# Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-60-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.25-8868-VO |
| Measurement date | 2026-05-25 |

## Measurement Conditions

| | |
|---|---|
| Tested c-planes | 36 planes – 10.00° |
| Tested gamma resolution | 2.00° |
| 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 |

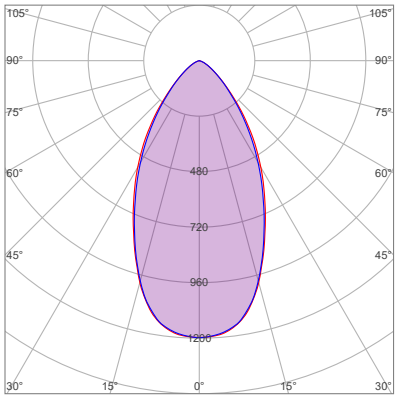
## Tested Light Source

| | |
|---|---|
| Product family | FL200-G2 |
| Luminaire configuration | FL200-G2-XXX-RGBW3083-OM-60-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

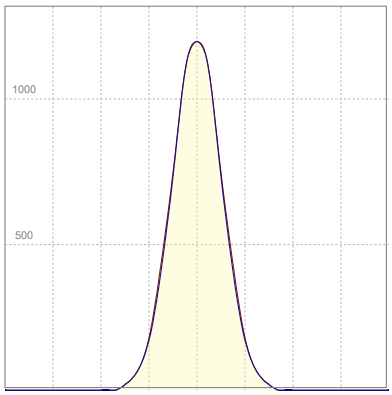
| | |
|---|---|
| Output – Total Lumen | 1156 - 0% / 100% |
| Efficiency | 8.97 lm/W |
| Peak Intensity | 1199 |
| Correlated Color Temperature, CCT | n/a |
| Color Rendering Index | n/a |
| Beam Angle (FWHM) \| C0/180 | 55.2° |
| Beam Angle (FWHM) \| C90/270 | 53.7° |
| Field Angle (10%) \| C0/180 | 99.0°Unit: 0-100% of peak intensity |
| Optical Power | 27292 mW |
| Peak Wavelength | 454 nm |
| Dominant Wavelength | 458 nm |

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

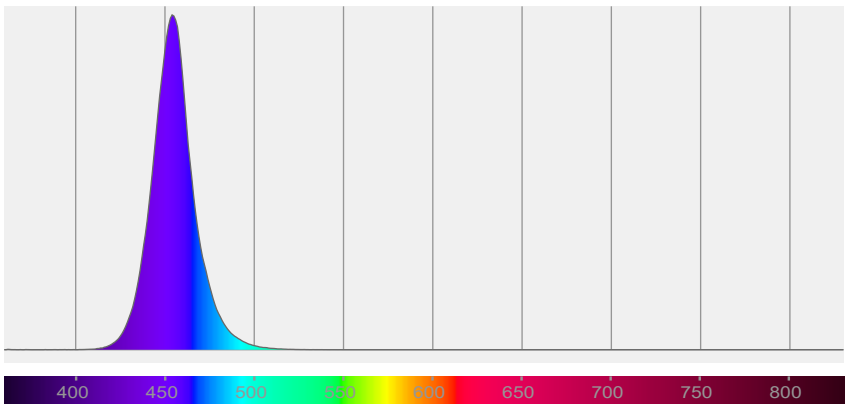



C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram




Spectral Distribution




Color Temperature

NaN K

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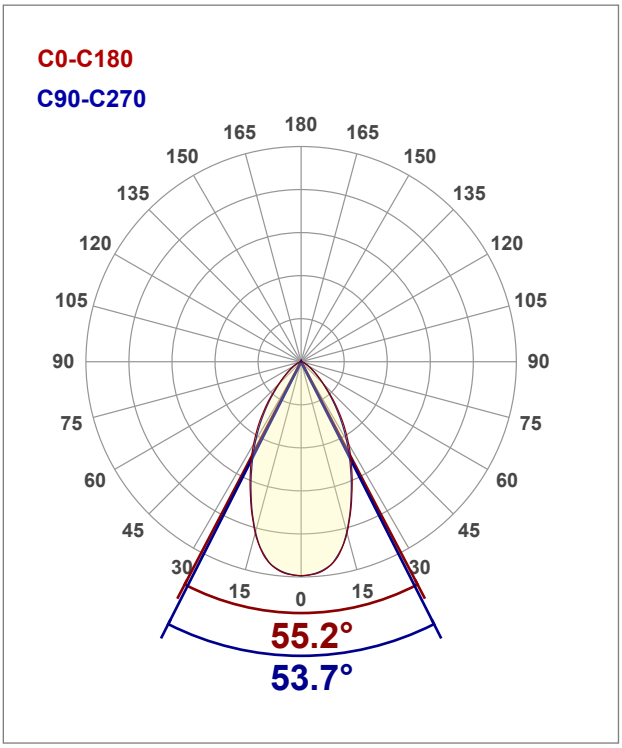
## Luminous Intensity diagram

Unit: 0-100% of peak intensity




## Main Values

| | |
|---|---|
| Output (total Lumen) | 1156 lm |
| Lumen Up% / Down% | 0% / 100% |
| Peak Intensity | 1199 cd |
| Beam Angle (50%-FWHM) | 54.0° |

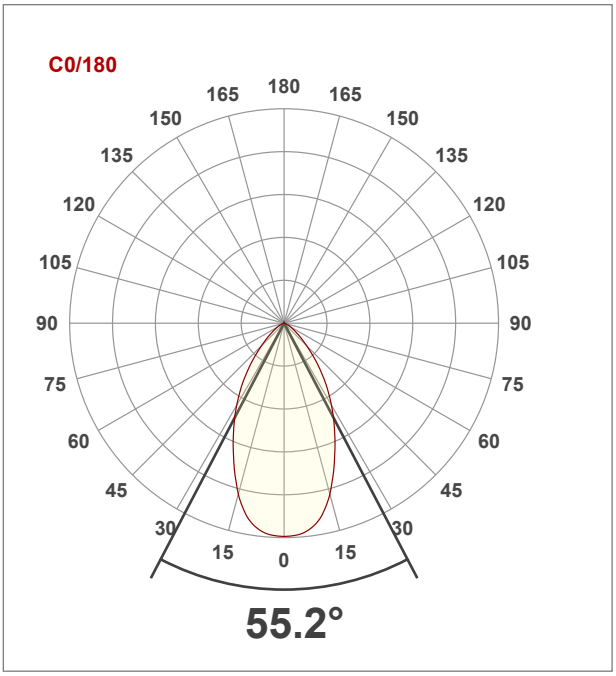
## EU Ecodesign parameters

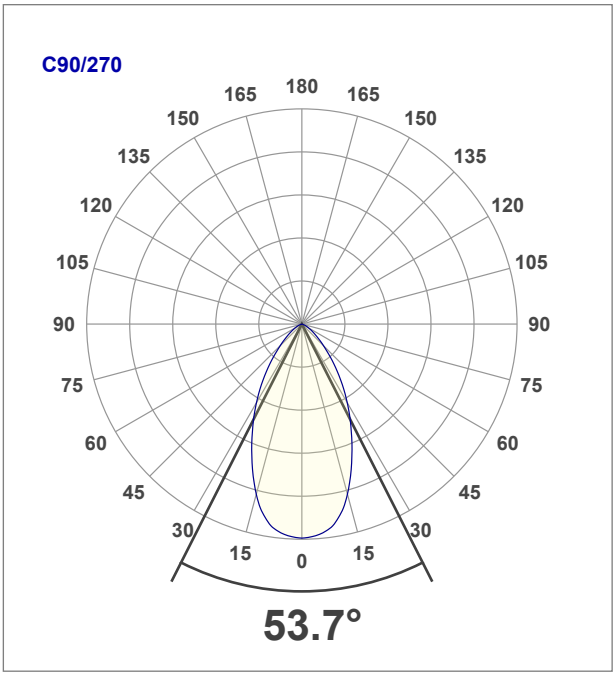
| | |
|---|---|
| Directionality (DLS or NDLS) | DLS |
| Ecodesign Useful Luminous Flux | 1005 lm |
| Ecodesign Energy Class | G |

## Intensity Ratio

| | |
|---|---|
| In 120° cone | 97.43% |
| In 90° cone | 86.92% |

## Angular Distribution

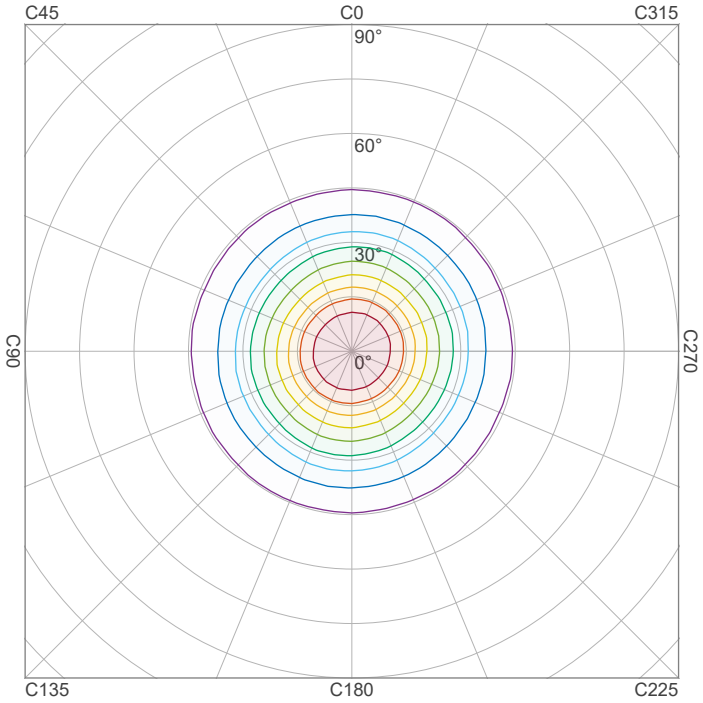


# Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-60-INF-XXXXX-X (B)

## Iso-intensity Diagram (Iso-candela)

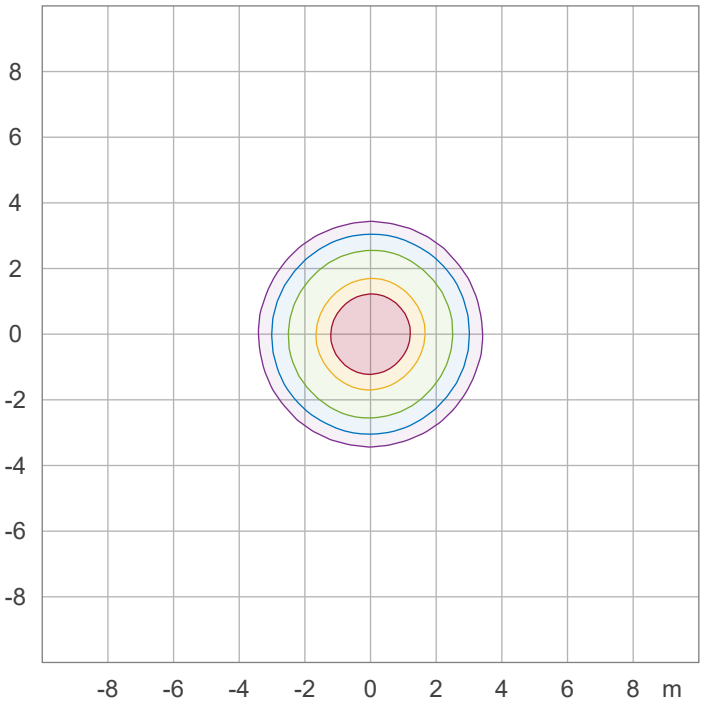



| | | |
|---|---|---|
| 90 % | 1078.1 cd |
| 80 % | 958.3 cd |
| 70 % | 838.5 cd |
| 60 % | 718.7 cd |
| 50 % | 598.9 cd |
| 40 % | 479.2 cd |
| 30 % | 359.4 cd |
| 20 % | 239.6 cd |
| 10 % | 119.8 cd |

Peak intensity: 1197.9 cd

Number of c-planes: 36

## Iso-illuminance Diagram (Iso-lux)




| | |
|---|---|
| 50.0 % | 66.5 lx |
| 30.0 % | 39.9 lx |
| 10.0 % | 13.3 lx |
| 5.0 % | 6.65 lx |
| 3.0 % | 3.99 lx |

Peak illuminance: 133 lx

Mounting height: 3 m

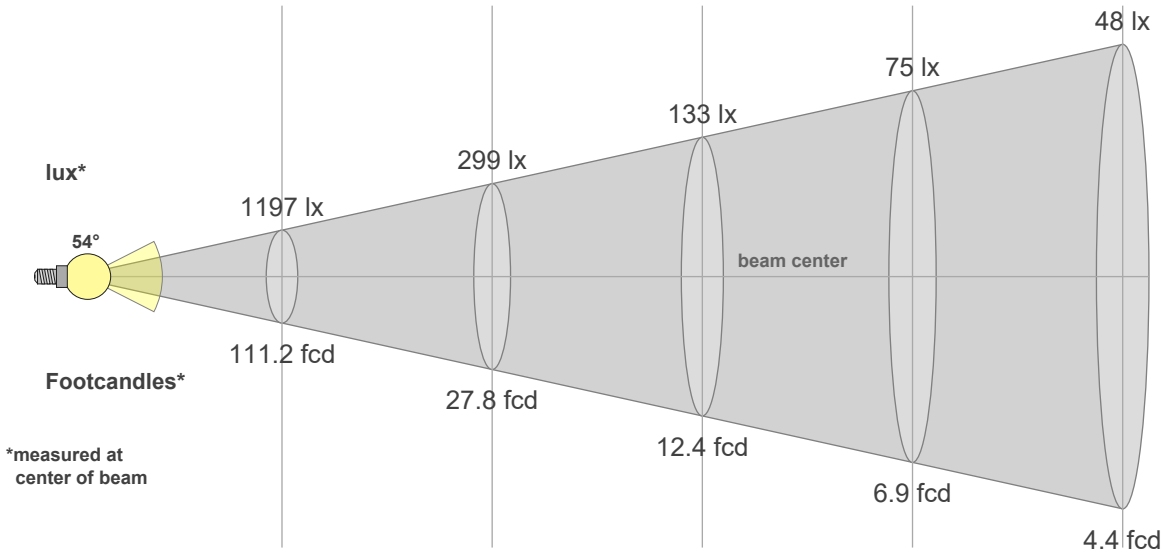
Number of c-planes: 36

# Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-60-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) | 1 m | 2 m | 3.1 m | 4.1 m | 5.1 m |
|---|---|---|---|---|---|
| Beam width (feet) | 3.3 ft | 6.7 ft | 10 ft | 13.4 ft | 16.7 ft |

# Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-60-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 |
| 1197 | 299 | 133 | 75 | 48 | 33 | 24 | 19 | 15 | 12 | 10 | 8 | 7 | 6 | 5 | 5 | 4 | 4 | 3 | 3 | lux |
| 111.2 | 27.8 | 12.4 | 6.9 | 4.4 | 3.1 | 2.3 | 1.7 | 1.4 | 1.1 | 0.9 | 0.8 | 0.7 | 0.6 | 0.5 | 0.4 | 0.4 | 0.3 | 0.3 | 0.3 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1197 | 1195 | 1189 | 1175 | 1153 | 1121 | 1076 | 1022 | 959 | 892 | 826 | 762 | 701 | 643 | 587 | 532 | 478 | 427 | 375 | 326 | cd |
| 100% | 100% | 99% | 98% | 96% | 94% | 90% | 85% | 80% | 75% | 69% | 64% | 59% | 54% | 49% | 44% | 40% | 36% | 31% | 27% | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1197 | 1193 | 1185 | 1171 | 1151 | 1117 | 1072 | 1017 | 952 | 885 | 816 | 750 | 685 | 624 | 565 | 508 | 454 | 401 | 350 | 304 | cd |
| 100% | 100% | 99% | 98% | 96% | 93% | 90% | 85% | 80% | 74% | 68% | 63% | 57% | 52% | 47% | 42% | 38% | 33% | 29% | 25% | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1197 | 1195 | 1189 | 1175 | 1153 | 1121 | 1076 | 1022 | 959 | 892 | 826 | 762 | 701 | 643 | 587 | 532 | 478 | 427 | 375 | 326 | cd |
| 100% | 100% | 99% | 98% | 96% | 94% | 90% | 85% | 80% | 75% | 69% | 64% | 59% | 54% | 49% | 44% | 40% | 36% | 31% | 27% | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1197 | 1193 | 1185 | 1171 | 1151 | 1117 | 1072 | 1017 | 952 | 885 | 816 | 750 | 685 | 624 | 565 | 508 | 454 | 401 | 350 | 304 | cd |
| 100% | 100% | 99% | 98% | 96% | 93% | 90% | 85% | 80% | 74% | 68% | 63% | 57% | 52% | 47% | 42% | 38% | 33% | 29% | 25% | of 0°val |

# Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-60-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**

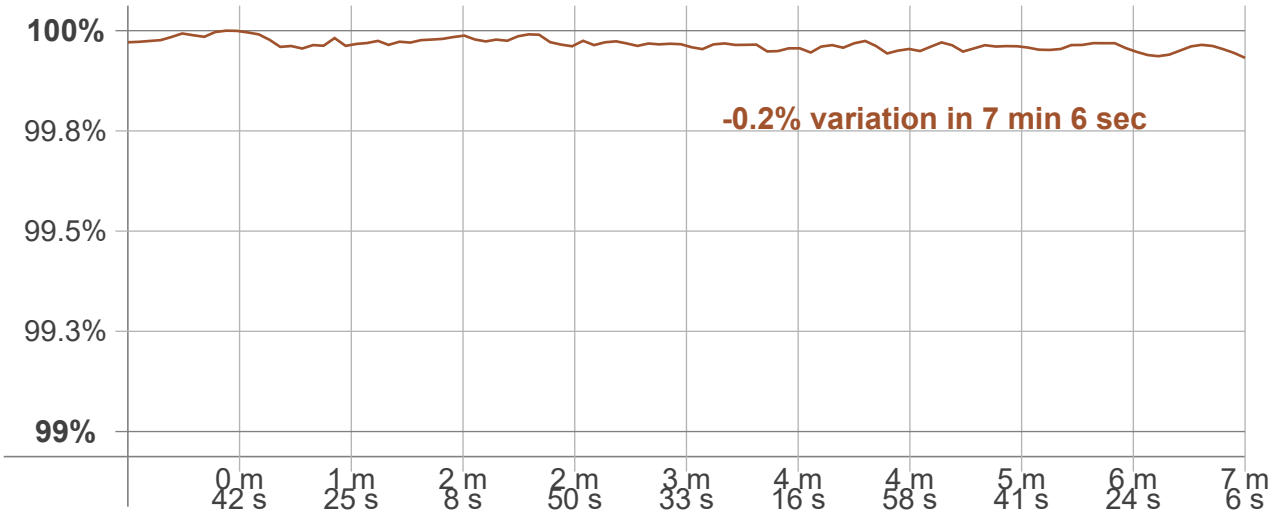
### Efficiency

| | |
|---|---|
| Radiated power efficiency | 21.17 |
| Lumen efficiency | 8.97 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 | 1157 lm |
| Warmup variation | -0.1504% | Output change | -0.2394 lm |
| | | Output end | 1156 lm |

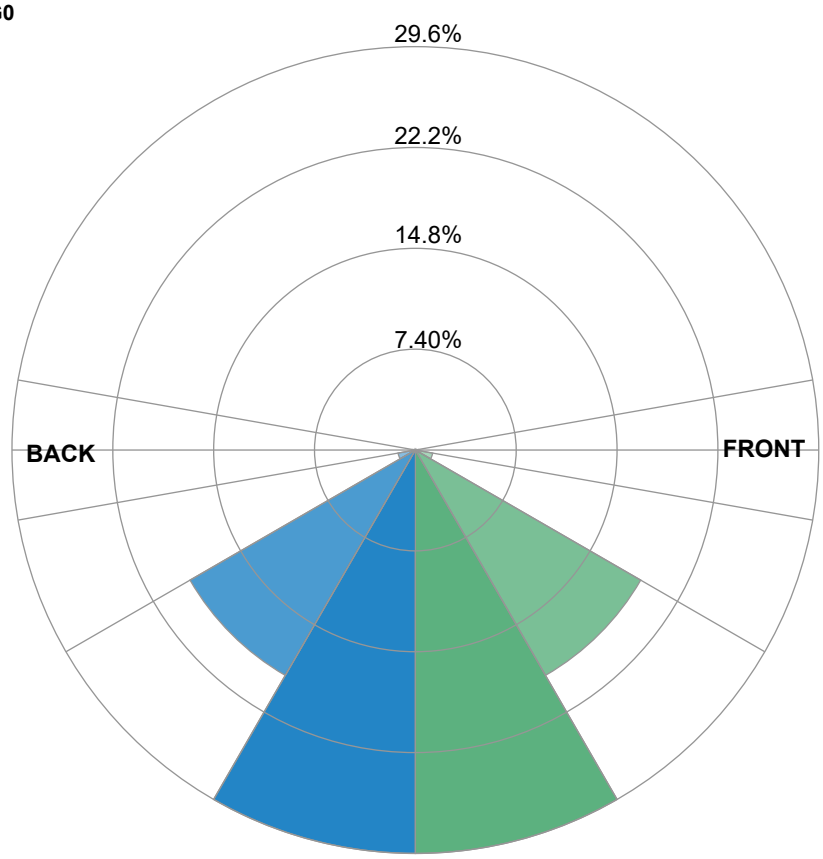
## Stabilization Curve



# Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-60-INF-XXXXX-X (B)

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

| | | | |
|---|---|---|---|
| **Forward Light** | | | |
| Low (0-30°) | 342 | lm | 29.6% |
| Medium (30-60°) | 221 | lm | 19.1% |
| High (60-80°) | 14.9 | lm | 1.29% |
| Very High (80-90°) | 0.0000566 | lm | 0.00000489% |
| **Back Light** | | | |
| Low (0-30°) | 342 | lm | 29.6% |
| Medium (30-60°) | 221 | lm | 19.1% |
| High (60-80°) | 14.9 | lm | 1.29% |
| Very High (80-90°) | 0.0000566 | lm | 0.00000489% |
| **Uplight** | | | |
| Low (90-100°) | 0 | lm | 0% |
| High (100-180°) | 0 | lm | 0% |
| Total | | | |
| **Sum** | 1156 | lm | 100% |

**BUG RATING B1 U0 G0**