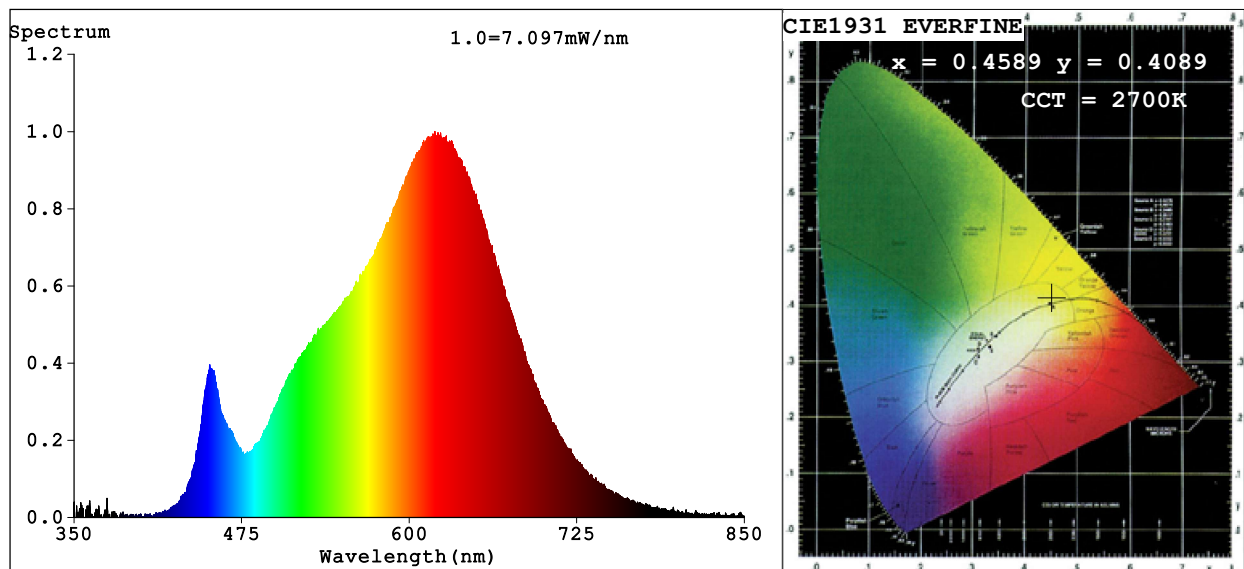


## Spectrum Test Report



### Color Parameters:

Chromaticity Coordinate:  $x=0.4589$   $y=0.4089$   $u'=0.2627$   $v'=0.5265$   
 CCT=2700K (Duv=-0.0006) Dominant WL:Ld =584.4nm Purity=60.5%  
 Ratio:R=26.5% G=71.2% B=2.3%; Peak WL:Lp=619.1nm FWHM=140.0nm  
 Render Index:Ra=92.1 CRI=89.3 TM30:Rf=90 Rg=100  
 R1 =92 R2 =96 R3 =98 R4 =92 R5 =92 R6 =96 R7 =90  
 R8 =79 R9 =54 R10=90 R11=94 R12=84 R13=93 R14=98 R15=87

### Photo Parameters:

Flux = 319.9 lm Eff. : 27.46 lm/W Fe = 1.118 W

### Electrical parameters:

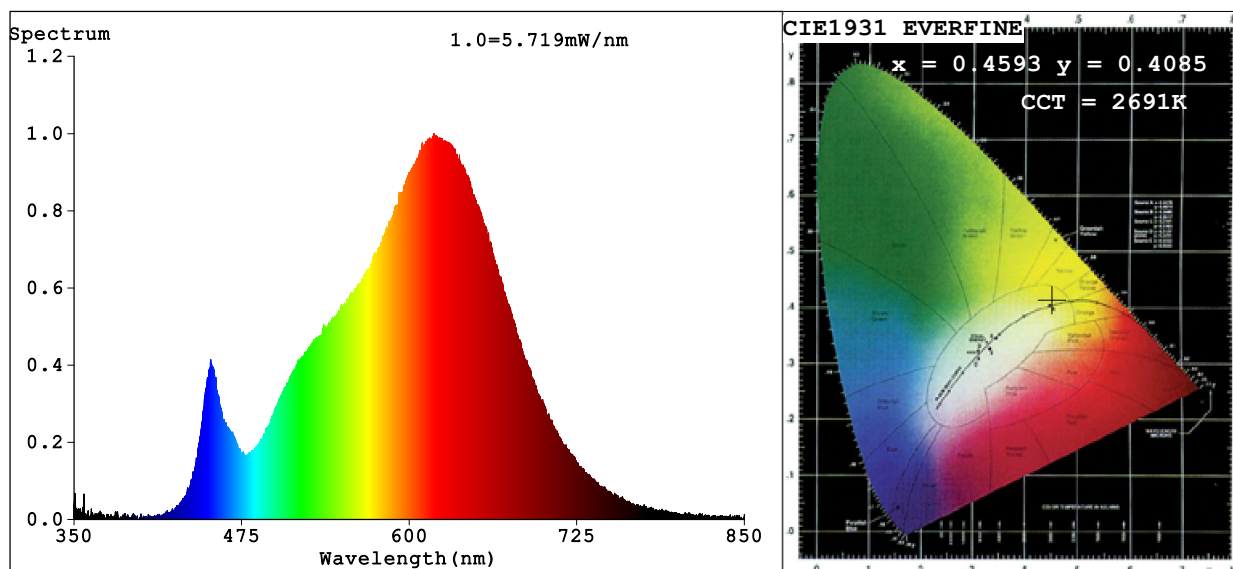
V = 230.08 V I = 0.05323 A P = 11.65 W PF = 0.9511

Status: Integral T = 500 ms Ip = 6206 (9%)

Model:Focalis ZIA 11W  
 Tester:Sergio Carneros  
 Temperature:20Deg  
 Manufacturer:Luz Negra

Number:2700k 20°  
 Date:2026-02-17 10:08:59  
 Humidity:50%  
 Remarks:1 unidad

## Spectrum Test Report



### Color Parameters:

Chromaticity Coordinate:  $x=0.4593$   $y=0.4085$   $u'=0.2631$   $v'=0.5265$   
 CCT=2691K (Duv=-0.0007) Dominant WL:Ld =584.5nm Purity=60.5%  
 Ratio:R=26.6% G=71.1% B=2.4%; Peak WL:Lp=618.4nm FWHM=140.6nm  
 Render Index:Ra=92.3 CRI=89.6 TM30:Rf=90 Rg=100  
 R1 =93 R2 =97 R3 =99 R4 =93 R5 =93 R6 =96 R7 =90  
 R8 =79 R9 =55 R10=91 R11=94 R12=84 R13=94 R14=99 R15=88

### Photo Parameters:

Flux = 256.2 lm Eff. : 29.09 lm/W Fe = 897.5 mW

### Electrical parameters:

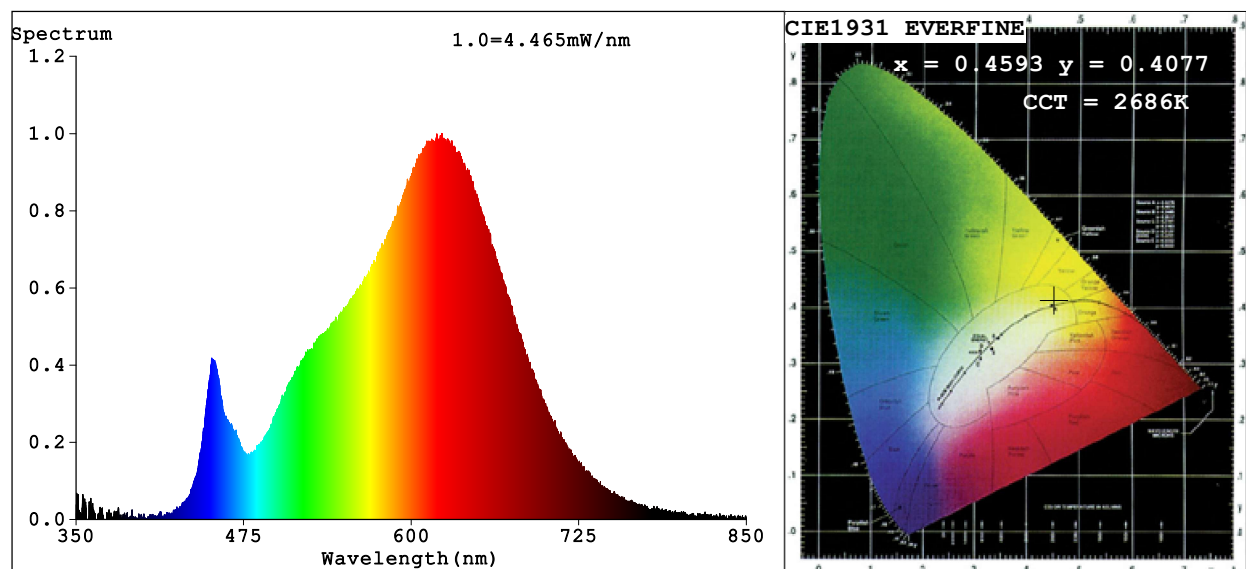
V = 230.09 V I = 0.04115 A P = 8.807 W PF = 0.9303

Status: Integral T = 500 ms Ip = 5019 (8%)

Model:Focalis ZIA 9W  
 Tester:Sergio Carneros  
 Temperature:20Deg  
 Manufacturer:Luz Negra

Number:2700k 20°  
 Date:2026-02-17 10:09:25  
 Humidity:50%  
 Remarks:1 unidad

## Spectrum Test Report



### Color Parameters:

Chromaticity Coordinate:  $x=0.4593$   $y=0.4077$   $u'=0.2634$   $v'=0.5262$   
 CCT=2686K (Duv=-0.0010) Dominant WL:Ld =584.6nm Purity=60.3%  
 Ratio:R=26.7% G=70.9% B=2.4%; Peak WL:Lp=623.0nm FWHM=138.5nm  
 Render Index:Ra=92.5 CRI=89.9 TM30:Rf=90 Rg=100  
 R1 =93 R2 =97 R3 =99 R4 =93 R5 =93 R6 =96 R7 =90  
 R8 =79 R9 =56 R10=92 R11=94 R12=84 R13=94 R14=99 R15=88

### Photo Parameters:

Flux = 198.8 lm Eff. : 29.91 lm/W Fe = 698.8 mW

### Electrical parameters:

V = 230.10 V I = 0.03276 A P = 6.647 W PF = 0.8818

Status: Integral T = 500 ms Ip = 3914 (6%)

Model:Focalis ZIA 7W  
 Tester:Sergio Carneros  
 Temperature:20Deg  
 Manufacturer:Luz Negra

Number:2700k 20°  
 Date:2026-02-17 10:09:49  
 Humidity:50%  
 Remarks:1 unidad