# Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-30-INF-XXXXX-X (ALL ON)

## 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.25-8836-VO |
| Measurement date | 2026-05-25 |

## Measurement Conditions

| | |
|---|---|
| Tested c-planes | 36 planes – 10.00° |
| Tested gamma resolution | 1.50° |
| Input Power | 128.9 W |

## Electrical Data

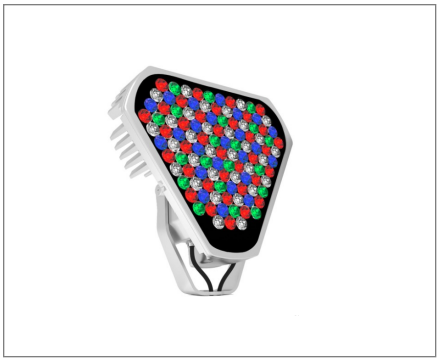
| | |
|---|---|
| Input Power | 128.9 W |
| Input Voltage | 381.4 V DC |
| Input Current | 0.34 A |
| Power Factor | 1.00 |

## Tested Light Source

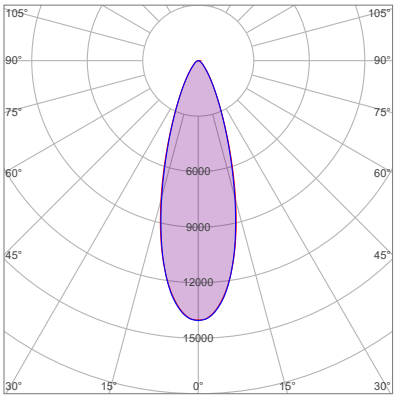
| | |
|---|---|
| Product family | FL200-G2 |
| Luminaire configuration | FL200-G2-XXX-RGBW3083-OM-30-INF-XXXXX-X (ALL ON) |
| Manufacturer | GVA Lighting, Inc. |
| Size (width x length x height) | 106 mm 0 mm x 430 mm |

## Main Light Measurement Results

| | |
|---|---|
| Output – Total Lumen | 6019 - 0% / 100% |
| Efficiency | 46.69 lm/W |
| Peak Intensity | 14050 |
| Correlated Color Temperature, CCT | n/a |
| Color Rendering Index | n/a |
| Beam Angle (FWHM) \| C0/180 | 32.4° |
| Beam Angle (FWHM) \| C90/270 | 31.9° |
| Field Angle (10%) \| C0/180 | 63.9°Unit: 0-100% of peak intensity |
| Optical Power | 25474 mW |
| Peak Wavelength | 453 nm |
| Dominant Wavelength | 539 nm |

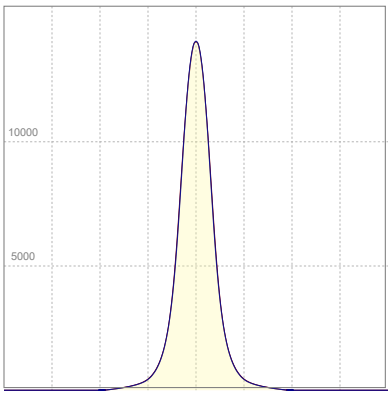


Polar Light Distribution Diagram
Unit: 0-100% of peak intensity

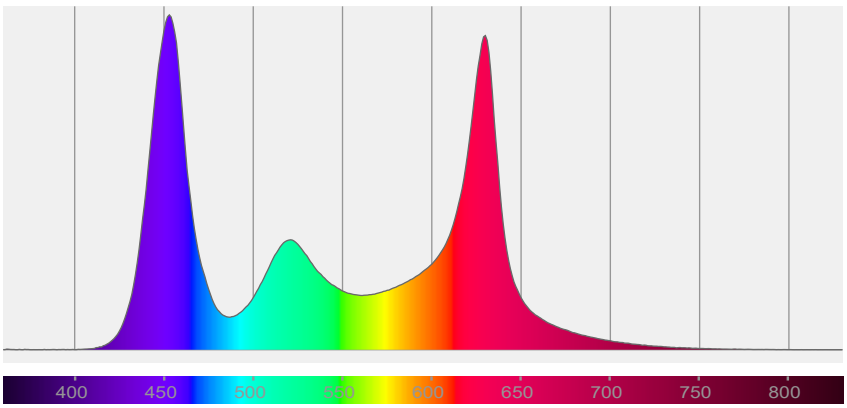



C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram




Spectral Distribution




Color Temperature

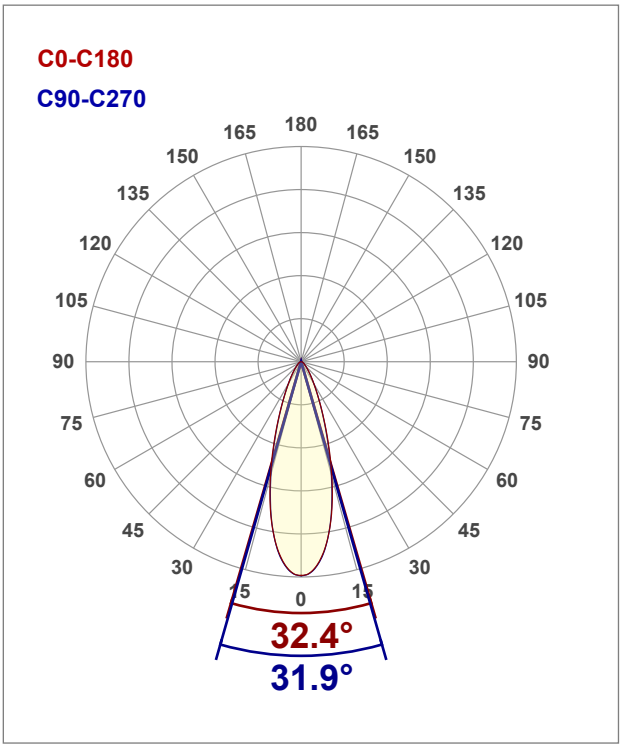
NaN K

# Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-30-INF-XXXXX-X (ALL ON)

## Luminous Intensity diagram

Unit: 0-100% of peak intensity




## Main Values

| | |
|---|---|
| Output (total Lumen) | 6019 lm |
| Lumen Up% / Down% | 0% / 100% |
| Peak Intensity | 14050 cd |
| Beam Angle (50%-FWHM) | 32.1° |

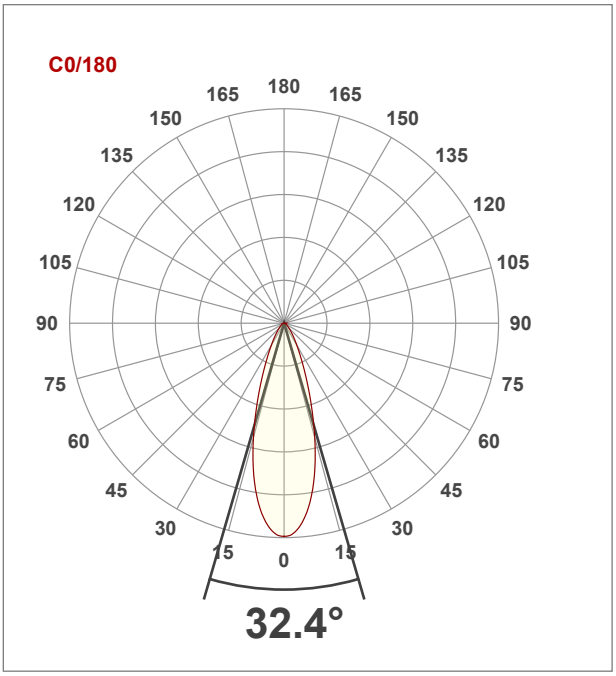
## EU Ecodesign parameters

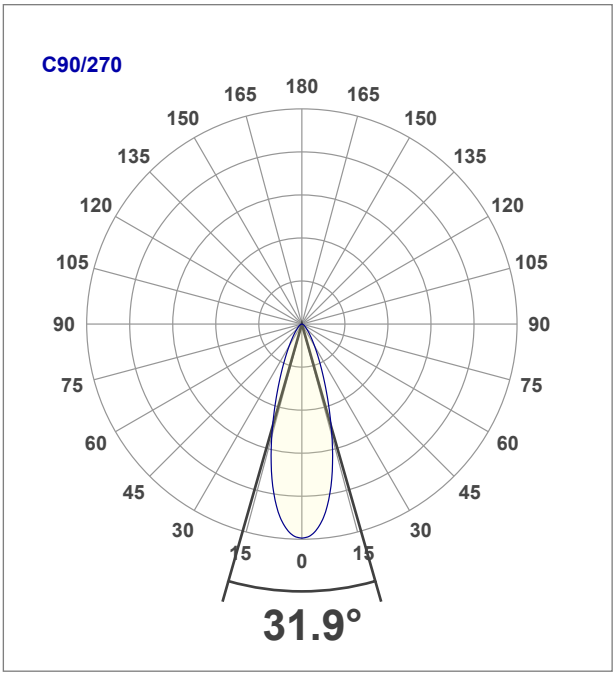
| | |
|---|---|
| Directionality (DLS or NDLS) | DLS |
| Ecodesign Useful Luminous Flux | 5455 lm |
| Ecodesign Energy Class | G |

## Intensity Ratio

| | |
|---|---|
| In 120° cone | 96.63% |
| In 90° cone | 90.61% |

## Angular Distribution

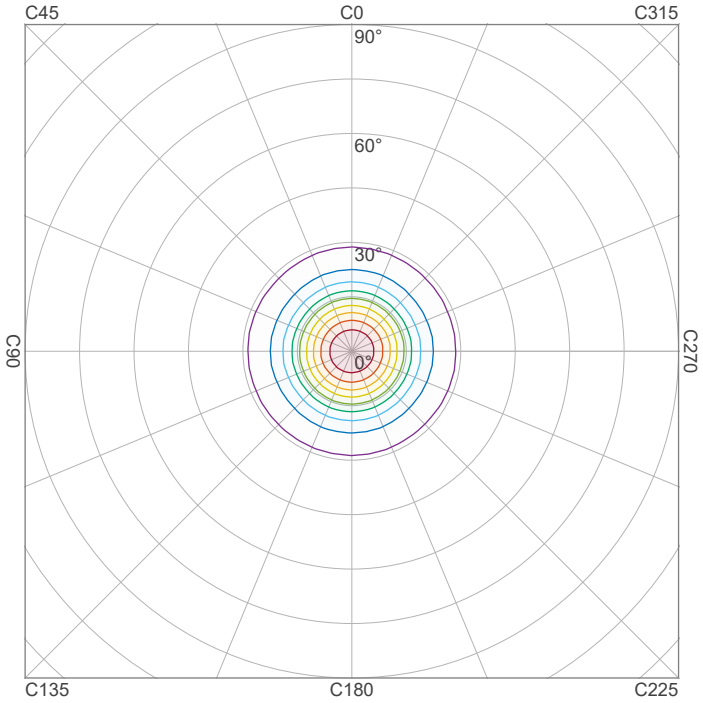


# Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-30-INF-XXXXX-X (ALL ON)

## Iso-intensity Diagram (Iso-candela)

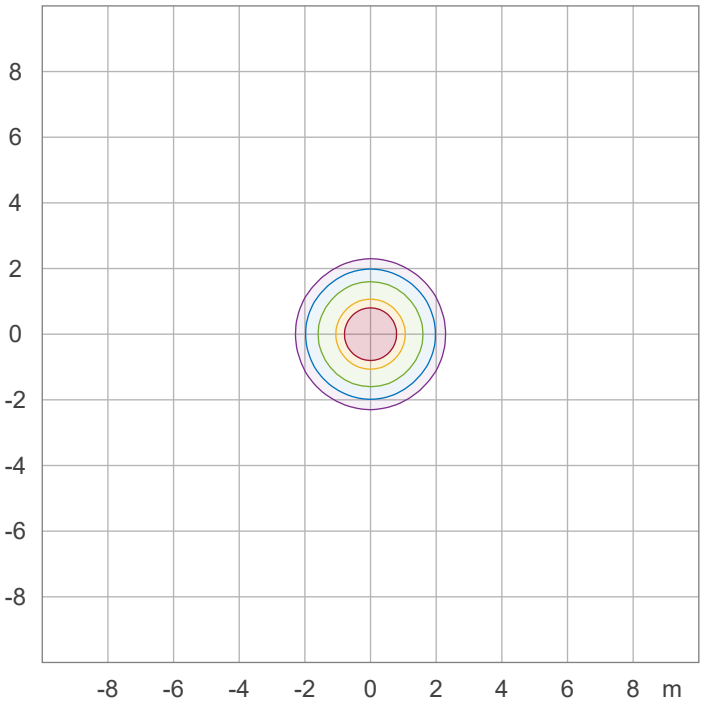



| | | |
|---|---|---|
| 90 % | 12630.5 cd |
| 80 % | 11227.1 cd |
| 70 % | 9823.7 cd |
| 60 % | 8420.3 cd |
| 50 % | 7016.9 cd |
| 40 % | 5613.5 cd |
| 30 % | 4210.2 cd |
| 20 % | 2806.8 cd |
| 10 % | 1403.4 cd |

Peak intensity: 14033.8 cd

Number of c-planes: 36

## Iso-illuminance Diagram (Iso-lux)




| | |
|---|---|
| 50.0 % | 780 lx |
| 30.0 % | 468 lx |
| 10.0 % | 156 lx |
| 5.0 % | 78 lx |
| 3.0 % | 46.8 lx |

Peak illuminance: 1559 lx

Mounting height: 3 m

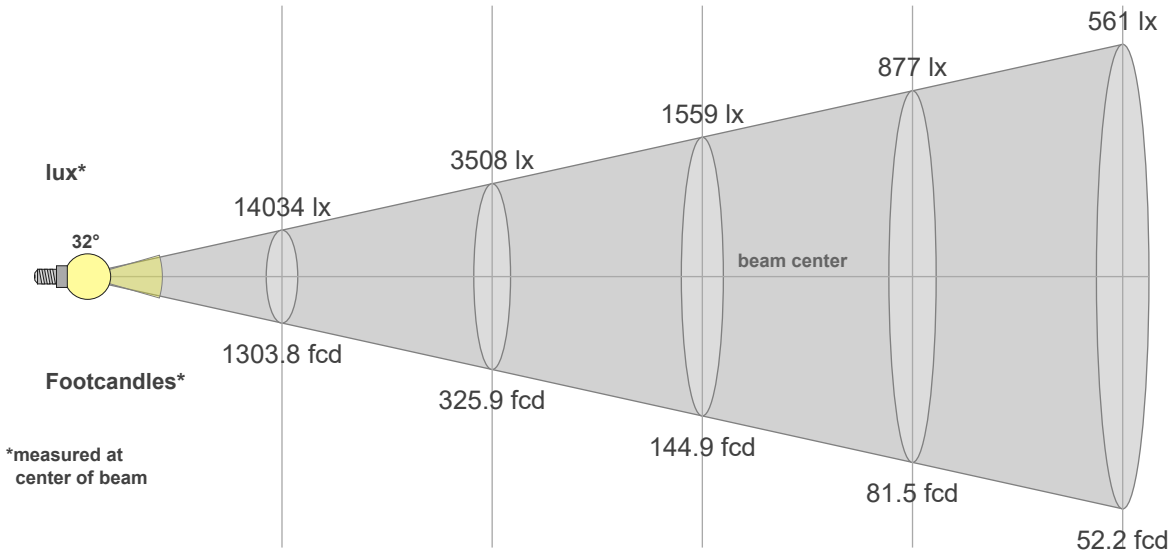
Number of c-planes: 36

# Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-30-INF-XXXXX-X (ALL ON)

## 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) | 0.6 m | 1.2 m | 1.7 m | 2.3 m | 2.9 m |
|---|---|---|---|---|---|
| Beam width (feet) | 1.9 ft | 3.8 ft | 5.7 ft | 7.6 ft | 9.4 ft |

# Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-30-INF-XXXXX-X (ALL ON)

## 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 |
| 14034 | 3508 | 1559 | 877 | 561 | 390 | 286 | 219 | 173 | 140 | 116 | 97 | 83 | 72 | 62 | 55 | 49 | 43 | 39 | 35 | lux |
| 1303.8 | 325.9 | 144.9 | 81.5 | 52.2 | 36.2 | 26.6 | 20.4 | 16.1 | 13 | 10.8 | 9.1 | 7.7 | 6.7 | 5.8 | 5.1 | 4.5 | 4 | 3.6 | 3.3 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14.0k | 13.9k | 13.5k | 12.9k | 12.0k | 10.9k | 9.7k | 8.4k | 7.1k | 5.9k | 4.8k | 3.9k | 3.1k | 2.5k | 2.1k | 1.7k | 1.4k | 1.2k | 1.0k | 0.8k | cd |
| 100% | 99% | 96% | 92% | 85% | 78% | 69% | 60% | 51% | 42% | 34% | 28% | 22% | 18% | 15% | 12% | 10% | 8% | 7% | 6% | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14.0k | 13.9k | 13.5k | 12.9k | 12.0k | 10.9k | 9.6k | 8.3k | 7.0k | 5.8k | 4.7k | 3.8k | 3.1k | 2.5k | 2.0k | 1.7k | 1.4k | 1.1k | 0.9k | 0.8k | cd |
| 100% | 99% | 96% | 92% | 86% | 78% | 69% | 59% | 50% | 41% | 33% | 27% | 22% | 18% | 15% | 12% | 10% | 8% | 7% | 6% | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14.0k | 13.9k | 13.5k | 12.9k | 12.0k | 10.9k | 9.7k | 8.4k | 7.1k | 5.9k | 4.8k | 3.9k | 3.1k | 2.5k | 2.1k | 1.7k | 1.4k | 1.2k | 1.0k | 0.8k | cd |
| 100% | 99% | 96% | 92% | 85% | 78% | 69% | 60% | 51% | 42% | 34% | 28% | 22% | 18% | 15% | 12% | 10% | 8% | 7% | 6% | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14.0k | 13.9k | 13.5k | 12.9k | 12.0k | 10.9k | 9.6k | 8.3k | 7.0k | 5.8k | 4.7k | 3.8k | 3.1k | 2.5k | 2.0k | 1.7k | 1.4k | 1.1k | 0.9k | 0.8k | cd |
| 100% | 99% | 96% | 92% | 86% | 78% | 69% | 59% | 50% | 41% | 33% | 27% | 22% | 18% | 15% | 12% | 10% | 8% | 7% | 6% | of 0°val |

# Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-30-INF-XXXXX-X (ALL ON)

## 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**

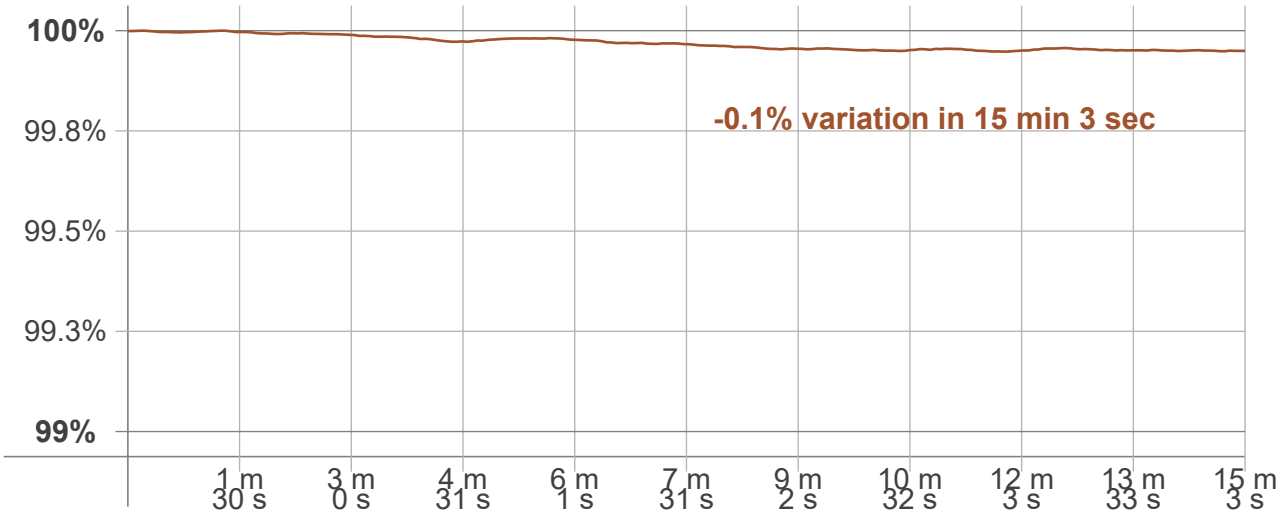
### Efficiency

| | |
|---|---|
| Radiated power efficiency | 19.76 |
| Lumen efficiency | 46.69 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 3 sec | Output start | 6022 lm |
| Warmup variation | -0.0779% | Output change | -2.8485 lm |
| | | Output end | 6019 lm |

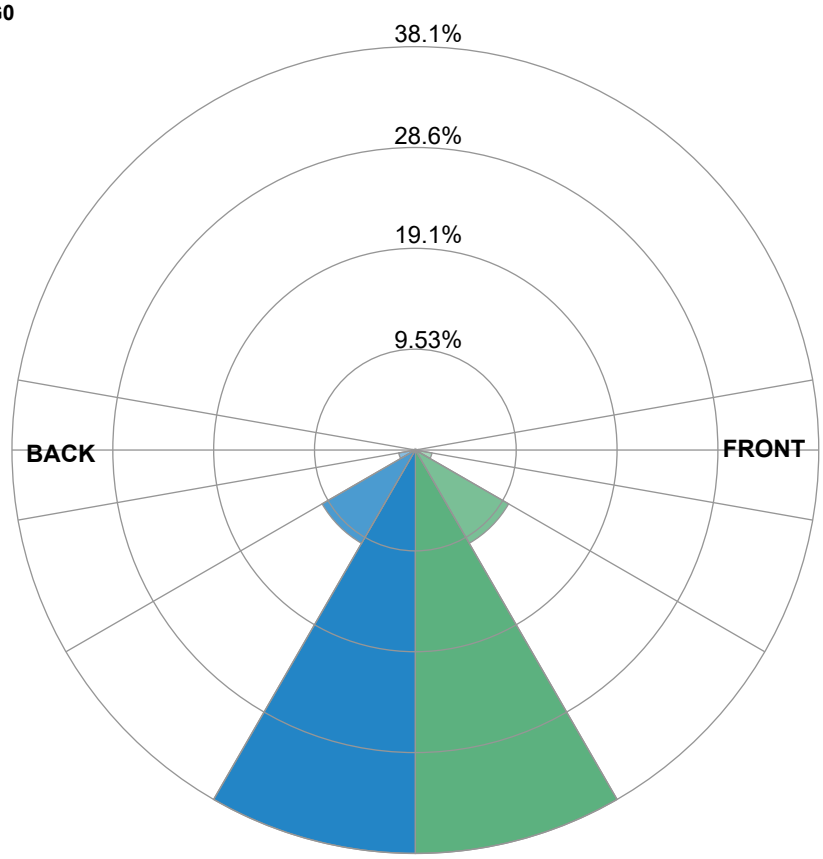
## Stabilization Curve



# Photometric Test Report

FL200-G2-XXX-RGBW3083-OM-30-INF-XXXXX-X (ALL ON)

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

| | | | |
|---|---|---|---|
| **Forward Light** | | | |
| Low (0-30°) | 2300 | lm | 38.1% |
| Medium (30-60°) | 613 | lm | 10.2% |
| High (60-80°) | 96.0 | lm | 1.60% |
| Very High (80-90°) | 5.49 | lm | 0.0912% |
| **Back Light** | | | |
| Low (0-30°) | 2300 | lm | 38.1% |
| Medium (30-60°) | 613 | lm | 10.2% |
| High (60-80°) | 96.0 | lm | 1.60% |
| Very High (80-90°) | 5.49 | lm | 0.0912% |
| **Uplight** | | | |
| Low (90-100°) | 0 | lm | 0% |
| High (100-180°) | 0 | lm | 0% |
| Total | | | |
| **Sum** | 6019 | lm | 100% |

**BUG RATING B3 U0 G0**