# Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-20L-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.Jun.03-9301-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 |

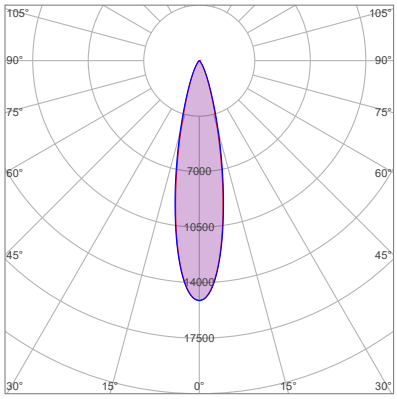
## Tested Light Source

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

## Main Light Measurement Results

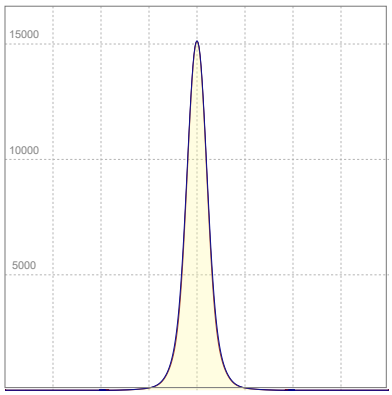
| | |
|---|---|
| Output – Total Lumen | 3208 - 0% / 100% |
| Efficiency | 24.88 lm/W |
| Peak Intensity | 15125 |
| Correlated Color Temperature, CCT | n/a |
| Color Rendering Index | n/a |
| Beam Angle (FWHM) \| C0/180 | 22.2° |
| Beam Angle (FWHM) \| C90/270 | 22.7° |
| Field Angle (10%) \| C0/180 | 44.5°Unit: 0-100% of peak intensity |
| Optical Power | 6646 mW |
| Peak Wavelength | 521 nm |
| Dominant Wavelength | 527 nm |

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

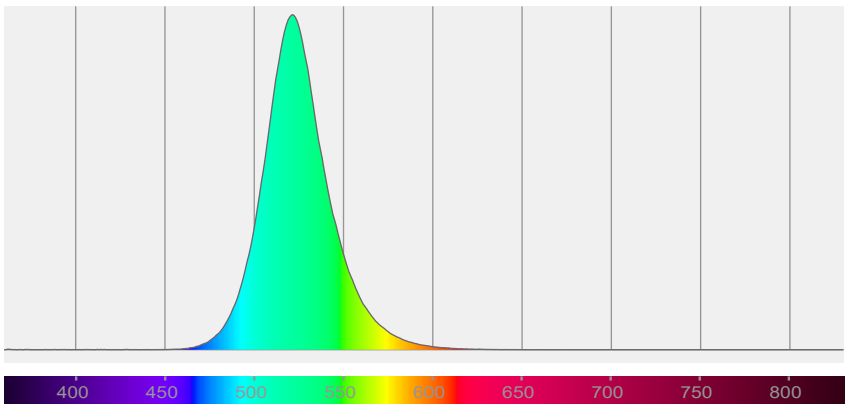



C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram




Spectral Distribution




Color Temperature

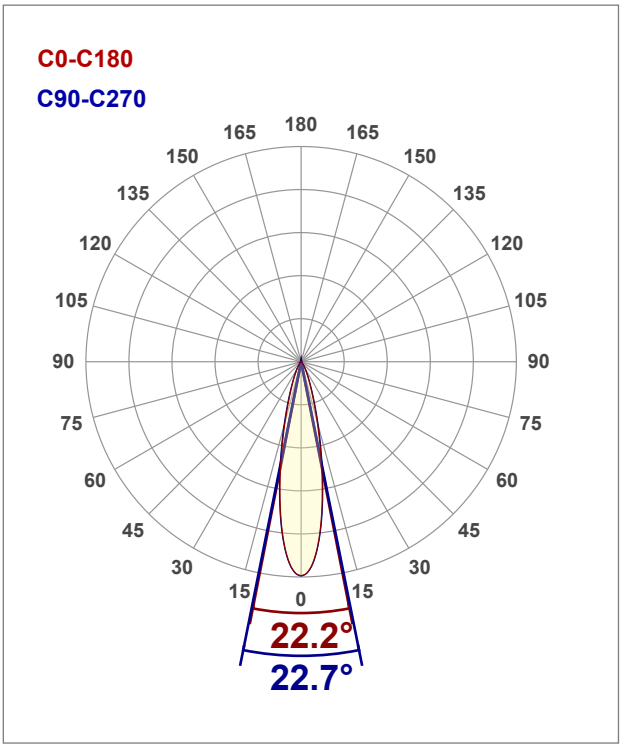
NaN K

# Photometric Test Report

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

## Luminous Intensity diagram

Unit: 0-100% of peak intensity




## Main Values

| | |
|---|---|
| Output (total Lumen) | 3208 lm |
| Lumen Up% / Down% | 0% / 100% |
| Peak Intensity | 15125 cd |
| Beam Angle (50%-FWHM) | 22.3° |

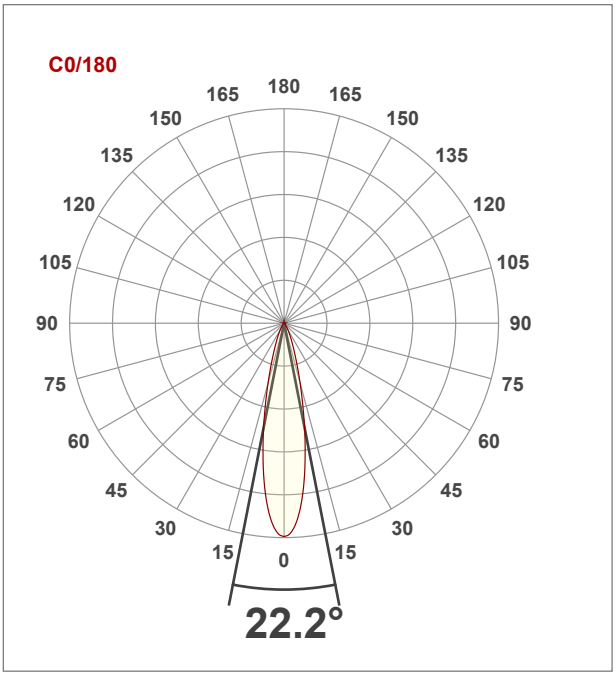
## EU Ecodesign parameters

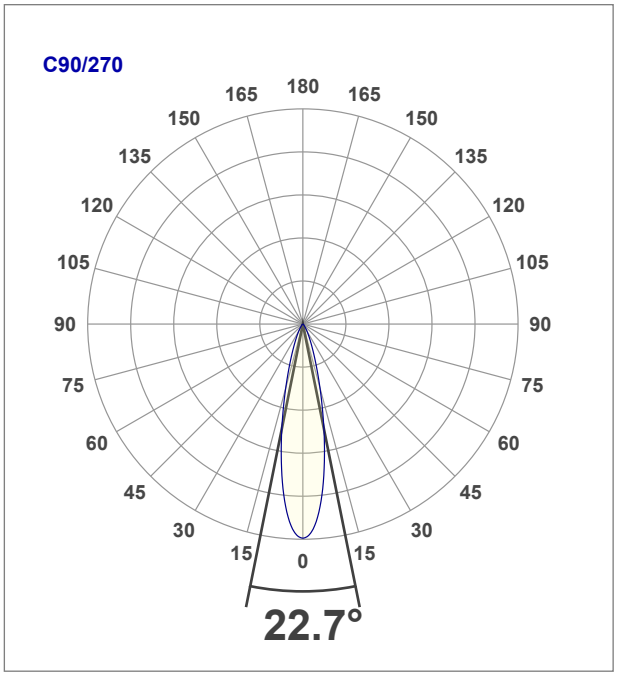
| | |
|---|---|
| Directionality (DLS or NDLS) | DLS |
| Ecodesign Useful Luminous Flux | 3117 lm |
| Ecodesign Energy Class | G |

## Intensity Ratio

| | |
|---|---|
| In 120° cone | 99.35% |
| In 90° cone | 97.16% |

## Angular Distribution

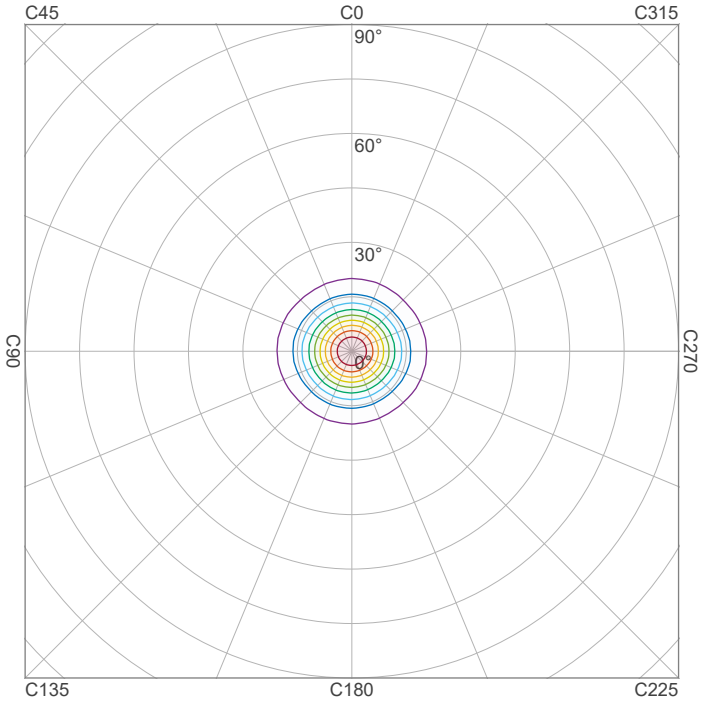


# Photometric Test Report

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

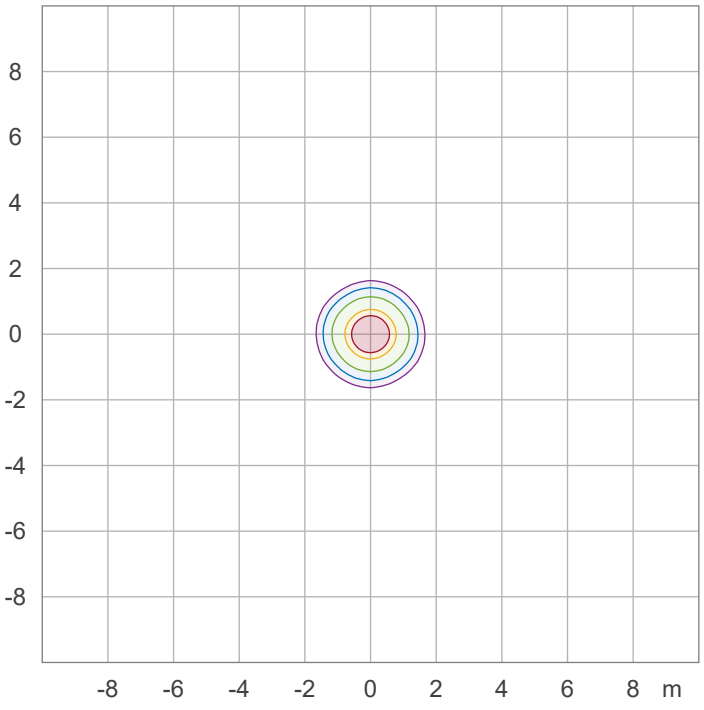
## Iso-intensity Diagram (Iso-candela)




| | | |
|---|---|---|
| 90 % | 13596.1 cd |
| 80 % | 12085.4 cd |
| 70 % | 10574.7 cd |
| 60 % | 9064.0 cd |
| 50 % | 7553.4 cd |
| 40 % | 6042.7 cd |
| 30 % | 4532.0 cd |
| 20 % | 3021.3 cd |
| 10 % | 1510.7 cd |

Peak intensity: 15106.7 cd
Number of c-planes: 36

## Iso-illuminance Diagram (Iso-lux)




| | |
|---|---|
| 50.0 % | 839 lx |
| 30.0 % | 504 lx |
| 10.0 % | 168 lx |
| 5.0 % | 83.9 lx |
| 3.0 % | 50.4 lx |

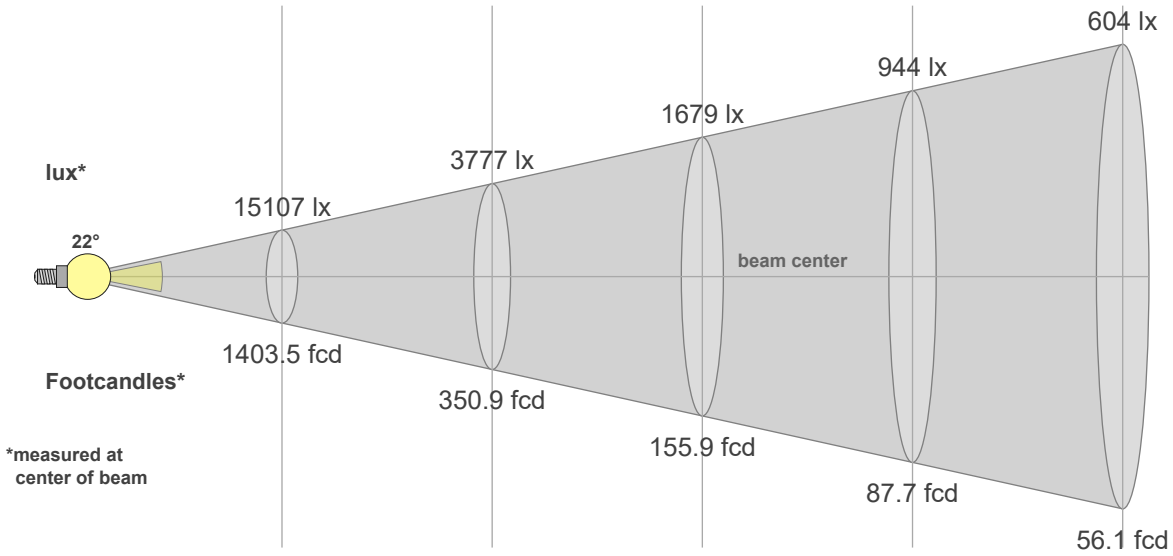
Peak illuminance: 1679 lx
Mounting height: 3 m
Number of c-planes: 36

# Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-20L-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) | 0.4 m | 0.8 m | 1.2 m | 1.6 m | 2 m |
|---|---|---|---|---|---|
| Beam width (feet) | 1.3 ft | 2.6 ft | 3.9 ft | 5.2 ft | 6.5 ft |

# Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-20L-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 |
| 15107 | 3777 | 1679 | 944 | 604 | 420 | 308 | 236 | 187 | 151 | 125 | 105 | 89 | 77 | 67 | 59 | 52 | 47 | 42 | 38 | lux |
| 1403.5 | 350.9 | 155.9 | 87.7 | 56.1 | 39 | 28.6 | 21.9 | 17.3 | 14 | 11.6 | 9.7 | 8.3 | 7.2 | 6.2 | 5.5 | 4.9 | 4.3 | 3.9 | 3.5 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15.1k | 14.8k | 13.8k | 12.4k | 10.5k | 8.6k | 6.7k | 5.1k | 3.8k | 2.8k | 2.1k | 1.6k | 1.2k | 0.9k | 0.7k | 0.6k | 0.4k | 0.3k | 0.3k | 0.2k | cd |
| 100% | 98% | 92% | 82% | 70% | 57% | 44% | 34% | 25% | 18% | 14% | 10% | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15.1k | 14.8k | 13.9k | 12.5k | 10.7k | 8.8k | 7.0k | 5.4k | 4.1k | 3.0k | 2.3k | 1.7k | 1.3k | 1.0k | 0.8k | 0.6k | 0.5k | 0.3k | 0.3k | 0.2k | cd |
| 100% | 98% | 92% | 82% | 71% | 58% | 46% | 36% | 27% | 20% | 15% | 11% | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15.1k | 14.8k | 13.8k | 12.4k | 10.5k | 8.6k | 6.7k | 5.1k | 3.8k | 2.8k | 2.1k | 1.6k | 1.2k | 0.9k | 0.7k | 0.6k | 0.4k | 0.3k | 0.3k | 0.2k | cd |
| 100% | 98% | 92% | 82% | 70% | 57% | 44% | 34% | 25% | 18% | 14% | 10% | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15.1k | 14.8k | 13.9k | 12.5k | 10.7k | 8.8k | 7.0k | 5.4k | 4.1k | 3.0k | 2.3k | 1.7k | 1.3k | 1.0k | 0.8k | 0.6k | 0.5k | 0.3k | 0.3k | 0.2k | cd |
| 100% | 98% | 92% | 82% | 71% | 58% | 46% | 36% | 27% | 20% | 15% | 11% | 9% | 7% | 5% | 4% | 3% | 2% | 2% | 1% | of 0°val |

# Photometric Test Report

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

## 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**

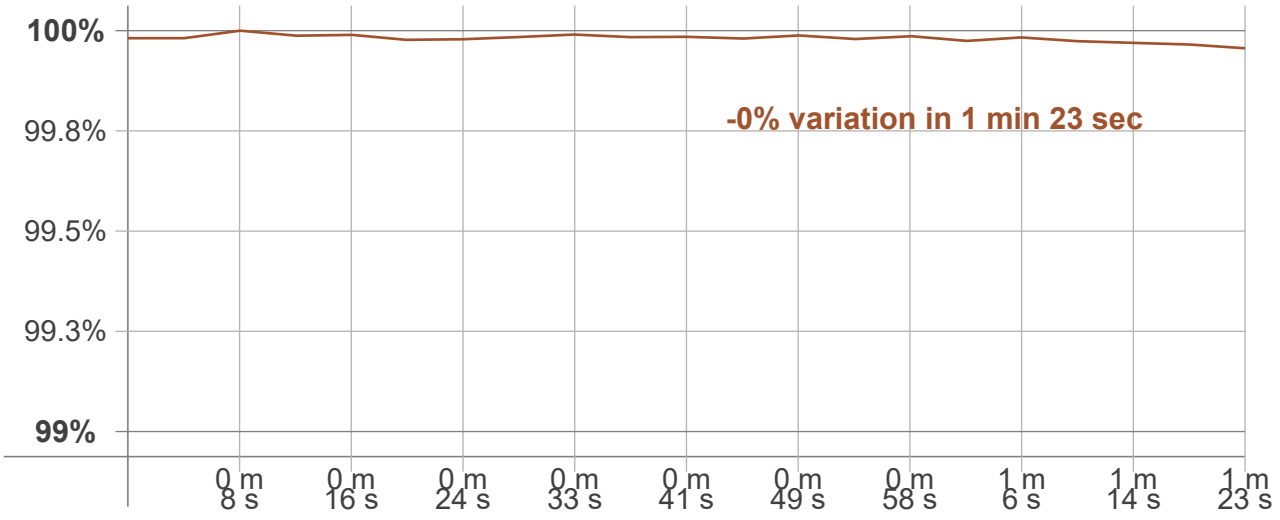
### Efficiency

| | |
|---|---|
| Radiated power efficiency | 5.154 |
| Lumen efficiency | 24.88 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 | 3208 lm |
| Warmup variation | -0.0321% | Output change | -95.306 lm |
| | | Output end | 3208 lm |

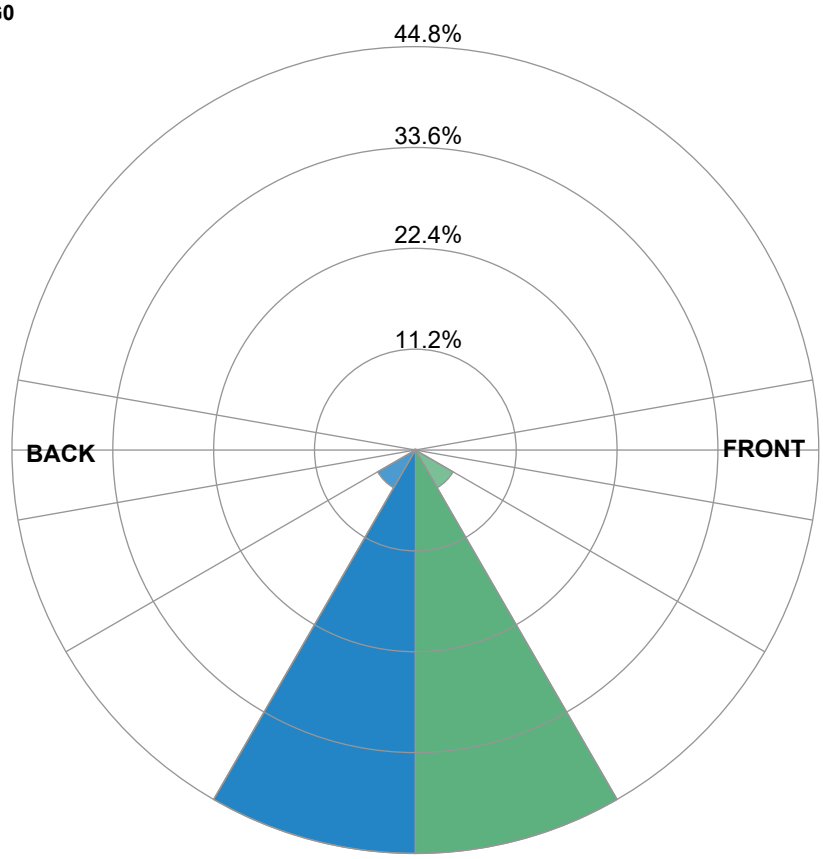
## Stabilization Curve



# Photometric Test Report

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

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

| | | | |
|---|---|---|---|
| **Forward Light** | | | |
| Low (0-30°) | 1440 | lm | 44.8% |
| Medium (30-60°) | 155 | lm | 4.84% |
| High (60-80°) | 10.4 | lm | 0.326% |
| Very High (80-90°) | 0.00188 | lm | 0.0000586% |
| **Back Light** | | | |
| Low (0-30°) | 1440 | lm | 44.8% |
| Medium (30-60°) | 155 | lm | 4.84% |
| High (60-80°) | 10.4 | lm | 0.326% |
| Very High (80-90°) | 0.00188 | lm | 0.0000586% |
| **Uplight** | | | |
| Low (90-100°) | 0 | lm | 0% |
| High (100-180°) | 0 | lm | 0% |
| Total | | | |
| **Sum** | 3208 | lm | 100% |

**BUG RATING B3 U0 G0**