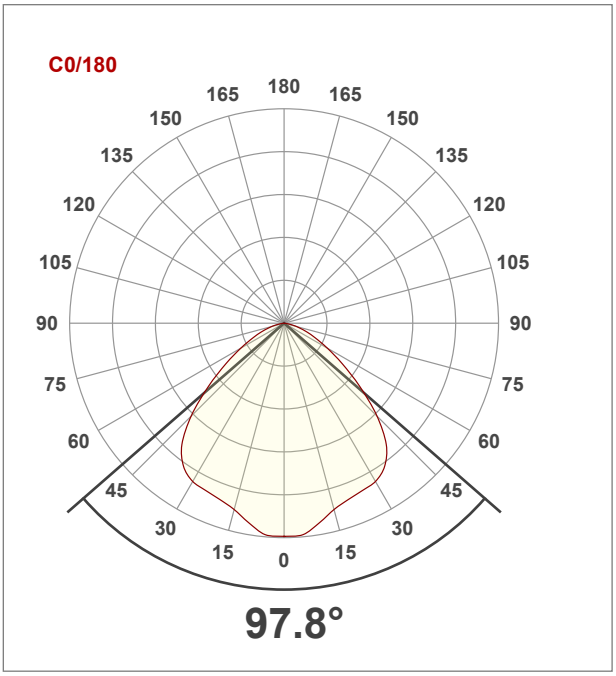
## EU Ecodesign parameters

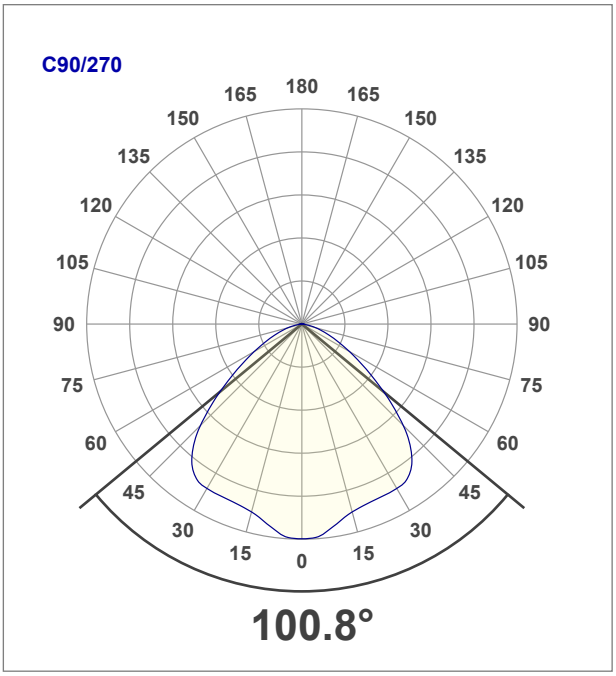
| | |
|---|---|
| Directionality (DLS or NDLS) | DLS |
| Ecodesign Useful Luminous Flux | 1025 lm |
| Ecodesign Energy Class | G |

## Intensity Ratio

| | |
|---|---|
| In 120° cone | 89.48% |
| In 90° cone | 65.57% |

## Angular Distribution

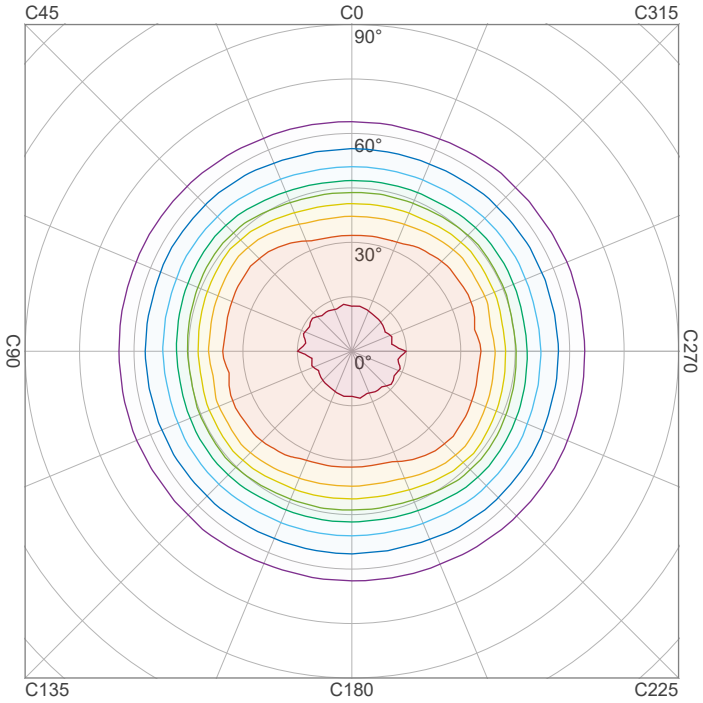


# Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-90-INF-XXXXX-X (B)

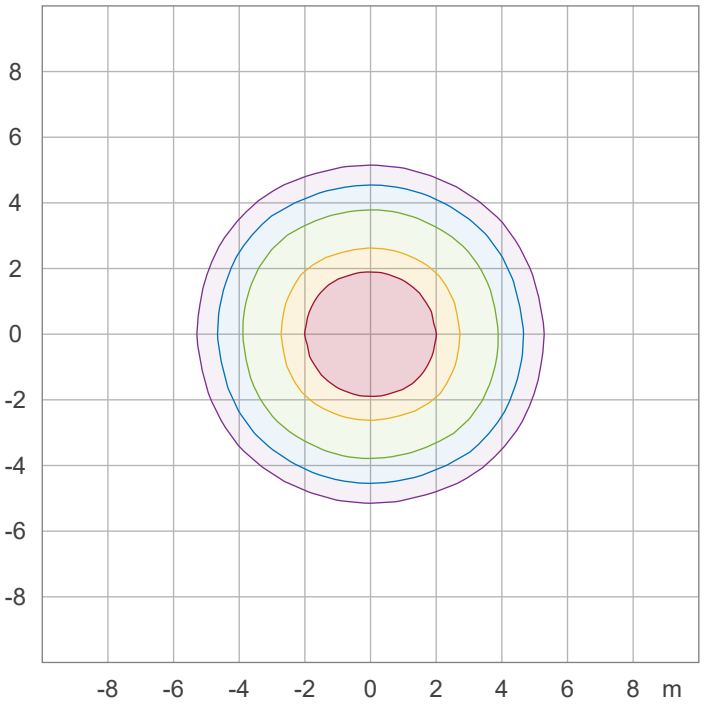
## Iso-intensity Diagram (Iso-candela)




| | | |
|---|---|---|
| 90 % | 442.6 cd |
| 80 % | 393.4 cd |
| 70 % | 344.2 cd |
| 60 % | 295.0 cd |
| 50 % | 245.9 cd |
| 40 % | 196.7 cd |
| 30 % | 147.5 cd |
| 20 % | 98.3 cd |
| 10 % | 49.2 cd |

Peak intensity: 491.7 cd
Number of c-planes: 36

## Iso-illuminance Diagram (Iso-lux)




| | |
|---|---|
| 50.0 % | 27.3 lx |
| 30.0 % | 16.4 lx |
| 10.0 % | 5.46 lx |
| 5.0 % | 2.73 lx |
| 3.0 % | 1.64 lx |

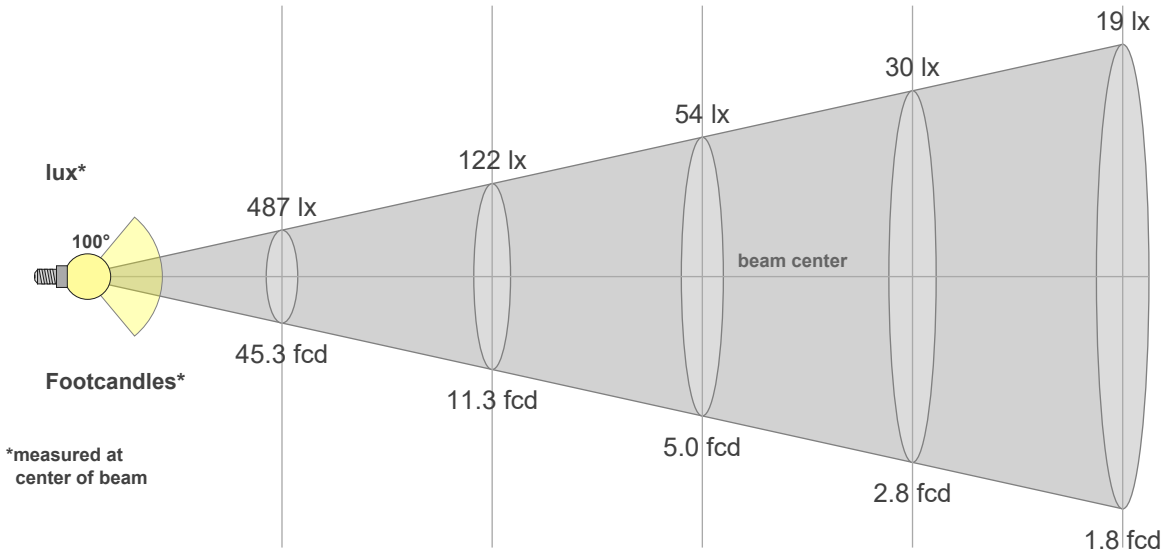
Peak illuminance: 54.6 lx
Mounting height: 3 m
Number of c-planes: 36

# Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-90-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) | 2.4 m | 4.8 m | 7.2 m | 9.6 m | 12 m |
|---|---|---|---|---|---|
| Beam width (feet) | 7.9 ft | 15.7 ft | 23.6 ft | 31.5 ft | 39.3 ft |

# Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-90-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 |
| 487 | 122 | 54 | 30 | 19 | 14 | 10 | 8 | 6 | 5 | 4 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | lux |
| 45.3 | 11.3 | 5 | 2.8 | 1.8 | 1.3 | 0.9 | 0.7 | 0.6 | 0.5 | 0.4 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | fc |

### Intensities in 0° c-plane

| 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | γ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 487 | 481 | 459 | 437 | 425 | 419 | 414 | 397 | 360 | 298 | 225 | 162 | 113 | 77 | 50 | 29 | 11 | 1 | 0 | 0 | cd |
| 100% | 99% | 94% | 90% | 87% | 86% | 85% | 81% | 74% | 61% | 46% | 33% | 23% | 16% | 10% | 6% | 2% | 0% | 0% | 0% | of 0°val |

### Intensities in 90° c-plane

| 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | γ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 487 | 484 | 464 | 446 | 437 | 435 | 433 | 423 | 388 | 327 | 250 | 181 | 127 | 86 | 56 | 34 | 14 | 2 | 0 | 0 | cd |
| 100% | 99% | 95% | 91% | 90% | 89% | 89% | 87% | 80% | 67% | 51% | 37% | 26% | 18% | 11% | 7% | 3% | 0% | 0% | 0% | of 0°val |

### Intensities in 180° c-plane

| 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | γ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 487 | 481 | 459 | 437 | 425 | 419 | 414 | 397 | 360 | 298 | 225 | 162 | 113 | 77 | 50 | 29 | 11 | 1 | 0 | 0 | cd |
| 100% | 99% | 94% | 90% | 87% | 86% | 85% | 81% | 74% | 61% | 46% | 33% | 23% | 16% | 10% | 6% | 2% | 0% | 0% | 0% | of 0°val |

### Intensities in 270° c-plane

| 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | γ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 487 | 484 | 464 | 446 | 437 | 435 | 433 | 423 | 388 | 327 | 250 | 181 | 127 | 86 | 56 | 34 | 14 | 2 | 0 | 0 | cd |
| 100% | 99% | 95% | 91% | 90% | 89% | 89% | 87% | 80% | 67% | 51% | 37% | 26% | 18% | 11% | 7% | 3% | 0% | 0% | 0% | of 0°val |

# Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-90-INF-XXXXX-X (B)

## 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 | 381.4 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**

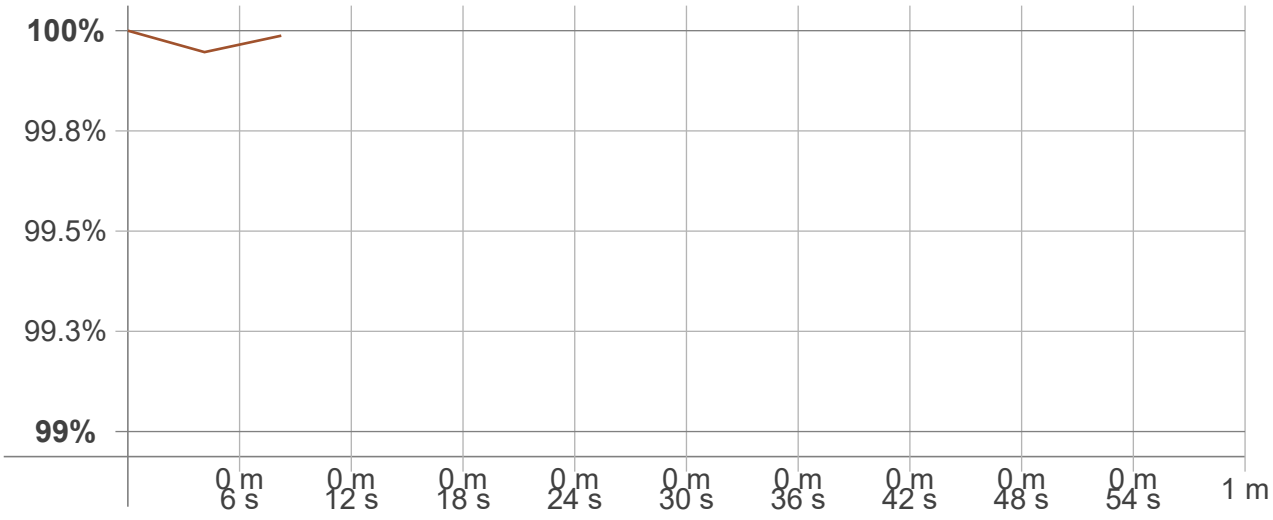
### Efficiency

| | |
|---|---|
| Radiated power efficiency | 20.96 |
| Lumen efficiency | 8.887 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 | 1146 lm |
| Warmup variation | -0.0535% | Output change | -0.1427 lm |
| | | Output end | 1146 lm |

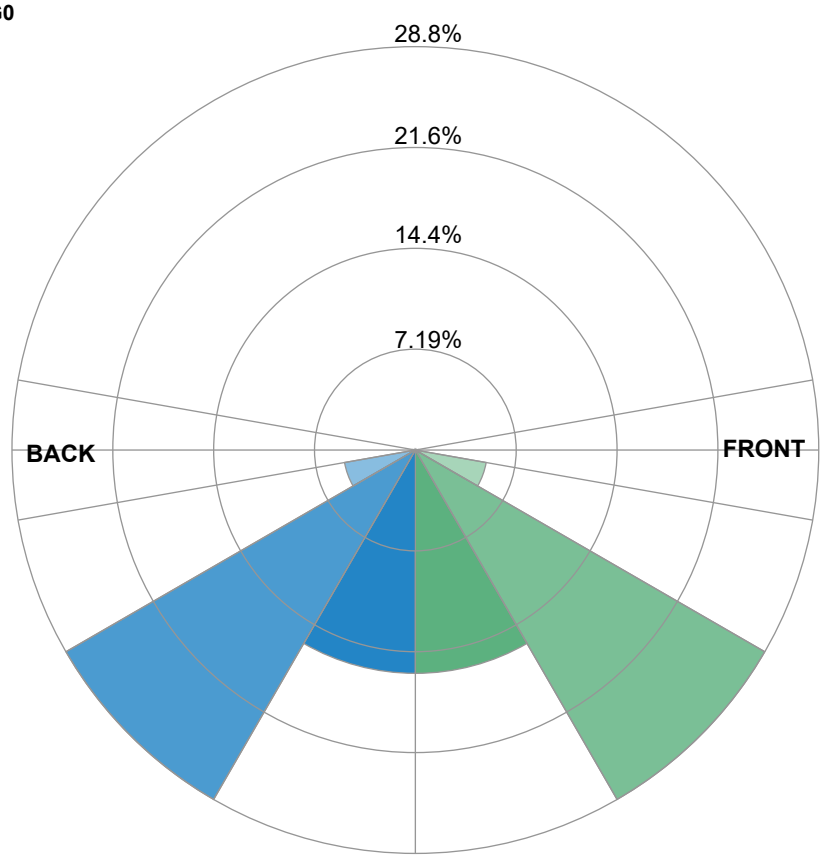
## Stabilization Curve



# Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-90-INF-XXXXX-X (B)

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

| | | | |
|---|---|---|---|
| **Forward Light** | | | |
| Low (0-30°) | 182 | lm | 15.9% |
| Medium (30-60°) | 330 | lm | 28.8% |
| High (60-80°) | 58.8 | lm | 5.13% |
| Very High (80-90°) | 1.91 | lm | 0.167% |
| **Back Light** | | | |
| Low (0-30°) | 182 | lm | 15.9% |
| Medium (30-60°) | 330 | lm | 28.8% |
| High (60-80°) | 58.8 | lm | 5.13% |
| Very High (80-90°) | 1.91 | lm | 0.167% |
| **Uplight** | | | |
| Low (90-100°) | 0 | lm | 0% |
| High (100-180°) | 0 | lm | 0% |
| Total | | | |
| **Sum** | 1146 | lm | 100% |

**BUG RATING B1 U0 G0**