

Spectral illumination test report

Sample Information:

Sample name: 225 ultra-thin with shell - multi-band ratio

SAMPLE MODEL

Sample No: 05

Manufacturer:

DATE: 2025/03/18

Tester: ZHOU

Temperature: 25°C

Humidity: 56%RH

Note: Center distance 30cm directly below

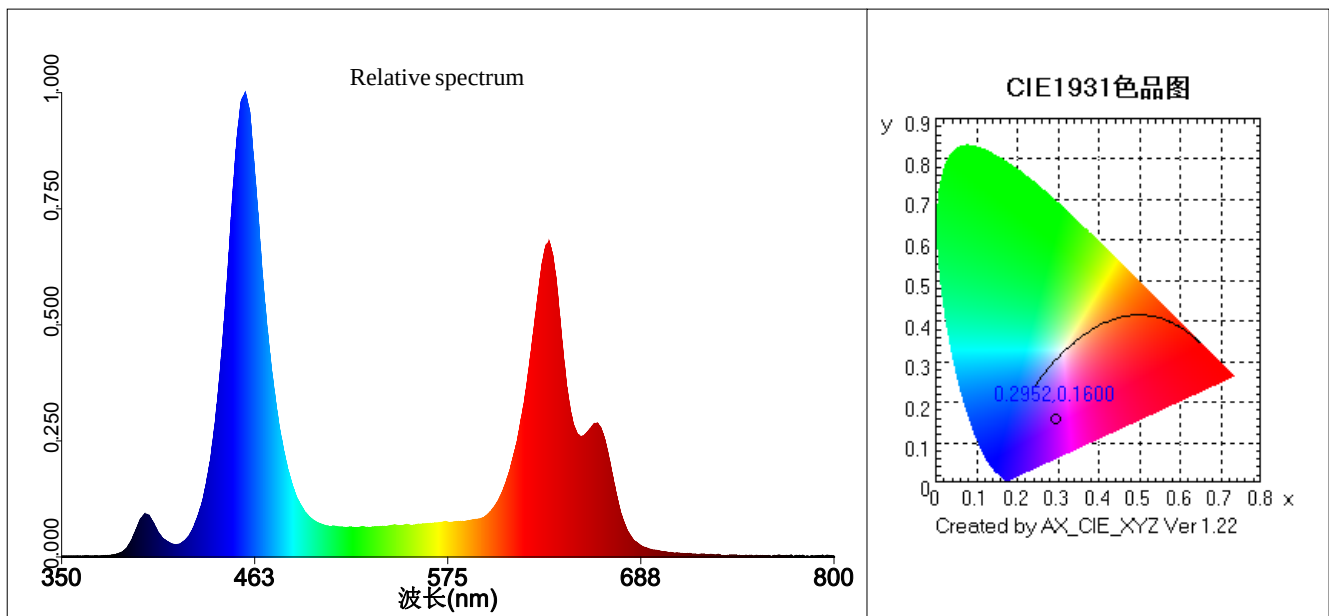
Instrument status:

Measuring instrument: PLA

Integration time: 1.3 ms

PEAK AD Ip: 41140.8

Average number of times: 1



Measurement parameters:

Illuminance E= 7.6239e+003 lx

IlluminanceE(fc)=708.543 fc

IrradianceEe=0.0000e+000 W/m2

CIE-x= 0.2952

CIE-y= 0.1600

CIE-u'=0.2728

CIE-v'=0.3326

CCT=100000 K

Lp=457.0 nm

HW=24.9 nm

Ld=-562.8000 nm

Pur=63.8 %

RedRatio(%)=42.4

GreenRatio(%)=42.5

BlueRatio(%)=15.0

DUV=-0.1022

S/P=3.72

Ra=-27.2842

R1=-76.7656

R2=-39.5640

R3=50

R4=-23.0729

R5=-52.1349

R6=-33.1041

R7=52

R8=-95.6234

R9=-488.1147

R10=-185.9899

R11=-40.1032

R12=-63.1151

R13=-79.0297

R14=74

R15=-133.2566

SDCM=74.2(F5000)

White light level:OUT

Eb=0.00000 (W/m2)

Ey=5.88206 (W/m2)

Er=21.33184 (W/m2)

Ep=44.75492 (W/m2)

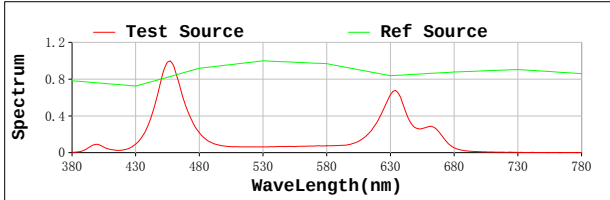
PPFD=239.30151 ($\mu\text{mol} \cdot \text{m}^{-2} \cdot \text{s}^{-1}$)

Erb_Ratio=0.82843

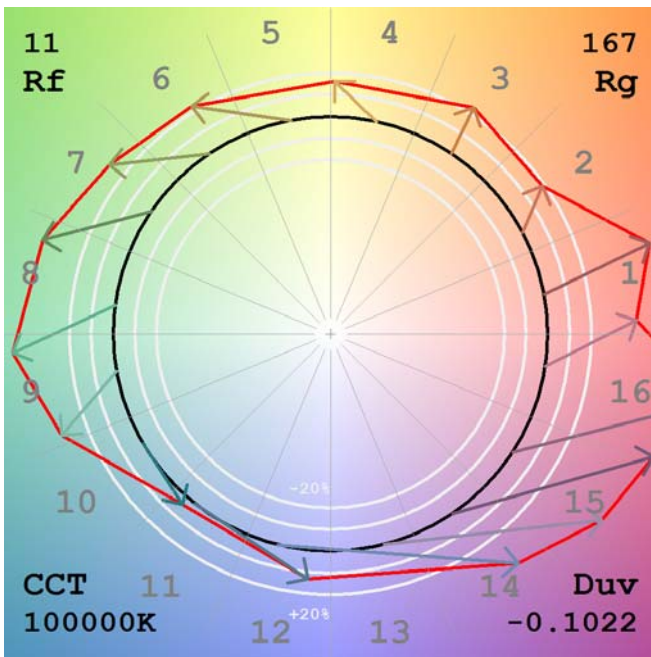
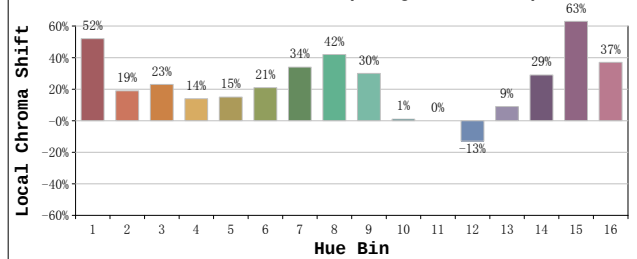
IES TM-30-18 Color Rendition Report

SPECTRAL POWER DISTRIBUTION COMPARISON

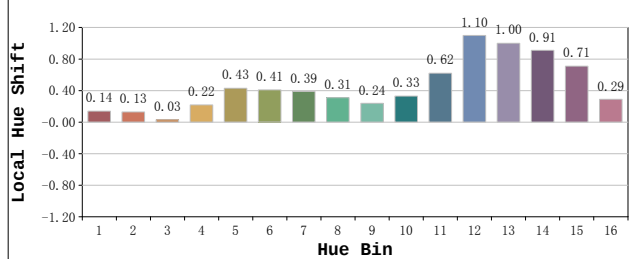
Rf: 11 CCT: 100000 K u': 0.2728
Rg: 167 Duv: -0.1022 v': 0.3326



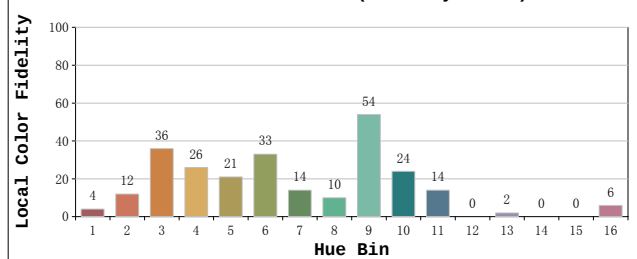
COLOR RENDITION BY HUE(Change of Chroma)



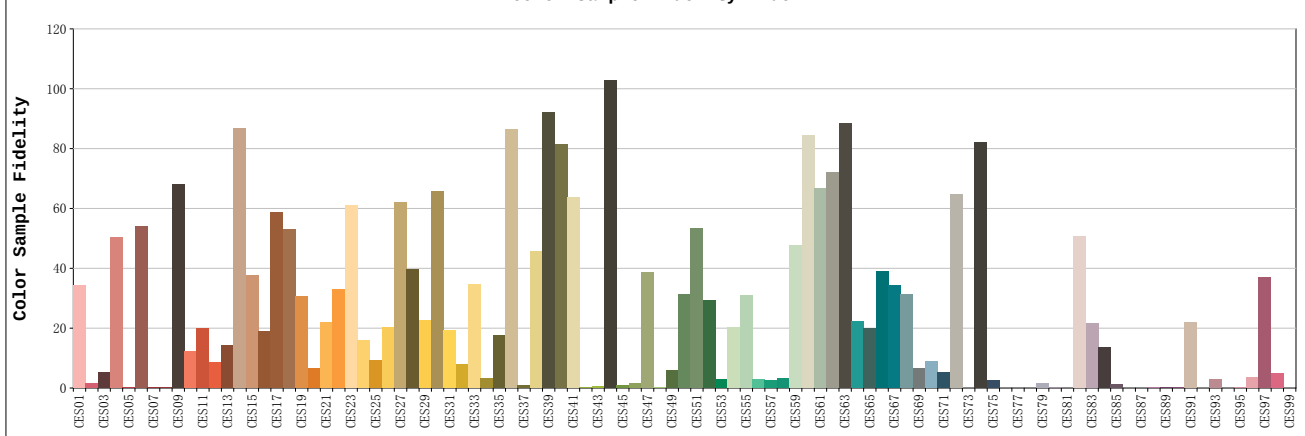
Local Hue Shift



COLOR RENDITION BY HUE(Fidelity Index)



Color Sample Fidelity Index



Colour Patches



Colourist's Advice Report

Sector	Lightness	Chroma	Hue
R	11	5	2
R/Y	1	2	-3
Y	-3	1	-5
Y/G	-4	-1	-1
G	-6	1	2
G/C	-4	2	1
C	-2	2	0
C/B	1	1	-4
B	5	-2	-4
B/M	4	-1	0
M	4	-1	5
M/R	11	2	8

SPECTRAL POWER DISTRIBUTION COMPARISON

TLCI-2012: 29

CCT: 100000 K

Duv: -0.1022

