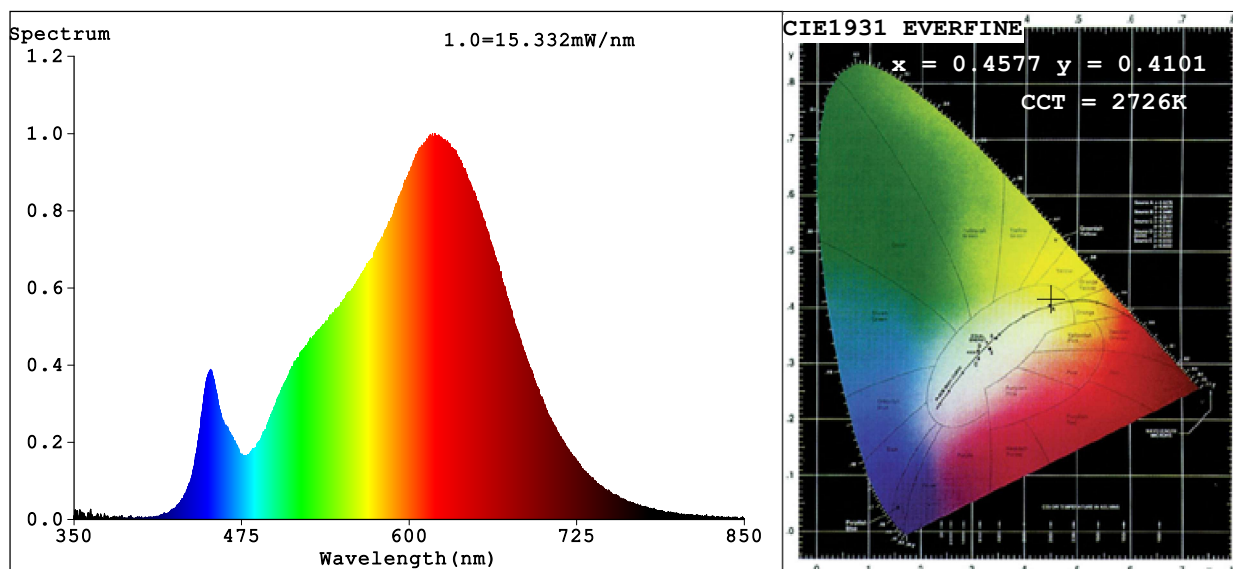


Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4577$ $y=0.4101$ $u'=0.2613$ $v'=0.5269$

CCT=2726K (Duv=0.0000) Dominant WL:Ld =584.1nm Purity=60.5%

Ratio:R=26.3% G=71.4% B=2.4%; Peak WL:Lp=619.1nm FWHM=144.8nm

Render Index:Ra=92.4 CRI=89.6 TM30:Rf=91 Rg=100

R1 =93 R2 =96 R3 =98 R4 =93 R5 =92 R6 =96 R7 =91

R8 =80 R9 =56 R10=90 R11=94 R12=83 R13=94 R14=98 R15=88

Photo Parameters:

Flux = 699.7 lm Eff. : 62.97 lm/W Fe = 2.443 W

Electrical parameters:

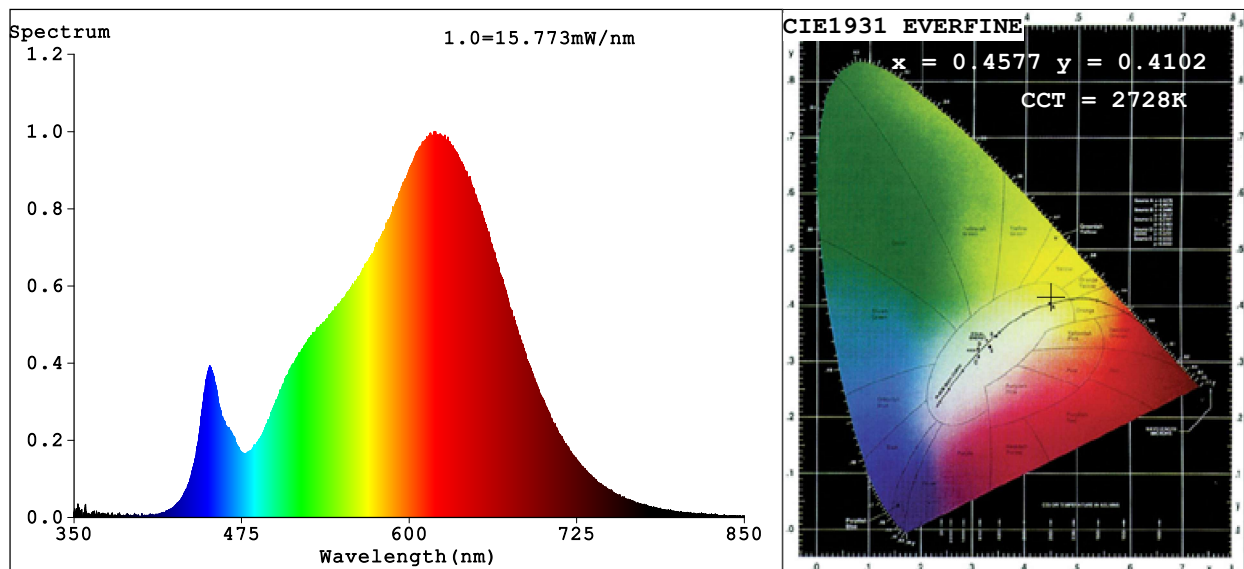
V = 230.12 V I = 0.05094 A P = 11.11 W PF = 0.9479

Status: Integral T = 500 ms Ip = 13431 (20%)

Model:Focalis Vex 7-9-11w
Tester:Sergio Carneros
Temperature:20Deg
Manufacturer:Luz Negra

Number:18° 11w 2700K
Date:2026-02-13 09:33:39
Humidity:50%
Remarks:1 unidad

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4577$ $y=0.4102$ $u'=0.2613$ $v'=0.5269$
 CCT=2728K (Duv=0.0000) Dominant WL:Ld =584.1nm Purity=60.5%
 Ratio:R=26.2% G=71.4% B=2.3%; Peak WL:Lp=619.4nm FWHM=145.8nm
 Render Index:Ra=92.2 CRI=89.3 TM30:Rf=90 Rg=100
 R1 =92 R2 =96 R3 =98 R4 =93 R5 =92 R6 =96 R7 =91
 R8 =79 R9 =55 R10=90 R11=94 R12=83 R13=93 R14=98 R15=88

Photo Parameters:

Flux = 721.1 lm Eff. : 65.17 lm/W Fe = 2.513 W

Electrical parameters:

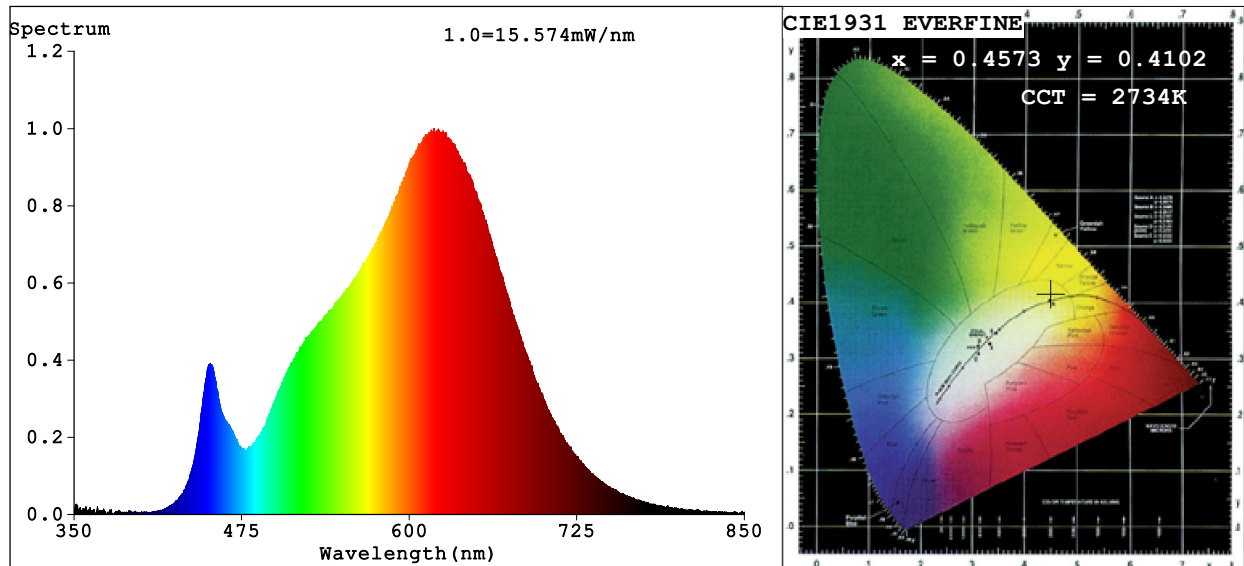
V = 230.10 V I = 0.05074 A P = 11.06 W PF = 0.9476

Status: Integral T = 500 ms Ip = 13800 (21%)

Model:Focalis Vex 7-9-11w
 Tester:Sergio Carneros
 Temperature:20Deg
 Manufacturer:Luz Negra

Number:24° 11w 2700K
 Date:2026-02-13 09:34:23
 Humidity:50%
 Remarks:1 unidad

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4573$ $y=0.4102$ $u'=0.2610$ $v'=0.5268$
CCT=2734K (Duv=0.0001) Dominant WL:Ld =584.0nm Purity=60.4%
Ratio:R=26.2% G=71.5% B=2.4%; Peak WL:Lp=618.7nm FWHM=146.5nm
Render Index:Ra=92.2 CRI=89.2 TM30:Rf=90 Rg=100
R1 =92 R2 =96 R3 =98 R4 =93 R5 =92 R6 =96 R7 =91
R8 =79 R9 =55 R10=90 R11=94 R12=83 R13=93 R14=98 R15=87

Photo Parameters:

Flux = 713.7 lm Eff. : 64.46 lm/W Fe = 2.485 W

Electrical parameters:

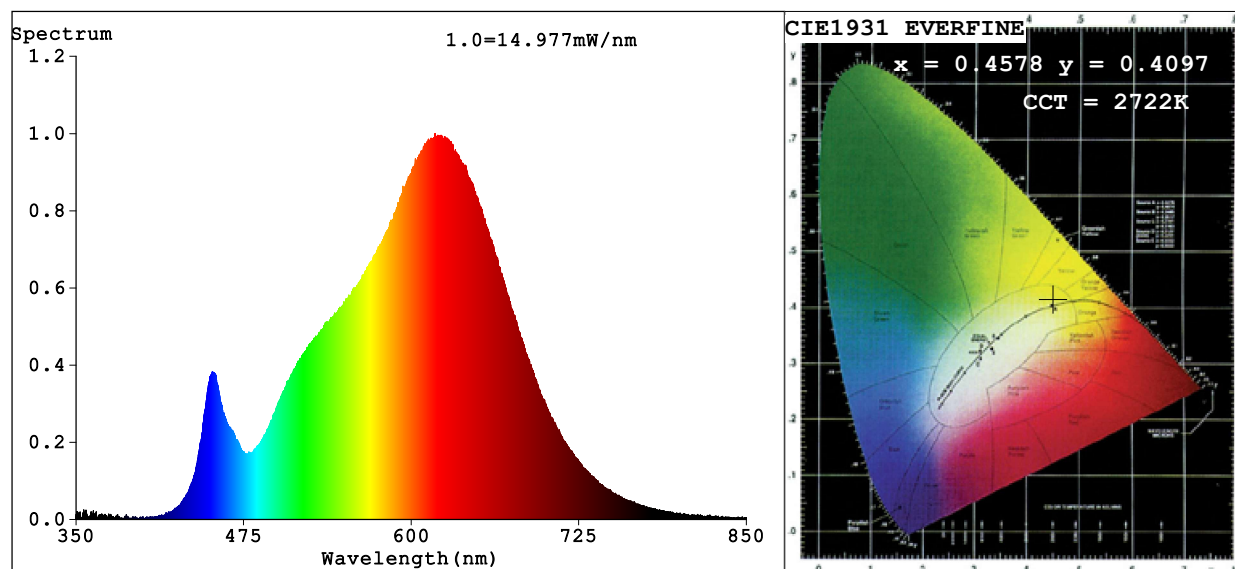
V = 230.12 V I = 0.05077 A P = 11.07 W PF = 0.9476

Status: Integral T = 500 ms Ip = 13650 (21%)

Model:Focalis Vex 7-9-11w
Tester:Sergio Carneros
Temperature:20Deg
Manufacturer:Luz Negra

Number:36° 11w 2700K
Date:2026-02-13 09:34:53
Humidity:50%
Remarks:1 unidad

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4578$ $y=0.4097$ $u'=0.2616$ $v'=0.5267$
 CCT=2722K (Duv=-0.0002) Dominant WL:Ld =584.1nm Purity=60.4%
 Ratio:R=26.2% G=71.4% B=2.4%; Peak WL:Lp=617.8nm FWHM=144.8nm
 Render Index:Ra=92.2 CRI=89.3 TM30:Rf=90 Rg=100
 R1 =92 R2 =96 R3 =98 R4 =93 R5 =92 R6 =96 R7 =91
 R8 =79 R9 =55 R10=90 R11=94 R12=83 R13=93 R14=98 R15=88

Photo Parameters:

Flux = 682.4 lm Eff. : 62.14 lm/W Fe = 2.379 W

Electrical parameters:

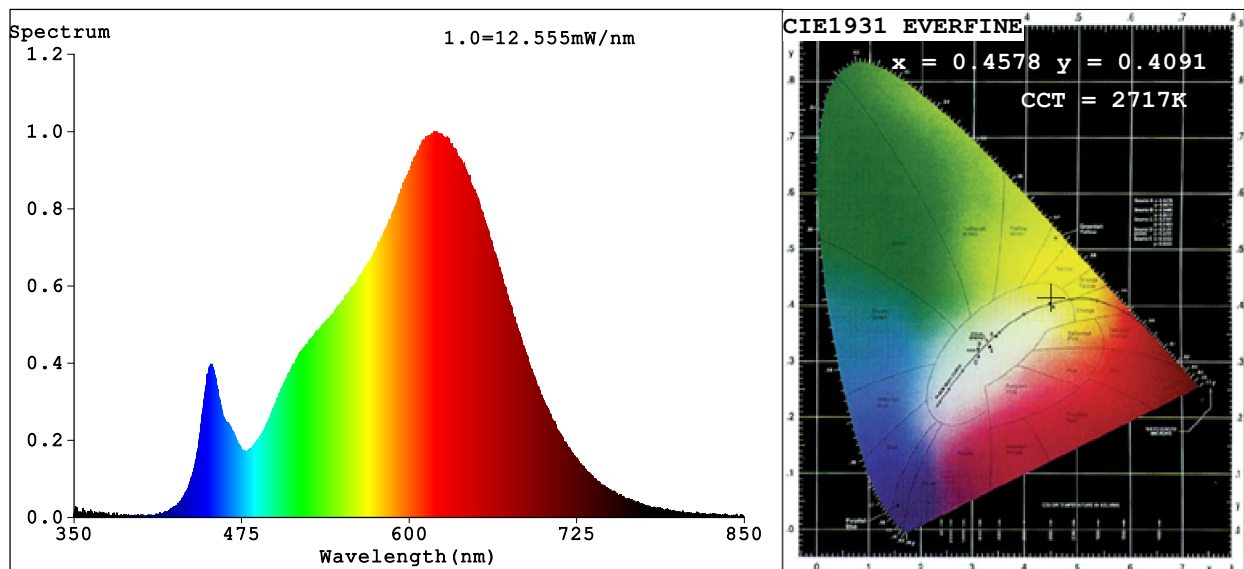
V = 230.08 V I = 0.05038 A P = 10.98 W PF = 0.9475

Status: Integral T = 500 ms Ip = 13126 (20%)

Model:Focalis Vex 7-9-11w
 Tester:Sergio Carneros
 Temperature:20Deg
 Manufacturer:Luz Negra

Number:45° 11w 2700K
 Date:2026-02-13 09:39:59
 Humidity:50%
 Remarks:1 unidad

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4578$ $y=0.4091$ $u'=0.2618$ $v'=0.5265$
 CCT=2717K (Duv=-0.0004) Dominant WL:Ld =584.2nm Purity=60.2%
 Ratio:R=26.4% G=71.2% B=2.4%; Peak WL:Lp=618.7nm FWHM=145.0nm
 Render Index:Ra=92.6 CRI=89.9 TM30:Rf=91 Rg=100
 R1 =93 R2 =97 R3 =99 R4 =93 R5 =93 R6 =96 R7 =91
 R8 =80 R9 =56 R10=91 R11=94 R12=84 R13=94 R14=99 R15=88

Photo Parameters:

Flux = 570.8 lm Eff. : 65.62 lm/W Fe = 2.000 W

Electrical parameters:

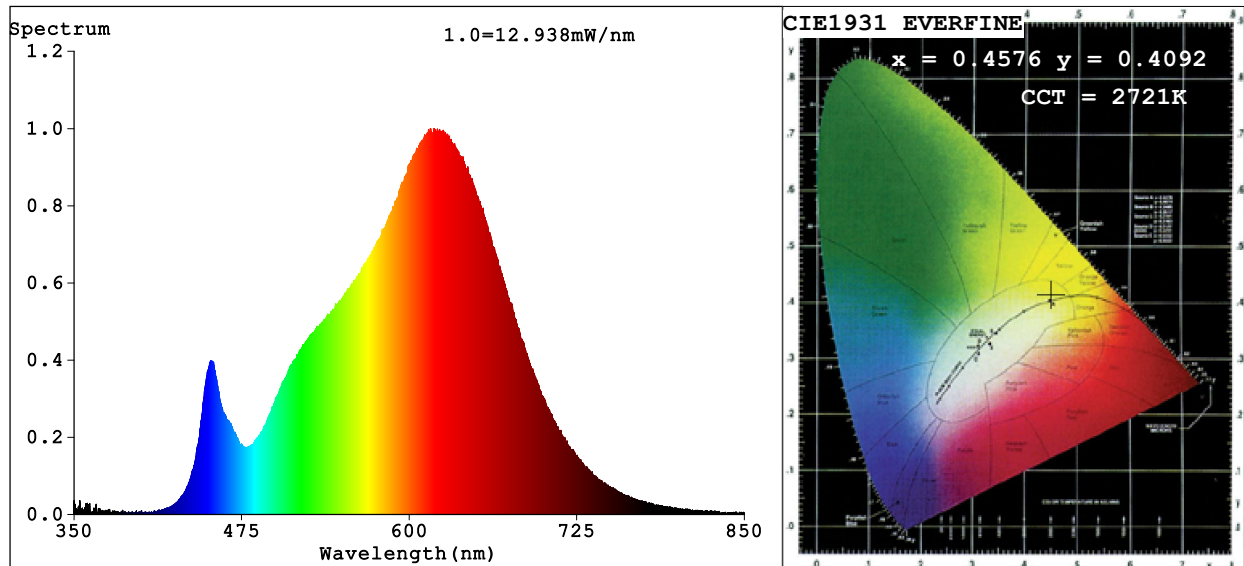
V = 230.09 V I = 0.04072 A P = 8.698 W PF = 0.9285

Status: Integral T = 500 ms Ip = 11038 (17%)

Model:Focalis Vex 7-9-11w
 Tester:Sergio Carneros
 Temperature:20Deg
 Manufacturer:Luz Negra

Number:18° 9w 2700K
 Date:2026-02-13 09:40:30
 Humidity:50%
 Remarks:1 unidad

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4576$ $y=0.4092$ $u'=0.2617$ $v'=0.5264$
CCT=2721K (Duv=-0.0003) Dominant WL:Ld =584.2nm Purity=60.2%
Ratio:R=26.3% G=71.3% B=2.4%; Peak WL:Lp=618.7nm FWHM=144.4nm
Render Index:Ra=92.5 CRI=89.7 TM30:Rf=90 Rg=100
R1 =93 R2 =96 R3 =98 R4 =93 R5 =92 R6 =96 R7 =91
R8 =80 R9 =56 R10=91 R11=94 R12=83 R13=94 R14=98 R15=88

Photo Parameters:

Flux = 589.9 lm Eff. : 67.69 lm/W Fe = 2.063 W

Electrical parameters:

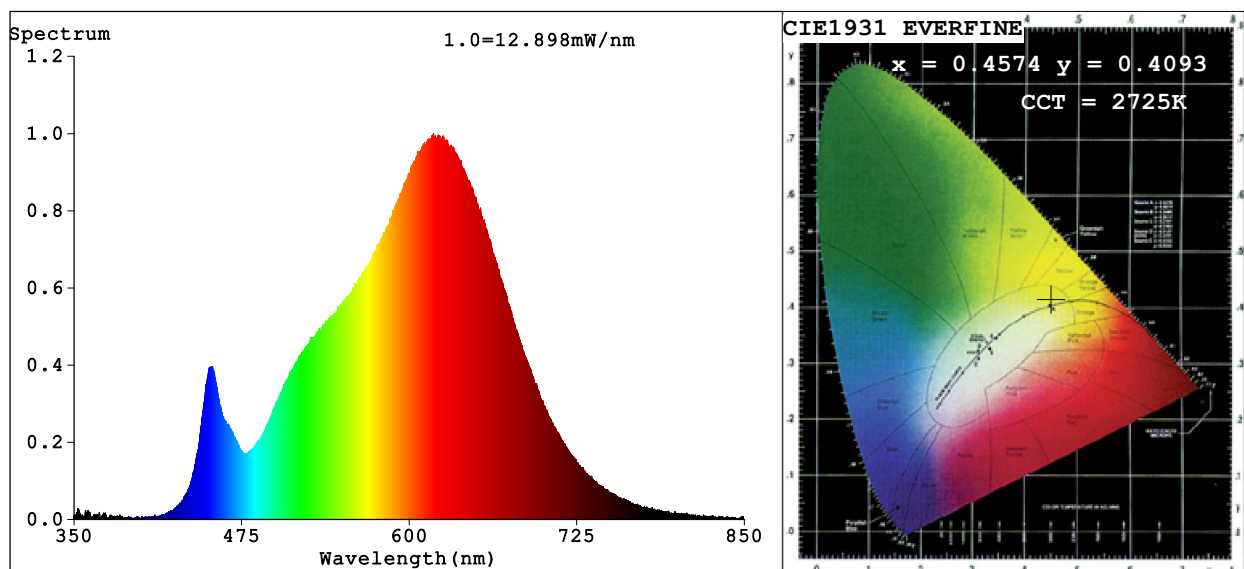
V = 230.09 V I = 0.04078 A P = 8.714 W PF = 0.9286

Status: Integral T = 500 ms Ip = 11391 (17%)

Model:Focalis Vex 7-9-11w
Tester:Sergio Carneros
Temperature:20Deg
Manufacturer:Luz Negra

Number:24° 9w 2700K
Date:2026-02-13 09:41:09
Humidity:50%
Remarks:1 unidad

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4574$ $y=0.4093$ $u'=0.2615$ $v'=0.5265$
 CCT=2725K (Duv=-0.0003) Dominant WL:Ld =584.2nm Purity=60.2%
 Ratio:R=26.3% G=71.3% B=2.4%; Peak WL:Lp=618.1nm FWHM=143.9nm
 Render Index:Ra=92.4 CRI=89.5 TM30:Rf=90 Rg=100
 R1 =93 R2 =96 R3 =98 R4 =93 R5 =92 R6 =96 R7 =91
 R8 =80 R9 =55 R10=90 R11=94 R12=83 R13=94 R14=98 R15=88

Photo Parameters:

Flux = 586.4 lm Eff. : 67.24 lm/W Fe = 2.046 W

Electrical parameters:

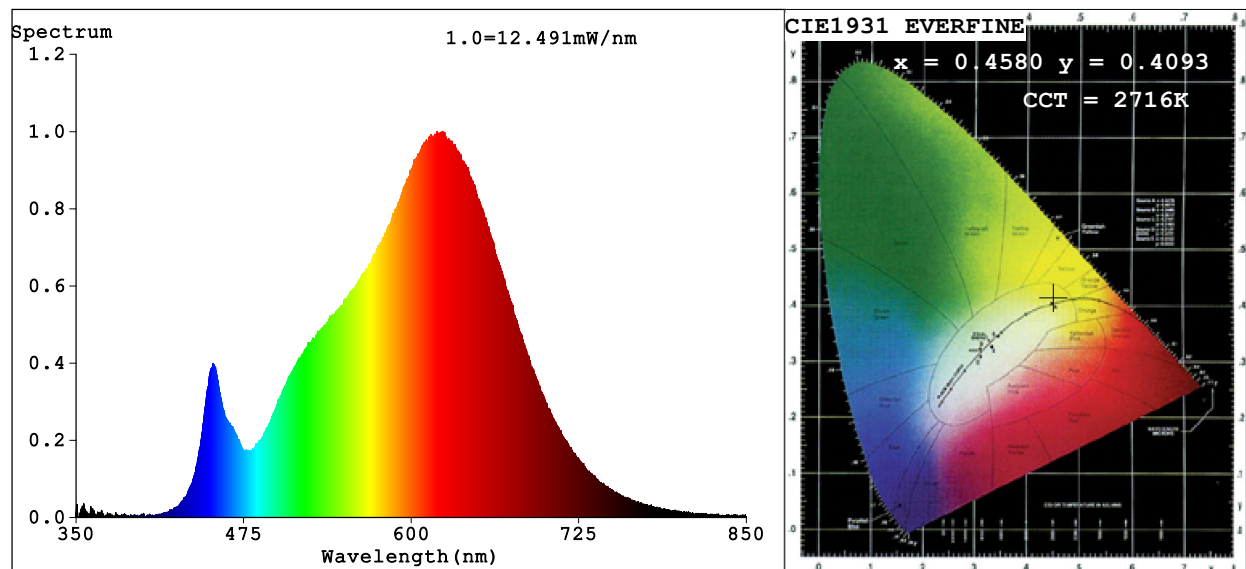
V = 230.09 V I = 0.04081 A P = 8.721 W PF = 0.9287

Status: Integral T = 500 ms Ip = 11279 (17%)

Model:Focalis Vex 7-9-11w
 Tester:Sergio Carneros
 Temperature:20Deg
 Manufacturer:Luz Negra

Number:36° 9w 2700K
 Date:2026-02-13 09:41:36
 Humidity:50%
 Remarks:1 unidad

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4580$ $y=0.4093$ $u'=0.2619$ $v'=0.5266$
 CCT=2716K (Duv=-0.0003) Dominant WL:Ld =584.2nm Purity=60.3%
 Ratio:R=26.4% G=71.3% B=2.4%; Peak WL:Lp=623.7nm FWHM=143.3nm
 Render Index:Ra=92.4 CRI=89.6 TM30:Rf=90 Rg=100
 R1 =93 R2 =96 R3 =98 R4 =93 R5 =92 R6 =96 R7 =91
 R8 =80 R9 =55 R10=91 R11=94 R12=83 R13=94 R14=98 R15=88

Photo Parameters:

Flux = 567.6 lm Eff. : 65.05 lm/W Fe = 1.984 W

Electrical parameters:

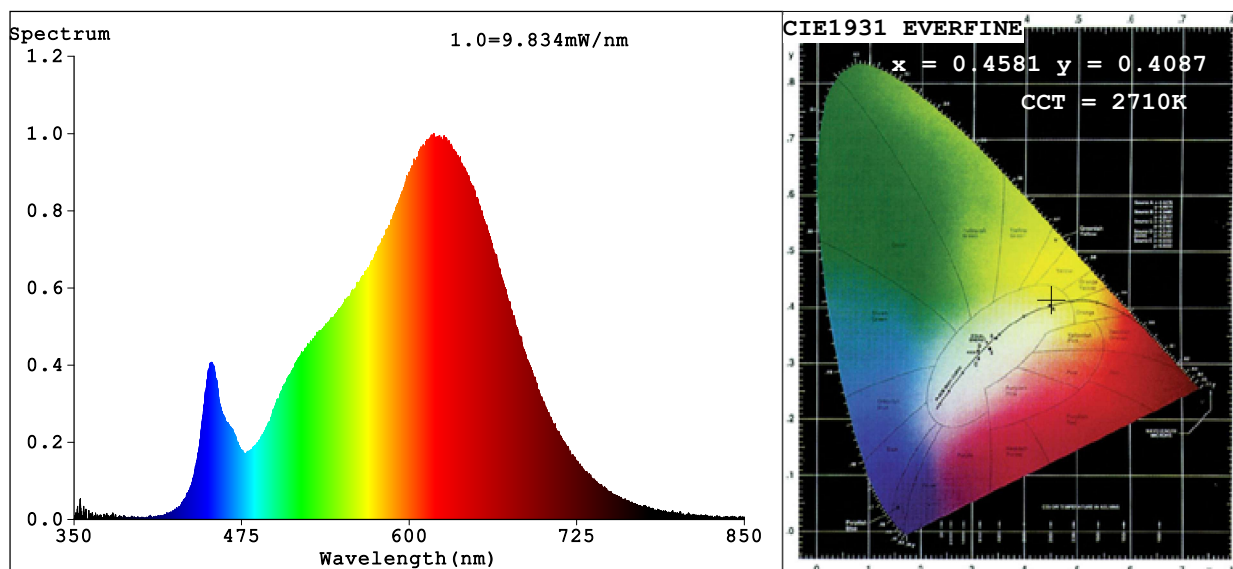
V = 230.09 V I = 0.04083 A P = 8.725 W PF = 0.9287

Status: Integral T = 500 ms Ip = 10935 (17%)

Model:Focalis Vex 7-9-11w
 Tester:Sergio Carneros
 Temperature:20Deg
 Manufacturer:Luz Negra

Number:45° 9w 2700K
 Date:2026-02-13 09:42:07
 Humidity:50%
 Remarks:1 unidad

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4581$ $y=0.4087$ $u'=0.2622$ $v'=0.5264$
 CCT=2710K (Duv=-0.0006) Dominant WL:Ld =584.3nm Purity=60.2%
 Ratio:R=26.5% G=71.1% B=2.4%; Peak WL:Lp=618.4nm FWHM=142.9nm
 Render Index:Ra=93.0 CRI=90.3 TM30:Rf=91 Rg=100
 R1 =93 R2 =97 R3 =99 R4 =93 R5 =93 R6 =97 R7 =91
 R8 =80 R9 =58 R10=92 R11=95 R12=84 R13=95 R14=99 R15=89

Photo Parameters:

Flux = 444.1 lm Eff. : 67.68 lm/W Fe = 1.561 W

Electrical parameters:

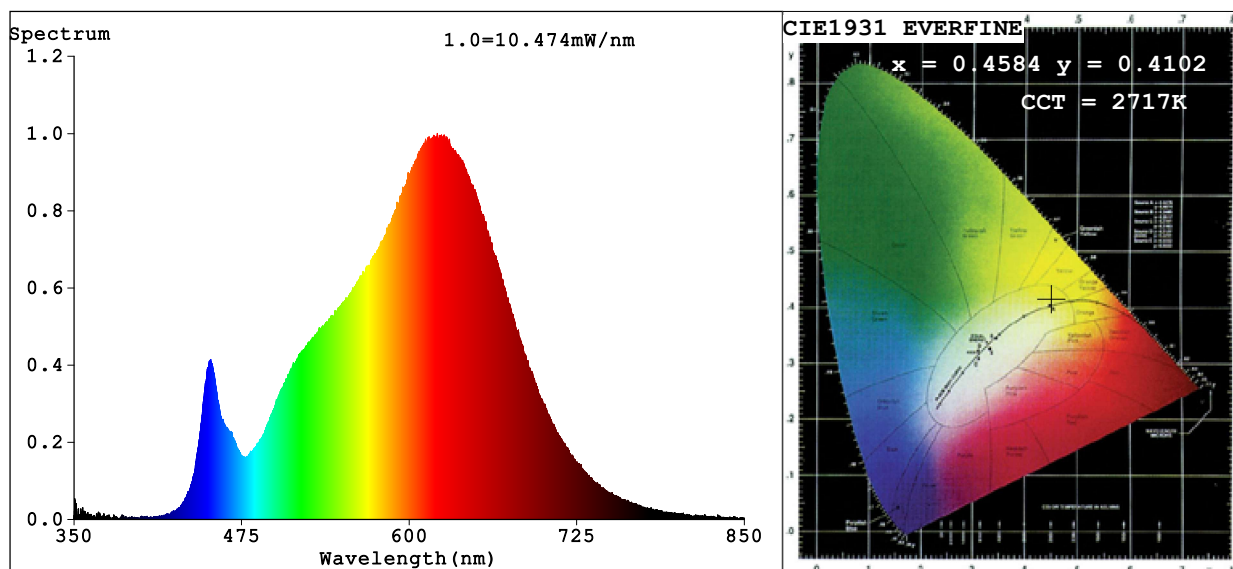
V = 230.11 V I = 0.03258 A P = 6.562 W PF = 0.8753

Status: Integral T = 500 ms Ip = 8595 (13%)

Model:Focalis Vex 7-9-11w
 Tester:Sergio Carneros
 Temperature:20Deg
 Manufacturer:Luz Negra

Number:18° 7w 2700K
 Date:2026-02-13 09:42:58
 Humidity:50%
 Remarks:1 unidad

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4584$ $y=0.4102$ $u'=0.2617$ $v'=0.5270$
 CCT=2717K (Duv=-0.0000) Dominant WL:Ld =584.1nm Purity=60.7%
 Ratio:R=26.4% G=71.2% B=2.4%; Peak WL:Lp=621.0nm FWHM=143.2nm
 Render Index:Ra=92.8 CRI=90.1 TM30:Rf=91 Rg=100
 R1 =93 R2 =97 R3 =98 R4 =93 R5 =93 R6 =96 R7 =92
 R8 =81 R9 =57 R10=91 R11=95 R12=83 R13=94 R14=98 R15=88

Photo Parameters:

Flux = 474.9 lm Eff. : 69.83 lm/W Fe = 1.660 W

Electrical parameters:

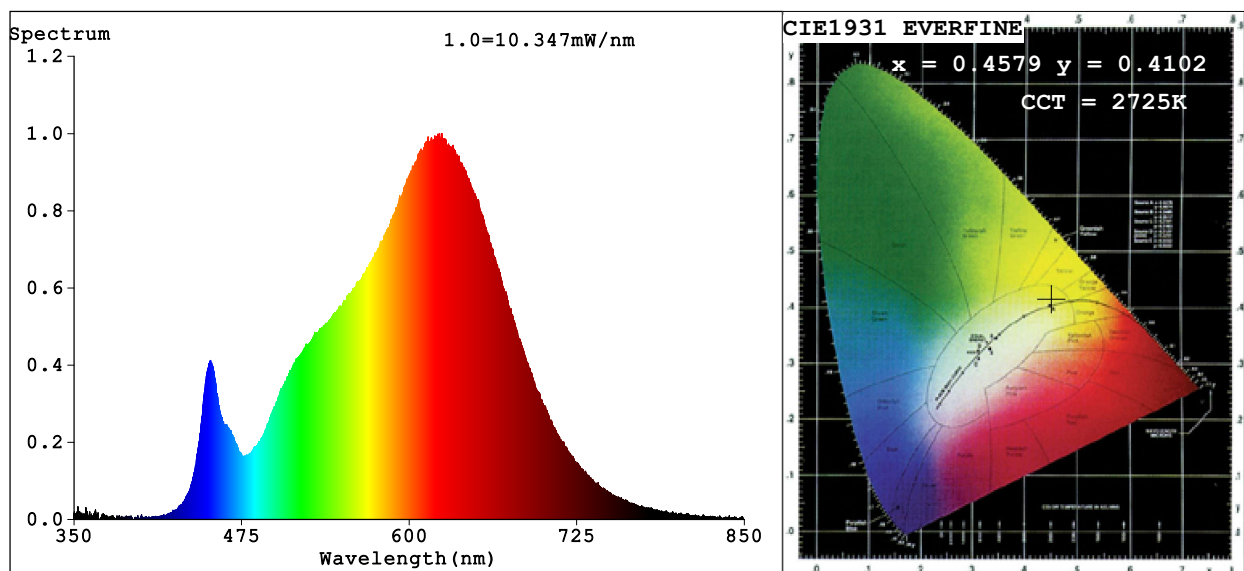
V = 230.10 V I = 0.03376 A P = 6.801 W PF = 0.8757

Status: Integral T = 500 ms Ip = 9207 (14%)

Model:Focalis Vex 7-9-11w
 Tester:Sergio Carneros
 Temperature:20Deg
 Manufacturer:Luz Negra

Number:24° 7w 2700K
 Date:2026-02-13 09:56:46
 Humidity:50%
 Remarks:1 unidad

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4579$ $y=0.4102$ $u'=0.2614$ $v'=0.5269$
 CCT=2725K (Duv=0.0000) Dominant WL:Ld =584.1nm Purity=60.6%
 Ratio:R=26.3% G=71.3% B=2.4%; Peak WL:Lp=624.3nm FWHM=142.7nm
 Render Index:Ra=92.8 CRI=90.0 TM30:Rf=91 Rg=100
 R1 =93 R2 =96 R3 =98 R4 =93 R5 =93 R6 =96 R7 =91
 R8 =80 R9 =57 R10=91 R11=95 R12=83 R13=94 R14=98 R15=88

Photo Parameters:

Flux = 467.7 lm Eff. : 69.30 lm/W Fe = 1.633 W

Electrical parameters:

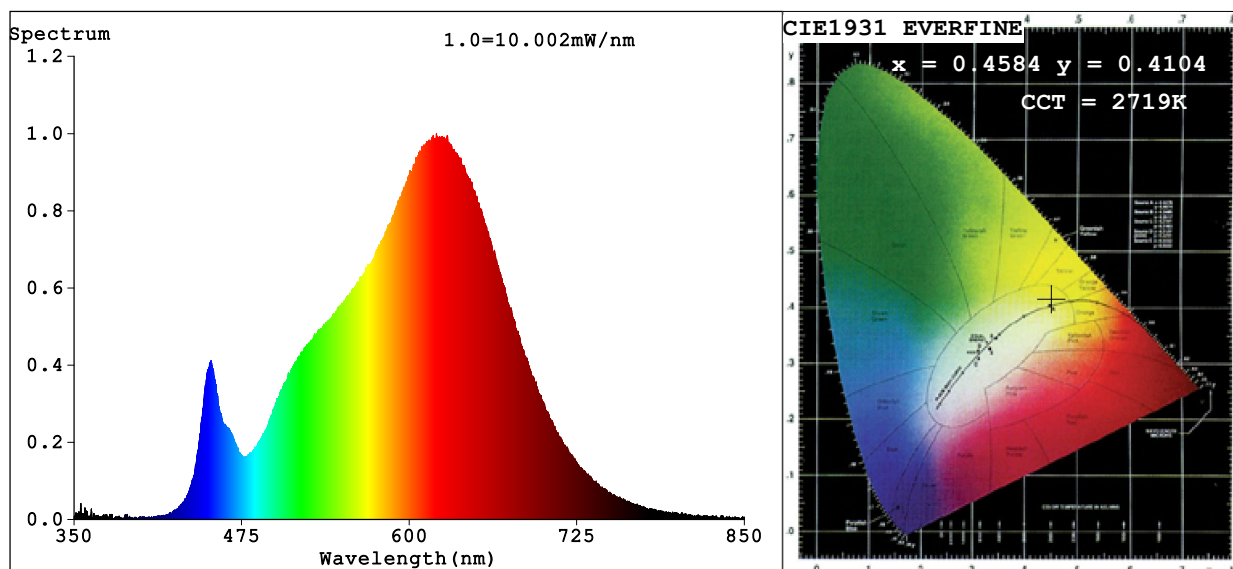
V = 230.09 V I = 0.03351 A P = 6.750 W PF = 0.8755

Status: Integral T = 500 ms Ip = 9057 (14%)

Model:Focalis Vex 7-9-11w
 Tester:Sergio Carneros
 Temperature:20Deg
 Manufacturer:Luz Negra

Number:36° 7w 2700K
 Date:2026-02-13 09:57:47
 Humidity:50%
 Remarks:1 unidad

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4584$ $y=0.4104$ $u'=0.2617$ $v'=0.5270$

$CCT=2719K$ ($Duv=0.0000$) Dominant WL: $L_d = 584.1nm$ Purity=60.8%

Ratio: $R=26.4\%$ $G=71.3\%$ $B=2.4\%$; Peak WL: $L_p=620.4nm$ FWHM=143.7nm

Render Index: $R_a=92.8$ CRI=90.0 TM30: $R_f=91$ $R_g=100$

$R_1 = 93$ $R_2 = 96$ $R_3 = 98$ $R_4 = 93$ $R_5 = 93$ $R_6 = 96$ $R_7 = 91$

$R_8 = 81$ $R_9 = 57$ $R_{10}=91$ $R_{11}=95$ $R_{12}=83$ $R_{13}=94$ $R_{14}=98$ $R_{15}=88$

Photo Parameters:

Flux = 452.4 lm Eff. : 67.14 lm/W $F_e = 1.580 W$

Electrical parameters:

$V = 230.11 V$ $I = 0.03345 A$ $P = 6.738 W$ PF = 0.8755

Status: Integral $T = 500 ms$ $I_p = 8714 (13\%)$

Model: Focalis Vex 7-9-11w
 Tester: Sergio Carneros
 Temperature: 20Deg
 Manufacturer: Luz Negra

Number: 45° 7w 2700K
 Date: 2026-02-13 09:58:18
 Humidity: 50%
 Remarks: 1 unidad