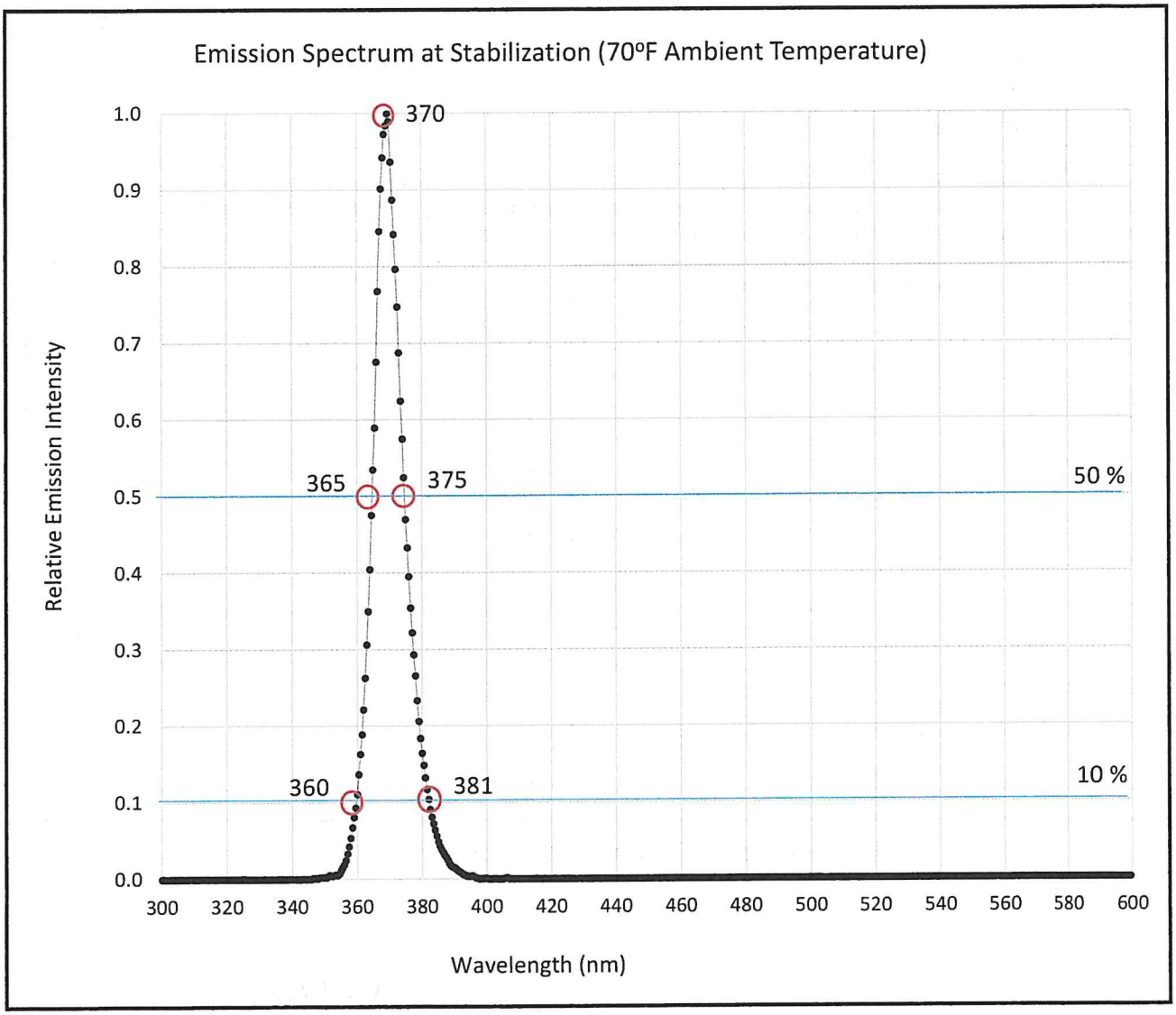
# SN# 290678-02 Lamp Specific Acceptance Test

| Model: Profusion | Result | Steady State | Acceptable | Units |
|---|---|---|---|---|
| Peak Output Wavelength | Pass | 370 ✓ | 365 ± 5 | nm |
| Full Width Half Maximum (FWHM) | Pass | 11 ✓ | ≤ 15 | nm |
| Full Width at 10% Maximum | Pass | 21 ✓ | ≤ 30 | nm |
| Longest Wavelength at Half Maximum | Pass | 375 ✓ | ≤ 377 | nm |
| Max Excitation Irradiance (347-382 nm) | Pass | 3901 ✓ | ≥ 2000 | $\mu W/cm^2$ |




**Inspector:** MHP

**Date of Certification:** 11-21-2024

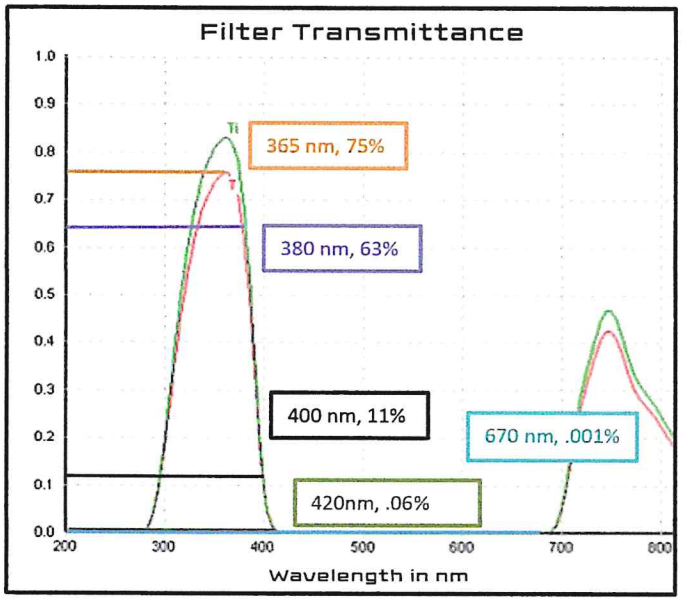
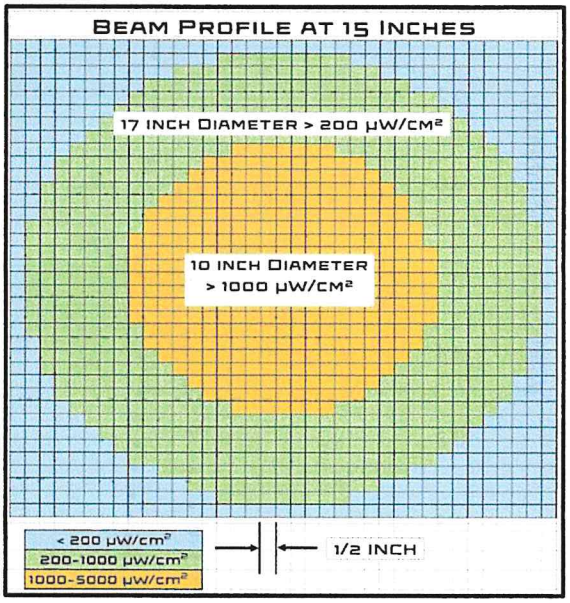
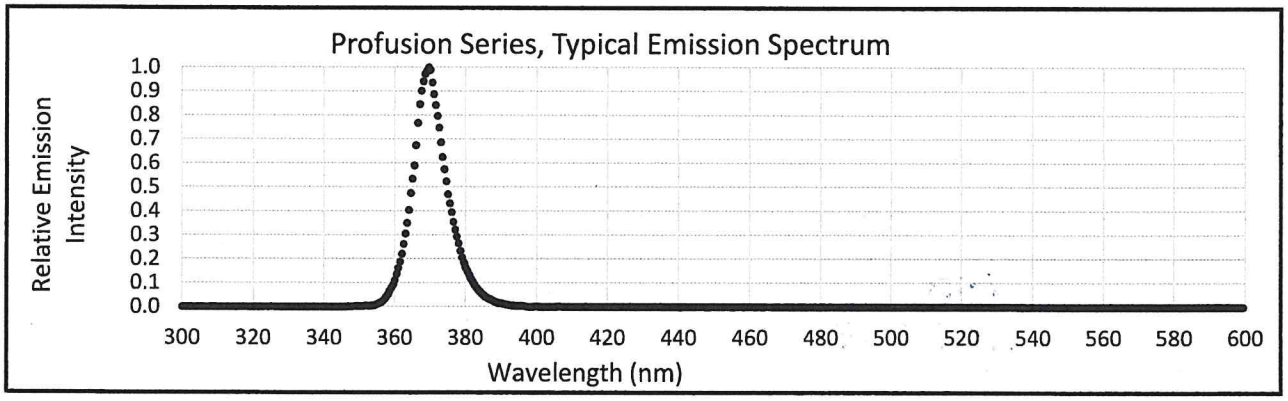
**This lamp has been tested to conform to all requirements of:**

**ASTM E3022** ✓ **AITM6-1001** ✓ **ISO 3059** ✓ **RRES 90061** ✓

Emission Spectrum Measured at Stabilization Temperature with Blue-wave UV-25 S/N 16060829, Certificate Number 16060829-UV-CR2-1223

# Profusion Series, Certificate of Conformance

| SN# 290678-02 | Switch On | Steady State | Elevated Temp* | Acceptable | Units |
|---|---|---|---|---|---|
| Peak Output Wavelength | 369 | 370 | 369 | 365 ± 5 | nm |
| Full Width Half Maximum (FWHM) | 11 | 11 | 13 | ≤ 15 | nm |
| Full Width at 10% Maximum | 21 | 21 | 26 | ≤ 30 | nm |
| Longest Wavelength at Half Maximum | 374 | 375 | 376 | ≤ 377 | nm |
| Visible Emission at 15 in | 9 | 8 | 8 | ≤ 20 | Lux |
| Visible Emission at 36 in | 3 | 3 | 3 | ≤ 5 | Lux |
| Irradiated Area at 15 in (>1000 µW/cm$^2$) | 10 | 9 | 8 | ≥ 5 | Inch Diameter |
| Max Excitation Irradiance (347-382 nm) | 4,564 | 3,901 | 2,600 | ≥ 2,000 | µW/cm$^2$ |
| Irradiance at Peak Output Wavelength | 401 | 343 | 210 | - | µW/cm$^2$ |
| Min Working Distance** ( < 5000 µW/cm$^2$) | 15 | 13 | 12 | - | Inches |
| Max Working Distance** ( > 1200 µW/cm$^2$) | 27 | 25 | 21 | - | Inches |
| Body Stabilization Temp (70°F Ambient) | - | 104 | - | ≤ 120 | °F |
| Current Ripple | 9 | 9 | 9 | ≤ 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)*