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

Product Infomation

Product Number: 19

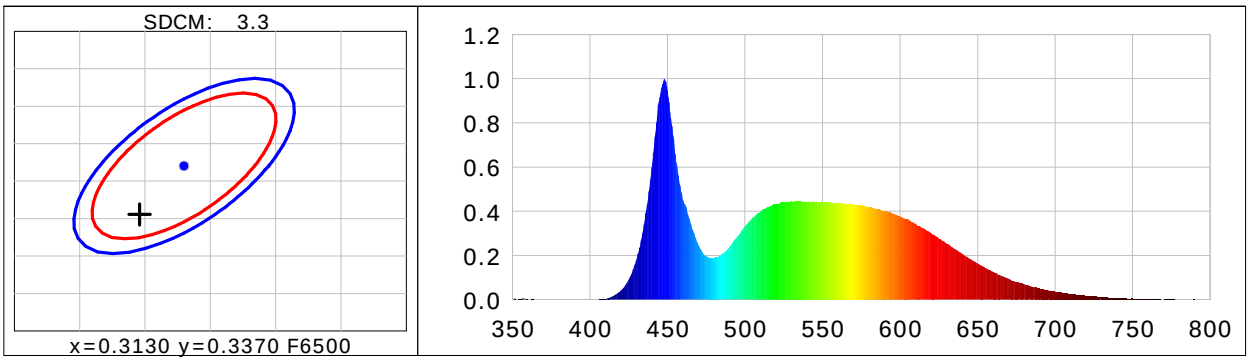
CIE Colorimetric Parameters

Chromaticity coordinates: x=0.3096 y=0.3305 u(u')=0.1951 v=0.3125 v'=0.4687
CCT: Tc=6662K (duv=0.00555) Color Ratio: R=0.130 G=0.818 B=0.052
Peak Wavelength: 448.1nm Half Bandwidth: 20.3nm
Dominant Wavelength: 490.2nm Color Purity: 0.082
Central Wave: 448.3nm Gravity Wave: 448.2nm
CRI: Ra= 81.6 TM30: Rf= 82, Rg= 97
GAI: GAI_BB_8=90.6, GAI_BB_15=95.0, GAI_EES=89.0

R1 =80	R2 =84	R3 =88	R4 =83	R5 =81	R6 =80	R7 =87	R8 =70
R9 =2	R10=63	R11=83	R12=59	R13=81	R14=94	R15=75	

Color Quality Scale: Qa= 81.7, Qf= 81.3, Qp= 82.8, Qg= 92.4

Q1 =85	Q2 =97	Q3 =77	Q4 =74	Q5 =82	Q6 =84	Q7 =86	Q8 =91
Q9 =95	Q10=84	Q11=82	Q12=82	Q13=82	Q14=70	Q15=76	



Photometric Parameters

Luminous Flux: 20053 lm Efficiency: 107.99 lm/W Radiant Power: 85.544 W
Total mains efficacy: 107.99 lm/W Energy Efficiency Class: D (EU 2019/2015)
Auxiliary lamp correction factor: 1.00

Electric Parameters

Voltage: 219.40V Current: 0.8584A Power: 185.69W
Power Factor: 0.9860 Frequency: 49.99Hz DF: 0.9904

Test Infomation
Scan Range: 350~800:1nm
Stabilization Time: 0 Min ALC.: 1.0000
Max of Signal: 47579 (2062)
Photometric Method: sphere-spectroradiometer
Photometric Condition: Sphere diameter: 2.00m, 4∏
CCD Integration Time: 31.16 ms

Condition: Tx:16.4'C, Ti:15.8'C, R.H.:60%
Test Lab:
Operator:
Test Device: CMS-3500S
Test Time: 2025-12-24 10:05:28
Inspector: