Spectral Compliance Assessment – 2% Blue-Light Standard

Fixture ID: SL_083_02°_3001K
Location: 48 Nonohe Pl, Paia, HI 96779
Date / Time: December 4, 2025, 19:35 HST
Measurement Mode: Ambient, direct view of emitting aperture

1. Measurement Overview

A field spectral measurement was conducted in situ of a down-facing exterior light fixture. The spectrometer was positioned directly below the emitting aperture and aligned on-axis with the primary luminous output. The photographic record documents the measurement geometry, GPS location, and operating conditions, establishing provenance and traceability. The geometry is appropriate for characterizing emitted spectral content independent of surface reflections.

2. Correlated Color Temperature (CCT)

The measured Correlated Color Temperature (CCT) of the fixture is 3001 K, placing it in the nominal 'warm white' category. However, CCT alone is not a reliable indicator of blue-light compliance, as phosphor-converted LEDs can maintain low CCT values while emitting significant short-wavelength energy.

3. Spectral Power Distribution and Blue Fraction

Analysis of the measured Spectral Power Distribution (SPD) shows a pronounced short-wavelength component characteristic of phosphor-converted white LEDs, including a distinct blue pump contribution in the ~440–460 nm region. Integration of the SPD indicates that 14.75% of the total emitted radiant power lies below 500 nm.

4. Compliance Evaluation Against 2% Blue Standard

The applicable lighting ordinance limits blue-light emissions to no more than 2% of total spectral output. The measured blue fraction of 14.75% exceeds the allowable limit by a factor of approximately 7.4×. This exceedance is substantial and cannot be attributed to measurement uncertainty.

5. Conclusion

Based on direct field measurement and quantitative spectral analysis, the evaluated fixture does not meet the 2% blue-light emission standard applicable to the measurement location. Despite its nominally warm CCT, the fixture emits a high fraction of short-wavelength light and is therefore non-compliant under the ordinance.

ALTITUDE
22.1 M

20°N   COURSE N 0° GPS
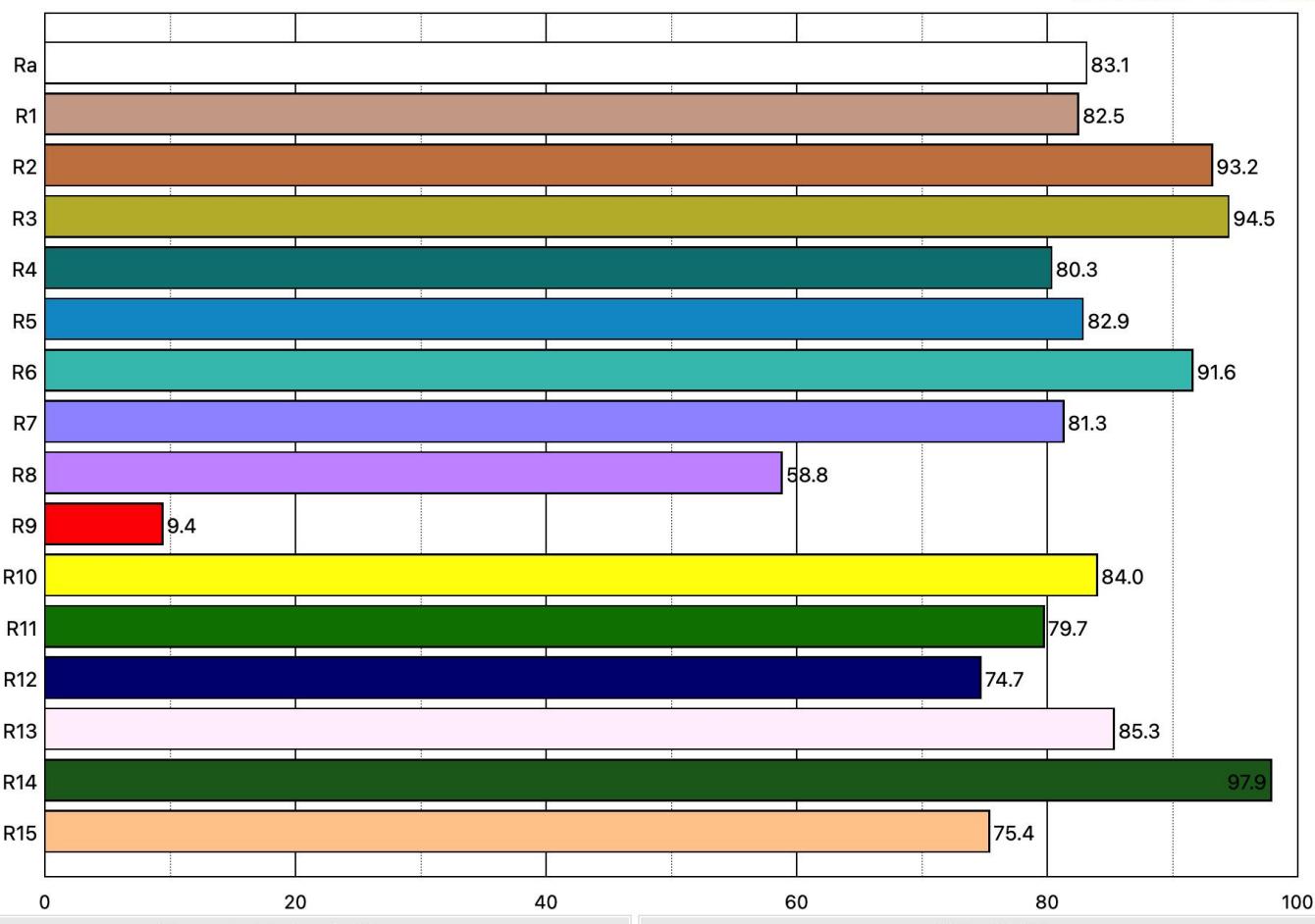
LAT 20°54'39.853"N   THURSDAY   12.04.2025

LONG 156°24'9.841"W   LOCAL TIME   19:35:42

48 Nonohe Pl, Paia, HI 96779, USA

SL_083_02°_3001K

% BLUE = 14.7467

Sample	Value
Ra	83.1
R1	82.5
R2	93.2
R3	94.5
R4	80.3
R5	82.9
R6	91.6
R7	81.3
R8	58.8
R9	9.4
R10	84.0
R11	79.7
R12	74.7
R13	85.3
R14	97.9
R15	75.4

Measuring Mode = Ambient   CCT = 3001K

SL_083_02°_3001K
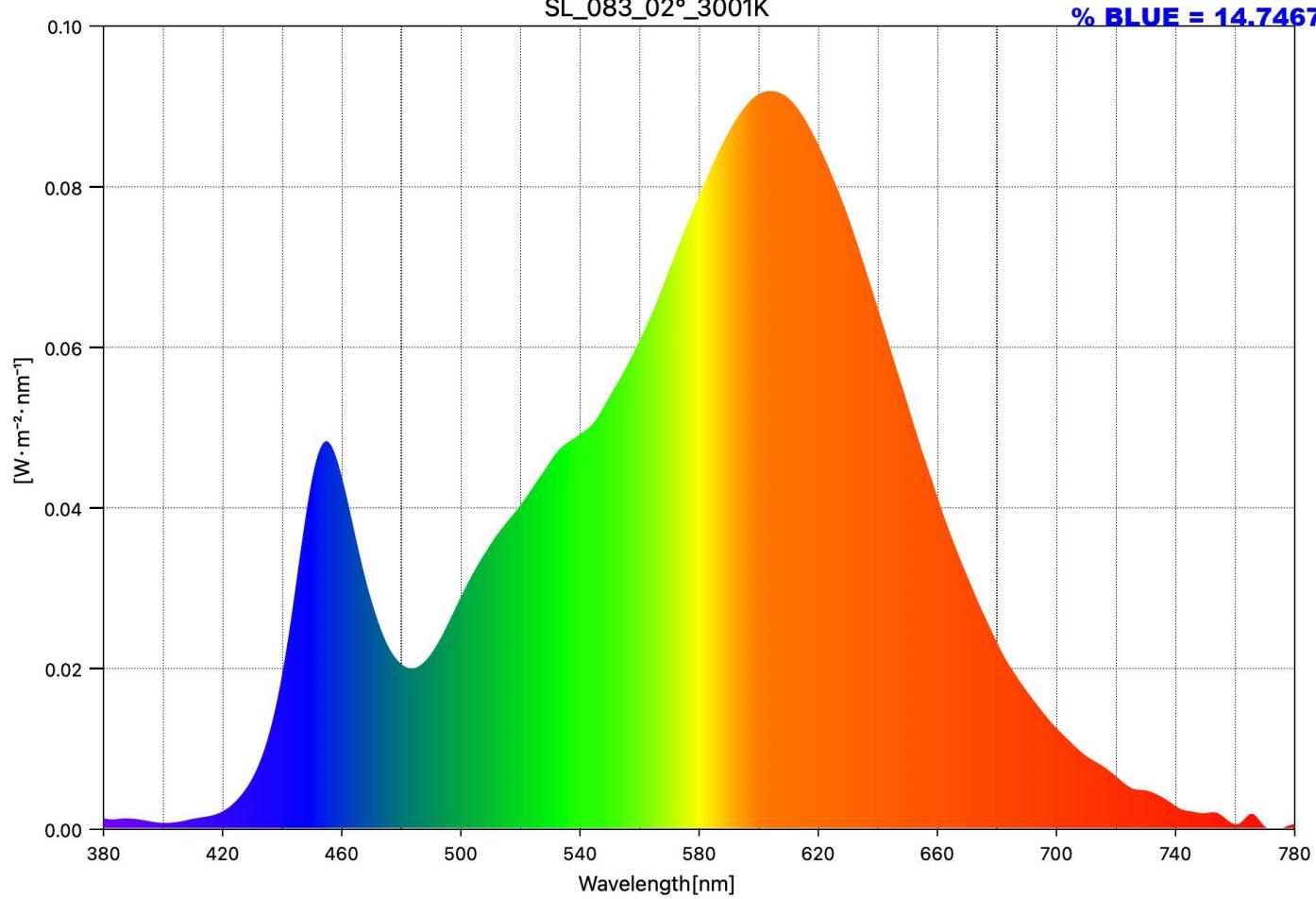
% BLUE = 14.7467

Measuring Mode = Ambient | CCT = 3001K | Peak Wavelength = 604nm

Date Saved	##########	3	4	5
Title	SL_083_02¬∞_3001K			
% BLUE	14.7467			
Measuring Mode	Ambient			
Viewing Angle [¬∞]	2			
CCT [K]	3001			
,äøuv	-0.0025			
Illuminance [lx]	4420			
Peak Wavelength [nm]	604			
Tristimulus Value X	4827.9407			
Tristimulus Value Y	4419.8994			
Tristimulus Value Z	1893.9331			
CIE1931 x	0.4333			
CIE1931 y	0.3967			
CIE1931 z	0.17			
CIE1976 u'	0.2514			
CIE1976 v'	0.5179			
Dominant Wavelength [nm]	584			
Purity [%]	49.1			
PPFD [umolm,Åª¬≤s,Åª¬π]	63.3			
CRI Ra	83.1			
CRI R1	82.5			
CRI R2	93.2			
CRI R3	94.5			
CRI R4	80.3			
CRI R5	82.9			
CRI R6	91.6			
CRI R7	81.3			
CRI R8	58.8			
CRI R9	9.4			
CRI R10	84			
CRI R11	79.7			
CRI R12	74.7			
CRI R13	85.3			
CRI R14	97.9			
CRI R15	75.4			
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TM-30 Rg	96			
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SSI2	---			

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TLMF	---

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Spectral Data 734[nm]	0.00411229
Spectral Data 735[nm]	0.00392239
Spectral Data 736[nm]	0.00371825
Spectral Data 737[nm]	0.00349575
Spectral Data 738[nm]	0.00325076
Spectral Data 739[nm]	0.00298731
Spectral Data 740[nm]	0.00272745
Spectral Data 741[nm]	0.0024957
Spectral Data 742[nm]	0.00231647
Spectral Data 743[nm]	0.00219964
Spectral Data 744[nm]	0.00212526
Spectral Data 745[nm]	0.00206969
Spectral Data 746[nm]	0.00200946
Spectral Data 747[nm]	0.00193577
Spectral Data 748[nm]	0.00186761
Spectral Data 749[nm]	0.00182703
Spectral Data 750[nm]	0.00183581
Spectral Data 751[nm]	0.00189128
Spectral Data 752[nm]	0.00194817
Spectral Data 753[nm]	0.00195697
Spectral Data 754[nm]	0.00186864
Spectral Data 755[nm]	0.00166818
Spectral Data 756[nm]	0.00139518
Spectral Data 757[nm]	0.00109416
Spectral Data 758[nm]	0.00080961
Spectral Data 759[nm]	0.00058533
Spectral Data 760[nm]	0.00046399
Spectral Data 761[nm]	0.00048821
Spectral Data 762[nm]	0.00069893
Spectral Data 763[nm]	0.00106381
Spectral Data 764[nm]	0.00145023
Spectral Data 765[nm]	0.00171832
Spectral Data 766[nm]	0.00173122
Spectral Data 767[nm]	0.00146348

Spectral Data 768[nm]	0.00103058
Spectral Data 769[nm]	0.00055708
Spectral Data 770[nm]	0.00016541
Spectral Data 771[nm]	0
Spectral Data 772[nm]	0
Spectral Data 773[nm]	0
Spectral Data 774[nm]	0
Spectral Data 775[nm]	0
Spectral Data 776[nm]	1.56E-05
Spectral Data 777[nm]	0.00015811
Spectral Data 778[nm]	0.00029369
Spectral Data 779[nm]	0.00040515
Spectral Data 780[nm]	0.00047827

TM-30 Color Vector Graphic   Reference Illu Reference Illu Measured Illu Measured Illuminant y