

The Light You Can Trust



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Official Website



Gems Color Grading Lamp

Model : Gemo-LP09 | Part No. : WDP-P09



Products of Thailand

Eff. Date 16/12/24
Rev.1

Gems Color Grading Lamp



Model : Gemo-LP09 Part No. : WDP-P09

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.



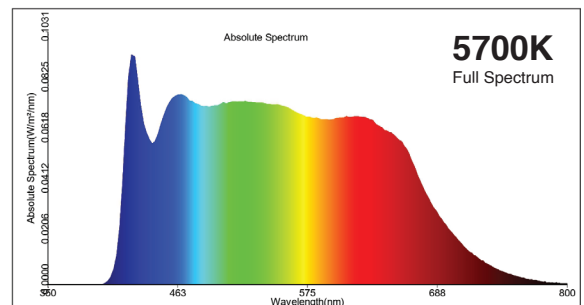
FEATURES

- Available in 6500K and 5700K
- 98+ CRI and R9 > 95
- Touch dimmer switch
- Easy to operate by individual switch for each light source
- Economic power consumption and low heat generation
- More than 50,000 hours lifetime and 1 year warranty

Model	Part No.	Power	TC
Gemo-LP09	WDP-P09	14.5W	5700K, 6500K

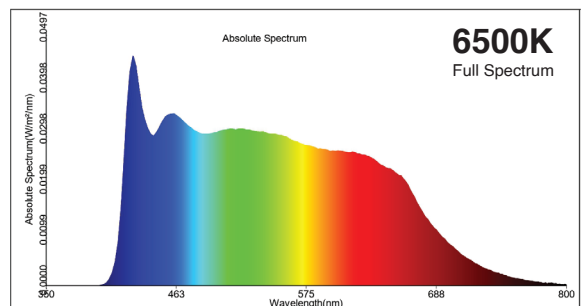
PHOTOMETRIC SPECIFICATIONS

LED :	Seoul
CRI :	98+
R9 :	95+
Flicker Free :	Yes
LED Lifetime (L70) :	50,000 hours



ELECTRICAL SPECIFICATIONS

Power :	14.5W
Input voltage :	220 - 240 VAC
Input frequency :	50 - 60 Hz.
Power factor :	>0.95
THDi :	<15%



TECHNICAL SPECIFICATIONS

Illuminants :	Noon Sky Daylight 5700K 3 steps Daylight 6500K 3 steps
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MECHANICAL SPECIFICATIONS

Colour Available :	White
Giftbox Size (CM) :	55.5 cm x 42 cm x 7.5 cm
Standard Mount :	Table clamp
Option :	Lamp Base
Warranty :	1 Year

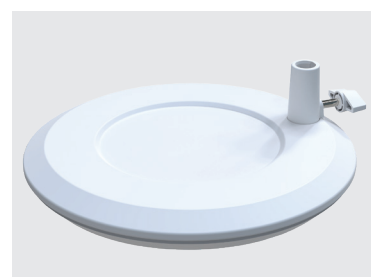


Table lamp base

Gems Color Grading Lamp



Model : Gemo-LP09 Part No. : WDP-P09

Spectrum Test Report

Sample Info.:

Name:Gems Color Grading Lamp 5700K

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:Gems Color Grading Lamp 5700K

Meter state:

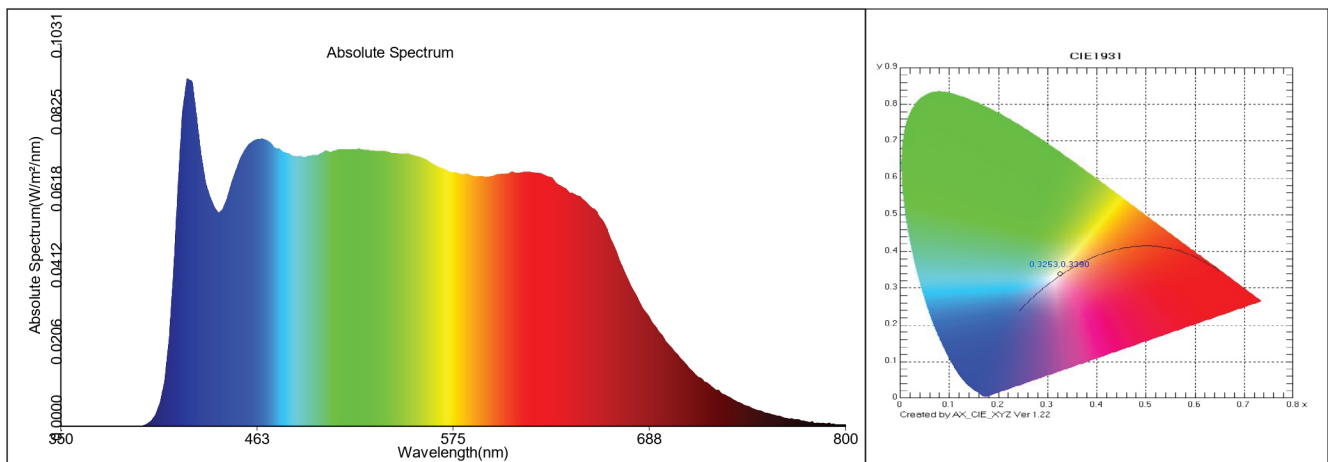
Test Meter: PLA-20

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 Lamp



Model : Gemo-LP09 Part No. : WDP-P09

Spectrum Test Report

Sample Info.:

Name:Gems Color Grading Lamp 6500K

Type:S-1

SN:001

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

Date:2024-11-23

Tester:Chanchai Chimwai

TMP:25.3 DEG

Humidity:65 %RH

Remark:Gems Color Grading Lamp 6500K

Meter state:

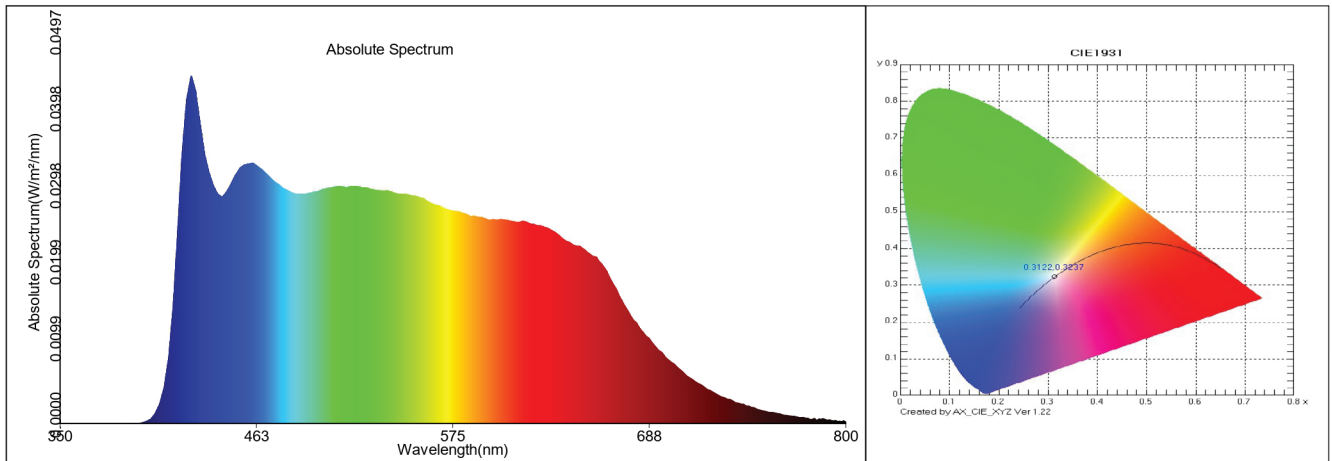
Test Meter: PLA-20

Sensitivity: High

Integral T: 899 ms

PeakAD Ip: 43732.1

Average times: 1



Test parameter:

E= 2282.3 lx

E(fc)=212.113 fc

CIE x= 0.3122

CIE y= 0.3237

CIE u'=0.1995

CIE v'=0.4654

Tc=6577 K

Lp=425.0 nm

HW=233.8 nm

Ld=485.7 nm

Pur=7.9 %

Ratio_R=15.6 %

Ratio_G=77.2 %

Ratio_B=7.2 %

Duv=0.00073

Ra=97.8

R1= 99

R2= 98

R3= 97

R4= 97

R5= 99

R6= 98

R7= 97

R8= 97

R9= 94

R10= 96

R11= 97

R12= 96

R13= 99

R14= 98

R15= 98

SDCM= 6.4(7200K/national)

White Class:C78.377_6500K

E1(400-700nm)=8.5273 W/m²

E2(380-780nm)=8.7985 W/m²

Ech-A=1.5821 W/m²

Ech-B=1.7768 W/m²

Ef=0.25145 W/m²

Eb=3.1088 W/m²

Ey=3.2024 W/m²

Er=2.2223 W/m²

Ep=7.11 Wphyto/m²

Erb_Ratio=0.71485

PPFDf=1.5260E+000 µmol/(m²·s)

PPFD=38.384 µmol/(m²·s)