

Lightsource Test Report

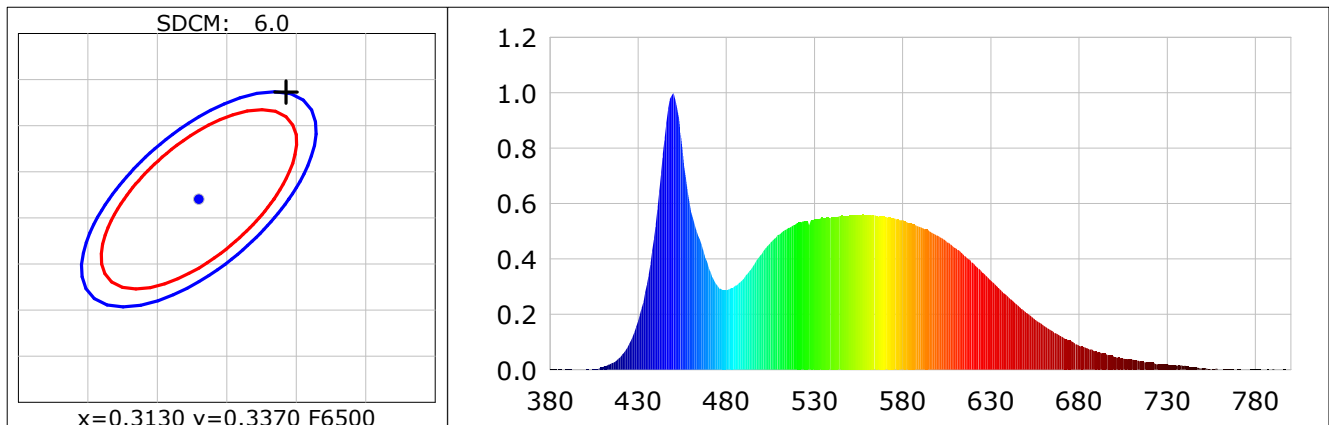
Product Infomation

Product Spec: 10W-6000K-C

Product Number: 1

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3193$ $y=0.3486$ $u(u')=0.1951$ $v=0.3196$ $v'=0.4794$
 CCT: $T_c=6076K$ ($duv=0.00980$) Color Ratio: $R=0.131$ $G=0.816$ $B=0.053$
 Peak Wavelength: 449.7nm Half Bandwidth: 23.6nm
 Dominant Wavelength: 506.8nm Color Purity: 0.043
 CRI: $R_a=82.9$ TM30: $R_f=81$, $R_g=93$
 $R_1=81$ $R_2=83$ $R_3=86$ $R_4=88$ $R_5=82$ $R_6=78$ $R_7=92$ $R_8=75$
 $R_9=8$ $R_{10}=60$ $R_{11}=87$ $R_{12}=52$ $R_{13}=81$ $R_{14}=92$ $R_{15}=76$
 Color Quality Scale: $Q_a=82.4$, $Q_f=82.8$, $Q_p=80.9$, $Q_g=89.3$
 $Q_1=83$ $Q_2=98$ $Q_3=82$ $Q_4=75$ $Q_5=79$ $Q_6=81$ $Q_7=85$ $Q_8=91$
 $Q_9=97$ $Q_{10}=89$ $Q_{11}=85$ $Q_{12}=84$ $Q_{13}=83$ $Q_{14}=71$ $Q_{15}=76$



Photometric Parameters

Luminous Flux: 940.27 lm
EEI: 0.14

Efficiency: 94.03 lm/W

Radiant Power: 2.915 W

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

Electric Parameters

Voltage: 230.00V
Power Factor: 0.9510

Current: 0.0450A
Frequency: 50.00Hz

Power: 10.00W

Test Infomation

Scan Range: 380~800:1nm
Stabilization Time: 30 Sec
Max of Signal: 45056 (1744)

Photometric Method: sphere-spectroradiometer
Photometric Condition: Sphere diameter: 1.50m, 4T
CCD Integration Time: 1648.36 ms

Condition: $T_x:0.0^\circ C$, $T_i:0.0^\circ C$, R.H.:60%
Test Lab:
Operator:

Test Device: Inventfine CMS-2S (Plus)
Test Time: 2020-02-20 09:13:53
Inspector:

Lightsource Test Report

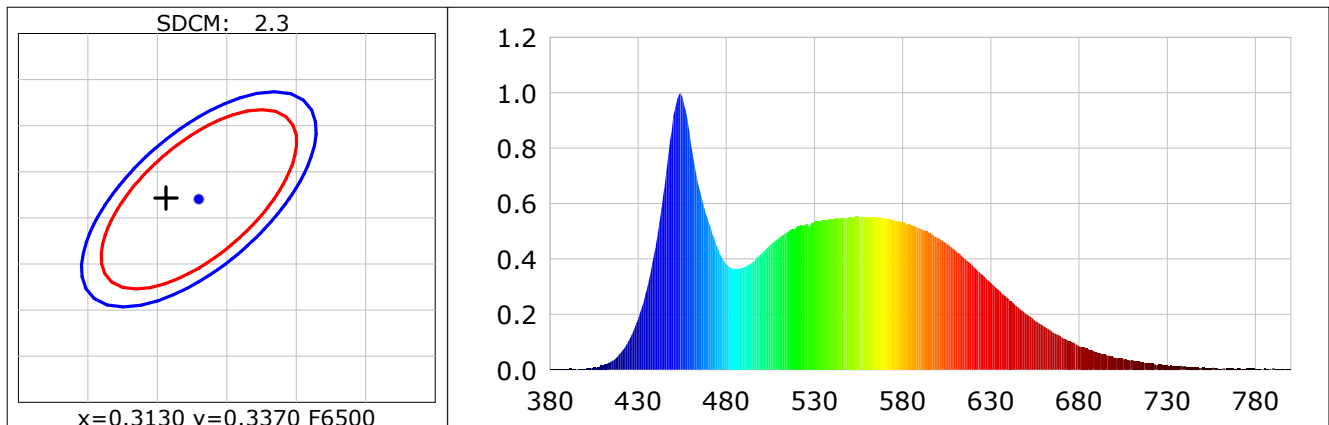
Product Information

Product Spec: 10W-6000K-H

Product Number: 2

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3106$ $y=0.3371$ $u(u')=0.1934$ $v=0.3149$ $v'=0.4723$
 CCT: $T_c=6554K$ ($duv=0.00832$) Color Ratio: $R=0.129$ $G=0.809$ $B=0.062$
 Peak Wavelength: 453.8nm Half Bandwidth: 30.5nm
 Dominant Wavelength: 493.9nm Color Purity: 0.074
 CRI: $R_a=85.0$ TM30: $R_f=81$, $R_g=92$
 $R_1=83$ $R_2=87$ $R_3=90$ $R_4=86$ $R_5=83$ $R_6=82$ $R_7=93$ $R_8=76$
 $R_9=16$ $R_{10}=68$ $R_{11}=85$ $R_{12}=54$ $R_{13}=84$ $R_{14}=94$ $R_{15}=79$
 Color Quality Scale: $Q_a=82.4$, $Q_f=82.8$, $Q_p=80.7$, $Q_g=88.8$
 $Q_1=81$ $Q_2=97$ $Q_3=84$ $Q_4=74$ $Q_5=77$ $Q_6=78$ $Q_7=83$ $Q_8=90$
 $Q_9=97$ $Q_{10}=92$ $Q_{11}=86$ $Q_{12}=85$ $Q_{13}=84$ $Q_{14}=74$ $Q_{15}=77$



Photometric Parameters

Luminous Flux: 730.76 lm
EEI: 0.15

Efficiency: 82.11 lm/W

Radiant Power: 2.337 W

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

Electric Parameters

Voltage: 230.10V

Current: 0.0420A

Power: 8.90W

Power Factor: 0.9280

Frequency: 50.00Hz

Test Information

Scan Range: 380~800:1nm
Stabilization Time: 30 Min
Max of Signal: 44384 (1935)

Photometric Method: sphere-spectroradiometer
Photometric Condition: Sphere diameter: 1.50m, 4T
CCD Integration Time: 2008.33 ms

Condition: $T_x:0.0^\circ C$, $T_i:0.0^\circ C$, R.H.:60%
Test Lab:
Operator:

Test Device: Inventfine CMS-2S (Plus)
Test Time: 2020-02-20 09:45:20
Inspector:

Lightsource Test Report

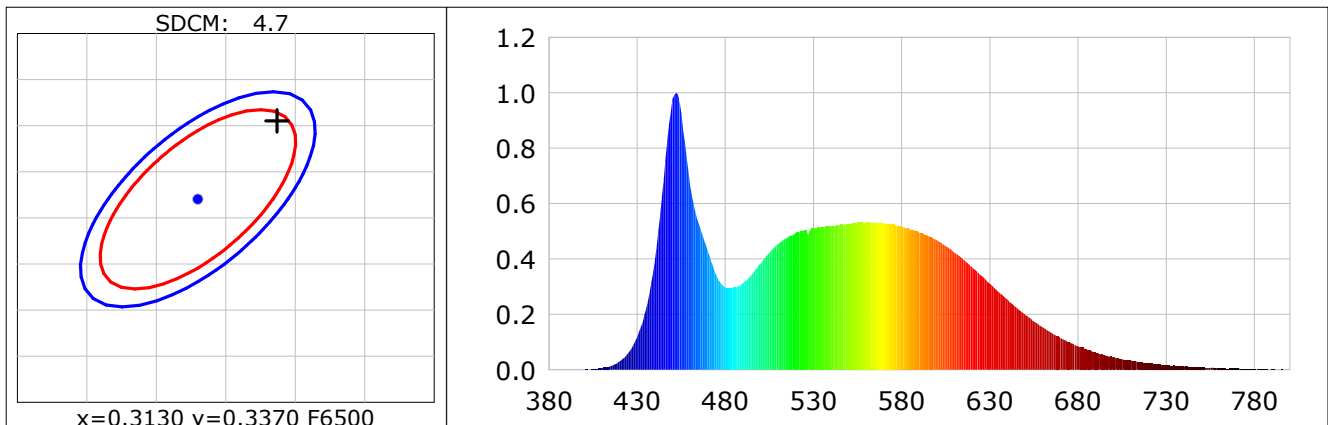
Product Infomation

Product Spec: 20W-6000K-C

Product Number: 3

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3187$ $y=0.3455$ $u(u')=0.1959$ $v=0.3185$ $v'=0.4778$
 CCT: $T_c=6114K$ ($duv=0.00855$) Color Ratio: $R=0.133$ $G=0.811$ $B=0.056$
 Peak Wavelength: 452.1nm Half Bandwidth: 24.3nm
 Dominant Wavelength: 502.9nm Color Purity: 0.044
 CRI: $R_a=83.9$ TM30: $R_f=80$, $R_g=93$
 $R_1=82$ $R_2=86$ $R_3=88$ $R_4=87$ $R_5=82$ $R_6=79$ $R_7=93$ $R_8=75$
 $R_9=12$ $R_{10}=64$ $R_{11}=86$ $R_{12}=50$ $R_{13}=83$ $R_{14}=93$ $R_{15}=78$
 Color Quality Scale: $Q_a=81.9$, $Q_f=82.2$, $Q_p=80.3$, $Q_g=89.0$
 $Q_1=82$ $Q_2=97$ $Q_3=82$ $Q_4=73$ $Q_5=77$ $Q_6=79$ $Q_7=84$ $Q_8=91$
 $Q_9=97$ $Q_{10}=90$ $Q_{11}=85$ $Q_{12}=84$ $Q_{13}=83$ $Q_{14}=72$ $Q_{15}=77$



Photometric Parameters

Luminous Flux: 1795.20 lm
EEI: 0.15

Efficiency: 91.59 lm/W
Energy Efficiency Class: A+ (EU 874-2012)

Radiant Power: 5.595 W

Electric Parameters

Voltage: 230.10V
Power Factor: 0.8950

Current: 0.0950A
Frequency: 50.00Hz

Power: 19.60W

Test Infomation

Scan Range: 380~800:1nm
Stabilization Time: 30 Sec
Max of Signal: 45402 (1747)

Photometric Method: sphere-spectroradiometer
Photometric Condition: Sphere diameter: 1.50m, 4T
CCD Integration Time: 816.34 ms

Condition: $T_x:0.0^\circ C$, $T_i:0.0^\circ C$, R.H.:60%
Test Lab:
Operator:

Test Device: Inventfine CMS-2S (Plus)
Test Time: 2020-02-20 09:52:57
Inspector:

Lightsource Test Report

Product Infomation

Product Spec: 20W-6000K-H

Product Number: 4

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3133$ $y=0.3389$ $u(u')=0.1946$ $v=0.3158$ $v'=0.4736$

CCT: $T_c=6404K$ ($duv=0.00790$)

Color Ratio: $R=0.131$ $G=0.807$ $B=0.062$

Peak Wavelength: 454.0nm

Half Bandwidth: 27.9nm

Dominant Wavelength: 495.3nm

Color Purity: 0.064

CRI: $R_a=85.0$

TM30: $R_f=80$, $R_g=91$

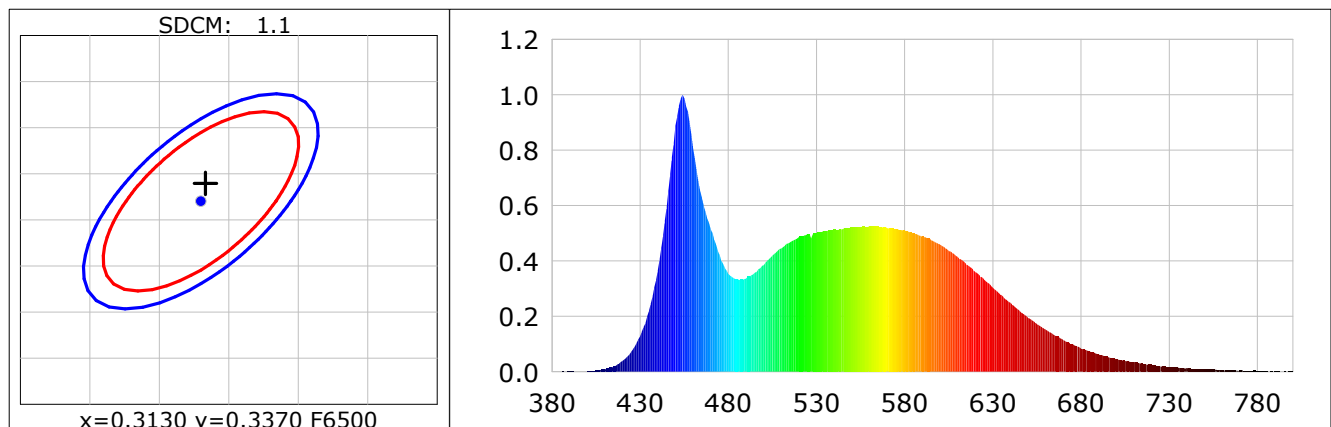
$R_1=83$ $R_2=88$ $R_3=90$ $R_4=85$ $R_5=82$ $R_6=82$ $R_7=93$ $R_8=76$

$R_9=18$ $R_{10}=69$ $R_{11}=85$ $R_{12}=52$ $R_{13}=85$ $R_{14}=95$ $R_{15}=80$

Color Quality Scale: $Q_a=82.1$, $Q_f=82.4$, $Q_p=80.3$, $Q_g=88.7$

$Q_1=80$ $Q_2=96$ $Q_3=84$ $Q_4=73$ $Q_5=76$ $Q_6=77$ $Q_7=83$ $Q_8=90$

$Q_9=97$ $Q_{10}=92$ $Q_{11}=86$ $Q_{12}=85$ $Q_{13}=84$ $Q_{14}=74$ $Q_{15}=77$



Photometric Parameters

Luminous Flux: 1586.71 lm
EEI: 0.16

Efficiency: 85.77 lm/W

Radiant Power: 5.048 W

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

Electric Parameters

Voltage: 230.20V

Current: 0.0910A

Power: 18.50W

Power Factor: 0.8800

Frequency: 50.00Hz

Test Infomation

Scan Range: 380~800:1nm

Stabilization Time: 30 Min

Max of Signal: 45304 (1829)

Photometric Method: sphere-spectroradiometer

Photometric Condition: Sphere diameter: 1.50m, 4T

CCD Integration Time: 893.48 ms

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

Test Lab:

Operator:

Test Device: Inventfine CMS-2S (Plus)

Test Time: 2020-02-20 10:23:53

Inspector:

Lightsource Test Report

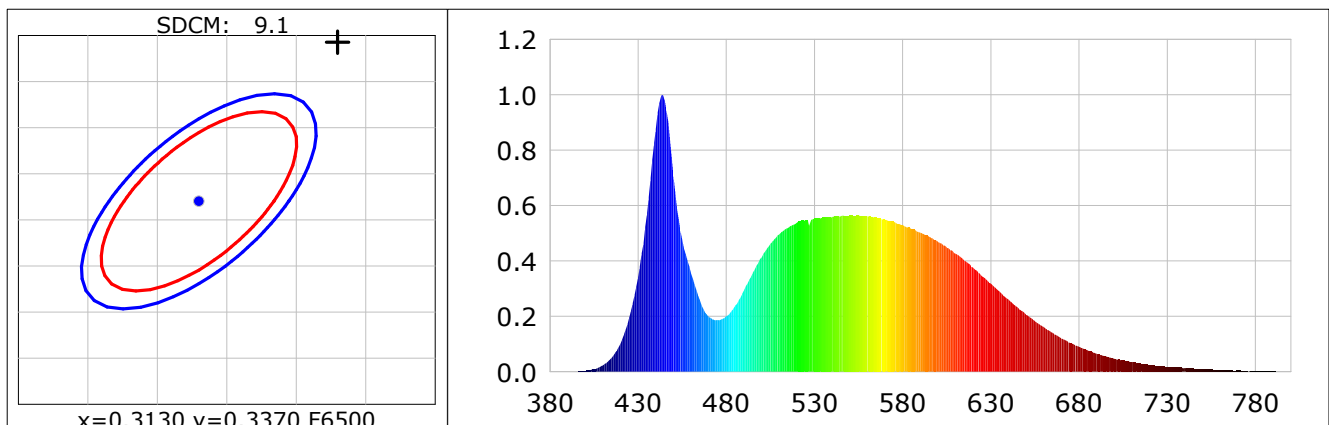
Product Information

Product Spec: 30W-6000K-C

Product Number: 5

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3230$ $y=0.3543$ $u(u')=0.1956$ $v=0.3218$ $v'=0.4827$
 CCT: $T_c=5898K$ ($duv=0.01082$) Color Ratio: $R=0.130$ $G=0.826$ $B=0.044$
 Peak Wavelength: 443.6nm Half Bandwidth: 20.6nm
 Dominant Wavelength: 521.5nm Color Purity: 0.042
 CRI: $R_a=78.8$ TM30: $R_f=79$, $R_g=95$
 $R_1=78$ $R_2=78$ $R_3=79$ $R_4=85$ $R_5=80$ $R_6=73$ $R_7=85$ $R_8=73$
 $R_9=0$ $R_{10}=48$ $R_{11}=87$ $R_{12}=55$ $R_{13}=76$ $R_{14}=88$ $R_{15}=72$
 Color Quality Scale: $Q_a=81.9$, $Q_f=82.1$, $Q_p=81.7$, $Q_g=90.6$
 $Q_1=84$ $Q_2=97$ $Q_3=80$ $Q_4=78$ $Q_5=82$ $Q_6=83$ $Q_7=86$ $Q_8=92$
 $Q_9=95$ $Q_{10}=84$ $Q_{11}=82$ $Q_{12}=81$ $Q_{13}=82$ $Q_{14}=69$ $Q_{15}=75$



Photometric Parameters

Luminous Flux: 3143.90 lm
EEI: 0.13

Efficiency: 108.04 lm/W
Energy Efficiency Class: A+ (EU 874-2012)

Radiant Power: 9.661 W

Electric Parameters

Voltage: 230.10V
Power Factor: 0.9930

Current: 0.1270A
Frequency: 50.00Hz

Power: 29.10W

Test Information

Scan Range: 380~800:1nm
Stabilization Time: 30 Sec
Max of Signal: 44457 (1723)

Photometric Method: sphere-spectroradiometer
Photometric Condition: Sphere diameter: 1.50m, 4T
CCD Integration Time: 458.18 ms

Condition: $T_x:0.0^\circ C$, $T_i:0.0^\circ C$, R.H.:60%
Test Lab:
Operator:

Test Device: Inventfine CMS-2S (Plus)
Test Time: 2020-02-20 10:28:06
Inspector:

Lightsource Test Report

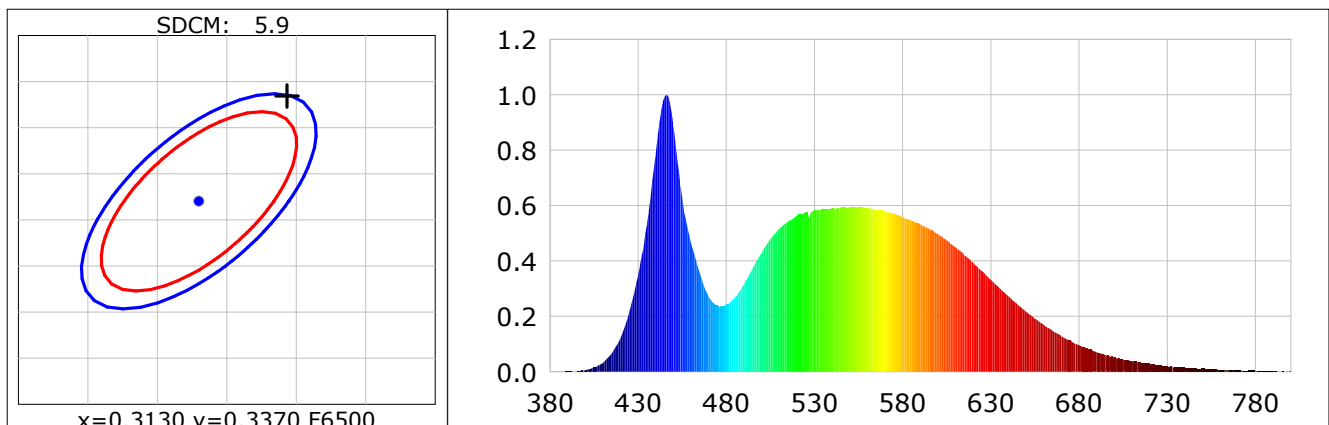
Product Information

Product Spec: 30W-6000K-H

Product Number: 6

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3193$ $y=0.3484$ $u(u')=0.1952$ $v=0.3195$ $v'=0.4793$
 CCT: $T_c=6074K$ ($duv=0.00968$) Color Ratio: $R=0.129$ $G=0.824$ $B=0.047$
 Peak Wavelength: 446.0nm Half Bandwidth: 24.6nm
 Dominant Wavelength: 506.6nm Color Purity: 0.043
 CRI: $R_a=80.1$ TM30: $R_f=80$, $R_g=95$
 $R_1=79$ $R_2=79$ $R_3=80$ $R_4=87$ $R_5=81$ $R_6=74$ $R_7=87$ $R_8=74$
 $R_9=4$ $R_{10}=51$ $R_{11}=87$ $R_{12}=54$ $R_{13}=77$ $R_{14}=89$ $R_{15}=74$
 Color Quality Scale: $Q_a=81.9$, $Q_f=82.1$, $Q_p=81.7$, $Q_g=90.5$
 $Q_1=85$ $Q_2=98$ $Q_3=80$ $Q_4=76$ $Q_5=81$ $Q_6=83$ $Q_7=86$ $Q_8=91$
 $Q_9=95$ $Q_{10}=85$ $Q_{11}=82$ $Q_{12}=81$ $Q_{13}=82$ $Q_{14}=70$ $Q_{15}=76$



Photometric Parameters

Luminous Flux: 2872.79 lm
EEI: 0.14

Efficiency: 100.45 lm/W
Energy Efficiency Class: A+ (EU 874-2012)

Radiant Power: 8.958 W

Electric Parameters

Voltage: 230.20V
Power Factor: 0.9930

Current: 0.1250A
Frequency: 50.00Hz

Power: 28.60W

Test Information

Scan Range: 380~800:1nm
Stabilization Time: 30 Min
Max of Signal: 46452 (1817)

Photometric Method: sphere-spectroradiometer
Photometric Condition: Sphere diameter: 1.50m, 4T
CCD Integration Time: 567.96 ms

Condition: $T_x:0.0^\circ C$, $T_i:0.0^\circ C$, R.H.:60%
Test Lab:
Operator:

Test Device: Inventfine CMS-2S (Plus)
Test Time: 2020-02-20 11:08:07
Inspector:

Lightsource Test Report

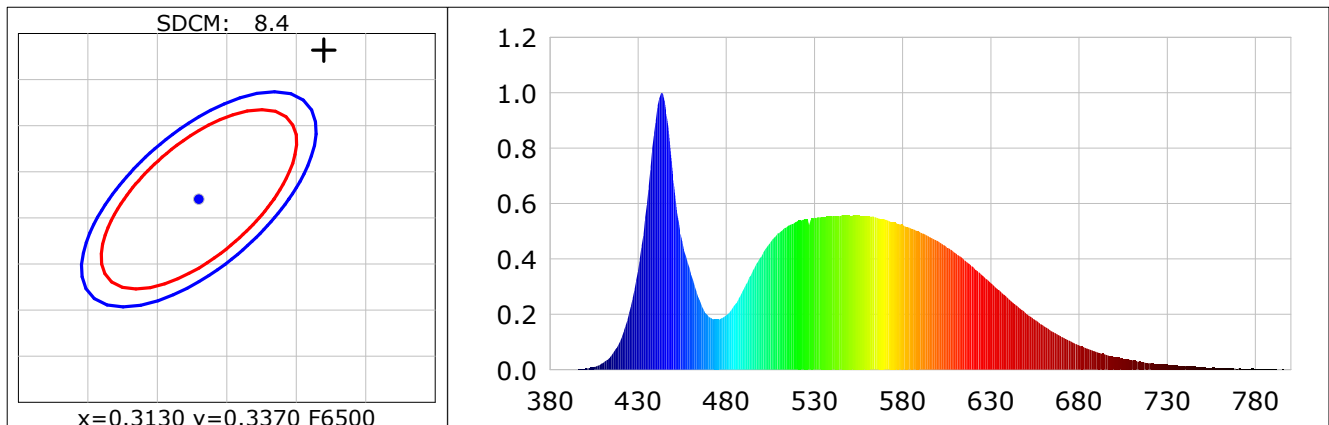
Product Information

Product Spec: 50W-6000K-C

Product Number: 7

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3220$ $y=0.3532$ $u(u')=0.1953$ $v=0.3214$ $v'=0.4820$
 CCT: $T_c=5942K$ ($duv=0.01075$) Color Ratio: $R=0.129$ $G=0.827$ $B=0.044$
 Peak Wavelength: 443.4nm Half Bandwidth: 20.6nm
 Dominant Wavelength: 517.2nm Color Purity: 0.040
 CRI: $R_a=78.7$ TM30: $R_f=79$, $R_g=96$
 $R_1=78$ $R_2=77$ $R_3=79$ $R_4=85$ $R_5=80$ $R_6=73$ $R_7=85$ $R_8=73$
 $R_9=0$ $R_{10}=48$ $R_{11}=87$ $R_{12}=55$ $R_{13}=76$ $R_{14}=88$ $R_{15}=72$
 Color Quality Scale: $Q_a=82.0$, $Q_f=82.1$, $Q_p=81.9$, $Q_g=90.7$
 $Q_1=84$ $Q_2=97$ $Q_3=80$ $Q_4=78$ $Q_5=82$ $Q_6=83$ $Q_7=86$ $Q_8=92$
 $Q_9=95$ $Q_{10}=84$ $Q_{11}=82$ $Q_{12}=81$ $Q_{13}=82$ $Q_{14}=69$ $Q_{15}=75$



Photometric Parameters

Luminous Flux: 5069.05 lm Efficiency: 105.61 lm/W Radiant Power: 15.622 W
 EEI: 0.13 Energy Efficiency Class: A+ (EU 874-2012)

Electric Parameters

Voltage: 230.10V Current: 0.2100A Power: 48.00W
 Power Factor: 0.9930 Frequency: 50.00Hz

Test Information

Scan Range: 380~800:1nm Photometric Method: sphere-spectroradiometer
 Stabilization Time: 30 Sec Photometric Condition: Sphere diameter: 1.50m, 4T
 Max of Signal: 46984 (1737) CCD Integration Time: 295.20 ms

Condition: $T_x:0.0^\circ C$, $T_i:0.0^\circ C$, R.H.:60%
 Test Lab:
 Operator:

Test Device: Inventfine CMS-2S (Plus)
 Test Time: 2020-02-20 11:15:43
 Inspector:

Lightsource Test Report

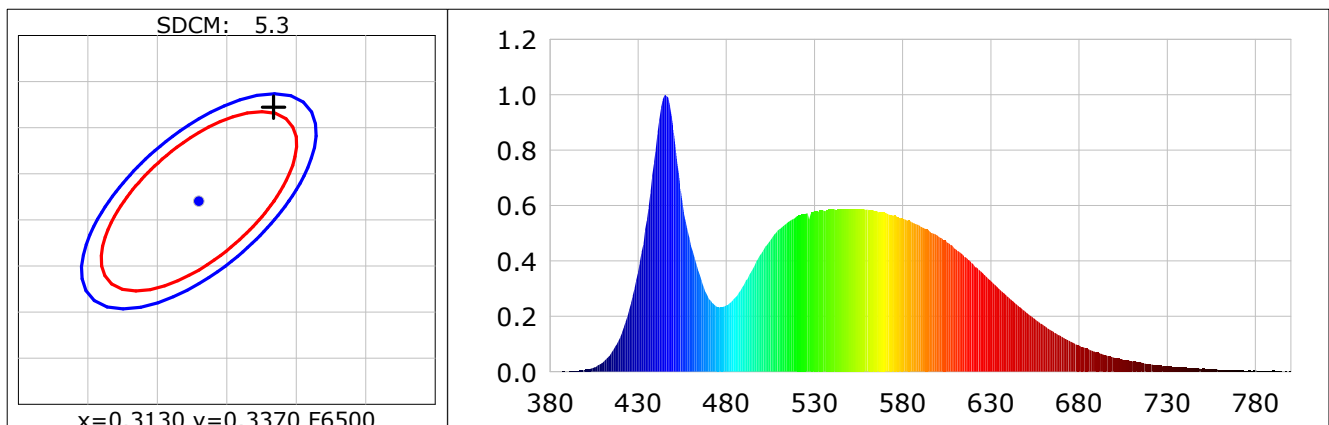
Product Information

Product Spec: 50W-6000K-H

Product Number: 8

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3184$ $y=0.3472$ $u(u')=0.1950$ $v=0.3190$ $v'=0.4786$
 CCT: $T_c=6122K$ ($duv=0.00954$) Color Ratio: $R=0.129$ $G=0.824$ $B=0.048$
 Peak Wavelength: 445.3nm Half Bandwidth: 24.6nm
 Dominant Wavelength: 504.3nm Color Purity: 0.045
 CRI: $R_a=80.1$ TM30: $R_f=80$, $R_g=96$
 $R_1=79$ $R_2=79$ $R_3=80$ $R_4=86$ $R_5=81$ $R_6=74$ $R_7=87$ $R_8=74$
 $R_9=4$ $R_{10}=51$ $R_{11}=87$ $R_{12}=55$ $R_{13}=77$ $R_{14}=89$ $R_{15}=74$
 Color Quality Scale: $Q_a=82.0$, $Q_f=82.1$, $Q_p=81.8$, $Q_g=90.6$
 $Q_1=85$ $Q_2=98$ $Q_3=80$ $Q_4=76$ $Q_5=81$ $Q_6=83$ $Q_7=86$ $Q_8=92$
 $Q_9=95$ $Q_{10}=85$ $Q_{11}=82$ $Q_{12}=81$ $Q_{13}=82$ $Q_{14}=70$ $Q_{15}=76$



Photometric Parameters

Luminous Flux: 4638.27 lm
EEI: 0.14

Efficiency: 98.48 lm/W

Radiant Power: 14.505 W

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

Electric Parameters

Voltage: 230.10V

Current: 0.2060A

Power: 47.10W

Power Factor: 0.9920

Frequency: 50.00Hz

Test Information

Scan Range: 380~800:1nm
Stabilization Time: 30 Min
Max of Signal: 46442 (1785)

Photometric Method: sphere-spectroradiometer
Photometric Condition: Sphere diameter: 1.50m, 4T
CCD Integration Time: 346.48 ms

Condition: $T_x:0.0^\circ C$, $T_i:0.0^\circ C$, R.H.:60%
Test Lab:
Operator:

Test Device: Inventfine CMS-2S (Plus)
Test Time: 2020-02-20 11:46:05
Inspector:

Lightsource Test Report

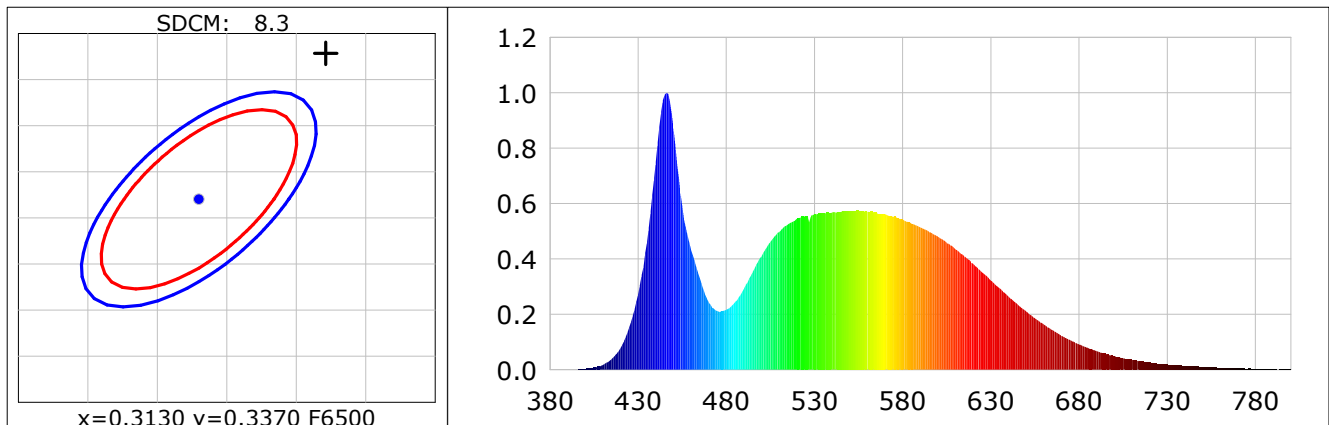
Product Infomation

Product Spec: 100W-6000K-C

Product Number: 9

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3221$ $y=0.3528$ $u(u')=0.1955$ $v=0.3213$ $v'=0.4819$
 CCT: $T_c=5936K$ ($duv=0.01052$) Color Ratio: $R=0.130$ $G=0.824$ $B=0.046$
 Peak Wavelength: 446.1nm Half Bandwidth: 21.7nm
 Dominant Wavelength: 516.9nm Color Purity: 0.040
 CRI: $R_a=79.7$ TM30: $R_f=80$, $R_g=94$
 $R_1=78$ $R_2=79$ $R_3=80$ $R_4=86$ $R_5=80$ $R_6=73$ $R_7=87$ $R_8=73$
 $R_9=1$ $R_{10}=50$ $R_{11}=86$ $R_{12}=52$ $R_{13}=77$ $R_{14}=89$ $R_{15}=73$
 Color Quality Scale: $Q_a=81.7$, $Q_f=81.9$, $Q_p=81.3$, $Q_g=90.1$
 $Q_1=84$ $Q_2=98$ $Q_3=79$ $Q_4=76$ $Q_5=81$ $Q_6=82$ $Q_7=85$ $Q_8=91$
 $Q_9=95$ $Q_{10}=85$ $Q_{11}=82$ $Q_{12}=82$ $Q_{13}=82$ $Q_{14}=69$ $Q_{15}=75$



Photometric Parameters

Luminous Flux: 10206.75 lm Efficiency: 103.31 lm/W Radiant Power: 31.350 W
 EEI: 0.13 Energy Efficiency Class: A+ (EU 874-2012)

Electric Parameters

Voltage: 230.10V Current: 0.4330A Power: 98.80W
 Power Factor: 0.9900 Frequency: 50.00Hz

Test Infomation

Scan Range: 380~800:1nm
 Stabilization Time: 30 Sec
 Max of Signal: 48497 (1760)

Photometric Method: sphere-spectroradiometer
 Photometric Condition: Sphere diameter: 1.50m, 4T
 CCD Integration Time: 161.25 ms

Condition: $T_x:0.0^\circ C$, $T_i:0.0^\circ C$, R.H.:60%
 Test Lab:
 Operator:

Test Device: Inventfine CMS-2S (Plus)
 Test Time: 2020-02-20 13:06:35
 Inspector:

Lightsource Test Report

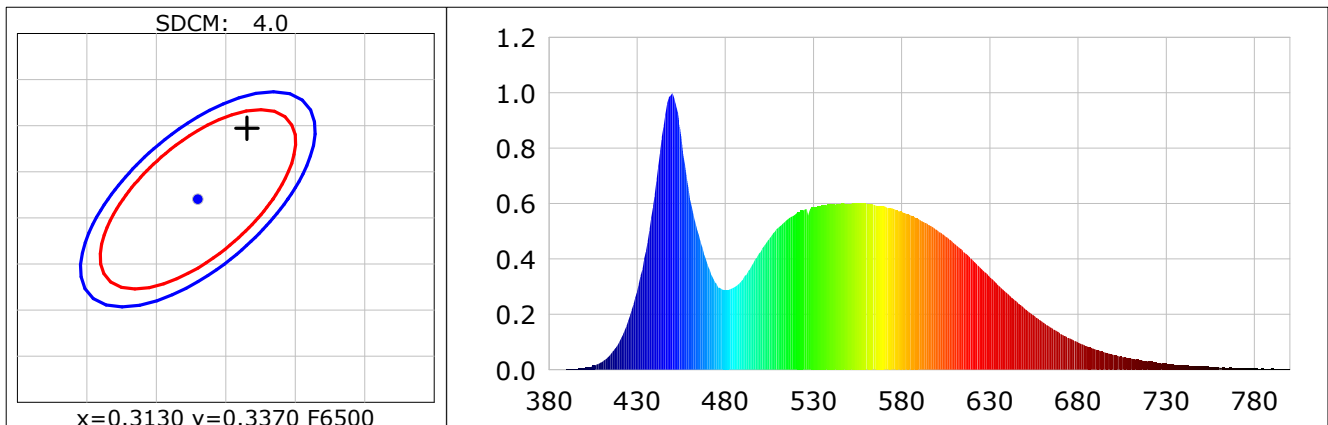
Product Information

Product Spec: 100W-6000K-H

Product Number: 10

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3165$ $y=0.3447$ $u(u')=0.1947$ $v=0.3180$ $v'=0.4770$
 CCT: $T_c=6218K$ ($duv=0.00918$) Color Ratio: $R=0.129$ $G=0.820$ $B=0.051$
 Peak Wavelength: 449.8nm Half Bandwidth: 27.5nm
 Dominant Wavelength: 500.7nm Color Purity: 0.051
 CRI: $R_a=81.8$ TM30: $R_f=81$, $R_g=94$
 $R1=80$ $R2=82$ $R3=83$ $R4=87$ $R5=81$ $R6=76$ $R7=90$ $R8=75$
 $R9=7$ $R10=56$ $R11=86$ $R12=52$ $R13=79$ $R14=91$ $R15=76$
 Color Quality Scale: $Q_a=81.8$, $Q_f=82.0$, $Q_p=80.9$, $Q_g=89.8$
 $Q1=84$ $Q2=98$ $Q3=80$ $Q4=74$ $Q5=79$ $Q6=81$ $Q7=85$ $Q8=91$
 $Q9=96$ $Q10=87$ $Q11=83$ $Q12=82$ $Q13=82$ $Q14=71$ $Q15=76$



Photometric Parameters

Luminous Flux: 8698.43 lm
EEI: 0.15

Efficiency: 90.61 lm/W

Radiant Power: 27.323 W

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

Electric Parameters

Voltage: 230.10V

Current: 0.4210A

Power: 96.00W

Power Factor: 0.9900

Frequency: 50.00Hz

Test Information

Scan Range: 380~800:1nm
Stabilization Time: 30 Min
Max of Signal: 47830 (1793)

Photometric Method: sphere-spectroradiometer
Photometric Condition: Sphere diameter: 1.50m, 4T
CCD Integration Time: 200.81 ms

Condition: $T_x:0.0^\circ C$, $T_i:0.0^\circ C$, R.H.:60%
Test Lab:
Operator:

Test Device: Inventfine CMS-2S (Plus)
Test Time: 2020-02-20 13:37:00
Inspector:

Lightsource Test Report

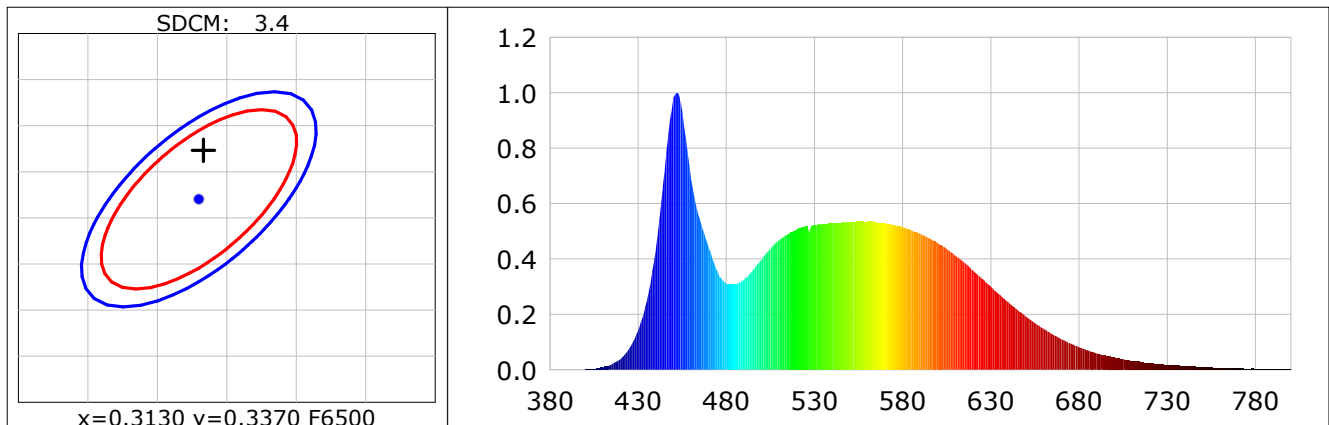
Product Infomation

Product Spec: 150W-6000K-C

Product Number: 11

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3133$ $y=0.3423$ $u(u')=0.1934$ $v=0.3169$ $v'=0.4754$
 CCT: $T_c=6384K$ ($duv=0.00956$) Color Ratio: $R=0.128$ $G=0.814$ $B=0.058$
 Peak Wavelength: 452.0nm Half Bandwidth: 25.7nm
 Dominant Wavelength: 497.6nm Color Purity: 0.063
 CRI: $R_a=83.6$ TM30: $R_f=80$, $R_g=92$
 $R_1=81$ $R_2=85$ $R_3=88$ $R_4=86$ $R_5=81$ $R_6=79$ $R_7=93$ $R_8=75$
 $R_9=10$ $R_{10}=63$ $R_{11}=85$ $R_{12}=50$ $R_{13}=82$ $R_{14}=93$ $R_{15}=77$
 Color Quality Scale: $Q_a=81.9$, $Q_f=82.3$, $Q_p=80.3$, $Q_g=88.7$
 $Q_1=81$ $Q_2=97$ $Q_3=82$ $Q_4=73$ $Q_5=77$ $Q_6=79$ $Q_7=84$ $Q_8=90$
 $Q_9=97$ $Q_{10}=90$ $Q_{11}=85$ $Q_{12}=84$ $Q_{13}=83$ $Q_{14}=72$ $Q_{15}=76$



Photometric Parameters

Luminous Flux: 14009.14 lm Efficiency: 95.11 lm/W Radiant Power: 43.959 W
 EEI: 0.14 Energy Efficiency Class: A+ (EU 874-2012)

Electric Parameters

Voltage: 229.80V Current: 0.6450A Power: 147.30W
 Power Factor: 0.9930 Frequency: 50.00Hz

Test Infomation

Scan Range: 380~800:1nm
 Stabilization Time: 30 Sec
 Max of Signal: 45683 (1762)

Photometric Method: sphere-spectroradiometer
 Photometric Condition: Sphere diameter: 1.50m, 4T
 CCD Integration Time: 105.97 ms

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

Test Device: Inventfine CMS-2S (Plus)
 Test Time: 2020-02-20 13:41:40
 Inspector:

Lightsource Test Report

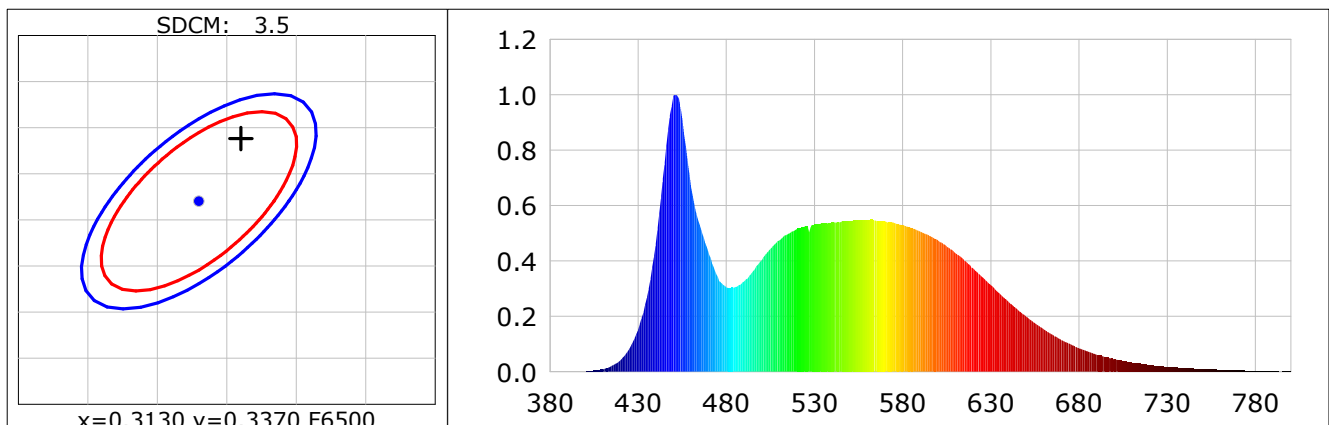
Product Information

Product Spec: 200W-6000K-C

Product Number: 13

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3160$ $y=0.3438$ $u(u')=0.1947$ $v=0.3177$ $v'=0.4765$
 CCT: $T_c=6246K$ ($duv=0.00898$) Color Ratio: $R=0.130$ $G=0.814$ $B=0.056$
 Peak Wavelength: 451.1nm Half Bandwidth: 25.7nm
 Dominant Wavelength: 499.7nm Color Purity: 0.053
 CRI: $R_a=83.5$ TM30: $R_f=81$, $R_g=93$
 $R_1=81$ $R_2=85$ $R_3=87$ $R_4=87$ $R_5=82$ $R_6=79$ $R_7=93$ $R_8=75$
 $R_9=10$ $R_{10}=63$ $R_{11}=86$ $R_{12}=51$ $R_{13}=82$ $R_{14}=93$ $R_{15}=77$
 Color Quality Scale: $Q_a=82.0$, $Q_f=82.3$, $Q_p=80.5$, $Q_g=89.0$
 $Q_1=82$ $Q_2=98$ $Q_3=82$ $Q_4=74$ $Q_5=78$ $Q_6=79$ $Q_7=84$ $Q_8=91$
 $Q_9=97$ $Q_{10}=90$ $Q_{11}=85$ $Q_{12}=84$ $Q_{13}=83$ $Q_{14}=72$ $Q_{15}=76$



Photometric Parameters

Luminous Flux: 19202.64 lm Efficiency: 92.41 lm/W Radiant Power: 60.076 W
 EEI: 0.15 Energy Efficiency Class: A+ (EU 874-2012)

Electric Parameters

Voltage: 229.80V Current: 0.9140A Power: 207.80W
 Power Factor: 0.9880 Frequency: 50.00Hz

Test Information

Scan Range: 380~800:1nm
 Stabilization Time: 30 Sec
 Max of Signal: 46645 (1812)

Photometric Method: sphere-spectroradiometer
 Photometric Condition: Sphere diameter: 1.50m, 4T
 CCD Integration Time: 80.96 ms

Condition: $T_x:0.0^\circ C$, $T_i:0.0^\circ C$, R.H.:60%
 Test Lab:
 Operator:

Test Device: Inventfine CMS-2S (Plus)
 Test Time: 2020-02-20 14:20:29
 Inspector: