# Photometric Test Report

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

## 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.26-8885-VO |
| Measurement date | 2026-05-26 |

## Measurement Conditions

| | |
|---|---|
| Tested c-planes | 36 planes – 10.00° |
| Tested gamma resolution | 5.00° |
| Input Power | 127.8 W |

## Electrical Data

| | |
|---|---|
| Input Power | 127.8 W |
| Input Voltage | 381.4 V DC |
| Input Current | 0.34 A |
| Power Factor | 1.00 |

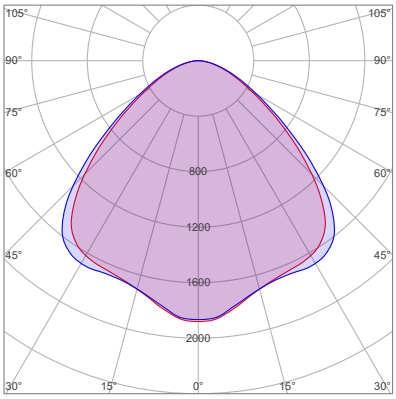
## Tested Light Source

| | |
|---|---|
| Product family | FL200-G2 |
| Luminaire configuration | FL200-G2-XXX-RGBW3083-OM-90-INF-XXXXX-X (G) |
| Manufacturer | GVA Lighting, Inc. |
| Size (width x length x height) | 106 mm 0 mm x 430 mm |

## Main Light Measurement Results

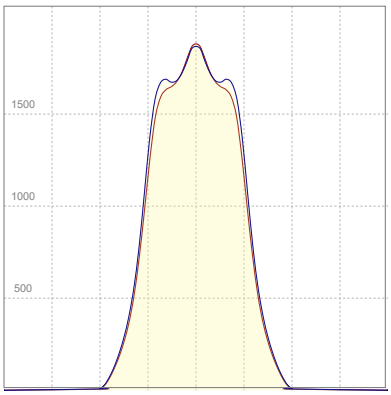
| | |
|---|---|
| Output – Total Lumen | 4537 - 0.4995% / 99.5% |
| Efficiency | 35.51 lm/W |
| Peak Intensity | 1896 |
| Correlated Color Temperature, CCT | n/a |
| Color Rendering Index | n/a |
| Beam Angle (FWHM) \| C0/180 | 98.1° |
| Beam Angle (FWHM) \| C90/270 | 101.5° |
| Field Angle (10%) \| C0/180 | 143.6°Unit: 0-100% of peak intensity |
| Optical Power | 9495 mW |
| Peak Wavelength | 521 nm |
| Dominant Wavelength | 527 nm |

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

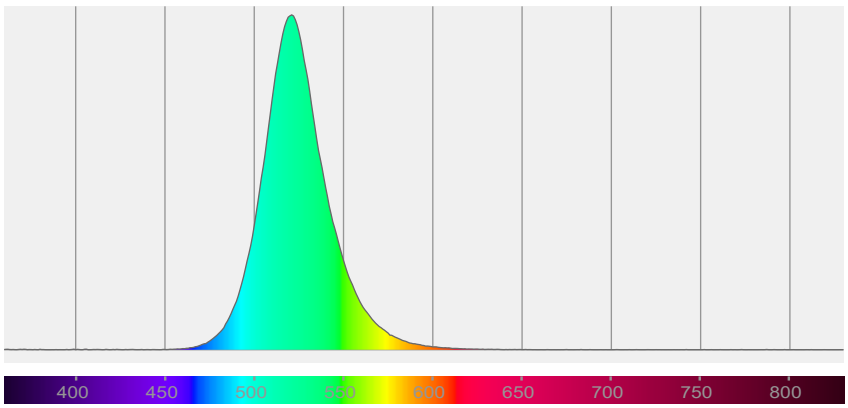



C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram




Spectral Distribution




Color Temperature

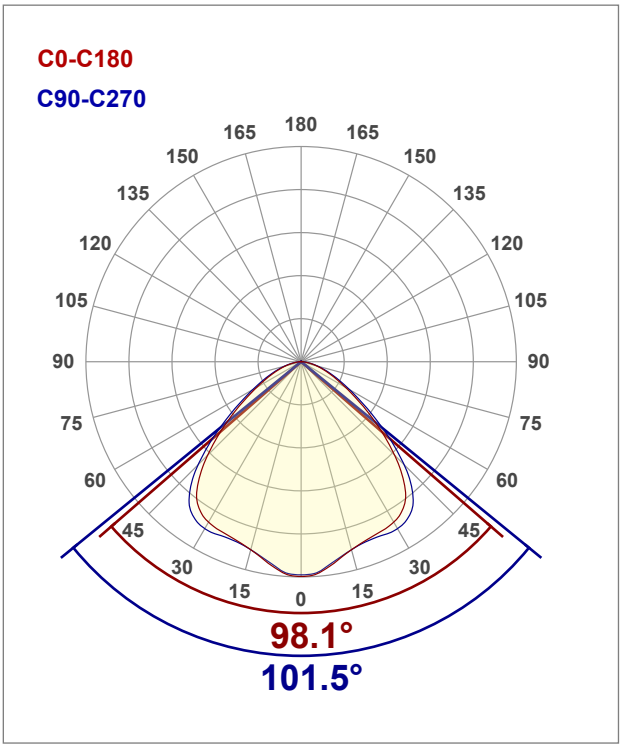
NaN K

# Photometric Test Report

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

## Luminous Intensity diagram

Unit: 0-100% of peak intensity




## Main Values

| | |
|---|---|
| Output (total Lumen) | 4537 lm |
| Lumen Up% / Down% | 0.4995% / 99.5% |
| Peak Intensity | 1896 cd |
| Beam Angle (50%-FWHM) | 100.7° |

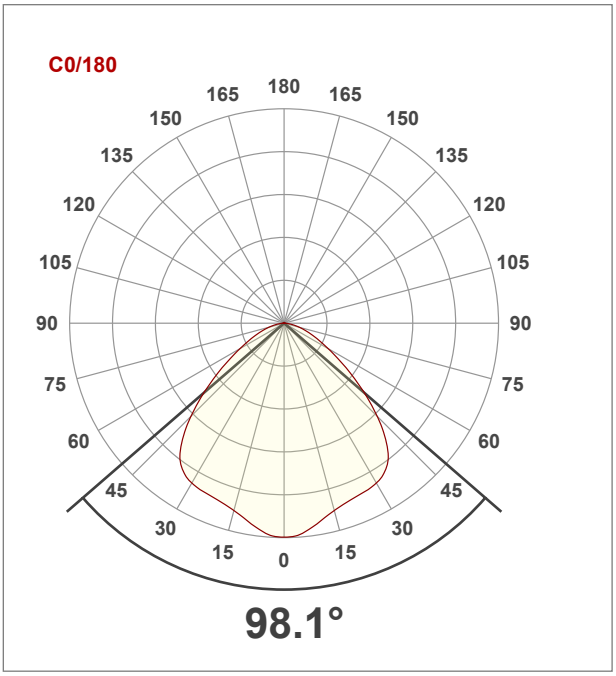
## EU Ecodesign parameters

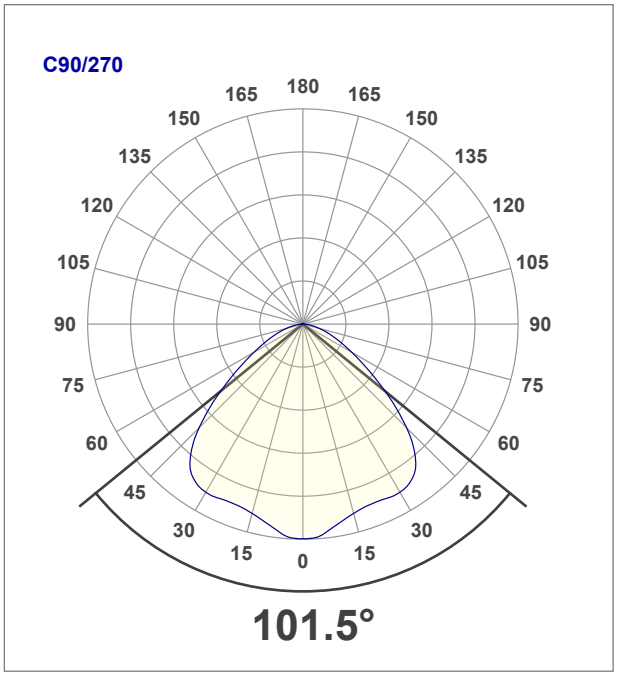
| | |
|---|---|
| Directionality (DLS or NDLS) | DLS |
| Ecodesign Useful Luminous Flux | 3982 lm |
| Ecodesign Energy Class | G |

## Intensity Ratio

| | |
|---|---|
| In 120° cone | 87.77% |
| In 90° cone | 64.34% |

## Angular Distribution

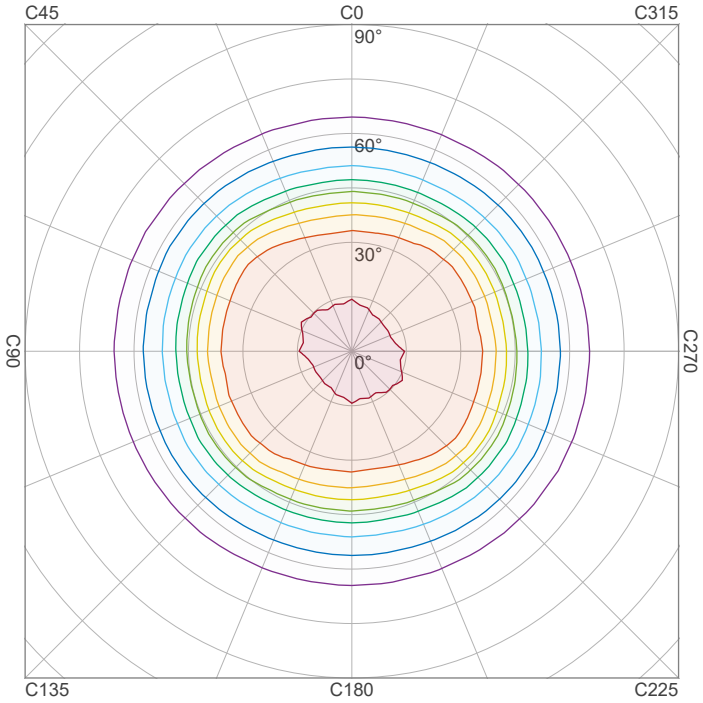


# Photometric Test Report

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

## Iso-intensity Diagram (Iso-candela)

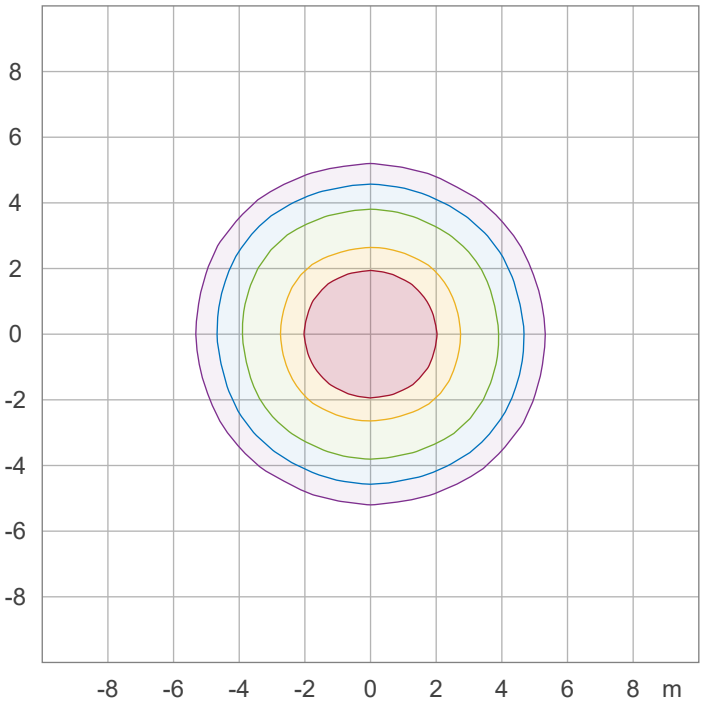



| | | |
|---|---|---|
| 90 % | 1698.2 cd |
| 80 % | 1509.5 cd |
| 70 % | 1320.8 cd |
| 60 % | 1132.1 cd |
| 50 % | 943.5 cd |
| 40 % | 754.8 cd |
| 30 % | 566.1 cd |
| 20 % | 377.4 cd |
| 10 % | 188.7 cd |

Peak intensity: 1886.9 cd

Number of c-planes: 36

## Iso-illuminance Diagram (Iso-lux)




| | |
|---|---|
| 50.0 % | 105 lx |
| 30.0 % | 62.9 lx |
| 10.0 % | 21 lx |
| 5.0 % | 10.5 lx |
| 3.0 % | 6.29 lx |

Peak illuminance: 210 lx

Mounting height: 3 m

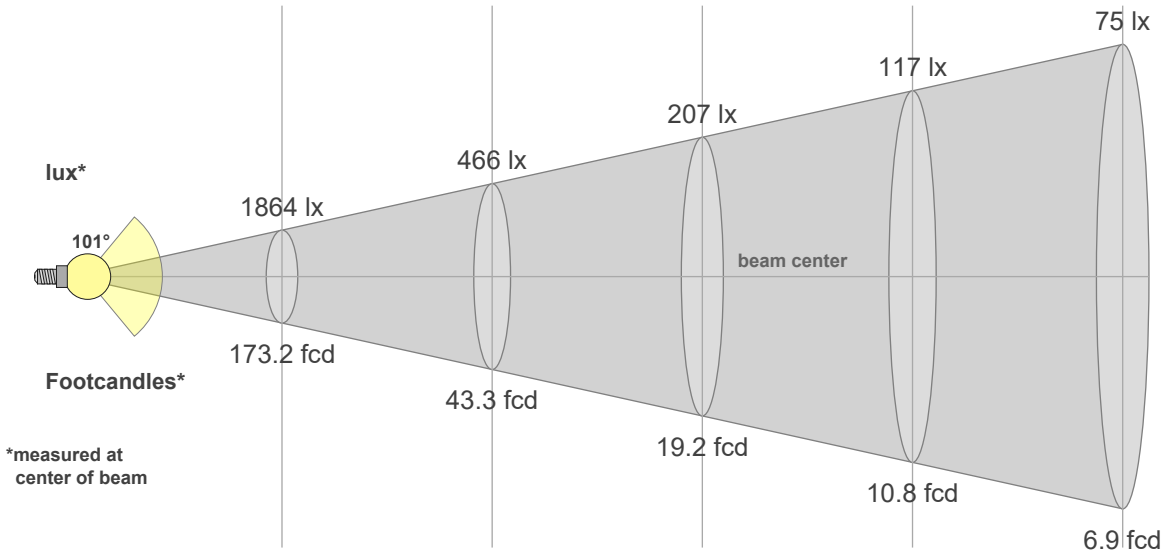
Number of c-planes: 36

# Photometric Test Report

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

## 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 | 9.7 m | 12.1 m |
|---|---|---|---|---|---|
| Beam width (feet) | 7.9 ft | 15.8 ft | 23.7 ft | 31.7 ft | 39.6 ft |

# Photometric Test Report

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

## 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 |
| 1864 | 466 | 207 | 117 | 75 | 52 | 38 | 29 | 23 | 19 | 15 | 13 | 11 | 10 | 8 | 7 | 6 | 6 | 5 | 5 | lux |
| 173.2 | 43.3 | 19.2 | 10.8 | 6.9 | 4.8 | 3.5 | 2.7 | 2.1 | 1.7 | 1.4 | 1.2 | 1 | 0.9 | 0.8 | 0.7 | 0.6 | 0.5 | 0.5 | 0.4 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1864 | 1847 | 1776 | 1708 | 1665 | 1643 | 1617 | 1551 | 1399 | 1156 | 887 | 644 | 454 | 318 | 217 | 140 | 77 | 31 | 6 | 5 | cd |
| 100% | 99% | 95% | 92% | 89% | 88% | 87% | 83% | 75% | 62% | 48% | 35% | 24% | 17% | 12% | 7% | 4% | 2% | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1864 | 1836 | 1765 | 1707 | 1678 | 1678 | 1683 | 1640 | 1511 | 1272 | 974 | 702 | 497 | 349 | 239 | 152 | 85 | 34 | 7 | 6 | cd |
| 100% | 98% | 95% | 92% | 90% | 90% | 90% | 88% | 81% | 68% | 52% | 38% | 27% | 19% | 13% | 8% | 5% | 2% | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1864 | 1847 | 1776 | 1708 | 1665 | 1643 | 1617 | 1551 | 1399 | 1156 | 887 | 644 | 454 | 318 | 217 | 140 | 77 | 31 | 6 | 5 | cd |
| 100% | 99% | 95% | 92% | 89% | 88% | 87% | 83% | 75% | 62% | 48% | 35% | 24% | 17% | 12% | 7% | 4% | 2% | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1864 | 1836 | 1765 | 1707 | 1678 | 1678 | 1683 | 1640 | 1511 | 1272 | 974 | 702 | 497 | 349 | 239 | 152 | 85 | 34 | 7 | 6 | cd |
| 100% | 98% | 95% | 92% | 90% | 90% | 90% | 88% | 81% | 68% | 52% | 38% | 27% | 19% | 13% | 8% | 5% | 2% | 0% | 0% | of 0°val |

# Photometric Test Report

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

## Power details

| Input power | |
|---|---|
| Frequency of input power | 0.0 Hz |
| Power feed to light source | 127.8 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 | 127.8 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**

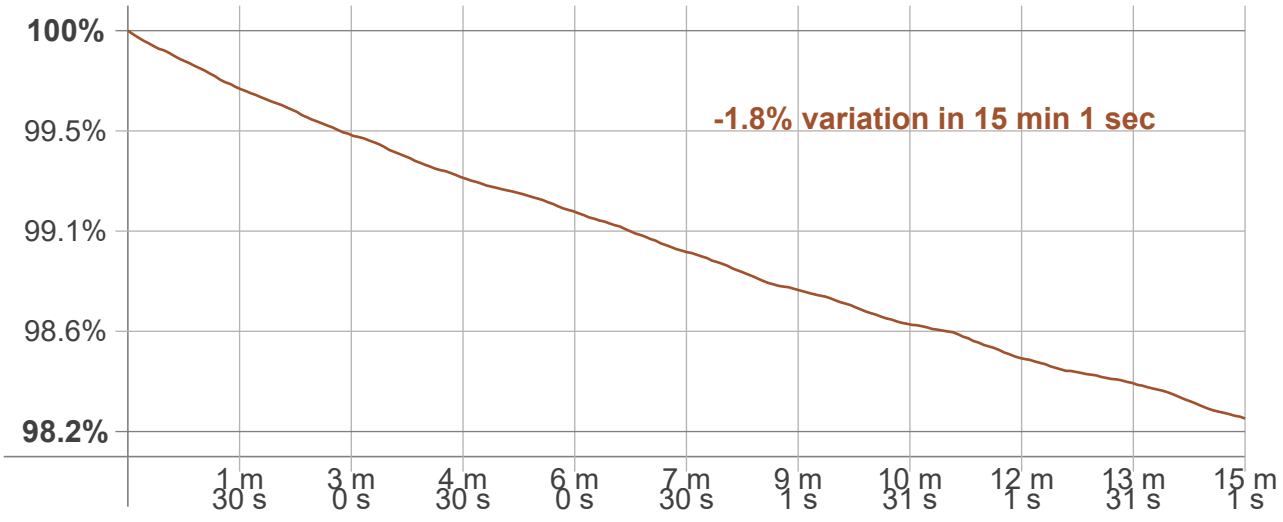
### Efficiency

| | |
|---|---|
| Radiated power efficiency | 7.431 |
| Lumen efficiency | 35.51 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 | 4617 lm |
| Warmup variation | -1.804% | Output change | -80.42 lm |
| | | Output end | 4537 lm |

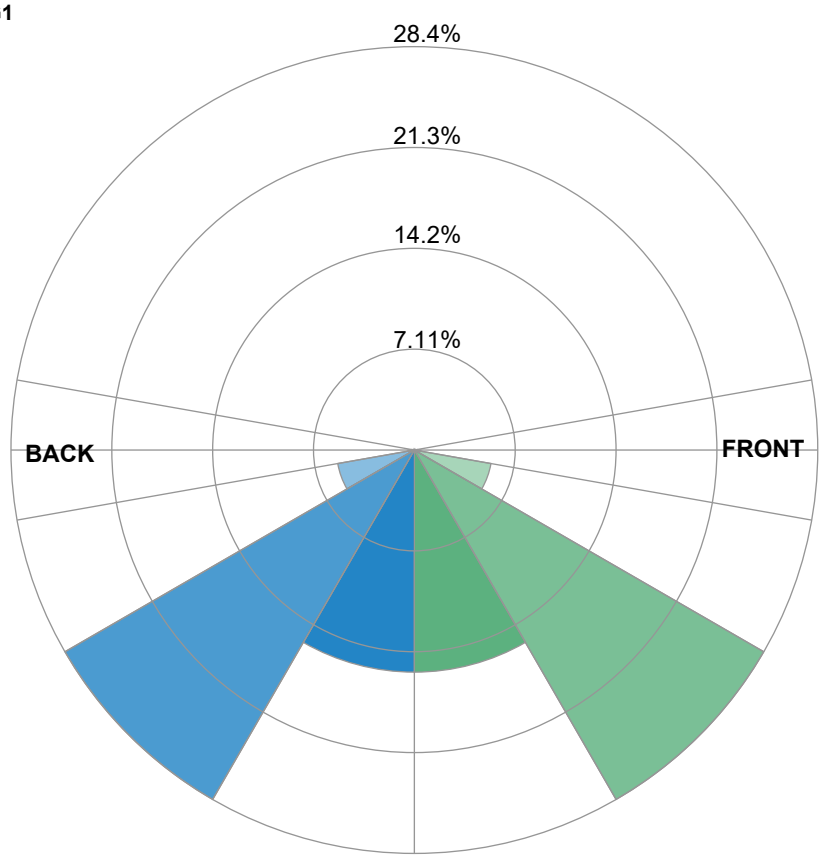
## Stabilization Curve



# Photometric Test Report

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

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

| | | | |
|---|---|---|---|
| **Forward Light** | | | |
| Low (0-30°) | 710 | lm | 15.6% |
| Medium (30-60°) | 1290 | lm | 28.4% |
| High (60-80°) | 249 | lm | 5.48% |
| Very High (80-90°) | 20.2 | lm | 0.446% |
| **Back Light** | | | |
| Low (0-30°) | 710 | lm | 15.6% |
| Medium (30-60°) | 1290 | lm | 28.4% |
| High (60-80°) | 249 | lm | 5.48% |
| Very High (80-90°) | 20.2 | lm | 0.446% |
| **Uplight** | | | |
| Low (90-100°) | 0 | lm | 0% |
| High (100-180°) | 0 | lm | 0% |
| Total | | | |
| **Sum** | 4537 | lm | 100% |

**BUG RATING B2 U0 G1**