

Spectrum Test Report

Sample :
Specification : S012144BJ5PZ G
Sample No. : 10103-0666-00
Manufacturer : iPixel LED

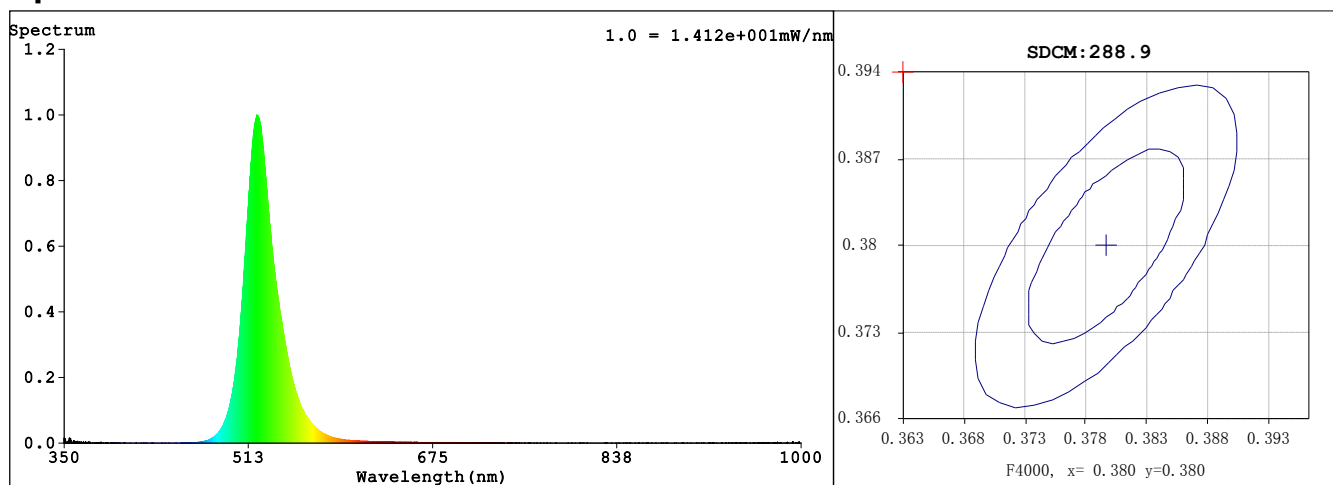
Date : 2025-07-29
Sam. Status : 1M
Instrument : HAAS-2000(EVERFINE)
Test by : DNJ

Test Condition

Temperature : 25.3 °C
WL Range : 350nm-1000nm
Test Mode : Fast Test

RH : 65.0%
IP : 53579 (82%)
T : 419 ms
Sensitivity : High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.1698$ $y = 0.7393$ / $u' = 0.0589$ $v' = 0.5770$ ($duv=1.59e-01$)

CCT= 7754K Prpc WL: $L_d=528.1nm$ Purity=84.4%

Peak WL: $L_p=520nm$ FWHM: $=28.1nm$ Ratio:R=0.4% G=98.3% B=1.3%

Render Index: $R_a = 0.0$ TM30:Rf=1 Rg=6

R1 =0 R2 =0 R3 =0 R4 =0 R5 =0 R6 =0 R7 =0

R8 =0 R9 =0 R10=0 R11=0 R12=0 R13=0 R14=33 R15=0

LEVEL:OUT

TLCI Parameters: TLCI = 2.9

Photometric & Radiometric Parameters

Flux = 241.21 lm Eff. : 0.00 lm/W Fe = 485.54 mW

EEL: 0.00000 A++ Highest

EEC: -

Electrical parameters

V = 0 V I = 0 A P = 0 W PF = 1.000

Freq=0.00 Hz

GBT5702

iPixel LED

<https://www.ipixelleds.com>

Spectrum Test Report

Sample :
Specification : S012144BJ5PZ R
Sample No. : 10103-0666-00
Manufacturer : iPixel LED

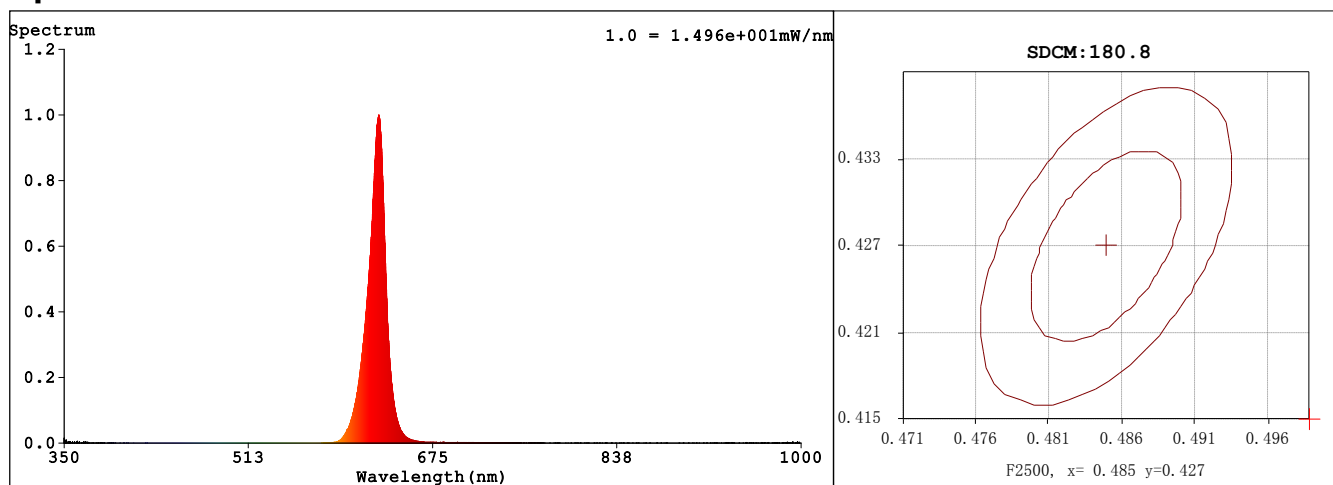
Date : 2025-07-29
Sam. Status : 1M
Instrument : HAAS-2000(EVERFINE)
Test by : DNJ

Test Condition

Temperature : 25.3 °C
WL Range : 350nm-1000nm
Test Mode : Fast Test

RH : 65.0%
IP : 47551 (73%)
T : 419 ms
Sensitivity : High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.6924$ $y = 0.3074$ / $u' = 0.5222$ $v' = 0.5216$ ($duv = -7.46e-02$)

CCT= 1001K Prpc WL: $L_d = 620.5nm$ Purity=100.0%

Peak WL: $L_p = 628nm$ FWHM: $= 15.4nm$ Ratio: R=98.0% G=2.0% B=0.0%

Render Index: $R_a = 23.8$ TM30: $R_f = 1$ $R_g = 6569846823690655900000000000000000$

R1 =1 R2 =77 R3 =23 R4 =0 R5 =0 R6 =89 R7 =0

R8 =0 R9 =0 R10 =70 R11 =0 R12 =78 R13 =26 R14 =55 R15 =0

LEVEL:OUT

TLCI Parameters: TLCI = 1.5

Photometric & Radiometric Parameters

Flux = 61.983 lm Eff. : 0.00 lm/W $F_e = 281.54 mW$

EEI: 0.00000 A++ Highest

EEC: -

Electrical parameters

V = 0 V I = 0 A P = 0 W PF = 1.000

Freq=0.00 Hz

GBT5702

iPixel LED

<https://www.ipixelleds.com>

Spectrum Test Report

Sample :
Specification : S012144BJ5PZ B
Sample No. : 10103-0666-00
Manufacturer : iPixel LED

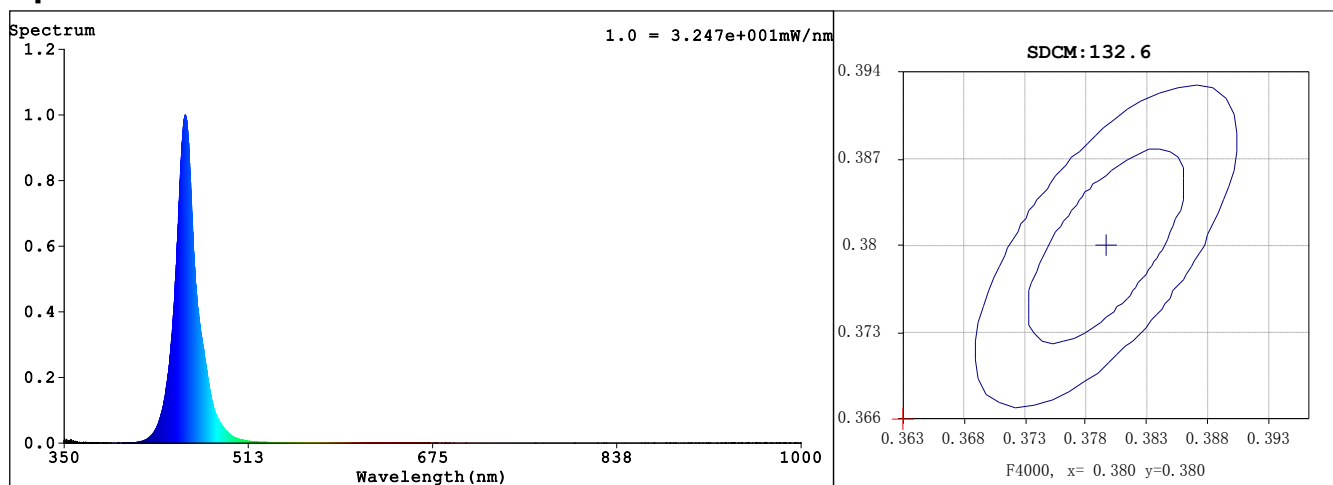
Date : 2025-07-29
Sam. Status : 1M
Instrument : HAAS-2000(EVERFINE)
Test by : DNJ

Test Condition

Temperature : 25.3 °C
WL Range : 350nm-1000nm
Test Mode : Fast Test

RH : 65.0%
IP : 44149 (67%)
T : 209 ms
Sensitivity : High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.1462$ $y = 0.0386$ / $u' = 0.1844$ $v' = 0.1095$ ($duv = -1.93e-01$)

CCT $\geq 100000K$ Prcp WL: $L_d = 461.3nm$ Purity = 97.8%

Peak WL: $L_p = 457nm$ FWHM: $= 17.5nm$ Ratio: R=1.3% G=11.5% B=87.2%

Render Index: $R_a = 1.3$ TM30: $R_f = 0$ $R_g = 46$

R1 = 0 R2 = 0 R3 = 0 R4 = 0 R5 = 10 R6 = 0 R7 = 0

R8 = 0 R9 = 0 R10 = 0 R11 = 0 R12 = 0 R13 = 0 R14 = 0 R15 = 9

LEVEL: OUT

TLCI Parameters: TLCI = 0.9

Photometric & Radiometric Parameters

Flux = 36.865 lm Eff. : 0.00 lm/W $\Phi_e = 753.17 mW$

EEL: 0.00000 A++ Highest

EEC: -

Electrical parameters

V = 0 V I = 0 A P = 0 W PF = 1.000

Freq = 0.00 Hz

GBT5702

iPixel LED

<https://www.ipixelleds.com>

Spectrum Test Report

Sample :
Specification : S012144BJ5PZ 3000K
Sample No. : 10103-0666-00
Manufacturer : iPixel LED

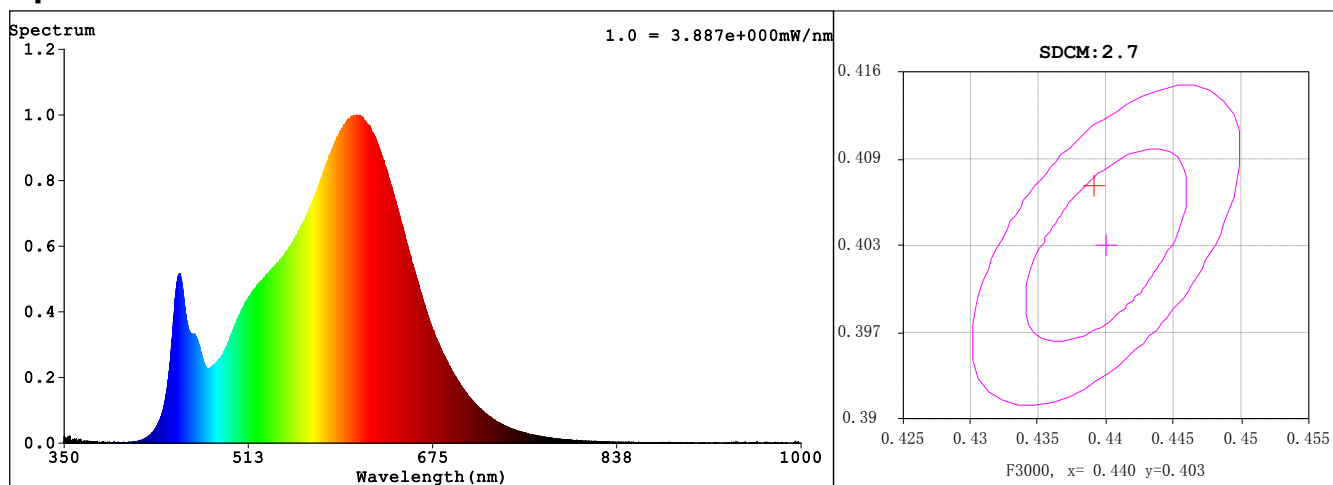
Date : 2025-07-29
Sam. Status : 1M
Instrument : HAAS-2000(EVERFINE)
Test by : DNJ

Test Condition

Temperature : 25.3 °C
WL Range : 350nm-1000nm
Test Mode : Fast Test

RH : 65.0%
IP : 47853 (73%)
T : 1492 ms
Sensitivity : High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: x = 0.4391 y = 0.4074 / u' = 0.2505 v' = 0.5230 (duv=1.04e-03)

CCT= 2991K Prcp WL: Ld=582.5nm Purity=54.1%

Peak WL: Lp=608nm FWHM: =134.7nm Ratio:R=23.5% G=73.7% B=2.8%

Render Index: Ra = 86.4 TM30:Rf=87 Rg=95

R1 =86 R2 =94 R3 =96 R4 =85 R5 =86 R6 =94 R7 =85

R8 =65 R9 =23 R10=86 R11=86 R12=76 R13=88 R14=99 R15=78

LEVEL:OUT

TLCI Parameters: TLCI = 77.7

Photometric & Radiometric Parameters

Flux = 190.31 lm Eff. : 0.00 lm/W Fe = 593.68 mW

EEL: 0.00000 A++ Highest

EEC: -

Electrical parameters

V = 0 V I = 0 A P = 0 W PF = 1.000

Freq=0.00 Hz

GBT5702

iPixel LED

<https://www.ipixelleds.com>

Spectrum Test Report

Sample :
Specification : S012144BJ5PZ 6500K
Sample No. : 10103-0666-00
Manufacturer : iPixel LED

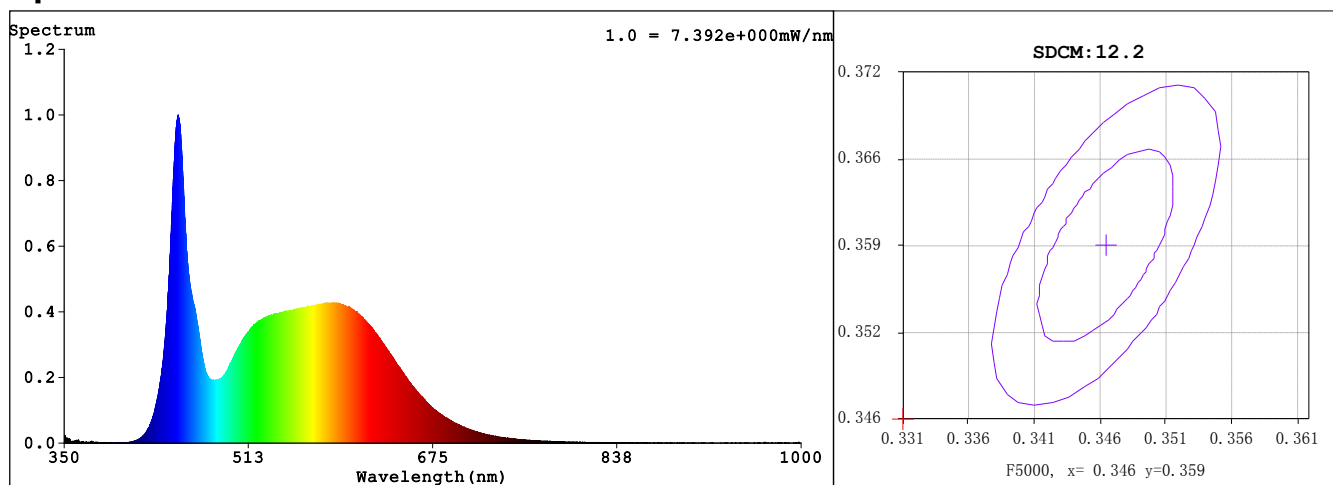
Date : 2025-07-29
Sam. Status : 1M
Instrument : HAAS-2000(EVERFINE)
Test by : DNJ

Test Condition

Temperature : 25.3 °C
WL Range : 350nm-1000nm
Test Mode : Fast Test

RH : 65.0%
IP : 52315 (80%)
T : 1151 ms
Sensitivity : High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.3293$ $y = 0.3302$ / $u' = 0.2089$ $v' = 0.4714$ ($duv = -4.21e-03$)

CCT= 5649K Prpc WL: $L_d = 481.1nm$ Purity=1.7%

Peak WL: $L_p = 451nm$ FWHM: $= 18.0nm$ Ratio: $R = 15.7\%$ $G = 79.1\%$ $B = 5.1\%$

Render Index: $R_a = 87.1$ TM30: $R_f = 84$ $R_g = 99$

$R_1 = 88$ $R_2 = 91$ $R_3 = 91$ $R_4 = 88$ $R_5 = 88$ $R_6 = 85$ $R_7 = 89$

$R_8 = 77$ $R_9 = 33$ $R_{10} = 77$ $R_{11} = 88$ $R_{12} = 63$ $R_{13} = 89$ $R_{14} = 95$ $R_{15} = 86$

LEVEL:OUT

TLCI Parameters: TLCI = 75.0

Photometric & Radiometric Parameters

Flux = 204.68 lm Eff. : 0.00 lm/W $F_e = 671.90 mW$

EEI: 0.00000 A++ Highest

EEC: -

Electrical parameters

$V = 0 V$ $I = 0 A$ $P = 0 W$ PF = 1.000

Freq=0.00 Hz

GBT5702

iPixel LED

<https://www.ipixelleds.com>

Spectrum Test Report

Sample :
Specification : S012144BJ5PZ Mixed
Sample No. : 10103-0666-00
Manufacturer : iPixel LED

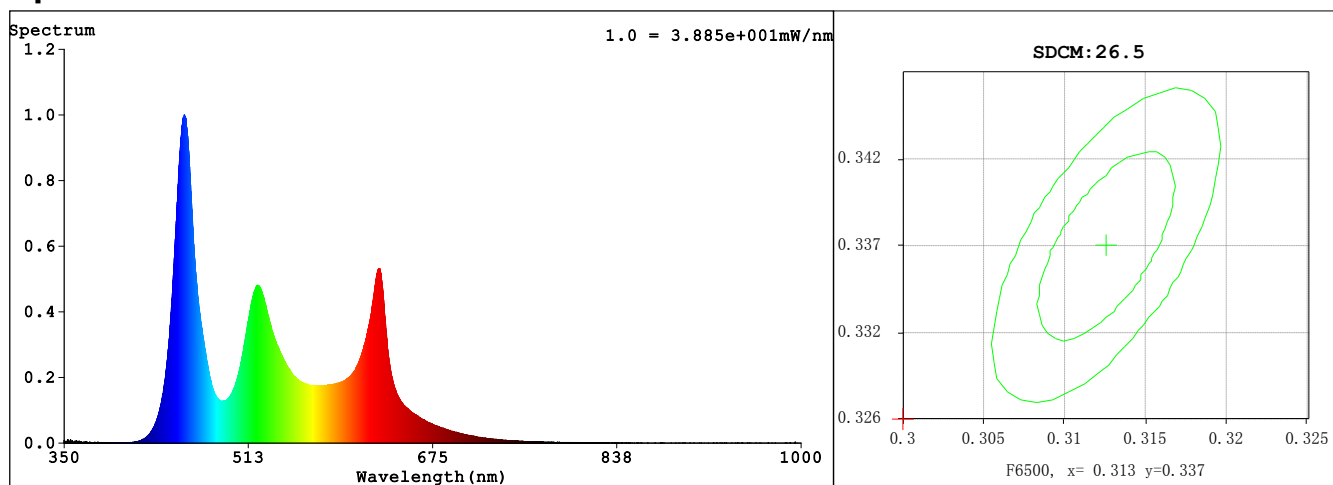
Date : 2025-07-29
Sam. Status : 1M
Instrument : HAAS-2000(EVERFINE)
Test by : DNJ

Test Condition

Temperature : 25.3 °C
WL Range : 350nm-1000nm
Test Mode : Fast Test

RH : 65.0%
IP : 53576 (82%)
T : 213 ms
Sensitivity : High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.2889$ $y = 0.2854$ / $u' = 0.1977$ $v' = 0.4393$ ($duv = -6.77e-03$)

CCT= 9254K Prpc WL: $L_d = 475.4nm$ Purity=19.7%

Peak WL: $L_p = 456nm$ FWHM: $= 20.3nm$ Ratio: R=18.8% G=74.2% B=7.0%

Render Index: $R_a = 78.7$ TM30: $R_f = 83$ $R_g = 112$

R1 =69 R2 =89 R3 =85 R4 =72 R5 =78 R6 =86 R7 =88

R8 =63 R9 =0 R10=81 R11=60 R12=65 R13=73 R14=88 R15=63

LEVEL:OUT

TLCI Parameters: TLCI = 81.9

Photometric & Radiometric Parameters

Flux = 731.70 lm Eff. : 0.00 lm/W $F_e = 2.7722 W$

EEL: 0.00000 A++ Highest

EEC: -

Electrical parameters

V = 0 V I = 0 A P = 0 W PF = 1.000

Freq=0.00 Hz

GBT5702

iPixel LED

<https://www.ipixelleds.com>

Spectrum Test Report

Sample :
Specification : S012144AC5PZ G
Sample No. : 20201-0243-00
Manufacturer : iPixel LED

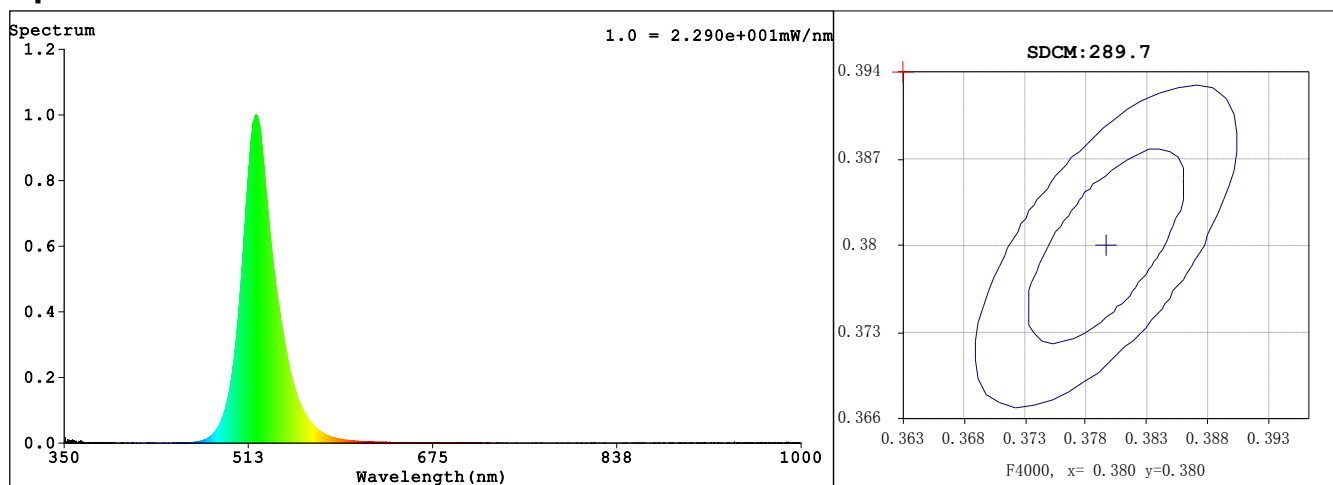
Date : 2026-02-24
Sam. Status : 1M
Instrument : HAAS-2000(EVERFINE)
Test by : DNJ

Test Condition

Temperature : 25.3 °C
WL Range : 350nm-1000nm
Test Mode : Fast Test

RH : 65.0%
IP : 54059 (82%)
T : 276 ms
Sensitivity : High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.1623$ $y = 0.7321$ / $u' = 0.0566$ $v' = 0.5749$ (duv=1.60e-01)

CCT= 7913K Prpc WL: Ld=526.2nm Purity=81.6%

Peak WL: Lp=519nm FWHM: =29.6nm Ratio:R=0.3% G=97.8% B=1.9%

Render Index: Ra = 0.0 TM30:Rf=1 Rg=6

R1 =0 R2 =0 R3 =0 R4 =0 R5 =0 R6 =0 R7 =0

R8 =0 R9 =0 R10=0 R11=0 R12=0 R13=0 R14=36 R15=0

LEVEL:OUT

TLCI Parameters: TLCI = 2.8

Photometric & Radiometric Parameters

Flux = 397.70 lm Eff. : 75.29 lm/W Fe = 823.65 mW

EEL: 0.14261 A+

EEC: 75.3 G

Electrical parameters

V = 24.00 V I = 0.2201 A P = 5.282 W PF = 1.000

Freq=0.00 Hz

GBT5702

iPixel LED

<https://www.ipixelleds.com>

Spectrum Test Report

Sample :
Specification : S012144AC5PZ R
Sample No. : 20201-0243-00
Manufacturer : iPixel LED

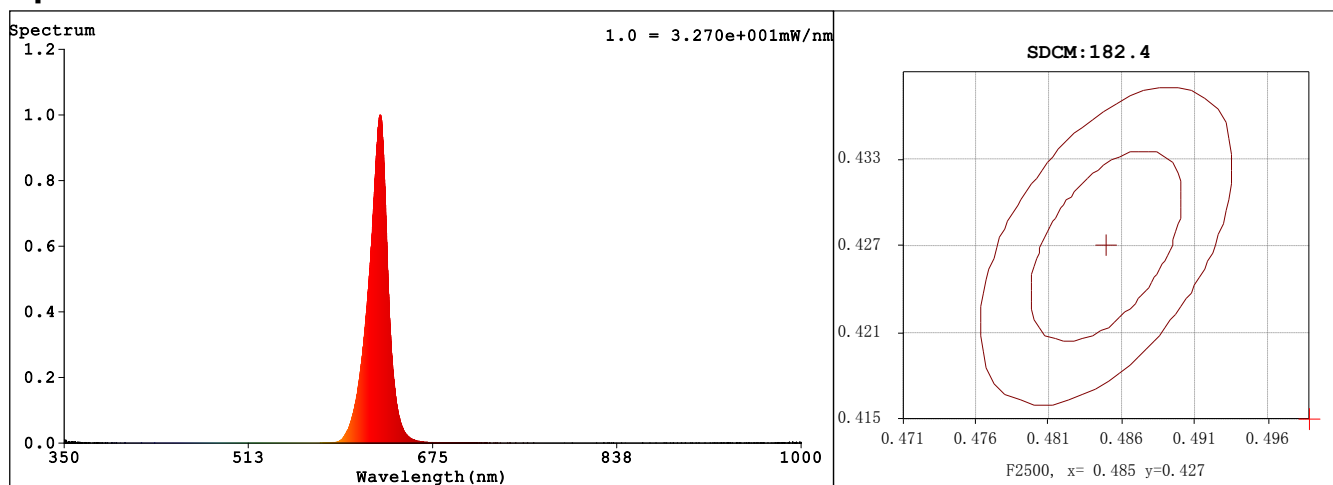
Date : 2026-02-24
Sam. Status : 1M
Instrument : HAAS-2000(EVERFINE)
Test by : DNJ

Test Condition

Temperature : 25.3 °C
WL Range : 350nm-1000nm
Test Mode : Fast Test

RH	: 65.0%
IP	: 53803 (82%)
T	: 226 ms
Sensitivity	: High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.6938$ $y = 0.3057$ / $u' = 0.5255$ $v' = 0.5210$ ($duv = -7.80e-02$)

CCT= 1001K Prcp WL: Ld=621.3nm Purity=99.9%

Peak WL: Lp=629nm FWHM: =16.7nm Ratio:R=98.3% G=1.7% B=0.0%

Render Index: Ra = 24.0 TM30:Rf=1 Rg=2449784302542624700000000000000000

R1 =1 R2 =78 R3 =24 R4 =0 R5 =0 R6 =90 R7 =0

R8 = 0 R9 = 0 R10 = 71 R11 = 0 R12 = 79 R13 = 27 R14 = 55 R15 = 0

LEVEL:OUT

TLCI Parameters: TLCI = 1.4

Photometric & Radiometric Parameters

Flux = 139.37 lm Eff. : 32.09 lm/W Fe = 655.07 mW

EEI: 0.25228 B

EEC: 32.1 G

Electrical parameters

$$V = 24.00 \text{ V} \quad I = 0.1810 \text{ A} \quad P = 4.344 \text{ W} \quad \text{PF} = 1.000$$

Freq=0.00 Hz

GBT5702

iPixel LED

<https://www.ipixelleds.com>

Spectrum Test Report

Sample :
Specification : S012144AC5PZ B
Sample No. : 20201-0243-00
Manufacturer : iPixel LED

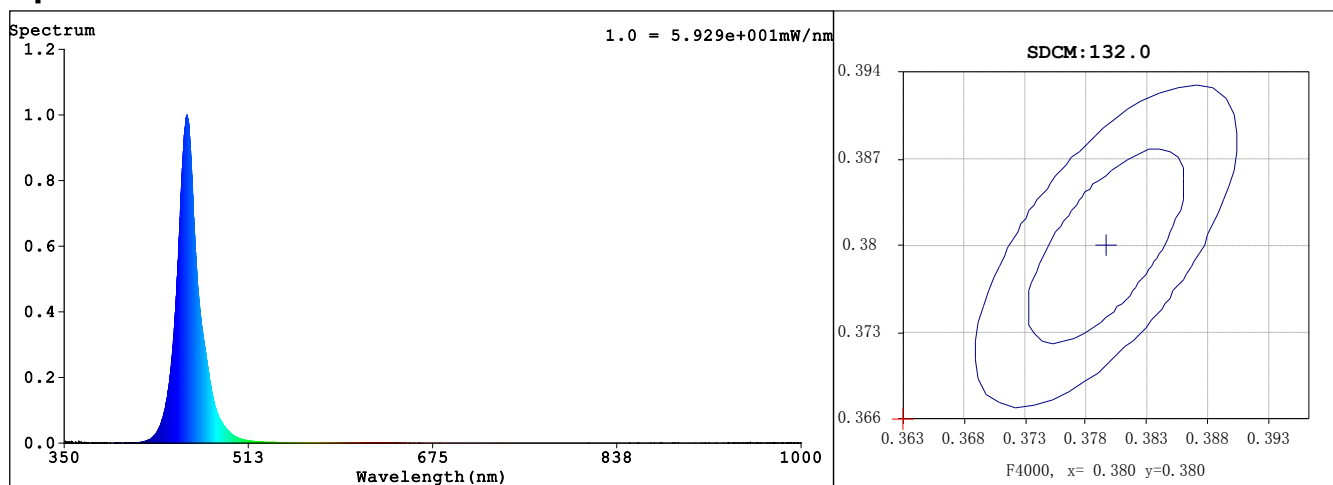
Date : 2026-02-24
Sam. Status : 1M
Instrument : HAAS-2000(EVERFINE)
Test by : DNJ

Test Condition

Temperature : 25.3 °C
WL Range : 350nm-1000nm
Test Mode : Fast Test

RH : 65.0%
IP : 41890 (64%)
T : 113 ms
Sensitivity : High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.1436$ $y = 0.0421$ / $u' = 0.1785$ $v' = 0.1177$ ($duv = -1.87e-01$)

CCT $\geq 100000K$ Prcp WL: $L_d = 463.0nm$ Purity = 97.7%

Peak WL: $L_p = 458nm$ FWHM: $= 17.8nm$ Ratio: $R = 0.7\%$ $G = 12.5\%$ $B = 86.8\%$

Render Index: $R_a = 0.7$ TM30: $R_f = 0$ $R_g = 48$

$R_1 = 0$ $R_2 = 0$ $R_3 = 0$ $R_4 = 0$ $R_5 = 6$ $R_6 = 0$ $R_7 = 0$
 $R_8 = 0$ $R_9 = 0$ $R_{10} = 0$ $R_{11} = 0$ $R_{12} = 0$ $R_{13} = 0$ $R_{14} = 0$ $R_{15} = 3$

LEVEL:OUT

TLCI Parameters: TLCI = 0.8

Photometric & Radiometric Parameters

Flux = 71.715 lm Eff. : 13.65 lm/W $Fe = 1.3638 W$

EEL: 0.47903 B

EEC: 13.7 G

Electrical parameters

$V = 24.00 V$ $I = 0.2189 A$ $P = 5.253 W$ PF = 1.000

Freq = 0.00 Hz

GBT5702

iPixel LED

<https://www.ipixelleds.com>

Spectrum Test Report

Sample :
Specification : S012144AC5PZ 3000K
Sample No. : 20201-0243-00
Manufacturer : iPixel LED

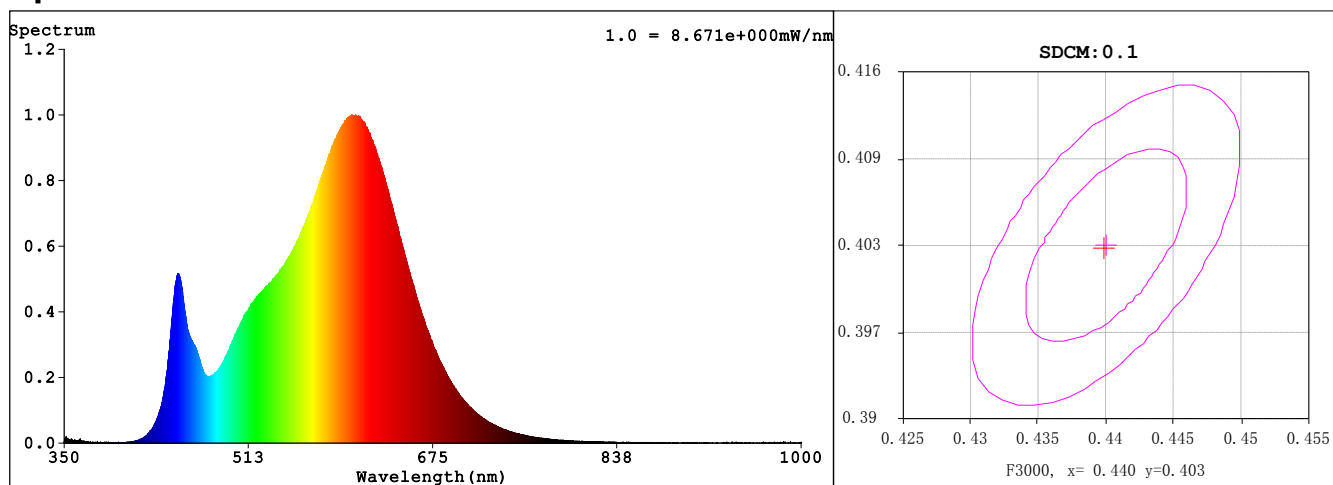
Date : 2026-02-24
Sam. Status : 1M
Instrument : HAAS-2000(EVERFINE)
Test by : DNJ

Test Condition

Temperature : 25.3 °C
WL Range : 350nm-1000nm
Test Mode : Fast Test

RH : 65.0%
IP : 53551 (82%)
T : 777 ms
Sensitivity : High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.4398$ $y = 0.4028$ / $u' = 0.2530$ $v' = 0.5213$ ($duv = -8.88e-04$)

CCT= 2941K Prpc WL: $L_d = 583.4nm$ Purity=52.9%

Peak WL: $L_p = 604nm$ FWHM: $= 122.0nm$ Ratio: $R = 23.6\%$ $G = 73.7\%$ $B = 2.7\%$

Render Index: $R_a = 83.7$ TM30: $R_f = 85$ $R_g = 96$

$R_1 = 83$ $R_2 = 93$ $R_3 = 95$ $R_4 = 82$ $R_5 = 83$ $R_6 = 92$ $R_7 = 82$

$R_8 = 59$ $R_9 = 10$ $R_{10} = 84$ $R_{11} = 82$ $R_{12} = 76$ $R_{13} = 85$ $R_{14} = 98$ $R_{15} = 75$

LEVEL:OUT

TLCI Parameters: $TLCI = 70.1$

Photometric & Radiometric Parameters

Flux = 412.88 lm Eff. : 82.12 lm/W $Fe = 1.2626 W$

EEI: 0.13192 A+

EEC: 82.1 G

Electrical parameters

$V = 24.00 V$ $I = 0.2095 A$ $P = 5.028 W$ $PF = 1.000$

Freq=0.00 Hz

GBT5702

iPixel LED

<https://www.ipixelleds.com>

Spectrum Test Report

Sample :
Specification : S012144AC5PZ 6500K
Sample No. : 20201-0243-00
Manufacturer : iPixel LED

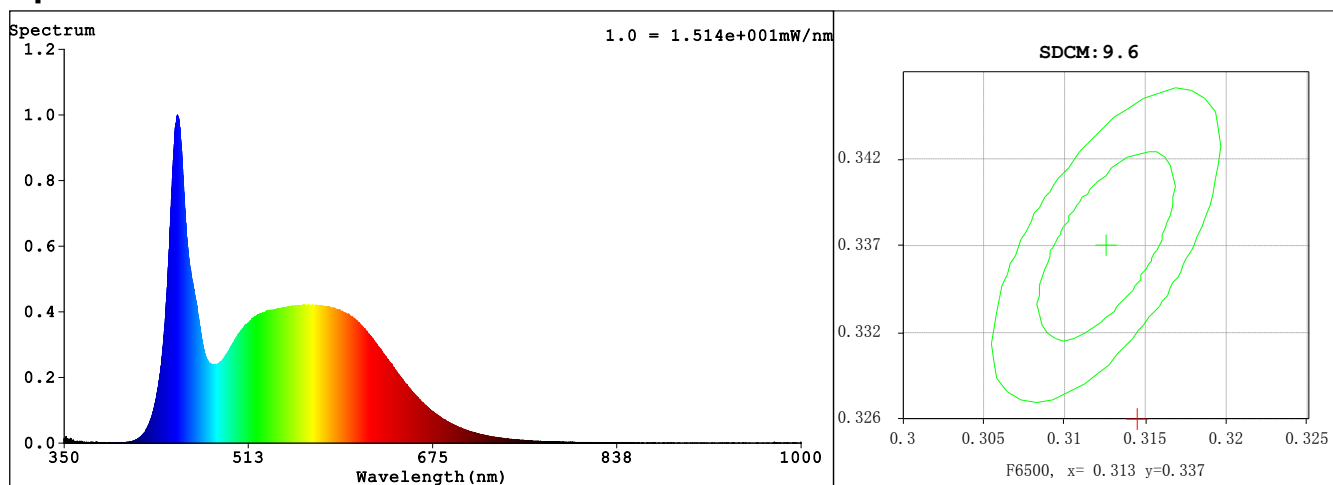
Date : 2026-02-24
Sam. Status : 1M
Instrument : HAAS-2000(EVERFINE)
Test by : DNJ

Test Condition

Temperature : 25.3 °C
WL Range : 350nm-1000nm
Test Mode : Fast Test

RH : 65.0%
IP : 52531 (80%)
T : 598 ms
Sensitivity : High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.3149$ $y = 0.3245$ / $u' = 0.2011$ $v' = 0.4662$ ($duv = -2.75e-04$)

CCT= 6417K Prpc WL: $L_d = 485.3nm$ Purity=6.9%

Peak WL: $L_p = 450nm$ FWHM: $= 21.2nm$ Ratio: R=14.4% G=79.8% B=5.8%

Render Index: $R_a = 86.8$ TM30: $R_f = 85$ $R_g = 97$

R1 =87 R2 =91 R3 =92 R4 =88 R5 =87 R6 =85 R7 =90

R8 =76 R9 =28 R10=77 R11=87 R12=63 R13=88 R14=96 R15=84

LEVEL:OUT

TLCI Parameters: TLCI = 76.6

Photometric & Radiometric Parameters

Flux = 423.43 lm Eff. : 84.42 lm/W $Fe = 1.4018 W$

EEI: 0.12908 A+

EEC: 84.4 G

Electrical parameters

V = 24.00 V I = 0.2090 A P = 5.016 W PF = 1.000

Freq=0.00 Hz

GBT5702

iPixel LED

<https://www.ipixelleds.com>

Spectrum Test Report

Sample :
Specification : S012144AC5PZ Mixed
Sample No. : 20201-0243-00
Manufacturer : iPixel LED

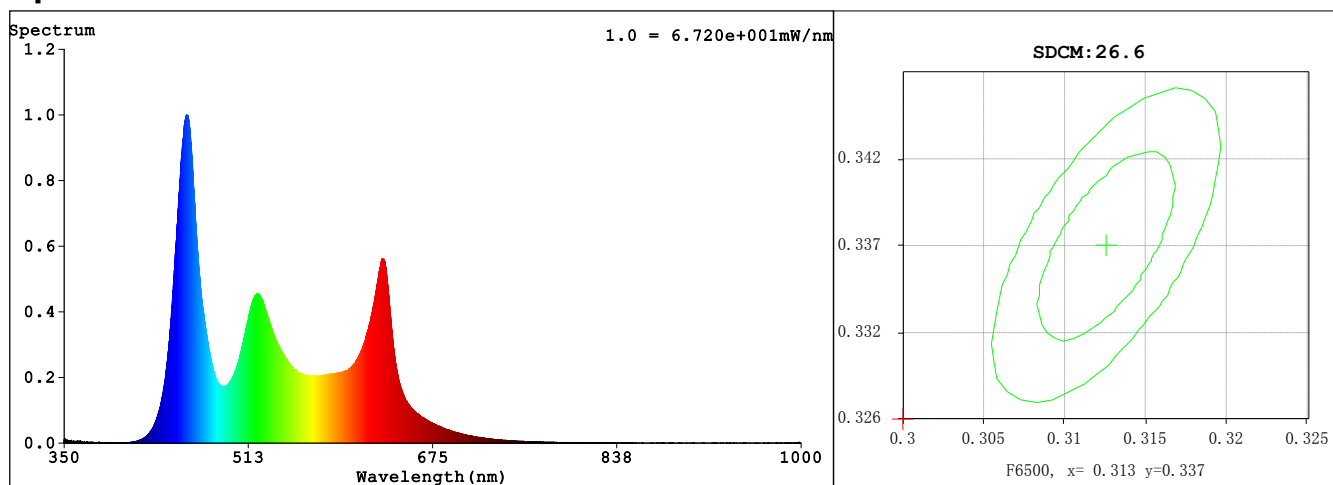
Date : 2026-02-24
Sam. Status : 1M
Instrument : HAAS-2000(EVERFINE)
Test by : DNJ

Test Condition

Temperature : 25.3 °C
WL Range : 350nm-1000nm
Test Mode : Fast Test

RH : 65.0%
IP : 53199 (81%)
T : 126 ms
Sensitivity : High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.2946$ $y = 0.2861$ / $u' = 0.2017$ $v' = 0.4406$ ($duv = -9.92e-03$)

CCT= 8635K Prpc WL: $L_d = 472.4nm$ Purity=17.9%

Peak WL: $L_p = 458nm$ FWHM: $= 22.9nm$ Ratio: R=19.3% G=73.0% B=7.7%

Render Index: $R_a = 76.6$ TM30: $R_f = 83$ $R_g = 111$

R1 =66 R2 =83 R3 =90 R4 =72 R5 =74 R6 =81 R7 =87

R8 =59 R9 =0 R10=69 R11=63 R12=67 R13=69 R14=91 R15=59

LEVEL:OUT

TLCI Parameters: TLCI = 83.3

Photometric & Radiometric Parameters

Flux = 1373.3 lm Eff. : 54.63 lm/W $Fe = 5.2758 W$

EEL: 0.24936 B

EEC: 54.6 G

Electrical parameters

V = 24.00 V I = 1.048 A P = 25.14 W PF = 1.000

Freq=0.00 Hz

GBT5702

iPixel LED

<https://www.ipixelleds.com>