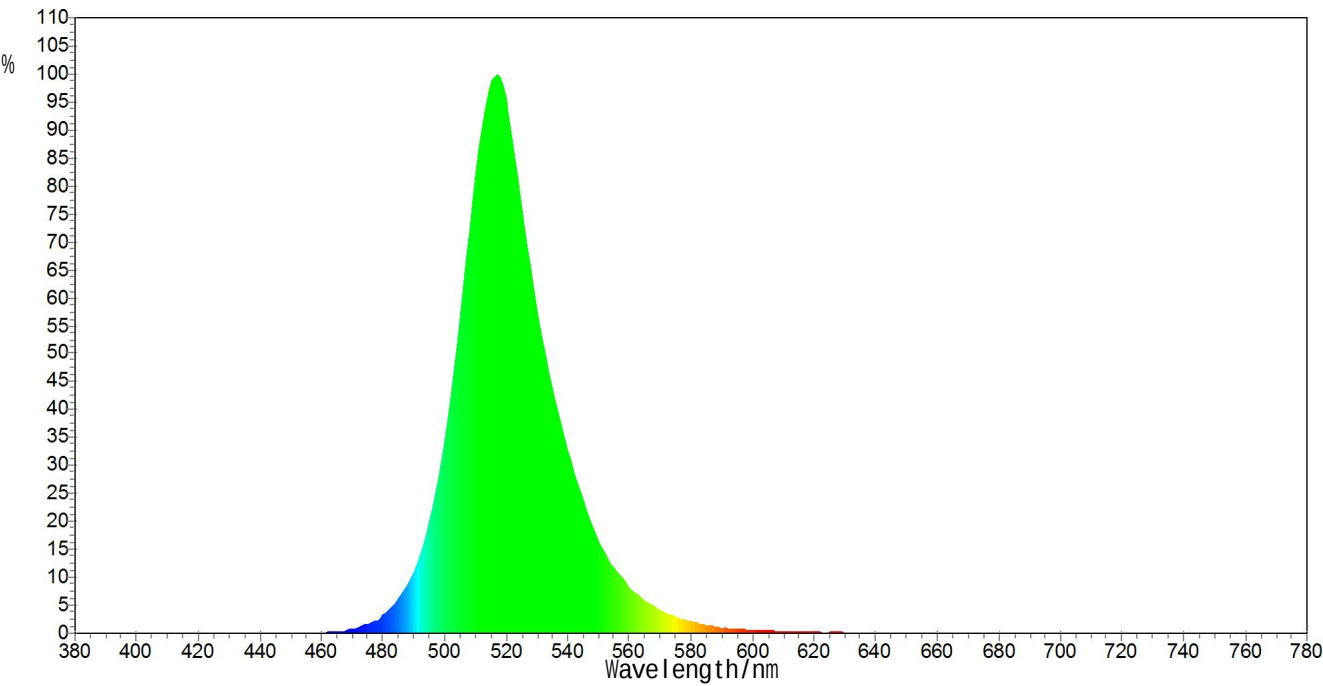
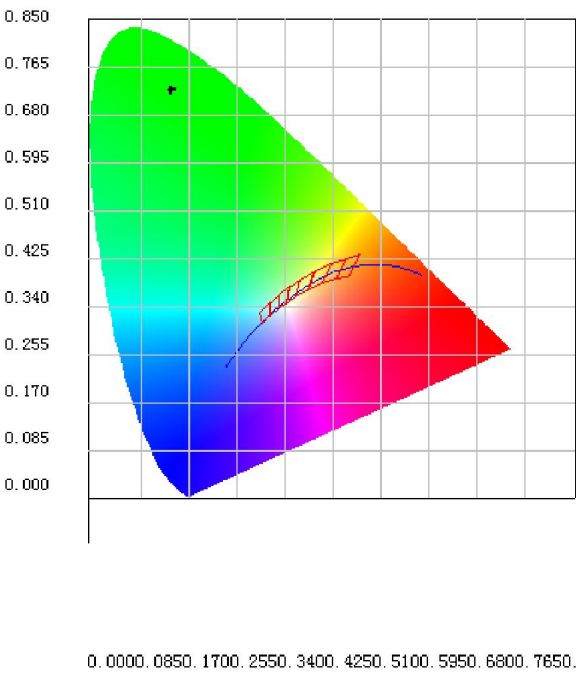


LED Photometric Colorimetric and Electric Test Report



Spectrum Parameters

x: 0.1448 y: 0.7282
u: 0.0506 v: 0.3816
WD: 522.6 nm WP: 517.4 nm
HW: 29.8 nm Purity: 0.791
CCT: 8315 K Ra: -29.0
SDCM : 381.89 DUV : 0.1648
Ratio: R%: 0.3 G%: 90.9 B%: 8.8
Kred 0.16% Kgreen 95.56% Kblue 4.28%
R1: -37.1 R2: -16.7 R3: -37.0
R4: -71.4 R5: -9.1 R6: -17.0
R7: -10.9 R8: -32.7 R9: -358.1
R10: -120.1 R11: -57.1 R12: -32.8
R13: -46.8 R14: 32.3 R15: -34.9
Rf : 0.0 Rg : 0.0



Electrical parameters

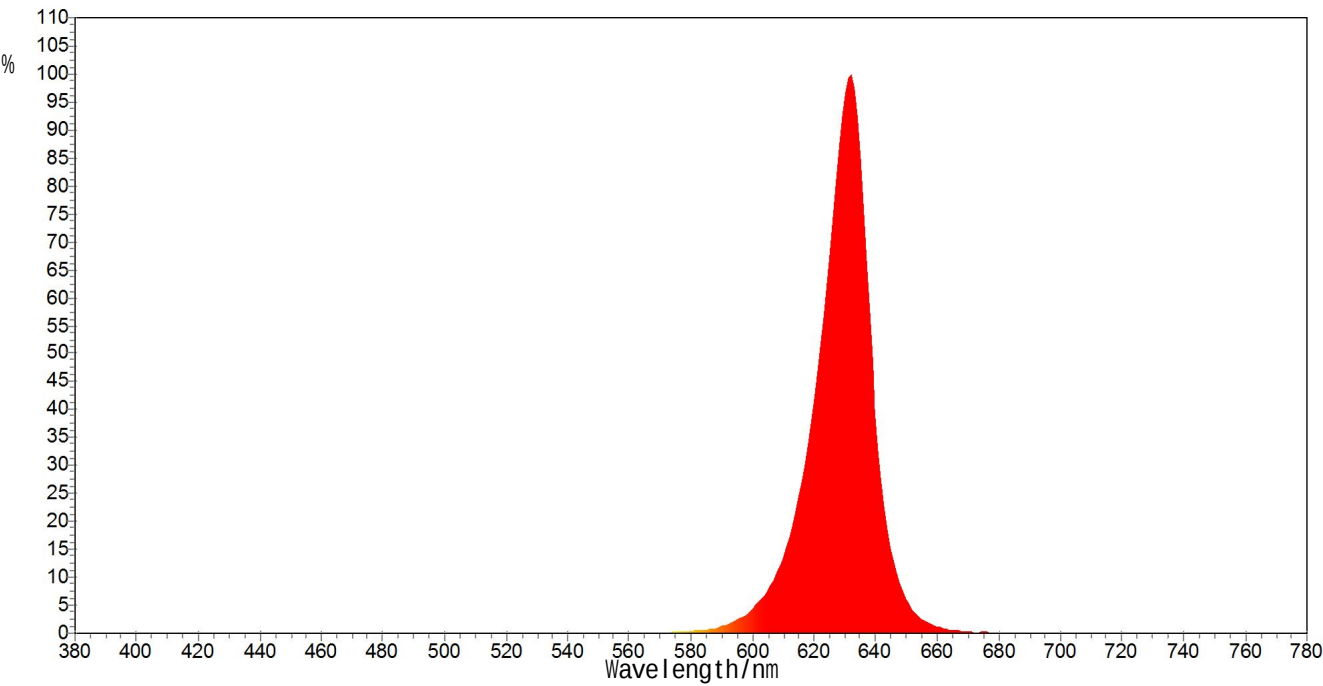
Flux: 558.387 lm E: 77.554 lm/w P: 1211.93 mw
I: 300.0 mA V: 24.00 V P: 7.200 w PF:

Memo:

1M

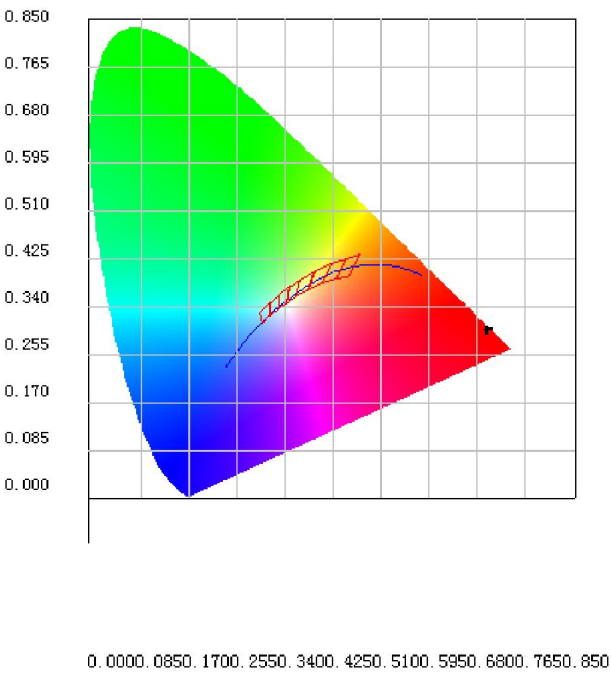
Product Mode:	S020120CC4PZ RGBW G	Item No:	10103-0343-00
Tester:	leixiaolan	Date:	2023-5-18
Temperature:	28 ()	Humidity:	71 (%)
Manufacturer:	ipixel LED Light CO.,Ltd	organization:	

LED Photometric Colorimetric and Electric Test Report



Spectrum Parameters

x: 0.6959 y: 0.3039
u: 0.5298 v: 0.3470
WD: 622.3 nm WP: 632.4 nm
HW: 17.1 nm Purity: 1.000
CCT: 4831 K Ra: -20.4
SDCM : 369.76 DUV : -0.0007
Ratio: R%: 98.4 G%: 1.6 B%: 0.0
Kred 94.48% Kgreen 5.52% Kblue 0.00%
R1: -65.0 R2: -10.3 R3: -5.6
R4: -66.0 R5: -46.7 R6: -31.0
R7: 57.4 R8: 4.1 R9: -266.7
R10: -97.3 R11: 19.2 R12: -74.3
R13: -71.7 R14: 33.3 R15: -24.8
Rf : 0.0 Rg : 0.0



Electrical parameters

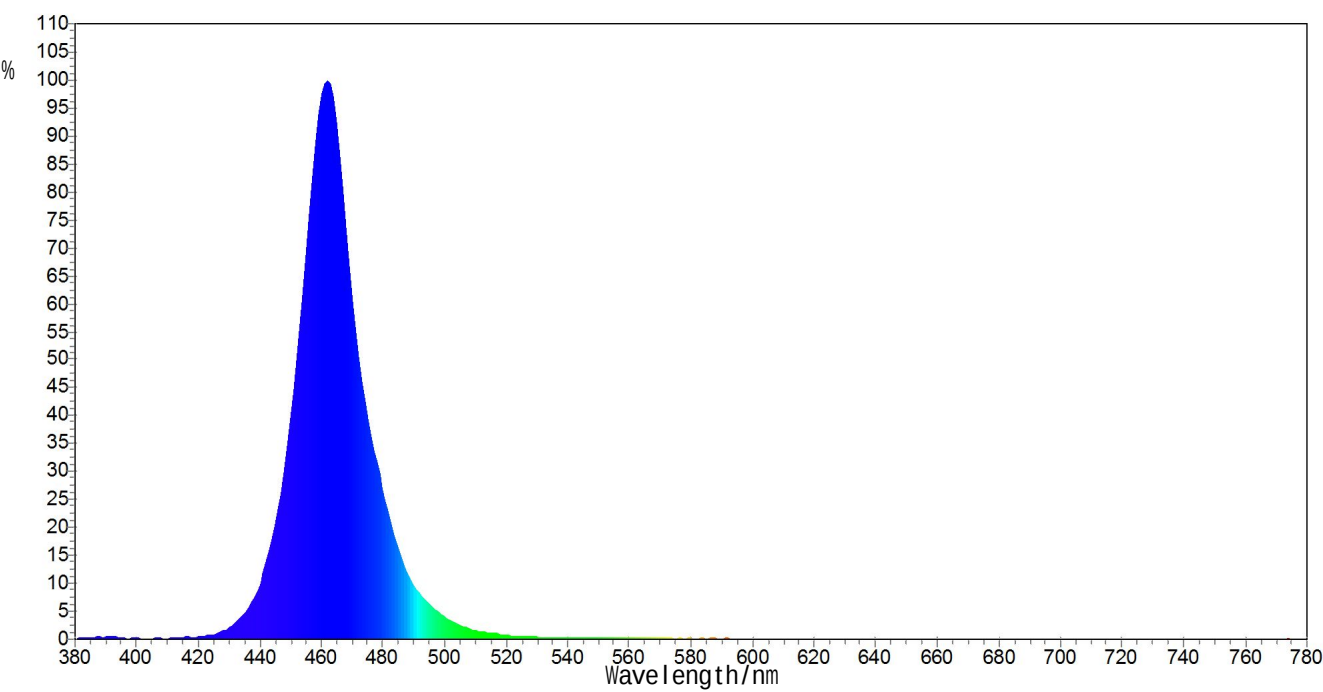
Flux: 184.443 lm E: 32.195 lm/w P: 936.56 mw
I: 238.7 mA V: 24.00 V P: 5.729 w PF:

Memo:

1M

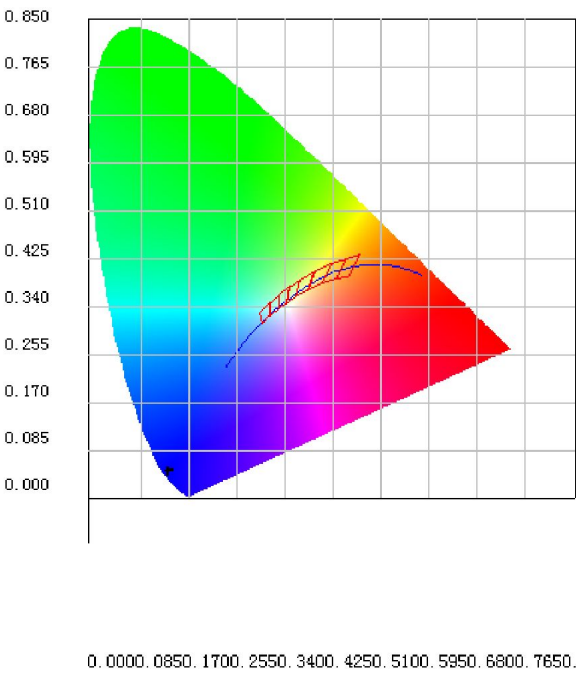
Product Mode:	S020120CC4PZ RGBW R	Item No:	10103-0343-00
Tester:	leixiaolan	Date:	2023-5-18
Temperature:	28 ()	Humidity:	71 (%)
Manufacturer:	ipixel LED Light CO.,Ltd	organization:	

LED Photometric Colorimetric and Electric Test Report



Spectrum Parameters

x: 0.1385 y: 0.0530
u: 0.1649 v: 0.0947
WD: 466.5 nm WP: 463.2 nm
HW: 20.3 nm Purity: 0.970
CCT: 1673 K Ra: -75.8
SDCM : 151.12 DUV : -0.1298
Ratio: R%: 0.4 G%: 2.1 B%: 97.5
Kred 0.60% Kgreen 13.42% Kblue 85.98%
R1: -67.2 R2: 24.4 R3: -97.0
R4: -141.7 R5: -70.6 R6: 5.6
R7: -68.3 R8: -191.6 R9: -485.9
R10: -72.0 R11: -68.0 R12: -98.8
R13: -32.6 R14: -10.6 R15: -100.1
Rf : 0.0 Rg : 0.0



Electrical parameters

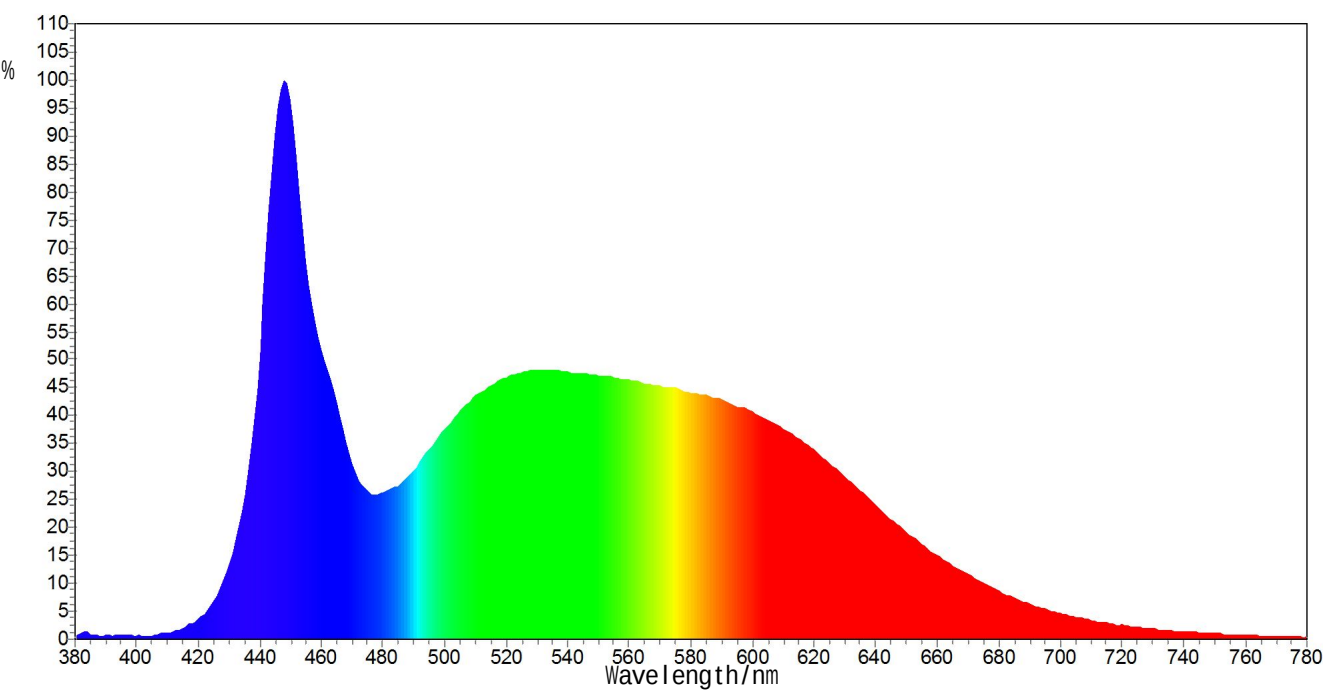
Flux: 113.551 lm E: 16.971 lm/w P: 2304.89 mw
I: 278.8 mA V: 24.00 V P: 6.691 w PF:

Memo:

1M

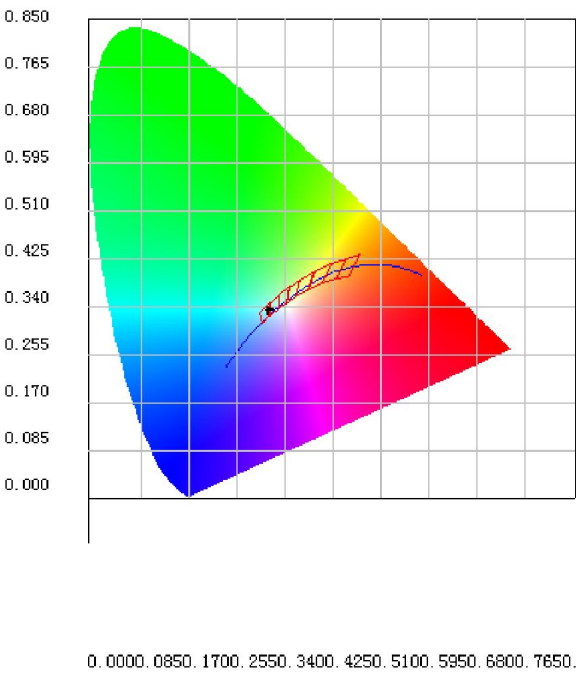
Product Mode:	S020120CC4PZ RGBW B	Item No:	10103-0343-00
Tester:	leixiaolan	Date:	2023-5-18
Temperature:	28 ()	Humidity:	71 (%)
Manufacturer:	ipixel LED Light CO.,Ltd	organization:	

LED Photometric Colorimetric and Electric Test Report



Spectrum Parameters

x: 0.3129 y: 0.3385
u: 0.1945 v: 0.3155
WD: 494.9 nm WP: 449.1 nm
HW: 21.5 nm Purity: 0.066
CCT: 6431 K Ra: 83.9
SDCM : 1.07 DUV : 0.0079
Ratio : R%: 22.4 G%: 44.8 B%: 32.8
Kred 11.71% Kgreen 81.81% Kblue 6.48%
R1: 81.5 R2: 87.0 R3: 91.8
R4: 84.9 R5: 83.2 R6: 83.5
R7: 88.2 R8: 71.4 R9: 10.9
R10: 70.0 R11: 88.5 R12: 58.5
R13: 82.6 R14: 95.7 R15: 75.9
Rf : 0.0 Rg : 0.0



Electrical parameters

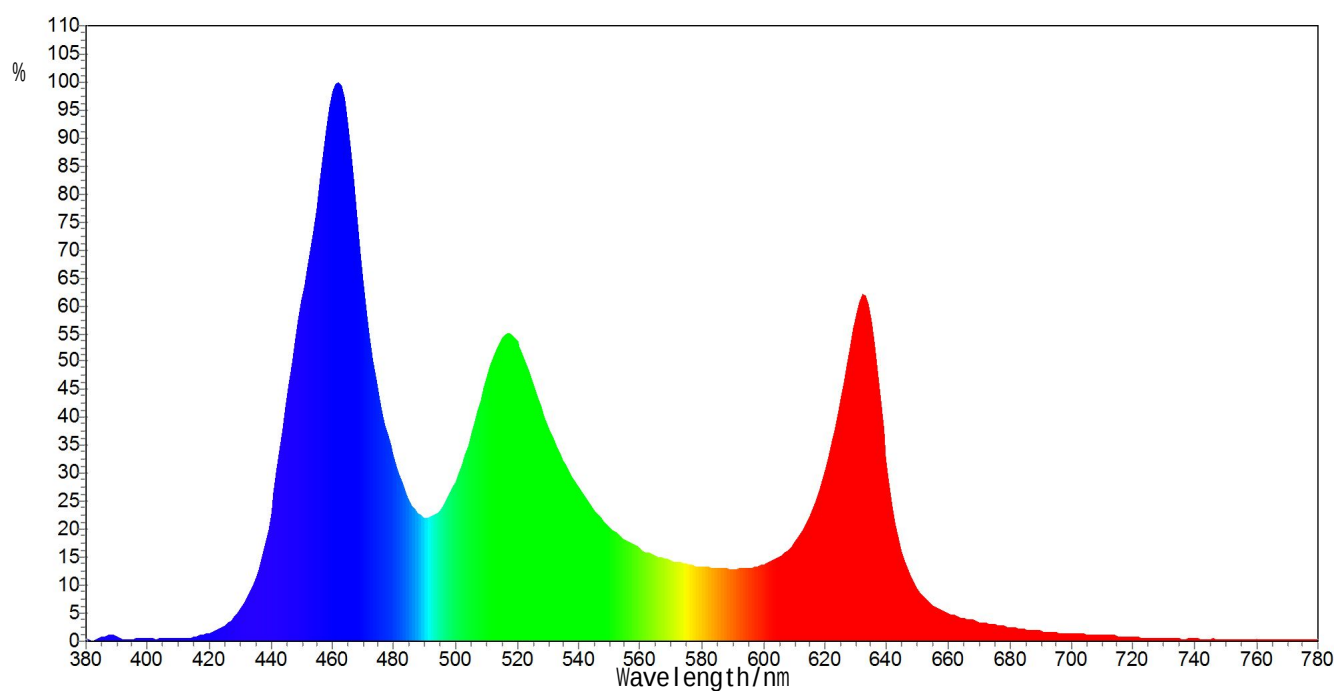
Flux: 691.593 lm E: 93.496 lm/w P: 2376.39 mw
I: 308.2 mA V: 24.00 V P: 7.397 w PF:

Memo:

1M

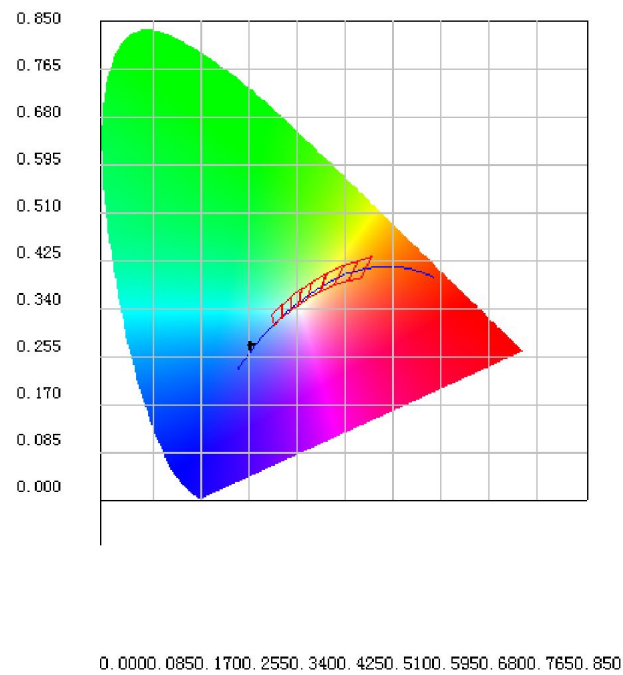
Product Mode:	S020120CC4PZ RGBW 6000-6500K	Item No:	10103-0343-00
Tester:	leixiaolan	Date:	2023-5-18
Temperature:	28 ()	Humidity:	71 (%)
Manufacturer:	ipixel LED Light CO.,Ltd	organization:	

LED Photometric Colorimetric and Electric Test Report



Spectrum Parameters

x:	0.2625	y:	0.2782			0.850
u:	0.1806	v:	0.2871			0.765
WD:	480.8 nm	WP:	463.2 nm			0.595
HW:	26.2 nm	Purity:	0.289			0.510
CCT:	12839 K	Ra:	75.6			0.425
SDCM :	37.06	DUV :	0.0064			0.340
Ratio :	R%: 22.9	G%: 34.6	B%: 42.5			0.255
Kred	16.32%	Kgreen	72.84%	Kblue	10.85%	0.170
						0.085
R1:	65.9	R2:	79.9	R3:	88.7	0.000
R4:	77.4	R5:	78.8	R6:	82.3	
R7:	80.5	R8:	50.8	R9:	-56.4	
R10:	53.7	R11:	74.2	R12:	62.2	
R13:	65.2	R14:	90.6	R15:	55.6	
Rf :	0.0	Rg :	0.0			



Electrical parameters

Flux:	1521.761 lm	E:	56.624 lm/w	P:	6797.43 mw	
I:	1119.8 mA	V:	24.00 V	P:	26.875 w	PF:

Memo:

1M

Product Mode:	S020120CC4PZ RGBW 混光	Item No:	10103-0343-00
Tester:	leixiaolan	Date:	2023-5-18
Temperature:	28 ()	Humidity:	71 (%)
Manufacturer:	ipixel LED Light CO.,Ltd	organization:	

Spectrum Test Report

Sample :
Specification : S012096CC4PZ R
Sample No. : 10103-0737-00
Manufacturer : iPixel LED

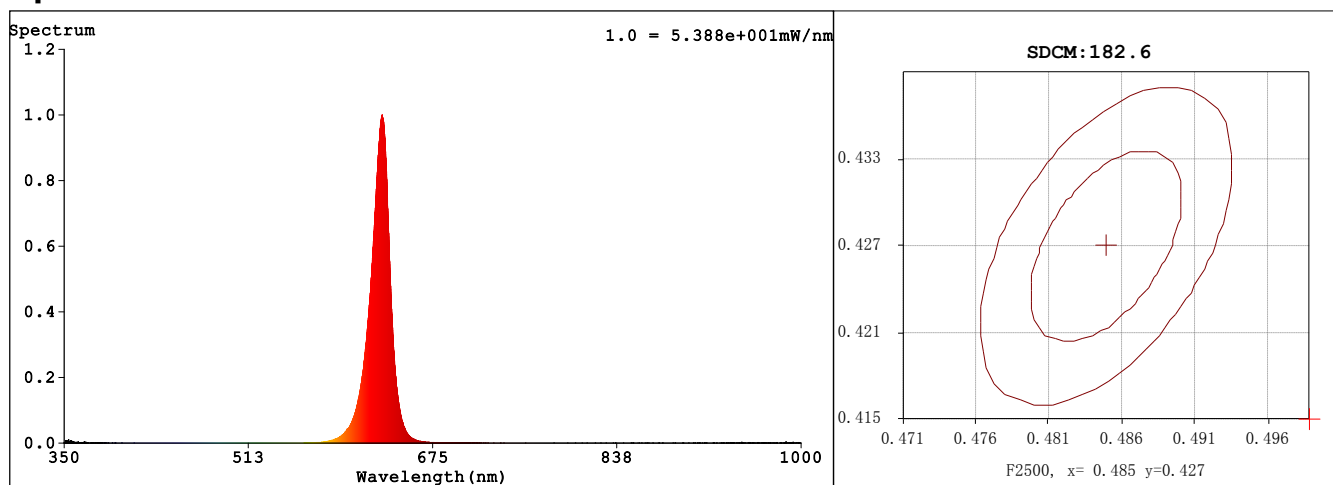
Date : 2026-01-23
Sam. Status : 1M
Instrument : HAAS-2000(EVERFINE)
Test by : LZN

Test Condition

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

RH	: 65.0%
IP	: 54476 (83%)
T	: 139 ms
Sensitivity	: High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.6939$ $y = 0.3054$ / $u' = 0.5260$ $v' = 0.5209$ ($duv = -7.84e-02$)

CCT= 1001K Prcp WL: Ld=621.5nm Purity=99.8%

Peak WL: Lp=631nm FWHM: =17.0nm Ratio:R=95.9% G=4.1% B=0.0%

Render Index: Ra = 26.6 TM30:Rf=1 Rg=1618205508792906200000000000000000

R1 =7 R2 =78 R3 =31 R4 =0 R5 =2 R6 =90 R7 =5

R8 = 0 R9 = 0 R10 = 72 R11 = 0 R12 = 79 R13 = 30 R14 = 60 R15 = 0

LEVEL:OUT

TLCI Parameters: TLCI = 3.7

Photometric & Radiometric Parameters

Flux = 223.73 lm Eff. : 37.48 lm/W Fe = 1.1022 W

EEI: 0.24740 B

EEC: 37.5 G

Electrical parameters

V = 24.00 V I = 0.2487 A P = 5.969 W PF = 1.000

Freq=0.00 Hz

GBT5702

iPixel LED

<https://www.ipixelleds.com>

Spectrum Test Report

Sample :
Specification : S012096CC4PZ G
Sample No. : 10103-0737-00
Manufacturer : iPixel LED

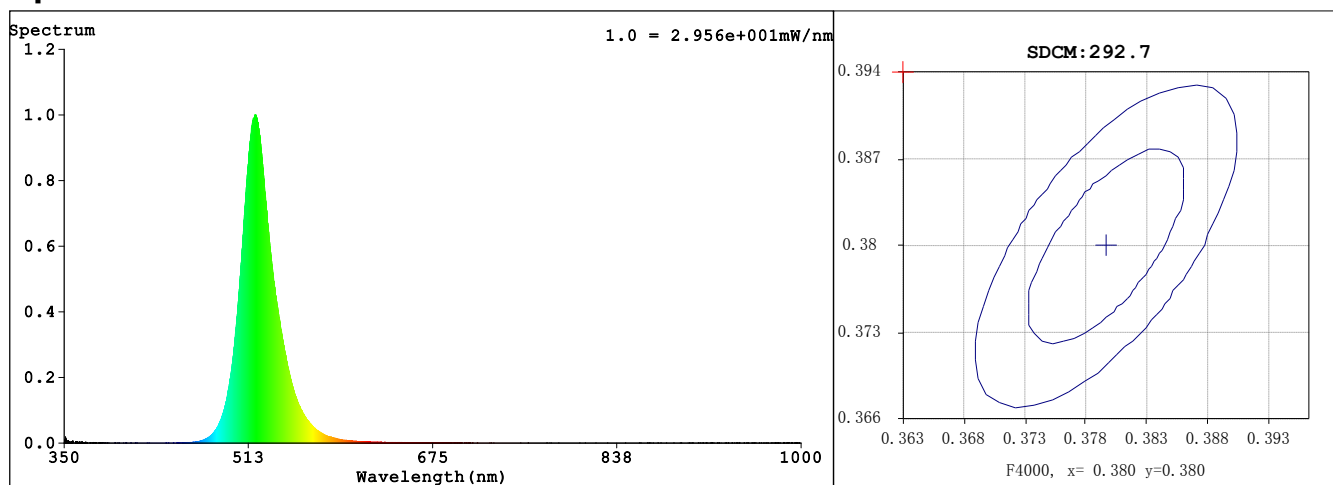
Date : 2026-01-23
Sam. Status : 1M
Instrument : HAAS-2000(EVERFINE)
Test by : LZN

Test Condition

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

RH : 65.0%
IP : 53693 (82%)
T : 213 ms
Sensitivity : High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.1555$ $y = 0.7305$ / $u' = 0.0543$ $v' = 0.5739$ ($duv=1.62e-01$)

CCT= 8032K Prpc WL: Ld=524.8nm Purity=80.5%

Peak WL: Lp=518nm FWHM: =29.6nm Ratio:R=0.3% G=97.6% B=2.1%

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 = 500.88 lm Eff. : 83.95 lm/W Fe = 1.0572 W

EEL: 0.13487 A+

EEC: 84.0 G

Electrical parameters

V = 24.00 V I = 0.2486 A P = 5.966 W PF = 1.000

Freq=0.00 Hz

GBT5702

iPixel LED

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Spectrum Test Report

Sample :
Specification : S012096CC4PZ B
Sample No. : 10103-0737-00
Manufacturer : iPixel LED

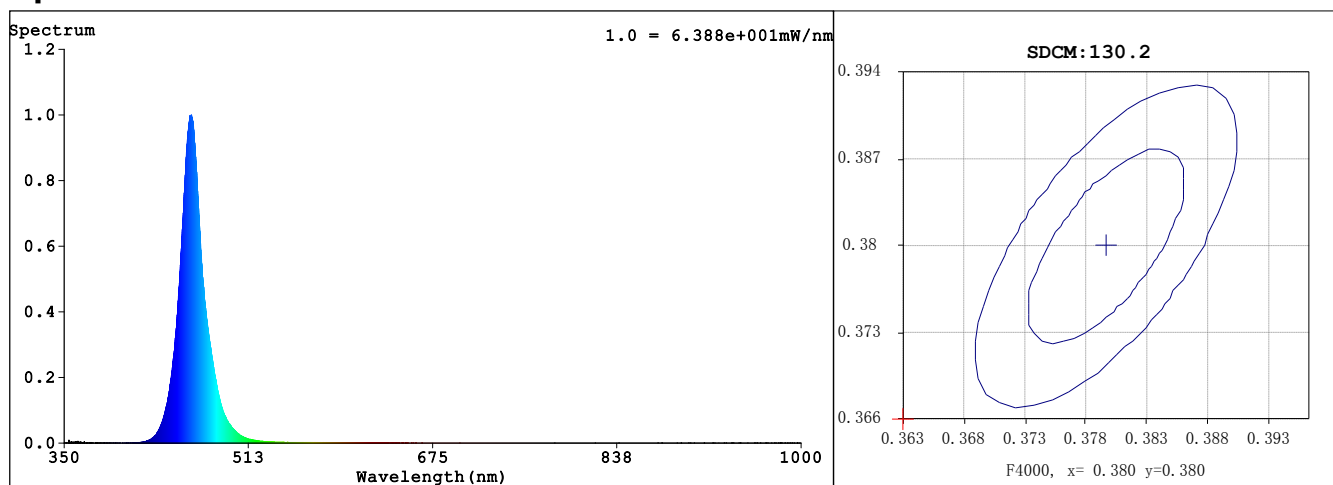
Date : 2026-01-23
Sam. Status : 1M
Instrument : HAAS-2000(EVERFINE)
Test by : LZN

Test Condition

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

RH : 65.0%
IP : 43878 (67%)
T : 106 ms
Sensitivity : High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.1388$ $y = 0.0518$ / $u' = 0.1660$ $v' = 0.1394$ ($duv = -1.74e-01$)

CCT>=100000K Prcp WL: Ld=466.2nm Purity=97.1%

Peak WL: Lp=462nm FWHM: =20.5nm Ratio:R=0.6% G=14.2% B=85.2%

Render Index: Ra = 0.6 TM30:Rf=0 Rg=89

R1 =0 R2 =0 R3 =0 R4 =0 R5 =5 R6 =0 R7 =0
R8 =0 R9 =0 R10=0 R11=0 R12=0 R13=0 R14=0 R15=2

LEVEL:OUT

TLCI Parameters: TLCI = 0.9

Photometric & Radiometric Parameters

Flux = 101.06 lm Eff. : 17.55 lm/W Fe = 1.6519 W

EEL: 0.41725 B

EEC: 17.6 G

Electrical parameters

V = 24.00 V I = 0.2399 A P = 5.757 W PF = 1.000

Freq=0.00 Hz

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iPixel LED

<https://www.ipixelleds.com>

Spectrum Test Report

Sample :
Specification : S012096CC4PZ 3000±300K
Sample No. : 10103-0737-00
Manufacturer : iPixel LED

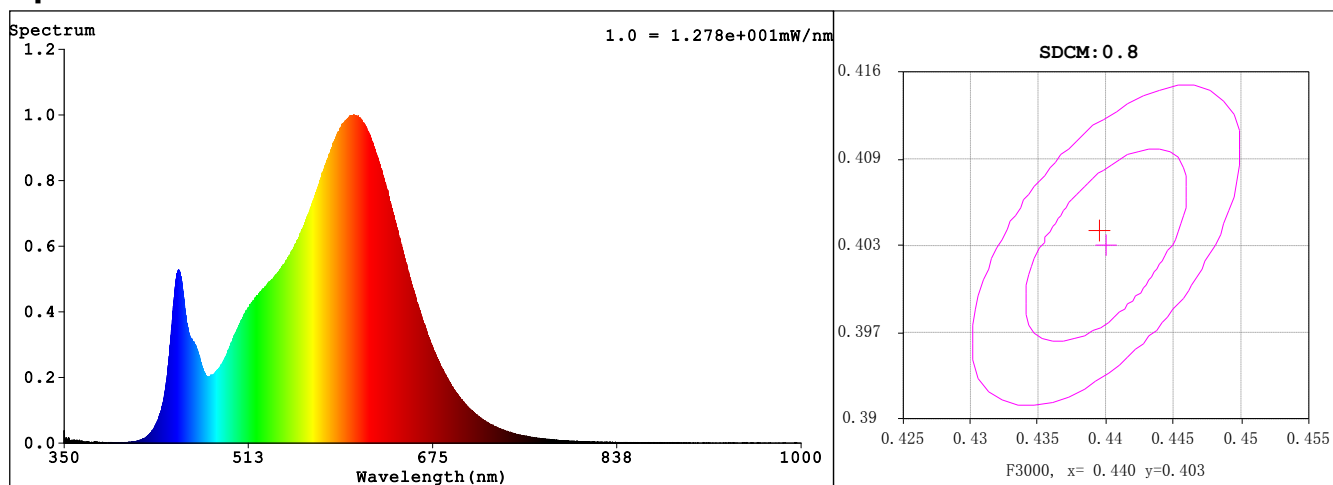
Date : 2026-01-23
Sam. Status : 1M
Instrument : HAAS-2000(EVERFINE)
Test by : LZN

Test Condition

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

RH : 65.0%
IP : 53435 (82%)
T : 526 ms
Sensitivity : High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: x = 0.4395 y = 0.4041 / u' = 0.2522 v' = 0.5218 (duv=-3.25e-04)

CCT= 2958K Prpc WL: Ld=583.1nm Purity=53.2%

Peak WL: Lp=606nm FWHM: =121.2nm Ratio:R=23.4% G=73.9% B=2.7%

Render Index: Ra = 83.4 TM30:Rf=85 Rg=96

R1 =82 R2 =93 R3 =95 R4 =82 R5 =83 R6 =92 R7 =82

R8 =59 R9 =8 R10=83 R11=82 R12=75 R13=85 R14=98 R15=74

LEVEL:OUT

TLCI Parameters: TLCI = 69.6

Photometric & Radiometric Parameters

Flux = 609.32 lm Eff. : 95.88 lm/W Fe = 1.8473 W

EEL: 0.12321 A+

EEC: 95.9 F

Electrical parameters

V = 24.00 V I = 0.2648 A P = 6.355 W PF = 1.000

Freq=0.00 Hz

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iPixel LED

<https://www.ipixelleds.com>

Spectrum Test Report

Sample :
Specification : S012096CC4PZ Mixed
Sample No. : 10103-0737-00
Manufacturer : iPixel LED

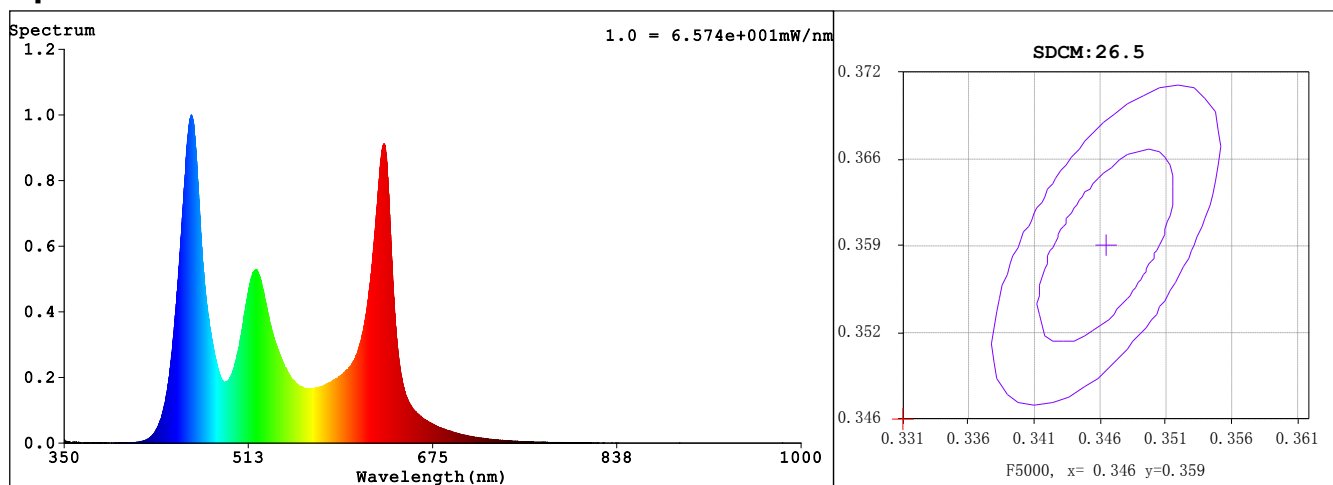
Date : 2026-01-23
Sam. Status : 1M
Instrument : HAAS-2000(EVERFINE)
Test by : LZN

Test Condition

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

RH : 65.0%
IP : 56872 (87%)
T : 131 ms
Sensitivity : High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.3142$ $y = 0.2946$ / $u' = 0.2128$ $v' = 0.4489$ ($duv = -1.65e-02$)

CCT= 6747K Prpc WL: $L_d = 420.8\text{nm}$ Purity=11.8%

Peak WL: $L_p = 462\text{nm}$ FWHM: $= 22.9\text{nm}$ Ratio: R=24.2% G=67.7% B=8.1%

Render Index: $R_a = 54.7$ TM30: $R_f = 70$ $R_g = 117$

R1 =37 R2 =64 R3 =89 R4 =46 R5 =47 R6 =55 R7 =75

R8 =24 R9 =0 R10=24 R11=31 R12=52 R13=41 R14=89 R15=28

LEVEL:OUT

TLCI Parameters: TLCI = 50.4

Photometric & Radiometric Parameters

Flux = 1400.5 lm Eff. : 57.87 lm/W $F_e = 5.5344\text{ W}$

EEI: 0.23539 A

EEC: 57.9 G

Electrical parameters

V = 24.00 V I = 1.008 A P = 24.20 W PF = 1.000

Freq=0.00 Hz

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iPixel LED

<https://www.ipixelleds.com>

Spectrum Test Report

Sample :
Specification : S012096CB4PZ R
Sample No. : 10103-0751-00
Manufacturer : iPixel LED

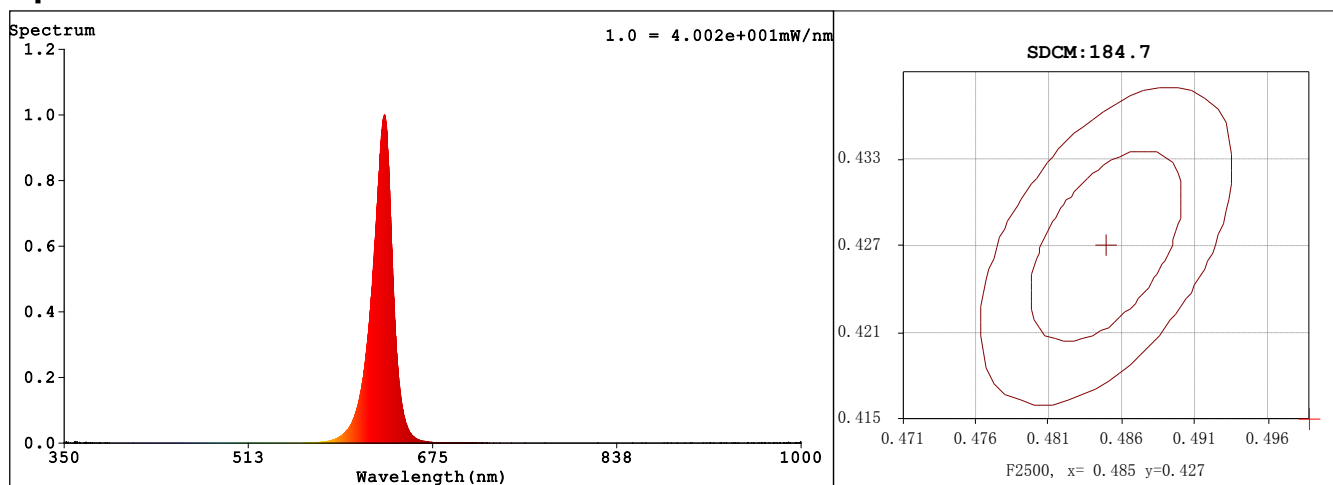
Date : 2026-04-23
Sam. Status : 1M
Instrument : HAAS-2000(EVERFINE)
Test by : CJ

Test Condition

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

RH	: 65.0%
IP	: 50747 (77%)
T	: 176 ms
Sensitivity	: High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.6962$ $y = 0.3037$ / $u' = 0.5302$ $v' = 0.5204$ ($duv = -8.27e-02$)

CCT= 1001K Prcp WL: Ld=622.4nm Purity=100.0%

Peak WL: Lp=633nm FWHM: =18.0nm Ratio:R=95.9% G=4.1% B=-0.0%

Render Index: Ra = 26.6 TM30:Rf=1 Rg=3868042687950313500000000000000000

R1 =6 R2 =77 R3 =32 R4 =0 R5 =1 R6 =88 R7 =8

R8 = 0 R9 = 0 R10=70 R11=0 R12=79 R13=29 R14=60 R15=0

LEVEL:OUT

TLCI Parameters: TLCI = 3.5

Photometric & Radiometric Parameters

Flux = 165.92 lm Eff. : 29.22 lm/W Fe = 861.36 mW

EEI: 0.29170 B

EEC: 29.2 G

Electrical parameters

$$V = 12.00 \text{ V} \quad I = 0.4732 \text{ A} \quad P = 5.678 \text{ W} \quad \text{PF} = 1.000$$

Freq=0.00 Hz

GBT5702

iPixel LED

<https://www.ipixelleds.com>

Spectrum Test Report

Sample :
Specification : S012096CB4PZ G
Sample No. : 10103-0751-00
Manufacturer : iPixel LED

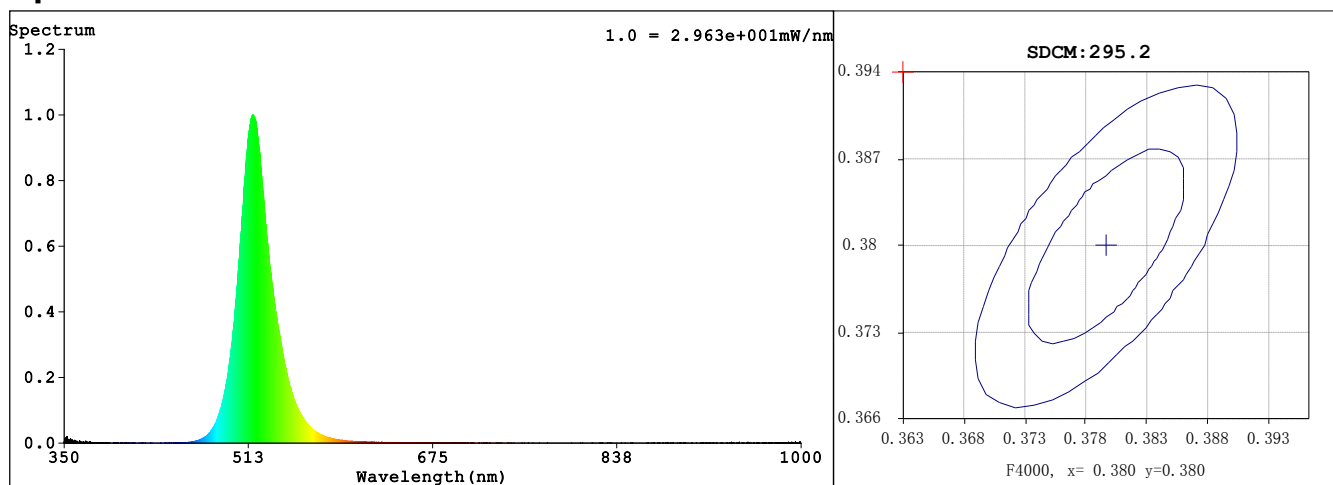
Date : 2026-04-23
Sam. Status : 1M
Instrument : HAAS-2000(EVERFINE)
Test by : CJ

Test Condition

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

RH : 65.0%
IP : 43620 (67%)
T : 176 ms
Sensitivity : High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.1424$ $y = 0.7201$ / $u' = 0.0501$ $v' = 0.5707$ ($duv=1.65e-01$)

CCT= 8322K Prpc WL: $L_d=521.5nm$ Purity=77.3%

Peak WL: $L_p=517nm$ FWHM: $=29.7nm$ Ratio:R=0.3% G=96.7% B=3.1%

Render Index: $R_a = 0.0$ TM30:Rf=1 Rg=7

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=37 R15=0

LEVEL:OUT

TLCI Parameters: TLCI = 2.7

Photometric & Radiometric Parameters

Flux = 482.91 lm Eff. : 66.71 lm/W $Fe = 1.0711 W$

EEL: 0.16835 A+

EEC: 66.7 G

Electrical parameters

V = 12.00 V I = 0.6033 A P = 7.239 W PF = 1.000

Freq=0.00 Hz

GBT5702

iPixel LED

<https://www.ipixelleds.com>

Spectrum Test Report

Sample :
Specification : S012096CB4PZ B
Sample No. : 10103-0751-00
Manufacturer : iPixel LED

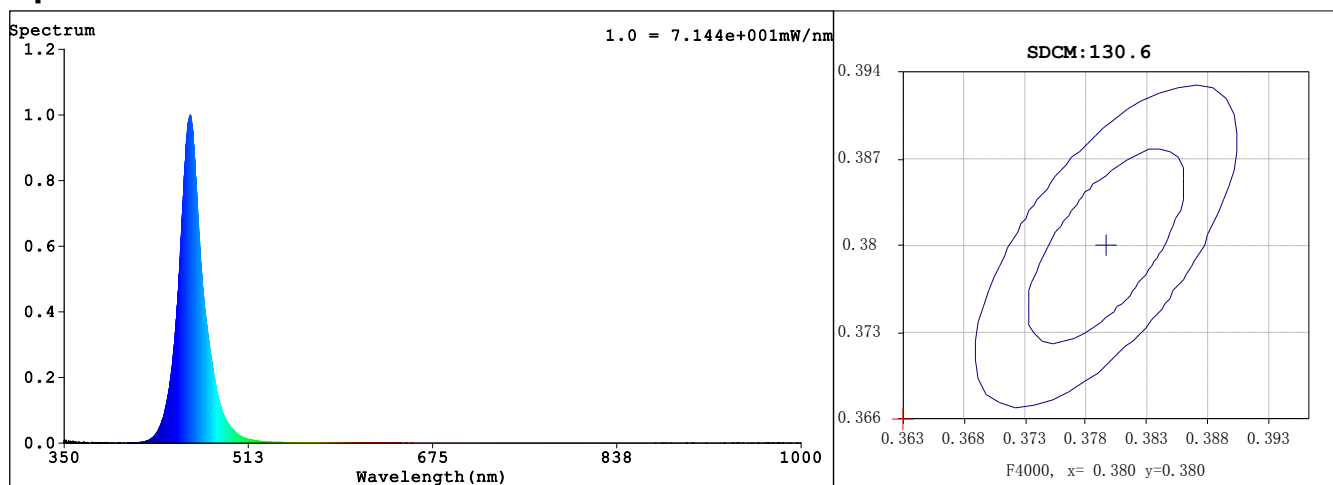
Date : 2026-04-23
Sam. Status : 1M
Instrument : HAAS-2000(EVERFINE)
Test by : CJ

Test Condition

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

RH : 65.0%
IP : 55114 (84%)
T : 122 ms
Sensitivity : High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.1397$ $y = 0.0496$ / $u' = 0.1685$ $v' = 0.1347$ ($duv = -1.77e-01$)

CCT>=100000K Prcp WL: Ld=465.6nm Purity=97.3%

Peak WL: Lp=461nm FWHM: =20.4nm Ratio:R=0.6% G=13.7% B=85.7%

Render Index: Ra = 0.6 TM30:Rf=0 Rg=71

R1 =0 R2 =0 R3 =0 R4 =0 R5 =4 R6 =0 R7 =0

R8 =0 R9 =0 R10=0 R11=0 R12=0 R13=0 R14=0 R15=2

LEVEL:OUT

TLCI Parameters: TLCI = 0.8

Photometric & Radiometric Parameters

Flux = 108.66 lm Eff. : 16.77 lm/W Fe = 1.8342 W

EEL: 0.44687 B

EEC: 16.8 G

Electrical parameters

V = 12.00 V I = 0.5399 A P = 6.478 W PF = 1.000

Freq=0.00 Hz

GBT5702

iPixel LED

<https://www.ipixelleds.com>

Spectrum Test Report

Sample :
Specification : S012096CB4PZ 6500±400K
Sample No. : 10103-0751-00
Manufacturer : iPixel LED

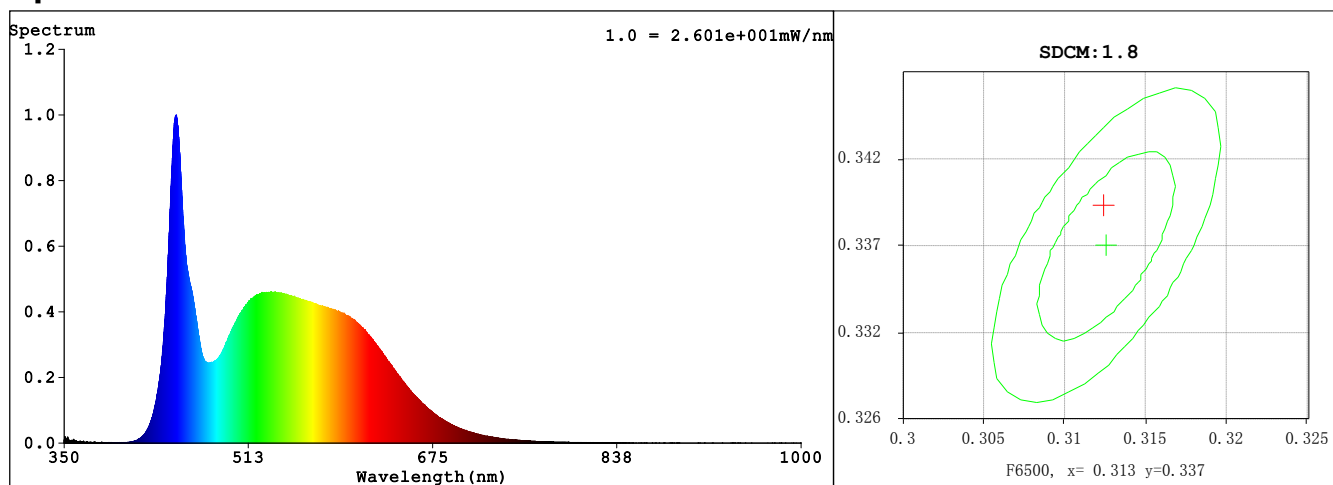
Date : 2026-04-23
Sam. Status : 1M
Instrument : HAAS-2000(EVERFINE)
Test by : CJ

Test Condition

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

RH : 65.0%
IP : 53746 (82%)
T : 366 ms
Sensitivity : High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: x = 0.3128 y = 0.3395 / u' = 0.1941 v' = 0.4739 (duv=8.41e-03)

CCT= 6425K Prcp WL: Ld=495.6nm Purity=6.6%

Peak WL: Lp=449nm FWHM: =19.2nm Ratio:R=13.5% G=80.9% B=5.6%

Render Index: Ra = 84.6 TM30:Rf=86 Rg=95

R1 =82 R2 =88 R3 =92 R4 =85 R5 =83 R6 =84 R7 =90

R8 =72 R9 =13 R10=71 R11=84 R12=61 R13=84 R14=96 R15=77

LEVEL:OUT

TLCI Parameters: TLCI = 77.9

Photometric & Radiometric Parameters

Flux = 768.25 lm Eff. : 105.99 lm/W Fe = 2.4627 W

EEL: 0.11685 A+

EEC: 106.0 F

Electrical parameters

V = 12.00 V I = 0.6041 A P = 7.249 W PF = 1.000

Freq=0.00 Hz

GBT5702

iPixel LED

<https://www.ipixelleds.com>

Spectrum Test Report

Sample :
Specification : S012096CB4PZ Mixed
Sample No. : 10103-0751-00
Manufacturer : iPixel LED

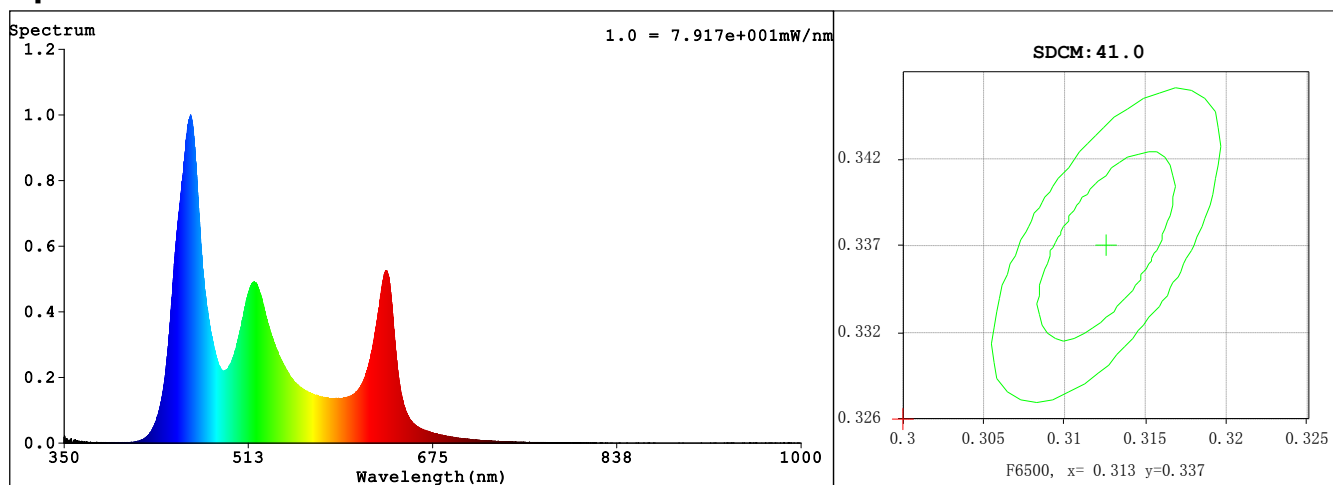
Date : 2026-04-23
Sam. Status : 1M
Instrument : HAAS-2000(EVERFINE)
Test by : CJ

Test Condition

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

RH : 65.0%
IP : 45582 (70%)
T : 91 ms
Sensitivity : High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: x = 0.2585 y = 0.2682 / u' = 0.1814 v' = 0.4234 (duv=4.02e-03)

CCT= 16107K Prpc WL: Ld=479.3nm Purity=31.3%

Peak WL: Lp=462nm FWHM: =26.9nm Ratio:R=16.5% G=73.2% B=10.3%

Render Index: Ra = 77.2 TM30:Rf=76 Rg=108

R1 =70 R2 =82 R3 =91 R4 =78 R5 =79 R6 =83 R7 =80

R8 =55 R9 =0 R10=60 R11=71 R12=67 R13=70 R14=92 R15=59

LEVEL:OUT

TLCI Parameters: TLCI = 57.1

Photometric & Radiometric Parameters

Flux = 1429.6 lm Eff. : 56.49 lm/W Fe = 5.8744 W

EEL: 0.24114 B

EEC: 56.5 G

Electrical parameters

V = 12.00 V I = 2.109 A P = 25.31 W PF = 1.000

Freq=0.00 Hz

GBT5702

iPixel LED

<https://www.ipixelleds.com>

Spectrum Test Report

Sample :
Specification : S012060CB4PZ G
Sample No. : 10103-0034-00
Manufacturer : iPixel LED

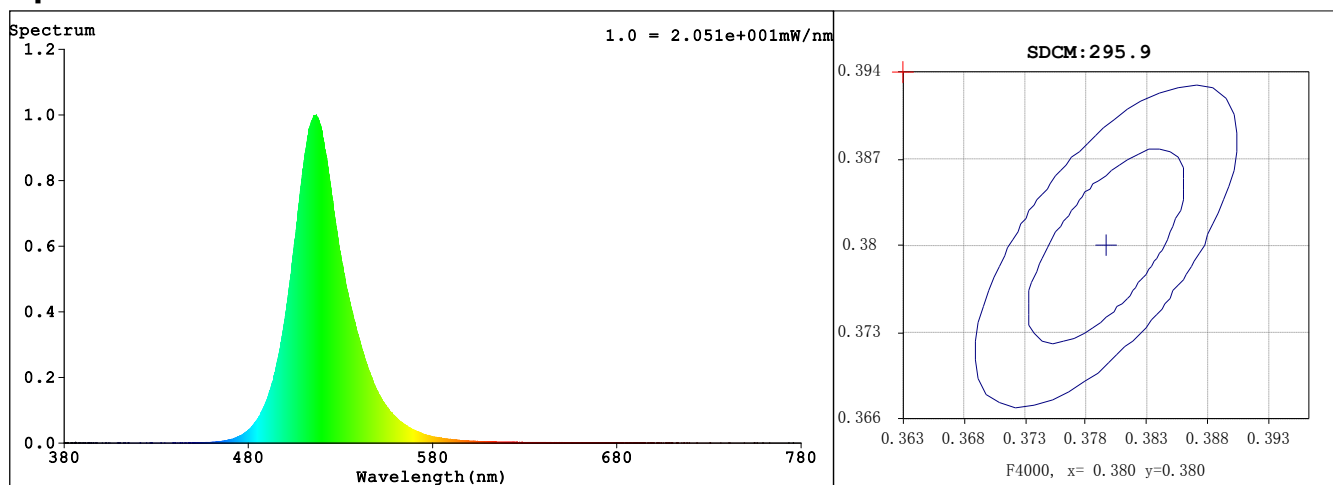
Date : 2026-05-10
Sam. Status : 1M
Instrument : HAAS-2000(EVERFINE)
Test by : CJ

Test Condition

Temperature : 20.0 °C
WL Range : 380nm-780nm
Test Mode : Fast Test

RH : 65.0%
IP : 42937 (66%)
T : 250 ms
Sensitivity : High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.1405$ $y = 0.7194$ / $u' = 0.0495$ $v' = 0.5704$ ($duv=1.65e-01$)

CCT= 8360K Prpc WL: Ld=521.2nm Purity=77.1%

Peak WL: Lp=517nm FWHM: =29.6nm Ratio:R=0.3% G=96.6% B=3.2%

Render Index: Ra = 0.0 TM30:Rf=1 Rg=7

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=37 R15=0

LEVEL:OUT

TLCI Parameters: TLCI = 2.7

Photometric & Radiometric Parameters

Flux = 330.28 lm Eff. : 65.26 lm/W Fe = 734.08 mW

EEL: 0.15729 A+

EEC: 65.3 G

Electrical parameters

V = 12.00 V I = 0.4218 A P = 5.061 W PF = 1.000

Freq=0.00 Hz

GBT5702

iPixel LED

<https://www.ipixelleds.com>

Spectrum Test Report

Sample :
Specification : S012060CB4PZ R
Sample No. : 10103-0034-00
Manufacturer : iPixel LED

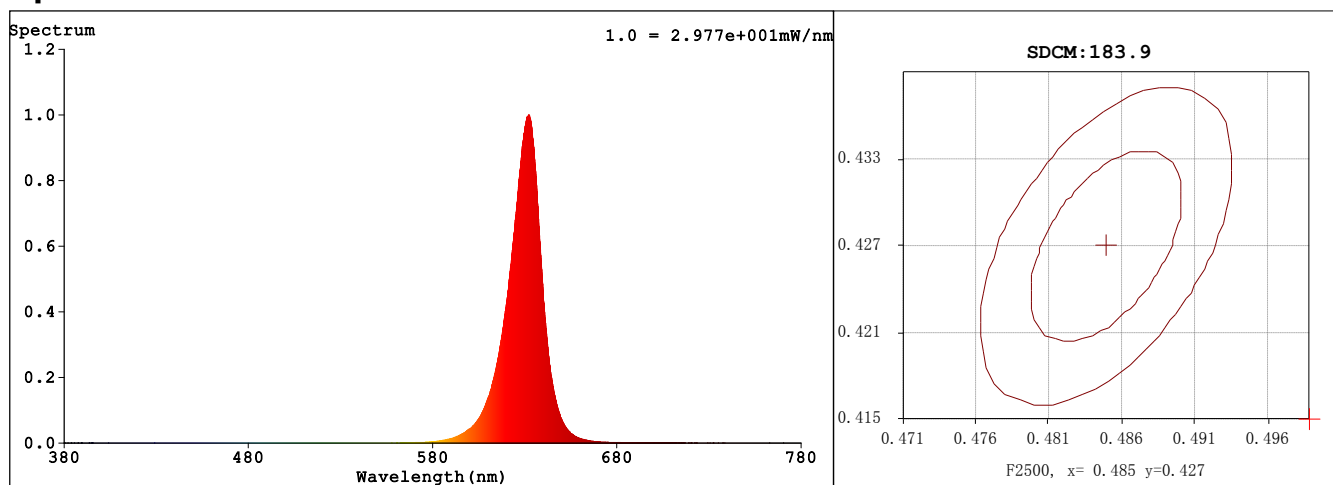
Date : 2026-05-10
Sam. Status : 1M
Instrument : HAAS-2000(EVERFINE)
Test by : CJ

Test Condition

Temperature : 20.0 °C
WL Range : 380nm-780nm
Test Mode : Fast Test

RH	: 65.0%
IP	: 53668 (82%)
T	: 250 ms
Sensitivity	: High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.6954$ $y = 0.3044$ / $u' = 0.5287$ $v' = 0.5206$ ($duv = -8.11e-02$)

CCT= 1001K Prcp WL: Ld=622.1nm Purity=99.9%

Peak WL: Lp=632nm FWHM: =17.9nm Ratio:R=95.8% G=4.2% B=0.0%

Render Index: Ra = 27.0 TM30:Rf=1 Rg=356092957124423920000000000000000000

R1 =7 R2 =78 R3 =32 R4 =0 R5 =2 R6 =89 R7 =8

R8 = 0 R9 = 0 R10 = 71 R11 = 0 R12 = 79 R13 = 30 R14 = 60 R15 = 0

LEVEL:OUT

TLCI Parameters: TLCI = 4.0

Photometric & Radiometric Parameters

Flux = 125.10 lm Eff. : 29.49 lm/W Fe = 638.66 mW

EEI: 0.26563 B

EEC: 29.5 G

Electrical parameters

V = 12.00 V I = 0.3536 A P = 4.243 W PF = 1.000

Freq=0.00 Hz

GBT5702

iPixel LED

<https://www.ipixelleds.com>

Spectrum Test Report

Sample :
Specification : S012060CB4PZ B
Sample No. : 10103-0034-00
Manufacturer : iPixel LED

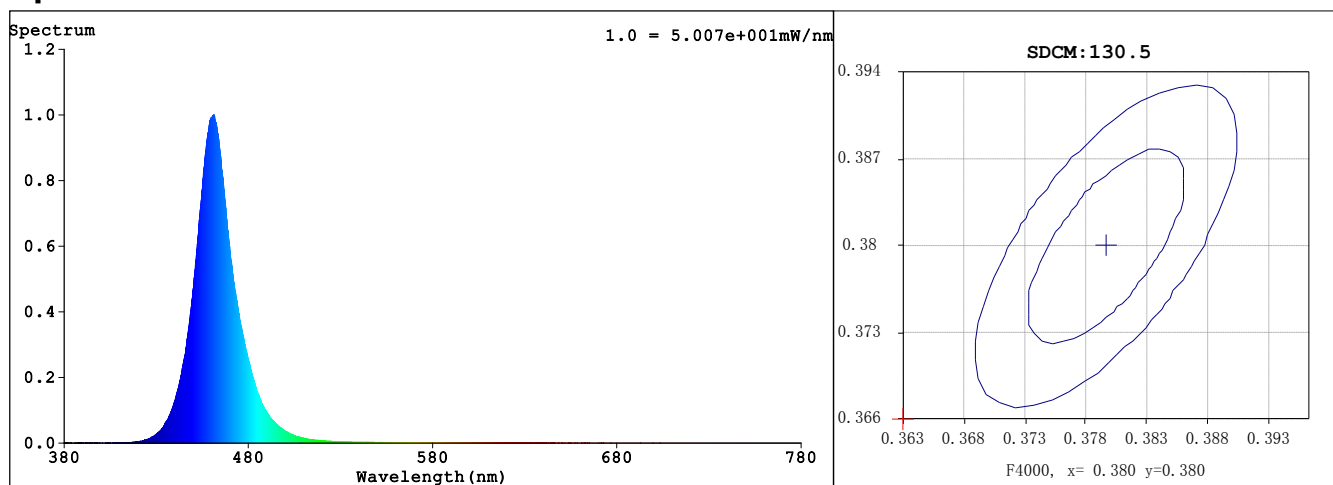
Date : 2026-05-10
Sam. Status : 1M
Instrument : HAAS-2000(EVERFINE)
Test by : CJ

Test Condition

Temperature : 20.0 °C
WL Range : 380nm-780nm
Test Mode : Fast Test

RH : 65.0%
IP : 39602 (60%)
T : 125 ms
Sensitivity : High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.1402$ $y = 0.0495$ / $u' = 0.1693$ $v' = 0.1344$ ($duv = -1.77e-01$)

CCT>=100000K Prcp WL: Ld=465.5nm Purity=97.2%

Peak WL: Lp=461nm FWHM: =21.3nm Ratio:R=0.6% G=14.4% B=84.9%

Render Index: Ra = 0.7 TM30:Rf=0 Rg=80

R1 =0 R2 =0 R3 =0 R4 =0 R5 =5 R6 =0 R7 =0
R8 =0 R9 =0 R10=0 R11=0 R12=0 R13=0 R14=0 R15=3

LEVEL:OUT

TLCI Parameters: TLCI = 0.9

Photometric & Radiometric Parameters

Flux = 78.234 lm Eff. : 16.29 lm/W Fe = 1.3181 W

EEL: 0.41346 B

EEC: 16.3 G

Electrical parameters

V = 12.00 V I = 0.4003 A P = 4.803 W PF = 1.000

Freq=0.00 Hz

GBT5702

iPixel LED

<https://www.ipixelleds.com>

Spectrum Test Report

Sample :
Specification : S012060CB4PZ 6500±400K
Sample No. : 10103-0034-00
Manufacturer : iPixel LED

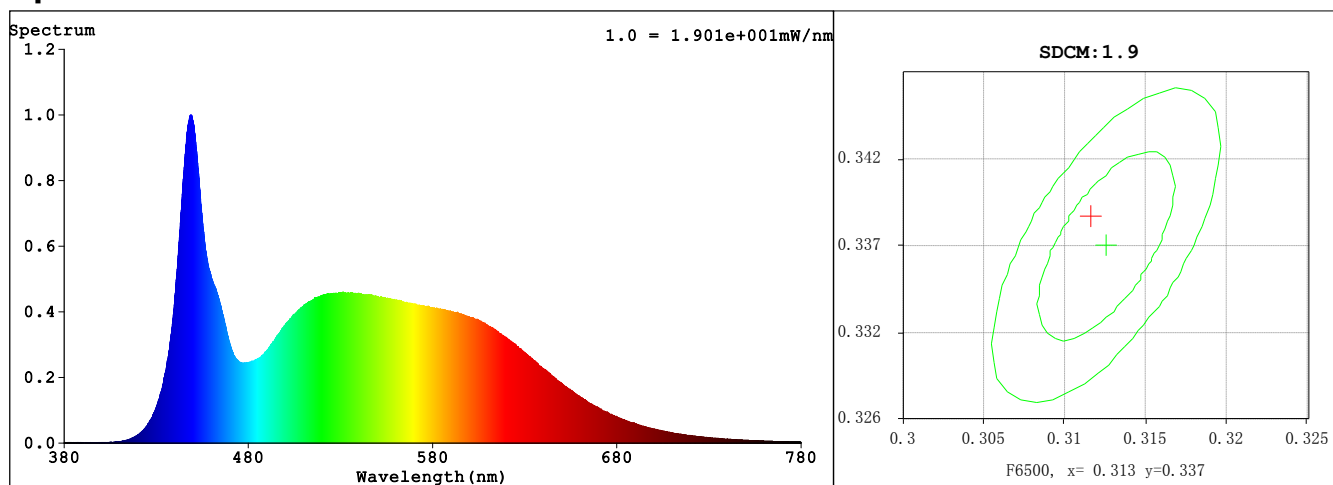
Date : 2026-05-10
Sam. Status : 1M
Instrument : HAAS-2000(EVERFINE)
Test by : CJ

Test Condition

Temperature : 20.0 °C
WL Range : 380nm-780nm
Test Mode : Fast Test

RH : 65.0%
IP : 53414 (82%)
T : 496 ms
Sensitivity : High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: x = 0.3121 y = 0.3388 / u' = 0.1938 v' = 0.4734 (duv=8.47e-03)

CCT= 6469K Prpc WL: Ld=495.0nm Purity=6.9%

Peak WL: Lp=449nm FWHM: =19.2nm Ratio:R=13.4% G=80.9% B=5.7%

Render Index: Ra = 84.6 TM30:Rf=86 Rg=94

R1 =82 R2 =88 R3 =92 R4 =85 R5 =83 R6 =84 R7 =90

R8 =72 R9 =13 R10=71 R11=84 R12=61 R13=84 R14=96 R15=77

LEVEL:OUT

TLCI Parameters: TLCI = 77.8

Photometric & Radiometric Parameters

Flux = 558.94 lm Eff. : 104.05 lm/W Fe = 1.7891 W

EEL: 0.11147 A+

EEC: 104.0 F

Electrical parameters

V = 12.00 V I = 0.4477 A P = 5.372 W PF = 1.000

Freq=0.00 Hz

GBT5702

iPixel LED

<https://www.ipixelleds.com>

Spectrum Test Report

Sample :
Specification : S012060CB4PZ Mixed
Sample No. : 10103-0034-00
Manufacturer : iPixel LED

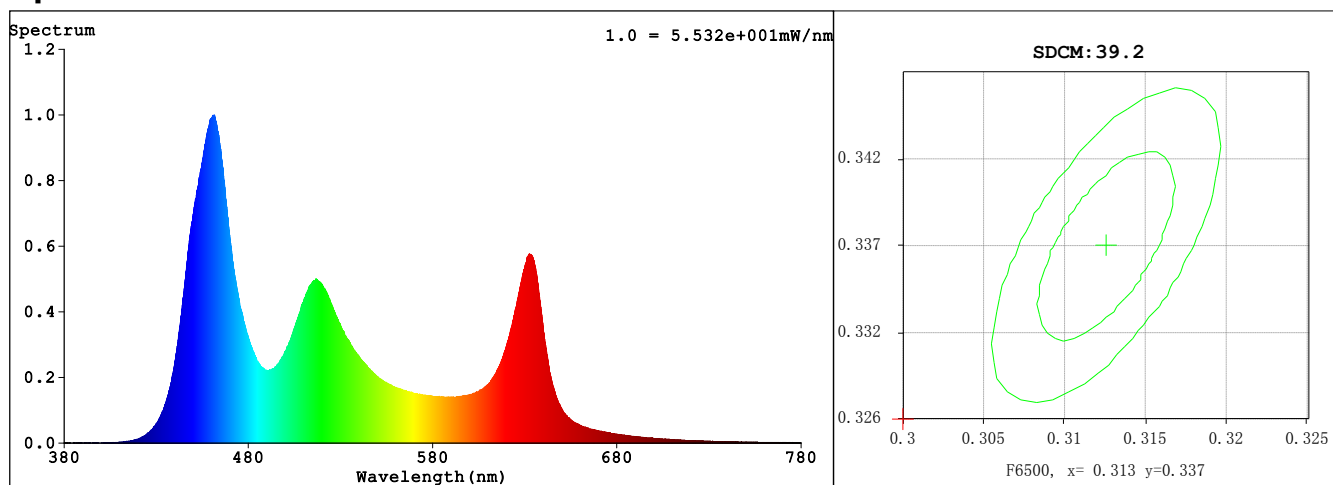
Date : 2026-05-10
Sam. Status : 1M
Instrument : HAAS-2000(EVERFINE)
Test by : CJ

Test Condition

Temperature : 20.0 °C
WL Range : 380nm-780nm
Test Mode : Fast Test

RH : 65.0%
IP : 43404 (66%)
T : 124 ms
Sensitivity : High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.2633$ $y = 0.2673$ / $u' = 0.1854$ $v' = 0.4235$ ($duv=3.00e-04$)

CCT= 15105K Prpc WL: $L_d=478.0nm$ Purity=29.9%

Peak WL: $L_p=462nm$ FWHM: $=27.3nm$ Ratio:R=17.5% G=72.4% B=10.1%

Render Index: $R_a = 73.8$ TM30:Rf=75 Rg=110

R1 =64 R2 =80 R3 =90 R4 =73 R5 =74 R6 =80 R7 =80

R8 =49 R9 =0 R10=55 R11=64 R12=67 R13=66 R14=91 R15=53

LEVEL:OUT

TLCI Parameters: TLCI = 56.1

Photometric & Radiometric Parameters

Flux = 1024.5 lm Eff. : 55.35 lm/W $Fe = 4.2031 W$

EEL: 0.23617 A

EEC: 55.4 G

Electrical parameters

V = 12.00 V I = 1.542 A P = 18.51 W PF = 1.000

Freq=0.00 Hz

GBT5702

iPixel LED

<https://www.ipixelleds.com>

Spectrum Test Report

Sample :
Specification : S012060CC4PZ G
Sample No. : 10103-0086-00
Manufacturer : iPixel LED

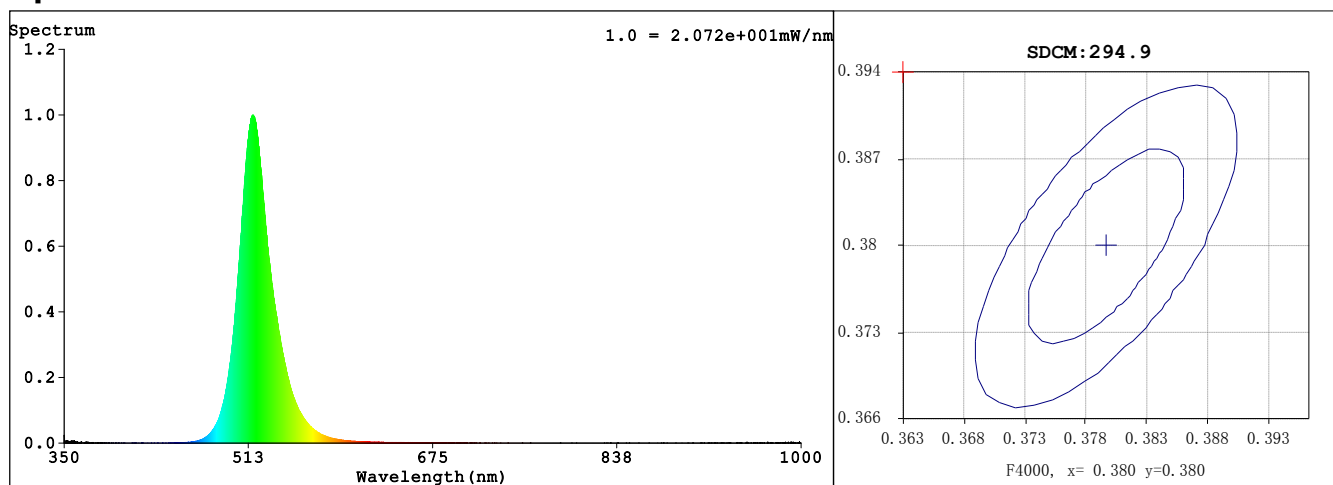
Date : 2026-07-17
Sam. Status : 1M
Instrument : HAAS-2000(EVERFINE)
Test by : CJ

Test Condition

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

RH : 65.0%
IP : 53698 (82%)
T : 319 ms
Sensitivity : High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.1446$ $y = 0.7221$ / $u' = 0.0509$ $v' = 0.5713$ ($duv=1.64e-01$)

CCT= 8268K Prpc WL: Ld=522.1nm Purity=77.8%

Peak WL: Lp=517nm FWHM: =29.5nm Ratio:R=0.3% G=96.9% B=2.9%

Render Index: Ra = 0.0 TM30:Rf=1 Rg=7

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 = 336.79 lm Eff. : 71.10 lm/W Fe = 741.30 mW

EEI: 0.14508 A+

EEC: 71.1 G

Electrical parameters

V = 24.00 V I = 0.1974 A P = 4.737 W PF = 1.000

Freq=0.00 Hz

GBT5702

iPixel LED

<https://www.ipixelleds.com>

Spectrum Test Report

Sample :
Specification : S012060CC4PZ R
Sample No. : 10103-0086-00
Manufacturer : iPixel LED

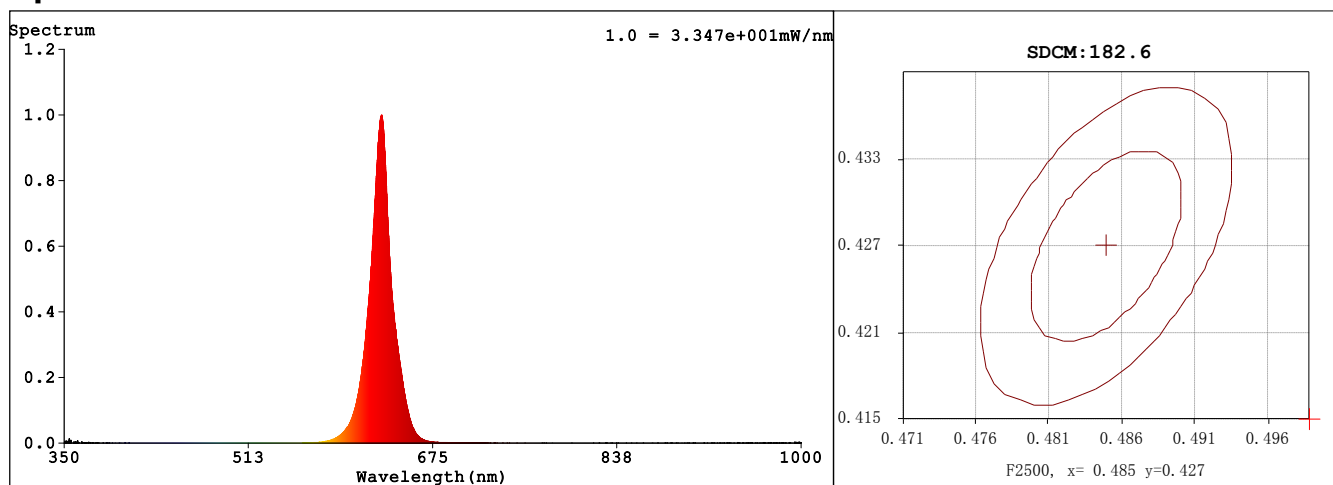
Date : 2026-07-17
Sam. Status : 1M
Instrument : HAAS-2000(EVERFINE)
Test by : CJ

Test Condition

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

RH	: 65.0%
IP	: 54160 (83%)
T	: 230 ms
Sensitivity	: High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.6941$ $y = 0.3056$ / $u' = 0.5259$ $v' = 0.5210$ ($duv = -7.83e-02$)

CCT= 1001K Prcp WL: Ld=621.4nm Purity=99.9%

Peak WL: Lp=630nm FWHM: =18.2nm Ratio:R=95.5% G=4.5% B=0.0%

Render Index: Ra = 27.2 TM30:Rf=1 Rg=1780464785622119600000000000000000

R1 =8 R2 =78 R3 =32 R4 =0 R5 =3 R6 =89 R7 =9

R8 =0 R9 =0 R10=71 R11=0 R12=79 R13=30 R14=61 R15=0

LEVEL:OUT

TLCI Parameters: TLCI = 3.5

Photometric & Radiometric Parameters

Flux = 153.00 lm Eff. : 34.37 lm/W Fe = 781.27 mW

EEI: 0.24217 B

EEC: 34.4 G

Electrical parameters

V = 24.00 V I = 0.1855 A P = 4.452 W PF = 1.000

Freq=0.00 Hz

GBT5702

iPixel LED

<https://www.ipixelleds.com>

Spectrum Test Report

Sample :
Specification : S012060CC4PZ B
Sample No. : 10103-0086-00
Manufacturer : iPixel LED

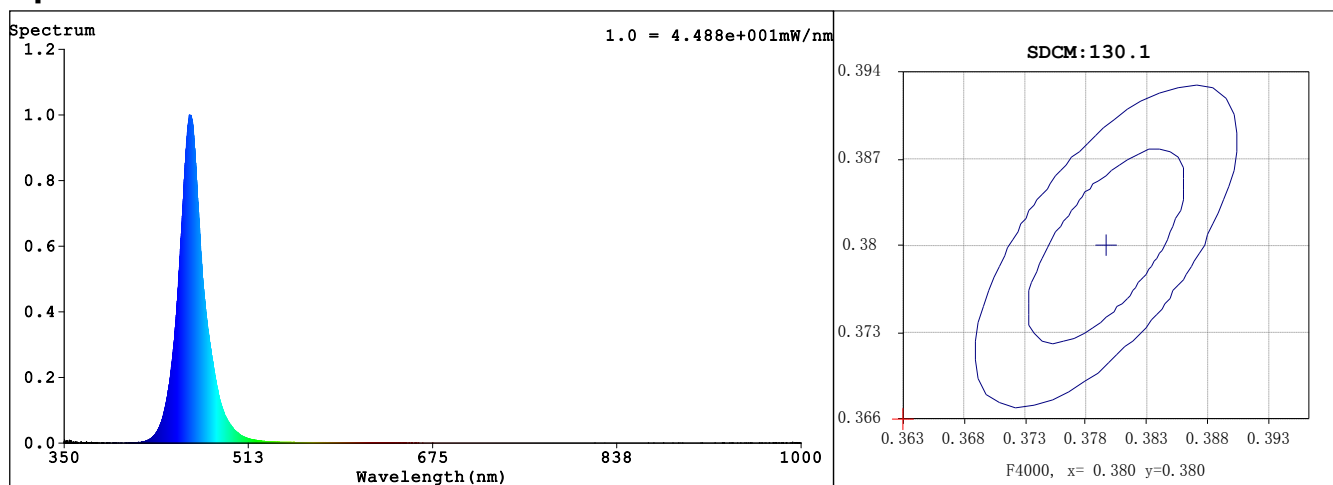
Date : 2026-07-17
Sam. Status : 1M
Instrument : HAAS-2000(EVERFINE)
Test by : CJ

Test Condition

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

RH : 65.0%
IP : 53502 (82%)
T : 193 ms
Sensitivity : High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.1396$ $y = 0.0515$ / $u' = 0.1672$ $v' = 0.1389$ ($duv = -1.74e-01$)

CCT>=100000K Prpc WL: Ld=466.0nm Purity=96.9%

Peak WL: Lp=461nm FWHM: =21.2nm Ratio:R=0.7% G=15.4% B=83.9%

Render Index: Ra = 0.8 TM30:Rf=0 Rg=95

R1 =0 R2 =0 R3 =0 R4 =0 R5 =6 R6 =0 R7 =0

R8 =0 R9 =0 R10=0 R11=0 R12=0 R13=0 R14=0 R15=4

LEVEL:OUT

TLCI Parameters: TLCI = 1.0

Photometric & Radiometric Parameters

Flux = 72.878 lm Eff. : 15.08 lm/W Fe = 1.1929 W

EEL: 0.43607 B

EEC: 15.1 G

Electrical parameters

V = 24.00 V I = 0.2014 A P = 4.833 W PF = 1.000

Freq=0.00 Hz

GBT5702

iPixel LED

<https://www.ipixelleds.com>

Spectrum Test Report

Sample :
Specification : S012060CC4PZ 3000±300K
Sample No. : 10103-0086-00
Manufacturer : iPixel LED

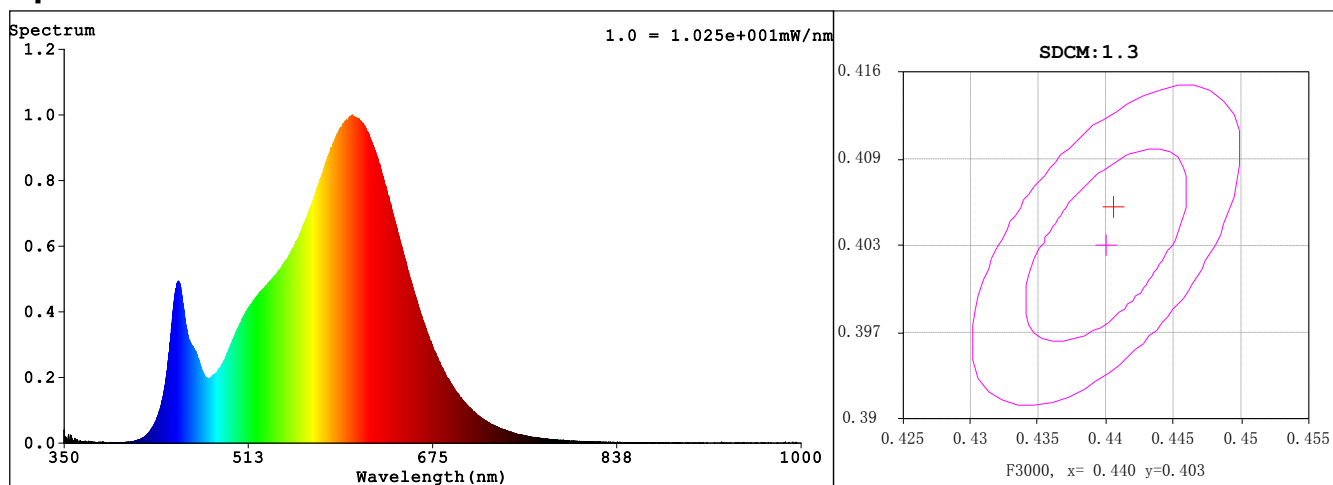
Date : 2026-07-17
Sam. Status : 1M
Instrument : HAAS-2000(EVERFINE)
Test by : CJ

Test Condition

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

RH : 65.0%
IP : 53435 (82%)
T : 679 ms
Sensitivity : High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: x = 0.4406 y = 0.4059 / u' = 0.2521 v' = 0.5226 (duv=2.29e-04)

CCT= 2954K Prpc WL: Ld=582.9nm Purity=54.1%

Peak WL: Lp=604nm FWHM: =121.8nm Ratio:R=23.4% G=74.0% B=2.6%

Render Index: Ra = 83.1 TM30:Rf=85 Rg=95

R1 =82 R2 =92 R3 =96 R4 =81 R5 =82 R6 =91 R7 =82

R8 =59 R9 =7 R10=82 R11=81 R12=74 R13=84 R14=98 R15=74

LEVEL:OUT

TLCI Parameters: TLCI = 69.0

Photometric & Radiometric Parameters

Flux = 488.40 lm Eff. : 91.51 lm/W Fe = 1.4787 W

EEL: 0.12303 A+

EEC: 91.5 F

Electrical parameters

V = 24.00 V I = 0.2224 A P = 5.337 W PF = 1.000

Freq=0.00 Hz

GBT5702

iPixel LED

<https://www.ipixelleds.com>

Spectrum Test Report

Sample :
Specification : S012060CC4PZ Mixed
Sample No. : 10103-0086-00
Manufacturer : iPixel LED

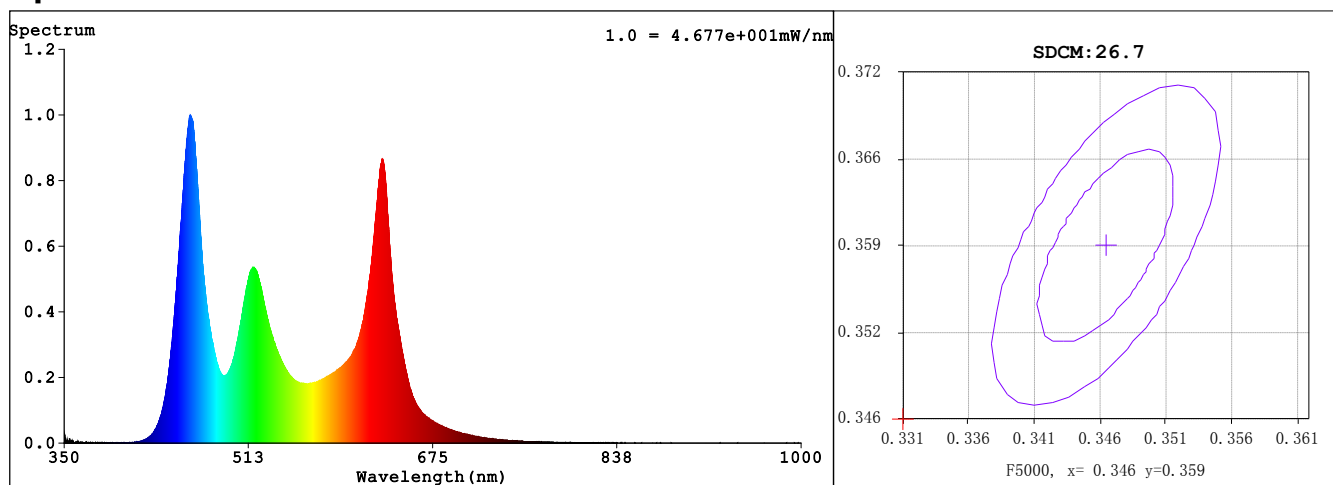
Date : 2026-07-17
Sam. Status : 1M
Instrument : HAAS-2000(EVERFINE)
Test by : CJ

Test Condition

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

RH : 65.0%
IP : 48771 (74%)
T : 169 ms
Sensitivity : High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.3170$ $y = 0.2940$ / $u' = 0.2151$ $v' = 0.4490$ ($duv = -1.84e-02$)

CCT= 6547K Prpc WL: $L_d = 568.1\text{nm}$ Purity=16.8%

Peak WL: $L_p = 461\text{nm}$ FWHM: $=23.8\text{nm}$ Ratio: R=24.4% G=67.6% B=8.1%

Render Index: $R_a = 55.2$ TM30: $R_f = 71$ $R_g = 116$

R1 =38 R2 =64 R3 =88 R4 =47 R5 =46 R6 =54 R7 =77

R8 =28 R9 =0 R10=21 R11=30 R12=49 R13=42 R14=90 R15=30

LEVEL:OUT

TLCI Parameters: TLCI = 52.3

Photometric & Radiometric Parameters

Flux = 1036.4 lm Eff. : 53.35 lm/W $Fe = 4.1318\text{ W}$

EEL: 0.24557 B

EEC: 53.3 G

Electrical parameters

V = 24.00 V I = 0.8096 A P = 19.43 W PF = 1.000

Freq=0.00 Hz

GBT5702

iPixel LED

<https://www.ipixelleds.com>