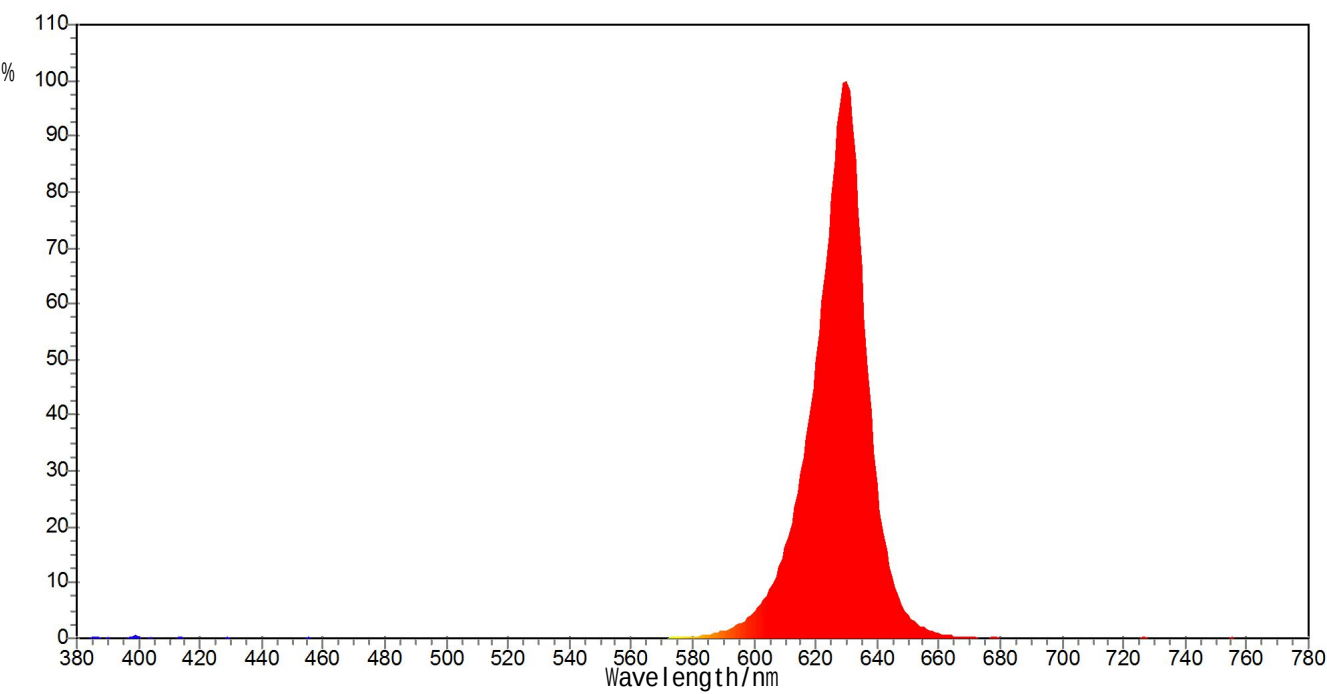
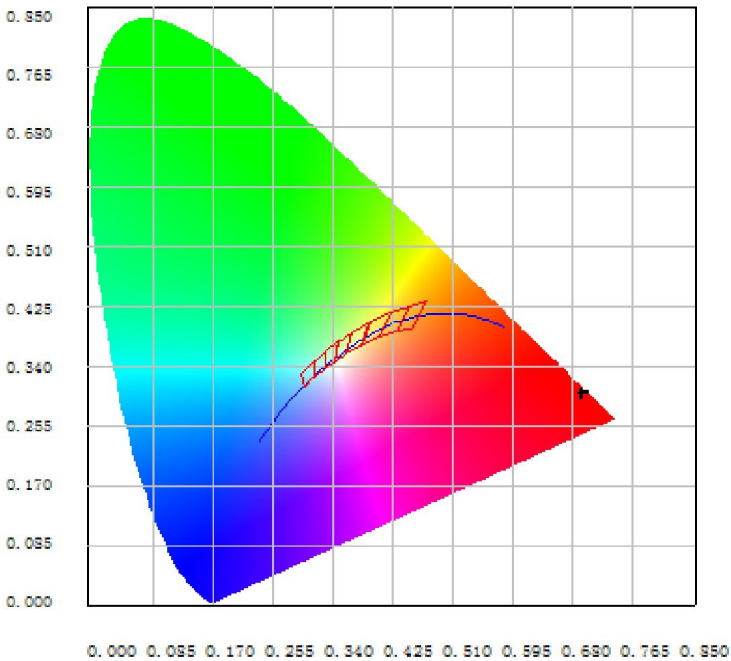


LED Photometric Colorimetric and Electric Test Report



Spectrum Parameters

x: 0.6916 y: 0.3056
u: 0.5235 v: 0.3470
WD: 621.5 nm WP: 630.3 nm
HW: 17.1 nm Purity: 0.992
CCT: 4656 K Ra: -20.8
SDCM : 195.76 DUV : -0.0012
Ratio: R%: 97.8 G%: 1.8 B%: 0.4
Kred 94.02% Kgreen 5.92% Kblue 0.06%
R1: -74.7 R2: -5.5 R3: 50.8
R4: -64.3 R5: -75.0 R6: -60.4
R7: 67.1 R8: -4.2 R9: -290.5
R10: -87.2 R11: 52.1 R12: -74.7
R13: -77.4 R14: 61.1 R15: -41.3
Rf : 0.0 Rg : 0.0



Electrical parameters

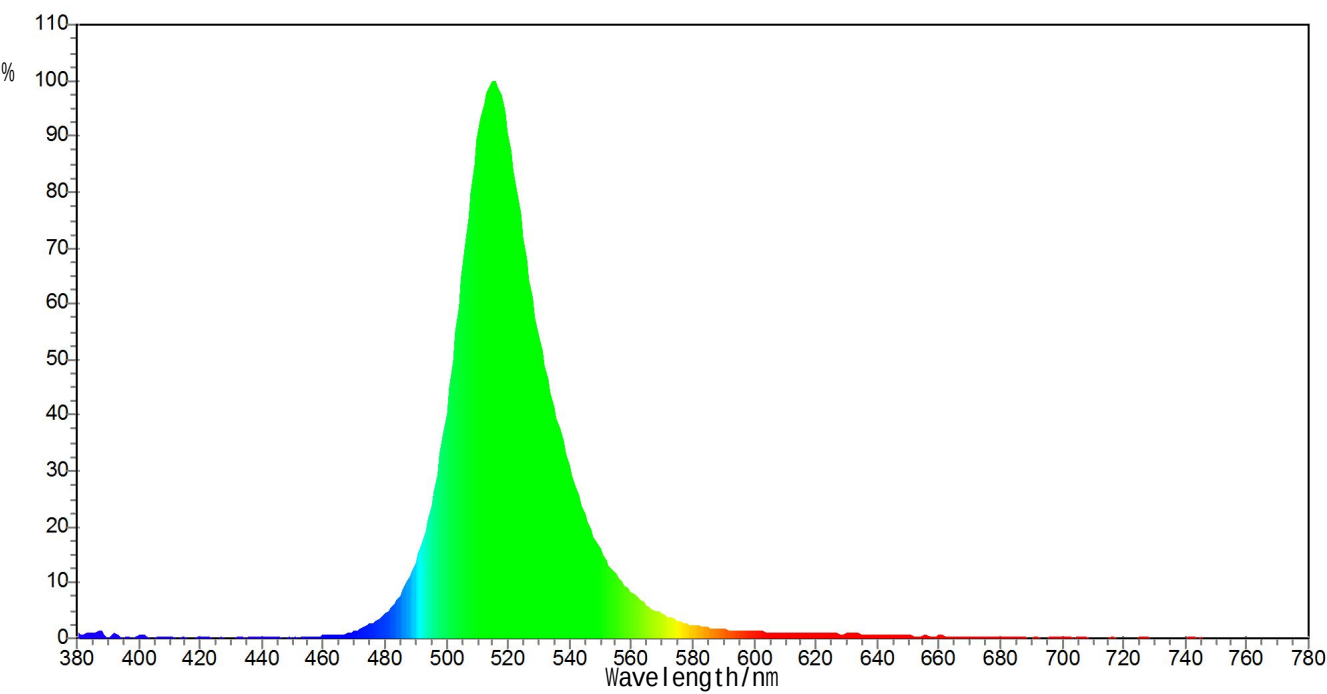
Flux: 77.277 lm E: 17.1 lm/w P: 431.48 mw
I: 2033.9 mA V: 12.00 V P: 24.407 w PF:

Memo:

5M

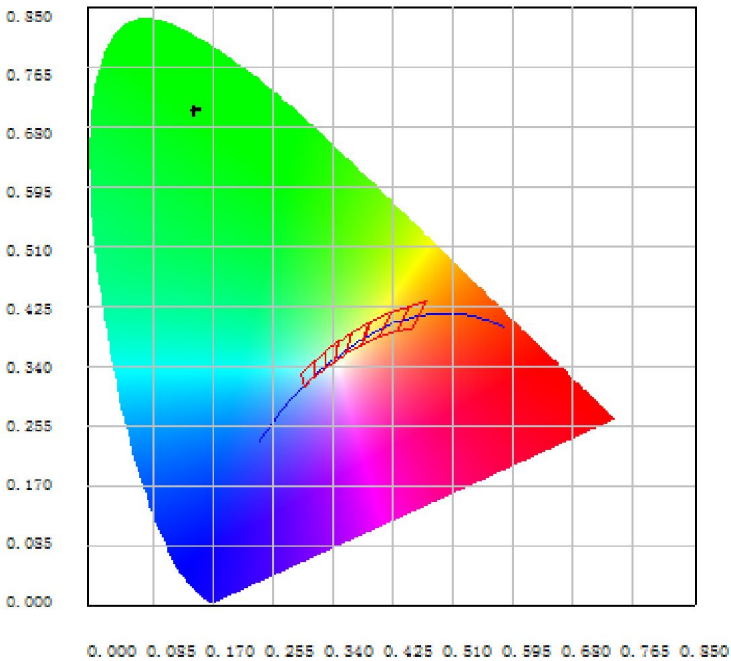
Product Mode:	N010060CB4ST RGBW R	Item No:	51800084
Tester:	LIUYUANFEN	Date:	2020-3-11
Temperature:	23 ()	Humidity:	59 (%)
Manufacturer:	iPixel LED Light Co Ltd	organization:	Quality department

LED Photometric Colorimetric and Electric Test Report



Spectrum Parameters

x: 0.1501 y: 0.7060
u: 0.0537 v: 0.3792
WD: 521.7 nm WP: 516.0 nm
HW: 29.8 nm Purity: 0.745
CCT: 8357 K Ra: -21.6
SDCM: 300.27 DUV: 0.1609
Ratio: R%: 2.0 G%: 86.7 B%: 11.3
Kred 0.66% Kgreen 94.14% Kblue 5.20%
R1: -30.2 R2: -9.4 R3: -27.2
R4: -60.7 R5: -4.1 R6: -12.3
R7: -4.0 R8: -25.0 R9: -326.7
R10: -106.5 R11: -45.4 R12: -26.4
R13: -39.3 R14: 37.1 R15: -28.5
Rf: 0.0 Rg: 0.0



Electrical parameters

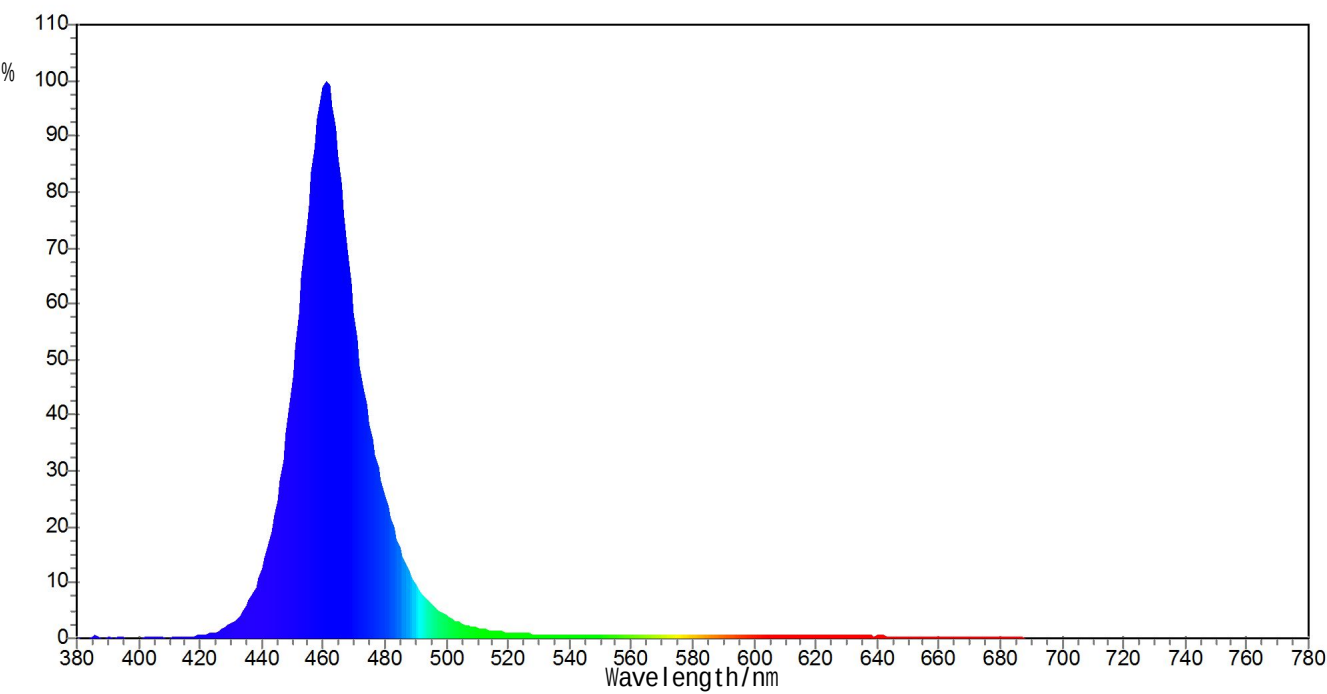
Flux: 130.457 lm E: 29.8 lm/w P: 324.07 mw
I: 1790.4 mA V: 12.00 V P: 21.485 w PF:

Memo:

5M

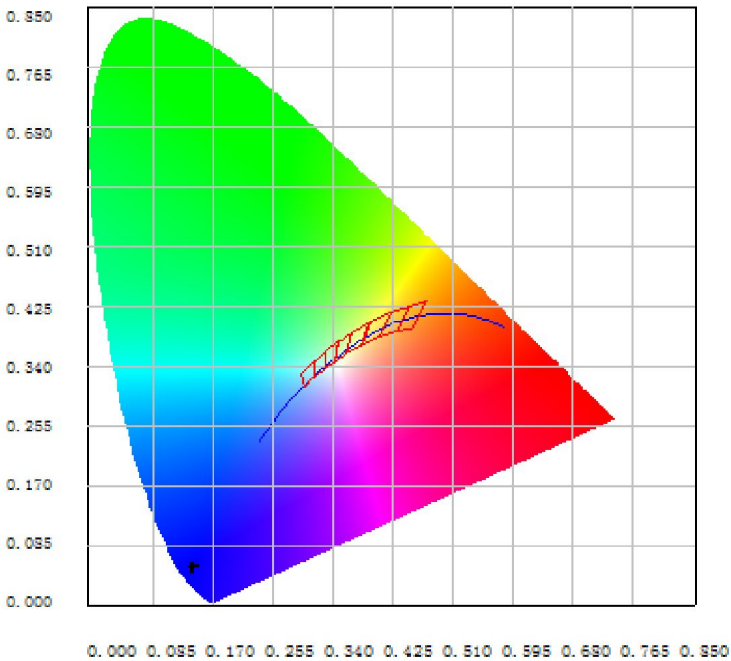
Product Mode:	N010060CB4ST RGBW G	Item No:	51800084
Tester:	LIUYUANFEN	Date:	2020-3-11
Temperature:	23 ()	Humidity:	59 (%)
Manufacturer:	iPixel LED Light Co Ltd	organization:	Quality department

LED Photometric Colorimetric and Electric Test Report



Spectrum Parameters

x: 0.1465 y: 0.0592
u: 0.1715 v: 0.1039
WD: 465.6 nm WP: 461.7 nm
HW: 21.4 nm Purity: 0.939
CCT: 1678 K Ra: -71.3
SDCM: 161.78 DUV: -0.1226
Ratio: R%: 1.8 G%: 3.5 B%: 94.7
Kred 3.77% Kgreen 23.91% Kblue 72.31%
R1: -21.4 R2: 25.9 R3: -143.2
R4: -134.7 R5: -36.5 R6: 18.5
R7: -91.5 R8: -187.4 R9: -357.0
R10: -113.1 R11: -66.8 R12: -71.1
R13: 19.4 R14: -33.1 R15: -60.7
Rf: 0.0 Rg: 0.0



Electrical parameters

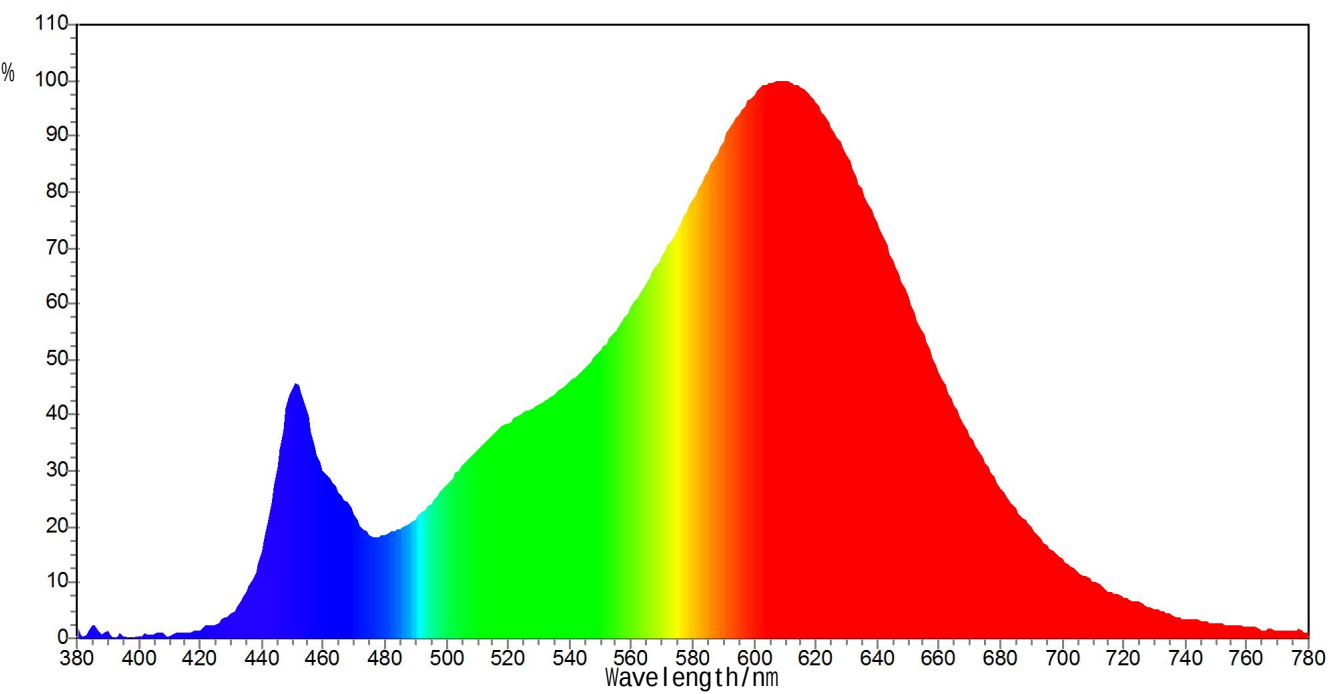
Flux: 30.270 lm E: 21.4 lm/w P: 622.44 mw
I: 1845.6 mA V: 12.00 V P: 22.147 w PF:

Memo:

5M

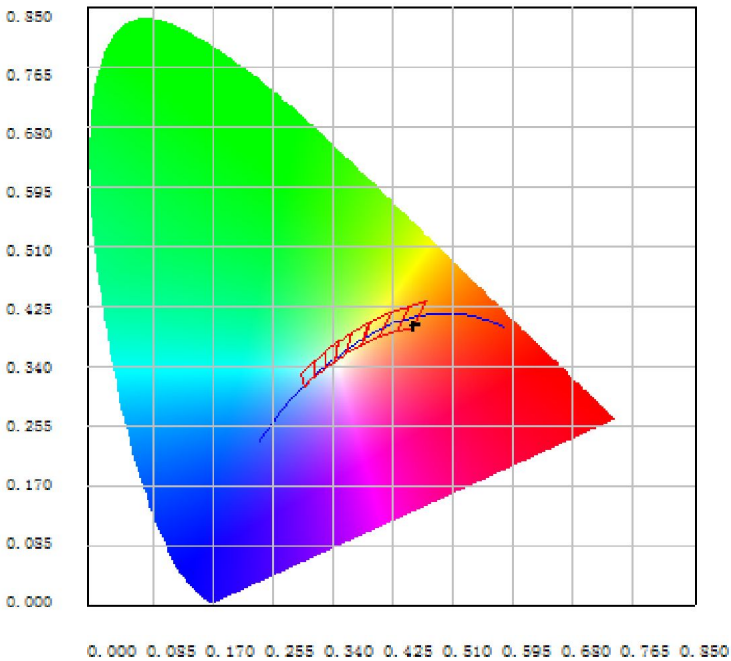
Product Mode:	N010060CB4ST RGBW B	Item No:	51800084
Tester:	LIUYUANFEN	Date:	2020-3-11
Temperature:	23 ()	Humidity:	59 (%)
Manufacturer:	iPixel LED Light Co Ltd	organization:	Quality department

LED Photometric Colorimetric and Electric Test Report



Spectrum Parameters

x: 0.4539 y: 0.4007
u: 0.2631 v: 0.3484
WD: 585.3 nm WP: 610.0 nm
HW: 110.7 nm Purity: 0.565
CCT: 2703 K Ra: 83.7
SDCM: 13.31 DUV: -0.0032
Ratio: R%: 46.8 G%: 40.5 B%: 12.7
Kred 22.81% Kgreen 74.24% Kblue 2.95%
R1: 83.1 R2: 93.8 R3: 93.8
R4: 82.6 R5: 85.6 R6: 94.7
R7: 79.0 R8: 57.4 R9: 12.4
R10: 86.7 R11: 70.4 R12: 80.1
R13: 85.6 R14: 97.6 R15: 75.0
Rf: 0.0 Rg: 0.0



Electrical parameters

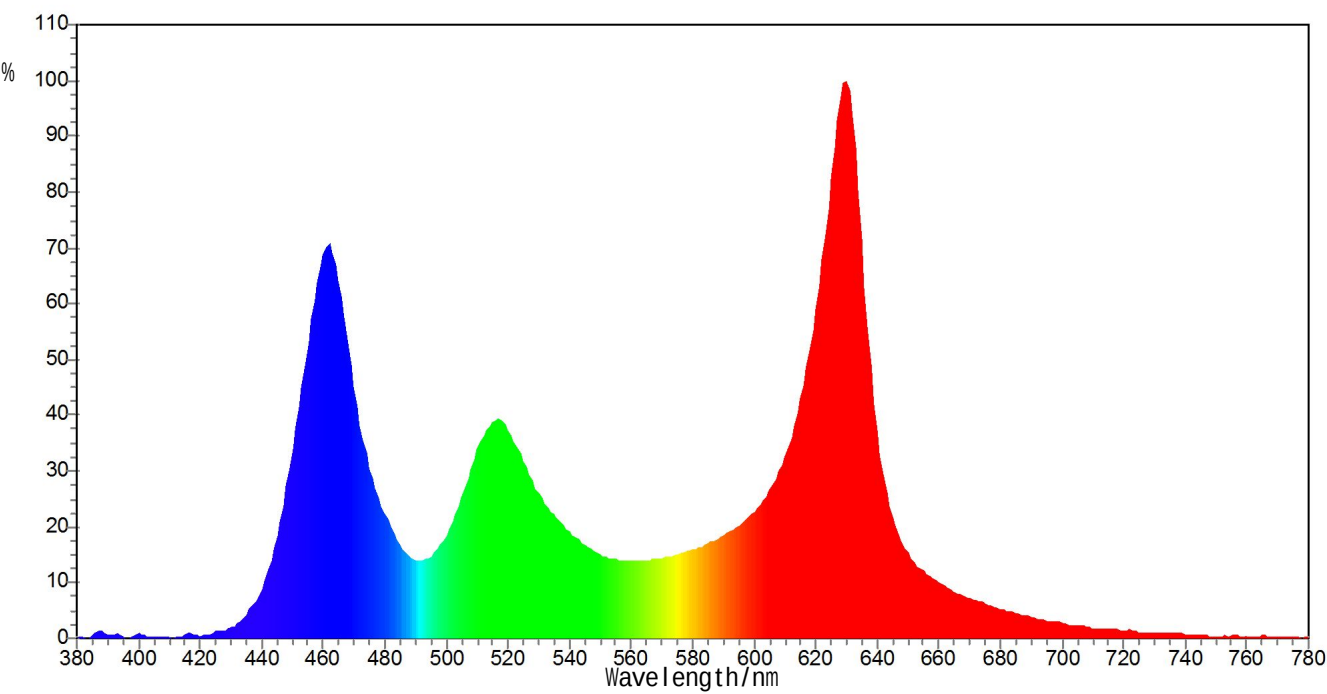
Flux: 233.976 lm E: 110.7 lm/w P: 763.69 mw
I: 1998.1 mA V: 12.00 V P: 23.977 w PF:

Memo:

5M

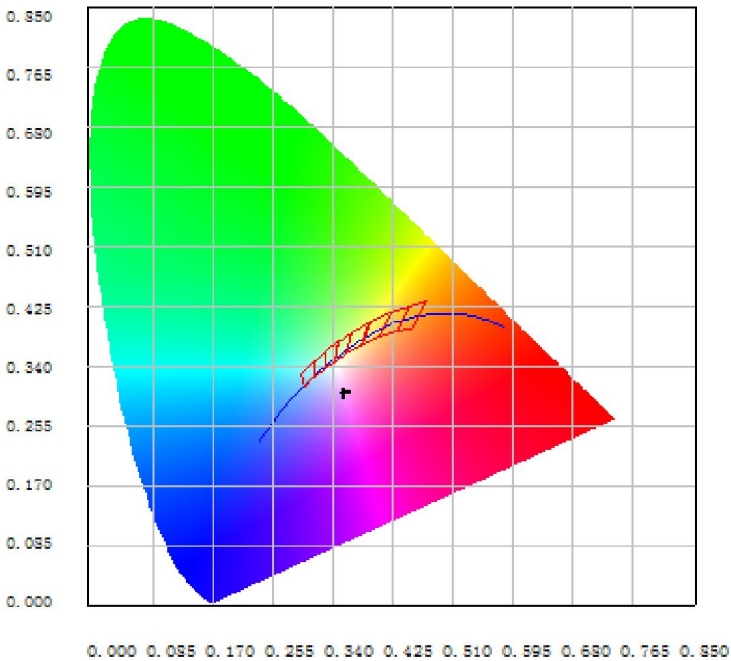
Product Mode:	N010060CB4ST RGBW 2700K	Item No:	51800084
Tester:	LIUYUANFEN	Date:	2020-3-11
Temperature:	23 ()	Humidity:	59 (%)
Manufacturer:	iPixel LED Light Co Ltd	organization:	Quality department

LED Photometric Colorimetric and Electric Test Report



Spectrum Parameters

x: 0.3593 y: 0.3054
u: 0.2417 v: 0.3082
WD: -506.5 nm WP: 630.3 nm
HW: 20.6 nm Purity: 0.157
CCT: 4141 K Ra: 46.8
SDCM: 44.14 DUV: -0.0310
Ratio: R%: 40.9 G%: 30.0 B%: 29.1
Kred 29.29% Kgreen 63.21% Kblue 7.51%
R1: 27.1 R2: 51.9 R3: 82.2
R4: 39.1 R5: 32.4 R6: 34.8
R7: 81.3 R8: 25.4 R9: -76.8
R10: -3.7 R11: 62.4 R12: 13.2
R13: 26.9 R14: 90.7 R15: 22.5
Rf: 0.0 Rg: 0.0



Electrical parameters

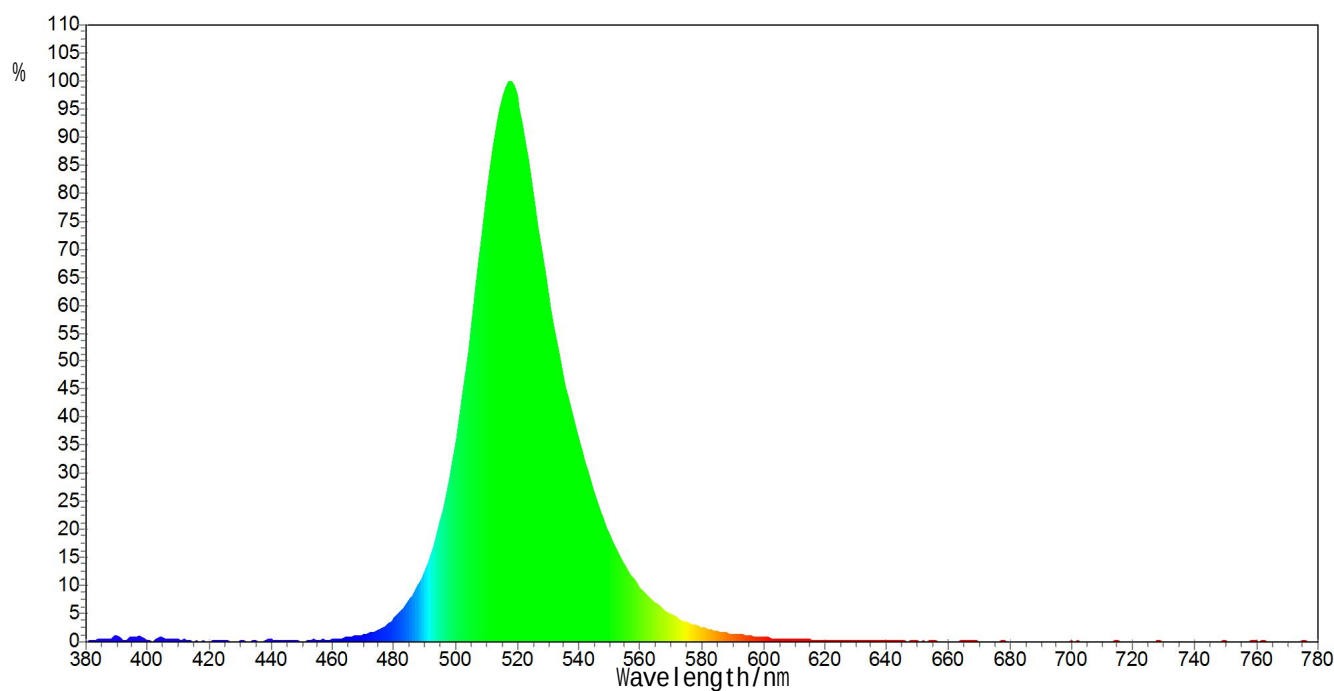
Flux: 328.791 lm E: 20.6 lm/w P: 1440.81 mw
I: 4224.0 mA V: 12.00 V P: 50.688 w PF:

Memo:

5M

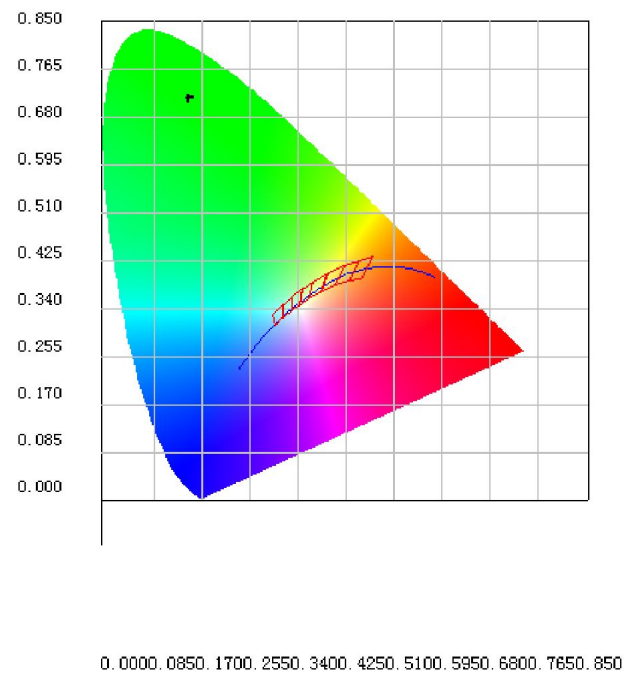
Product Mode:	N010060CB4ST RGBW 混光	Item No:	51800084
Tester:	LIUYUANFEN	Date:	2020-3-11
Temperature:	23 ()	Humidity:	59 (%)
Manufacturer:	iPixel LED Light Co Ltd	organization:	Quality department

LED Photometric Colorimetric and Electric Test Report



Spectrum Parameters

x:	0.1530	y:	0.7163			0.850
u:	0.0542	v:	0.3807			0.765
WD:	523.1 nm	WP:	518.1 nm			0.595
HW:	31.2 nm	Purity:	0.769			0.510
CCT:	8241 K	Ra:	-22.5			0.425
SDCM :	303.40	DUV :	0.1612			0.340
Ratio :	R%: 0.8	G%: 89.1	B%: 10.1			0.255
Kred	0.26%	Kgreen	95.36%	Kblue	4.38%	0.170
R1:	-35.2	R2:	-10.8	R3:	-25.1	0.085
R4:	-63.6	R5:	-7.8	R6:	-11.2	0.000
R7:	0.2	R8:	-26.9	R9:	-351.7	
R10:	-107.6	R11:	-47.7	R12:	-27.2	
R13:	-43.6	R14:	38.0	R15:	-33.2	
Rf :	0.0	Rg :	0.0			



Electrical parameters

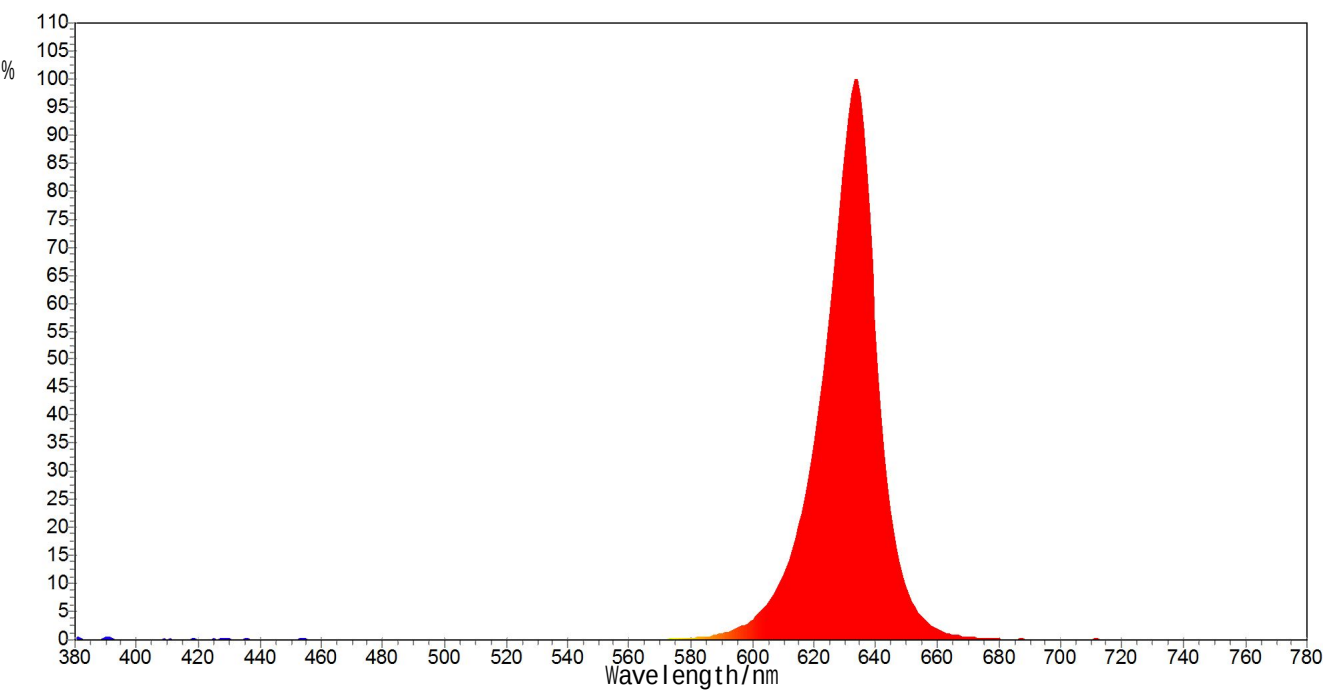
Flux:	118.449 lm	E:	67.996 lm/w	P:	269.92 mw		
I:	145.2 mA	V:	12.00 V	P:	1.742 w	PF:	

Memo:

0.35m

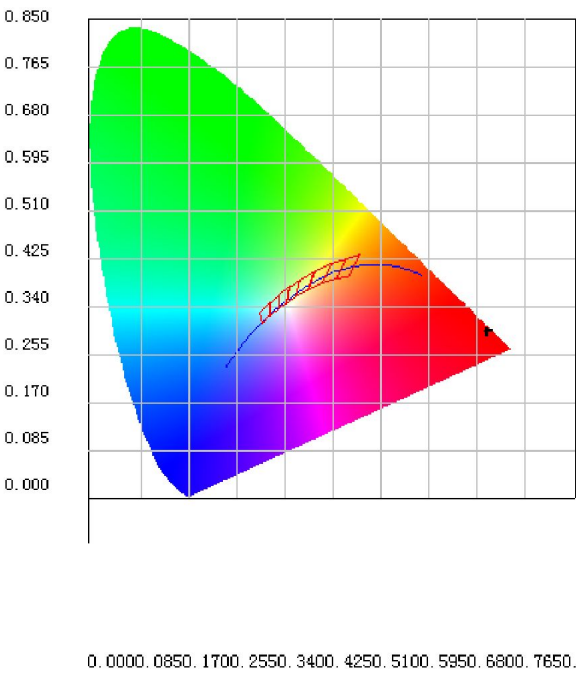
Product Mode:	N010060CB4PZ RGBW G	Item No:	10303-0137-00
Tester:	liuyuanfen	Date:	2021-11-22
Temperature:	28 ()	Humidity:	71 (%)
Manufacturer:		organization:	

LED Photometric Colorimetric and Electric Test Report



Spectrum Parameters

x: 0.6959 y: 0.3010
u: 0.5332 v: 0.3460
WD: 624.1 nm WP: 634.2 nm
HW: 17.8 nm Purity: 0.991
CCT: 4986 K Ra: -18.7
SDCM : 200.20 DUV : -0.0014
Ratio: R%: 98.1 G%: 1.5 B%: 0.4
Kred 94.68% Kgreen 5.29% Kblue 0.04%
R1: -75.4 R2: -9.8 R3: 46.3
R4: -45.1 R5: -58.8 R6: -51.9
R7: 58.4 R8: -13.3 R9: -281.8
R10: -94.1 R11: 27.3 R12: -69.8
R13: -81.3 R14: 63.6 R15: -46.7
Rf : 0.0 Rg : 0.0



Electrical parameters

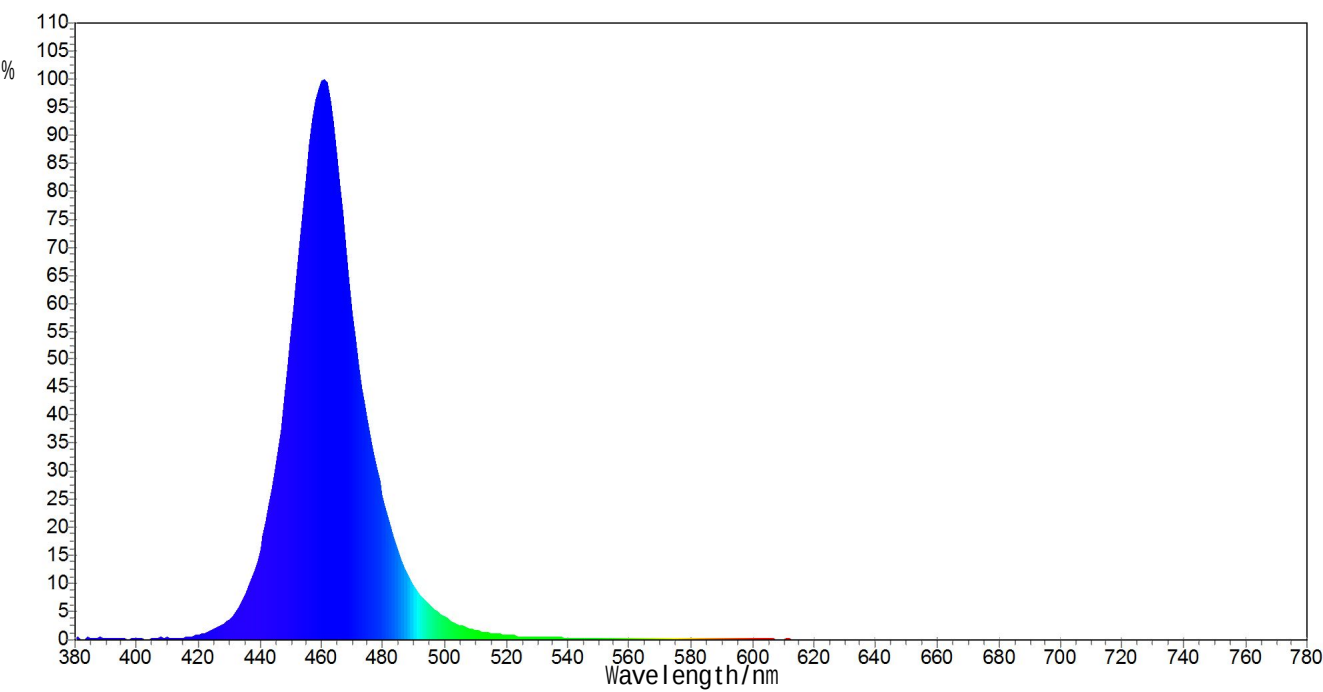
Flux: 47.543 lm E: 30.015 lm/w P: 265.40 mw
I: 132.0 mA V: 12.00 V P: 1.584 w PF:

Memo:

0.35m

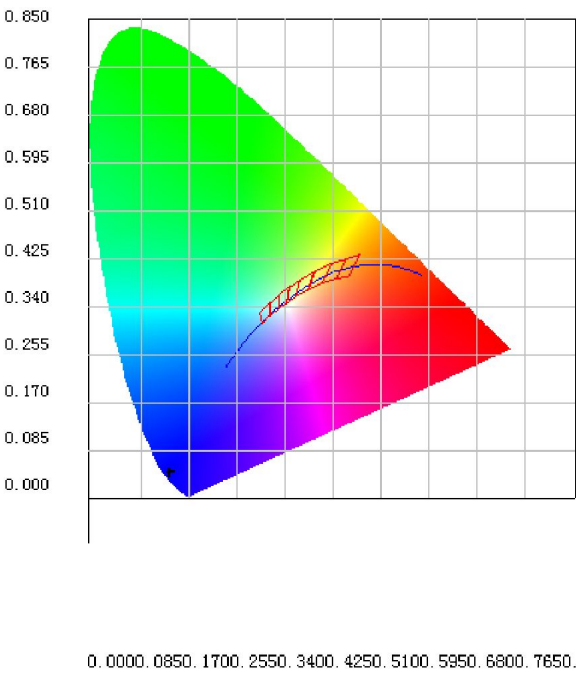
Product Mode:	N010060CB4PZ RGBW R	Item No:	10303-0137-00
Tester:	liuyuanfen	Date:	2021-11-22
Temperature:	28 ()	Humidity:	71 (%)
Manufacturer:		organization:	

LED Photometric Colorimetric and Electric Test Report



Spectrum Parameters

x: 0.1413 y: 0.0502
u: 0.1703 v: 0.0907
WD: 465.3 nm WP: 461.0 nm
HW: 22.5 nm Purity: 0.968
CCT: 1647 K Ra: -76.4
SDCM : 165.38 DUV : -0.1247
Ratio: R%: 0.4 G%: 2.3 B%: 97.3
Kred 0.81% Kgreen 15.36% Kblue 83.84%
R1: -62.1 R2: 26.9 R3: -105.4
R4: -144.1 R5: -67.8 R6: 9.1
R7: -73.7 R8: -194.4 R9: -475.7
R10: -73.2 R11: -70.1 R12: -93.1
R13: -25.6 R14: -14.7 R15: -96.1
Rf : 0.0 Rg : 0.0



Electrical parameters

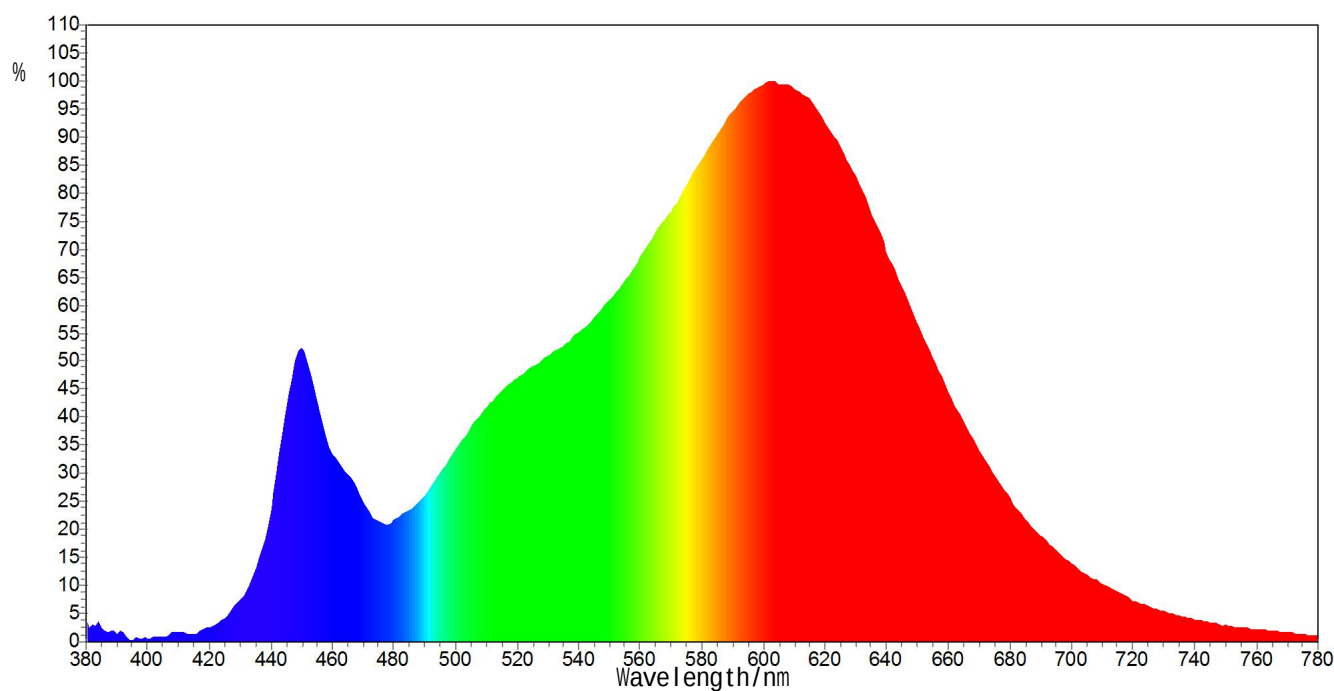
Flux: 25.252 lm E: 14.037 lm/w P: 525.72 mw
I: 149.9 mA V: 12.00 V P: 1.799 w PF:

Memo:

0.35m

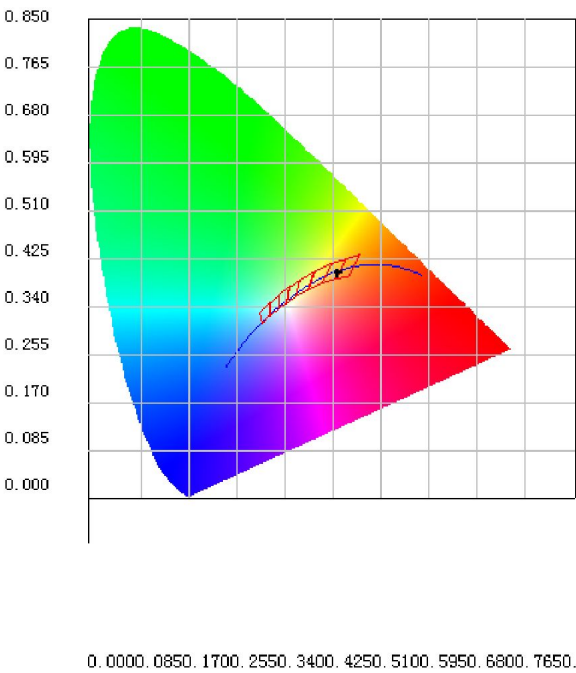
Product Mode:	N010060CB4PZ RGBW B	Item No:	10303-0137-00
Tester:	liuyuanfen	Date:	2021-11-22
Temperature:	28 ()	Humidity:	71 (%)
Manufacturer:		organization:	

LED Photometric Colorimetric and Electric Test Report



Spectrum Parameters

x: 0.4347 y: 0.4039
u: 0.2492 v: 0.3473
WD: 582.6 nm WP: 603.3 nm
HW: 127.7 nm Purity: 0.517
CCT: 3042 K Ra: 83.2
SDCM : 0.47 DUV : 0.0002
Ratio : R%: 42.3 G%: 43.2 B%: 14.5
Kred 20.14% Kgreen 76.65% Kblue 3.22%
R1: 80.9 R2: 90.6 R3: 97.1
R4: 82.8 R5: 83.5 R6: 91.1
R7: 81.4 R8: 58.2 R9: 7.3
R10: 79.7 R11: 74.5 R12: 72.3
R13: 82.7 R14: 99.1 R15: 72.8
Rf : 0.0 Rg : 0.0



Electrical parameters

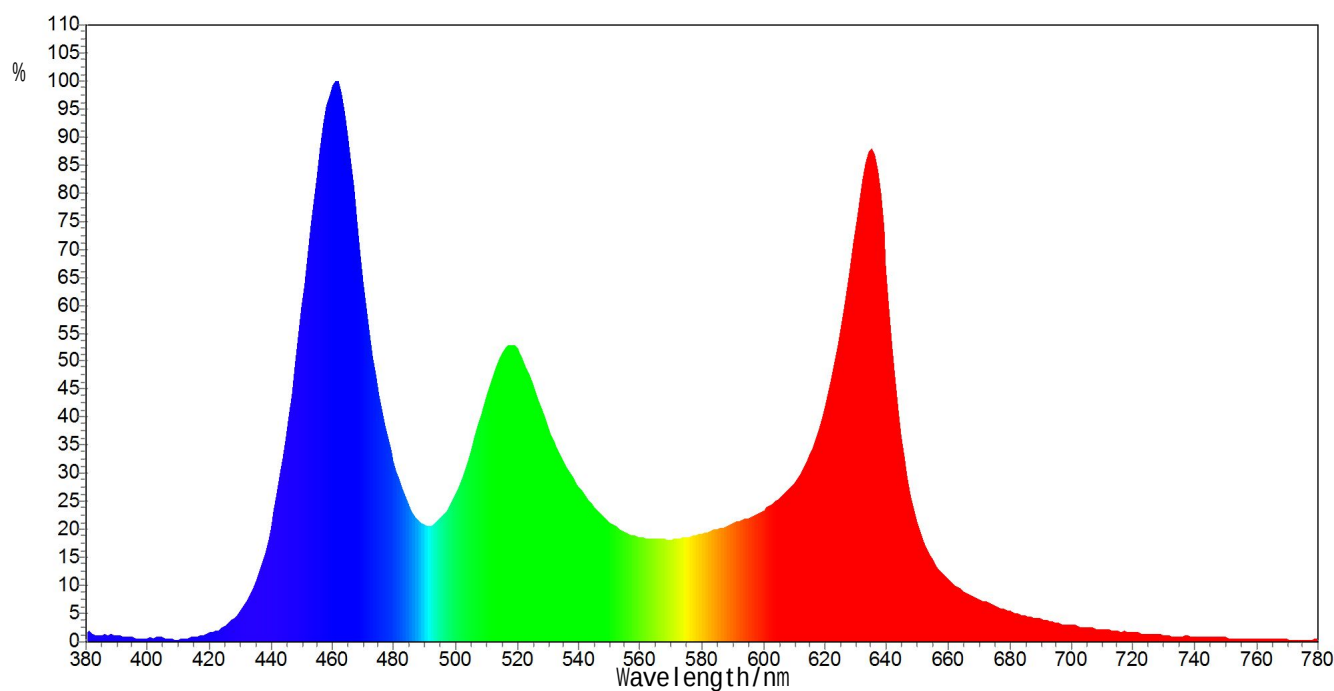
Flux: 160.924 lm E: 84.519 lm/w P: 507.84 mw
I: 158.7 mA V: 12.00 V P: 1.904 w PF:

Memo:

0.35m

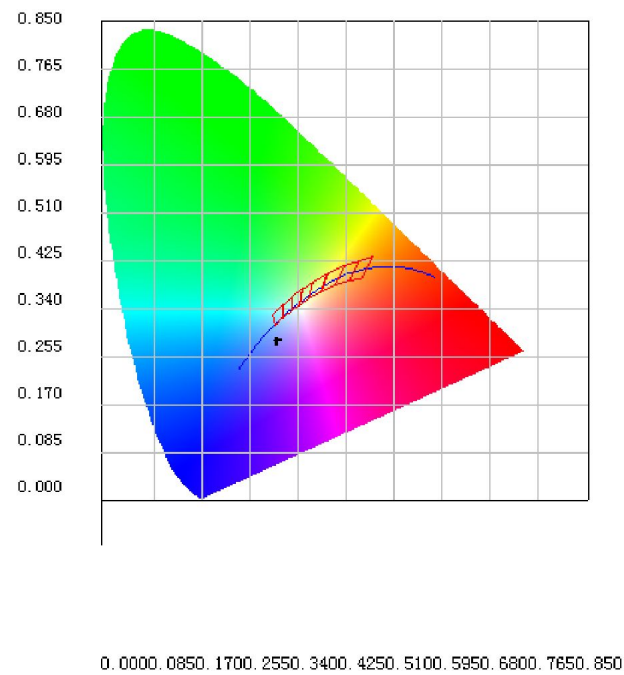
Product Mode:	N010060CB4PZ RGBW 2500-3200K	Item No:	10303-0137-00
Tester:	liuyuanfen	Date:	2021-11-22
Temperature:	28 ()	Humidity:	71 (%)
Manufacturer:		organization:	

LED Photometric Colorimetric and Electric Test Report



Spectrum Parameters

x:	0.3064	y:	0.2877						0.850
									0.765
u:	0.2099	v:	0.2956						0.680
									0.595
WD:	455.4 nm	WP:	462.1 nm						0.510
HW:	25.5 nm	Purity:	0.147						0.425
CCT:	7460 K	Ra:	57.5						0.340
SDCM :	65.25	DUV :	-0.0161						0.255
Ratio :	R%: 32.2	G%: 31.9	B%: 35.9						0.170
									0.085
Kred	21.53%	Kgreen	69.35%	Kblue	9.13%				0.000
R1:	39.6	R2:	65.8	R3:	88.9				
R4:	50.7	R5:	52.1	R6:	62.8				
R7:	76.1	R8:	23.7	R9:	-109.6				
R10:	26.7	R11:	54.3	R12:	55.5				
R13:	42.3	R14:	89.4	R15:	28.7				
Rf :	0.0	Rg :	0.0						



Electrical parameters

Flux:	349.918 lm	E:	49.839 lm/w	P:	1554.33 mw	
I:	585.1 mA	V:	12.00 V	P:	7.021 w	PF:

Memo:

0.35m

Product Mode:	N010060CB4PZ RGBW 混光	Item No:	10303-0137-00
Tester:	liuyuanfen	Date:	2021-11-22
Temperature:	28 ()	Humidity:	71 (%)
Manufacturer:		organization:	

Spectrum Test Report

Sample :
Specification : N010060CC4PZ G
Sample No. : 10303-0173-00
Manufacturer : iPixel LED

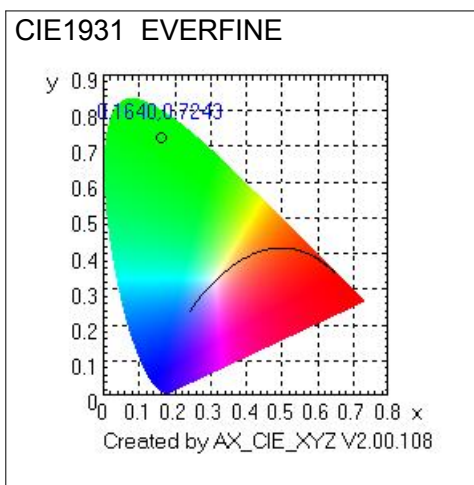
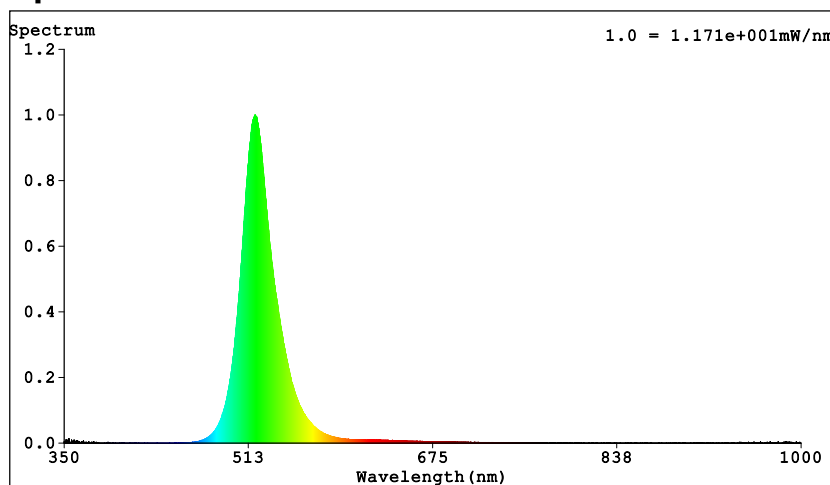
Date : 2023-10-23
Sam. Status : 5M
Instrument : HAAS-2000(EVERFINE)
Test by : DINGNANJUAN

Test Condition

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

RH : 65.0%
IP : 49703 (76%)
T : 379 ms
Sensitivity : High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.1640$ $y = 0.7243$ / $u' = 0.0577$ $v' = 0.5737$ ($duv=1.59e-01$)

CCT= 7924K Prcp WL: $L_d=525.9nm$ Purity=79.8%

Peak WL: $L_p=518nm$ FWHM: $=29.9nm$ Ratio:R=0.7% G=97.2% B=2.1%

Render Index: $R_a = 0.0$ TM30: $R_f=2$ $R_g=8$

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 = 4.0

Photometric & Radiometric Parameters

Flux = 201.93 lm Eff. : 9.78 lm/W $Fe = 430.45 mW$

EEL: 0.92192 D

EEC: 9.8 G

Electrical parameters

V = 24.00 V I = 0.8605 A P = 20.65 W PF = 1.000

Freq=0.00 Hz

GBT5702

iPixel LED

<https://www.ipixelleds.com>

Spectrum Test Report

Sample :
Specification : N010060CC4PZ R
Sample No. : 10303-0173-00
Manufacturer : iPixel LED

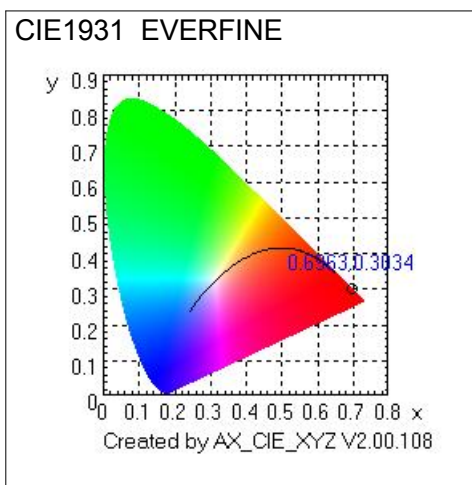
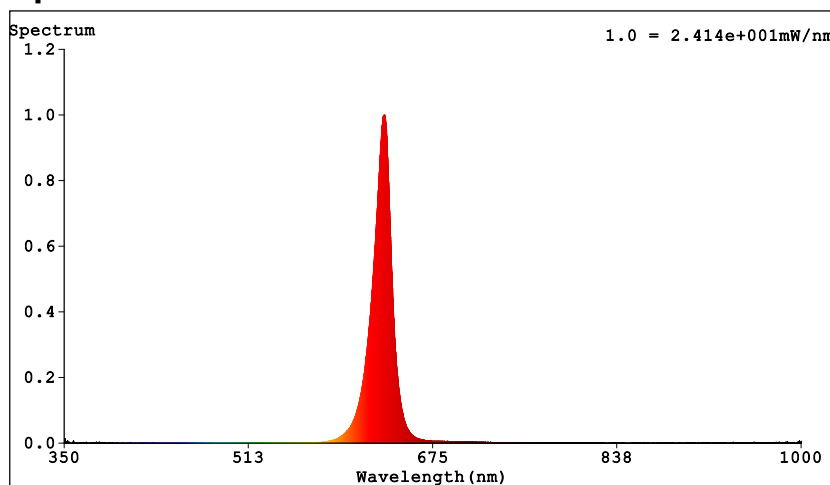
Date : 2023-10-23
Sam. Status : 5M
Instrument : HAAS-2000(EVERFINE)
Test by : DINGNANJUAN

Test Condition

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

RH : 65.0%
IP : 40501 (62%)
T : 189 ms
Sensitivity : High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.6963$ $y = 0.3034$ / $u' = 0.5307$ $v' = 0.5203$ ($duv = -8.31e-02$)

CCT= 1001K Prcp WL: Ld=622.6nm Purity=99.9%

Peak WL: Lp=633nm FWHM: =16.9nm Ratio:R=96.1% G=3.9% B=-0.0%

Render Index: Ra = 26.0 TM30:Rf=1 Rg=0

R1 =6 R2 =77 R3 =31 R4 =0 R5 =0 R6 =88 R7 =6

R8 =0 R9 =0 R10=70 R11=0 R12=79 R13=28 R14=60 R15=0

LEVEL:OUT

TLCI Parameters: TLCI = 3.3

Photometric & Radiometric Parameters

Flux = 96.299 lm Eff. : 4.61 lm/W Fe = 507.26 mW

EEL: 1.56503 E Lowest

EEC: 4.6 G

Electrical parameters

V = 24.00 V I = 0.8709 A P = 20.90 W PF = 1.000

Freq=0.00 Hz

GBT5702

iPixel LED

<https://www.ipixelleds.com>

Spectrum Test Report

Sample :
Specification : N010060CC4PZ B
Sample No. : 10303-0173-00
Manufacturer : iPixel LED

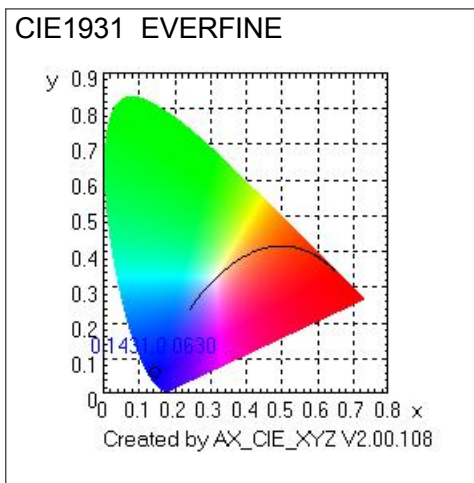
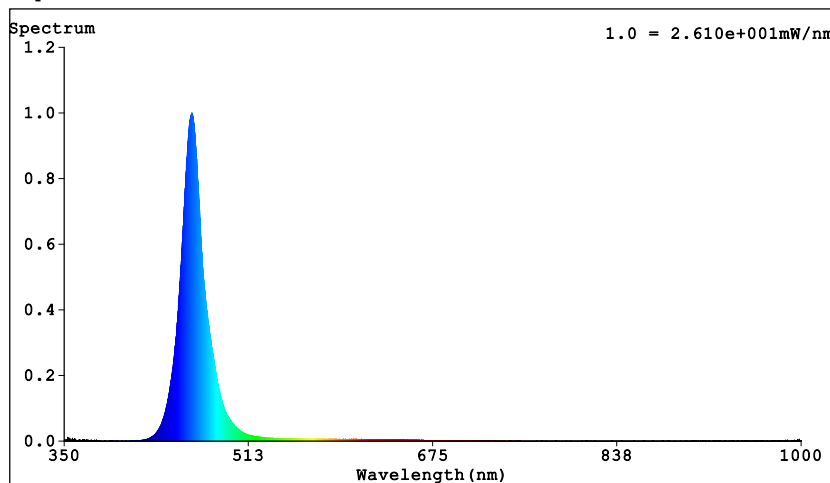
Date : 2023-10-23
Sam. Status : 5M
Instrument : HAAS-2000(EVERFINE)
Test by : DINGNANJUAN

Test Condition

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

RH : 65.0%
IP : 41018 (63%)
T : 189 ms
Sensitivity : High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.1431$ $y = 0.0630$ / $u' = 0.1650$ $v' = 0.1634$ ($duv = -1.58e-01$)

CCT>=100000K Prcp WL: Ld=467.1nm Purity=94.1%

Peak WL: Lp=463nm FWHM: =20.3nm Ratio:R=3.1% G=25.0% B=72.0%

Render Index: Ra = 7.6 TM30:Rf=0 Rg=288

R1 =26 R2 =0 R3 =0 R4 =0 R5 =35 R6 =0 R7 =0

R8 =0 R9 =0 R10=0 R11=0 R12=0 R13=8 R14=0 R15=29

LEVEL:OUT

TLCI Parameters: TLCI = 3.3

Photometric & Radiometric Parameters

Flux = 50.510 lm Eff. : 2.30 lm/W Fe = 696.80 mW

EEL: 2.51989 E Lowest

EEC: 2.3 G

Electrical parameters

V = 24.00 V I = 0.9166 A P = 22.00 W PF = 1.000

Freq=0.00 Hz

GBT5702

iPixel LED

<https://www.ipixelleds.com>

Spectrum Test Report

Sample :
Specification : N010060CC4PZ 5500K
Sample No. : 10303-0173-00
Manufacturer : iPixel LED

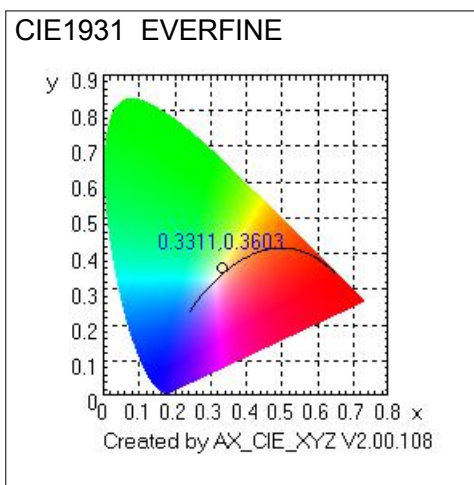
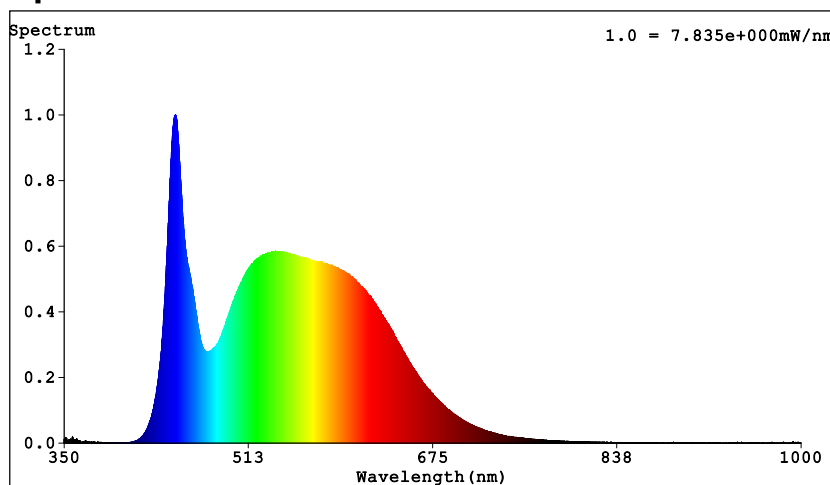
Date : 2023-10-23
Sam. Status : 5M
Instrument : HAAS-2000(EVERFINE)
Test by : DINGNANJUAN

Test Condition

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

RH : 65.0%
IP : 49123 (75%)
T : 887 ms
Sensitivity : High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.3311$ $y = 0.3603$ / $u' = 0.1988$ $v' = 0.4868$ ($duv=1.01e-02$)

CCT= 5558K Prpc WL: $L_d=550.3nm$ Purity=7.5%

Peak WL: $L_p=448nm$ FWHM: $=22.0nm$ Ratio:R=14.4% G=80.6% B=5.0%

Render Index: $R_a = 84.2$ TM30:Rf=87 Rg=95

R1 =81 R2 =87 R3 =93 R4 =85 R5 =82 R6 =84 R7 =90

R8 =71 R9 =14 R10=70 R11=84 R12=63 R13=82 R14=96 R15=75

LEVEL:OUT

TLCI Parameters: TLCI = 79.1

Photometric & Radiometric Parameters

Flux = 298.25 lm Eff. : 12.55 lm/W Fe = 935.89 mW

EEL: 0.79694 C

EEC: 12.6 G

Electrical parameters

V = 24.00 V I = 0.9900 A P = 23.76 W PF = 1.000

Freq=0.00 Hz

GBT5702

iPixel LED

<https://www.ipixelleds.com>

Spectrum Test Report

Sample :
Specification : N010060CC4PZ Mixed
Sample No. : 10303-0173-00
Manufacturer : iPixel LED

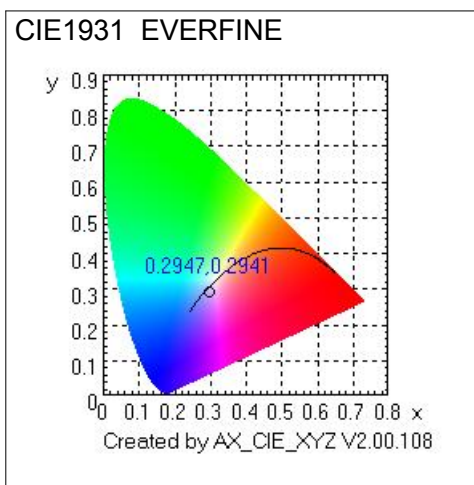
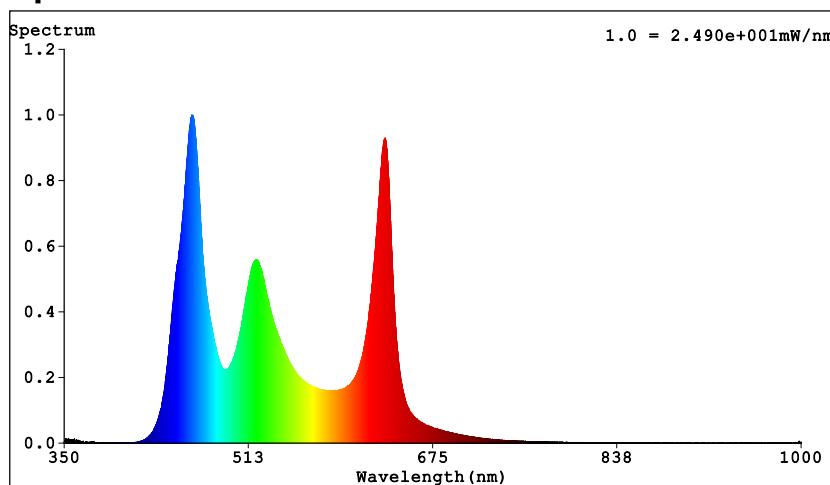
Date : 2023-10-23
Sam. Status : 5M
Instrument : HAAS-2000(EVERFINE)
Test by : DINGNANJUAN

Test Condition

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

RH : 65.0%
IP : 45915 (70%)
T : 221 ms
Sensitivity : High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.2947$ $y = 0.2941$ / $u' = 0.1984$ $v' = 0.4456$ ($duv = -5.49e-03$)

CCT= 8350K Prpc WL: $L_d = 476.7\text{nm}$ Purity=16.9%

Peak WL: $L_p = 463\text{nm}$ FWHM: $=25.8\text{nm}$ Ratio: R=21.2% G=70.2% B=8.6%

Render Index: $R_a = 62.4$ TM30: $R_f = 71$ $R_g = 114$

R1 =49 R2 =74 R3 =87 R4 =58 R5 =60 R6 =70 R7 =74

R8 =27 R9 =0 R10=44 R11=47 R12=66 R13=53 R14=89 R15=37

LEVEL:OUT

TLCI Parameters: TLCI = 47.1

Photometric & Radiometric Parameters

Flux = 544.15 lm Eff. : 7.50 lm/W $F_e = 2.1508\text{ W}$

EEL: 1.53722 E Lowest

EEC: 7.5 G

Electrical parameters

V = 24.00 V I = 3.023 A P = 72.54 W PF = 1.000

Freq=0.00 Hz

GBT5702

iPixel LED

<https://www.ipixelleds.com>