

Lightsource Test Report

Product Infomation

Product Type: LED

Product Number: 4

Remark: Coefficient pulsation: 0,3%

Product Spec: FL 1500 40W 5000K

Manufacturer: FAROS

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3552$ $y=0.3603$ $u(u')=0.2148$ $v=0.3269$ $v'=0.4903$

CCT: $T_c=4672K$ ($duv=0.00045$)

Color Ratio: $R=0.169$ $G=0.783$ $B=0.048$

Peak Wavelength: 459.5nm

Half Bandwidth: 20.6nm

Dominant Wavelength: 575.5nm

Color Purity: 0.147

CRI: $R_a=84.4$

TM30: $R_f=78$, $R_g=91$

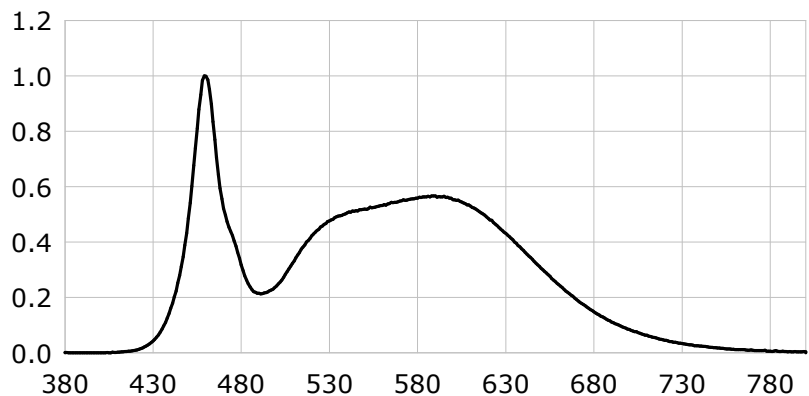
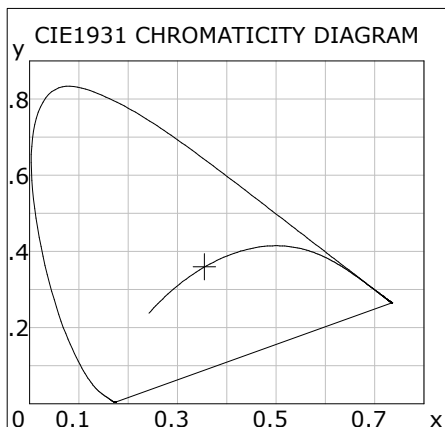
$R_1=84$ $R_2=93$ $R_3=95$ $R_4=78$ $R_5=82$ $R_6=87$ $R_7=85$ $R_8=70$

$R_9=24$ $R_{10}=80$ $R_{11}=76$ $R_{12}=53$ $R_{13}=88$ $R_{14}=98$ $R_{15}=81$

Color Quality Scale: $Q_a=81.5$, $Q_f=81.8$, $Q_p=80.3$, $Q_g=90.6$

$Q_1=80$ $Q_2=96$ $Q_3=80$ $Q_4=69$ $Q_5=73$ $Q_6=75$ $Q_7=83$ $Q_8=89$

$Q_9=97$ $Q_{10}=91$ $Q_{11}=86$ $Q_{12}=86$ $Q_{13}=86$ $Q_{14}=77$ $Q_{15}=80$



Photometric Parameters

Luminous Flux: 5092.49 lm

Efficiency: 130.38 lm/W

Radiant Power: 16.027 W

EEL: 0.10

Energy Efficiency Class: A++ (EU 874-2012)

PAR: 15.667 W

PPF: 72.611 $\mu\text{mol/s}$

R/B: 1.1

Electric Parameters

Voltage: 219.80V

Current: 0.1840A

Power: 39.06W

Power Factor: 0.9630

Frequency: 50.00Hz

Test Infomation

Scan Range: 380~800:1nm

Stabilization Time: 0 Min

Max of Signal: 54075 (3012)

Photometric Method: sphere-spectroradiometer

Photometric Condition: Sphere diameter: 2.00m, 4PI

CCD Integration Time: 102.29 ms

Condition: $T_x=24.0^\circ\text{C}$, $T_i=23.0^\circ\text{C}$, R.H.:60%

Test Lab:

Operator:

Test Device: Lisun LMS-9000A(Plus)

Test Time: 2018-05-11 20:19:12

Inspector: