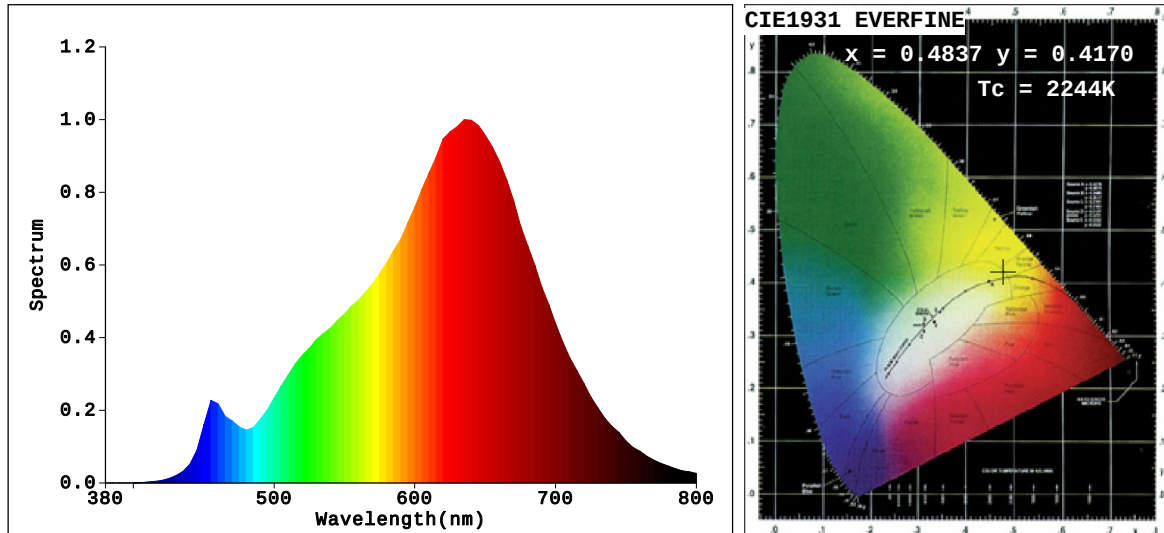


Spectrophotocolorimeter Test Report

ZL-C22-2W22E14C

Light Source Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4837$ $y=0.4170$ $u'=0.2750$ $v'=0.5333$
Tc=2244K Dominant WL:Ld=585.3nm Purity=70.4% Centroid WL:622.0nm
Ratio:R=31.0% G=67.1% B=1.9% Peak WL:Lp=635.0nm HWL:135.1nm
Render Index:Ra=97.6
R1 =99 R2 =100 R3 =98 R4 =99 R5 =99 R6 =98 R7 =96
R8 =92 R9 =93 R10=97 R11=98 R12=89 R13=100 R14=98 R15=96

Photo Parameters:

Flux: 149.04 lm Fe: 0.59241 W Efficacy:66.11 lm/W
LEVEL: WHITE:OUT

Electrical Parameters:

Luminaire: U=241.6V I=0.009484A P=2.255W PF=0.9840

Instrument Status:

Scan Range:380.0nm-800.0nm Interval:5.0nm[0]
REF=5148(R=4) $\lambda=0.316\%$

Ip=39702(G=6,D=94)
PMT: 33.7 centigrade [37.3]

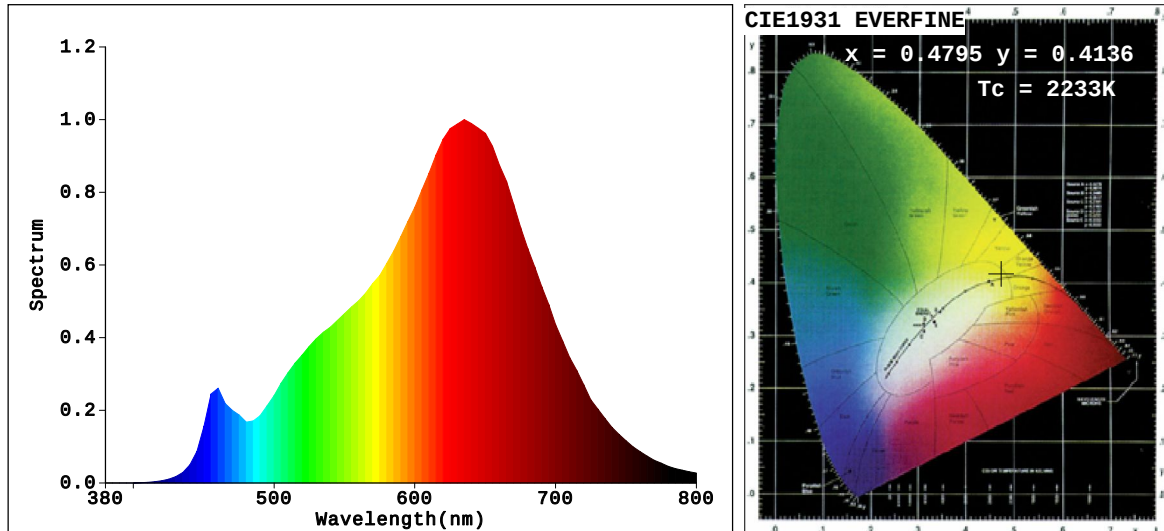
Product Type:ZL-C22-2W22E14C
Number:1
Temperature: deg
Test Operator:
Software:V2.00.100

Manufacturer:
Test Department:
Humidity:%
Test Date:2026-04-21 20:27:41
Instrument:PMS-80_V1 (SN:1009039)

Spectrophotocolorimeter Test Report

ZL-C22-2W22E14C

Light Source Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4795$ $y=0.4136$ / $u'=0.2739$ $v'=0.5314$
Tc=2233K Dominant WL:Ld=585.5nm Purity=68.1% Centroid WL:622.0nm
Ratio:R=30.9% G=67.0% B=2.1% Peak WL:Lp=635.0nm HWL:134.3nm
Render Index:Ra=97.4
R1 =99 R2 =99 R3 =99 R4 =99 R5 =99 R6 =96 R7 =95
R8 =93 R9 =95 R10=100 R11=97 R12=88 R13=99 R14=98 R15=97

Photo Parameters:

Flux: 152.46 lm Fe: 0.60735 W Efficacy:65.76 lm/W
LEVEL: WHITE:OUT

Electrical Parameters:

Luminaire: U=241.6V I=0.009754A P=2.318W PF=0.9838

Instrument Status:

Scan Range:380.0nm-800.0nm Interval:5.0nm[0]
REF=5261(R=4) %=0.251%

Ip=40959(G=6,D=96)
PMT: 33.9 centigrade [37.3]

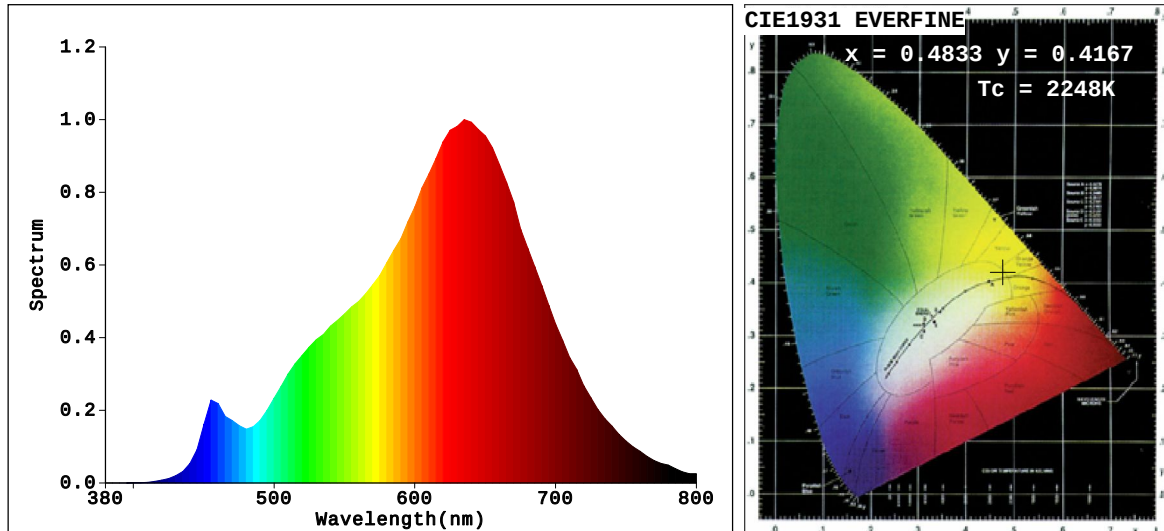
Product Type:ZL-C22-2W22E14C
Number:2
Temperature: deg
Test Operator:
Software:V2.00.100

Manufacturer:
Test Department:
Humidity:%
Test Date:2026-04-21 20:29:11
Instrument:PMS-80_V1 (SN:1009039)

Spectrophotocolorimeter Test Report

ZL-C22-2W22E14C

Light Source Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4833$ $y=0.4167$ / $u'=0.2748$ $v'=0.5332$
Tc=2248K Dominant WL:Ld=585.3nm Purity=70.2% Centroid WL:622.0nm
Ratio:R=31.0% G=67.1% B=1.9% Peak WL:Lp=635.0nm HWL:133.9nm
Render Index:Ra=97.5
R1 =99 R2 =100 R3 =98 R4 =99 R5 =99 R6 =98 R7 =96
R8 =92 R9 =93 R10=98 R11=97 R12=89 R13=100 R14=97 R15=96

Photo Parameters:

Flux: 150.07 lm Fe: 0.59584 W Efficacy:66.59 lm/W
LEVEL: WHITE:OUT

Electrical Parameters:

Luminaire: U=241.6V I=0.009480A P=2.254W PF=0.9840

Instrument Status:

Scan Range:380.0nm-800.0nm Interval:5.0nm[0]
REF=5182(R=4) %=-0.235%

Ip=40297(G=6,D=96)
PMT: 34.1 centigrade [37.3]

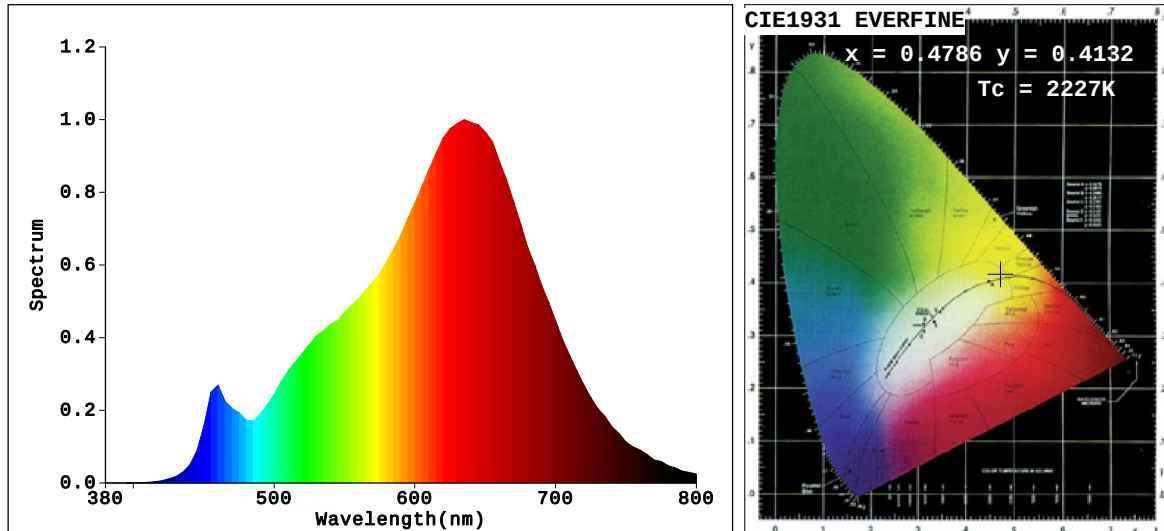
Product Type:ZL-C22-2W22E14C
Number:3
Temperature: deg
Test Operator:
Software:V2.00.100

Manufacturer:
Test Department:
Humidity:%
Test Date:2026-04-21 20:30:32
Instrument:PMS-80_V1 (SN:1009039)

Spectrophotocolorimeter Test Report

ZL-C22-2W22E14C

Light Source Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4786$ $y=0.4132$ $u'=0.2735$ $v'=0.5312$
Tc=2227K Dominant WL:Ld=585.5nm Purity=67.7% Centroid WL:621.0nm
Ratio:R=30.8% G=67.1% B=2.1% Peak WL:Lp=635.0nm HWL:136.6nm
Render Index:Ra=97.3
R1 =99 R2 =99 R3 =99 R4 =99 R5 =99 R6 =96 R7 =95
R8 =93 R9 =95 R10=99 R11=97 R12=88 R13=99 R14=98 R15=97

Photo Parameters:

Flux: 155.52 lm Fe: 0.61973 W Efficacy:67.26 lm/W
LEVEL: WHITE:OUT

Electrical Parameters:

Luminaire: U=241.6V I=0.009729A P=2.312W PF=0.9836

Instrument Status:

Scan Range:380.0nm-800.0nm Interval:5.0nm[0]
REF=5364(R=4) %=-0.342%

Ip=41055(G=6,D=97)
PMT: 34.3 centigrade [37.2]

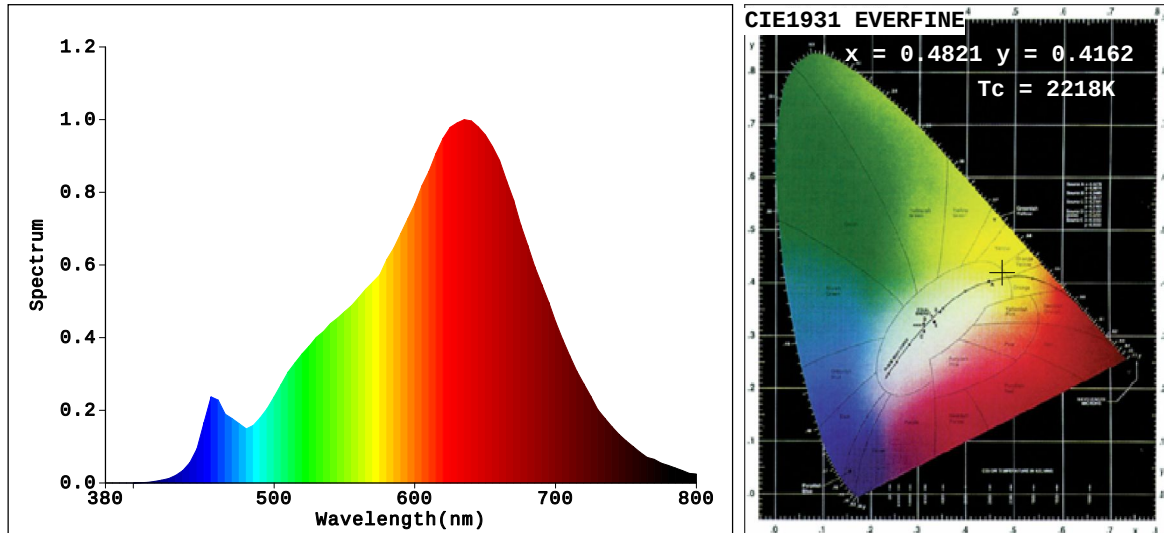
Product Type:ZL-C22-2W22E14C
Number:4
Temperature: deg
Test Operator:
Software:V2.00.100

Manufacturer:
Test Department:
Humidity:%
Test Date:2026-04-21 20:31:51
Instrument:PMS-80_V1 (SN:1009039)

Spectrophotocolorimeter Test Report

ZL-C22-2W22E14C

Light Source Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4821$ $y=0.4162$ / $u'=0.2743$ $v'=0.5328$
Tc=2218K Dominant WL:Ld=585.3nm Purity=69.7% Centroid WL:622.0nm
Ratio:R=30.9% G=67.2% B=1.9% Peak WL:Lp=635.0nm HWL:137.0nm
Render Index:Ra=97.5
R1 =99 R2 =100 R3 =98 R4 =99 R5 =99 R6 =98 R7 =96
R8 =92 R9 =92 R10=98 R11=98 R12=89 R13=100 R14=98 R15=96

Photo Parameters:

Flux: 152.28 lm Fe: 0.60361 W Efficacy:67.65 lm/W
LEVEL: WHITE:OUT

Electrical Parameters:

Luminaire: U=241.6V I=0.009467A P=2.251W PF=0.9840

Instrument Status:

Scan Range:380.0nm-800.0nm Interval:5.0nm[0]
REF=5256(R=4) %=-0.252%

Ip=40658(G=6,D=99)
PMT: 34.4 centigrade [37.2]

Product Type:ZL-C22-2W22E14C
Number:5
Temperature: deg
Test Operator:
Software:V2.00.100

Manufacturer:
Test Department:
Humidity:%
Test Date:2026-04-21 20:33:10
Instrument:PMS-80_V1 (SN:1009039)