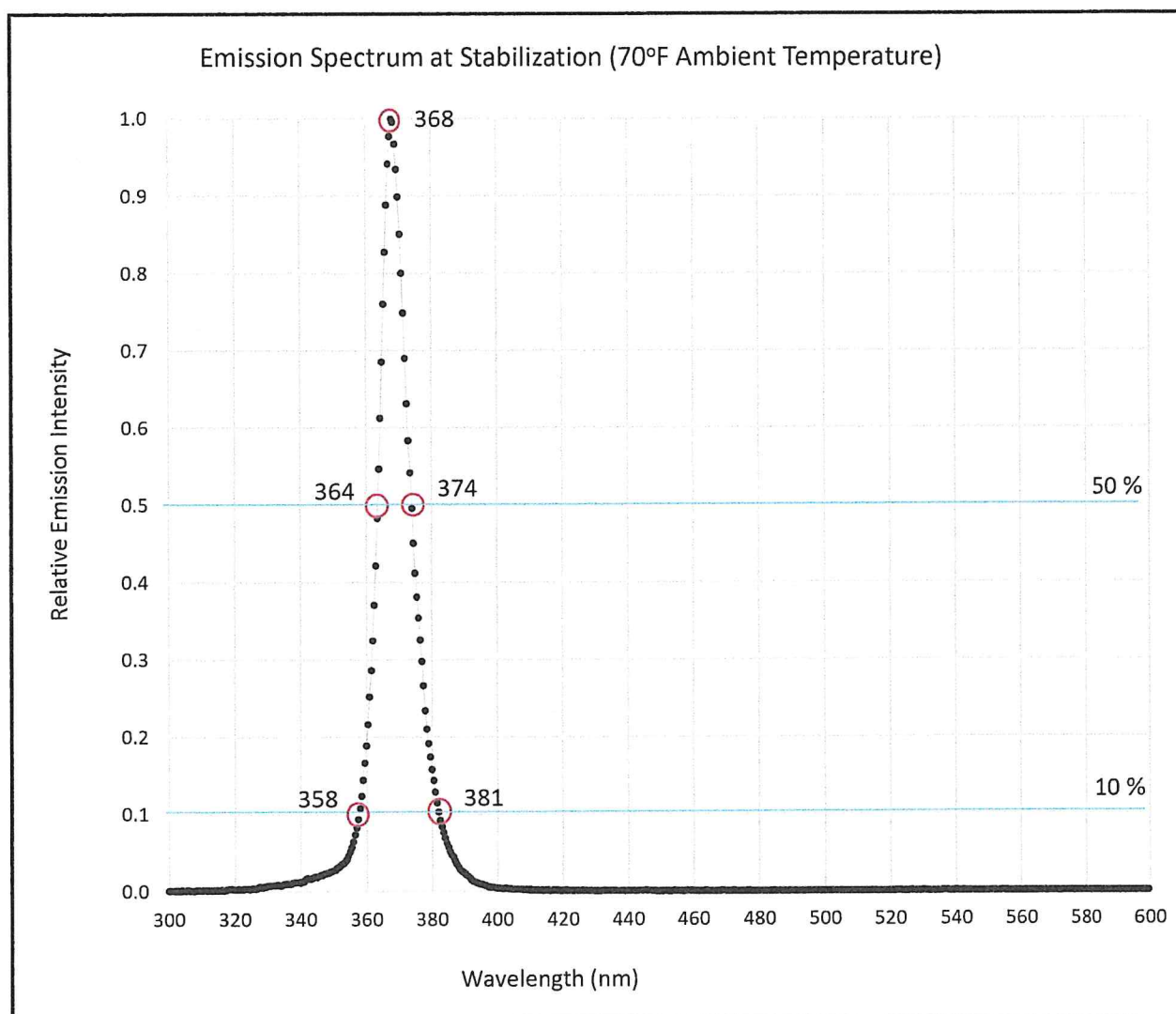


# SN# 290748-17 Lamp Specific Acceptance Test



| Model: Profusion                       | Result | Steady State | Acceptable | Units              |
|----------------------------------------|--------|--------------|------------|--------------------|
| Peak Output Wavelength                 | Pass   | 368 ✓        | 365 ± 5    | nm                 |
| Full Width Half Maximum (FWHM)         | Pass   | 11 ✓         | ≤ 15       | nm                 |
| Full Width at 10% Maximum              | Pass   | 23 ✓         | ≤ 30       | nm                 |
| Longest Wavelength at Half Maximum     | Pass   | 374 ✓        | ≤ 377      | nm                 |
| Max Excitation Irradiance (347-382 nm) | Pass   | 4113 ✓       | ≥ 2000     | μW/cm <sup>2</sup> |



Inspector:

MHP

Date of Certification:

4.3.2025

This lamp has been tested to conform to all requirements of:

ASTM E3022 ✓

AITM6-1001 ✓

ISO 3059 ✓

RRES 90061 ✓

Emission Spectrum Measured at Stabilization Temperature with Blue-wave UV-25 S/N 22011404, Certificate Number 22011404-UV-CR2-1124

# Profusion Series, Certificate of Conformance



| SN# 290748-17                                                | Switch On | Steady State | Elevated Temp* | Acceptable   | Units                     |
|--------------------------------------------------------------|-----------|--------------|----------------|--------------|---------------------------|
| Peak Output Wavelength                                       | 367       | 368          | 369            | $365 \pm 5$  | nm                        |
| Full Width Half Maximum (FWHM)                               | 11        | 11           | 13             | $\leq 15$    | nm                        |
| Full Width at 10% Maximum                                    | 23        | 23           | 26             | $\leq 30$    | nm                        |
| Longest Wavelength at Half Maximum                           | 373       | 374          | 376            | $\leq 377$   | nm                        |
| Visible Emission at 15 in                                    | 9         | 8            | 8              | $\leq 20$    | Lux                       |
| Visible Emission at 36 in                                    | 3         | 3            | 3              | $\leq 5$     | Lux                       |
| Irradiated Area at 15 in ( $>1000 \mu\text{W}/\text{cm}^2$ ) | 10        | 9            | 8              | $\geq 5$     | Inch Diameter             |
| Max Excitation Irradiance (347-382 nm)                       | 4,812     | 4,113        | 2,600          | $\geq 2,000$ | $\mu\text{W}/\text{cm}^2$ |
| Irradiance at Peak Output Wavelength                         | 395       | 338          | 210            | -            | $\mu\text{W}/\text{cm}^2$ |
| Min Working Distance** ( $< 5000 \mu\text{W}/\text{cm}^2$ )  | 15        | 13           | 12             | -            | Inches                    |
| Max Working Distance** ( $> 1200 \mu\text{W}/\text{cm}^2$ )  | 27        | 25           | 21             | -            | Inches                    |
| Body Stabilization Temp (70°F Ambient)                       | -         | 104          | -              | $\leq 120$   | °F                        |
| Current Ripple                                               | 9         | 9            | 9              | $\leq 35$    | mA peak-peak              |

\* Tested in a 115°F Environment, the **maximum ambient temperature where still light meets all requirements**

\*\* Profusion series lights use a single LED emitter, thus beam uniformity does not change with working distance (RRES 90061)

