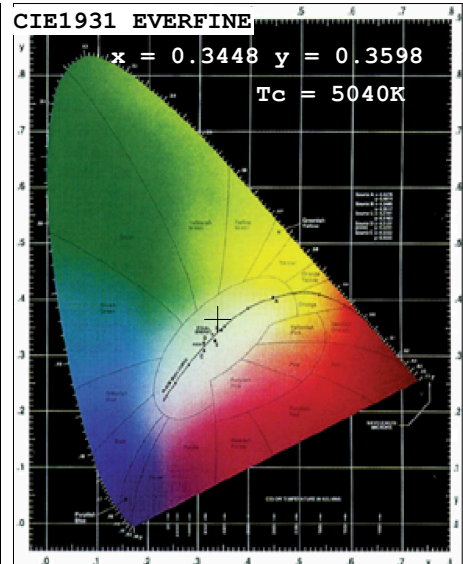
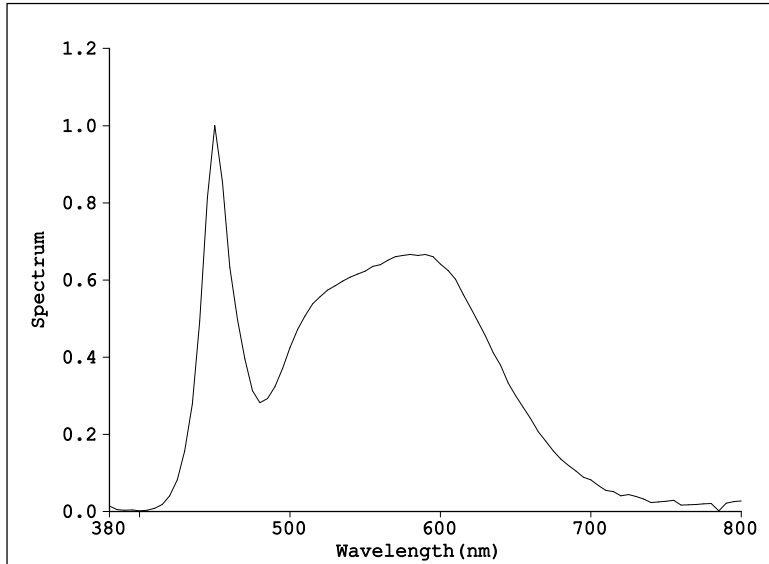


Light Source Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3448$ $y=0.3598$

Chromaticity Coordinate: $u'=0.3448$ $v'=0.3598$ ($duv=4.18e-03$)

$T_c=5040K$ Dominant WL: $L_d=568.5nm$ Purity=11.4% Centroid WL: 554.0nm

Ratio: R=16.7% G=79.1% B=4.2% Peak WL: $L_p=450.0nm$ HWL: 24.8nm

Render Index: $R_a=82.7$

R1 =80 R2 =88 R3 =93 R4 =83 R5 =82 R6 =84 R7 =87

R8 =65 R9 =2 R10=71 R11=82 R12=63 R13=82 R14=96 R15=74

Photo Parameters:

Flux: 2327.8 lm $F_e=6.9195W$ Efficacy: 120.5 lm/W

Electrical Parameters:

Luminaire: U=2.999V I=1.249A P=3.746W PF=1.000

Lamp : U=219.6V I=0.09115A P=19.32W PF=0.9651

Instrument Status:

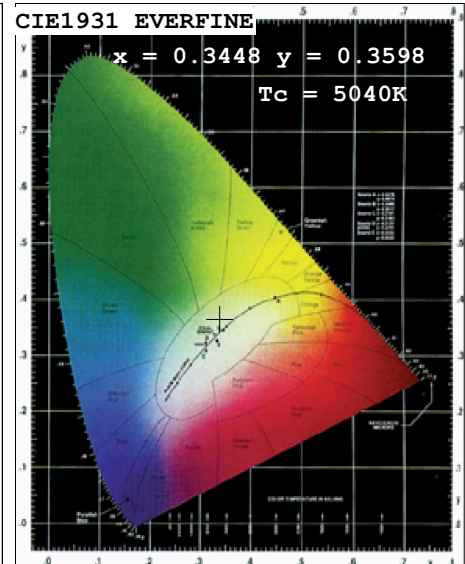
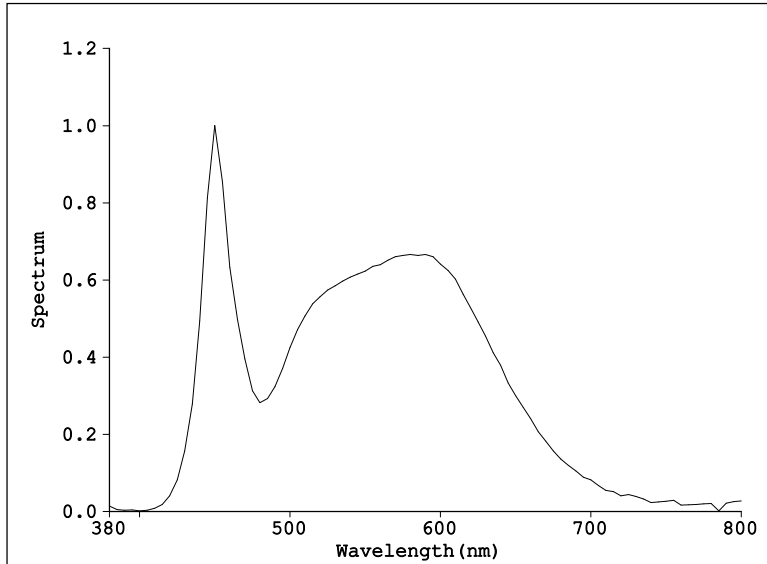
Scan Range: 380.0nm-800.0nm Interval: 5.0nm[0]
REF=34028 (R=3) %=0.141%

$I_p=907$ (G=2, D=52)
PMT: 29.1 centigrade [150.0]

Product Type: TF-20L6
Number: 1
Temperature: 26.8 deg
Test Operator: QC-01
Software: V2.00.122

Manufacturer:
Test Department:
Humidity: 70%
Test Date: 2017-03-30 20:10:24
Instrument: PMS-80_V1 (SN:11080027)

Light Source Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3448$ $y=0.3598$
Chromaticity Coordinate: $u'=0.3448$ $v'=0.3598$ ($duv=4.18e-03$)
 $T_c=5040K$ Dominant WL: $L_d=568.5nm$ Purity=11.4% Centroid WL: $554.0nm$
Ratio: $R=16.7\%$ $G=79.1\%$ $B=4.2\%$ Peak WL: $L_p=450.0nm$ HWL: $24.8nm$
Render Index: $R_a=82.7$

| | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|
| R1 =80 | R2 =88 | R3 =93 | R4 =83 | R5 =82 | R6 =84 | R7 =87 | |
| R8 =65 | R9 =2 | R10=71 | R11=82 | R12=63 | R13=82 | R14=96 | R15=74 |

Photo Parameters:

Flux: 2327.8 lm Fe: 6.9195 W Efficacy: 120.5 lm/W

Electrical Parameters:

Luminaire: U=2.999V I=1.249A P=3.746W PF=1.000
Lamp : U=219.6V I=0.09115A P=19.32W PF=0.9651

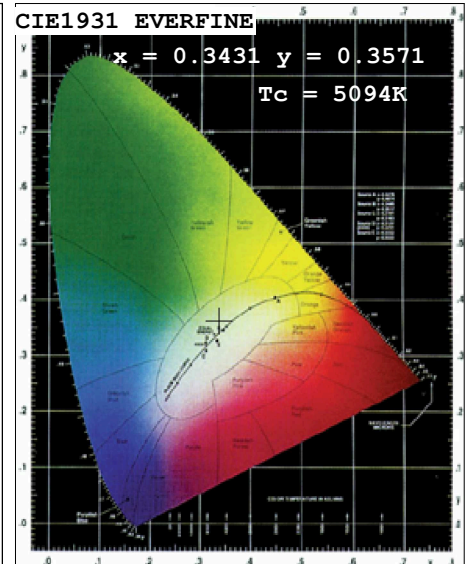
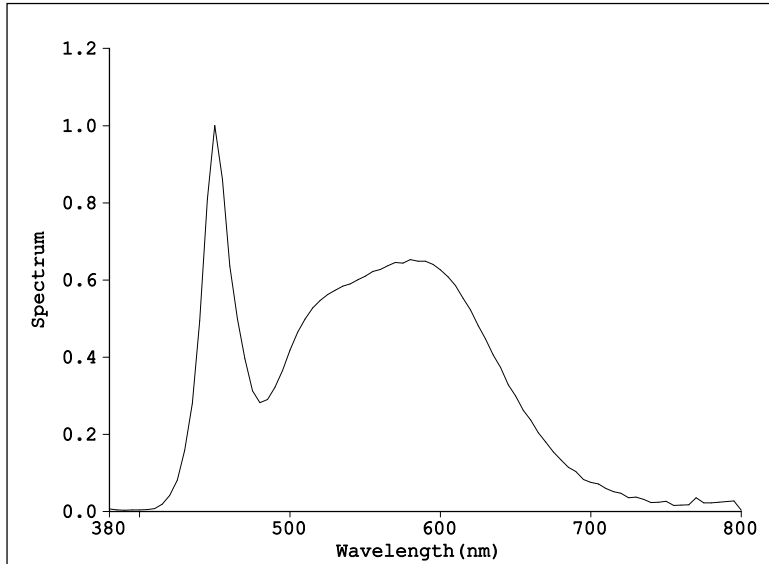
Instrument Status:

Scan Range: 380.0nm-800.0nm Interval: 5.0nm[0] $I_p=907$ ($G=2, D=52$)
REF=34028 (R=3) $\%=0.141\%$ PMT: 29.1 centigrade [150.0]

Product Type:
Number: 3
Temperature: 26.8 deg
Test Operator: QC-01
Software: V2.00.122

Manufacturer:
Test Department:
Humidity: 70%
Test Date: 2017-03-30 20:10:24
Instrument: PMS-80_V1 (SN: 11080027)

Light Source Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3431$ $y=0.3571$

Chromaticity Coordinate: $u'=0.3431$ $v'=0.3571$ ($duv=3.54e-03$)

$T_c=5094K$ Dominant WL: $L_d=568.0nm$ Purity=10.1% Centroid WL: $554.0nm$

Ratio: $R=16.8\%$ $G=79.0\%$ $B=4.3\%$ Peak WL: $L_p=450.0nm$ HWL: $24.9nm$

Render Index: $R_a=83.2$

$R_1 = 81$ $R_2 = 88$ $R_3 = 93$ $R_4 = 83$ $R_5 = 82$ $R_6 = 84$ $R_7 = 87$

$R_8 = 67$ $R_9 = 6$ $R_{10} = 72$ $R_{11} = 83$ $R_{12} = 63$ $R_{13} = 83$ $R_{14} = 96$ $R_{15} = 75$

Photo Parameters:

Flux: 2319.3 lm $F_e = 6.9415$ W Efficacy: 120.4 lm/W

Electrical Parameters:

Luminaire: $U=2.999V$ $I=1.249A$ $P=3.746W$ $PF=1.000$

Lamp : $U=219.9V$ $I=0.09083A$ $P=19.27W$ $PF=0.9645$

Instrument Status:

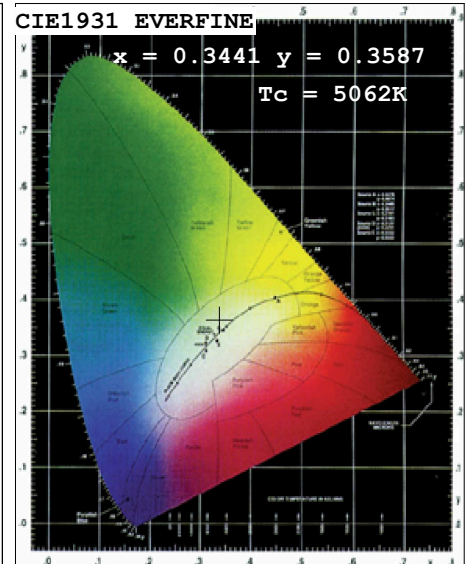
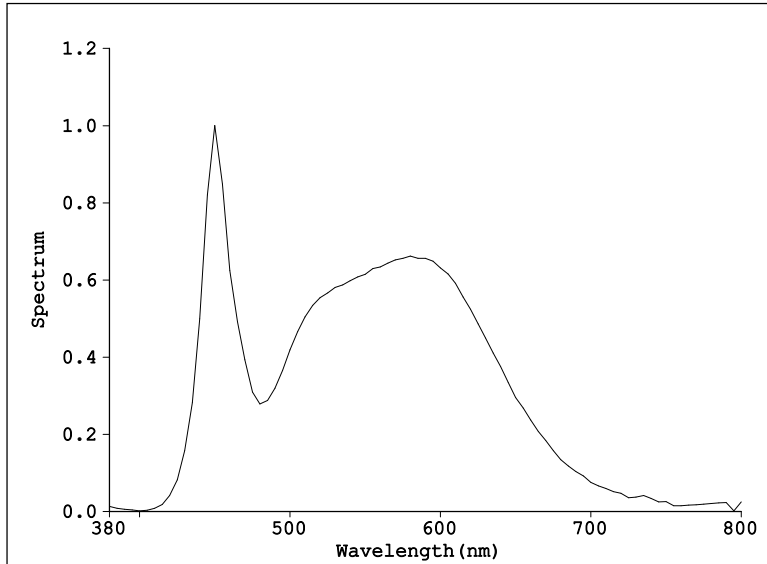
Scan Range: $380.0nm-800.0nm$ Interval: $5.0nm[0]$
 $REF=33894 (R=3)$ $\%=-0.177\%$

$I_p=922 (G=2, D=52)$
 $PMT: 29.2$ centigrade [150.0]

Product Type:
Number: 4
Temperature: 26.8 deg
Test Operator: QC-01
Software: V2.00.122

Manufacturer:
Test Department:
Humidity: 70%
Test Date: 2017-03-30 20:13:28
Instrument: PMS-80_V1 (SN: 11080027)

Light Source Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3441$ $y=0.3587$

Chromaticity Coordinate: $u'=0.3441$ $v'=0.3587$ ($duv=3.92e-03$)

$T_c=5062K$ Dominant WL: $L_d=568.3nm$ Purity=10.9% Centroid WL: $554.0nm$

Ratio: $R=16.7\%$ $G=79.1\%$ $B=4.2\%$ Peak WL: $L_p=450.0nm$ HWL: $24.7nm$

Render Index: $R_a=82.8$

$R_1 = 80$ $R_2 = 88$ $R_3 = 93$ $R_4 = 83$ $R_5 = 82$ $R_6 = 84$ $R_7 = 87$

$R_8 = 66$ $R_9 = 4$ $R_{10}=71$ $R_{11}=82$ $R_{12}=63$ $R_{13}=82$ $R_{14}=96$ $R_{15}=75$

Photo Parameters:

Flux: 2346.3 lm $F_e: 6.9980$ W Efficacy: 120.7 lm/W

Electrical Parameters:

Luminaire: $U=2.999V$ $I=1.249A$ $P=3.746W$ $PF=1.000$

Lamp : $U=219.6V$ $I=0.09157A$ $P=19.44W$ $PF=0.9663$

Instrument Status:

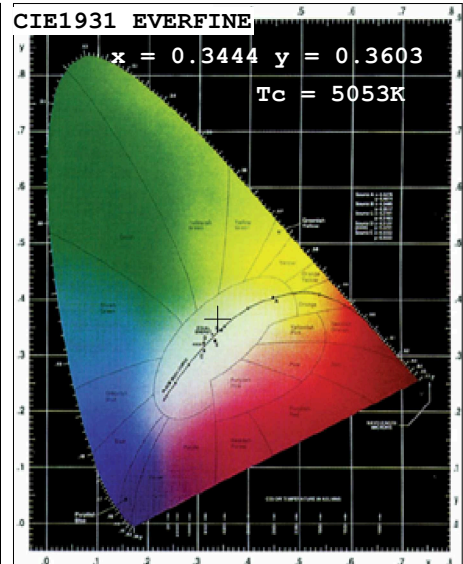
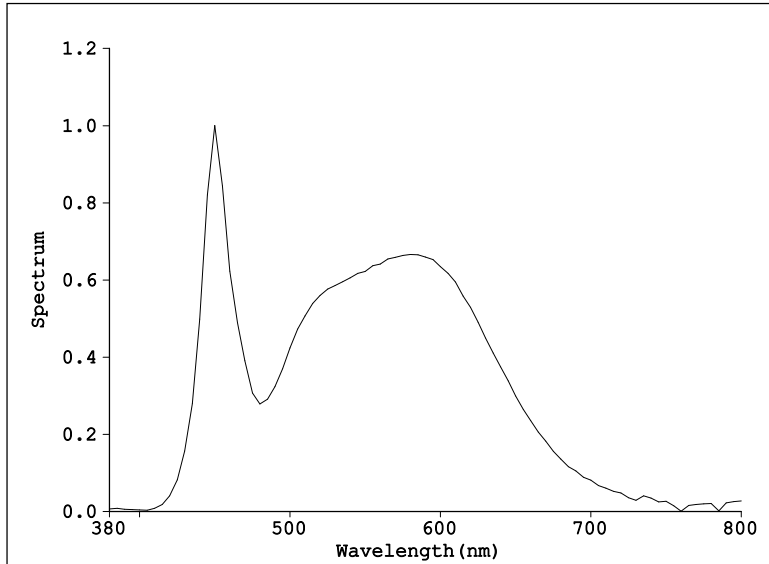
Scan Range: $380.0nm-800.0nm$ Interval: $5.0nm[0]$
REF=34308 (R=3) $\%=0.114\%$

$I_p=922$ ($G=2, D=52$)
PMT: 29.2 centigrade [150.0]

Product Type:
Number:5
Temperature: 26.8 deg
Test Operator: QC-01
Software: V2.00.122

Manufacturer:
Test Department:
Humidity: 70%
Test Date: 2017-03-30 20:16:00
Instrument: PMS-80_V1 (SN:11080027)

Light Source Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3444$ $y=0.3603$
Chromaticity Coordinate: $u'=0.3444$ $v'=0.3603$ ($duv=4.57e-03$)
 $T_c=5053K$ Dominant WL: $L_d=568.0nm$ Purity= 11.5% Centroid WL: $554.0nm$
Ratio: $R=16.6\%$ $G=79.2\%$ $B=4.2\%$ Peak WL: $L_p=450.0nm$ HWL: $24.6nm$
Render Index: $R_a=82.4$
 $R_1 =80$ $R_2 =87$ $R_3 =93$ $R_4 =82$ $R_5 =81$ $R_6 =83$ $R_7 =87$
 $R_8 =65$ $R_9 =2$ $R_{10}=71$ $R_{11}=82$ $R_{12}=62$ $R_{13}=82$ $R_{14}=96$ $R_{15}=74$

Photo Parameters:

Flux: 2322.7 lm $F_e=6.8908$ W Efficacy: 120.4 lm/W

Electrical Parameters:

Luminaire: $U=2.999V$ $I=1.249A$ $P=3.746W$ $PF=1.000$
Lamp : $U=219.9V$ $I=0.09095A$ $P=19.29W$ $PF=0.9644$

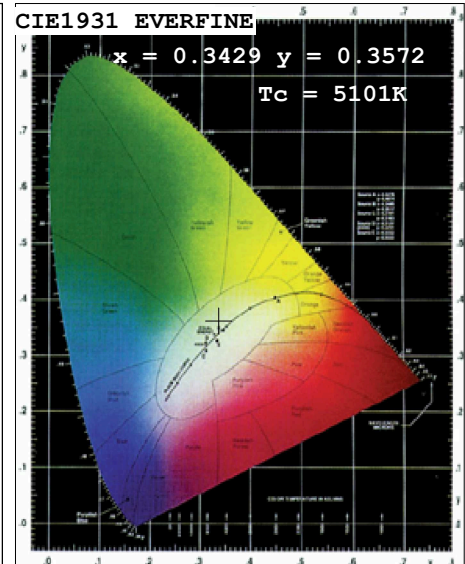
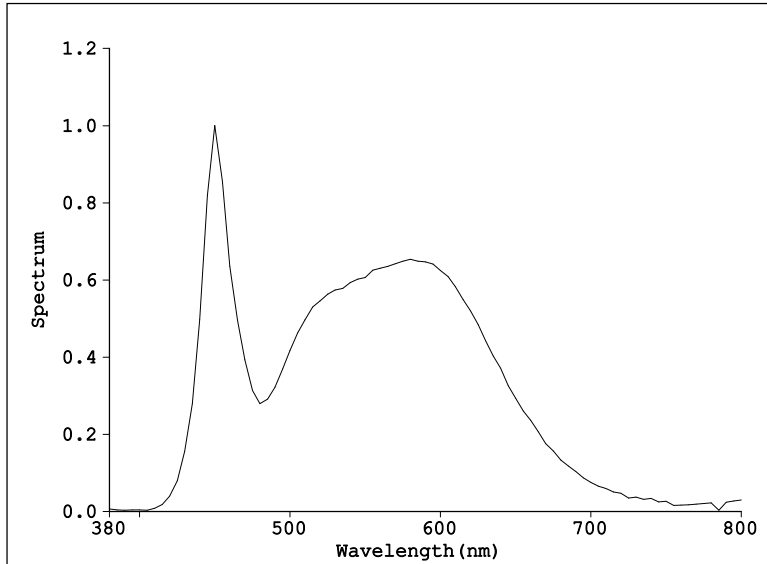
Instrument Status:

Scan Range: $380.0nm-800.0nm$ Interval: $5.0nm[0]$ $I_p=910(G=2,D=52)$
REF= $33947(R=3)$ $\%=0.136\%$ PMT: 29.1 centigrade [150.0]

Product Type:
Number:6
Temperature: 26.8 deg
Test Operator:QC-01
Software:V2.00.122

Manufacturer:
Test Department:
Humidity:70%
Test Date:2017-03-30 20:20:20
Instrument:PMS-80_V1 (SN:11080027)

Light Source Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3429$ $y=0.3572$

Chromaticity Coordinate: $u'=0.3429$ $v'=0.3572$ ($duv=3.67e-03$)

$T_c=5101K$ Dominant WL: $L_d=567.8nm$ Purity=10.1% Centroid WL: $554.0nm$

Ratio: $R=16.7\%$ $G=79.0\%$ $B=4.3\%$ Peak WL: $L_p=450.0nm$ HWL: $24.8nm$

Render Index: $R_a=83.0$

| | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|
| R1 =81 | R2 =88 | R3 =93 | R4 =83 | R5 =82 | R6 =84 | R7 =87 | |
| R8 =66 | R9 =5 | R10=72 | R11=82 | R12=63 | R13=83 | R14=96 | R15=75 |

Photo Parameters:

Flux: 2319.8 lm Fe: 6.9366 W Efficacy: 119.6 lm/W

Electrical Parameters:

Luminaire: U=2.999V I=1.249A P=3.746W PF=1.000

Lamp : U=219.9V I=0.09142A P=19.40W PF=0.9650

Instrument Status:

Scan Range: 380.0nm-800.0nm Interval: 5.0nm[0]
REF=33900 (R=3) %=-0.174%

$I_p=927$ ($G=2, D=52$)
PMT: 29.2 centigrade [150.0]

Product Type:
Number: 7
Temperature: 26.8 deg
Test Operator: QC-01
Software: V2.00.122

Manufacturer:
Test Department:
Humidity: 70%
Test Date: 2017-03-30 20:22:56
Instrument: PMS-80_V1 (SN: 11080027)