

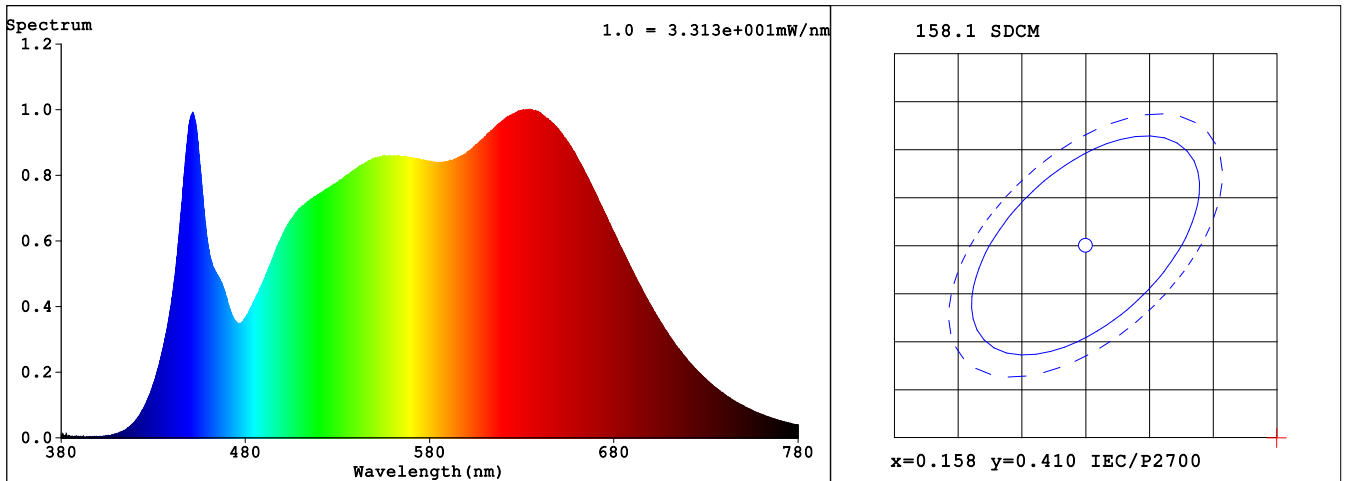
## Spectrum Test Report

Sample	: T8 TYPE A+B Ra95	Date	: 2018-05-11 13:37:38
Specification	: T8 4ft 18W TYPE A+B Ra95 4000K	Standard	: tus
Sample No.	: 180375 T8 TYPE A+B Ra95 40K A1	Instrument	: HaasSuite(EVERFINE)
Manufacturer	:	Test by	: Lr
Assessor	: damin		
Remark	:		

### Test Condition

Temperature	: 25.3Deg	RH	: 65.0%
WL Range	: 380nm-780nm	IP	: 47869 (73%)
Test Mode	: Accuracy Test	T	: 442 ms
Sensitivity	: Low		

### Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

### Colorimetric Parameters

Chromaticity Coordinate:  $x = 0.3858$   $y = 0.3862$  /  $u' = 0.2248$   $v' = 0.5065$  ( $duv=2.84e-03$ )  $Dx, Dy: 0.0021, 0.0075$

CCT= 3929K Prcp WL:  $L_d=578.0nm$  Purity=31.7%

Peak WL:  $L_p=631nm$  FWHM: =199.5nm Ratio:R=20.2% G=75.8% B=4.0%

Render Index:  $R_a = 96.1$

R1 =97	R2 =96	R3 =94	R4 =97	R5 =96	R6 =93	R7 =99	
R8 =98	R9 =91	R10=90	R11=97	R12=76	R13=96	R14=96	R15=96

### Photometric & Radiometric Parameters

Flux = 1966.7 lm Eff. : 111.18 lm/W  $F_e = 7.0487 W$

Flux of emitted photons( $\mu mol/s$ ):34.262 Flu. and blue light ratio:7.029 Fluorescent eff.:342.9

Photons1:4.807e+000  $\mu mol/s(400\sim 500nm)$  Photons2:1.461e+001  $\mu mol/s(600\sim 700nm)$

### Electrical parameters

$V = 120.00 V$   $I = 0.1500 A$   $P = 17.69 W$  PF = 0.9828 F=60.00 Hz

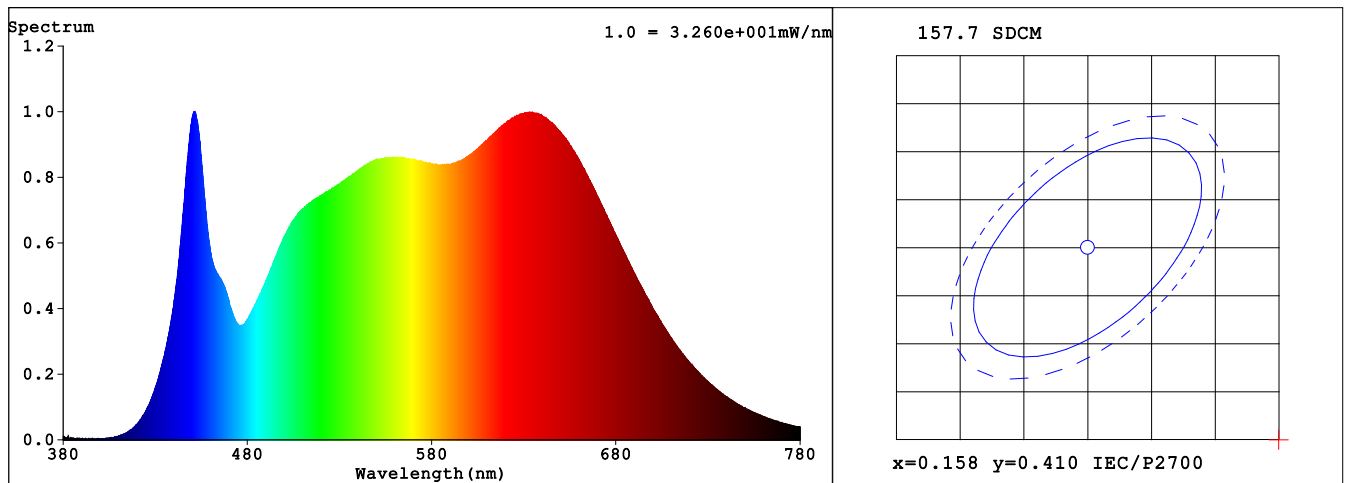
## Spectrum Test Report

Sample : T8 TYPE A+B Ra95	Date : 2018-05-11 13:40:33
Specification : T8 4ft 18W TYPE A+B Ra95 4000K	Standardtus :
Sample No. : 180375 T8 TYPE A+B Ra95 40K A2	Instrument : HaasSuite(EVERFINE)
Manufacturer :	Test by : Lr
Assessor : damin	
Remark :	

### Test Condition

Temperature : 25.3Deg	RH : 65.0%
WL Range : 380nm-780nm	IP : 47007 (72%)
Test Mode : Accuracy Test	T : 442 ms
Sensitivity : Low	

### Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

### Colorimetric Parameters

Chromaticity Coordinate:  $x = 0.3854$   $y = 0.3865$  /  $u' = 0.2245$   $v' = 0.5065$  ( $duv=3.09e-03$ )  $Dx, Dy: 0.0023, 0.0081$   
 CCT= 3942K Prcp WL:  $L_d=577.8nm$  Purity=31.6%  
 Peak WL:  $L_p=451nm$  FWHM: =22.5nm Ratio:R=20.1% G=75.8% B=4.1%

Render Index:  $R_a = 96.1$

R1 =97	R2 =96	R3 =94	R4 =97	R5 =95	R6 =93	R7 =99	
R8 =98	R9 =91	R10=89	R11=97	R12=76	R13=96	R14=96	R15=96

### Photometric & Radiometric Parameters

Flux = 1935.9 lm Eff. : 111.24 lm/W  $F_e = 6.9308 W$   
 Flux of emitted photons( $\mu mol/s$ ):33.683 Fluo. and blue light ratio:7.038 Fluorescent eff.:342.8  
 Photons1:4.732e+000  $\mu mol/s(400\sim 500nm)$  Photons2:1.434e+001  $\mu mol/s(600\sim 700nm)$

### Electrical parameters

V = 120.05 V I = 0.1475 A P = 17.40 W PF = 0.9830 F=59.98 Hz

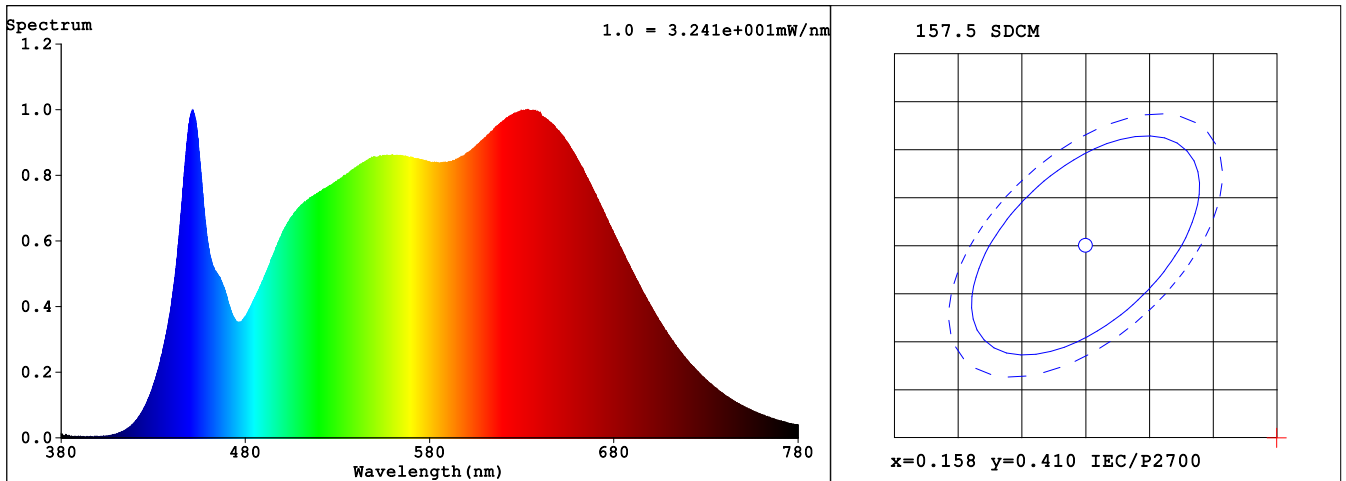
## Spectrum Test Report

Sample	: T8 TYPE A+B Ra95	Date	: 2018-05-11 13:43:45
Specification	: T8 4ft 18W TYPE A+B Ra95 4000K	Standard	: tus
Sample No.	: 180375 T8 TYPE A+B Ra95 40K A3	Instrument	: HaasSuite(EVERFINE)
Manufacturer	:	Test by	: Lr
Assessor	: damin		
Remark	:		

### Test Condition

Temperature	: 25.3Deg	RH	: 65.0%
WL Range	: 380nm-780nm	IP	: 46729 (71%)
Test Mode	: Accuracy Test	T	: 442 ms
Sensitivity	: Low		

### Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

### Colorimetric Parameters

Chromaticity Coordinate:  $x = 0.3851$   $y = 0.3866$  /  $u' = 0.2242$   $v' = 0.5065$  ( $duv=3.21e-03$ )  $Dx, Dy: 0.0024, 0.0084$

CCT= 3950K Prcp WL:  $L_d=577.7nm$  Purity=31.6%

Peak WL:  $L_p=633nm$  FWHM: =199.7nm Ratio:R=20.1% G=75.8% B=4.1%

Render Index:  $R_a = 96.1$

R1 =97	R2 =96	R3 =94	R4 =97	R5 =95	R6 =93	R7 =99	
R8 =98	R9 =91	R10=90	R11=97	R12=76	R13=96	R14=96	R15=96

### Photometric & Radiometric Parameters

Flux = 1927.9 lm Eff. : 111.02 lm/W  $F_e = 6.8975 W$

Flux of emitted photons( $\mu mol/s$ ):33.513 Flu. and blue light ratio:6.983 Fluorescent eff.:341.6

Photons1:4.722e+000  $\mu mol/s(400\sim 500nm)$  Photons2:1.425e+001  $\mu mol/s(600\sim 700nm)$

### Electrical parameters

$V = 120.07 V$   $I = 0.1471 A$   $P = 17.37 W$  PF = 0.9829 F=59.98 Hz

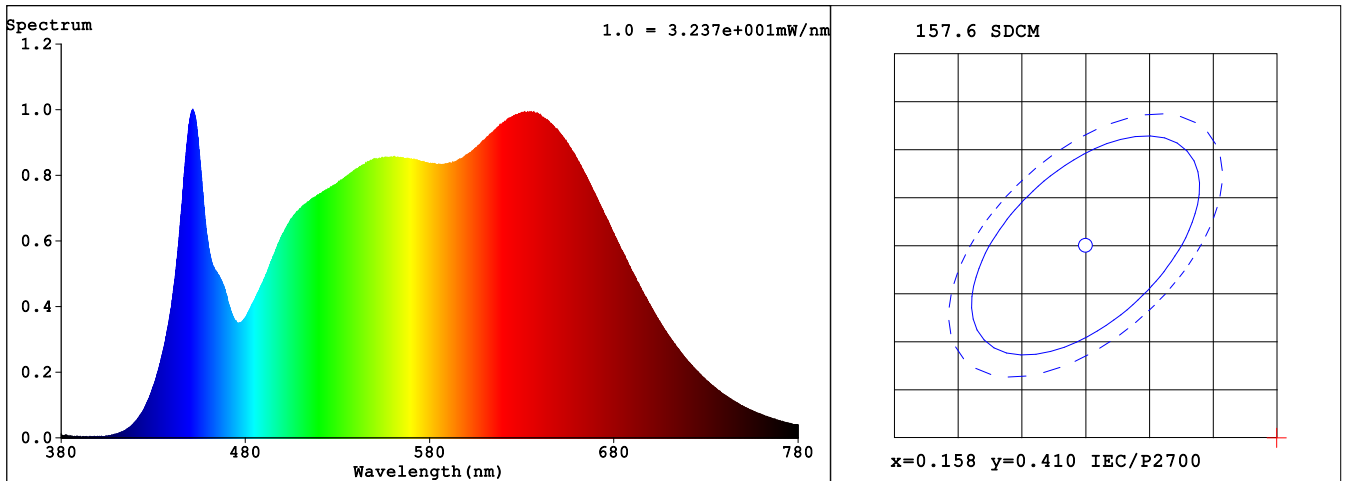
## Spectrum Test Report

Sample	: T8 TYPE A+B Ra95	Date	: 2018-05-11 13:45:55
Specification	: T8 4ft 18W TYPE A+B Ra95 4000K	Standard	: tus
Sample No.	: 180375 T8 TYPE A+B Ra95 40K A4	Instrument	: HaasSuite(EVERFINE)
Manufacturer	:	Test by	: Lr
Assessor	: damin		
Remark	:		

### Test Condition

Temperature	: 25.3Deg	RH	: 65.0%
WL Range	: 380nm-780nm	IP	: 46413 (71%)
Test Mode	: Accuracy Test	T	: 442 ms
Sensitivity	: Low		

### Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

### Colorimetric Parameters

Chromaticity Coordinate:  $x = 0.3850$   $y = 0.3861$  /  $u' = 0.2244$   $v' = 0.5063$  ( $duv=3.00e-03$ )  $Dx, Dy: 0.0022, 0.0079$

CCT= 3948K Prcp WL:  $L_d=577.8nm$  Purity=31.4%

Peak WL:  $L_p=452nm$  FWHM: =23.0nm Ratio:R=20.1% G=75.8% B=4.1%

Render Index:  $R_a = 96.2$

R1 =97 R2 =96 R3 =94 R4 =97 R5 =96 R6 =93 R7 =99

R8 =98 R9 =92 R10=90 R11=97 R12=76 R13=96 R14=96 R15=96

### Photometric & Radiometric Parameters

Flux = 1912.8 lm Eff. : 111.06 lm/W  $F_e = 6.8531 W$

Flux of emitted photons( $\mu mol/s$ ):33.301 Flu. and blue light ratio:6.963 Fluorescent eff.:342.0

Photons1:4.697e+000  $\mu mol/s(400\sim 500nm)$  Photons2:1.417e+001  $\mu mol/s(600\sim 700nm)$

### Electrical parameters

V = 120.08 V I = 0.1459 A P = 17.22 W PF = 0.9828 F=59.98 Hz