

Date : 2026-01-30
 Test by : E.V.
 Specification : AL-SL-PM-IP20-24-RGBCCT
 Sample No. : 1

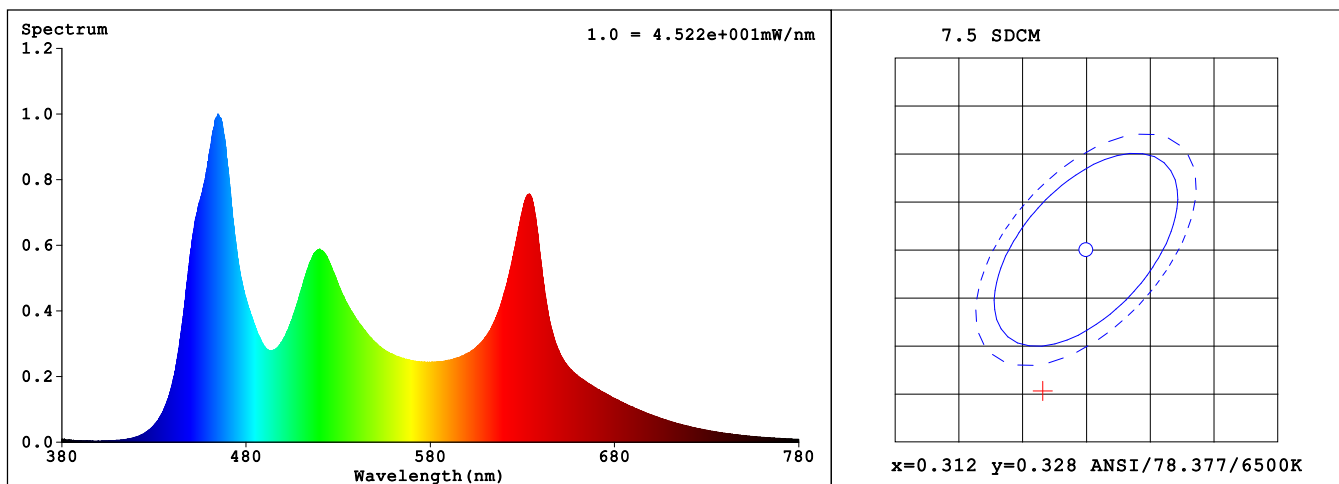
Sam. Status : First Sample Test
 Instrument : HaasSuite(EVERFINE)
 Remark : 1M
 Device SN : HS-2000

Test Condition

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

RH : 60.0%
 IP : 58874 (90%)
 T : 140 ms

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.3089$ $y = 0.3135$ / $u' = 0.2011$ $v' = 0.4592$ ($duv = -2.20e-03$)

CCT= 6878K Prcp WL: $L_d = 480.3 \text{ nm}$ Purity=10.0%

Peak WL: $L_p = 465 \text{ nm}$ FWHM: $= 29.0 \text{ nm}$ Ratio: R=19.8% G=72.0% B=8.2%

Render Index: $R_a = 73.5$ CRI = 66.3 TM30: $R_f = 79$ $R_g = 109$

EEL: 0.17002 A

R1 =64 R2 =79 R3 =92 R4 =72 R5 =72 R6 =76 R7 =81

R8 =52 R9 =0 R10=56 R11=66 R12=69 R13=66 R14=93 R15=56

LEVEL:OUT WHITE:ANSI_6500K

Photometric & Radiometric Parameters

Flux = 1186.1 lm Eff.: 78.89 lm/W $F_e = 4.6608 \text{ W}$

Electrical Parameters

V = 24.00 V I = 0.6265 A P = 15.03 W PF = 1.000 F=0.00 Hz



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 Sample No. : 2

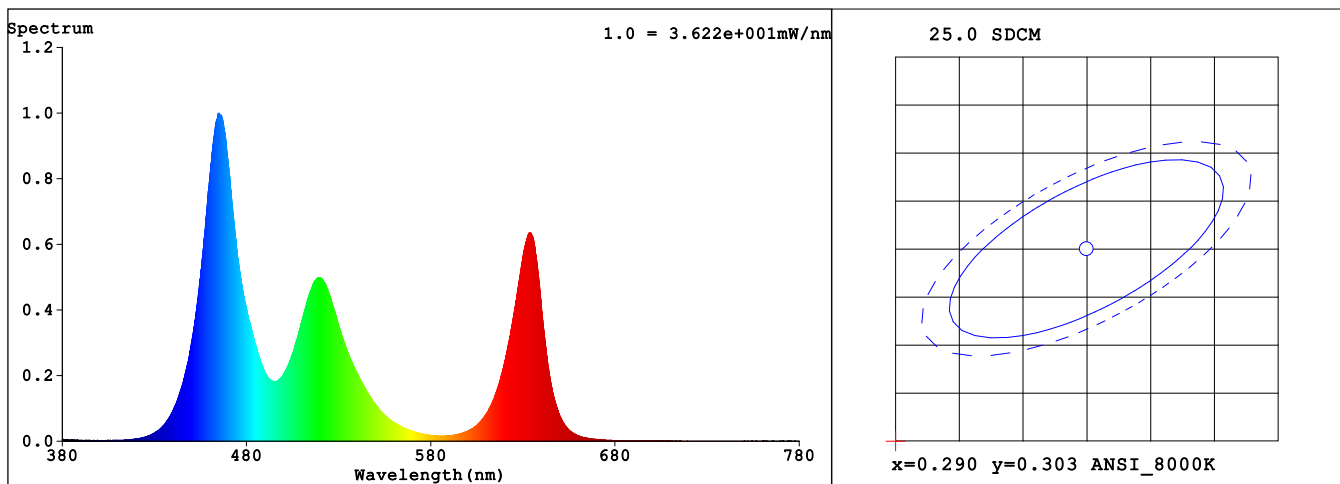
Sam. Status : First Sample Test
 Instrument : HaasSuite(EVERFINE)
 Remark : 1M
 Device SN : HS-2000

Test Condition

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

RH : 60.0%
 IP : 53463 (82%)
 T : 189 ms

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.2397$ $y = 0.2622$ / $u' = 0.1692$ $v' = 0.4164$ ($duv=1.55e-02$)
 CCT= 26340K Prcp WL: Ld=481.1nm Purity=37.9%
 Peak WL: Lp=465nm FWHM: =21.8nm Ratio:R=19.2% G=67.2% B=13.5%
 Render Index: Ra = 54.2 CRI = 47.9 TM30:Rf=51 Rg=108

EEL: 0.21349 A

R1 =44 R2 =63 R3 =73 R4 =63 R5 =64 R6 =62 R7 =57
 R8 =7 R9 =0 R10=13 R11=59 R12=66 R13=44 R14=81 R15=22
 LEVEL:OUT WHITE:OUT

Photometric & Radiometric Parameters

Flux = 482.53 lm Eff. : 52.59 lm/W Fe = 2.1704 W

Electrical Parameters

V = 24.00 V I = 0.3823 A P = 9.174 W PF = 1.000 F=0.00 Hz



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 Sample No. : 3

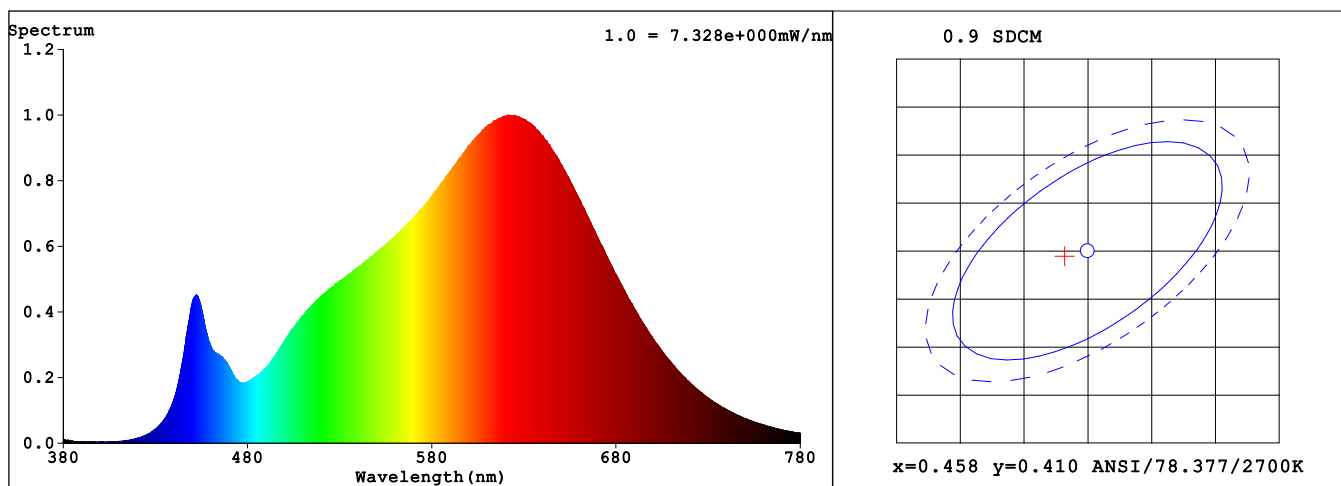
Sam. Status : First Sample Test
 Instrument : HaasSuite(EVERFINE)
 Remark : 1M
 Device SN : HS-2000

Test Condition

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

RH : 60.0%
 IP : 52700 (80%)
 T : 561 ms

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.4560$ $y = 0.4095$ / $u' = 0.2605$ $v' = 0.5264$ ($duv = -3.48e-04$)
 CCT= 2747K Prcp WL: Ld=584.0nm Purity=59.8%
 Peak WL: Lp=621nm FWHM: =149.9nm Ratio:R=25.8% G=71.7% B=2.5%
 Render Index: Ra = 92.7 CRI = 89.8 TM30:Rf=91 Rg=100

EEL: 0.08949 A++ Highest

R1 =93 R2 =96 R3 =98 R4 =93 R5 =93 R6 =96 R7 =92
 R8 =81 R9 =58 R10=91 R11=94 R12=82 R13=94 R14=98 R15=89
 LEVEL:OUT WHITE:ANSI_2700K

Photometric & Radiometric Parameters

Flux = 342.80 lm Eff. : 115.76 lm/W Fe = 1.1971 W

Electrical Parameters

V = 24.00 V I = 0.1234 A P = 2.961 W PF = 1.000 F=0.00 Hz



Date : 2026-01-30
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 Specification : AL-SL-PM-IP20-24-RGBCCT
 Sample No. : 4

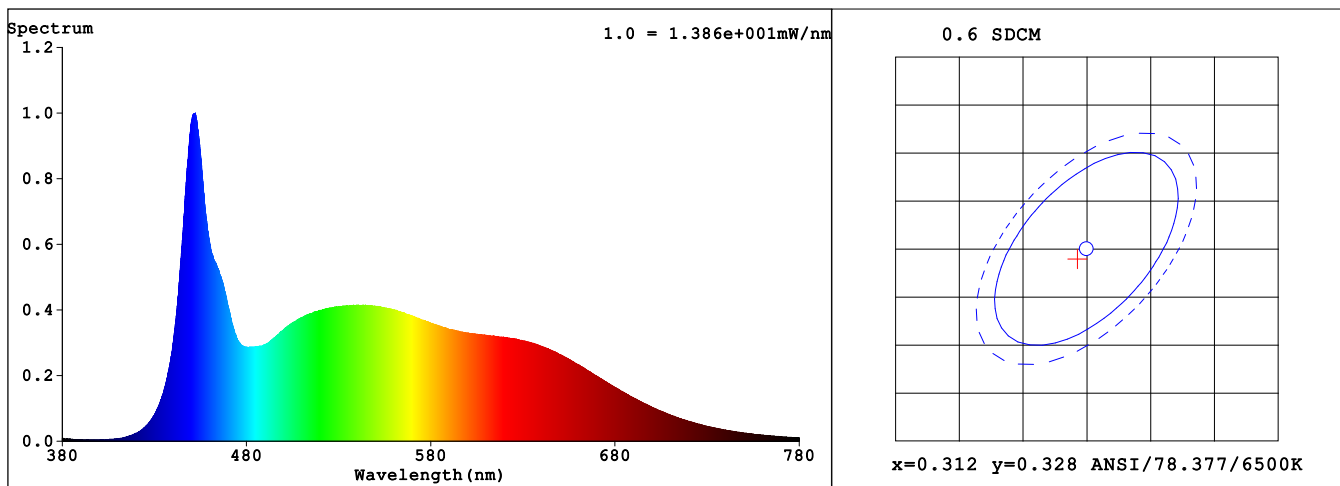
Sam. Status : First Sample Test
 Instrument : HaasSuite(EVERFINE)
 Remark : 1M
 Device SN : HS-2000

Test Condition

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

RH : 60.0%
 IP : 47856 (73%)
 T : 561 ms

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.3116$ $y = 0.3272$ / $u' = 0.1977$ $v' = 0.4672$ ($duv=3.54e-03$)
 CCT= 6581K Prcp WL: Ld=488.0nm Purity=7.8%
 Peak WL: Lp=452nm FWHM: =22.5nm Ratio:R=14.6% G=78.8% B=6.6%
 Render Index: Ra = 92.8 CRI = 89.5 TM30:Rf=91 Rg=98

EEL: 0.08671 A++ Highest

R1 =93 R2 =95 R3 =94 R4 =92 R5 =91 R6 =90 R7 =96
 R8 =91 R9 =75 R10=87 R11=91 R12=64 R13=94 R14=97 R15=92
 LEVEL:OUT WHITE:ANSI_6500K

Photometric & Radiometric Parameters

Flux = 375.14 lm Eff. : 122.13 lm/W Fe = 1.3485 W

Electrical Parameters

V = 24.00 V I = 0.1280 A P = 3.072 W PF = 1.000 F=0.00 Hz



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 Sample No. : 5

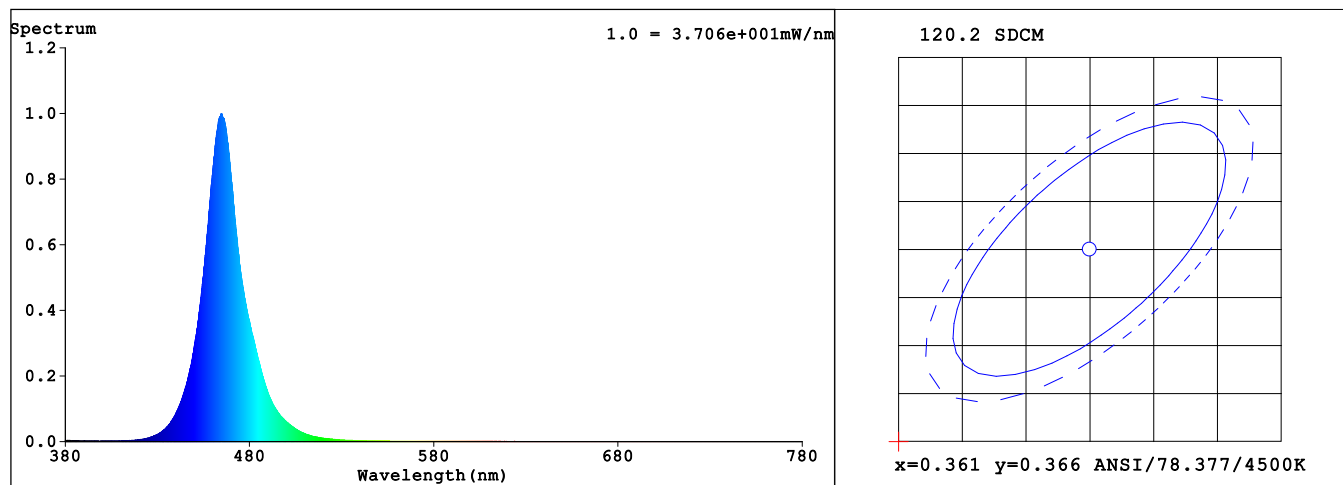
Sam. Status : First Sample Test
 Instrument : HaasSuite(EVERFINE)
 Remark : 1M
 Device SN : HS-2000

Test Condition

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

RH : 60.0%
 IP : 53453 (82%)
 T : 200 ms

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.1363$ $y = 0.0638$ / $u' = 0.1561$ $v' = 0.1643$ ($duv = -1.61e-01$)
 CCT >= 100000K Prcp WL: Ld=468.6nm Purity=95.8%
 Peak WL: Lp=465nm FWHM: =20.8nm Ratio:R=0.3% G=15.6% B=84.1%
 Render Index: Ra = 0.2 CRI = 0.1 TM30:Rf=0 Rg=-70

EEL: 0.27694 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 = 68.427 lm Eff. : 23.24 lm/W Fe = 989.08 mW

Electrical Parameters

V = 24.00 V I = 0.1227 A P = 2.945 W PF = 1.000 F=0.00 Hz



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Specification : AL-SL-PM-IP20-24-RGBCCT
Sample No. : 6

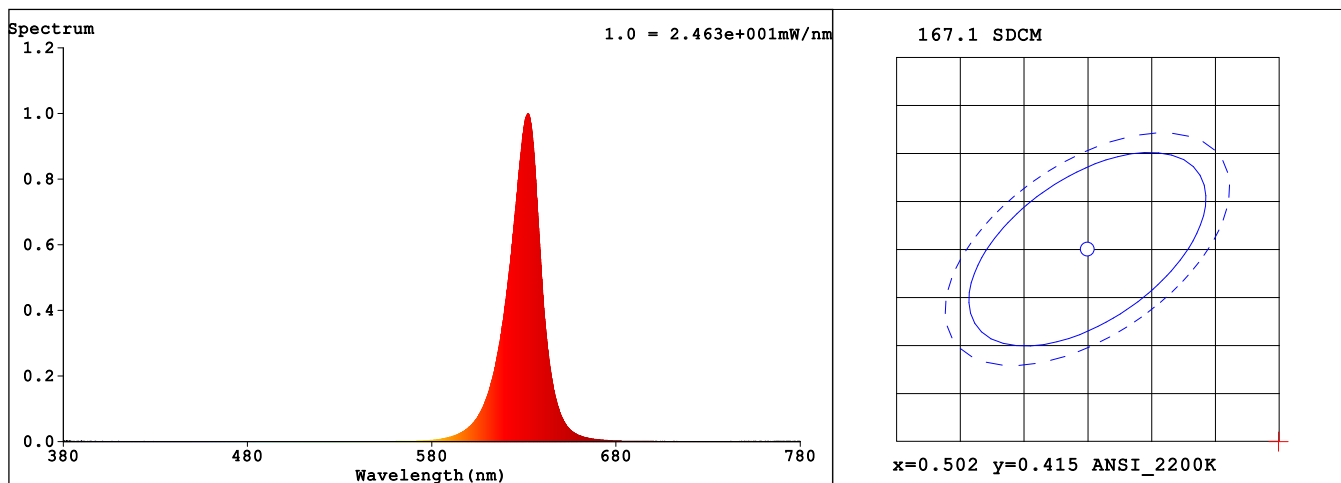
Sam. Status : First Sample Test
Instrument : HaasSuite(EVERFINE)
Remark : 1M
Device SN : HS-2000

Test Condition

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

RH : 60.0%
IP : 53123 (81%)
T : 175 ms

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.6983$ $y = 0.3056$ / $u' = 0.5299$ $v' = 0.5218$ ($duv = -8.14e-02$)

CCT= 1001K Prcp WL: Ld=621.2nm Purity=100.0%

Peak WL: Lp=632nm FWHM: =18.0nm Ratio:R=95.9% G=4.1% B=0.0%

Render Index: Ra = 27.1 CRI = 30.6 TM30:Rf=0 Rg=0

EEL: 0.20852 A

R1 =8 R2 =78 R3 =32 R4 =0 R5 =3 R6 =89 R7 =8
R8 =0 R9 =0 R10=72 R11=0 R12=79 R13=30 R14=60 R15=0
LEVEL:OUT WHITE:OUT

Photometric & Radiometric Parameters

Flux = 103.93 lm Eff. : 35.44 lm/W Fe = 534.91 mW

Electrical Parameters

V = 24.00 V I = 0.1222 A P = 2.933 W PF = 1.000 F=0.00 Hz



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 Sample No. : 7

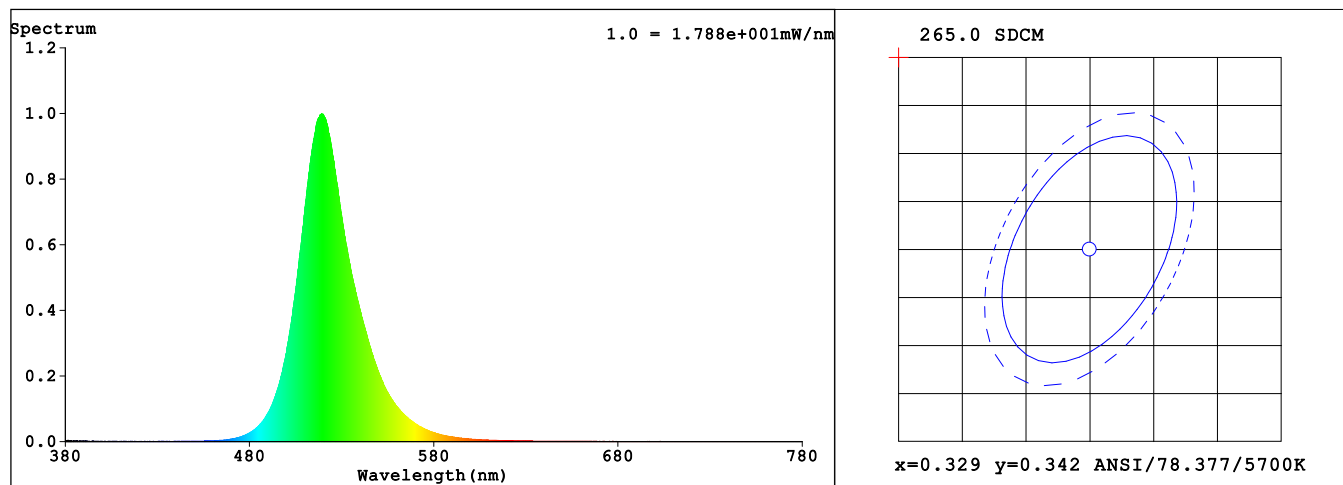
Sam. Status : First Sample Test
 Instrument : HaasSuite(EVERFINE)
 Remark : 1M
 Device SN : HS-2000

Test Condition

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

RH : 60.0%
 IP : 5355 (81%)
 T : 262 ms

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.1639$ $y = 0.7309$ / $u' = 0.0573$ $v' = 0.5749$ ($duv=1.60e-01$)
 CCT= 7892K Prcp WL: Ld=526.4nm Purity=81.5%
 Peak WL: Lp=519nm FWHM: =30.0nm Ratio:R=0.2% G=97.7% B=2.0%
 Render Index: Ra = 0.0 CRI = 2.5 TM30:Rf=1 Rg=7

EEL: 0.09782 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 = 312.41 lm Eff. : 103.48 lm/W Fe = 648.24 mW

Electrical Parameters

V = 24.00 V I = 0.1258 A P = 3.019 W PF = 1.000 F=0.00 Hz

