

Lightsource Test Report

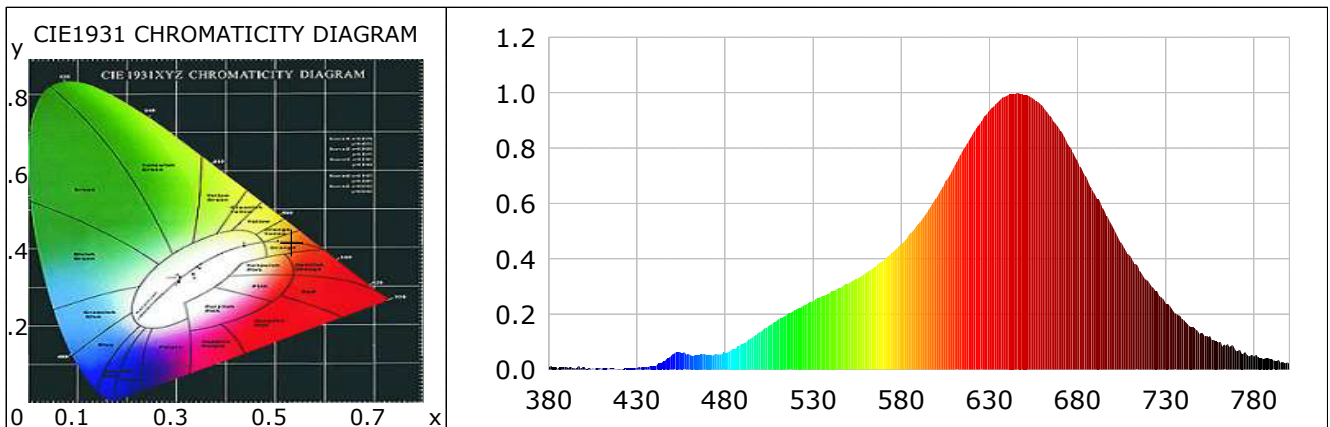
Product Information

Product Spec: KL-PS-FRD-12W-BK

Product Number: 2000K

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.5231$ $y=0.41977$ $u(u')=0.3062$ $v=0.3612$ $v'=0.5397$
CCT: $T_c=2059K$ ($duv=0.00114$) Color Ratio: $R=0.364$ $G=0.624$ $B=0.013$
Peak Wavelength: 646nm Half Bandwidth: 114.6nm
Dominant Wavelength: 588.5nm Color Purity: 0.858
Color Render Index: $R_a=91.7$, $CRI=92.7$
 $R1=95$ $R2=99$ $R3=93$ $R4=96$ $R5=98$ $R6=91$ $R7=86$ $R8=83$
 $R9=52$ $R10=97$ $R11=93$ $R12=88$ $R13=98$ $R14=96$ $R15=96$



Photometric Parameters

Luminous Flux: 409.99 lm

Efficiency: 67.88 lm/W

Radiant Power: 1.771 W

Electric Parameters

Voltage: 24.00V

Current: 0.2516A

Power: 6.04W

Power Factor: 0.0000

Frequency: 0.00Hz

Test Information

Scan Range: 380nm~800nm:1nm Photometric Method: sphere-spectroradiometer
Stabilization Time: 0 ms Photometric Condition: Sphere diameter: 2.00m, 4 π
Max of Signal: 43240 (6432) CCD Integration Time: 2785.67 ms

Condition: $T_x:0.0^{\circ}C$, $T_i:0.0^{\circ}C$, R.H.:60%

Test Lab:

Operator:

Test Device: Inventfine CMS-2

Test Time: 2025-09-03 9:28:30

Inspector:

Lightsource Test Report

Product Information

Product Number: KL-PS-FRD-12W-BK

Product Number: 4000K

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3948$ $y=0.3668$ $u(u')=0.2388$ $v=0.3328$ $v'=0.4993$

CCT: $T_c=3855K$ ($duv=-0.00796$)

Color Ratio: $R=0.237$ $G=0.717$ $B=0.046$

Peak Wavelength: 646nm

Half Bandwidth: 196.4nm

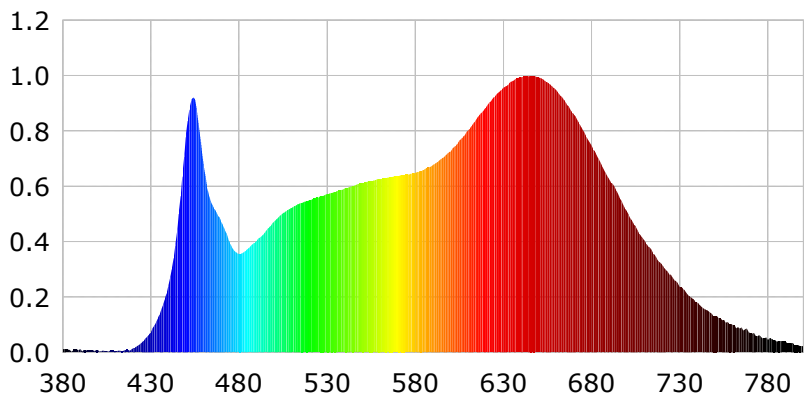
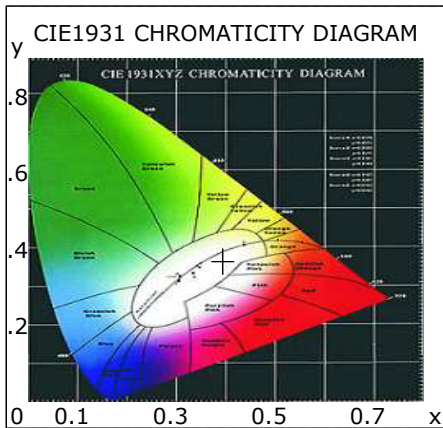
Dominant Wavelength: 585.6nm

Color Purity: 0.286

Color Render Index: $R_a=94.5$, $CRI=93.4$

$R_1=94$ $R_2=92$ $R_3=98$ $R_4=92$ $R_5=89$ $R_6=90$ $R_7=97$ $R_8=86$

$R_9=79$ $R_{10}=91$ $R_{11}=88$ $R_{12}=80$ $R_{13}=89$ $R_{14}=98$ $R_{15}=85$



Photometric Parameters

Luminous Flux: 991.58 lm

Efficiency: 82.77 lm/W

Radiant Power: 4.019 W

Electric Parameters

Voltage: 24.00V

Current: 0.4991A

Power: 11.98W

Power Factor: 0.0000

Frequency: 0.00Hz

Test Information

Scan Range: 380nm~800nm:1nm Photometric Method: sphere-spectroradiometer

Stabilization Time: 0 ms

Photometric Condition: Sphere diameter: 2.00m, 4T

Max of Signal: 44554 (6236)

CCD Integration Time: 1765.17 ms

Condition: $T_x:0.0^{\circ}C$, $T_i:0.0^{\circ}C$, R.H.:60%

Test Lab:

Operator:

Test Device: Inventfine CMS-2

Test Time: 2025-09-03 9:32:22

Inspector:

Lightsource Test Report

Product Information

Product Number: KL-PS-FRD-12W-BK

Product Number: 6000K

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3237$ $y=0.3397$ $u(u')=0.2013$ $v=0.3170$ $v'=0.4756$

CCT: $T_c=6219K$ ($duv=0.00512$)

Color Ratio: $R=0.163$ $G=0.770$ $B=0.067$

Peak Wavelength: 454nm

Half Bandwidth: 24.6nm

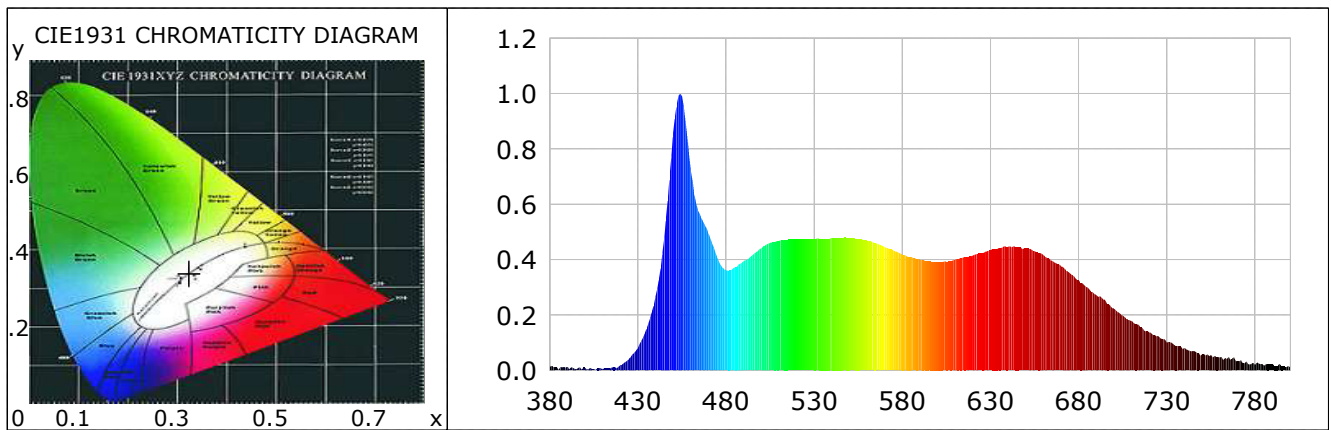
Dominant Wavelength: 500.5nm

Color Purity: 0.030

Color Render Index: $R_a=92.4$, $CRI=89.4$

$R_1=93$ $R_2=96$ $R_3=97$ $R_4=92$ $R_5=93$ $R_6=93$ $R_7=93$ $R_8=85$

$R_9=64$ $R_{10}=94$ $R_{11}=94$ $R_{12}=64$ $R_{13}=97$ $R_{14}=94$ $R_{15}=90$



Photometric Parameters

Luminous Flux: 559.65 lm

Efficiency: 93.12 lm/W

Radiant Power: 2.303 W

Electric Parameters

Voltage: 24.00V

Current: 0.2504A

Power: 6.01W

Power Factor: 0.0000

Frequency: 0.00Hz

Test Information

Scan Range: 380nm~800nm:1nm Photometric Method: sphere-spectroradiometer

Stabilization Time: 0 ms

Photometric Condition: Sphere diameter: 2.00m, 4T

Max of Signal: 40283 (6348)

CCD Integration Time: 1765.17 ms

Condition: $T_x:0.0^{\circ}C$, $T_i:0.0^{\circ}C$, R.H.:60%

Test Lab:

Operator:

Test Device: Inventfine CMS-2

Test Time: 2025-09-03 9:34:02

Inspector: