

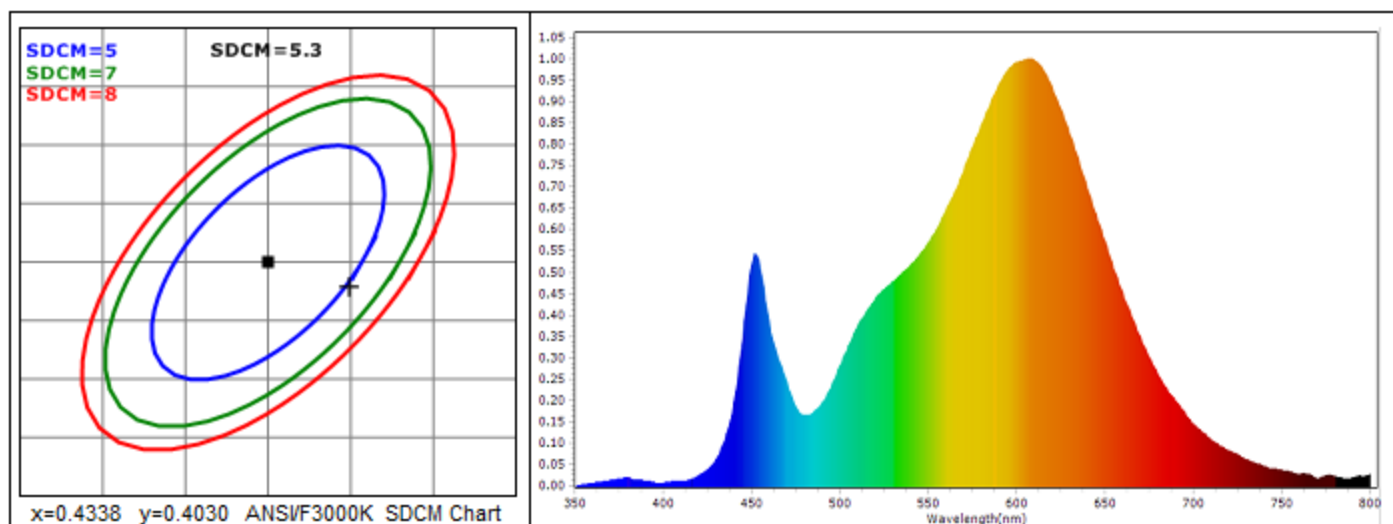
Spectral test report for lamp

Product type : HY-CLR-400A-3000K
 Product No. :
 Manufacturer :

Test time : 2026-05-06 15:06:25
 Test equipment : SPEC-2000A Spectrometer
 Operator :

CIE Color Parameter

Chromaticity coordinates: $x=0.4409$ $y=0.4005$ $u=0.2547$ $v=0.3470$ $u^*=0.2547$ $v^*=0.5205$
 Color temperature: 2909 K ($duv=-0.00193$) Color difference: SDCM(ANSI/F3000)=5.3 Main W: $\lambda_d=476.02$ nm Purity: 0.02
 Peak wavelength: $\lambda_p=606.2$ FWHM: $\Delta\lambda_p=120.2$ nm Color ratio: R=0.252 G=0.726 B=0.022
 Color rendering index: Ra=81.77 Color Fidelity: Rf=82.64 Color Gamut: Rg=96.76 GAI=99.51
 R1=76.8 R2=87.9 R3=98.0 R4=84.4 R5=85.7 R6=92.5 R7=76.9 R8=51.6
 R9=-0.3 R10=75.3 R11=83.4 R12=74.1 R13=79.0 R14=99.2 R15=68.6



Optical Parameter

Luminous flux: 3768.52 lm
 Energy efficiency index(EEI): 0.132

luminous efficiency: 102.82 lm/w
 Energy efficiency class: A+ (EU 874/2012)

Radiant flux: 11.578 W

Electrical Parameter

Voltage(V): 229.40 Current(A): 0.1640 Watte(W): 36.650 Power factor: 0.9690

Test Infomation

Temperature : Deg C
 Test range : 350-800nm : 1nm
 Preheat time : 0(min)

Humidity :
 Peak AD. : 36330 (55.4%)
 Integral time. : 26 (ms)

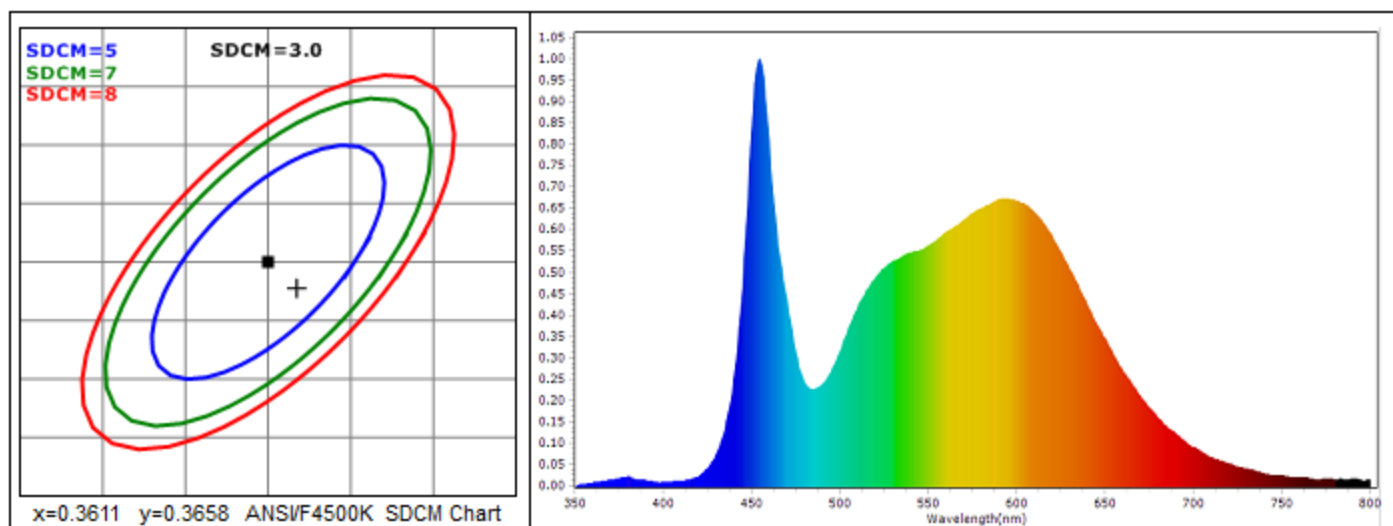
Spectral test report for lamp

Product type : HY-CLR-400A-4000K
 Product No. :
 Manufacturer :

Test time : 2026-05-06 15:06:49
 Test equipment : SPEC-2000A Spectrometer
 Operator :

CIE Color Parameter

Chromaticity coordinates: $x=0.3639$ $y=0.3628$ $u=0.2197$ $v=0.3285$ $u^*=0.2197$ $v^*=0.4928$
 Color temperature: 4399 K ($duv=-0.00146$) Color difference: SDCM(ANSI/F4500)=3.0 Main Wavelength: $\lambda_d=483.02$ nm Purity: 0.21
 Peak wavelength: $\lambda_p=453.6$ nm FWHM: $\Delta\lambda_p=21.5$ nm Color ratio: R=0.189 G=0.772 B=0.039
 Color rendering index: Ra=84.17 Color Fidelity: Rf=83.84 Color Gamut: Rg=95.5 GAI=94.52
 R1=81.8 R2=89.5 R3=94.7 R4=86.2 R5=85.7 R6=86.1 R7=83.9 R8=65.1
 R9=14.9 R10=74.7 R11=84.7 R12=58.2 R13=83.9 R14=97.2 R15=76.3



Optical Parameter

Luminous flux: 4144.26 lm
 Energy efficiency index(EEI): 0.114

luminous efficiency: 119.05 lm/w
 Energy efficiency class: A+ (EU 874/2012)

Radiant flux: 12.995 W

Electrical Parameter

Voltage(V): 229.50 Current(A): 0.1560 Watte(W): 34.810 Power factor: 0.9690

Test Infomation

Temperature : Deg C
 Test range : 350-800nm : 1nm
 Preheat time : 0(min)

Humidity :
 Peak AD. : 36330 (55.4%)
 Integral time. : 26 (ms)

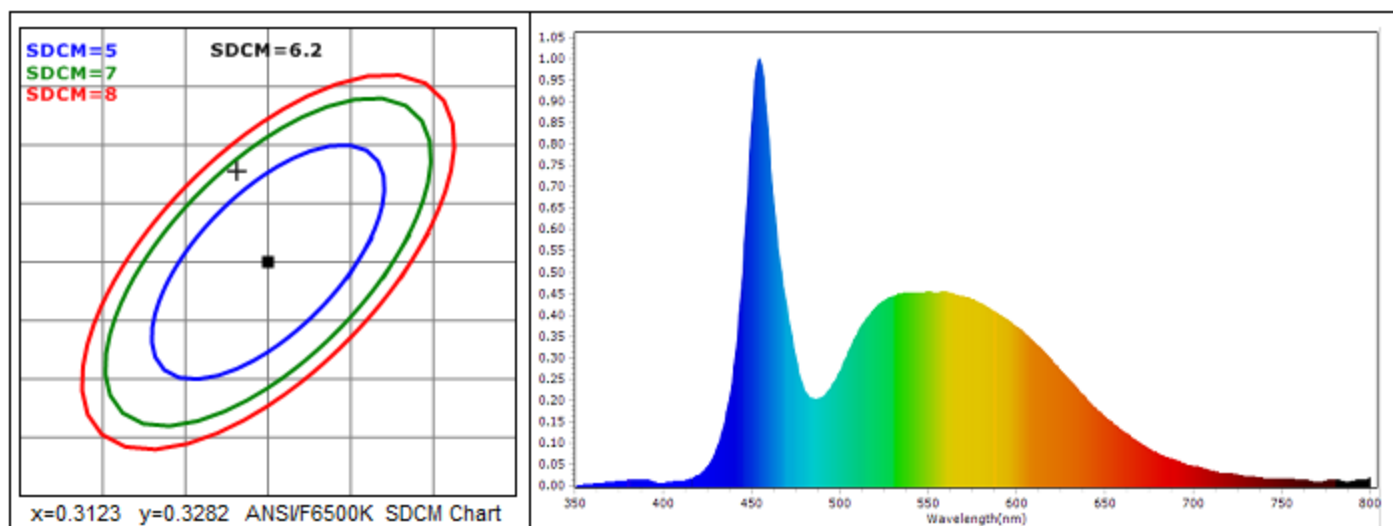
Spectral test report for lamp

Product type : HY-CLR-400A-6000K
 Product No. :
 Manufacturer :

Test time : 2026-05-06 15:07:08
 Test equipment : SPEC-2000A Spectrometer
 Operator :

CIE Color Parameter

Chromaticity coordinates: $x=0.3105$ $y=0.3357$ $u=0.1939$ $v=0.3143$ $u^*=0.1939$ $v^*=0.4715$
 Color temperature: 6574 K (duv=+0.00766) Color difference: SDCM(ANSI/F6500)=6.2 Main Wavelength: $\lambda_d=483.02$ nm Purity: 0.35
 Peak wavelength: $\lambda_p=453.5$ nm FWHM: $\Delta\lambda_p=22.0$ nm Color ratio: R=0.137 G=0.812 B=0.051
 Color rendering index: Ra=79.66 Color Fidelity: Rf=81.24 Color Gamut: Rg=91.91 GAI=86.84
 R1=75.3 R2=84.3 R3=90.7 R4=81.2 R5=79.4 R6=78.7 R7=84.2 R8=63.2
 R9=-7.9 R10=62.6 R11=78.7 R12=49.5 R13=78.1 R14=95.6 R15=69.6



Optical Parameter

Luminous flux: 4029.83 lm
 Energy efficiency index(EEI): 0.122

luminous efficiency: 111.26 lm/w
 Energy efficiency class: A+ (EU 874/2012)

Radiant flux: 12.904 W

Electrical Parameter

Voltage(V): 229.40 Current(A): 0.1620 Watte(W): 36.220 Power factor: 0.9710

Test Infomation

Temperature : Deg C
 Test range : 350-800nm : 1nm
 Preheat time : 0(min)

Humidity :
 Peak AD. : 36330 (55.4%)
 Integral time. : 26 (ms)