NINGBO FREELUX LIGHTING APPLIANCE CO.,LTD.
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Lightsource Test Report

Product Infomation

Product Number: 50

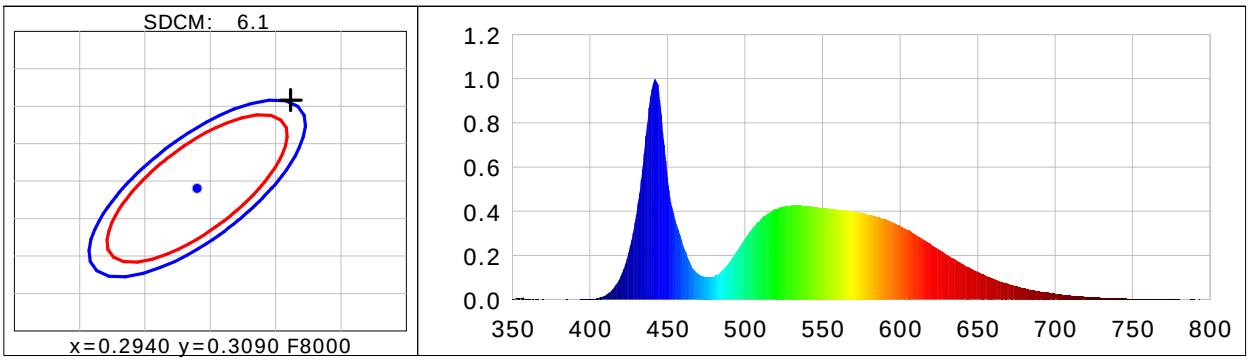
CIE Colorimetric Parameters

Chromaticity coordinates: x=0.3012 y=0.3208 u(u')=0.1928 v=0.3081 v'=0.4622
CCT: Tc=6870K (duv=0.00500) Color Ratio: R=0.120 G=0.839 B=0.041
Peak Wavelength: 442.1nm Half Bandwidth: 18.7nm
Dominant Wavelength: 486.6nm Color Purity: 0.118
Central Wave: 441.6nm Gravity Wave: 441.7nm
CRI: Ra= 74.0 TM30: Rf= 75, Rg= 98
GAI: GAI_BB_8=89.8, GAI_BB_15=92.4, GAI_EES=88.7

R1 =73	R2 =75	R3 =79	R4 =75	R5 =76	R6 =71	R7 =79	R8 =63
R9 =-23	R10=44	R11=78	R12=56	R13=72	R14=88	R15=66	

Color Quality Scale: Qa= 76.7, Qf= 75.6, Qp= 80.1, Qg= 91.9

Q1 =81	Q2 =92	Q3 =72	Q4 =72	Q5 =79	Q6 =79	Q7 =81	Q8 =90
Q9 =91	Q10=76	Q11=74	Q12=75	Q13=76	Q14=62	Q15=70	



Photometric Parameters

Luminous Flux: 30845 lm Efficiency: 107.75 lm/W Radiant Power: 143.043 W
Total mains efficacy: 107.75 lm/W Energy Efficiency Class: C (EU 2019/2015)
Auxiliary lamp correction factor: 1.00

Electric Parameters

Voltage: 218.86V Current: 1.9504A Power: 286.26W
Power Factor: 0.6706 Frequency: 49.99Hz DF: 0.9774

Test Infomation
Scan Range: 350~800:1nm
Stabilization Time: 0 Min ALC.: 1.0000
Max of Signal: 44068 (3651)
Photometric Method: sphere-spectroradiometer
Photometric Condition: Sphere diameter: 2.00m, 4∏
CCD Integration Time: 15.44 ms

Condition: Tx:32.4'C, Ti:29.4'C, R.H.:60%
Test Lab:
Operator:
Test Device: CMS-3500S
Test Time: 2025-07-25 09:32:49
Inspector: