

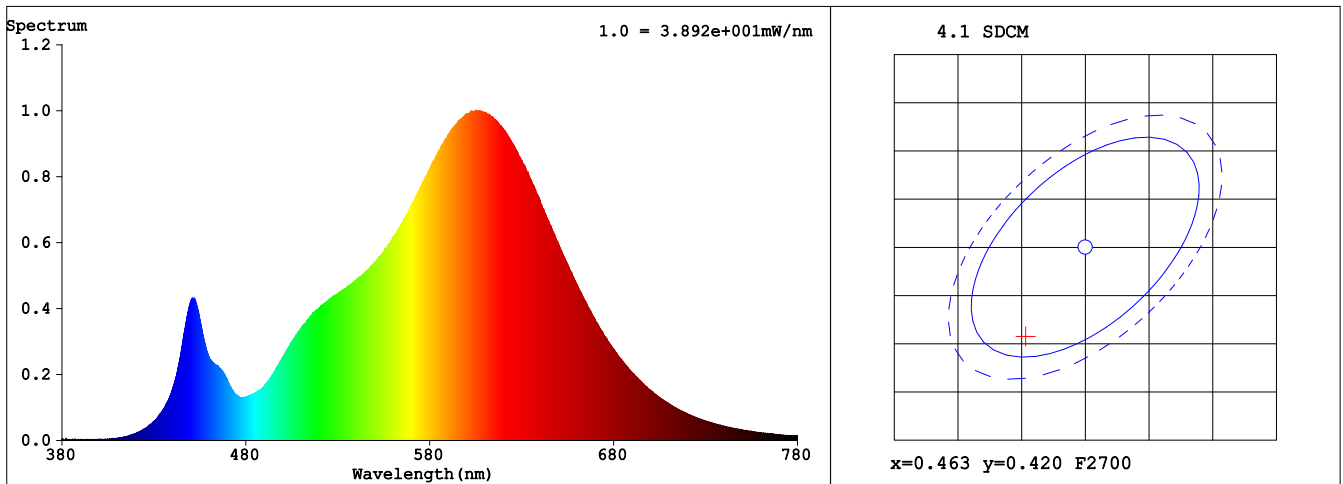
Spectrum Test Report

Sample	:		Date	:	2023-10-09 11:43:12
Specification	:	LL286-12S4P--280*20MM-21045	Standardtus	:	
Sample No.	:	2700K	Instrument	:	HaasSuite(EVERFINE)
Manufacturer	:		Test by	:	DAMIN
Assessor	:	damin			
Remark	:				

Test Condition

Temperature	:	25.3Deg	RH	:	65.0%
WL Range	:	380nm-780nm	IP	:	48880 (75%)
Test Mode	:	Accuracy Test	T	:	454 ms
Sensitivity	:	Low			

Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

Colorimetric Parameters

Chromaticity Coordinate: $x = 0.4583$ $y = 0.4107$ / $u' = 0.2614$ $v' = 0.5272$ ($duv=1.82e-04$) $Du, Dv: -0.0001, 0.0002$

CCT= 2723K Prcp WL: $L_d=584.0nm$ Purity=60.9%

Peak WL: $L_p=605nm$ FWHM: $=114.4nm$ Ratio: $R=24.8\%$ $G=73.1\%$ $B=2.0\%$

Render Index: $R_a = 81.7$

R1 =80 R2 =91 R3 =96 R4 =80 R5 =80 R6 =89 R7 =81
 R8 =56 R9 =3 R10=79 R11=79 R12=72 R13=82 R14=99 R15=72

Photometric & Radiometric Parameters

Flux = 1772.4 lm Eff. : 183.68 lm/W $F_e = 5.3864 W$

Electrical parameters

$V = 32.15 V$ $I = 0.3001 A$ $P = 9.649 W$ $PF = 1.000$ $F=0.00 Hz$

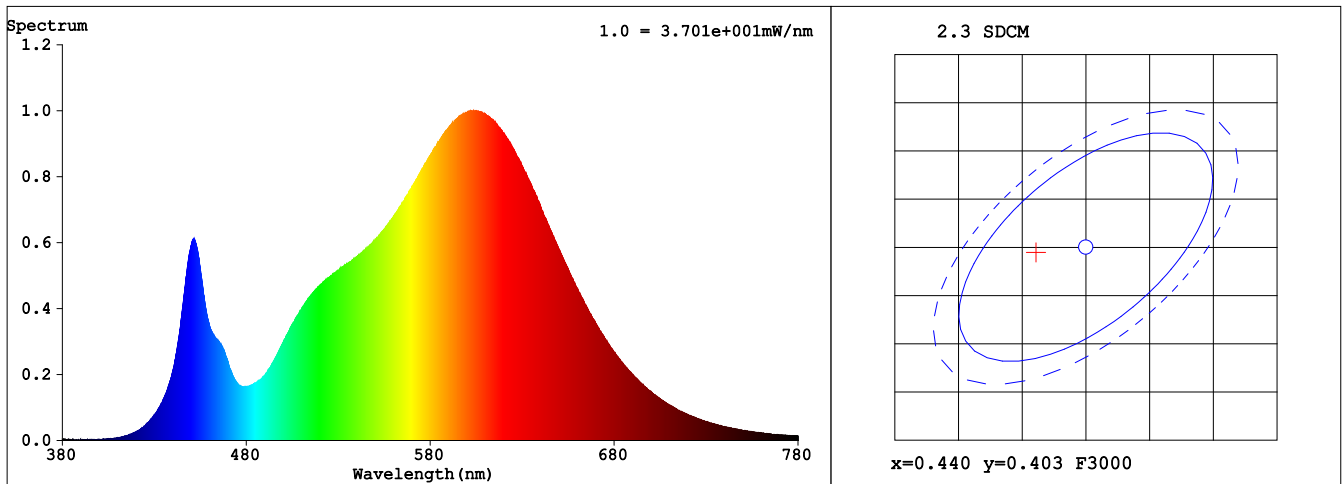
Spectrum Test Report

Sample	:	Date	:	2023-10-09 11:57:09
Specification	:	Standardtus	:	
Sample No.	:	Instrument	:	HaasSuite(EVERFINE)
Manufacturer	:	Test by	:	DAMIN
Assessor	:			
Remark	:			

Test Condition

Temperature	:	25.3Deg	RH	:	65.0%
WL Range	:	380nm-780nm	IP	:	48610 (74%)
Test Mode	:	Accuracy Test	T	:	476 ms
Sensitivity	:	Low			

Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

Colorimetric Parameters

Chromaticity Coordinate: $x = 0.4361$ $y = 0.4025$ / $u' = 0.2507$ $v' = 0.5206$ ($duv = -5.30e-04$) $Du, Dv: 0.0002, -0.0005$

CCT= 3001K Prcp WL: $L_d = 583.0nm$ Purity=51.7%

Peak WL: $L_p = 604nm$ FWHM: $= 130.3nm$ Ratio: R=23.0% G=74.7% B=2.4%

Render Index: $R_a = 82.6$

R1 =81 R2 =90 R3 =97 R4 =81 R5 =81 R6 =88 R7 =83

R8 =59 R9 =7 R10=78 R11=80 R12=69 R13=83 R14=99 R15=74

Photometric & Radiometric Parameters

Flux = 1807.1 lm Eff. : 187.38 lm/W $F_e = 5.4694 W$

Electrical parameters

V = 32.14 V I = 0.3001 A P = 9.644 W PF = 1.000 F=0.00 Hz

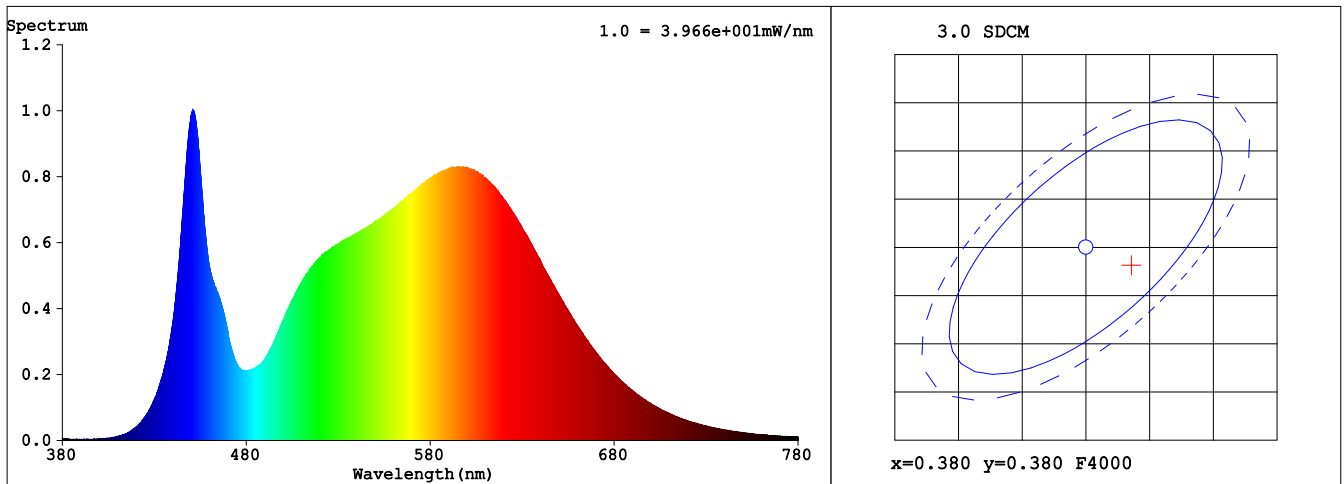
Spectrum Test Report

Sample	:		Date	:	2023-10-09 12:09:15
Specification	:	LL286-12S4P--280*20MM-21045	Standardtus	:	
Sample No.	:	4000K	Instrument	:	HaasSuite(EVERFINE)
Manufacturer	:		Test by	:	DAMIN
Assessor	:	damin			
Remark	:				

Test Condition

Temperature	:	25.3Deg	RH	:	65.0%
WL Range	:	380nm-780nm	IP	:	48499 (74%)
Test Mode	:	Accuracy Test	T	:	544 ms
Sensitivity	:	Low			

Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

Colorimetric Parameters

Chromaticity Coordinate: $x = 0.3836$ $y = 0.3781$ / $u' = 0.2266$ $v' = 0.5027$ ($duv = -2.56e-04$) $Du, Dv: 0.0001, -0.0002$

CCT= 3926K Prcp WL: $Ld=579.5nm$ Purity=28.6%

Peak WL: $Lp=451nm$ FWHM: =18.3nm Ratio:R=18.7% G=78.0% B=3.3%

Render Index: $Ra = 83.3$

R1 =82 R2 =89 R3 =94 R4 =83 R5 =82 R6 =84 R7 =87

R8 =66 R9 =12 R10=73 R11=82 R12=61 R13=84 R14=97 R15=76

Photometric & Radiometric Parameters

Flux = 1891.3 lm Eff. : 195.96 lm/W $Fe = 5.7498 W$

Electrical parameters

V = 32.16 V I = 0.3001 A P = 9.652 W PF = 1.000 F=0.00 Hz

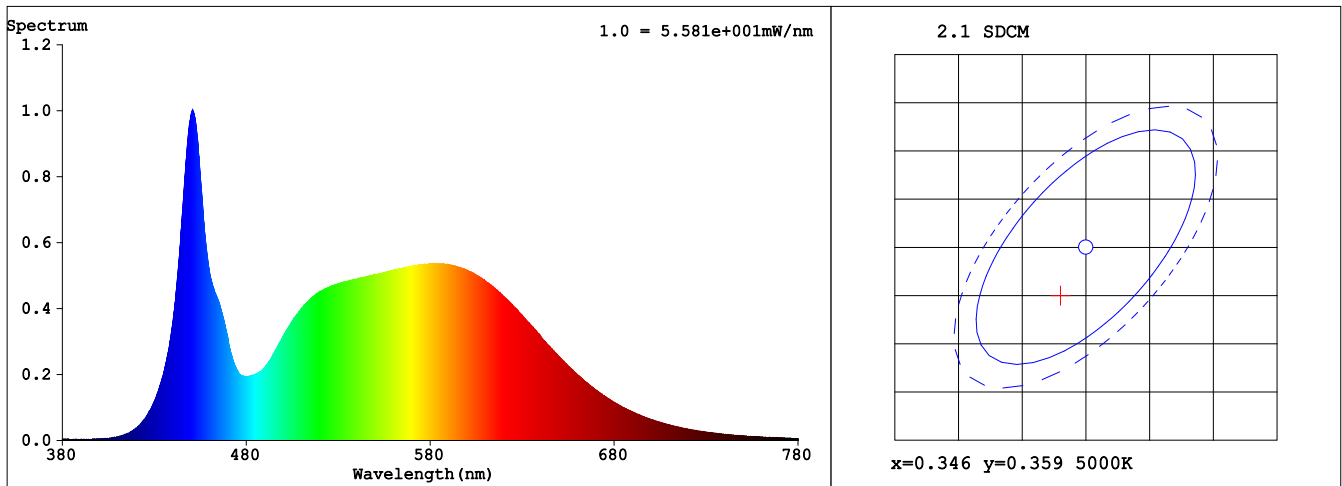
Spectrum Test Report

Sample	:	Date	:	2023-10-09 13:35:34
Specification	:	Standard	:	Standard
Sample No.	:	Instrument	:	HaasSuite(EVERFINE)
Manufacturer	:	Test by	:	DAMIN
Assessor	:			
Remark	:			

Test Condition

Temperature	:	25.3Deg	RH	:	65.0%
WL Range	:	380nm-780nm	IP	:	48833 (75%)
Test Mode	:	Accuracy Test	T	:	616 ms
Sensitivity	:	Low			

Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

Colorimetric Parameters

Chromaticity Coordinate: $x = 0.3440$ $y = 0.3540$ / $u' = 0.2098$ $v' = 0.4857$ ($duv=1.62e-03$) $Du, Dv: -0.0011, 0.0011$

CCT= 5050K Prcp WL: $L_d=570.4nm$ Purity=9.4%

Peak WL: $L_p=451nm$ FWHM: =17.7nm Ratio:R=15.7% G=80.0% B=4.4%

Render Index: $R_a = 83.1$

R1 =82 R2 =88 R3 =91 R4 =84 R5 =82 R6 =83 R7 =87

R8 =68 R9 =10 R10=70 R11=83 R12=60 R13=83 R14=95 R15=77

Photometric & Radiometric Parameters

Flux = 1903.4 lm Eff. : 197.06 lm/W $F_e = 5.9260 W$

Electrical parameters

$V = 32.17 V$ $I = 0.3002 A$ $P = 9.659 W$ PF = 1.000 F=0.00 Hz

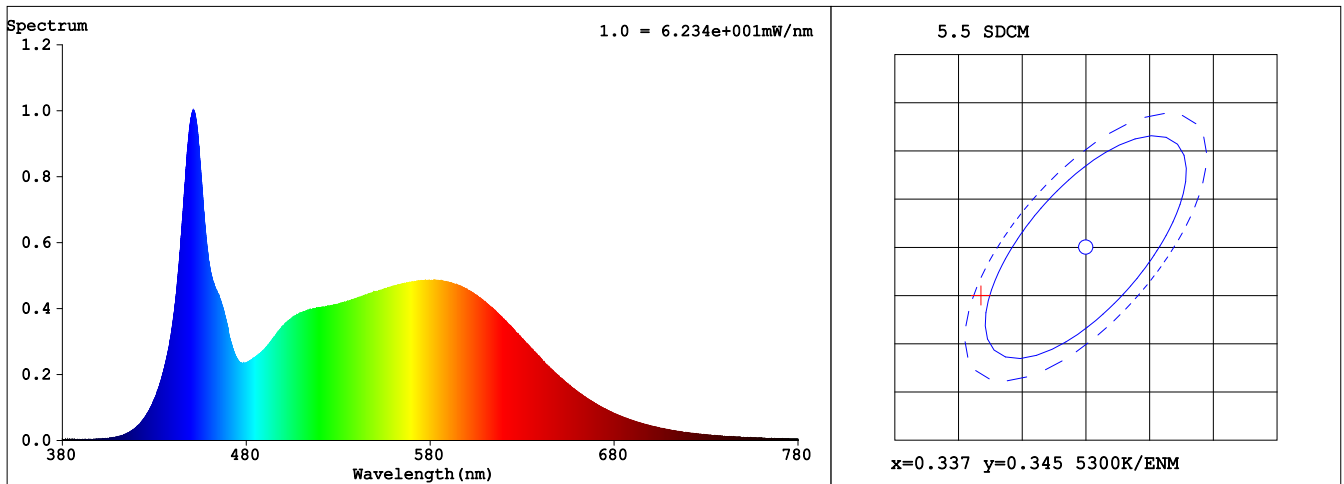
Spectrum Test Report

Sample	:		Date	:	2023-10-09 13:49:14
Specification	:	LL286-12S4P--280*20MM-21045	Standardtus	:	
Sample No.	:	5700K	Instrument	:	HaasSuite(EVERFINE)
Manufacturer	:		Test by	:	DAMIN
Assessor	:	damin			
Remark	:				

Test Condition

Temperature	:	25.3Deg	RH	:	65.0%
WL Range	:	380nm-780nm	IP	:	48205 (74%)
Test Mode	:	Accuracy Test	T	:	604 ms
Sensitivity	:	Low			

Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

Colorimetric Parameters

Chromaticity Coordinate: $x = 0.3288$ $y = 0.3400$ / $u' = 0.2048$ $v' = 0.4765$ ($duv=1.11e-03$) $Du, Dv: -0.0009, 0.0007$

CCT= 5663K Prcp WL: $Ld=512.4nm$ Purity=1.5%

Peak WL: $Lp=451nm$ FWHM: =18.2nm Ratio:R=14.7% G=79.9% B=5.4%

Render Index: $Ra = 84.2$

R1 =83 R2 =90 R3 =94 R4 =84 R5 =84 R6 =85 R7 =87

R8 =68 R9 =7 R10=76 R11=84 R12=64 R13=85 R14=97 R15=77

Photometric & Radiometric Parameters

Flux = 1920.7 lm Eff. : 199.10 lm/W $Fe = 6.0859 W$

Electrical parameters

$V = 32.15 V$ $I = 0.3001 A$ $P = 9.647 W$ PF = 1.000 F=0.00 Hz

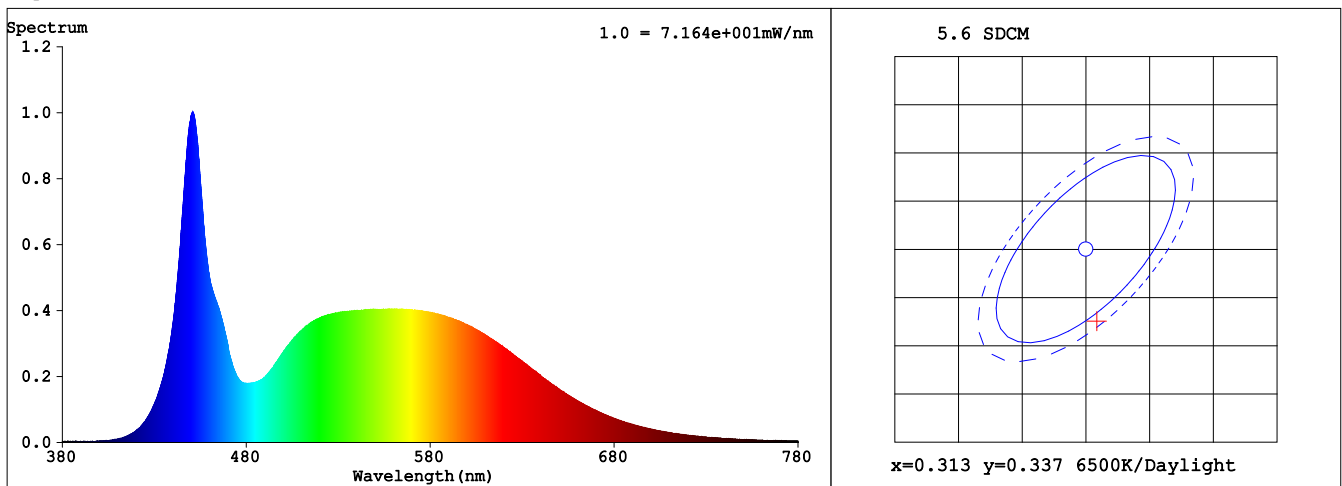
Spectrum Test Report

Sample	:	Date	:	2023-10-09 14:01:02
Specification	:	Standard	:	
Sample No.	:	Instrument	:	HaasSuite(EVERFINE)
Manufacturer	:	Test by	:	DAMIN
Assessor	:			
Remark	:			

Test Condition

Temperature	:	25.3Deg	RH	:	65.0%
WL Range	:	380nm-780nm	IP	:	46859 (72%)
Test Mode	:	Accuracy Test	T	:	529 ms
Sensitivity	:	Low			

Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

Colorimetric Parameters

Chromaticity Coordinate: $x = 0.3139$ $y = 0.3295$ / $u' = 0.1984$ $v' = 0.4688$ ($duv=2.88e-03$) $Du, Dv: -0.0023, 0.0017$

CCT= 6439K Prcp WL: $L_d=489.2nm$ Purity=6.9%

Peak WL: $L_p=451nm$ FWHM: $=17.4nm$ Ratio: R=13.5% G=81.2% B=5.3%

Render Index: $R_a = 82.9$

R1 =81 R2 =87 R3 =89 R4 =84 R5 =82 R6 =81 R7 =88

R8 =71 R9 =10 R10=67 R11=83 R12=56 R13=83 R14=94 R15=77

Photometric & Radiometric Parameters

Flux = 1887.0 lm Eff. : 195.32 lm/W $F_e = 6.0854 W$

Electrical parameters

V = 32.19 V I = 0.3001 A P = 9.661 W PF = 1.000 F=0.00 Hz