

Date : 2026-04-24
Test by : E.V.
Specification : AL-SL-NU-IP20-12-27K
Sample No. : 1

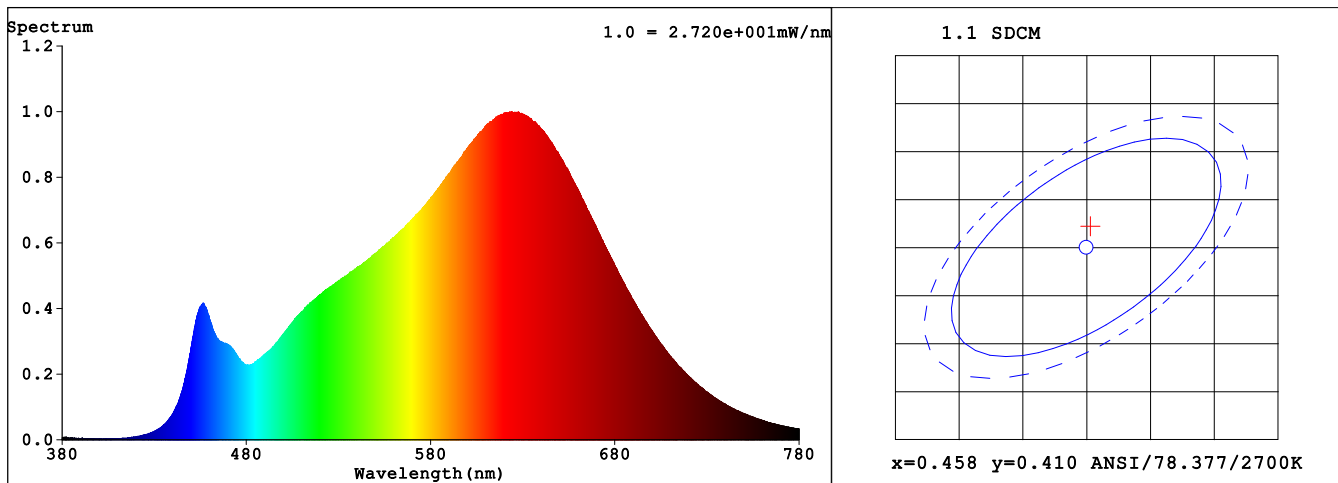
Sam. Status : Finished product test
Instrument : HaasSuite(EVERFINE)
Remark : 1M
Device SN : HS-2000

Test Condition

Temperature : 25Deg
WL Range : 380nm-780nm
Test Mode : Fast Test
Sensitivity : High

RH : 60.0%
IP : 53819 (82%)
T : 154 ms

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.4581$ $y = 0.4123$ / $u' = 0.2606$ $v' = 0.5277$ ($duv=4.93e-04$)

CCT= 2738K Prpc WL: Ld=583.8nm Purity=61.3%

Peak WL: Lp=624nm FWHM: =148.5nm Ratio:R=26.1% G=71.1% B=2.8%

Render Index: Ra = 94.0 CRI = 91.7 TM30:Rf=91 Rg=98

EI: 0.10618 A++ Highest

R1 =95 R2 =99 R3 =99 R4 =93 R5 =94 R6 =97 R7 =91

R8 =83 R9 =64 R10=96 R11=95 R12=83 R13=96 R14=100 R15=90

LEVEL:OUT WHITE:ANSI_2700K

Photometric & Radiometric Parameters

Flux = 1257.9 lm Eff.: 127.59 lm/W Fe = 4.4514 W

Electrical parameters

V = 12.00 V I = 0.8217 A P = 9.859 W PF = 1.000 F=0.00 Hz



Date : 2026-04-24
Test by : E.V.
Specification : AL-SL-NU-IP20-12-3K
Sample No. : 1

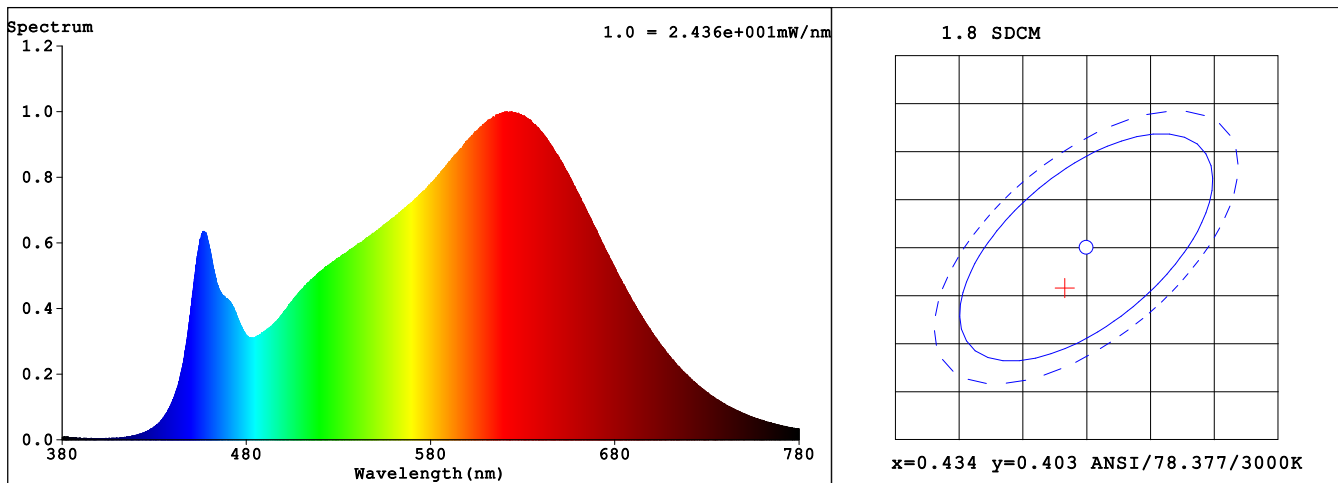
Sam. Status : Finished product test
Instrument : HaasSuite(EVERFINE)
Remark : 1M
Device SN : HS-2000

Test Condition

Temperature : 25Deg
WL Range : 380nm-780nm
Test Mode : Fast Test
Sensitivity : High

RH : 60.0%
IP : 52851 (81%)
T : 168 ms

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.4321$ $y = 0.3988$ / $u' = 0.2497$ $v' = 0.5186$ ($duv = -1.64e-03$)

CCT= 3039K Prpc WL: Ld=583.2nm Purity=49.4%

Peak WL: Lp=624nm FWHM: =164.2nm Ratio:R=24.3% G=72.3% B=3.5%

Render Index: Ra = 94.4 CRI = 92.8 TM30:Rf=91 Rg=99

EI: 0.10238 A++ Highest

R1 =97 R2 =99 R3 =97 R4 =94 R5 =96 R6 =96 R7 =91

R8 =86 R9 =71 R10=99 R11=95 R12=80 R13=98 R14=100 R15=93

LEVEL:OUT WHITE:ANSI_3000K

Photometric & Radiometric Parameters

Flux = 1217.2 lm Eff. : 131.60 lm/W Fe = 4.2936 W

Electrical parameters

V = 12.00 V I = 0.7709 A P = 9.249 W PF = 1.000 F=0.00 Hz



Date : 2026-04-24
Test by : E.V.
Specification : AL-SL-NU-IP20-12-4K
Sample No. : 1

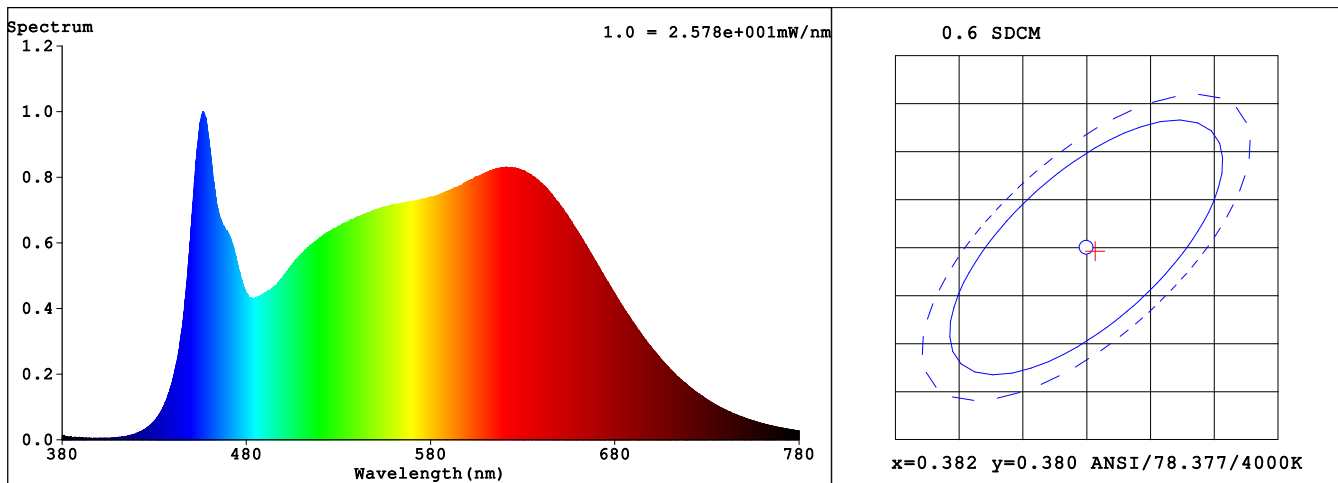
Sam. Status : Finished product test
Instrument : HaasSuite(EVERFINE)
Remark : 1M
Device SN : HS-2000

Test Condition

Temperature : 25Deg
WL Range : 380nm-780nm
Test Mode : Fast Test
Sensitivity : High

RH : 60.0%
IP : 55515 (85%)
T : 199 ms

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.3825$ $y = 0.3793$ / $u' = 0.2254$ $v' = 0.5030$ ($duv=7.42e-04$)

CCT= 3964K Prpc WL: Ld=578.9nm Purity=28.6%

Peak WL: Lp=457nm FWHM: =28.8nm Ratio:R=20.1% G=75.1% B=4.8%

Render Index: Ra = 95.0 CRI = 93.2 TM30:Rf=91 Rg=97

EI: 0.09759 A++ Highest

R1 =97 R2 =99 R3 =99 R4 =92 R5 =94 R6 =96 R7 =93

R8 =90 R9 =82 R10=98 R11=94 R12=71 R13=99 R14=100 R15=94

LEVEL:OUT WHITE:ANSI_4000K

Photometric & Radiometric Parameters

Flux = 1306.7 lm Eff.: 139.59 lm/W Fe = 4.5767 W

Electrical parameters

V = 12.00 V I = 0.7802 A P = 9.361 W PF = 1.000 F=0.00 Hz



Date : 2026-04-24
Test by : E.V.
Specification : AL-SL-NU-IP20-12-6K
Sample No. : 1

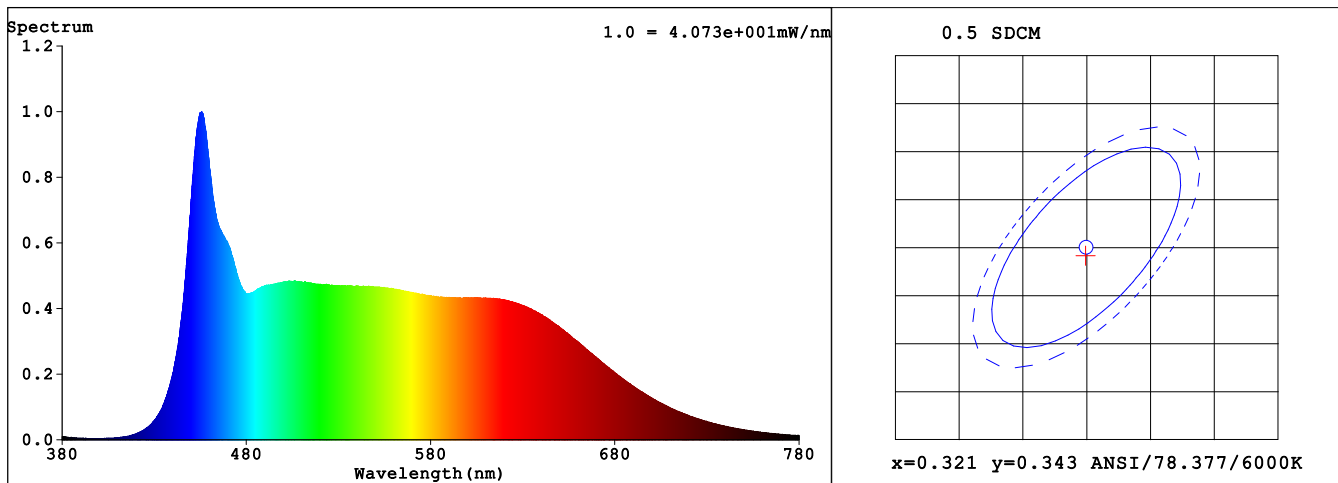
Sam. Status : Finished product test
Instrument : HaasSuite(EVERFINE)
Remark : 1M
Device SN : HS-2000

Test Condition

Temperature : 25Deg
WL Range : 380nm-780nm
Test Mode : Fast Test
Sensitivity : High

RH : 60.0%
IP : 53473 (82%)
T : 199 ms

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.3209$ $y = 0.3417$ / $u' = 0.1988$ $v' = 0.4761$ ($duv=5.58e-03$)

CCT= 6022K Prpc WL: Ld=500.6nm Purity=3.8%

Peak WL: Lp=456nm FWHM: =28.3nm Ratio:R=15.9% G=76.6% B=7.5%

Render Index: Ra = 92.9 CRI = 91.6 TM30:Rf=90 Rg=97

EI: 0.09690 A++ Highest

R1 =97 R2 =97 R3 =94 R4 =89 R5 =94 R6 =96 R7 =89

R8 =88 R9 =84 R10=93 R11=93 R12=72 R13=98 R14=97 R15=93

LEVEL:OUT WHITE:ANSI_6500K

Photometric & Radiometric Parameters

Flux = 1344.7 lm Eff.: 140.59 lm/W Fe = 4.8068 W

Electrical parameters

V = 12.00 V I = 0.7972 A P = 9.565 W PF = 1.000 F=0.00 Hz



Date : 2026-04-24
Test by : E.V.
Specification : AL-SL-NU-IP20-12-BL
Sample No. : 1

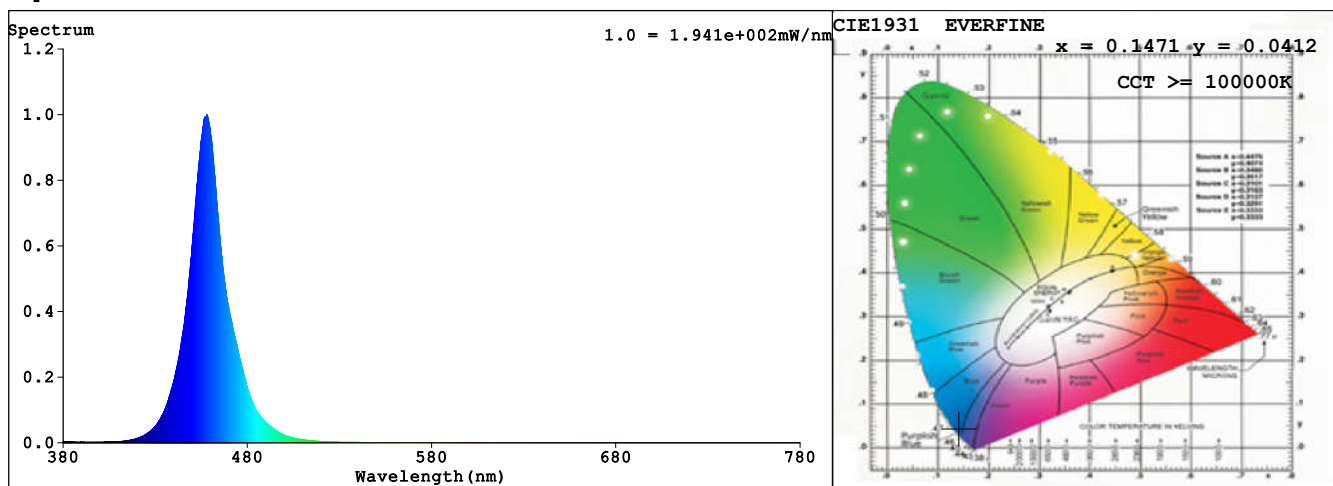
Sam. Status : Finished product test
Instrument : HaasSuite(EVERFINE)
Remark : 1M
Device SN : HS-2000

Test Condition

Temperature : 25Deg
WL Range : 380nm-780nm
Test Mode : Fast Test
Sensitivity : High

RH : 60.0%
IP : 55780 (85%)
T : 42 ms

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.1471$ $y = 0.0412$ / $u' = 0.1839$ $v' = 0.1159$ ($duv = -1.91e-01$)

CCT>=100000K Prpc WL: Ld=461.5nm Purity=97.1%

Peak WL: Lp=458nm FWHM: =19.0nm Ratio:R=0.4% G=10.5% B=89.1%

Render Index: Ra = 0.1 CRI = 0.1 TM30:Rf=0 Rg=31

EI: 0.36770 B

R1=0 R2=0 R3=0 R4=0 R5=1 R6=0 R7=0

R8=0 R9=0 R10=0 R11=0 R12=0 R13=0 R14=0 R15=0

LEVEL:OUT WHITE:OUT

Photometric & Radiometric Parameters

Flux = 239.78 lm Eff.: 25.70 lm/W Fe = 4.8219 W

Electrical parameters

V = 12.00 V I = 0.7777 A P = 9.331 W PF = 1.000 F=0.00 Hz



Date : 2026-04-24
Test by : E.V.
Specification : AL-SL-NU-IP20-12-GN
Sample No. : 1

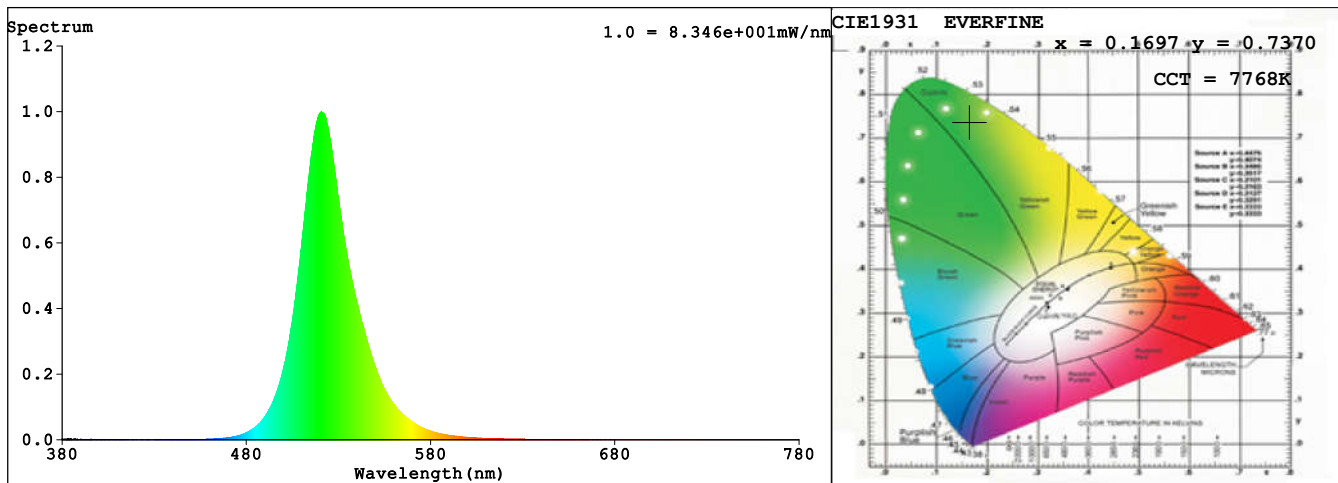
Sam. Status : Finished product test
Instrument : HaasSuite(EVERFINE)
Remark : 1M
Device SN : HS-2000

Test Condition

Temperature : 25Deg
WL Range : 380nm-780nm
Test Mode : Fast Test
Sensitivity : High

RH : 60.0%
IP : 51632 (79%)
T : 54 ms

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.1697$ $y = 0.7370$ / $u' = 0.0590$ $v' = 0.5766$ ($duv=1.60e-01$)

CCT= 7768K Prcp WL: Ld=527.9nm Purity=83.8%

Peak WL: Lp=521nm FWHM: =28.7nm Ratio:R=0.2% G=98.2% B=1.6%

Render Index: Ra = 0.0 CRI = 2.4 TM30:Rf=1 Rg=6

EEL: 0.08703 A++ Highest

R1=0 R2=0 R3=0 R4=0 R5=0 R6=0 R7=0
R8=0 R9=0 R10=0 R11=0 R12=0 R13=0 R14=37 R15=0
LEVEL:OUT WHITE:OUT

Photometric & Radiometric Parameters

Flux = 1451.5 lm Eff.: 156.53 lm/W Fe = 2.9239 W

Electrical parameters

V = 12.00 V I = 0.7729 A P = 9.273 W PF = 1.000 F=0.00 Hz

 EVERFINE

Date : 2026-04-24
Test by : E.V.
Specification : AL-SL-NU-IP20-12-RD
Sample No. : 1

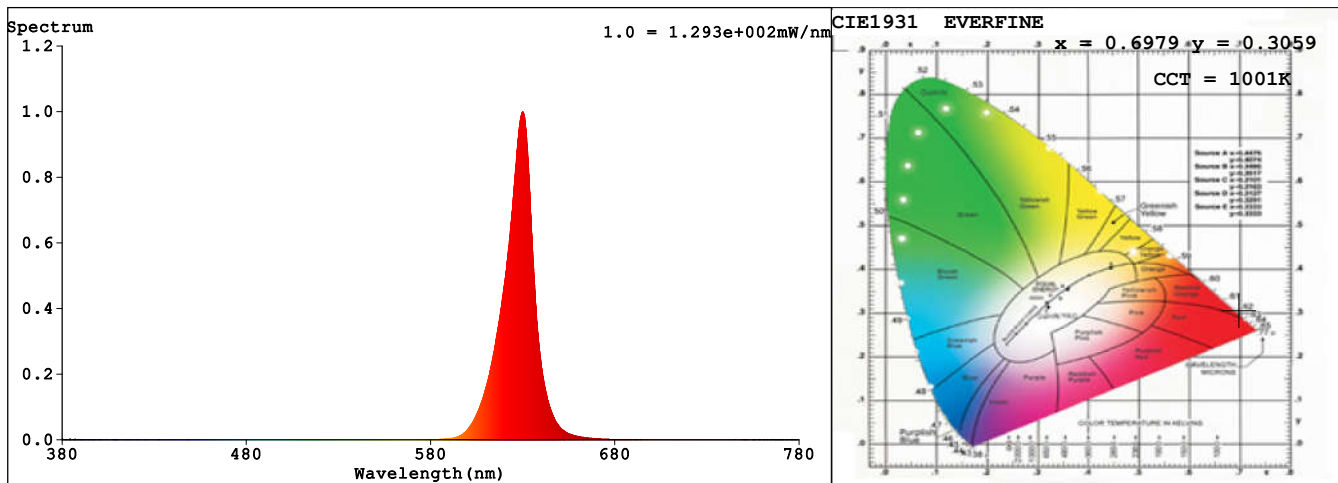
Sam. Status : Finished product test
Instrument : HaasSuite(EVERFINE)
Remark : 1M
Device SN : HS-2000

Test Condition

Temperature : 25Deg
WL Range : 380nm-780nm
Test Mode : Fast Test
Sensitivity : High

RH : 60.0%
IP : 46742 (71%)
T : 29 ms

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.6979$ $y = 0.3059$ / $u' = 0.5292$ $v' = 0.5219$ ($duv = -8.07e-02$)

CCT= 1001K Prcp WL: $L_d = 621.1nm$ Purity=100.0%

Peak WL: $L_p = 630nm$ FWHM: $\approx 15.5nm$ Ratio: R=98.3% G=1.7% B=0.0%

Render Index: $R_a = 24.3$ CRI = 28.5 TM30: $R_f = 0$ $R_g = 0$

EI: 0.20482 A

R1=2 R2=78 R3=24 R4=0 R5=0 R6=90 R7=0
R8=0 R9=0 R10=71 R11=0 R12=79 R13=27 R14=56 R15=0
LEVEL:OUT WHITE:OUT

Photometric & Radiometric Parameters

Flux = 511.99 lm Eff. : 55.55 lm/W $F_e = 2.4687 W$

Electrical parameters

V = 12.00 V I = 0.7682 A P = 9.217 W PF = 1.000 F=0.00 Hz



Date : 2026-04-24
Test by : E.V.
Specification : AL-SL-NU-IP20-12-YW
Sample No. : 1

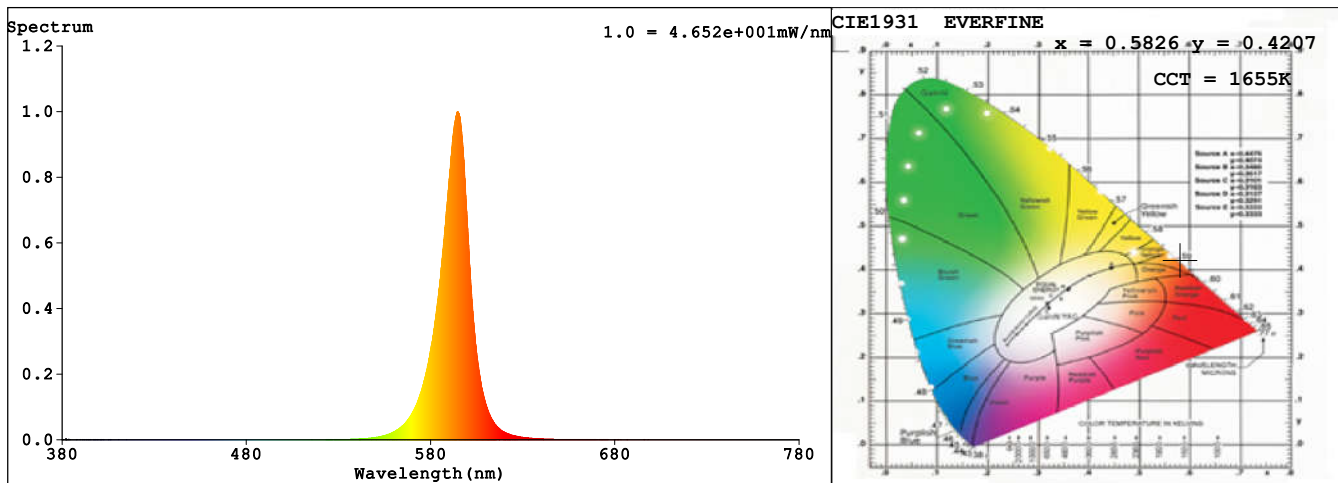
Sam. Status : Finished product test
Instrument : HaasSuite(EVERFINE)
Remark : 1M
Device SN : HS-2000

Test Condition

Temperature : 25Deg
WL Range : 380nm-780nm
Test Mode : Fast Test
Sensitivity : High

RH : 60.0%
IP : 48566 (74%)
T : 82 ms

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.5826$ $y = 0.4207$ / $u' = 0.3386$ $v' = 0.5501$ ($duv=5.55e-03$)

CCT= 1655K Prcp WL: $L_d=590.8nm$ Purity=100.0%

Peak WL: $L_p=595nm$ FWHM: $=16.2nm$ Ratio:R=15.9% G=84.0% B=0.0%

Render Index: $R_a = 12.9$ CRI = 11.5 TM30:Rf=1 Rg=3

EI: 0.23445 A

R1=0 R2=49 R3=19 R4=0 R5=0 R6=35 R7=0
R8=0 R9=0 R10=23 R11=0 R12=0 R13=0 R14=47 R15=0
LEVEL:OUT WHITE:OUT

Photometric & Radiometric Parameters

Flux = 457.67 lm Eff. : 47.32 lm/W $\Phi_e = 931.30$ mW

Electrical parameters

V = 12.00 V I = 0.8061 A P = 9.672 W PF = 1.000 F=0.00 Hz

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