

The Light You Can Trust



@wipintertrade



Official Website



Gems Color Grading Cabinet

Series : GemoLED Pro



Model : Gemo-S001 | Part No. : WDS-C02



Products of Thailand

Eff. Date 15/10/24
Rev.0

Gems Color Grading Cabinet



Series : GemoLED Pro Model : Gemo-S001

Light source for the colour grading of gemstone was developed in a collaboration between GIT (Gem and Jewelry Institute of Thailand.) and WIP (W.I.P. Electric Co.,Ltd)

In contrast to many of the models on the market, the new light source uses state-of-the-art LED (Light Emitting Diode) lights under specification of GIT Standard “Jewelry and precious metals – Grading polished diamonds – Terminology, classification and test methods” and, unlike most commercially available instruments.

FEATURES

- Available in 6500K, 5700K, 5000K
- 98+ CRI and R9 > 95
- Flicker free
- Easy to operate by individual switch for each light source
- Economic power consumption and low heat generation
- More than 50,000 hours lifetime and 2 years warranty



PHOTOMETRIC SPECIFICATIONS

LED :	Nichia
CRI :	98+
R9 :	95+
LED Lifetime (L70) :	50,000 hours
Light distribution :	160°

MECHANICAL SPECIFICATIONS

Enclosure material :	Aluminum with Powder Coating
Viewing area (H x W x D) :	15 cm x 31cm x 14 cm
Product dimension (H x W x D) :	26 cm x 31 cm x 19cm
Weight :	3.7Kg.
Warranty :	1 Year

ELECTRICAL SPECIFICATIONS

Lamp base :	G5 Bi-pin
Power :	18W (Max)
Input voltage :	220 - 240 VAC
Input frequency :	50 - 60 Hz.
Power factor :	>0.95
THDi :	<20%
Flicker Free :	Yes
Surge Protection :	10KV

Model	Part No.	Power	TC
Gemo-S001	WDS-C02	18W (Max)	6500K, 5700K, 5000K

TECHNICAL SPECIFICATIONS

Illuminants :	Daylight 6500K CRI98+ Noon Sky Daylight 5700K CRI98+ Noon Sky Daylight 5000K CRI98+
Control output :	3 Relays SPDT Contract Rating 5A/250Vac (resistive load)
Operating Temperature :	0 °C to +50 °C
Humidity tolerance:	0-90% w/o condensation

LED Driver Standard	
TIS. 1955-2551	
EN61347-1	
EN61347-2-13	
EN62384	
EN55015	
EN61000-3-2	
EN61000-3-3	
EN61547	

CONTROLLER



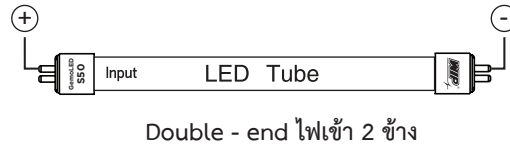
Part No.	Symbol of Sources	Lamp Size (T8 Lamps)	Power	Lux (Center)	CRI	Beam Angle	Description
T8S65-6		42 cm. (20 In.)	6W	4821 lux	98+	160°	D65 (Daylight 6500K) CRI98+
T8S57-6		42 cm. (20 In.)	6W	4766 lux	98+	160°	D57 (Noon Sky Daylight 5700K) CRI98+
T8S50-6	D50	42 cm. (20 In.)	6W	4857 lux	98+	160°	D50 (Noon Sky Daylight 5700K) CRI98+

Gems Color Grading Cabinet

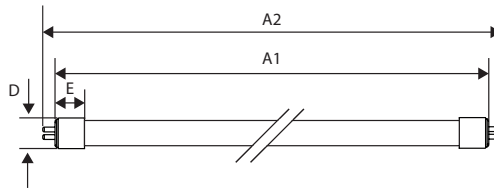
Series : GemoLED Pro Model : Gemo-S001



Wiring Diagram

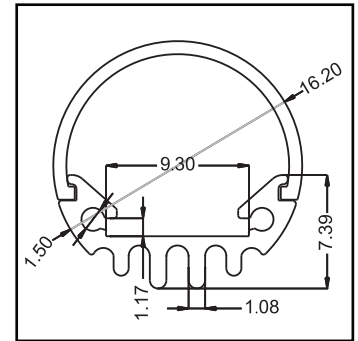


Dimension



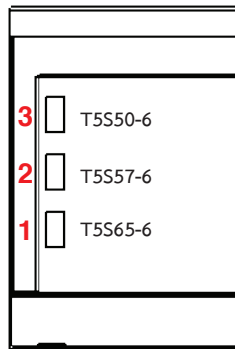
Dimension (mm.)±1.0

Product	A1	A2	D	E
T5	250	265	18	13

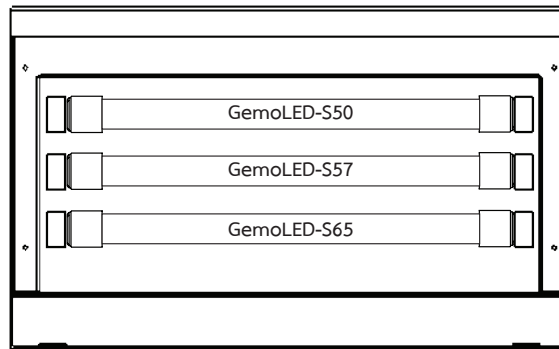


Position of Light source

Part No.

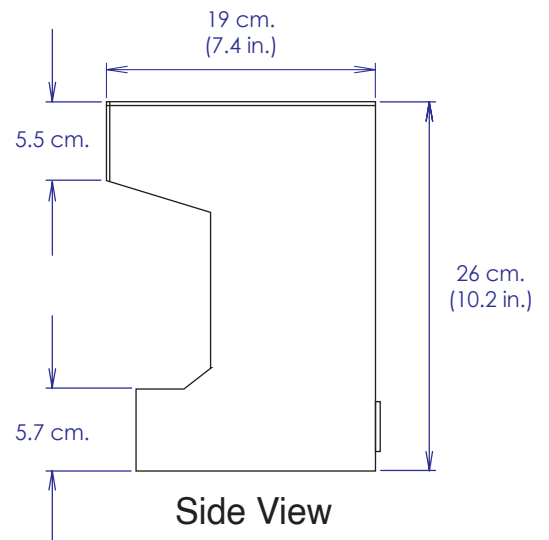
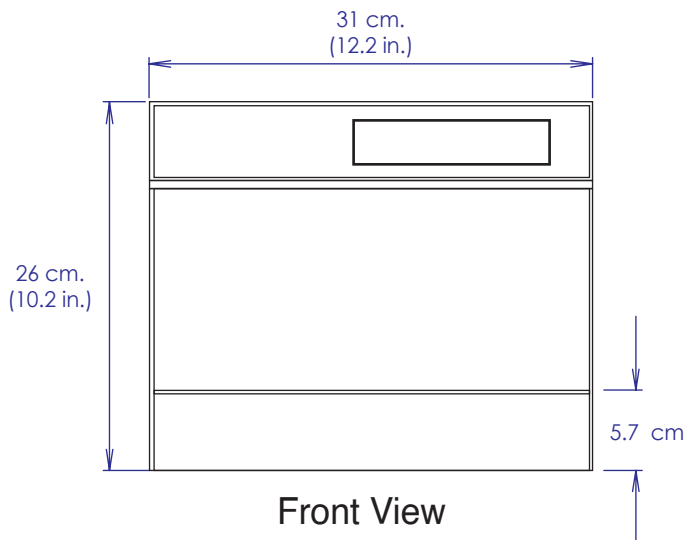


Front



Front

Dimension

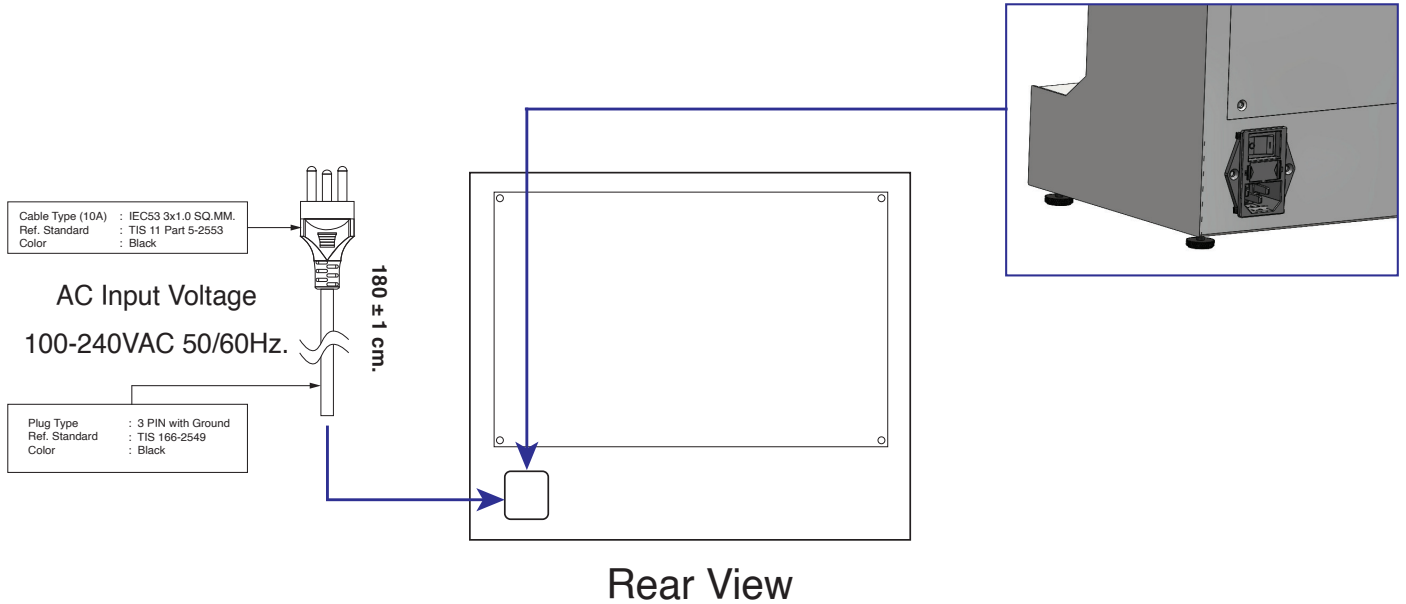


Gems Color Grading Cabinet

Series : GemoLED Pro Model : Gemo-S001



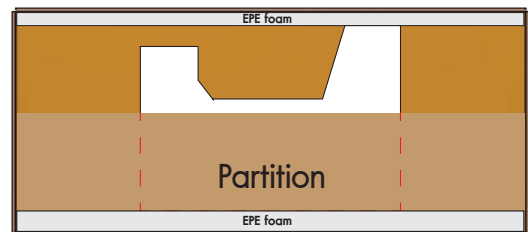
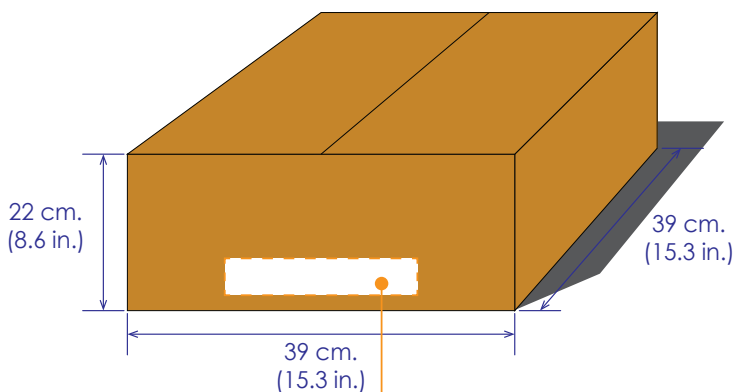
Wiring



Package

Packing

- Packaging details : EPE foam + carton
- Selling units : Single item
- Single package size (H x W x D) : 22cm x 39cm x 39cm
- Single gross weight : 5.4 Kg
- Type of paper : Kraft paper (KA185)



Caution symbol



Gems Color Grading T8 Tube



Model : GemoLED-S65 Part No. : T8S65-6

Spectrum Test Report

Sample Info.:

Name: GemoLED-S65

Type: S-1

SN: 001

Manu: W.I.P. ELECTRIC CO., LTD.

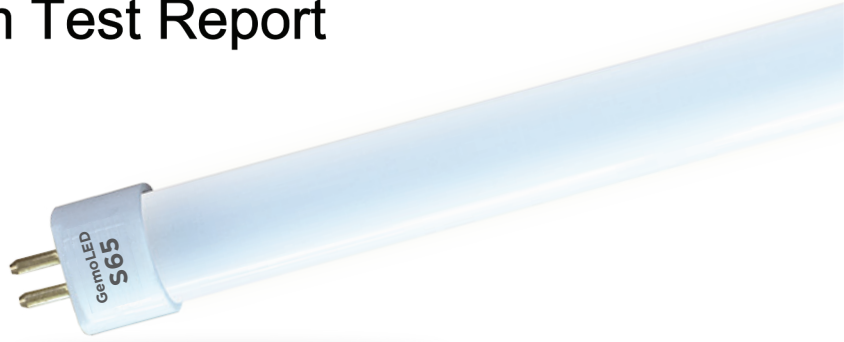
Date: 2024-07-17

Tester: Chanchai Chimwai

TMP: 25.3 DEG

Humidity: 65 %RH

Remark: GemoLED-S65



Meter state:

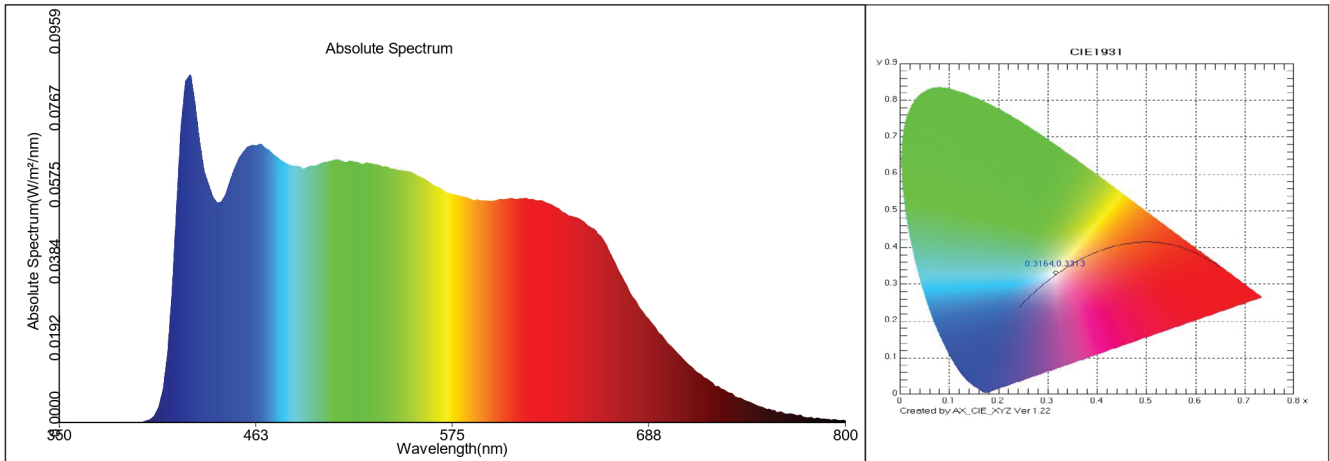
Test Meter: PLA-20

Sensitivity: High

Integral T: 478 ms

PeakAD Ip: 44898.9

Average times: 1



Test parameter:

E= 4820.6 lx

E(fc)=448.013 fc

CIE x= 0.3164

CIE y= 0.3313

CIE u'=0.1995

CIE v'=0.4701

Tc=6295 K

Lp=425.0 nm

HW=247.8 nm

Ld=490.2 nm

Pur=5.9 %

Ratio_R=15.9 %

Ratio_G=76.9 %

Ratio_B=7.2 %

Duv=0.00255

Ra=98.8

R1= 99

R2=100

R3= 98

R4= 98

R5= 99

R6=100

R7= 99

R8= 98

R9= 98

R10= 99

R11= 97

R12= 96

R13=100

R14= 99

R15= 99

SDCM= 4.0(F6500)

E1(400-700nm)=17.932 W/m²

E2(380-780nm)=18.571 W/m²

Ech-A=3.2955 W/m²

Ech-B=3.6271 W/m²

Ef=0.59896 W/m²

Eb=6.2886 W/m²

Ey=6.7456 W/m²

Er=4.9112 W/m²

Ep=14.989 Wphyto/m²

Erb_Ratio=0.78097

PPFDf=3.6337E+000 μmol/(m²·s)

PPFD=81.172 μmol/(m²·s)

Gems Color Grading T8 Tube



Model : GemoLED-S57 Part No. : T8S57-6

Spectrum Test Report

Sample Info.:

Name: GemoLED-S57

Type: S-1

SN: 001

Manu: W.I.P. ELECTRIC CO., LTD.

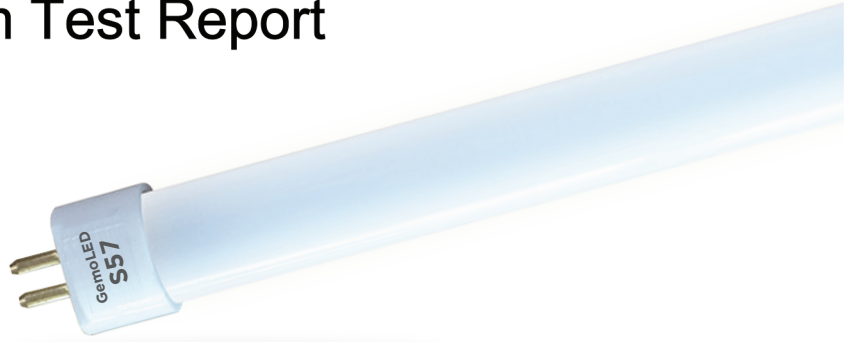
Date: 2024-07-17

Tester: Chanchai Chimwai

TMP: 25.3 DEG

Humidity: 65 %RH

Remark: GemoLED-S57



Meter state:

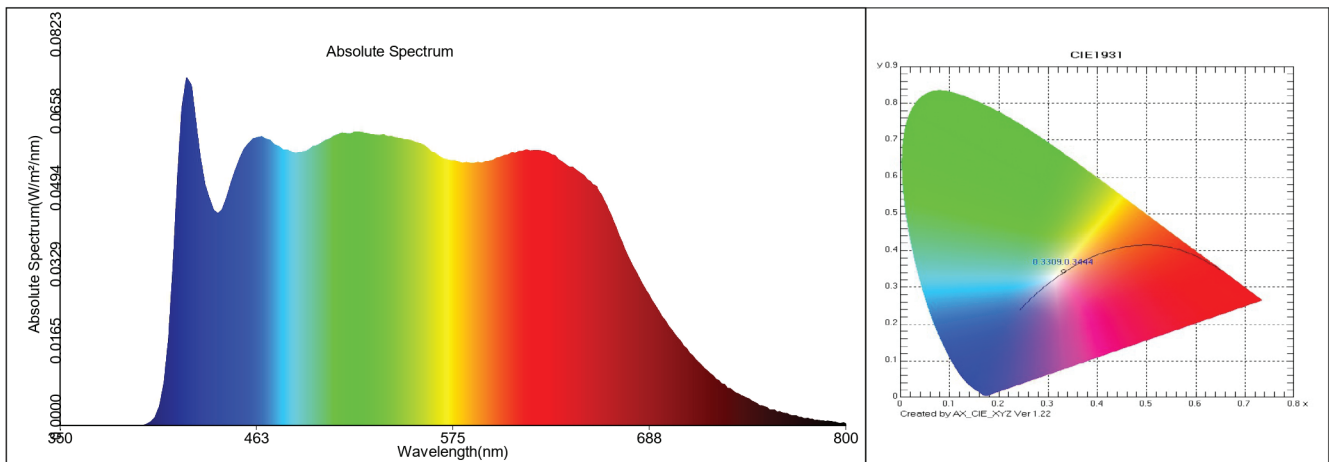
Test Meter: PLA-20

Sensitivity: High

Integral T: 570 ms

PeakAD Ip: 46058.3

Average times: 1



Test parameter:

E= 4766.1 lx

E(fc)=442.944 fc

CIE x= 0.3309

CIE y= 0.3444

CIE u'=0.2045

CIE v'=0.4790

Tc=5568 K

Lp=423.0 nm

HW=258.9 nm

Ld=542.1 nm

Pur=2.7 %

Ratio_R=17.0 %

Ratio_G=76.4 %

Ratio_B=6.6 %

Duv=0.00241

Ra=98.5

R1= 99

R2=100

R3= 98

R4= 97

R5= 98

R6= 99

R7= 99

R8= 98

R9= 99

R10=100

R11= 96

R12= 94

R13= 99

R14= 99

R15= 99

SDCM= 5.0(5300K/ENM)

E1(400-700nm)=17.428 W/m²

E2(380-780nm)=18.123 W/m²

Ech-A=3.2089 W/m²

Ech-B=3.3632 W/m²

Ef=0.6511 W/m²

Eb=5.5916 W/m²

Ey=6.6155 W/m²

Er=5.2338 W/m²

Ep=14.69 Wphyto/m²

Erb_Ratio=0.93601

PPFDf=3.9502E+000 μmol/(m²·s)

PPFD=79.718 μmol/(m²·s)

Gems Color Grading T8 Tube



Model : GemoLED-S50 Part No. : T8S50-6

Spectrum Test Report

Sample Info.:

Name: GemoLED-S50

Type: S-1

SN: 001

Manu: W.I.P. ELECTRIC CO., LTD.

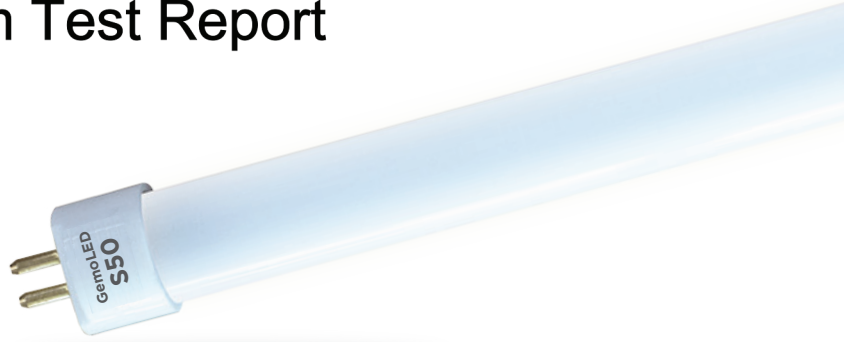
Date: 2024-07-17

Tester: Chanchai Chimwai

TMP: 25.3 DEG

Humidity: 65 %RH

Remark: GemoLED-S50



Meter state:

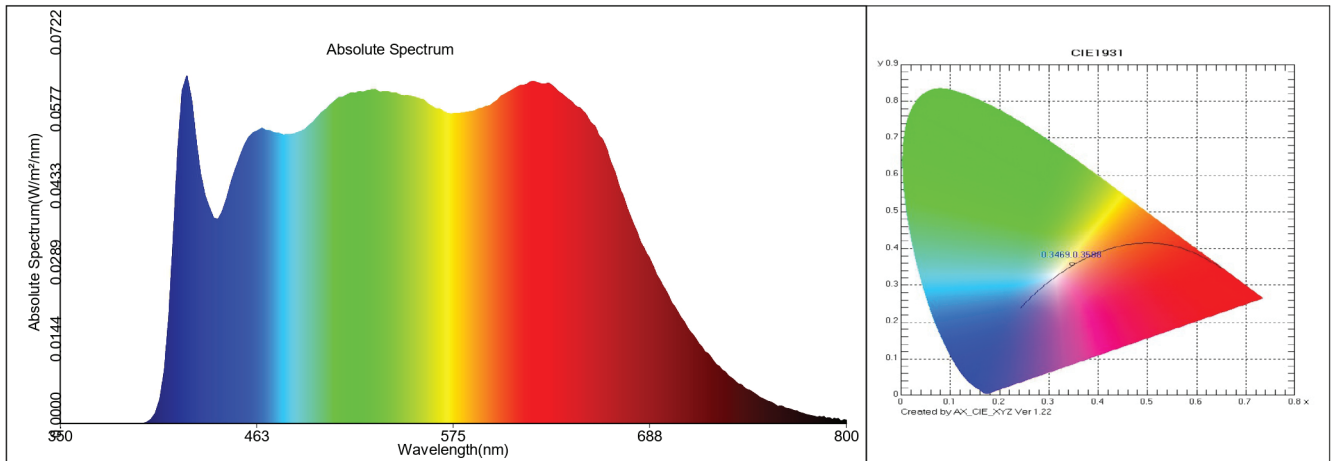
Test Meter: PLA-20

Sensitivity: High

Integral T: 611 ms

PeakAD Ip: 45069.3

Average times: 1



Test parameter:

E= 4856.9 lx

E(fc)=451.382 fc

CIE x= 0.3469

CIE y= 0.3588

CIE u'=0.2098

CIE v'=0.4884

Tc=4959 K

Lp=422.0 nm

HW=270.6 nm

Ld=570.6 nm

Pur=11.7 %

Ratio_R=18.0 %

Ratio_G=76.0 %

Ratio_B=6.0 %

Duv=0.00289

Ra=99.1

R1= 99

R2= 99

R3= 99

R4= 99

R5=100

R6= 99

R7= 99

R8= 99

R9= 97

R10= 98

R11= 98

R12= 99

R13= 99

R14= 99

R15= 99

SDCM= 0.7(F5000)

E1(400-700nm)=17.407 W/m²

E2(380-780nm)=18.184 W/m²

Ech-A=3.2027 W/m²

Ech-B=3.1918 W/m²

Ef=0.72531 W/m²

Eb=5.0301 W/m²

Ey=6.6911 W/m²

Er=5.6993 W/m²

Ep=14.804 Wphyto/m²

Erb_Ratio=1.133

PPFDf=4.4008E+000 µmol/(m²·s)

PPFD=80.491 µmol/(m²·s)