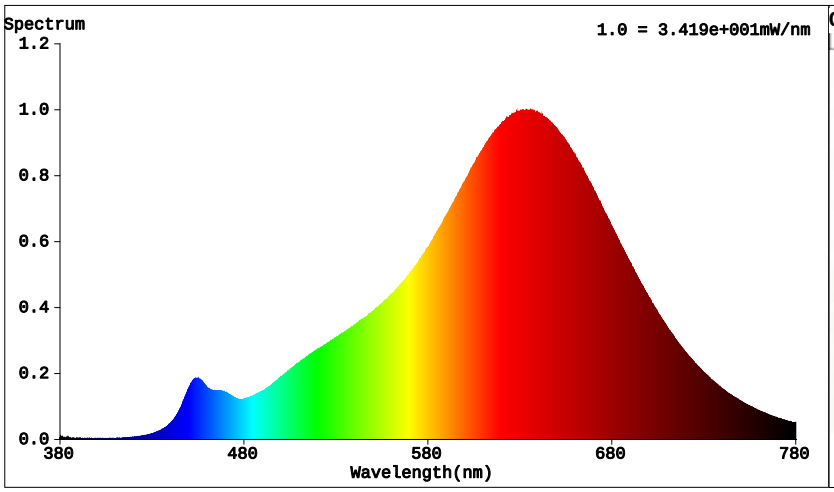
Spectrum Test Report

Sample	:	Date	: 2019-04-12 14:24:23
Specification	: FH18W-P0-G1 21X922 24V300S W10L05	Sam. Status	:
Sample No.	: 4030	Instrument	: HaasSuite(EVERFINE)
Manufacturer	:	Test by	:
Assessor	: damin		
Remark	:		

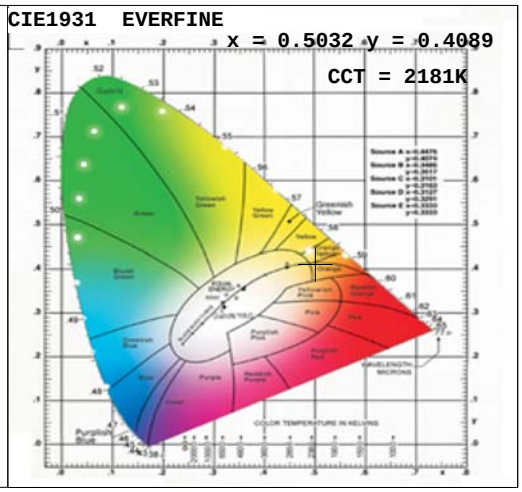
Test Condition

Temprature	: 25.3Deg	RH	: 65.0%
WL Range	: 380nm-780nm	IP	: 52851 (81%)
Test Mode	: Fast Test	T	: 118 ms
		Sensitivity	: High

Spectrum



Spectral Distribution



CIE1931 Chromaticity Diagram

Colorimetric Parameters

Chromaticity Coordinate: x = 0.5032 y = 0.4089 / u' = 0.2917 v' = 0.5333 (duv=-2.03e-03)

CCT= 2181K Prcp WL: Ld=588.1nm Purity=73.7%

Peak WL: Lp=636nm FWHM: =123.6nm Ratio:R=32.3% G=65.8% B=1.9%

Render Index: Ra = 93.9 CRI = 93.0 AvgR = 92.8 TM30:Rf=91 Rg=101

R1 =96	R2 =99	R3 =97	R4 =95	R5 =97	R6 =95	R7 =90
R8 =82	R9 =67	R10=99	R11=98	R12=89	R13=98	R14=99 R15=91

LEVEL:OUT WHITE:OUT

Photometric & Radiometric Parameters

Flux = 1234.9 lm Eff. : 64.28 lm/W Fe = 5.0459 W

Flux of emitted photons(umol/s):26.049 Fluo. and blue light ratio:24.57 Fluorescent eff.:252.4

Electrical parameters

V = 24.00 V I = 0.8005 A P = 19.21 W PF = 1.000 F=0.00 Hz

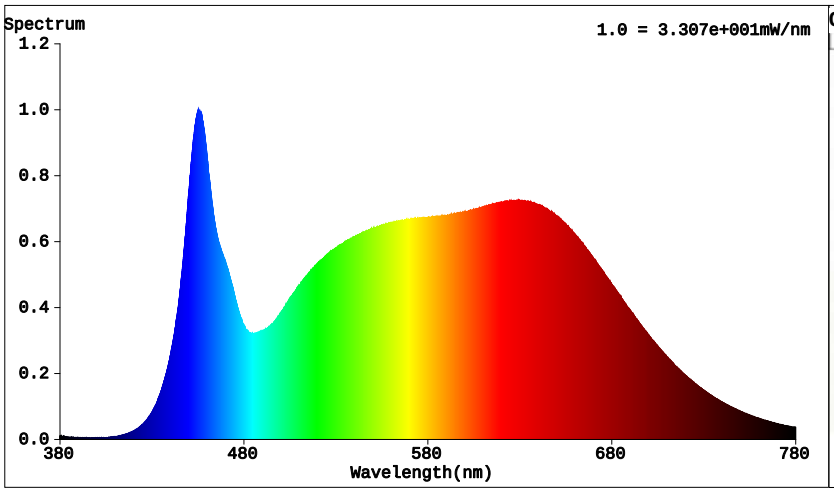
Spectrum Test Report

Sample	:	Date	: 2018-12-25 15:49:40
Specification	: FH18W-P0-G1 21X940 24V300S W10L05	Sam. Status	:
Sample No.		Instrument	: HaasSuite(EVERFINE)
Manufacturer	:	Test by	:
Assessor	: damin		
Remark	:		

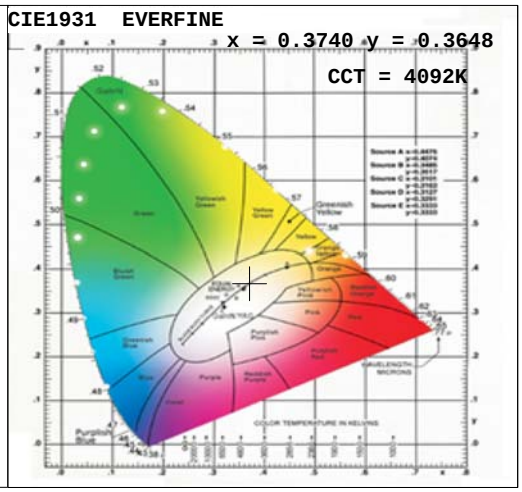
Test Condition

Temprature	: 25.3Deg	RH	: 65.0%
WL Range	: 380nm-780nm	IP	: 58819 (90%)
Test Mode	: Fast Test	T	: 166 ms
		Sensitivity	: High

Spectrum



Spectral Distribution



CIE1931 Chromaticity Diagram

Colorimetric Parameters

Chromaticity Coordinate: x = 0.3740 y = 0.3648 / u' = 0.2257 v' = 0.4952 (duv=-3.81e-03)

CCT= 4092K Prcp WL: Ld=581.3nm Purity=21.7%

Peak WL: Lp=455nm FWHM: =26.0nm Ratio:R=19.9% G=75.5% B=4.5%

Render Index: Ra = 95.1 CRI = 92.8 AvgR = 93.0 TM30:Rf=90 Rg=100

R1 =97 R2 =98 R3 =96 R4 =93 R5 =94 R6 =93 R7 =96

R8 =94 R9 =88 R10=93 R11=92 R12=69 R13=98 R14=97 R15=96

LEVEL:OUT WHITE:ANSI_4000K

Photometric & Radiometric Parameters

Flux = 1496.0 lm Eff. : 80.53 lm/W Fe = 5.4913 W

Flux of emitted photons(umol/s):26.565 Fluo. and blue light ratio:4.756 Fluorescent eff.:244.3

Electrical parameters

V = 24.00 V I = 0.7741 A P = 18.58 W PF = 1.000 F=0.00 Hz

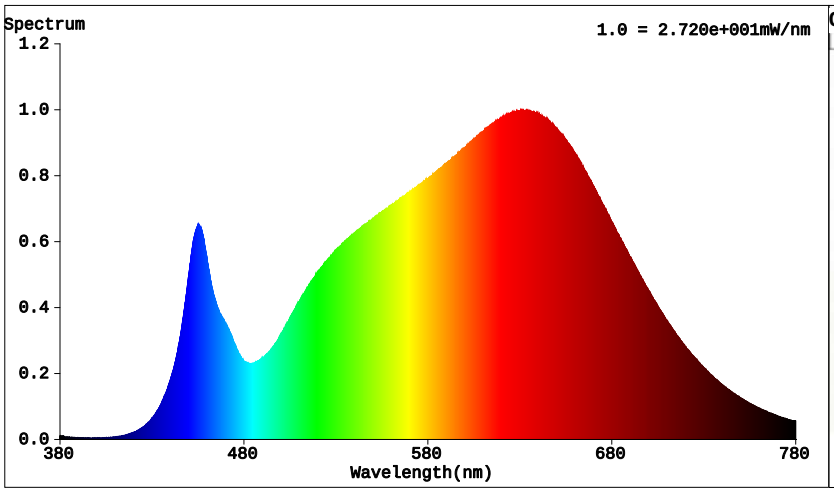
Spectrum Test Report

Sample	:	Date	: 2019-04-12 11:42:27
Specification	: FH18W-P0-G1 21X30 24V300S W10L05	Sam. Status	:
Sample No.	: 4003	Instrument	: HaasSuite(EVERFINE)
Manufacturer	:	Test by	:
Assessor	: damin		
Remark	:		

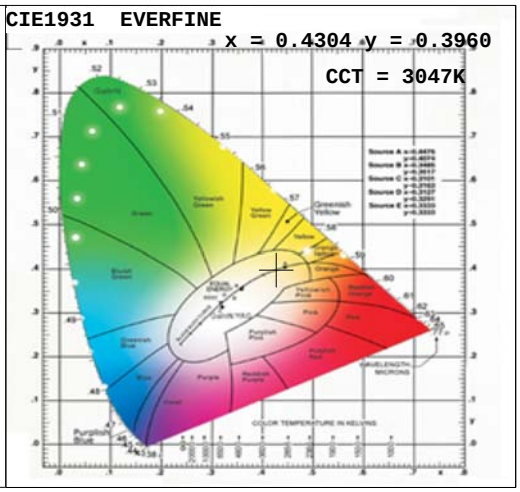
Test Condition

Temprature	: 25.3Deg	RH	: 65.0%
WL Range	: 380nm-780nm	IP	: 52914 (81%)
Test Mode	: Fast Test	T	: 146 ms
		Sensitivity	: High

Spectrum



Spectral Distribution



CIE1931 Chromaticity Diagram

Colorimetric Parameters

Chromaticity Coordinate: x = 0.4304 y = 0.3960 / u' = 0.2498 v' = 0.5172 (duv=-2.33e-03)

CCT= 3047K Prcp WL: Ld=583.5nm Purity=48.0%

Peak WL: Lp=634nm FWHM: =176.3nm Ratio:R=24.1% G=73.0% B=2.9%

Render Index: Ra = 93.9 CRI = 91.2 AvgR = 91.4 TM30:Rf=91 Rg=102

R1 =95 R2 =97 R3 =95 R4 =93 R5 =93 R6 =94 R7 =95

R8 =89 R9 =76 R10=90 R11=92 R12=76 R13=95 R14=97 R15=94

LEVEL:OUT WHITE:ANSI_3000K

Photometric & Radiometric Parameters

Flux = 1370.8 lm Eff. : 74.51 lm/W Fe = 5.0981 W

Flux of emitted photons(umol/s):25.478 Fluo. and blue light ratio:8.921 Fluorescent eff.:249.2

Electrical parameters

V = 24.00 V I = 0.7666 A P = 18.40 W PF = 1.000 F=0.00 Hz

EVERFINE CORPORATION

http://www.everfine.cn

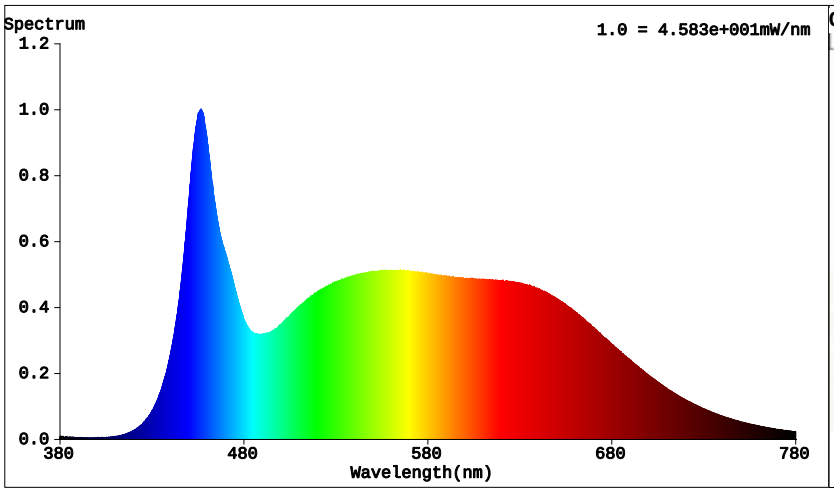
Spectrum Test Report

Sample	:	Date	: 2019-04-12 11:43:50
Specification	: FH18W-P0-G1 21X50 24V300S W10L05	Sam. Status	:
Sample No.	: 4004	Instrument	: HaasSuite(EVERFINE)
Manufacturer	:	Test by	:
Assessor	: damin		
Remark	:		

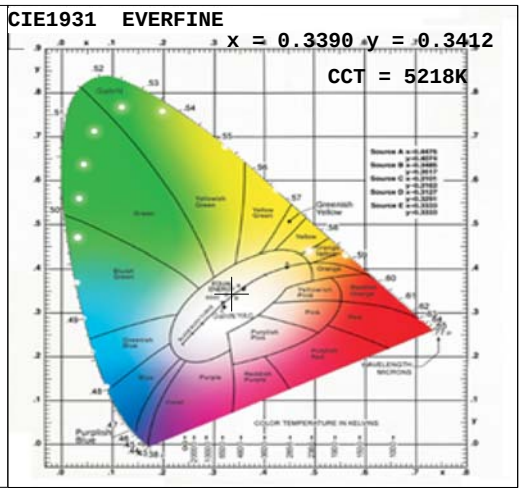
Test Condition

Temprature	: 25.3Deg	RH	: 65.0%
WL Range	: 380nm-780nm	IP	: 53508 (82%)
Test Mode	: Fast Test	T	: 146 ms
		Sensitivity	: High

Spectrum



Spectral Distribution



CIE1931 Chromaticity Diagram

Colorimetric Parameters

Chromaticity Coordinate: x = 0.3390 y = 0.3412 / u' = 0.2113 v' = 0.4786 (duv=-2.78e-03)

CCT= 5218K Prcp WL: Ld=574.0nm Purity=4.1%

Peak WL: Lp=457nm FWHM: =27.0nm Ratio:R=17.3% G=76.8% B=5.9%

Render Index: Ra = 94.4 CRI = 92.4 AvgR = 92.6 TM30:Rf=89 Rg=100

R1 =96	R2 =98	R3 =96	R4 =92	R5 =93	R6 =93	R7 =94
R8 =92	R9 =86	R10=94	R11=92	R12=70	R13=98	R14=98 R15=96

LEVEL:OUT WHITE:ANSI_5000K

Photometric & Radiometric Parameters

Flux = 1599.8 lm Eff. : 82.28 lm/W Fe = 5.8623 W

Flux of emitted photons(umol/s):27.654 Fluo. and blue light ratio:3.202 Fluorescent eff.:229.8

Electrical parameters

V = 24.00 V I = 0.8102 A P = 19.44 W PF = 1.000 F=0.00 Hz

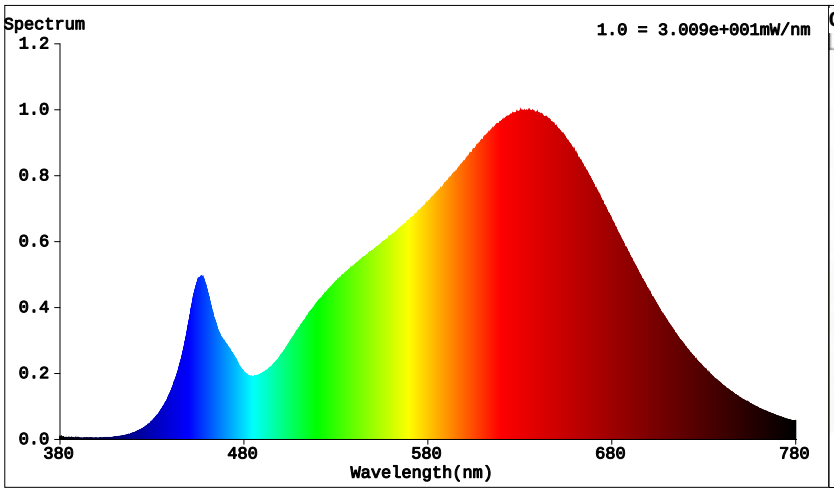
Spectrum Test Report

Sample	:	Date	: 2019-04-12 11:45:48
Specification	: FH18W-P0-G1 21X27 24V300S W10L05	Sam. Status	:
Sample No.	: 4006	Instrument	: HaasSuite(EVERFINE)
Manufacturer	:	Test by	:
Assessor	: damin		
Remark	:		

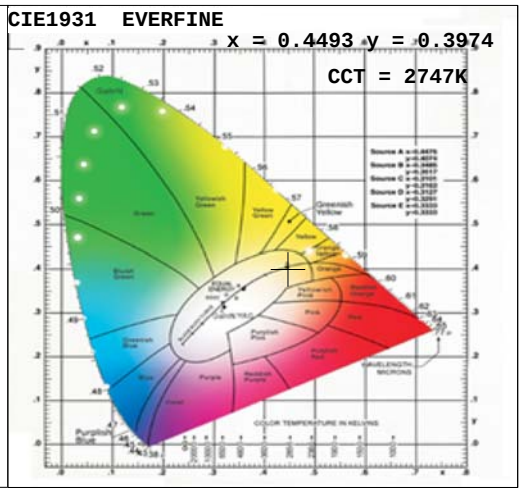
Test Condition

Temprature	: 25.3Deg	RH	: 65.0%
WL Range	: 380nm-780nm	IP	: 45971 (70%)
Test Mode	: Fast Test	T	: 116 ms
		Sensitivity	: High

Spectrum



Spectral Distribution



CIE1931 Chromaticity Diagram

Colorimetric Parameters

Chromaticity Coordinate: x = 0.4493 y = 0.3974 / u' = 0.2616 v' = 0.5206 (duv=-4.07e-03)

CCT= 2747K Prcp WL: Ld=585.5nm Purity=54.1%

Peak WL: Lp=635nm FWHM: =160.8nm Ratio:R=26.4% G=71.0% B=2.6%

Render Index: Ra = 94.7 CRI = 92.7 AvgR = 92.8 TM30:Rf=90 Rg=103

R1 =96 R2 =98 R3 =97 R4 =94 R5 =95 R6 =96 R7 =94

R8 =89 R9 =77 R10=93 R11=93 R12=82 R13=97 R14=97 R15=95

LEVEL:OUT WHITE:ANSI_2700K

Photometric & Radiometric Parameters

Flux = 1362.9 lm Eff. : 70.33 lm/W Fe = 5.2432 W

Flux of emitted photons(umol/s):26.472 Fluo. and blue light ratio:10.30 Fluorescent eff.:246.7

Electrical parameters

V = 24.00 V I = 0.8075 A P = 19.38 W PF = 1.000 F=0.00 Hz

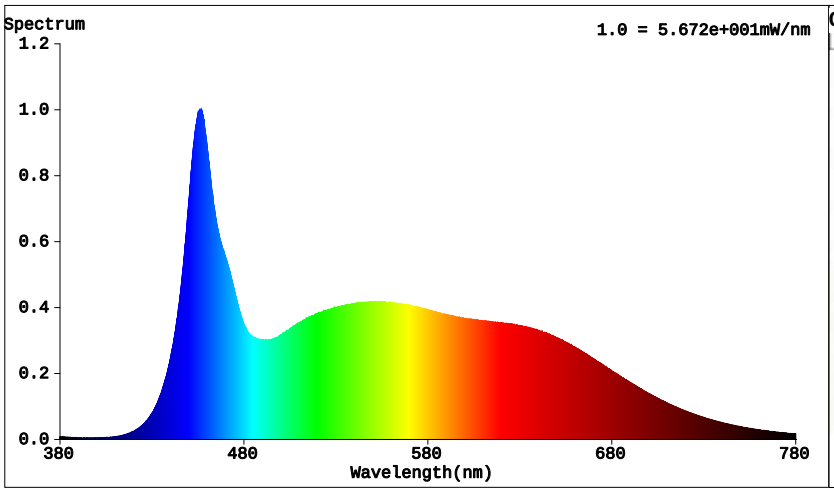
Spectrum Test Report

Sample	:	Date	: 2019-04-12 11:47:22
Specification	: FH18W-P0-G1 21X60 24V300S W10L05	Sam. Status	:
Sample No.	: 4007	Instrument	: HaasSuite(EVERFINE)
Manufacturer	:	Test by	:
Assessor	: damin		
Remark	:		

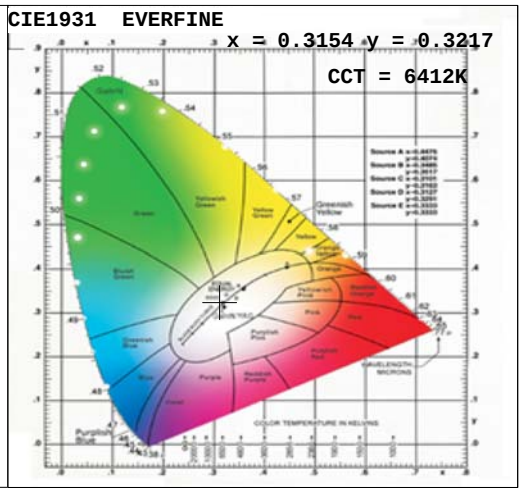
Test Condition

Temprature	: 25.3Deg	RH	: 65.0%
WL Range	: 380nm-780nm	IP	: 52460 (80%)
Test Mode	: Fast Test	T	: 116 ms
		Sensitivity	: High

Spectrum



Spectral Distribution



CIE1931 Chromaticity Diagram

Colorimetric Parameters

Chromaticity Coordinate: x = 0.3154 y = 0.3217 / u' = 0.2025 v' = 0.4647 (duv=-1.99e-03)

CCT= 6412K Prcp WL: Ld=482.8nm Purity=7.1%

Peak WL: Lp=456nm FWHM: =26.3nm Ratio:R=15.7% G=77.2% B=7.0%

Render Index: Ra = 93.9 CRI = 92.4 AvgR = 92.6 TM30:Rf=88 Rg=99

R1 =96	R2 =98	R3 =97	R4 =91	R5 =92	R6 =92	R7 =93
R8 =93	R9 =92	R10=97	R11=92	R12=66	R13=99	R14=99 R15=95

LEVEL:OUT WHITE:ANSI_6500K

Photometric & Radiometric Parameters

Flux = 1602.0 lm Eff. : 82.67 lm/W Fe = 5.9922 W

Flux of emitted photons(umol/s):27.798 Fluo. and blue light ratio:2.382 Fluorescent eff.:217.9

Electrical parameters

V = 24.00 V I = 0.8075 A P = 19.38 W PF = 1.000 F=0.00 Hz

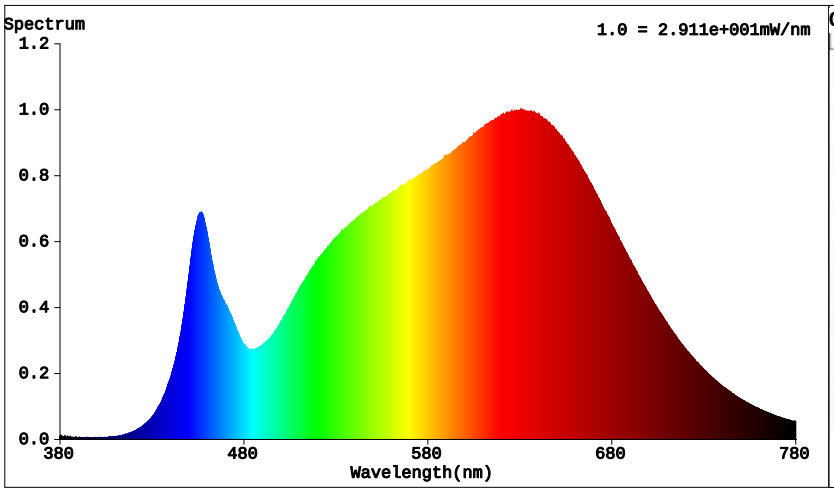
Spectrum Test Report

Sample	:	Date	: 2019-04-12 11:50:55
Specification	: FH18W-P0-G1 21X32 24V300S W10L05	Sam. Status	:
Sample No.	: 4008	Instrument	: HaasSuite(EVERFINE)
Manufacturer	:	Test by	:
Assessor	: damin		
Remark	:		

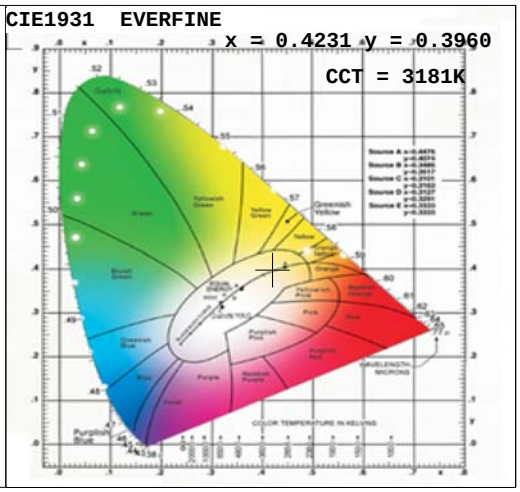
Test Condition

Temprature	: 25.3Deg	RH	: 65.0%
WL Range	: 380nm-780nm	IP	: 45378 (69%)
Test Mode	: Fast Test	T	: 116 ms
		Sensitivity	: High

Spectrum



Spectral Distribution



CIE1931 Chromaticity Diagram

Colorimetric Parameters

Chromaticity Coordinate: x = 0.4231 y = 0.3960 / u' = 0.2451 v' = 0.5161 (duv=-1.20e-03)

CCT= 3181K Prcp WL: Ld=582.5nm Purity=45.8%

Peak WL: Lp=631nm FWHM: =179.4nm Ratio:R=23.3% G=73.6% B=3.2%

Render Index: Ra = 94.0 CRI = 91.2 AvgR = 91.3 TM30:Rf=91 Rg=100

R1 =95	R2 =97	R3 =96	R4 =93	R5 =93	R6 =94	R7 =95	
R8 =89	R9 =76	R10=90	R11=92	R12=75	R13=95	R14=97	R15=93

LEVEL:OUT WHITE:ANSI_3000K

Photometric & Radiometric Parameters

Flux = 1527.2 lm Eff. : 77.24 lm/W Fe = 5.5995 W

Flux of emitted photons(umol/s):27.846 Fluo. and blue light ratio:8.037 Fluorescent eff.:251.9

Electrical parameters

V = 24.00 V I = 0.8239 A P = 19.77 W PF = 1.000 F=0.00 Hz

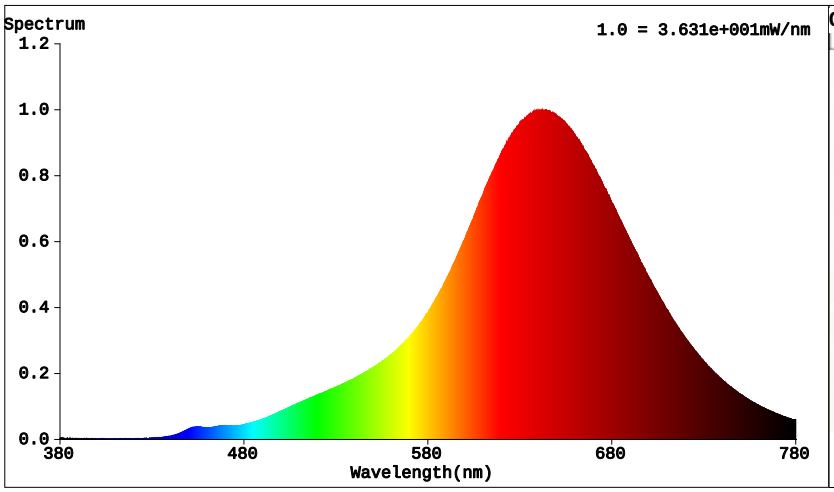
Spectrum Test Report

Sample	:	Date	: 2019-04-12 11:51:59
Specification	: FH18W-P0-G1 21X17 24V300S W10L05	Sam. Status	:
Sample No.	: 4008	Instrument	: HaasSuite(EVERFINE)
Manufacturer	:	Test by	:
Assessor	: damin		
Remark	:		

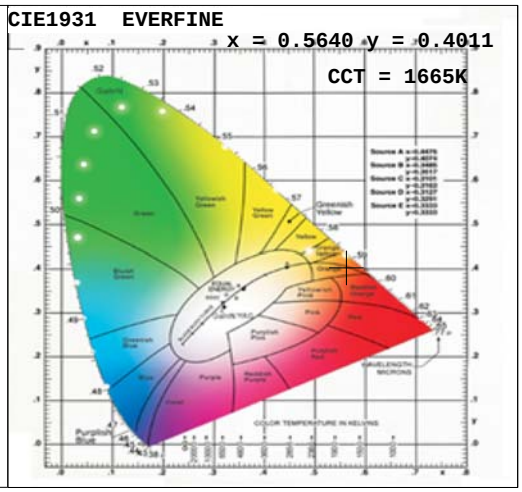
Test Condition

Temprature	: 25.3Deg	RH	: 65.0%
WL Range	: 380nm-780nm	IP	: 54032 (82%)
Test Mode	: Fast Test	T	: 116 ms
		Sensitivity	: High

Spectrum



Spectral Distribution



CIE1931 Chromaticity Diagram

Colorimetric Parameters

Chromaticity Coordinate: x = 0.5640 y = 0.4011 / u' = 0.3374 v' = 0.5400 (duv=5.26e-04)

CCT= 1665K Prcp WL: Ld=592.7nm Purity=89.7%

Peak WL: Lp=642nm FWHM: =108.0nm Ratio:R=41.9% G=57.1% B=1.0%

Render Index: Ra = 93.6 CRI = 91.8 AvgR = 91.7 TM30:Rf=90 Rg=98

R1 =97	R2 =99	R3 =97	R4 =98	R5 =99	R6 =91	R7 =88	
R8 =81	R9 =66	R10=98	R11=94	R12=81	R13=99	R14=99	R15=90

LEVEL:OUT WHITE:OUT

Photometric & Radiometric Parameters

Flux = 919.55 lm Eff. : 48.05 lm/W Fe = 4.6274 W

Flux of emitted photons(umol/s):24.638 Fluo. and blue light ratio:84.45 Fluorescent eff.:239.0

Electrical parameters

V = 24.00 V I = 0.7975 A P = 19.14 W PF = 1.000 F=0.00 Hz

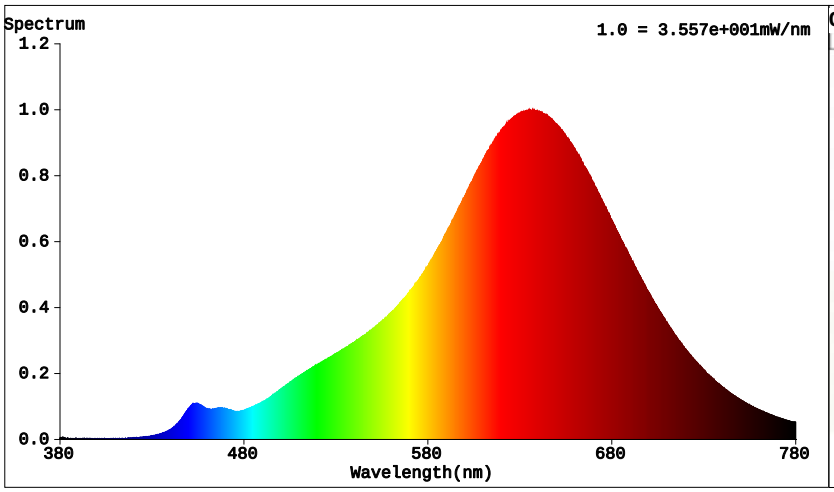
Spectrum Test Report

Sample	:	Date	: 2019-04-12 11:53:10
Specification	: FH18W-P0-G1 21X20 24V300S W10L05	Sam. Status	:
Sample No.	: 4009	Instrument	: HaasSuite(EVERFINE)
Manufacturer	:	Test by	:
Assessor	: damin		
Remark	:		

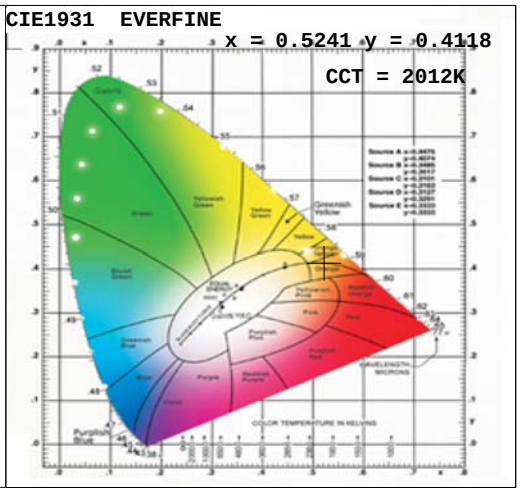
Test Condition

Temprature	: 25.3Deg	RH	: 65.0%
WL Range	: 380nm-780nm	IP	: 53608 (82%)
Test Mode	: Fast Test	T	: 116 ms
		Sensitivity	: High

Spectrum



Spectral Distribution



CIE1931 Chromaticity Diagram

Colorimetric Parameters

Chromaticity Coordinate: x = 0.5241 y = 0.4118 / u' = 0.3041 v' = 0.5376 (duv=-5.51e-04)

CCT= 2012K Prcp WL: Ld=589.0nm Purity=80.9%

Peak WL: Lp=635nm FWHM: =117.7nm Ratio:R=34.7% G=63.8% B=1.5%

Render Index: Ra = 94.0 CRI = 93.1 AvgR = 92.9 TM30:Rf=92 Rg=99

R1 =96	R2 =100	R3 =97	R4 =96	R5 =97	R6 =95	R7 =90
R8 =82	R9 =65	R10=99	R11=99	R12=91	R13=97	R14=99 R15=90

LEVEL:OUT WHITE:OUT

Photometric & Radiometric Parameters

Flux = 1171.5 lm Eff. : 60.99 lm/W Fe = 5.0007 W

Flux of emitted photons(umol/s):26.078 Fluo. and blue light ratio:40.05 Fluorescent eff.:254.0

Electrical parameters

V = 24.00 V I = 0.8004 A P = 19.21 W PF = 1.000 F=0.00 Hz

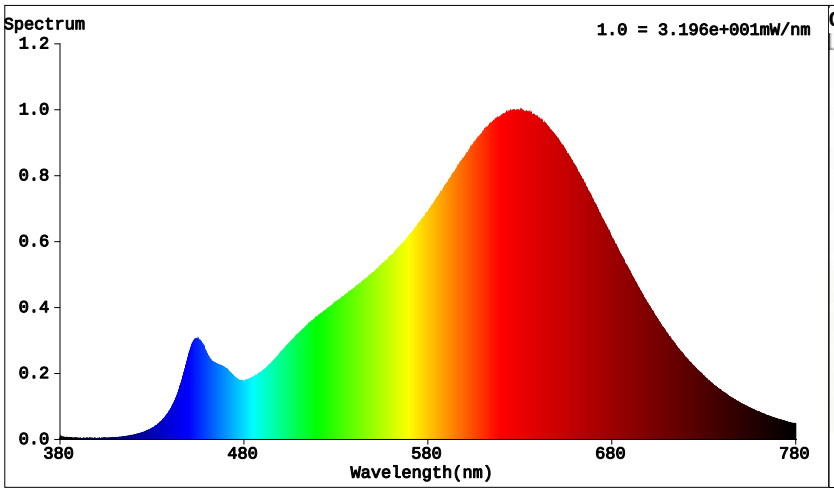
Spectrum Test Report

Sample	:	Date	: 2019-04-12 11:55:39
Specification	: FH18W-P0-G1 21X25 24V300S W10L05	Sam. Status	:
Sample No.	: 4011	Instrument	: HaasSuite(EVERFINE)
Manufacturer	:	Test by	:
Assessor	: damin		
Remark	:		

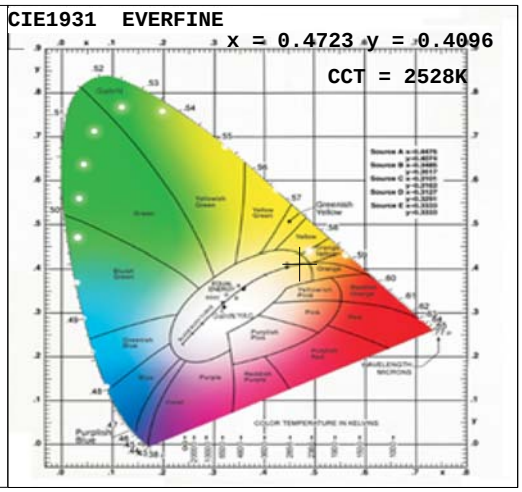
Test Condition

Temprature	: 25.3Deg	RH	: 65.0%
WL Range	: 380nm-780nm	IP	: 49658 (76%)
Test Mode	: Fast Test	T	: 116 ms
		Sensitivity	: High

Spectrum



Spectral Distribution



CIE1931 Chromaticity Diagram

Colorimetric Parameters

Chromaticity Coordinate: x = 0.4723 y = 0.4096 / u' = 0.2710 v' = 0.5288 (duv=-1.20e-03)

CCT= 2528K Prcp WL: Ld=585.5nm Purity=64.7%

Peak WL: Lp=631nm FWHM: =141.7nm Ratio:R=28.1% G=69.5% B=2.4%

Render Index: Ra = 94.0 CRI = 92.3 AvgR = 92.2 TM30:Rf=92 Rg=100

R1 =95	R2 =99	R3 =98	R4 =94	R5 =95	R6 =97	R7 =91
R8 =83	R9 =66	R10=96	R11=95	R12=88	R13=96	R14=99 R15=91

LEVEL:OUT WHITE:OUT

Photometric & Radiometric Parameters

Flux = 1365.3 lm Eff. : 71.61 lm/W Fe = 5.1606 W

Flux of emitted photons(umol/s):26.197 Fluo. and blue light ratio:15.67 Fluorescent eff.:254.5

Electrical parameters

V = 24.00 V I = 0.7945 A P = 19.07 W PF = 1.000 F=0.00 Hz

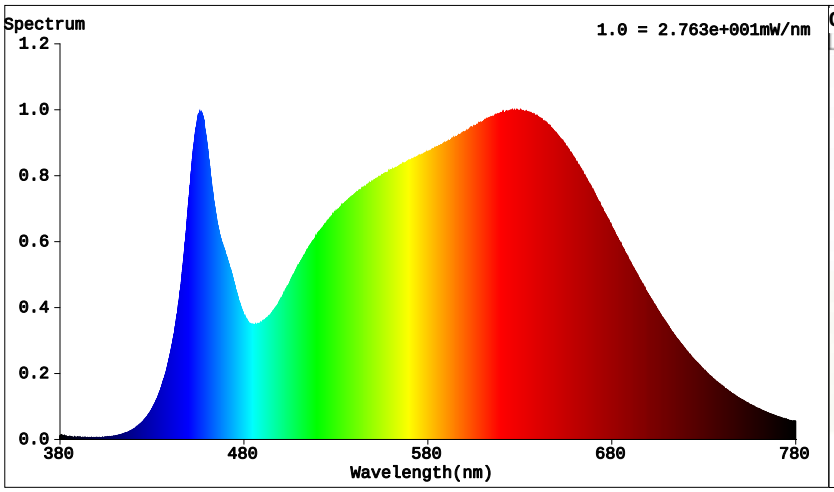
Spectrum Test Report

Sample	:	Date	: 2019-04-12 11:57:11
Specification	: FH18W-P0-G1 21X35 24V300S W10L05	Sam. Status	:
Sample No.	: 4012	Instrument	: HaasSuite(EVERFINE)
Manufacturer	:	Test by	:
Assessor	: damin		
Remark	:		

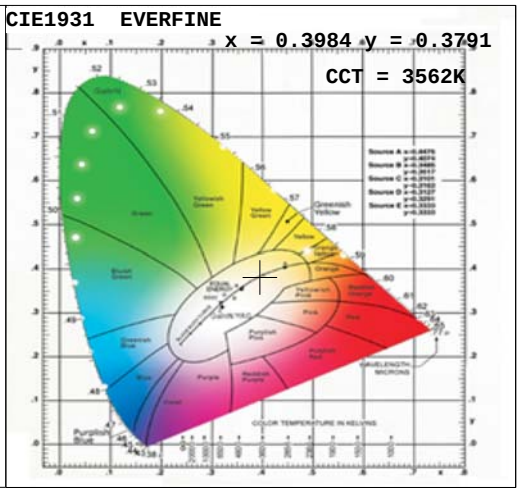
Test Condition

Temprature	: 25.3Deg	RH	: 65.0%
WL Range	: 380nm-780nm	IP	: 52875 (81%)
Test Mode	: Fast Test	T	: 140 ms
		Sensitivity	: High

Spectrum



Spectral Distribution



CIE1931 Chromaticity Diagram

Colorimetric Parameters

Chromaticity Coordinate: x = 0.3984 y = 0.3791 / u' = 0.2360 v' = 0.5053 (duv=-3.62e-03)

CCT= 3562K Prcp WL: Ld=582.4nm Purity=33.3%

Peak WL: Lp=628nm FWHM: =186.7nm Ratio:R=21.7% G=74.5% B=3.8%

Render Index: Ra = 94.6 CRI = 92.1 AvgR = 92.3 TM30:Rf=90 Rg=101

R1 =96	R2 =98	R3 =96	R4 =93	R5 =94	R6 =94	R7 =95
R8 =91	R9 =81	R10=92	R11=92	R12=73	R13=97	R14=97 R15=96

LEVEL:OUT WHITE:ANSI_3500K

Photometric & Radiometric Parameters

Flux = 1572.4 lm Eff. : 78.46 lm/W Fe = 5.7674 W

Flux of emitted photons(umol/s):28.295 Fluo. and blue light ratio:5.975 Fluorescent eff.:246.6

Electrical parameters

V = 24.00 V I = 0.8351 A P = 20.04 W PF = 1.000 F=0.00 Hz

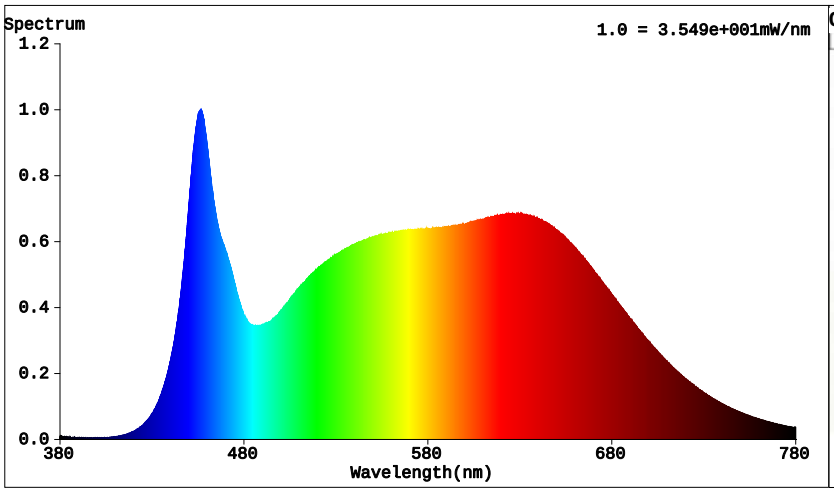
Spectrum Test Report

Sample	:	Date	: 2019-04-12 11:58:00
Specification	: FH18W-P0-G1 21X42 24V300S W10L05	Sam. Status	:
Sample No.	: 4013	Instrument	: HaasSuite(EVERFINE)
Manufacturer	:	Test by	:
Assessor	: damin		
Remark	:		

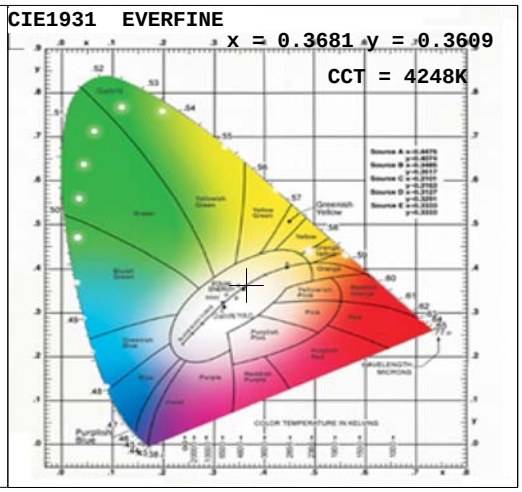
Test Condition

Temprature	: 25.3Deg	RH	: 65.0%
WL Range	: 380nm-780nm	IP	: 47447 (72%)
Test Mode	: Fast Test	T	: 140 ms
		Sensitivity	: High

Spectrum



Spectral Distribution



CIE1931 Chromaticity Diagram

Colorimetric Parameters

Chromaticity Coordinate: x = 0.3681 y = 0.3609 / u' = 0.2232 v' = 0.4926 (duv=-3.79e-03)

CCT= 4248K Prcp WL: Ld=580.9nm Purity=18.8%

Peak WL: Lp=457nm FWHM: =27.2nm Ratio:R=19.6% G=75.4% B=4.9%

Render Index: Ra = 95.4 CRI = 93.6 AvgR = 93.8 TM30:Rf=90 Rg=100

R1 =97 R2 =99 R3 =97 R4 =93 R5 =94 R6 =94 R7 =95

R8 =94 R9 =91 R10=96 R11=93 R12=69 R13=99 R14=98 R15=96

LEVEL:OUT WHITE:ANSI_4000K

Photometric & Radiometric Parameters

Flux = 1540.0 lm Eff. : 79.20 lm/W Fe = 5.6815 W

Flux of emitted photons(umol/s):27.391 Fluo. and blue light ratio:4.349 Fluorescent eff.:237.7

Electrical parameters

V = 24.00 V I = 0.8102 A P = 19.44 W PF = 1.000 F=0.00 Hz