

Lightsource Test Report

Product Information

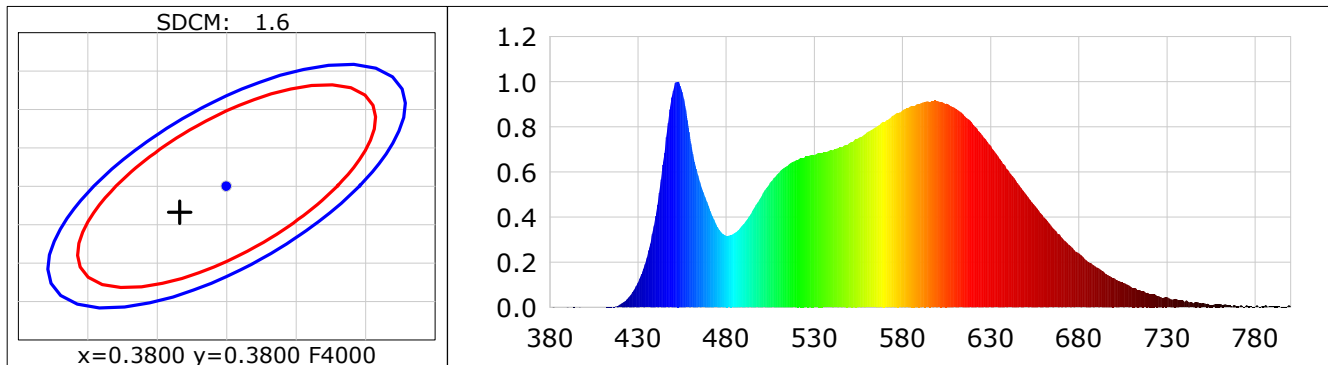
Product Category: CEL414
Product Spec: 20W-4000K

Product Type: 8070182002
Product Number: 1

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3766$ $y=0.3766$ $u(u')=0.2227$ $v=0.3340$ $v'(v')=0.5009$
 CCT: $T_c=4105K$ ($duv=0.00106$) Color Ratio: $R=0.184$ $G=0.776$ $B=0.040$
 Peak Wavelength: 452.6nm Half Bandwidth: 25.7nm
 Dominant Wavelength: 578.1nm Color Purity: 0.261
 Central Wave: 454.7nm Gravity Wave: 454.1nm
 CRI: $R_a=86.2$ TM30: $R_f=86$, $R_g=95$
 GAI: $GAI_BB_8=91.8$, $GAI_BB_15=98.4$, $GAI_EES=73.9$

R1 =85	R2 =92	R3 =97	R4 =85	R5 =85	R6 =89	R7 =87	R8 =69
R9 =21	R10=81	R11=85	R12=66	R13=87	R14=99	R15=79	
Color Quality Scale: $Q_a=85.8$, $Q_f=86.1$, $Q_p=85.1$, $Q_g=93.1$							
Q1 =83	Q2 =98	Q3 =84	Q4 =81	Q5 =85	Q6 =87	Q7 =89	Q8 =91
Q9 =98	Q10=92	Q11=90	Q12=88	Q13=87	Q14=77	Q15=79	



Photometric Parameters

Luminous Flux: 1597.8 lm Efficiency: 77.64 lm/W Radiant Power: 4.920 W
 Total mains efficacy: 77.64 lm/W Energy Efficiency Class: G (EU 2019/2015)
 Auxiliary lamp correction factor: 1.00

Electric Parameters

Voltage: 220.00V Current: 0.1060A Power: 20.58W
 Power Factor: 0.8810 Frequency: 50.00Hz

Test Information

Scan Range: 380~800:1nm	Photometric Method: sphere-spectroradiometer
Stabilization Time: 0 Min ALC.: 1.0000	Photometric Condition: Sphere diameter: 2.00m, 4T
Max of Signal: 45564 (3724)	CCD Integration Time: 372.43 ms

Lightsource Test Report

Product Information

Product Category: CEL414
 Product Spec: 20W-4000K

Product Type: 8070182002
 Product Number: 2

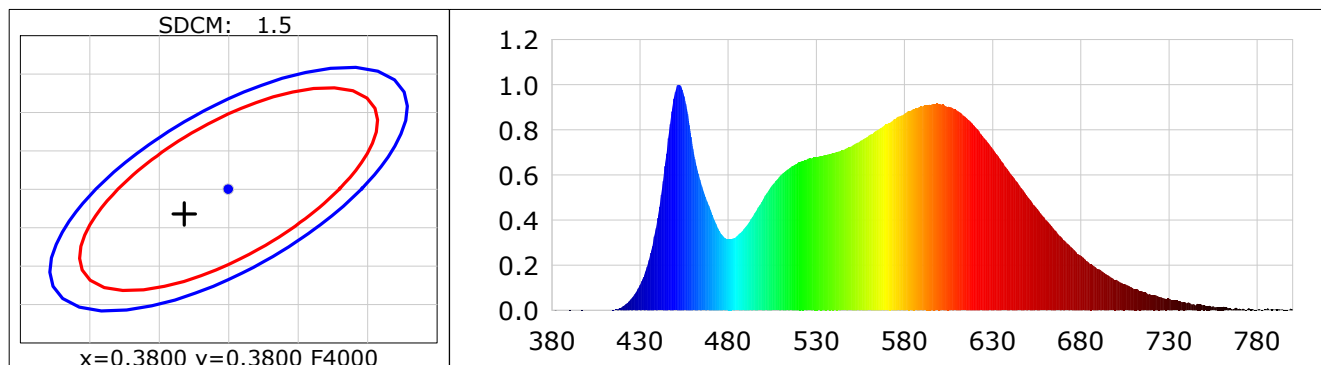
CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3768$ $y=0.3768$ $u(u')=0.2227$ $v=0.3340$ $v'=0.5011$
 CCT: $T_c=4101K$ ($duv=0.00109$) Color Ratio: $R=0.184$ $G=0.776$ $B=0.040$
 Peak Wavelength: 451.9nm Half Bandwidth: 25.5nm
 Dominant Wavelength: 578.1nm Color Purity: 0.262
 Central Wave: 454.5nm Gravity Wave: 453.7nm
 CRI: $R_a=86.3$ TM30: $R_f=86$, $R_g=95$
 GAI: $GAI_BB_8=91.9$, $GAI_BB_15=98.4$, $GAI_EES=73.9$

R1 =85	R2 =92	R3 =97	R4 =85	R5 =85	R6 =89	R7 =87	R8 =69
R9 =21	R10=81	R11=86	R12=66	R13=87	R14=99	R15=79	

Color Quality Scale: $Q_a=85.9$, $Q_f=86.2$, $Q_p=85.2$, $Q_g=93.2$

Q1 =83	Q2 =98	Q3 =84	Q4 =81	Q5 =85	Q6 =87	Q7 =89	Q8 =91
Q9 =98	Q10=92	Q11=90	Q12=88	Q13=87	Q14=77	Q15=79	



Photometric Parameters

Luminous Flux: 1605.8 lm Efficiency: 77.87 lm/W Radiant Power: 4.959 W
 Total mains efficacy: 77.87 lm/W Energy Efficiency Class: G (EU 2019/2015)
 Auxiliary lamp correction factor: 1.00

Electric Parameters

Voltage: 219.60V Current: 0.1070A Power: 20.62W
 Power Factor: 0.8810 Frequency: 49.99Hz

Test Information

Scan Range: 380~800:1nm	Photometric Method: sphere-spectroradiometer
Stabilization Time: 0 Min ALC.: 1.0000	Photometric Condition: Sphere diameter: 2.00m, 4T
Max of Signal: 48077 (3748)	CCD Integration Time: 391.58 ms

Condition: $T_x=28.9^{\circ}C$, $T_i=0.0^{\circ}C$, R.H.:60%
 Test Lab: IDEUS
 Operator:

Test Device: CMS-3000S
 Test Time: 2024-01-09 14:55:00
 Inspector: