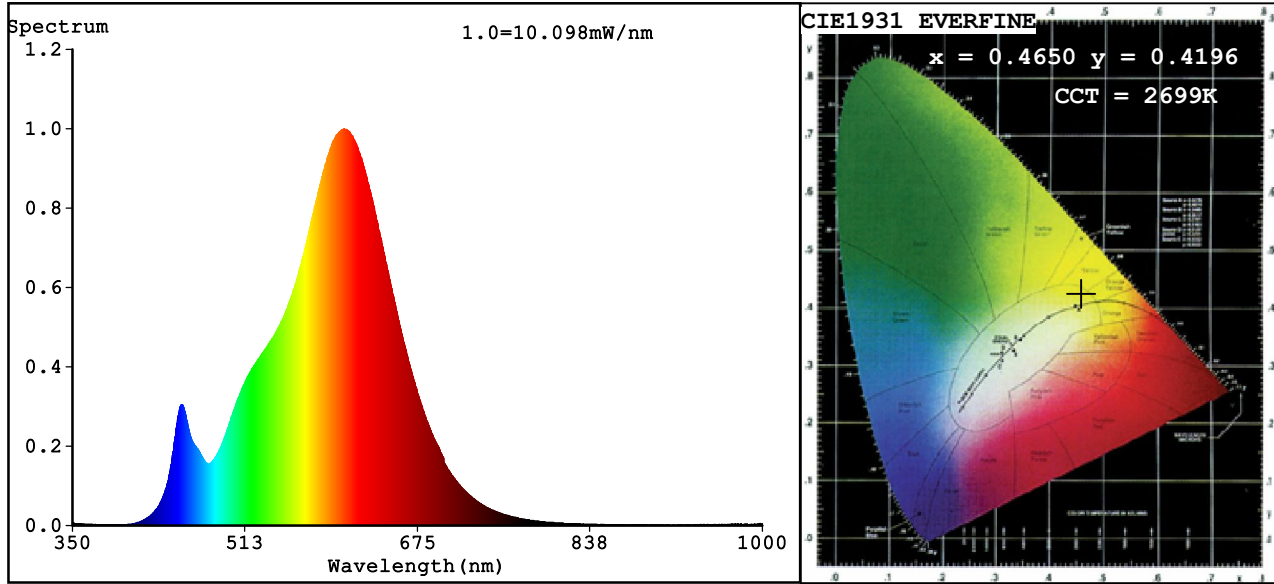


Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4650$ $y=0.4196$ $u'=0.2618$ $v'=0.5315$
 CCT=2699K (Duv=0.0029) Dominant WL:Ld =583.3nm Purity=65.6%
 Ratio:R=24.9% G=72.9% B=2.1%;; Peak WL:Lp=606.1nm FWHM=114.5nm
 Render Index:Ra=82.0
 R1 =80 R2 =91 R3 =96 R4 =80 R5 =80 R6 =91 R7 =82
 R8 =56 R9 =4 R10=81 R11=80 R12=74 R13=83 R14=98 R15=71

Photo Parameters:

Flux = 459.3 lm Eff. : 115.16 lm/W Fe = 1.405 W

Electrical parameters:

V = 230.03 V I = 0.03429 A P = 3.989 W PF = 0.5057

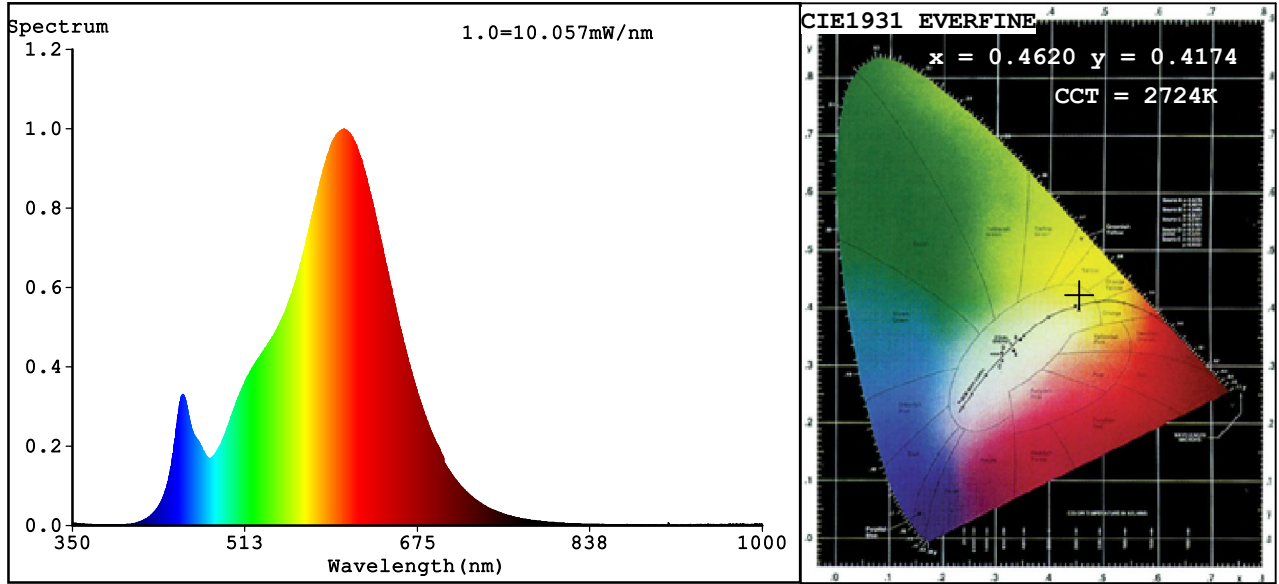
WHITE:ANSI_2700K

Status: Integral T = 99 ms Ip = 50371 (77%)

Model:LED GLOBE G45 FILAMENT/4W
 Tester:Petya Marinova
 Temperature:25.3Deg
 Manufacturer:ELMARK

Number:99LED664
 Date:2018-03-27 16:30
 Humidity:65.0%
 Remarks:017A045_4393

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4620$ $y=0.4174/u'=0.2608$ $v'=0.5302$

CCT=2724K(Duv=0.0023) Dominant WL:Ld =583.4nm Purity=64.0%

Ratio:R=24.7% G=73.0% B=2.2%;;Peak WL:Lp=605.8nm FWHM=114.8nm

Render Index:Ra=82.0

R1 =80 R2 =92 R3 =95 R4 =79 R5 =80 R6 =91 R7 =82

R8 =56 R9 =4 R10=81 R11=79 R12=74 R13=83 R14=98 R15=72

Photo Parameters:

Flux = 459.7 lm Eff. : 114.50 lm/W Fe = 1.410 W

Electrical parameters:

V = 229.93 V I = 0.03436 A P = 4.015 W PF = 0.5081

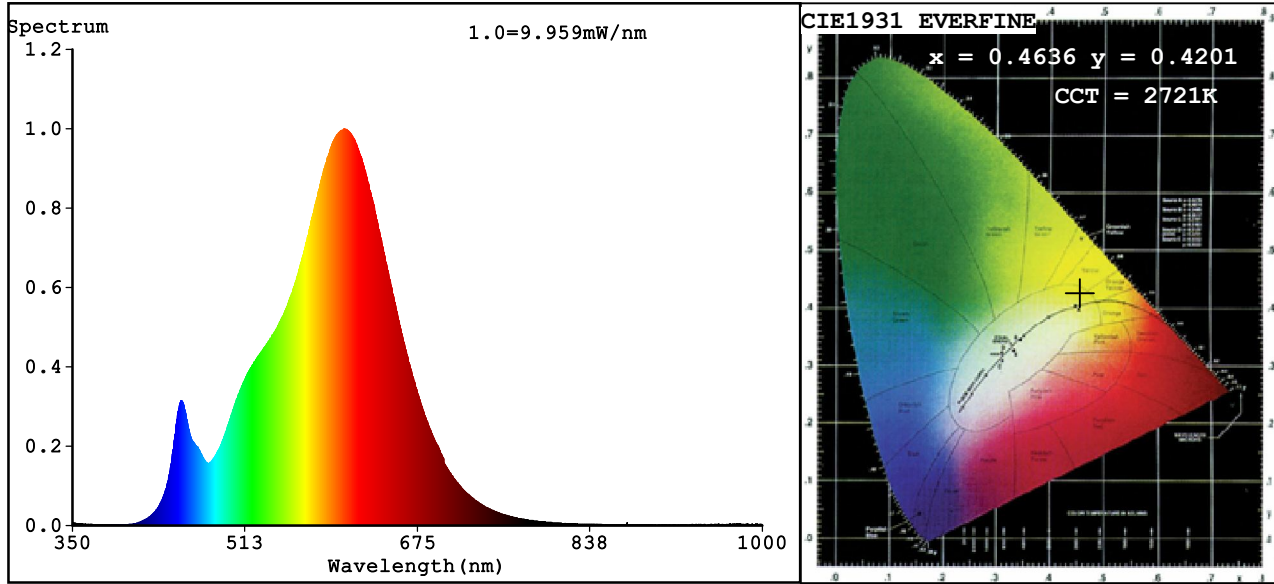
WHITE:ANSI_2700K

Status: Integral T = 79 ms Ip = 40003 (61%)

Model:LED GLOBE G45 FILAMENT/4W
Tester:Petya Marinova
Temperature:25.3Deg
Manufacturer:ELMARK

Number:99LED664
Date:2018-03-27 16:56
Humidity:65.0%
Remarks:017A045_4393

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4636$ $y=0.4201/u'=0.2607$ $v'=0.5315$

CCT=2721K(Duv=0.0031) Dominant WL:Ld =583.1nm Purity=65.2%

Ratio:R=24.8% G=73.0% B=2.2%;;Peak WL:Lp=605.8nm FWHM=115.7nm

Render Index:Ra=82.4

R1 =81	R2 =91	R3 =96	R4 =80	R5 =81	R6 =91	R7 =82	
R8 =57	R9 =5	R10=81	R11=80	R12=74	R13=83	R14=98	R15=72

Photo Parameters:

Flux = 455.7 lm Eff. : 116.48 lm/W Fe = 1.392 W

Electrical parameters:

V = 229.81 V I = 0.03343 A P = 3.913 W PF = 0.5092

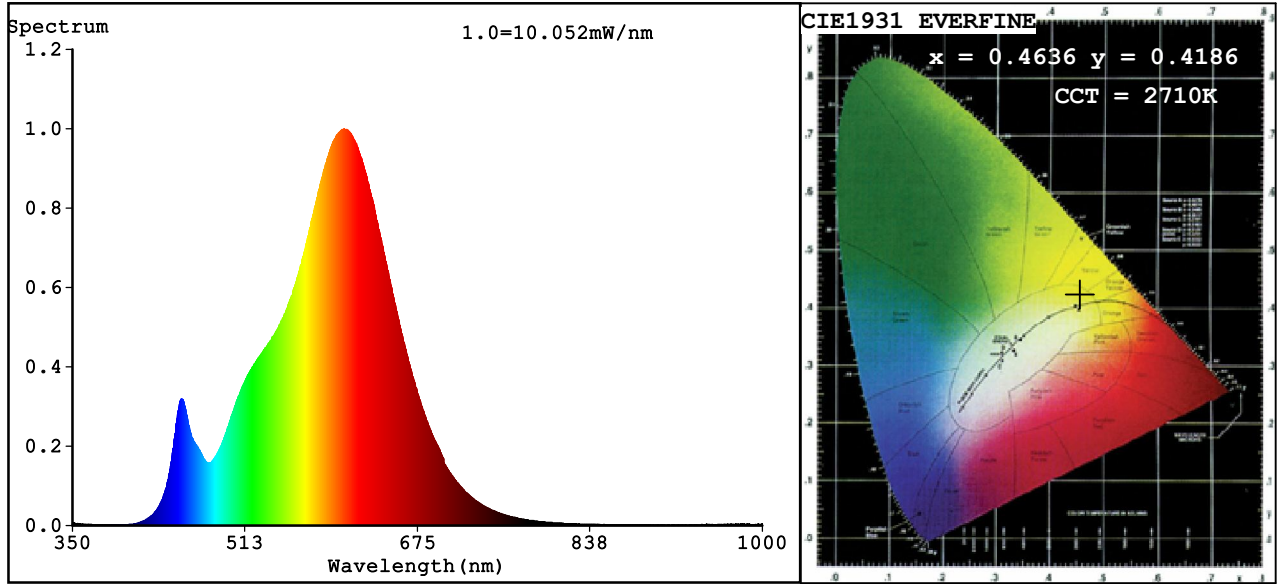
WHITE:ANSI_2700K

Status: Integral T = 79 ms Ip = 39613 (60%)

Model:LED GLOBE G45 FILAMENT/4W
Tester:Petya Marinova
Temperature:25.3Deg
Manufacturer:ELMARK

Number:99LED664
Date:2018-03-28 13:14
Humidity:65.0%
Remarks:017A045_4393

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4636$ $y=0.4186$ / $u'=0.2613$ $v'=0.5309$
 CCT=2710K (Duv=0.0026) Dominant WL:Ld =583.3nm Purity=64.8%
 Ratio:R=24.9% G=72.9% B=2.2%; Peak WL:Lp=605.8nm FWHM=114.7nm
 Render Index:Ra=82.3
 R1 =81 R2 =91 R3 =96 R4 =80 R5 =81 R6 =91 R7 =82
 R8 =57 R9 =5 R10=81 R11=80 R12=74 R13=83 R14=98 R15=72

Photo Parameters:

Flux = 458.0 lm Eff. : 117.04 lm/W Fe = 1.403 W

Electrical parameters:

V = 229.82 V I = 0.03388 A P = 3.913 W PF = 0.5026

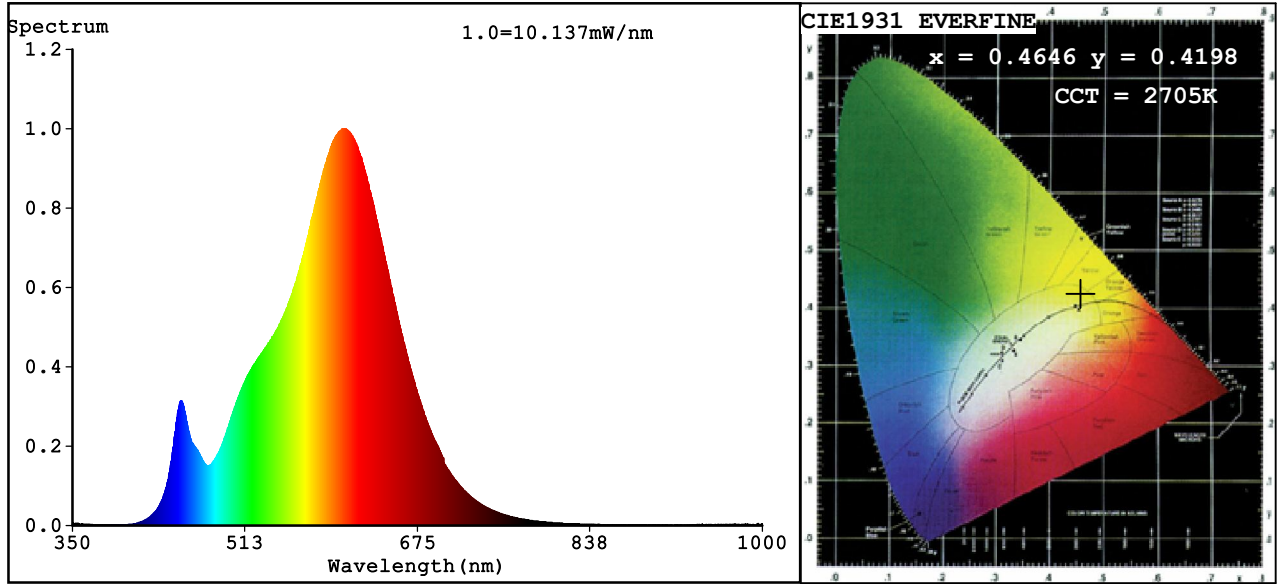
WHITE:ANSI_2700K

Status: Integral T = 79 ms Ip = 40017 (61%)

Model:LED GLOBE G45 FILAMENT/4W
 Tester:Petya Marinova
 Temperature:25.3Deg
 Manufacturer:ELMARK

Number:99LED664
 Date:2018-03-28 13:16
 Humidity:65.0%
 Remarks:017A045_4393

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4646$ $y=0.4198$ $u'=0.2615$ $v'=0.5315$
 CCT=2705K(Duv=0.0029) Dominant WL:Ld =583.3nm Purity=65.5%
 Ratio:R=24.9% G=73.0% B=2.1%;;Peak WL:Lp=604.1nm FWHM=115.0nm
 Render Index:Ra=82.1
 R1 =80 R2 =91 R3 =96 R4 =80 R5 =80 R6 =90 R7 =82
 R8 =56 R9 =4 R10=80 R11=80 R12=73 R13=83 R14=98 R15=71

Photo Parameters:

Flux = 462.6 lm Eff. : 115.47 lm/W Fe = 1.413 W

Electrical parameters:

V = 229.80 V I = 0.03432 A P = 4.006 W PF = 0.5080

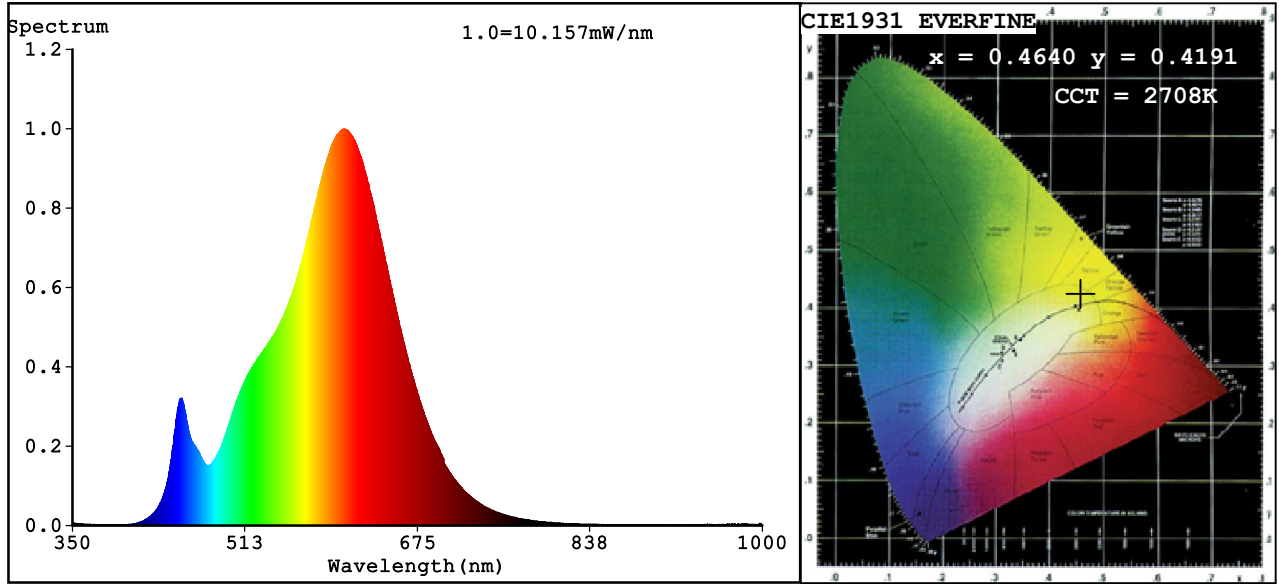
WHITE:ANSI_2700K

Status: Integral T = 79 ms Ip = 40415 (62%)

Model:LED GLOBE G45 FILAMENT/4W
 Tester:Petya Marinova
 Temperature:25.3Deg
 Manufacturer:ELMARK

Number:99LED664
 Date:2018-03-28 13:17
 Humidity:65.0%
 Remarks:017A045_4393

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4640$ $y=0.4191$ / $u'=0.2614$ $v'=0.5311$
 CCT=2708K (Duv=0.0027) Dominant WL:Ld =583.3nm Purity=65.1%
 Ratio:R=24.9% G=73.0% B=2.1%; Peak WL:Lp=605.8nm FWHM=114.8nm
 Render Index:Ra=82.2
 R1 =80 R2 =91 R3 =96 R4 =80 R5 =81 R6 =91 R7 =82
 R8 =57 R9 =4 R10=80 R11=80 R12=74 R13=83 R14=98 R15=72

Photo Parameters:

Flux = 462.7 lm Eff. : 116.46 lm/W Fe = 1.415 W

Electrical parameters:

V = 229.83 V I = 0.03419 A P = 3.973 W PF = 0.5056

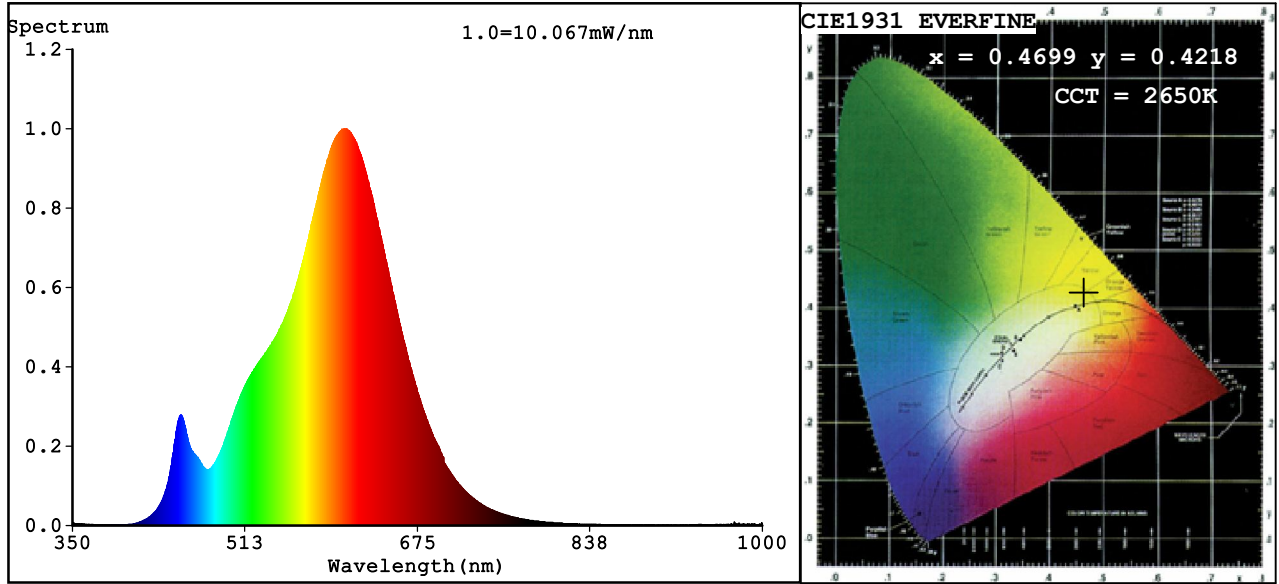
WHITE:ANSI_2700K

Status: Integral T = 79 ms Ip = 40406 (62%)

Model:LED GLOBE G45 FILAMENT/4W
 Tester:Petya Marinova
 Temperature:25.3Deg
 Manufacturer:ELMARK

Number:99LED664
 Date:2018-03-28 13:19
 Humidity:65.0%
 Remarks:017A045_4393

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4699$ $y=0.4218$ $u'=0.2639$ $v'=0.5330$
 CCT=2650K(Duv=0.0033) Dominant WL:Ld =583.5nm Purity=67.7%
 Ratio:R=25.3% G=72.7% B=2.0%;;Peak WL:Lp=605.8nm FWHM=113.2nm
 Render Index:Ra=81.9
 R1 =80 R2 =91 R3 =96 R4 =80 R5 =80 R6 =90 R7 =82
 R8 =56 R9 =3 R10=80 R11=80 R12=74 R13=82 R14=98 R15=71

Photo Parameters:

Flux = 452.6 lm Eff. : 116.40 lm/W Fe = 1.386 W

Electrical parameters:

V = 229.84 V I = 0.03338 A P = 3.888 W PF = 0.5069

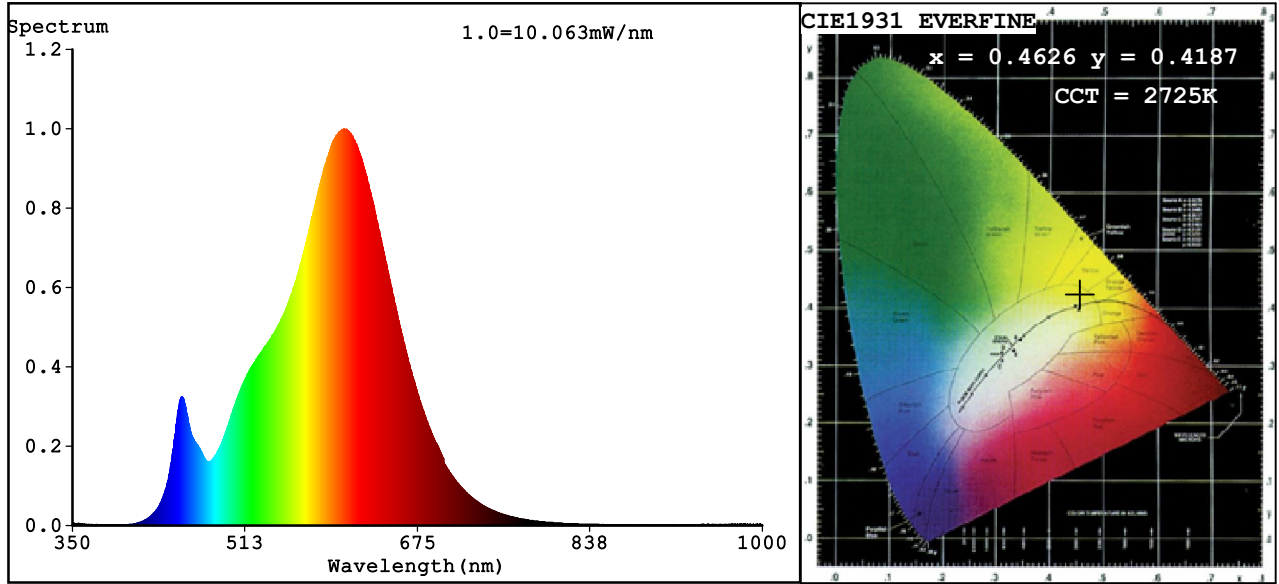
WHITE:ANSI_2700K

Status: Integral T = 79 ms Ip = 40077 (61%)

Model:LED GLOBE G45 FILAMENT/4W
 Tester:Petya Marinova
 Temperature:25.3Deg
 Manufacturer:ELMARK

Number:99LED664
 Date:2018-03-28 13:21
 Humidity:65.0%
 Remarks:017A045_4393

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4626$ $y=0.4187$ / $u'=0.2606$ $v'=0.5308$
 CCT=2725K (Duv=0.0027) Dominant WL:Ld =583.2nm Purity=64.5%
 Ratio:R=24.8% G=73.0% B=2.2%;; Peak WL:Lp=605.8nm FWHM=115.8nm
 Render Index:Ra=82.4
 R1 =81 R2 =91 R3 =96 R4 =80 R5 =81 R6 =91 R7 =82
 R8 =57 R9 =5 R10=81 R11=80 R12=74 R13=83 R14=98 R15=72

Photo Parameters:

Flux = 460.8 lm Eff. : 115.72 lm/W Fe = 1.410 W

Electrical parameters:

V = 229.90 V I = 0.03423 A P = 3.982 W PF = 0.5060

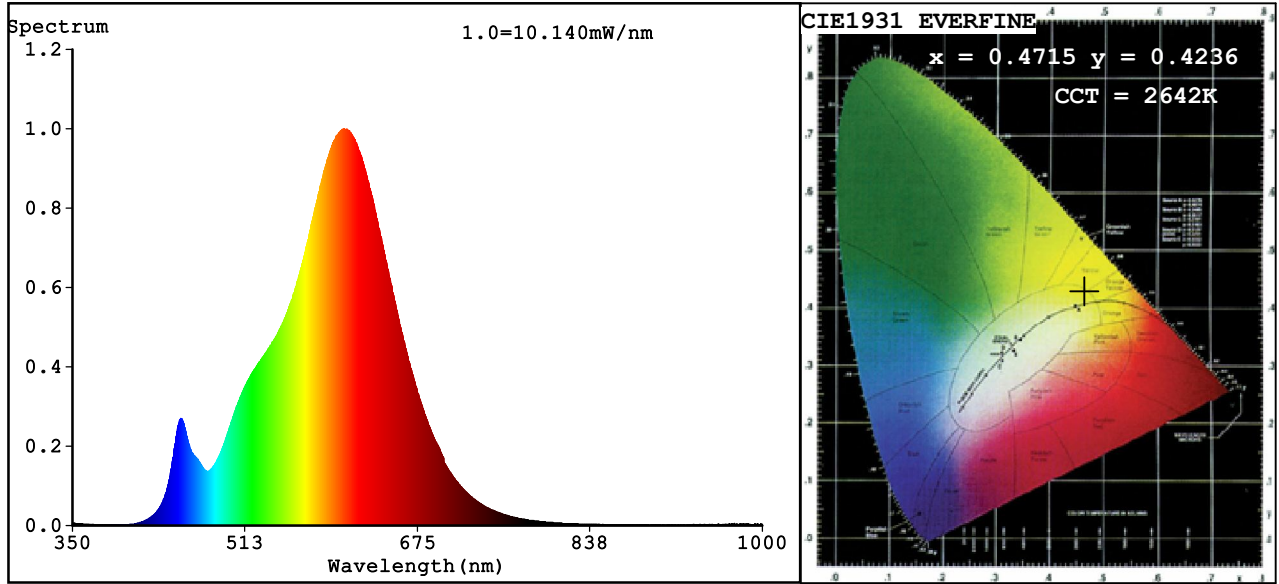
WHITE:ANSI_2700K

Status: Integral T = 79 ms Ip = 40056 (61%)

Model:LED GLOBE G45 FILAMENT/4W
 Tester:Petya Marinova
 Temperature:25.3Deg
 Manufacturer:ELMARK

Number:99LED664
 Date:2018-03-28 13:22
 Humidity:65.0%
 Remarks:017A045_4393

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4715$ $y=0.4236$ / $u'=0.2641$ $v'=0.5339$
 CCT=2642K (Duv=0.0038) Dominant WL:Ld =583.4nm Purity=68.7%
 Ratio:R=25.3% G=72.7% B=2.0%; Peak WL:Lp=606.1nm FWHM=112.9nm
 Render Index:Ra=81.7
 R1 =80 R2 =90 R3 =96 R4 =80 R5 =80 R6 =90 R7 =82
 R8 =56 R9 =2 R10=79 R11=79 R12=73 R13=82 R14=98 R15=70

Photo Parameters:

Flux = 455.5 lm Eff. : 116.28 lm/W Fe = 1.389 W

Electrical parameters:

V = 229.91 V I = 0.03381 A P = 3.917 W PF = 0.5039

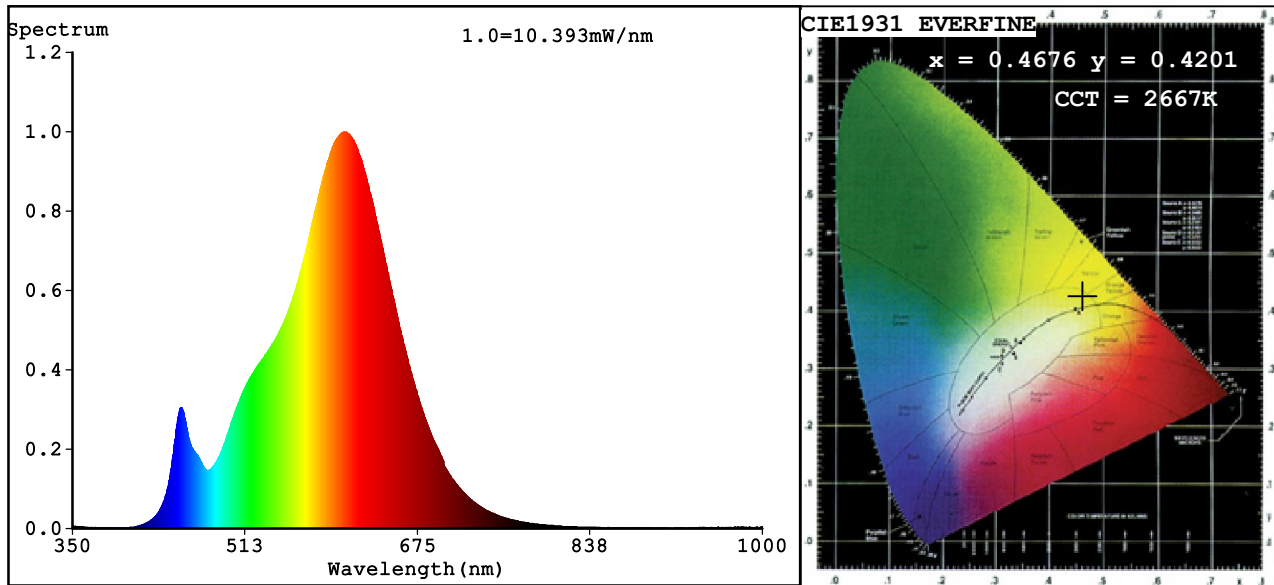
WHITE:ANSI_2700K

Status: Integral T = 79 ms Ip = 40392 (62%)

Model:LED GLOBE G45 FILAMENT/4W
 Tester:Petya Marinova
 Temperature:25.3Deg
 Manufacturer:ELMARK

Number:99LED664
 Date:2018-03-28 13:24
 Humidity:65.0%
 Remarks:017A045_4393

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4676$ $y=0.4201/u'=0.2632$ $v'=0.5321$
 CCT=2667K(Duv=0.0028) Dominant WL:Ld =583.5nm Purity=66.5%
 Ratio:R=25.2% G=72.7% B=2.1%;;Peak WL:Lp=605.8nm FWHM=113.3nm
 Render Index:Ra=82.0
 R1 =80 R2 =91 R3 =96 R4 =80 R5 =80 R6 =91 R7 =82
 R8 =56 R9 =4 R10=81 R11=80 R12=74 R13=83 R14=98 R15=71

Photo Parameters:

Flux = 468.8 lm Eff. : 116.62 lm/W Fe = 1.436 W

Electrical parameters:

V = 229.90 V I = 0.03451 A P = 4.020 W PF = 0.5067

WHITE:ANSI_2700K

Status: Integral T = 79 ms Ip = 41368 (63%)

Model:LED GLOBE G45 FILAMENT/4W
 Tester:Petya Marinova
 Temperature:25.3Deg
 Manufacturer:ELMARK

Number:99LED664
 Date:2018-03-28 13:25
 Humidity:65.0%
 Remarks:017A045_4393