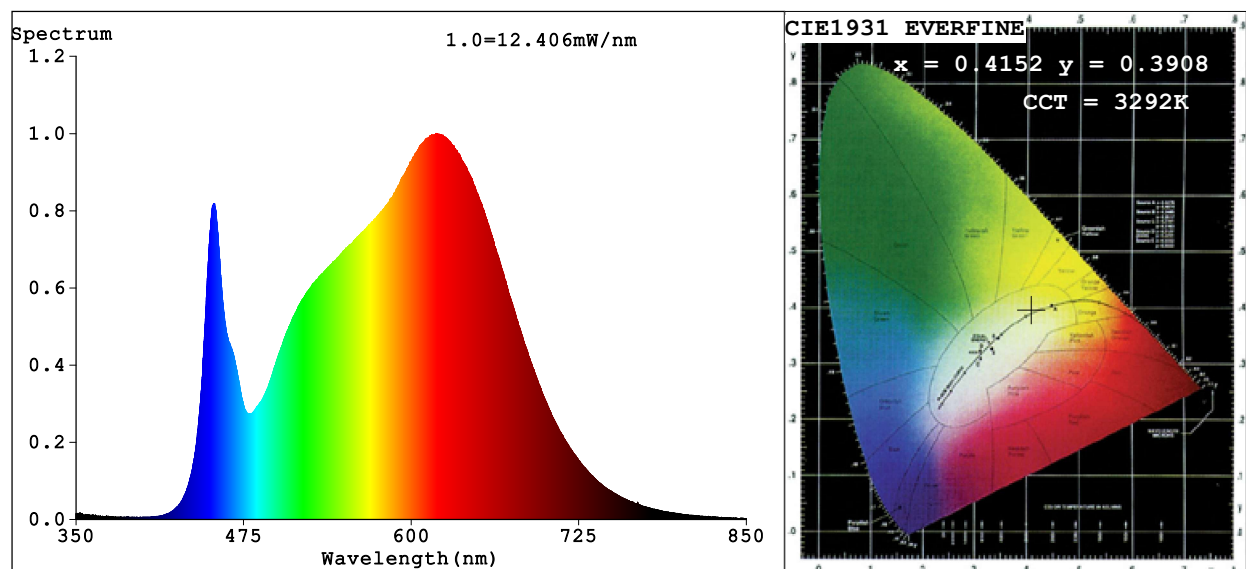


Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4152$ $y=0.3908$ $u'=0.2421$ $v'=0.5128$
 CCT=3292K (Duv=-0.0020) Dominant WL:Ld =582.5nm Purity=41.9%
 Ratio:R=23.0% G=73.7% B=3.3%; Peak WL:Lp=619.1nm FWHM=171.6nm
 Render Index:Ra=94.3 CRI=91.5 TM30:Rf=91 Rg=101
 R1 =95 R2 =97 R3 =97 R4 =95 R5 =95 R6 =95 R7 =94
 R8 =86 R9 =69 R10=92 R11=95 R12=77 R13=96 R14=98 R15=93

Photo Parameters:

Flux = 654.1 lm Eff. : 82.23 lm/W Fe = 2.274 W

Electrical parameters:

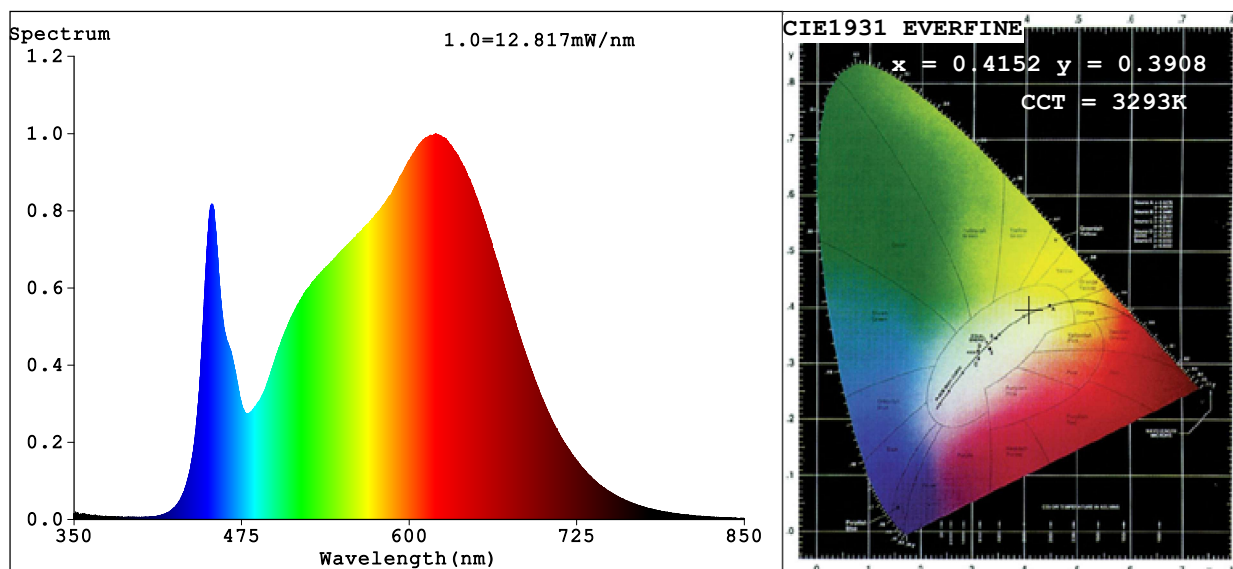
V = 230.08 V I = 0.07736 A P = 7.954 W PF = 0.4469

Status: Integral T = 2000 ms Ip = 43814 (67%)

Model:Focalis Vex 4-6-8w
 Tester:Sergio Carneros
 Temperature:20Deg
 Manufacturer:Luz Negra

Number:18° 8w 3000k
 Date:2026-02-12 13:37:55
 Humidity:50%
 Remarks:1 unidad

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4152$ $y=0.3908$ $u'=0.2421$ $v'=0.5128$
 CCT=3293K (Duv=-0.0020) Dominant WL:Ld =582.5nm Purity=41.9%
 Ratio:R=23.0% G=73.7% B=3.3%; Peak WL:Lp=619.7nm FWHM=171.0nm
 Render Index:Ra=94.1 CRI=91.3 TM30:Rf=91 Rg=101
 R1 =95 R2 =97 R3 =97 R4 =94 R5 =94 R6 =95 R7 =93
 R8 =86 R9 =68 R10=92 R11=95 R12=77 R13=96 R14=98 R15=93

Photo Parameters:

Flux = 676.1 lm Eff. : 85.05 lm/W Fe = 2.346 W

Electrical parameters:

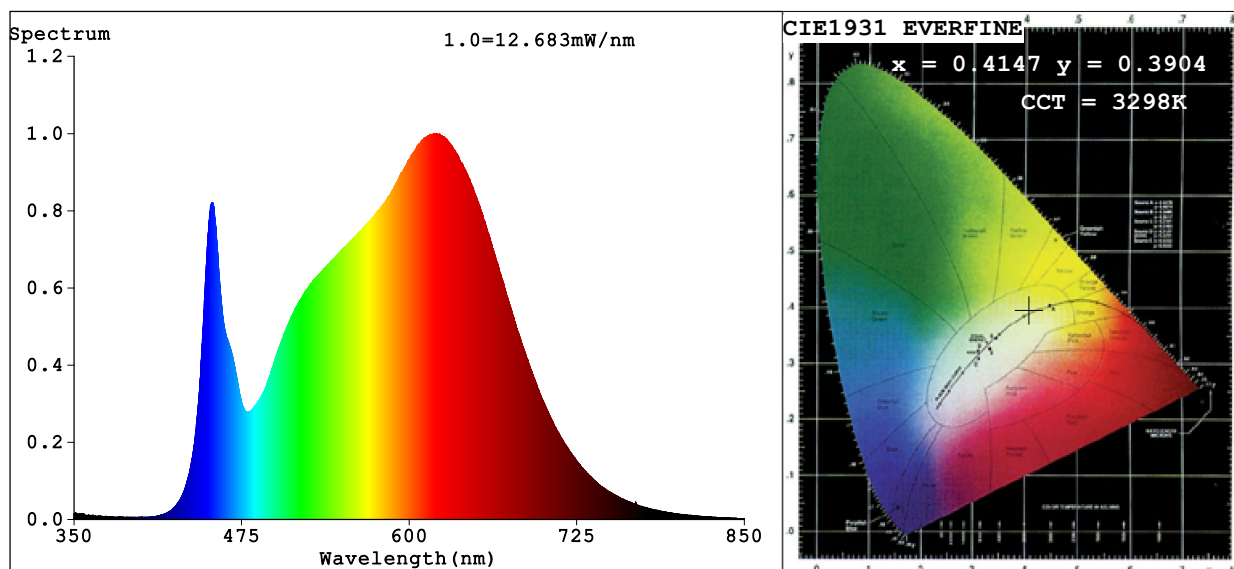
V = 230.08 V I = 0.07705 A P = 7.950 W PF = 0.4484

Status: Integral T = 2000 ms Ip = 45295 (69%)

Model:Focalis Vex 4-6-8w
 Tester:Sergio Carneros
 Temperature:20Deg
 Manufacturer:Luz Negra

Number:24° 8w 3000k
 Date:2026-02-12 13:39:12
 Humidity:50%
 Remarks:1 unidad

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4147$ $y=0.3904$ $u'=0.2420$ $v'=0.5125$
 CCT=3298K (Duv=-0.0021) Dominant WL:Ld =582.5nm Purity=41.6%
 Ratio:R=22.9% G=73.7% B=3.4%; Peak WL:Lp=622.7nm FWHM=170.8nm
 Render Index:Ra=94.1 CRI=91.3 TM30:Rf=91 Rg=101
 R1 =95 R2 =98 R3 =97 R4 =94 R5 =94 R6 =95 R7 =93
 R8 =86 R9 =68 R10=92 R11=94 R12=77 R13=96 R14=98 R15=93

Photo Parameters:

Flux = 671.2 lm Eff. : 84.66 lm/W Fe = 2.329 W

Electrical parameters:

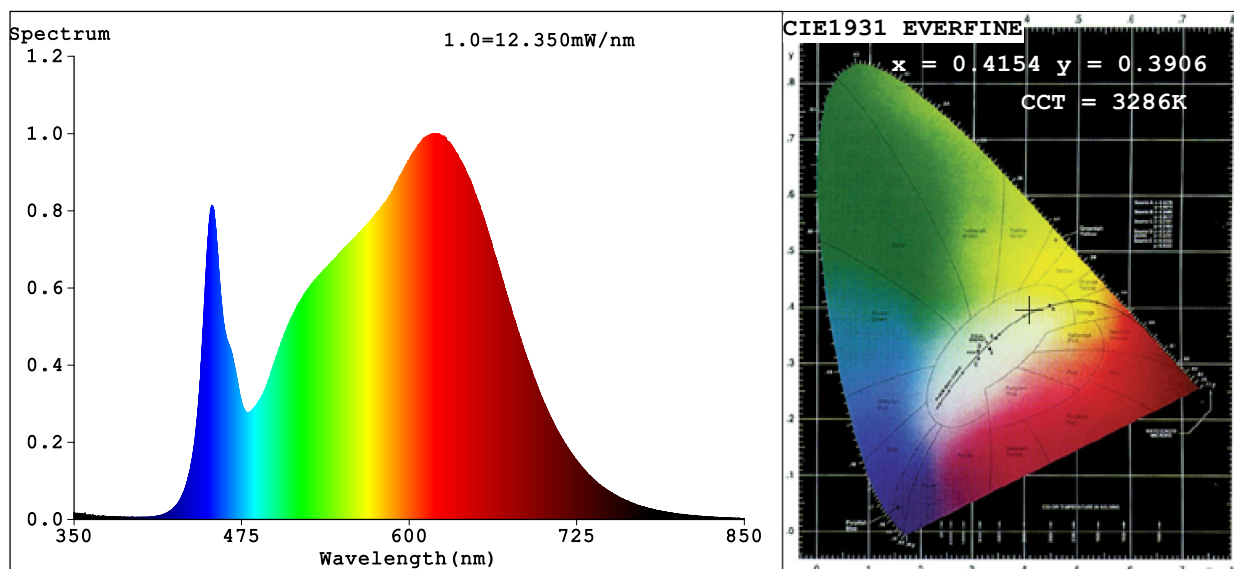
V = 230.09 V I = 0.07689 A P = 7.928 W PF = 0.4481

Status: Integral T = 2000 ms Ip = 44943 (69%)

Model:Focalis Vex 4-6-8w
 Tester:Sergio Carneros
 Temperature:20Deg
 Manufacturer:Luz Negra

Number:36° 8w 3000k
 Date:2026-02-12 13:41:15
 Humidity:50%
 Remarks:1 unidad

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4154$ $y=0.3906$ $u'=0.2423$ $v'=0.5127$

$CCT=3286K$ ($Duv=-0.0021$) Dominant WL: $Ld = 582.5nm$ Purity=41.9%

Ratio: $R=23.0\%$ $G=73.6\%$ $B=3.4\%$; Peak WL: $Lp=619.7nm$ FWHM=170.8nm

Render Index: $Ra=94.1$ CRI=91.4 TM30: $Rf=91$ $Rg=101$

$R1 = 95$ $R2 = 98$ $R3 = 97$ $R4 = 94$ $R5 = 94$ $R6 = 95$ $R7 = 93$

$R8 = 86$ $R9 = 68$ $R10=92$ $R11=94$ $R12=77$ $R13=96$ $R14=98$ $R15=93$

Photo Parameters:

Flux = 651.9 lm Eff. : 82.27 lm/W $Fe = 2.263 W$

Electrical parameters:

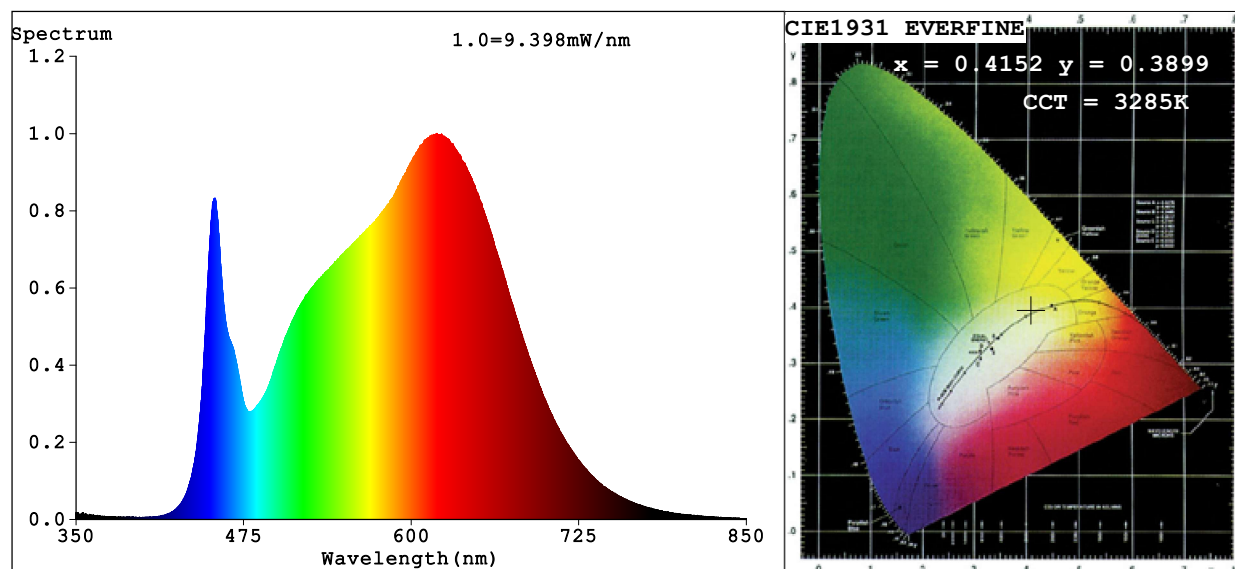
$V = 230.06 V$ $I = 0.07679 A$ $P = 7.923 W$ PF = 0.4485

Status: Integral $T = 2000 ms$ $Ip = 43761 (67\%)$

Model: Focalis Vex 4-6-8w
 Tester: Sergio Carneros
 Temperature: 20Deg
 Manufacturer: Luz Negra

Number: 45° 8w 3000k
 Date: 2026-02-12 13:42:20
 Humidity: 50%
 Remarks: 1 unidad

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4152$ $y=0.3899$ $u'=0.2425$ $v'=0.5124$
 CCT=3285K (Duv=-0.0024) Dominant WL:Ld =582.7nm Purity=41.6%
 Ratio:R=23.1% G=73.5% B=3.4%; Peak WL:Lp=619.1nm FWHM=171.1nm
 Render Index:Ra=94.6 CRI=91.9 TM30:Rf=91 Rg=101
 R1 =96 R2 =98 R3 =98 R4 =95 R5 =95 R6 =95 R7 =93
 R8 =87 R9 =70 R10=94 R11=95 R12=77 R13=97 R14=98 R15=93

Photo Parameters:

Flux = 493.1 lm Eff. : 82.90 lm/W Fe = 1.720 W

Electrical parameters:

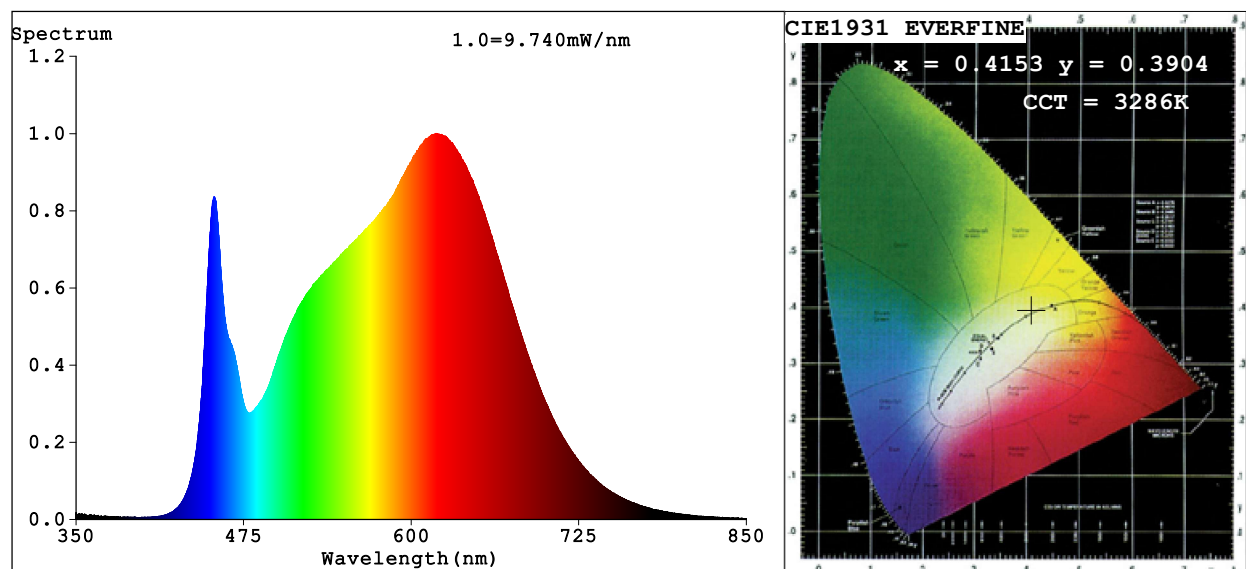
V = 230.09 V I = 0.06147 A P = 5.948 W PF = 0.4206

Status: Integral T = 2000 ms Ip = 33195 (51%)

Model:Focalis Vex 4-6-8w
 Tester:Sergio Carneros
 Temperature:20Deg
 Manufacturer:Luz Negra

Number:18° 6w 3000k
 Date:2026-02-12 13:44:31
 Humidity:50%
 Remarks:1 unidad

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4153$ $y=0.3904$ $u'=0.2424$ $v'=0.5126$
 CCT=3286K (Duv=-0.0022) Dominant WL:Ld =582.6nm Purity=41.8%
 Ratio:R=23.1% G=73.6% B=3.4%; Peak WL:Lp=619.1nm FWHM=170.8nm
 Render Index:Ra=94.4 CRI=91.6 TM30:Rf=91 Rg=101
 R1 =96 R2 =98 R3 =97 R4 =94 R5 =95 R6 =95 R7 =93
 R8 =86 R9 =69 R10=93 R11=95 R12=77 R13=97 R14=98 R15=93

Photo Parameters:

Flux = 512.5 lm Eff. : 85.91 lm/W Fe = 1.782 W

Electrical parameters:

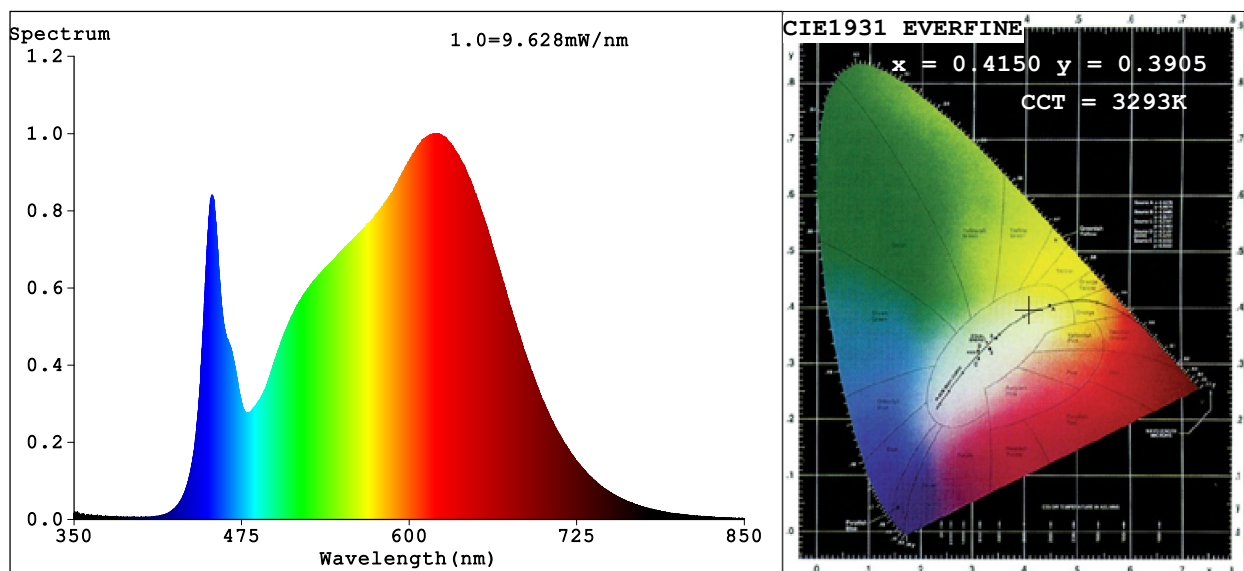
V = 230.08 V I = 0.06148 A P = 5.966 W PF = 0.4217

Status: Integral T = 2000 ms Ip = 34409 (53%)

Model:Focalis Vex 4-6-8w
 Tester:Sergio Carneros
 Temperature:20Deg
 Manufacturer:Luz Negra

Number:24° 6w 3000k
 Date:2026-02-12 13:47:48
 Humidity:50%
 Remarks:1 unidad

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4150$ $y=0.3905$ $u'=0.2421$ $v'=0.5126$
 CCT=3293K (Duv=-0.0021) Dominant WL:Ld =582.5nm Purity=41.8%
 Ratio:R=23.0% G=73.6% B=3.4%; Peak WL:Lp=620.7nm FWHM=171.0nm
 Render Index:Ra=94.3 CRI=91.5 TM30:Rf=91 Rg=101
 R1 =95 R2 =98 R3 =97 R4 =94 R5 =95 R6 =95 R7 =93
 R8 =86 R9 =69 R10=93 R11=95 R12=76 R13=96 R14=98 R15=93

Photo Parameters:

Flux = 508.1 lm Eff. : 84.93 lm/W Fe = 1.764 W

Electrical parameters:

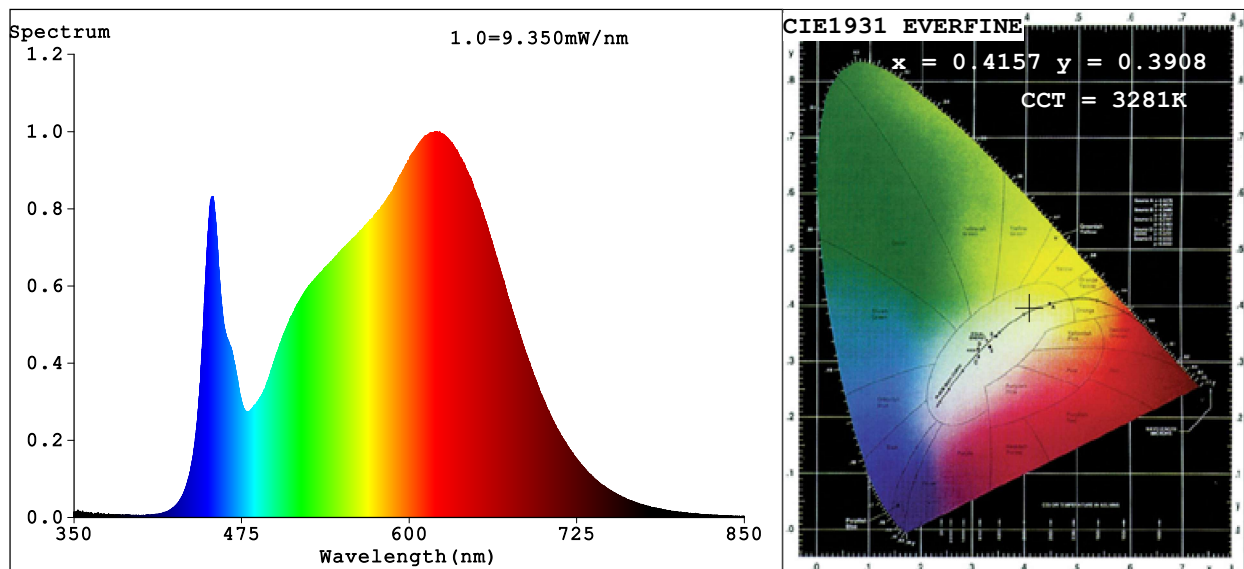
V = 230.07 V I = 0.06160 A P = 5.983 W PF = 0.4221

Status: Integral T = 2000 ms Ip = 34098 (52%)

Model:Focalis Vex 4-6-8w
 Tester:Sergio Carneros
 Temperature:20Deg
 Manufacturer:Luz Negra

Number:36° 6w 3000k
 Date:2026-02-12 13:49:12
 Humidity:50%
 Remarks:1 unidad

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4157$ $y=0.3908$ $u'=0.2425$ $v'=0.5129$

CCT=3281K (Duv=-0.0021) Dominant WL:Ld =582.5nm Purity=42.1%

Ratio:R=23.1% G=73.6% B=3.4%; Peak WL:Lp=622.7nm FWHM=170.5nm

Render Index:Ra=94.3 CRI=91.5 TM30:Rf=91 Rg=101

R1 =95 R2 =98 R3 =97 R4 =94 R5 =95 R6 =95 R7 =93

R8 =86 R9 =69 R10=93 R11=95 R12=77 R13=96 R14=98 R15=93

Photo Parameters:

Flux = 491.9 lm Eff. : 82.35 lm/W Fe = 1.709 W

Electrical parameters:

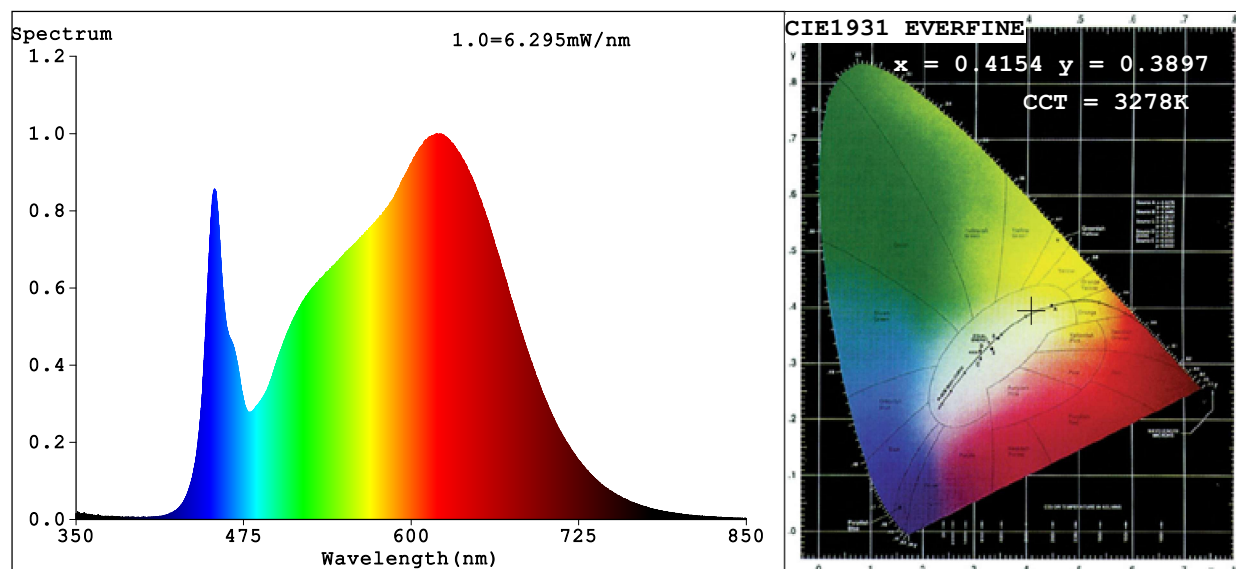
V = 230.08 V I = 0.06153 A P = 5.973 W PF = 0.4220

Status: Integral T = 2000 ms Ip = 33051 (50%)

Model:Focalis Vex 4-6-8w
Tester:Sergio Carneros
Temperature:20Deg
Manufacturer:Luz Negra

Number:45° 6w 3000k
Date:2026-02-12 13:50:28
Humidity:50%
Remarks:1 unidad

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4154$ $y=0.3897$ $u'=0.2427$ $v'=0.5123$

$CCT=3278K$ ($Duv=-0.0025$) Dominant WL: $L_d = 582.8nm$ Purity=41.6%

Ratio: $R=23.2\%$ $G=73.4\%$ $B=3.4\%$; Peak WL: $L_p=619.1nm$ FWHM=171.1nm

Render Index: $R_a=94.8$ $CRI=92.3$ $TM30:R_f=91$ $R_g=101$

$R_1 = 96$ $R_2 = 98$ $R_3 = 98$ $R_4 = 95$ $R_5 = 95$ $R_6 = 96$ $R_7 = 93$

$R_8 = 87$ $R_9 = 72$ $R_{10}=94$ $R_{11}=95$ $R_{12}=77$ $R_{13}=97$ $R_{14}=98$ $R_{15}=94$

Photo Parameters:

Flux = 329.0 lm Eff. : 80.63 lm/W $F_e = 1.151 W$

Electrical parameters:

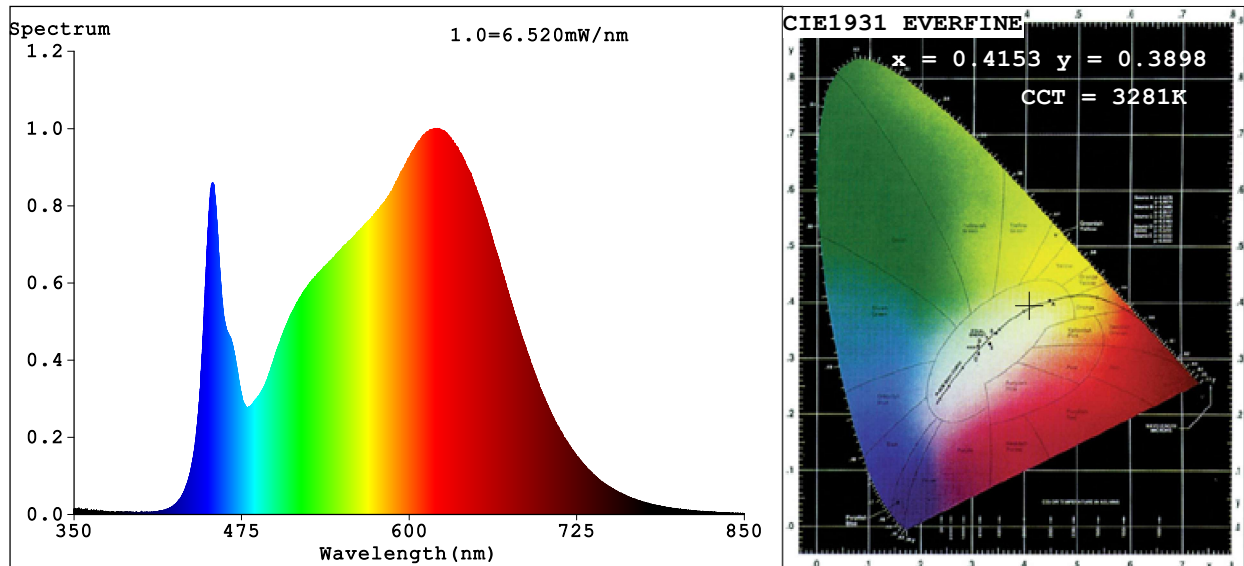
$V = 230.10 V$ $I = 0.04452 A$ $P = 4.080 W$ $PF = 0.3983$

Status: Integral $T = 4409 ms$ $I_p = 48902 (75\%)$

Model:Focalis Vex 4-6-8w
 Tester:Sergio Carneros
 Temperature:20Deg
 Manufacturer:Luz Negra

Number:18° 4w 3000k
 Date:2026-02-12 13:52:33
 Humidity:50%
 Remarks:1 unidad

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4153$ $y=0.3898$ $u'=0.2426$ $v'=0.5124$

CCT=3281K (Duv=-0.0024) Dominant WL:Ld =582.7nm Purity=41.6%

Ratio:R=23.1% G=73.4% B=3.4%; Peak WL:Lp=622.7nm FWHM=170.8nm

Render Index:Ra=94.6 CRI=92.1 TM30:Rf=91 Rg=101

R1 =96 R2 =98 R3 =98 R4 =95 R5 =95 R6 =95 R7 =93

R8 =87 R9 =71 R10=94 R11=95 R12=77 R13=97 R14=98 R15=93

Photo Parameters:

Flux = 342.0 lm Eff. : 83.80 lm/W Fe = 1.193 W

Electrical parameters:

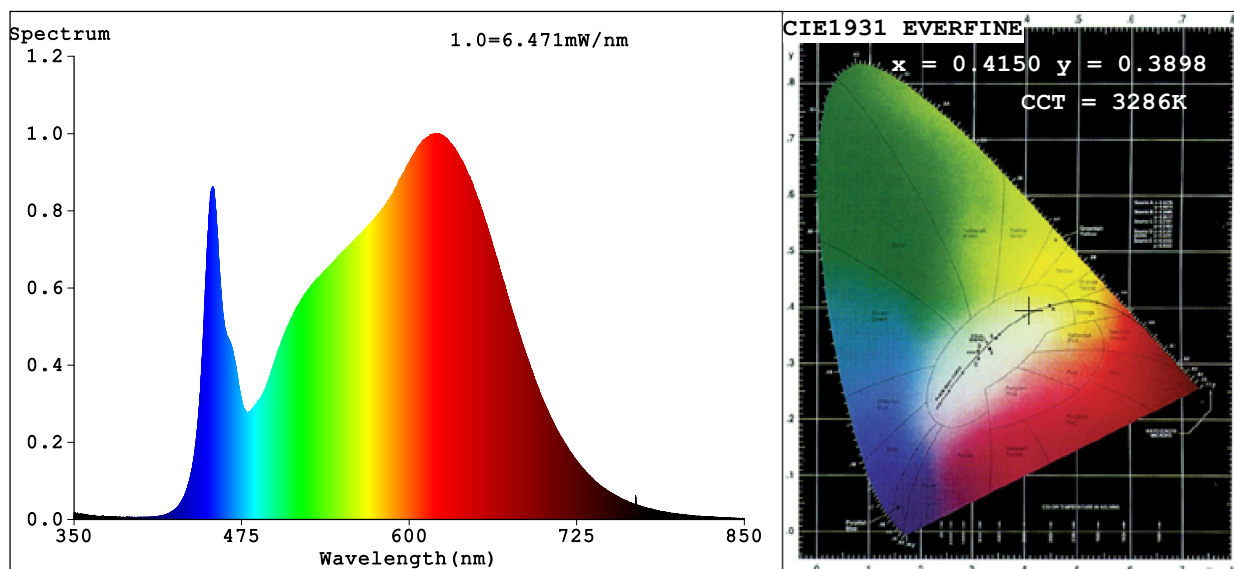
V = 230.09 V I = 0.04451 A P = 4.080 W PF = 0.3984

Status: Integral T = 3924 ms Ip = 45136 (69%)

Model:Focalis Vex 4-6-8w
Tester:Sergio Carneros
Temperature:20Deg
Manufacturer:Luz Negra

Number:24° 4w 3000k
Date:2026-02-12 13:53:53
Humidity:50%
Remarks:1 unidad

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4150$ $y=0.3898$ $u'=0.2424$ $v'=0.5123$

CCT=3286K (Duv=-0.0024) Dominant WL:Ld =582.7nm Purity=41.5%

Ratio:R=23.1% G=73.5% B=3.4%; Peak WL:Lp=619.4nm FWHM=171.0nm

Render Index:Ra=94.6 CRI=92.0 TM30:Rf=91 Rg=101

R1 =96 R2 =98 R3 =98 R4 =95 R5 =95 R6 =95 R7 =93

R8 =87 R9 =71 R10=94 R11=95 R12=77 R13=97 R14=98 R15=93

Photo Parameters:

Flux = 339.8 lm Eff. : 83.27 lm/W Fe = 1.184 W

Electrical parameters:

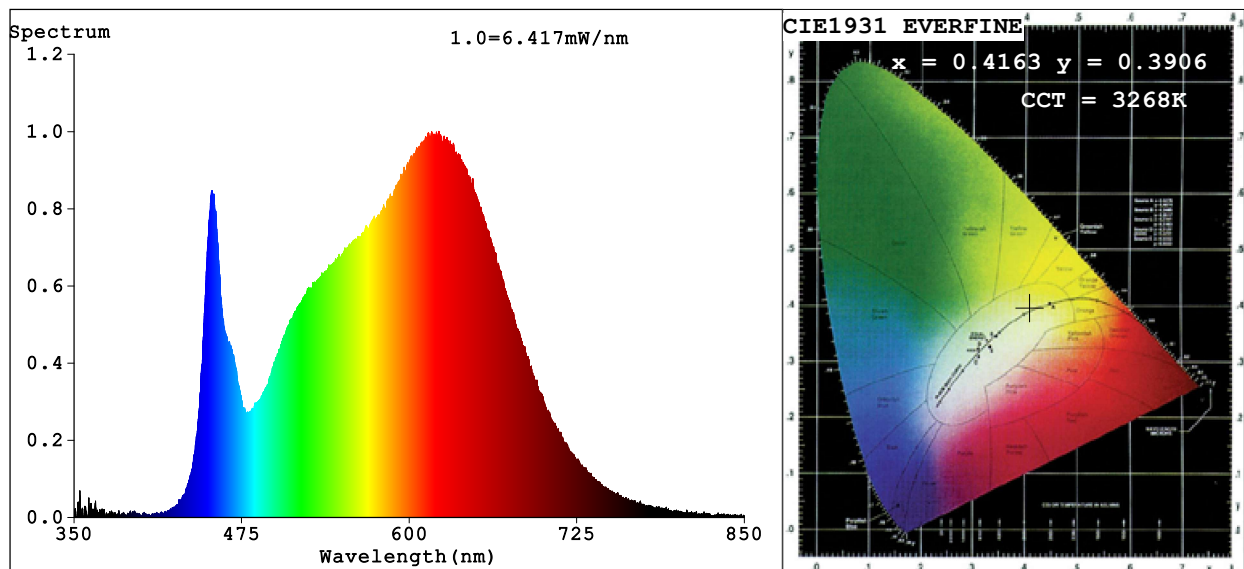
V = 230.09 V I = 0.04448 A P = 4.080 W PF = 0.3987

Status: Integral T = 4304 ms Ip = 49107 (75%)

Model:Focalis Vex 4-6-8w
Tester:Sergio Carneros
Temperature:20Deg
Manufacturer:Luz Negra

Number:36° 4w 3000k
Date:2026-02-12 13:55:17
Humidity:50%
Remarks:1 unidad

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4163$ $y=0.3906$ $u'=0.2429$ $v'=0.5129$
 CCT=3268K (Duv=-0.0023) Dominant WL:Ld =582.7nm Purity=42.2%
 Ratio:R=23.2% G=73.4% B=3.4%; Peak WL:Lp=622.0nm FWHM=169.4nm
 Render Index:Ra=94.5 CRI=91.9 TM30:Rf=91 Rg=101
 R1 =96 R2 =98 R3 =98 R4 =94 R5 =95 R6 =95 R7 =93
 R8 =87 R9 =70 R10=94 R11=95 R12=77 R13=97 R14=98 R15=93

Photo Parameters:

Flux = 332.5 lm Eff. : 81.31 lm/W Fe = 1.157 W

Electrical parameters:

V = 230.08 V I = 0.04463 A P = 4.089 W PF = 0.3983

Status: Integral T = 500 ms Ip = 5650 (9%)

Model:Focalis Vex 4-6-8w
 Tester:Sergio Carneros
 Temperature:20Deg
 Manufacturer:Luz Negra

Number:45° 4w 3000k
 Date:2026-02-12 13:56:03
 Humidity:50%
 Remarks:1 unidad