

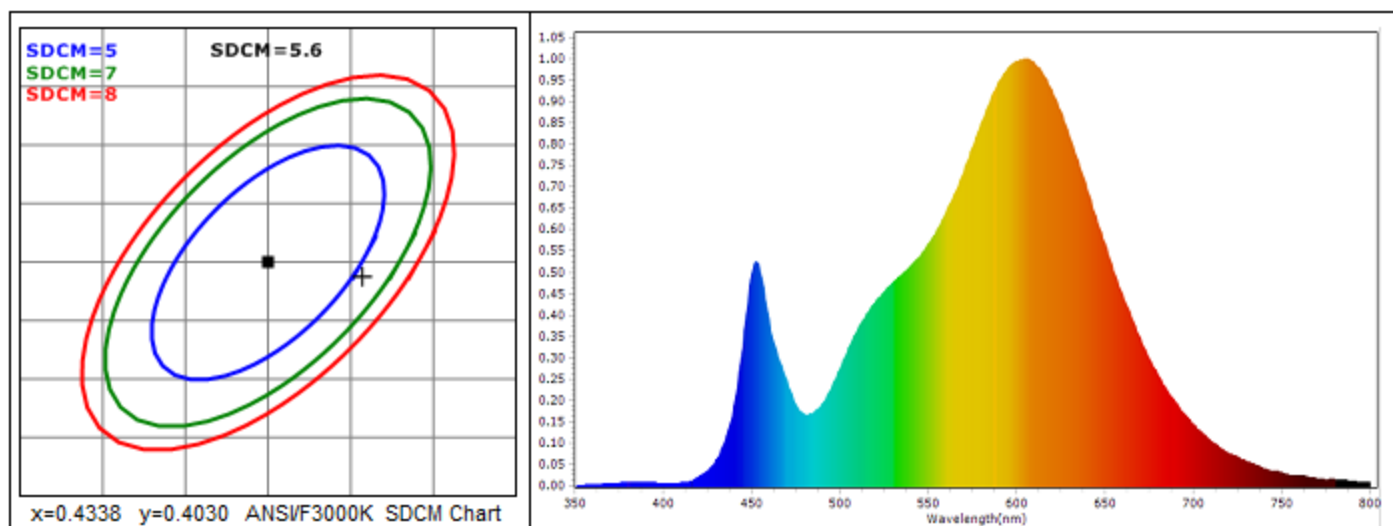
Spectral test report for lamp

Product type : HY-CLR-300A-3000K
 Product No. :
 Manufacturer :

Test time : 2026-05-06 15:05:03
 Test equipment : SPEC-2000A Spectrometer
 Operator :

CIE Color Parameter

Chromaticity coordinates: $x=0.4420$ $y=0.4015$ $u=0.2550$ $v=0.3474$ $u^*=0.2550$ $v^*=0.5211$
 Color temperature: 2899 K ($duv=-0.00169$) Color difference: SDCM(ANSI/F3000)=5.6 Main Wavelength: $\lambda_d=475.02$ nm Purity: 0.01
 Peak wavelength: $\lambda_p=604.4$ FWHM: $\Delta\lambda_p=118.5$ nm Color ratio: R=0.252 G=0.727 B=0.021
 Color rendering index: Ra=81.25 Color Fidelity: Rf=82.39 Color Gamut: Rg=96.33 GAI=98.42
 R1=76.0 R2=87.6 R3=98.1 R4=83.7 R5=85.1 R6=92.3 R7=76.3 R8=50.4
 R9=-2.6 R10=74.7 R11=82.6 R12=73.4 R13=78.3 R14=99.3 R15=67.6



Optical Parameter

Luminous flux: 2927.52 lm luminous efficiency: 103.7 lm/w Radiant flux: 8.928 W
 Energy efficiency index(EEI): 0.131 Energy efficiency class: A+ (EU 874/2012)

Electrical Parameter

Voltage(V): 229.30 Current(A): 0.1280 Watte(W): 28.230 Power factor: 0.9540

Test Infomation

Temperature : Deg C Humidity :
 Test range : 350-800nm : 1nm Peak AD. : 36330 (55.4%)
 Preheat time : 0(min) Integral time. : 26 (ms)

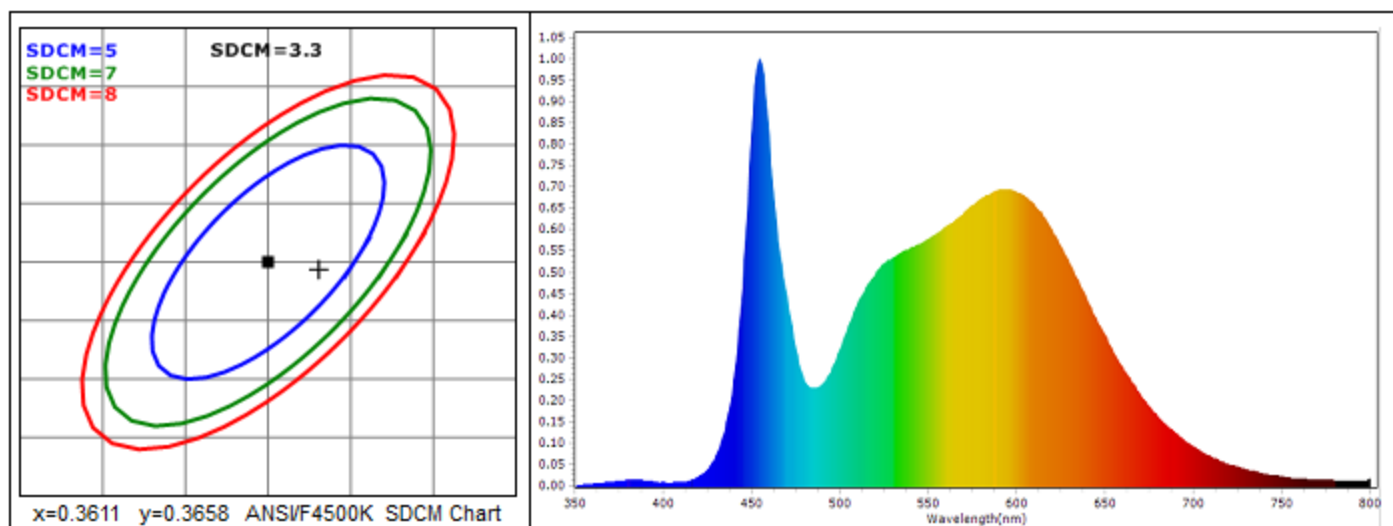
Spectral test report for lamp

Product type : HY-CLR-300A-4000K
 Product No. :
 Manufacturer :

Test time : 2026-05-06 16:26:16
 Test equipment : SPEC-2000A Spectrometer
 Operator :

CIE Color Parameter

Chromaticity coordinates: $x=0.3659$ $y=0.3649$ $u=0.2202$ $v=0.3294$ $u^*=0.2202$ $v^*=0.4941$
 Color temperature: 4348 K ($duv=-0.00109$) Color difference: SDCM(ANSI/F4500)=3.3 Main W: $\lambda_d=483.02$ nm Purity: 0.21
 Peak wavelength: $\lambda_p=453.8$ nm FWHM: $\Delta\lambda_p=22.4$ nm Color ratio: R=0.190 G=0.772 B=0.038
 Color rendering index: Ra=83.75 Color Fidelity: Rf=83.62 Color Gamut: Rg=95.19 GAI=93.89
 R1=81.1 R2=89.2 R3=94.9 R4=85.7 R5=85.2 R6=86.1 R7=83.5 R8=64.0
 R9=12.4 R10=74.2 R11=84.2 R12=57.9 R13=83.3 R14=97.4 R15=75.4



Optical Parameter

Luminous flux: 3250.58 lm
 Energy efficiency index(EEI): 0.114

luminous efficiency: 119.73 lm/w
 Energy efficiency class: A+ (EU 874/2012)

Radiant flux: 10.115 W

Electrical Parameter

Voltage(V): 229.30 Current(A): 0.1240 Watte(W): 27.150 Power factor: 0.9530

Test Infomation

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

Humidity :
 Peak AD. : 49783 (76.0%)
 Integral time. : 62.05 (ms)

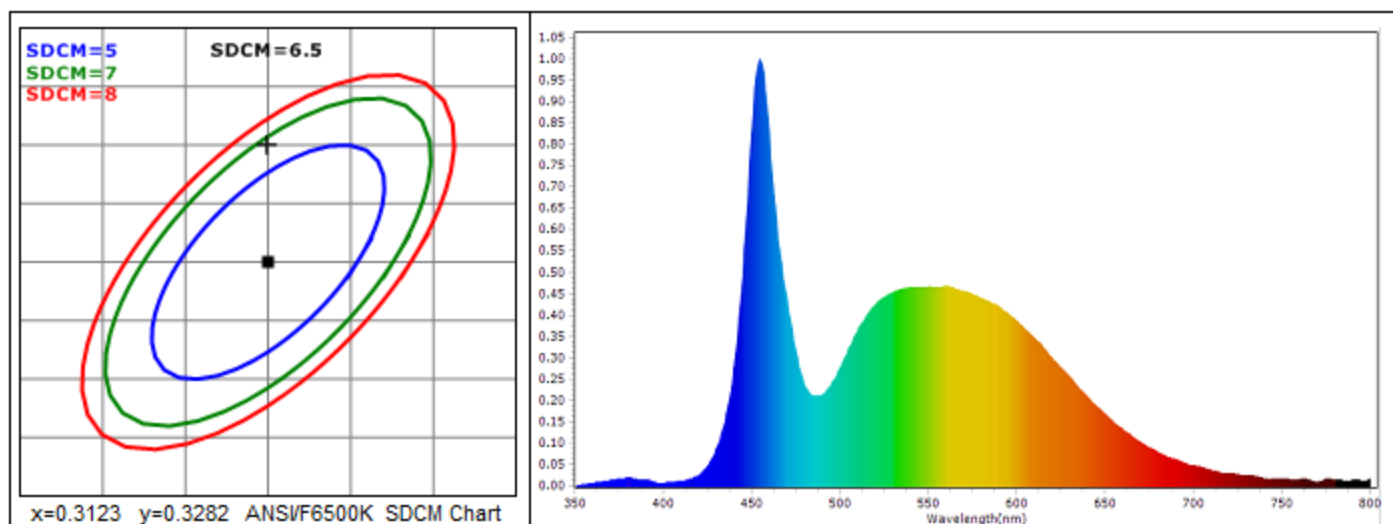
Spectral test report for lamp

Product type : HY-CLR-300A-6000K
 Product No. :
 Manufacturer :

Test time : 2026-05-06 15:05:23
 Test equipment : SPEC-2000A Spectrometer
 Operator :

CIE Color Parameter

Chromaticity coordinates: $x=0.3123$ $y=0.3379$ $u=0.1943$ $v=0.3153$ $u^*=0.1943$ $v^*=0.4730$
 Color temperature: 6470 K ($duv=+0.00789$) Color difference: SDCM(ANSI/F6500)=6.5 Main Wl: $\lambda_d=484.02$ nm Purity: 0.35
 Peak wavelength: $\lambda_p=453.9$ nm FWHM: $\Delta\lambda_p=22.9$ nm Color ratio: R=0.137 G=0.812 B=0.051
 Color rendering index: Ra=79.45 Color Fidelity: Rf=81.11 Color Gamut: Rg=91.57 GAI=86.47
 R1=74.9 R2=84.4 R3=91.2 R4=80.6 R5=79.1 R6=78.9 R7=83.9 R8=62.3
 R9=-9.7 R10=62.9 R11=78.1 R12=49.6 R13=77.8 R14=95.9 R15=69.0



Optical Parameter

Luminous flux: 3152.58 lm
 Energy efficiency index (EEI): 0.122

luminous efficiency: 112.03 lm/w
 Energy efficiency class: A+ (EU 874/2012)

Radiant flux: 10.057 W

Electrical Parameter

Voltage(V): 229.30 Current(A): 0.1280 Watte(W): 28.140 Power factor: 0.9540

Test Infomation

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

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