杭州创惠仪器有限公司
www.inventfine.cn
Tel: 86-15813129368
Fax: 86-571-88262100

Lightsource Test Report

Product Infomation

Product Type: 380V　　Product Number: 1004

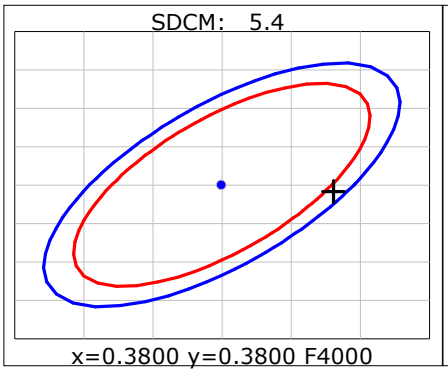
CIE Colorimetric Parameters

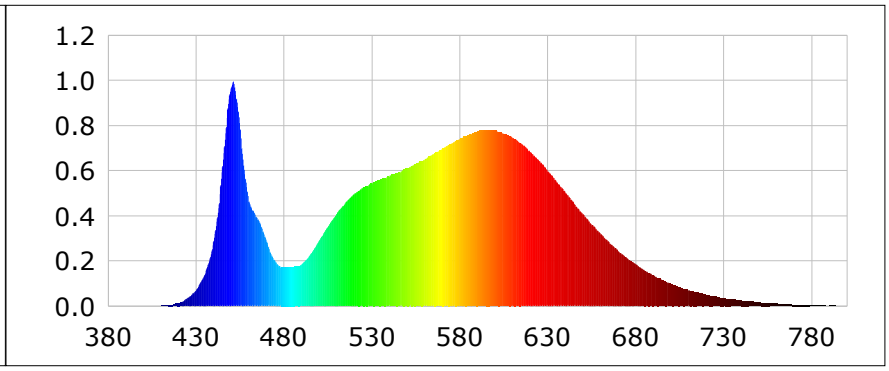
Chromaticity coordinates: x=0.3881 y=0.3792　u(u')=0.2292 v=0.3359 v'=0.5038
CCT: Tc=3816K (duv=-0.00102)　　Color Ratio: R=0.190 G=0.780 B=0.031
Peak Wavelength: 451.0nm　　Half Bandwidth: 15.8nm
Dominant Wavelength: 580.3nm　　Color Purity: 0.303
CRI: Ra= 81.9　　TM30: Rf= 82, Rg= 96
GAI: GAI_BB_8=94.9, GAI_BB_15=102.4, GAI_EES=71.9

R1 =81	R2 =88	R3 =93	R4 =81	R5 =80	R6 =83	R7 =85	R8 =64
R9 =8	R10=71	R11=79	R12=57	R13=82	R14=96	R15=75	

Color Quality Scale: Qa= 81.1, Qf= 80.9, Qp= 82.2, Qg= 93.9

Q1 =82	Q2 =98	Q3 =75	Q4 =73	Q5 =79	Q6 =82	Q7 =83	Q8 =88
Q9 =97	Q10=86	Q11=83	Q12=82	Q13=83	Q14=72	Q15=76	





Photometric Parameters

Luminous Flux: 5787.7 lm　　Efficiency: 130.71 lm/W　　Radiant Power: 17.402 W
EEI: 0.10　　Energy Efficiency Class: A++ (EU 874-2012)

Electric Parameters

Voltage: 219.80V　　Current: 0.3770A　　Power: 44.28W
Power Factor: 0.5330　　Frequency: 49.99Hz

Test Infomation
Scan Range: 380~800:1nm　　Photometric Method: sphere-spectroradiometer
Stabilization Time: 0 Min　ALC.: 1.0000　　Photometric Condition: Sphere diameter: 2.00m, 4π
Max of Signal: 46455 (2557)　　CCD Integration Time: 88.28 ms

Condition: Tx:24.8'C, Ti:24.1'C, R.H.:60%　　Test Device: Inventfine CMS-3000S
Test Lab:　　Test Time: 2026-11-25 15:10:19
Operator:　　Inspector:

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WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)
380	0.0003	0.0418	525	0.5288	69.3184	670	0.2484	32.5675
385	0.0001	0.0139	530	0.5469	71.6899	675	0.2165	28.3834
390	0.0011	0.1396	535	0.5631	73.8248	680	0.1876	24.5943
395	0.0019	0.2522	540	0.5792	75.9268	685	0.1608	21.0867
400	0.0011	0.1434	545	0.5952	78.0290	690	0.1395	18.2824
405	0.0020	0.2597	550	0.6146	80.5757	695	0.1188	15.5798
410	0.0029	0.3777	555	0.6340	83.1103	700	0.1014	13.2912
415	0.0067	0.8831	560	0.6539	85.7181	705	0.0868	11.3736
420	0.0162	2.1241	565	0.6789	88.9987	710	0.0742	9.7250
425	0.0369	4.8431	570	0.7008	91.8754	715	0.0633	8.2942
430	0.0753	9.8742	575	0.7218	94.6278	720	0.0532	6.9734
435	0.1467	19.2305	580	0.7440	97.5304	725	0.0448	5.8744
440	0.2895	37.9550	585	0.7611	99.7745	730	0.0369	4.8406
445	0.6230	81.6756	590	0.7746	101.5431	735	0.0312	4.0838
450	0.9748	127.7893	595	0.7806	102.3354	740	0.0262	3.4304
455	0.7882	103.3242	600	0.7779	101.9746	745	0.0220	2.8822
460	0.4691	61.4932	605	0.7659	100.4129	750	0.0172	2.2590
465	0.3907	51.2196	610	0.7495	98.2574	755	0.0155	2.0300
470	0.2908	38.1261	615	0.7236	94.8598	760	0.0127	1.6615
475	0.1986	26.0411	620	0.6878	90.1697	765	0.0108	1.4097
480	0.1747	22.9077	625	0.6489	85.0637	770	0.0080	1.0541
485	0.1752	22.9655	630	0.6033	79.0952	775	0.0067	0.8739
490	0.1887	24.7355	635	0.5544	72.6840	780	0.0050	0.6613
495	0.2315	30.3522	640	0.5071	66.4793	785	0.0053	0.6902
500	0.2932	38.4357	645	0.4578	60.0112	790	0.0043	0.5581
505	0.3574	46.8489	650	0.4115	53.9493	795	0.0019	0.2466
510	0.4148	54.3737	655	0.3659	47.9651	800	0.0025	0.3240
515	0.4612	60.4635	660	0.3242	42.4990			
520	0.4995	65.4859	665	0.2834	37.1570			

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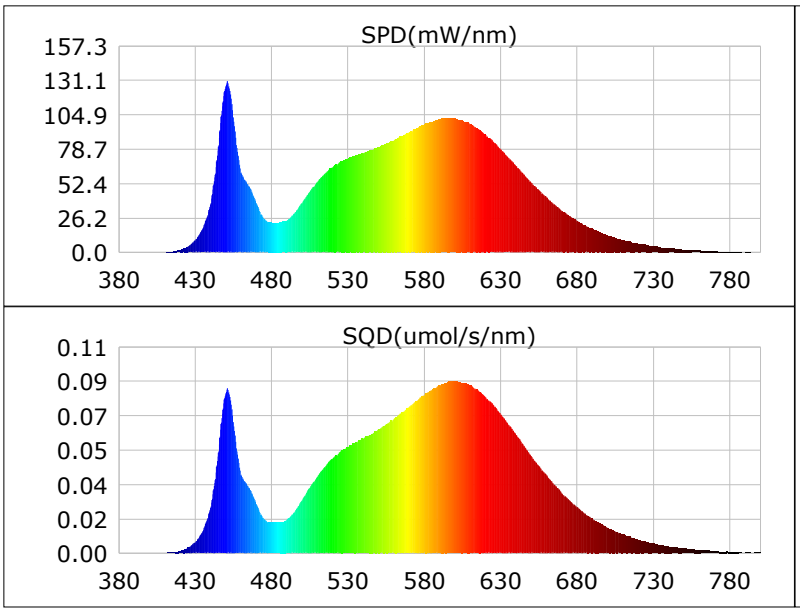
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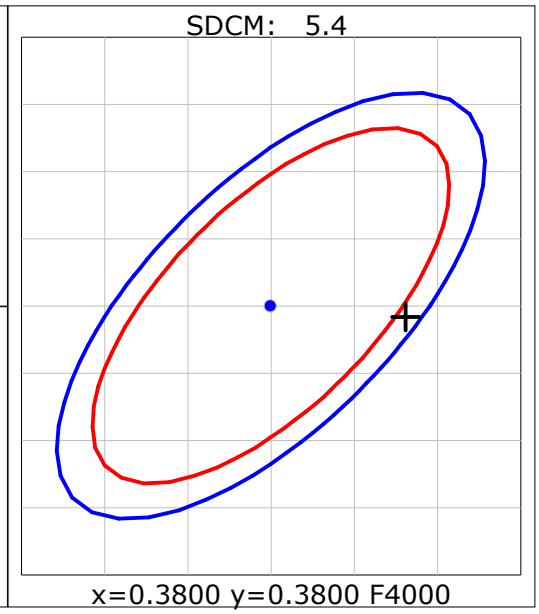
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Plant optical param data

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CRI: Ra= 81.9





Plant Optical Param

Φv(lm): 5787.70 Qv(lm.s): 5787.70
Φe,λ(W/nm): 17.40 Qe(J): 17.40
Φe(W): 17.04 Φfr(W): 0.39
ηe: 0.38 ηfr: 0.01
PPE(umol/s/w): 1.81 Kfr: 0.05
Erb_Ratio: 1.62 PPF(umol/s): 80.16
PFuv(360-400)(umol/s): 0.01 PPF(400-500)(umol/s): 13.26
PPF(500-600)(umol/s): 37.20 PPF(600-700)(umol/s): 29.70
PFfr(700-800)(umol/s): 2.26 PPF.t(umol): 80.16
Φch-A.t(J): 1.36 Φch-A(W): 1.36
Φch-B.t(J): 0.78 Φch-B(W): 0.78
Φb.t(J): 3.45 Φb(W): 3.45
Φy.t(J): 8.04 Φy(W): 8.04
Φr.t(J): 5.69 Φr(W): 5.69

Electric Parameters

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