

# The Light You Can Trust



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Official Website



## Gems Color Grading Lamp

Model : Gemo-LP06 | Part No. : WDP-P06



Products of Thailand

Eff. Date 14/11/24  
Rev.1

# Gems Color Grading Lamp

Model : Gemo-LP06

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.



TIS 1955 2551



## FEATURES

- Available in 6500K and 5700K
- 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

### WARNING

This luminaire has been modified to operate LED GemoLP-06 lamp, Do not attempt to install or operate fluorescent lamps in this luminaire.

## PHOTOMETRIC SPECIFICATIONS

LED :	Seoul
CRI :	98+
R9 :	95+
LED Lifetime (L70) :	50,000 hours
Light distribution :	>150°

## ELECTRICAL SPECIFICATIONS

Lamp base :	G13 Bi-pin
Power :	20W
Input voltage :	100 - 250 VAC
Input frequency :	50 - 60 Hz.
Power factor :	>0.95
THDi :	<15%
Flicker Free :	Yes

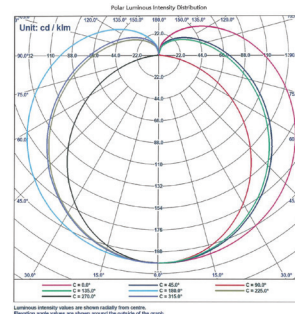
## TECHNICAL SPECIFICATIONS

Illuminants :	Lamp 1 : 5700K ±300K	1337Lux ±15%	@40cm.
	Lamp 1 : 6500K ±300K	1240Lux ±15%	@40cm.
	Lamp 1 + Lamp 2 :	2524Lux ±15%	@40cm.

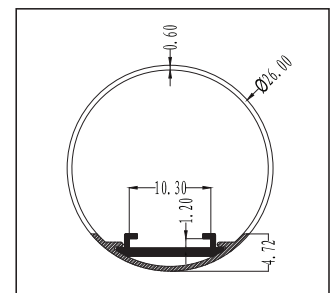
## MECHANICAL SPECIFICATIONS

Product dimension (H x W x D) :	66 cm x 47 cm x 40 cm
Weight :	5.9Kg.
Gross Weight :	6.3Kg.
Warranty :	1 Year

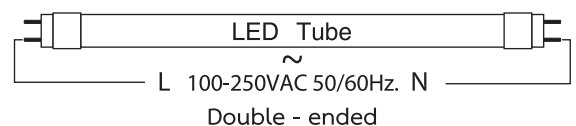
Beam Angle



Tube



Wiring Diagram



# Gems Color Grading T8 Tube



Model : GemoLED-65 Part No. : T8LP65-10

## Spectrum Test Report

### Sample Info.:

Name: GemoLED-65

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-65



TIS.1955-2551  
TIS.2779-2562

### Meter state:

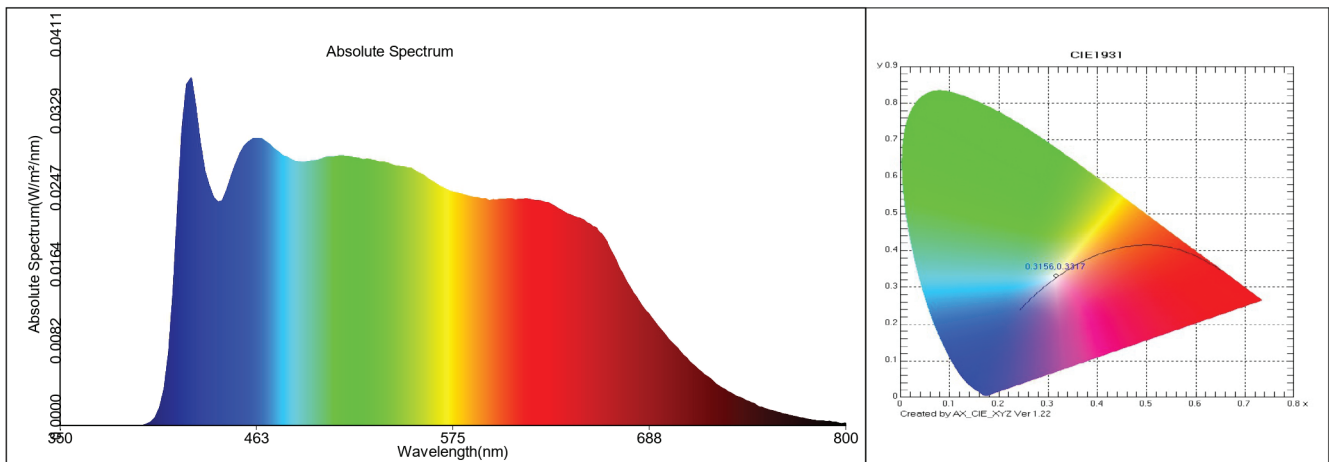
Test Meter: PLA-20

Sensitivity: High

Integral T: 1119 ms

PeakAD Ip: 45071.4

Average times: 1



### Test parameter:

E= 2119.1 lx

E(fc)=196.939 fc

CIE x= 0.3156

CIE y= 0.3317

CIE u'=0.1988

CIE v'=0.4702

Tc=6331 K

Lp=425.0 nm

HW=249.9 nm

Ld=490.5 nm

Pur=6.1 %

Ratio\_R=15.8 %

Ratio\_G=77.0 %

Ratio\_B=7.2 %

Duv=0.00314

Ra=99.1

R1=100

R2=100

R3= 99

R4= 98

R5= 99

R6=100

R7= 99

R8= 98

R9= 97

R10= 99

R11= 98

R12= 97

R13=100

R14= 99

R15= 99

SDCM= 3.3(F6500)

E1(400-700nm)=7.897 W/m²

E2(380-780nm)=8.2091 W/m²

Ech-A=1.4471 W/m²

Ech-B=1.5926 W/m²

Ef=0.29087 W/m²

Eb=2.7664 W/m²

Ey=2.9693 W/m²

Er=2.1672 W/m²

Ep=6.6013 Wphyto/m²

Erb\_Ratio=0.78341

PPFDf=1.7654E+000 µmol/(m²·s)

PPFD=35.765 µmol/(m²·s)

# Gems Color Grading T8 Tube



Model : GemoLED-57 Part No. : T8LP57-10

## Spectrum Test Report

### Sample Info.:

Name: GemoLED-57

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-65



TIS.1955-2551  
TIS.2779-2562

### Meter state:

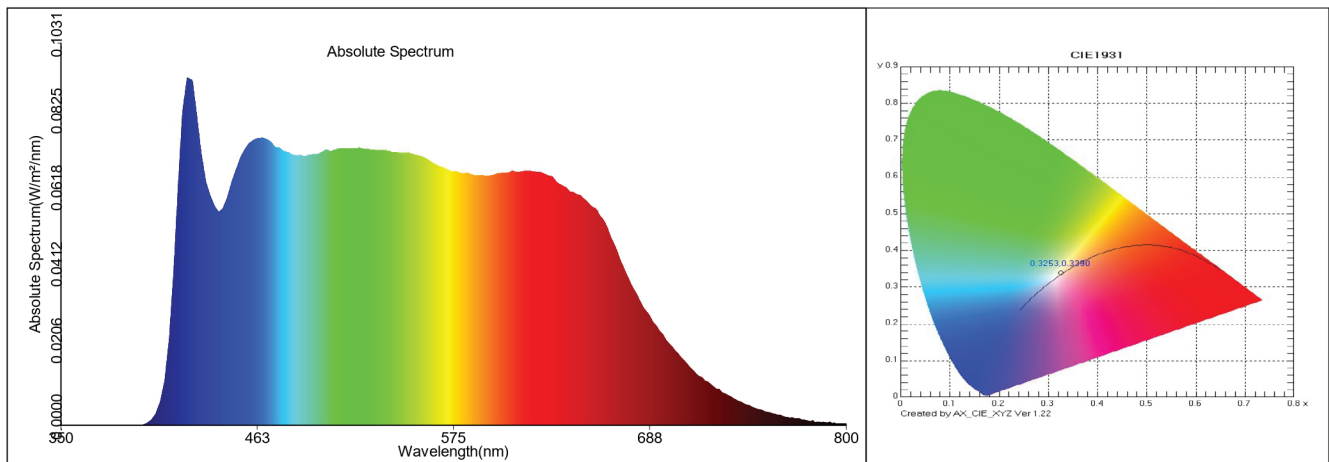
Test Meter: PLA-20

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)