

Lightsource Test Report

Product Information

Product Type: KL-WL180R-18W-BK

Product Number: 2000K

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.5171$ $y=0.4197$ $u(u')=0.2954$ $v=0.3596$ $v'=0.5394$

CCT: $T_c=2123K$ ($duv=0.00157$)

Color Ratio: $R=0.331$ $G=0.654$ $B=0.015$

Peak Wavelength: 635.6nm

Half Bandwidth: 115.8nm

Dominant Wavelength: 587.6nm

Color Purity: 0.825

Color Render Index: $R_a=93.1$, $CRI=92.8$

$R1=93$ $R2=96$ $R3=99$ $R4=93$

$R5=93$

$R6=98$

$R7=90$

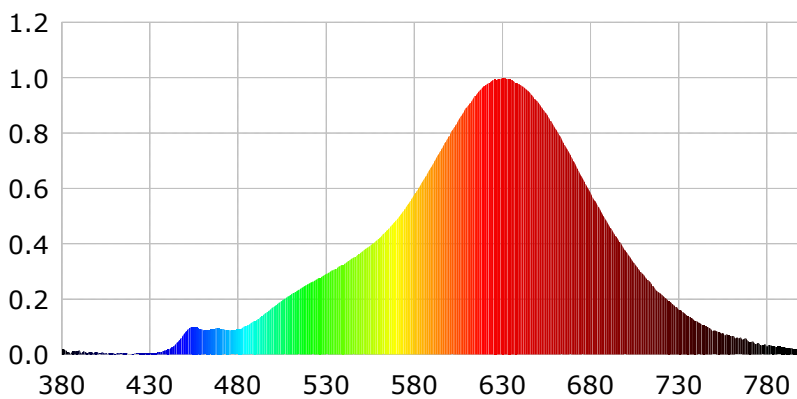
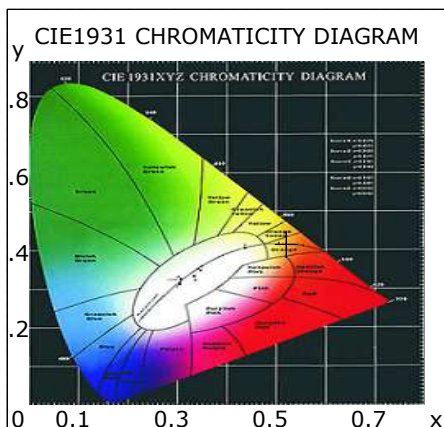
$R8=78$

$R9=57$ $R10=92$ $R11=96$ $R12=93$

$R13=94$

$R14=98$

$R15=86$



Photometric Parameters

Luminous Flux: 484.42 lm

Efficiency: 52.77 lm/W

Radiant Power: 3.062 W

Electric Parameters

Voltage: 24.00V

Current: 0.3825A

Power: 9.18W

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: 43069 (5427)

CCD Integration Time: 1340.17 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: 2025-12-29 09:10:54

Inspector:

Lightsource Test Report

Product Information

Product Type: KL-WL180R-18W-BK

Product Number: 4000K

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3939$ $y=0.3723$ $u(u')=0.2359$ $v=0.3344$ $v'=0.4998$

CCT: $T_c=3611K$ ($duv=-0.00507$)

Color Ratio: $R=0.226$ $G=0.730$ $B=0.044$

Peak Wavelength: 450nm

Half Bandwidth: 25.6nm

Dominant Wavelength: 584.5nm

Color Purity: 0.284

Color Render Index: $R_a=95.2$, $CRI=92.7$

$R1=96$

$R2=97$

$R3=92$

$R4=99$

$R5=96$

$R6=93$

$R7=95$

$R8=97$

$R9=96$

$R10=91$

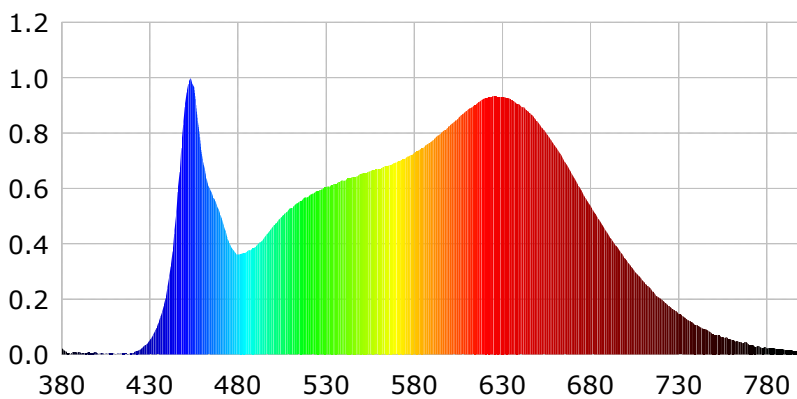
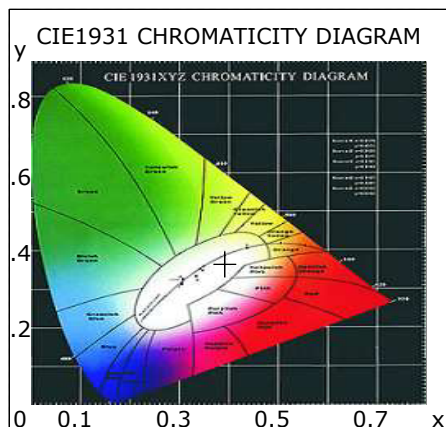
$R11=96$

$R12=82$

$R13=95$

$R14=94$

$R15=96$



Photometric Parameters

Luminous Flux: 1120.61 lm

Efficiency: 61.64 lm/W

Radiant Power: 6.679 W

Electric Parameters

Voltage: 24.00V

Current: 0.7575A

Power: 18.18W

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: 44735 (5167)

CCD Integration Time: 856.52 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: 2025-12-29 09:11:47

Inspector:

Lightsource Test Report

Product Information

Product Type: KL-WL180R-18W-BK

Product Number: 6000K

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3215$ $y=0.3450$ $u(u')=0.1980$ $v=0.3186$ $v'=0.4779$

CCT: $T_c=5986K$ ($duv=0.00696$)

Color Ratio: $R=0.147$ $G=0.788$ $B=0.065$

Peak Wavelength: 450nm

Half Bandwidth: 23.9nm

Dominant Wavelength: 495.2nm

Color Purity: 0.059

Color Render Index: $R_a=92.1$, $CRI=91.9$

$R1=94$ $R2=91$ $R3=89$ $R4=93$

$R5=90$

$R6=88$

$R7=93$

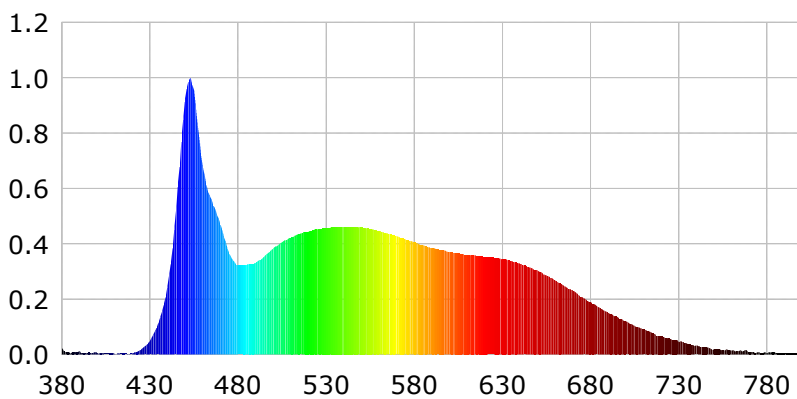
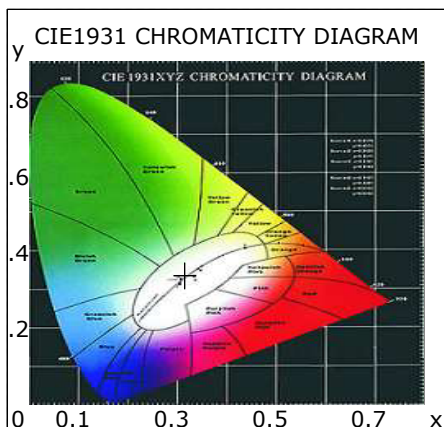
$R8=91$

$R9=81$ $R10=80$ $R11=90$ $R12=65$

$R13=95$

$R14=91$

$R15=93$



Photometric Parameters

Luminous Flux: 636.55 lm

Efficiency: 70.65 lm/W

Radiant Power: 3.566 W

Electric Parameters

Voltage: 24.00V

Current: 0.3754A

Power: 9.01W

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, 4 π

Max of Signal: 46342 (5182)

CCD Integration Time: 1043.87 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: 2025-12-29 09:09:50

Inspector: