# Spectral Irradiance Report

## Sample Information:

Sample Name:

Sample Model:

Sample Number:

Manufacturer:EVERFINE

Test date:2026-05-25_10-38-38

Tester:

## Device State:

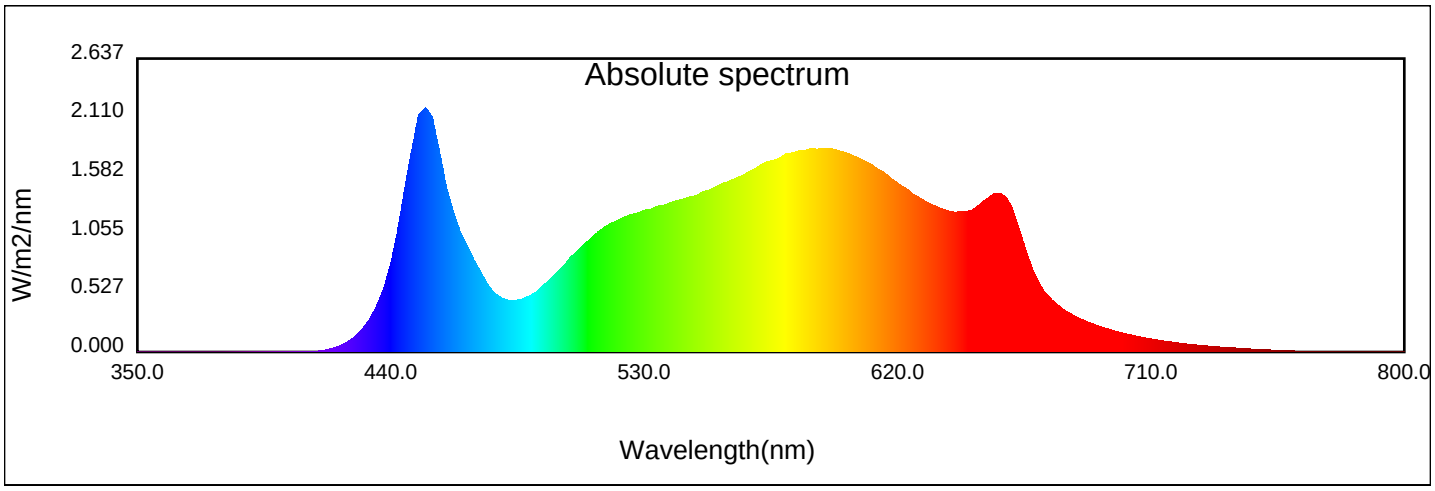
Test Device:PLA-30

Integration time: 0.6ms

Average times:1

AD lp:40941.5

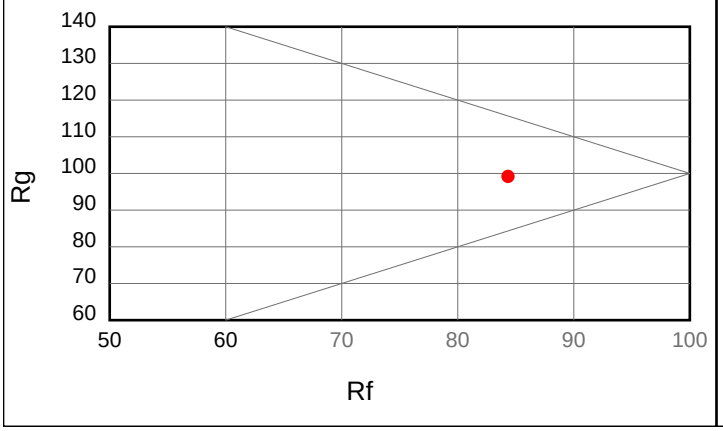
## Parameters:



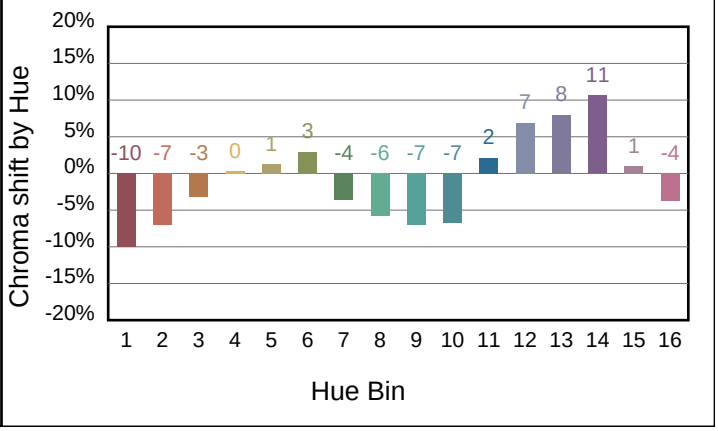

| Items | value | Items | value | Items | value |
|---|---|---|---|---|---|
| PPFD(umol/m²/s) | 1408.6 | PPFD(400-500) | 243.0 | PPFD(500-600) | 635.1 |
| PPFD(600-700) | 525.1 | PPFD(700-800) | 2.4E1 | Illuminance Ev(lx) | 104104.57 |
| Irradiance Ee(W/m²) | 3.1011E2 | Erb_Ratio | 1.5734 | PPFDf(umol/m²/s) | 2.4E1 |
| Eb(W/m²) | 68.191 | Ey(W/m²) | 143.27 | Er(W/m²) | 107.29 |
| E(fc) | 9675.15 | Ee(W/m²)(380~760nm) | 3.224E2 | S/P | 1.669 |
| x | 0.3818 | y | 0.3704 | u' | 0.2286 |
| v' | 0.4990 | CCT(K) | 3914 | Duv | -0.00338 |
| Lp(nm) | 452.0 | Ld(nm) | 581.4 | FWHM(nm) | 22.2 |
| Purity(%) | 25.7 | SDCM | 5.1 | Ra | 84.5 |
| R1 | 83.4 | R2 | 90.3 | R3 | 93.9 |
| R4 | 82.8 | R5 | 83.1 | R6 | 85.0 |
| R7 | 87.4 | R8 | 70.3 | R9 | 25.8 |
| R10 | 76.1 | R11 | 81.4 | R12 | 61.0 |
| R13 | 85.3 | R14 | 96.6 | R15 | 79.9 |
| E1(W/m²)(400~700nm) | 318.49 | E2(W/m²)(380~780nm) | 322.50 | Ech-A(W/) | 45.403 |
| Ech-B(W/) | 67.503 | Ef(W/) | 3.9502 | IP | 40941.5 |
| Integrating time(ms) | 0.6 | CQS | 74.35 | GAI_EES | 49.33 |
| GAI_BB_8 | 63.69 | GAI_BB_15 | 73.47 | Rf | 84 |
| Rg | 97 | X(CIE1931) | 107295.4922 | Y(CIE1931) | 104104.5703 |
| Z(CIE1931) | 69626.3984 | Central WL(nm) | 453.4 | Centroid WL(nm) | 572.0 |
| PFD_rb_Ratio | 2.1760 | PFD(umol/m²/s) | 1.5E3 | PFDuv(umol/m²/s) | 0.0E0 |
| PFD_bg_Ratio | 0.39398 | PFD_rfr_Ratio | 23.608 | | |

Observer perspective:10°

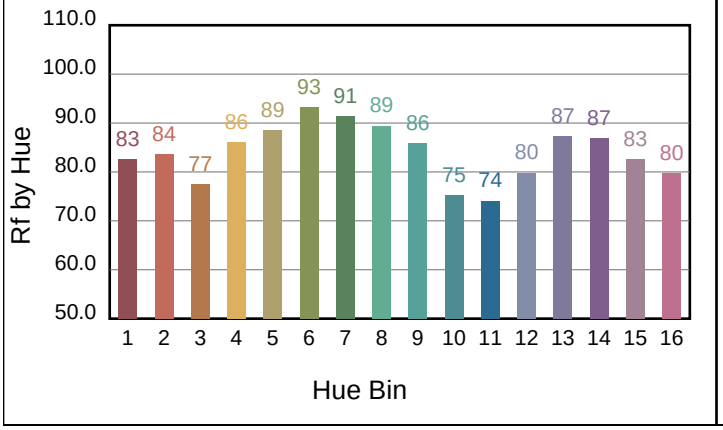
## Rf-Rg




## Chromaticity variation distribution

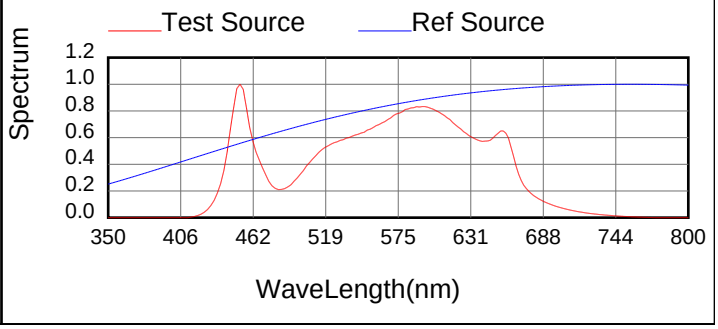



## Fidelity distribution

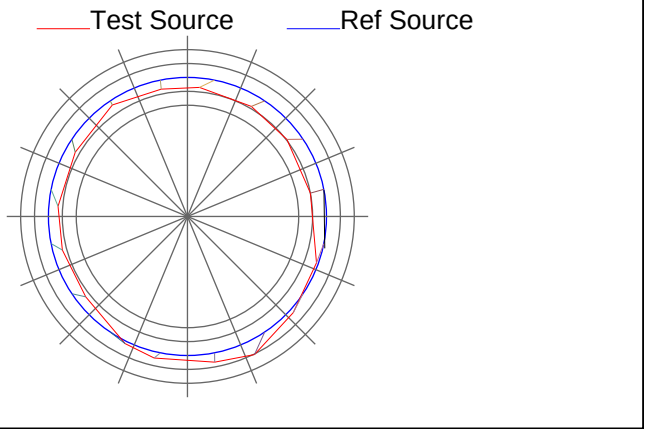



## Spectrum power distribution

Rf:83.751 CCT:3914.4 K u':0.2286
Rg:97.379 Duv:-0.003 v':0.4990




## Color Vector Graphic



## Data table

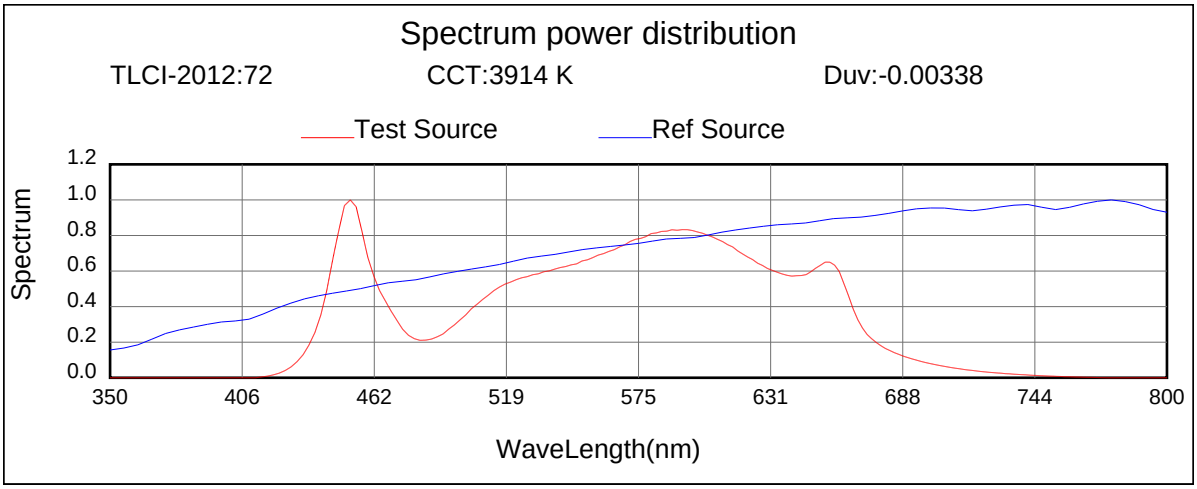
| | | | Graphic shift(%) | |
|---|---|---|---|---|
| Hue Bin | Hue Angle | Rf | Chroma | Hue |
| 1 | 0.0° - 22.5° | 83 | -10 | -0 |
| 2 | 22.5° - 45.0° | 84 | -7 | 6 |
| 3 | 45.0° - 67.5° | 77 | -3 | 12 |
| 4 | 67.5° - 90.0° | 86 | 0 | 8 |
| 5 | 90.0° - 112.5° | 89 | 1 | 5 |
| 6 | 112.5° - 135.0° | 93 | 3 | -2 |
| 7 | 135.0° - 157.5° | 91 | -4 | -3 |
| 8 | 157.5° - 180.0° | 89 | -6 | -0 |
| 9 | 180.0° - 202.5° | 86 | -7 | 7 |
| 10 | 202.5° - 225.0° | 75 | -7 | 14 |
| 11 | 225.0° - 247.5° | 74 | 2 | 18 |
| 12 | 247.5° - 270.0° | 80 | 7 | 9 |
| 13 | 270.0° - 292.5° | 87 | 8 | -3 |
| 14 | 292.5° - 315.0° | 87 | 11 | -5 |
| 15 | 315.0° - 337.5° | 83 | 1 | -12 |
| 16 | 337.5° - 360.0° | 80 | -4 | -12 |

## Suggest table for color calibration

| Sector | Lightness | Chroma | Hue |
|---|---|---|---|
| R | 4 | 2 | 1 |
| R/Y | 0 | 1 | -3 |
| Y | -1 | -1 | -3 |
| Y/G | -1 | -1 | 0 |
| G | -1 | -1 | 2 |
| G/C | -0 | -0 | 2 |
| C | 1 | 1 | 2 |
| C/B | 2 | -0 | -3 |
| B | -0 | -2 | -3 |
| B/M | 2 | -1 | 4 |
| M | 3 | -0 | 4 |
| M/R | 4 | 1 | 5 |

Color block




Spectrum power distribution
TLCI-2012:72
CCT:3914 K
Duv:-0.00338
Test Source
Ref Source
Spectrum
1.2
1.0
0.8
0.6
0.4
0.2
0.0
350
406
462
519
575
631
688
744
800
WaveLength(nm)