

The Light You Can Trust



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Official Website



Gems Color Grading Cabinet

Series : GemoLED Pro



Model : Gemo-M001 | Part No. : WDM-B01



Products of Thailand

Eff. Date 14/10/24
Rev.0

Gems Color Grading Cabinet



Series : GemoLED Pro Model : Gemo-M001

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, allows the addition of a customizable percentage of UV-light

FEATURES

- Available in 6500K, 2500K, 5700K, 5000K and UVA
- 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 : | ~165° + 130° extra wide beam for uplighting, Asymmetric beam for wall washing |

MECHANICAL SPECIFICATIONS

| | |
|---------------------------------|------------------------------|
| Enclosure material : | Aluminum with Powder Coating |
| Viewing area (H x W x D) : | 31 cm x 47 cm x 23 cm |
| Product dimension (H x W x D) : | 41 cm x 53 cm x 28 cm |
| Weight : | 5.15 Kg. |
| Warranty : | 1 Year |

ELECTRICAL SPECIFICATIONS

| | |
|--------------------|---------------|
| Lamp base : | G13 Bi-pin |
| Power : | 45W (Max) |
| Input voltage : | 100 - 240 VAC |
| Input frequency : | 50 - 60 Hz. |
| Power factor : | >0.95 |
| THDi : | <10% |
| Flicker Free : | Yes |
| Surge Protection : | 10KV |

TECHNICAL SPECIFICATIONS

| | |
|-------------------------|--|
| Lens material : | PMMA |
| Illuminants : | Daylight 6500K CRI98+ Noon Sky Daylight 5700K CRI98+ UVA |
| 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 |

CONTROLLER



| Model | Part No. | Power | TC |
|-----------|----------|-----------|-------------------|
| Gemo-M001 | WDM-B01 | 45W (Max) | 6500K, 5700K, UVA |

| LED Driver Standard | |
|-----------------------------------|---|
| (Thai) | : TIS. 1955-2551 |
| (China) | : GB19510.1, GB19510.14 |
| (Germany) | : EN61347-1, EN61347-2-13, EN62493 |
| (CB Member States) | : IEC61347-1, IEC61347-2-13 |
| (European Union) | : EN61347-1, EN61347-2-13, EN62384 |
| (Korea) | : KC61347-1, KC61347-2-13 |
| (Russia) | : IEC6137-1, IEC61347-2-13 |
| (Australia) | : AS61347-1, AS61347-2-13 |
| (Europe) | : EN61347-1, EN61347-2-13, EN62384 |
| (Britain) | : BS EN61347-1, BS EN61347-2-13, BS EN62493 |
| (India) | : IS15885 (Part 2/SEC 13) |
| (Canada) | : CSA C22.2 NO.250.13 |
| (America) | : UL8750 |
| EMC Emission | |
| (China) | : GB/T17743, GB17625.1 |
| (European Union) | : EN55015, EN61000-3-2, EN61000-3-3, EN61547 |
| (Korea) | : KSC9815, KSC9547 |
| (Russia) | : IEC62493, IEC61547, EH55015 |
| (Australia) | : EN55015, EN61000-3-2, EN6100-3-3, EN61547 |
| (Britain) | : BS EN IEC55015, BS EN IEC61000-3-2, BS EN61000-3-3, BS EN61547 |
| (Canada) | : ICES-005 |
| (America) | : FCC PART 15B |
| EMC Immunity | |
| EN61000-4-2,3,4,5,6,8,11, EN61547 | |

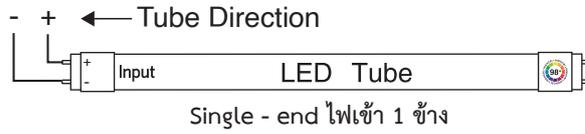
| Part No. | Symbol of Sources | Lamp Size (T8 Lamps) | Power | Lux (Center) | | CRI | Lens | Beam Angle | Description |
|----------|-------------------|----------------------|-----------|-----------------------|-----------------------|-----|------|----------------------------------|-------------------------------|
| | | | | 1 st Floor | 2 nd Floor | | | | |
| T8M65-15 | | 42 cm. (20 In.) | 15W (Max) | 4726 lux | 2072 lux | 98+ | PMMA | ~165° + 130° | D65 (Daylight 6500K) CRI98+ |
| T8M57-15 | | 42 cm. (20 In.) | 15W (Max) | 4858lux | 2027 lux | 98+ | PMMA | ~165° + 130° | D25 (Warm White 2500K) CRI90+ |
| T8MLW-15 | LW | 42 cm. (20 In.) | 15W (Max) | 22 lux | 13 lux | - | PMMA | Asymmetric beam for wall washing | LW (UAV) |

Gems Color Grading Cabinet

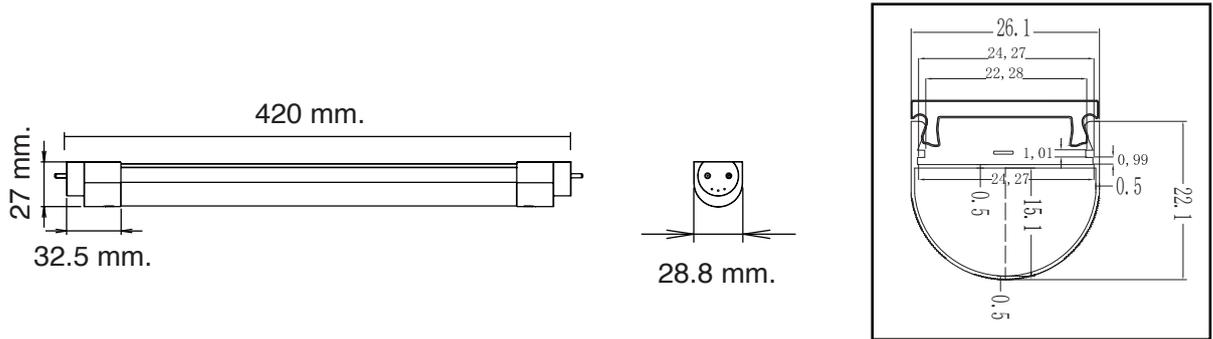
Series : GemoLED Pro Model : Gemo-M001



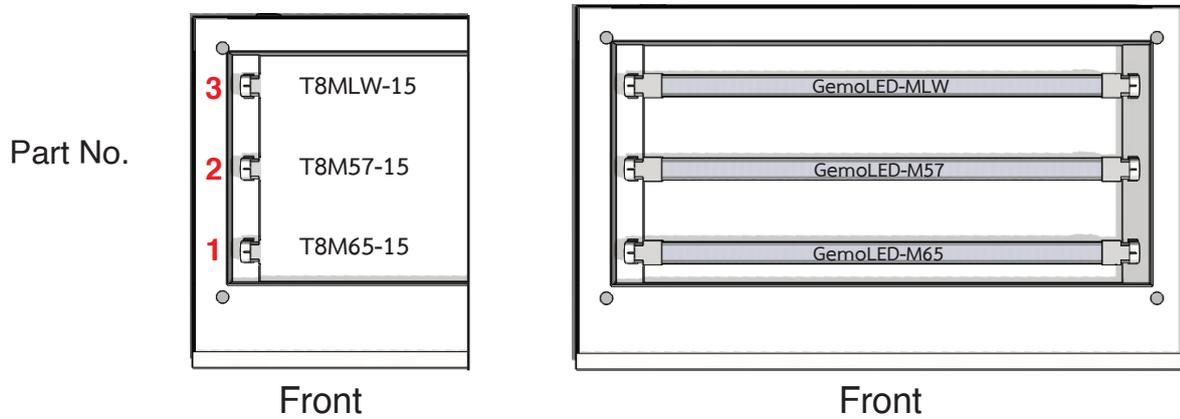
Wiring Diagram



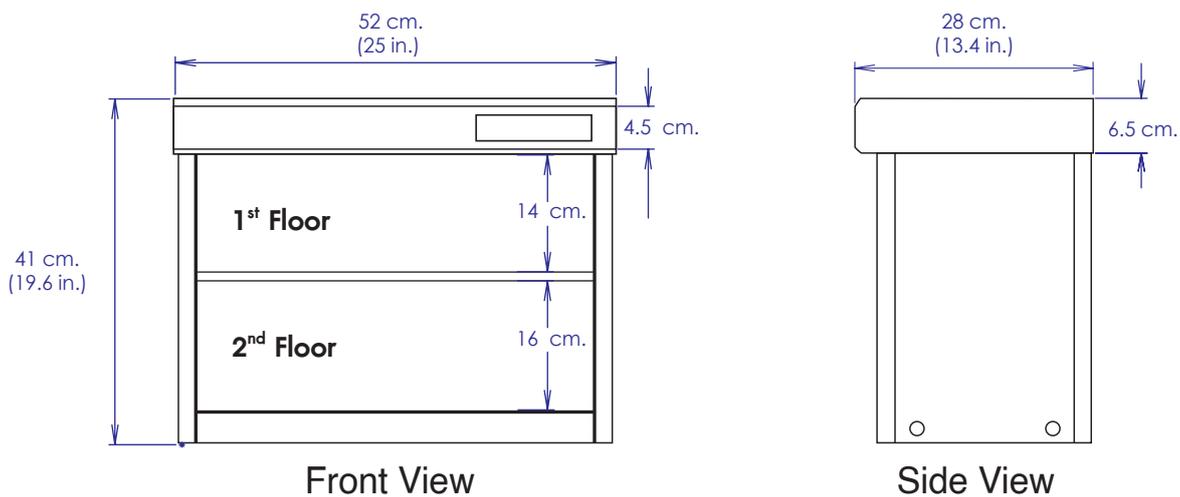
Dimension



Position of Light source



Dimension

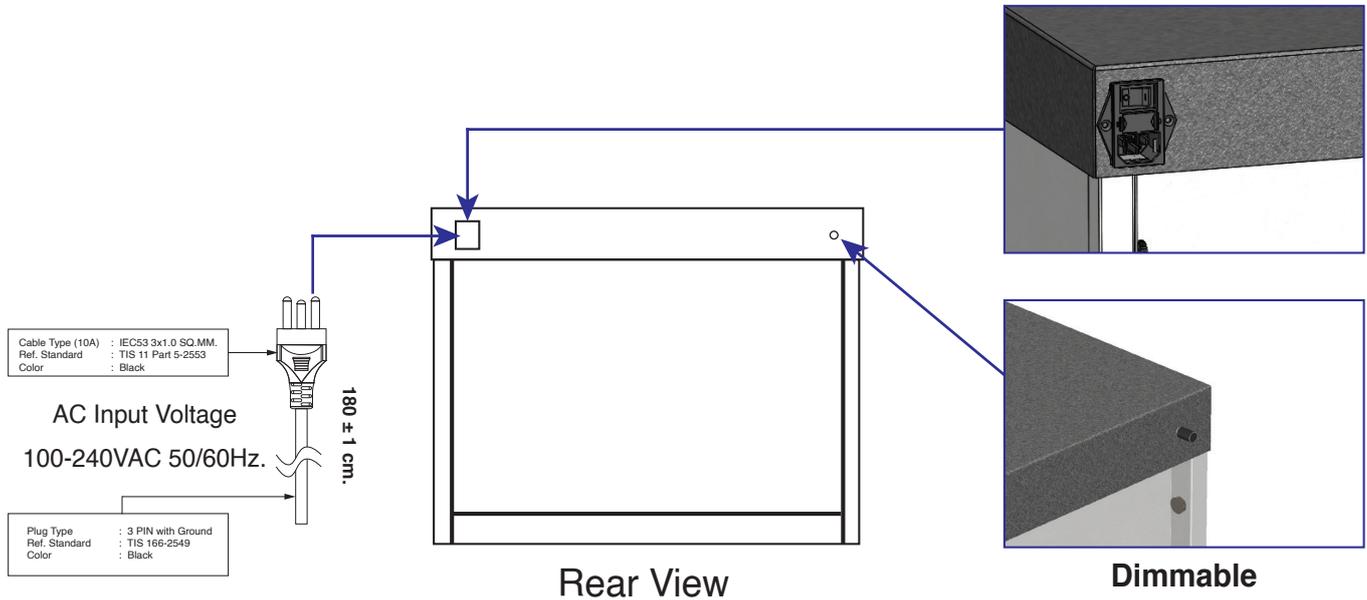


Gems Color Grading Cabinet

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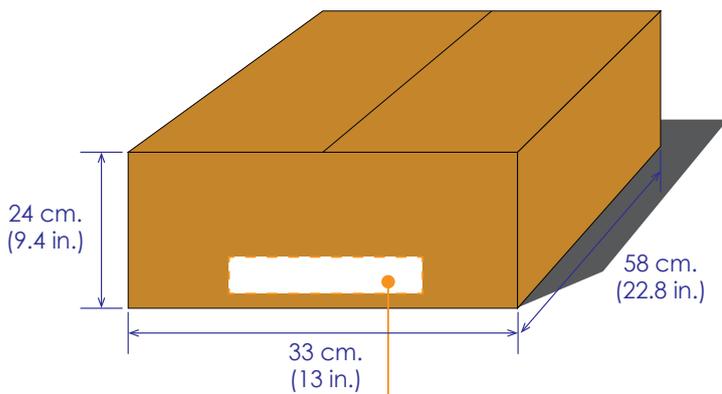
Wiring



Package

Packing

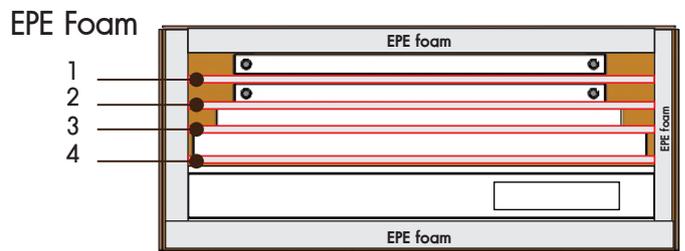
- Packaging details : EPE foam + carton
- Selling units : Single item
- Single package size (H x W x D) : 24cm x 33cm x 58cm
- Single gross weight : 5.9 Kg



Caution symbol



Each layer will have a EPE foam, 4pads in total.
 Type of foam : EPE foam



Gems Color Grading T8 Tube



Model : GemoLED-M65 Part No. : T8M65-15

Spectrum Test Report

Sample Info.:

Name: GemoLED-M65

Type:S-1

SN:001

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

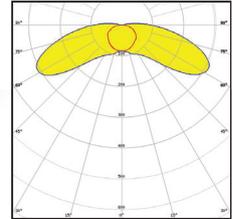
Date:2024-07-17

Tester:Chanchai Chimwai

TMP:25.3 DEG

Humidity:65 %RH

Remark: GemoLED-M65



~165° + 130° extra wide beam for uplighting

Meter state:

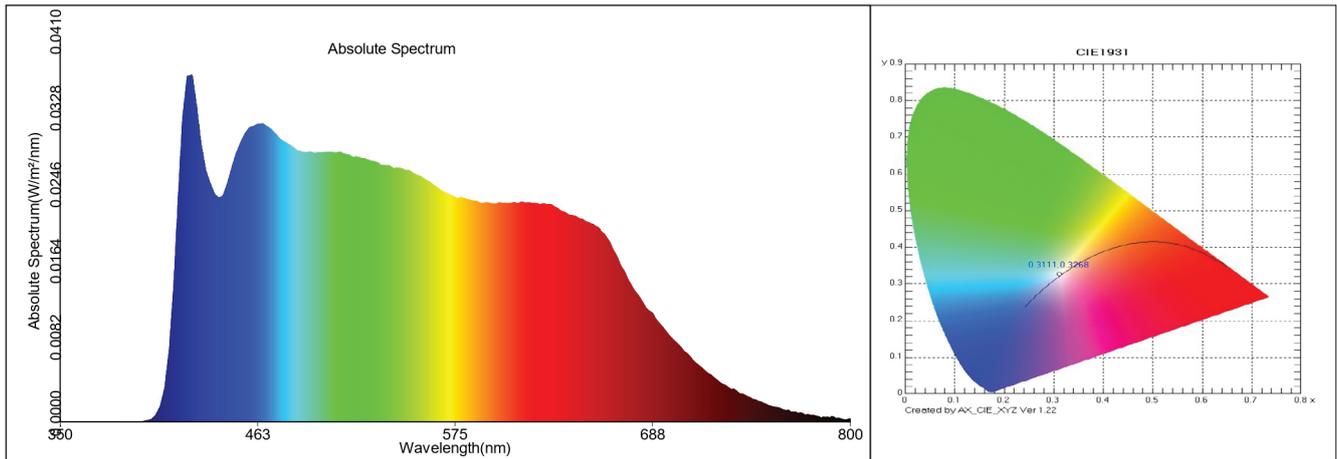
Test Meter: PLA-20

Sensitivity: High

Integral T: 998 ms

PeakAD Ip: 40122.6

Average times: 1



Test parameter:

E= 2071.9 lx

E(fc)=192.553 fc

CIE x= 0.3111

CIE y= 0.3268

CIE u'=0.1975

CIE v'=0.4669

Tc=6611 K

Lp=425.0 nm

HW=248.6 nm

Ld=487.9 nm

Pur=8.0 %

Ratio_R=15.7 %

Ratio_G=76.7 %

Ratio_B=7.6 %

Duv=0.00287

Ra=98.8

R1= 98

R2= 99

R3= 99

R4= 98

R5= 98

R6= 99

R7=100

R8= 99

R9= 97

R10= 98

R11= 97

R12= 96

R13= 99

R14= 99

R15= 99

SDCM= 5.2(F6500)

E1(400-700nm)=7.82 W/m²

E2(380-780nm)=8.1199 W/m²

Ech-A=1.4258 W/m²

Ech-B=1.6017 W/m²

Ef=0.27928 W/m²

Eb=2.8194 W/m²

Ey=2.9009 W/m²

Er=2.1055 W/m²

Ep=6.5177 Wphyto/m²

Erb_Ratio=0.74678

PPFDf=1.6951E+000 μmol/(m²·s)

PPFD=35.321 μmol/(m²·s)

Gems Color Grading T8 Tube



Model : GemoLED-M57 Part No. : T8M57-15

Spectrum Test Report

Sample Info.:

Name: GemoLED-M57

Type: S-1

SN: 001

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

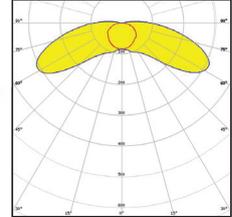
Date: 2024-07-16

Tester: Chanchai Chimwai

TMP: 25.3 DEG

Humidity: 65 %RH

Remark: GemoLED-M57



~165° + 130° extra wide beam for uplighting

Meter state:

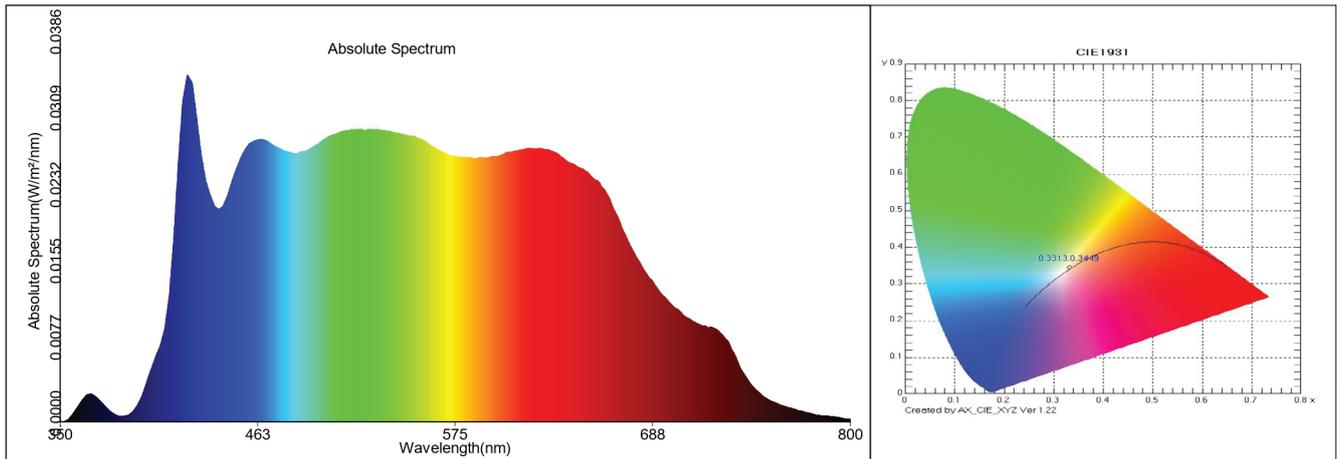
Test Meter: PLA-20

Sensitivity: High

Integral T: 1081 ms

PeakAD Ip: 41017.6

Average times: 1



Test parameter:

E= 2243.6 lx

E(fc)=208.51 fc

CIE x= 0.3313

CIE y= 0.3449

CIE u'=0.2046

CIE v'=0.4793

Tc=5550 K

Lp=423.0 nm

HW=261.4 nm

Ld=544.9 nm

Pur=3.0 %

Ratio_R=16.9 %

Ratio_G=76.6 %

Ratio_B=6.5 %

Duv=0.00247

Ra=98.5

R1= 99

R2= 99

R3= 98

R4= 97

R5= 98

R6= 99

R7= 99

R8= 98

R9= 98

R10= 99

R11= 96

R12= 94

R13=100

R14= 99

R15= 98

SDCM= 4.9(5300K/ENM)

E1(400-700nm)=8.2961 W/m²

E2(380-780nm)=8.8127 W/m²

Ech-A=1.5622 W/m²

Ech-B=1.5854 W/m²

Ef=0.46103 W/m²

Eb=2.6923 W/m²

Ey=3.1184 W/m²

Er=2.4915 W/m²

Ep=7.0489 Wphyto/m²

Erb_Ratio=0.92544

PPFDf=2.7999E+000 μmol/(m²·s)

PPFD=37.902 μmol/(m²·s)

Gems Color Grading T8 Tube



Model : GemoLED-MLW Part No. : T8MLW-15

Spectrum Test Report

Sample Info.:

Name: GemoLED-MLW

Type:S-1

SN:001

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

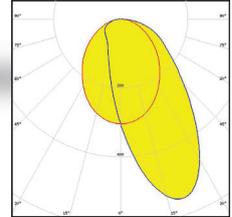
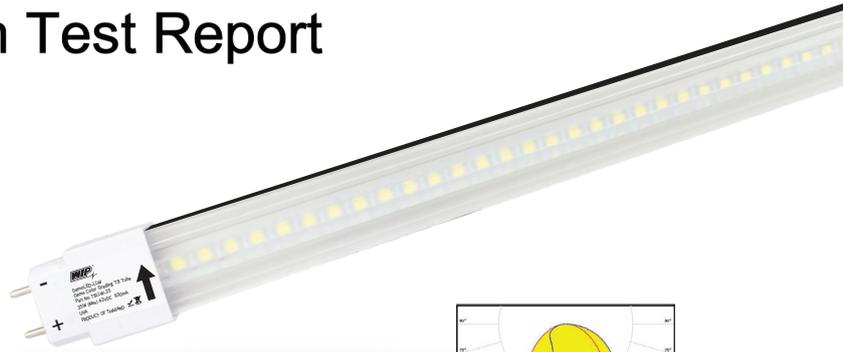
Date:2024-07-18

Tester:Chanchai Chimwai

TMP:25.3 DEG

Humidity:65 %RH

Remark: GemoLED-MLW



Asymmetric beam for wall washing

Meter state:

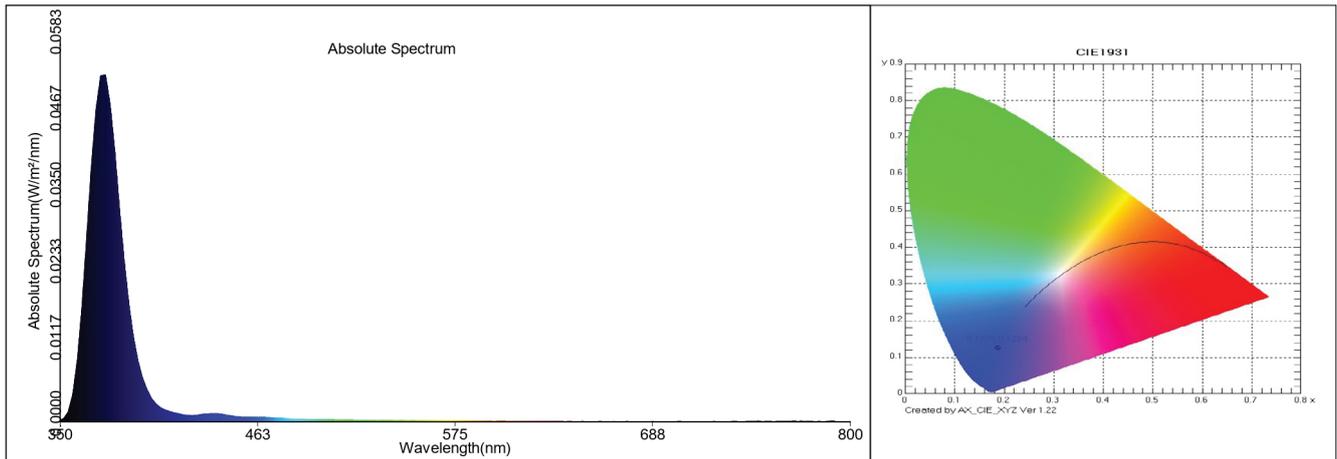
Test Meter: PLA-20

Sensitivity: High

Integral T: 1035 ms

PeakAD Ip: 43750.4

Average times: 1



Test parameter:

E= 12.8 lx

E(fc)=1.19205 fc

CIE x= 0.1870

CIE y= 0.1264

CIE u'=0.1806

CIE v'=0.2746

Tc=100000 K

Lp=375.0 nm

HW=21.0 nm

Ld=467.3 nm

Pur=72.2 %

Ratio_R=5.7 %

Ratio_G=74.6 %

Ratio_B=19.7 %

Duv=0.08290

Ra=54.2

R1= 63

R2= 85

R3= 31

R4= 34

R5= 69

R6= 64

R7= 56

R8= 32

R9=-93

R10= 53

R11= 29

R12= 31

R13= 81

R14= 62

R15= 61

SDCM=90.1(F5000)

E1(400-700nm)=0.12962 W/m²

E2(380-780nm)=0.55716 W/m²

Ech-A=0.042097 W/m²

Ech-B=0.036941 W/m²

Ef=0.0011994 W/m²

Eb=0.10864 W/m²

Ey=0.018052 W/m²

Er=0.0029742 W/m²

Ep=0.69546 Wphyto/m²

Erb_Ratio=0.027378

PPFDf=7.4775E-003 μmol/(m²·s)

PPFD=0.48926 μmol/(m²·s)