The Light You Can Trust

All Contact

WIP®
GIT Gem and Jewelry Institute of Thailand
Being Developed in Collaboration With GIT

Gems Color Grading Lamp

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

FLICKER FREE

LED



Natural Light

Built in 2 TC
(6500K, 5700K)

Dimmable



SEOUL

RoHS

Green Industry

TIS.1955-2551

Products of Thailand

Eff. Date 23/01/26
Rev.7

Gems Color Grading Lamp

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Being Developed in Collaboration With GIT

Light source for the colour grading of gemstone was developed in a collaboration between GIT (Gem and JewelryInstitute 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.

FLICKER FREE

LED

TIS.1955-2551



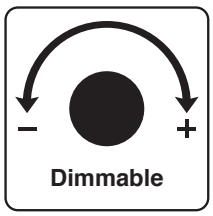
Natural Light

Built in 2 TC

(6500K, 5700K)

HIGHCRI • HIGHCRI • HIGHCRI • HIGHCRI • HIGHCRI • HIGHCRI • 98+





Dimmable

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

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%

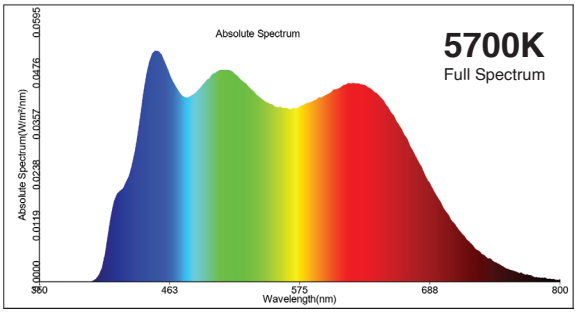
TECHNICAL SPECIFICATIONS

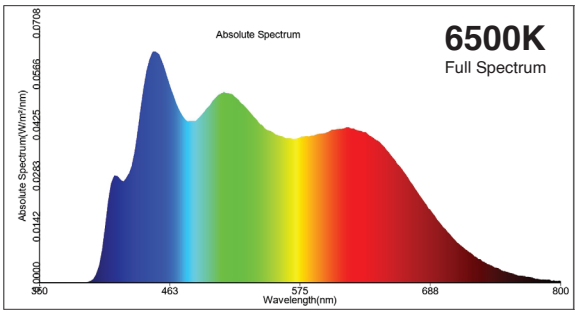
Circuit :	2 Circuit
Illuminants :	Noon Sky Daylight 5700K
	Daylight 6500K
Dimmable :	Yes

MECHANICAL SPECIFICATIONS

Colour Avalible :	White, Black
Standard Mount :	Table clamp
weight :	1.6 Kg.
Package Dimension (H x W x D) :	7.5 cm x 42 cm x 55.5 cm
Option :	Lamp Base
Base lamp weight :	4.7 Kg.
Package Base lamp Dimension (H x W x D) :	9 cm x 24 cm x 24 cm
Gross weight :	6.3 Kg.
Warranty :	1 Year

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





Gems Color Grading Lamp

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

Spectrum Test Report

Sample Info.:

Name: Gemo-LP09 At40cm 5700K

Type:S-1

SN:001

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

Date:2025-02-19

Tester:Chanchai Chimwai

TMP:25.3 DEG

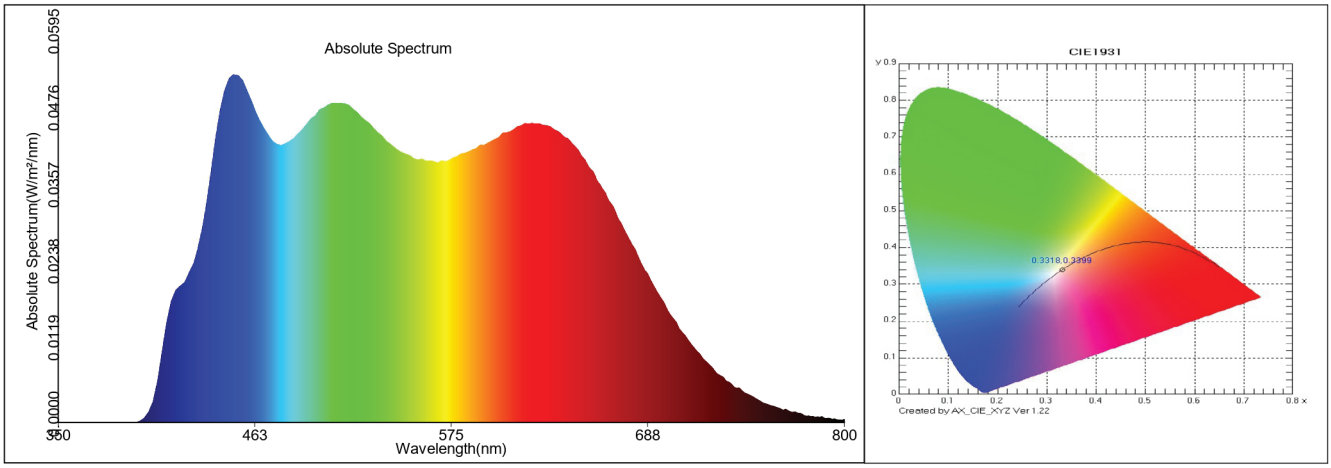
Humidity:65 %RH

Remark: Gems Color Grading Lamp Gemo-LP09

Meter state:

Test Meter: PLA-20 Sensitivity: High

Integral T: 764 ms PeakAD Ip: 46494.6 Average times: 1



Test parameter:

E= 3512.6 lx E(fc)=326.446 fc

CIE x= 0.3318	CIE y= 0.3399	CIE u'=0.2069	CIE v'=0.4768
Tc=5525 K	Lp=451.0 nm	HW=249.8 nm	Ld=541.1 nm
Pur=1.6 %	Ratio_R=18.0 %	Ratio_G=75.1 %	Ratio_B=6.9 %
Duv=-0.00035			

Ra=93.9	R1= 92	R2= 95	R3= 97
R4= 92	R5= 92	R6= 92	R7= 98
R8= 95	R9= 83	R10= 87	R11= 88
R12= 91	R13= 92	R14= 98	R15= 93

SDCM= 3.3(5300K/ENM)
White Class:C78.377_5700K

E1(400-700nm)=12.966 W/m² E2(380-780nm)=13.527 W/m²

Ech-A=2.1391 W/m²	Ech-B=2.5941 W/m²	Ef=0.52533 W/m²
Eb=4.027 W/m²	Ey=4.8507 W/m²	Er=4.0987 W/m²
Ep=10.947 Wphyto/m²	Erb_Ratio=1.0178	

PPFDf=3.1861E+000 μmol/(m²·s)
PPFD=59.667 μmol/(m²·s)

Gems Color Grading Lamp

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

Spectrum Test Report

Sample Info.:

Name:Gemo-LP09 At40cm 6500K

Type:S-1

SN:001

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

Date:2025-02-19

Tester:Chanchai Chimwai

TMP:25.3 DEG

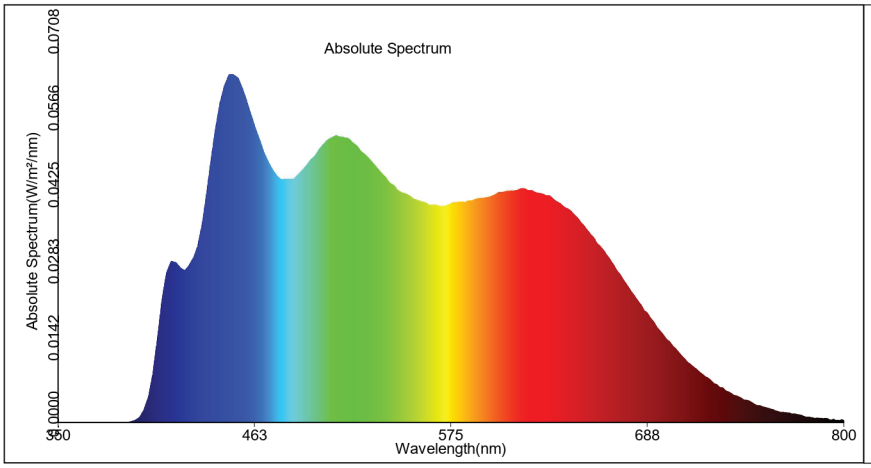
Humidity:65 %RH

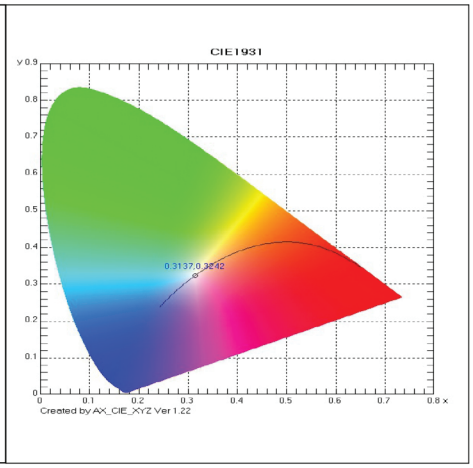
Remark: Gems Color Grading Lamp Gemo-LP09

Meter state:

Test Meter: PLA-20 Sensitivity: High

Integral T: 653 ms PeakAD Ip: 41796.5 Average times: 1





Test parameter:

E= 3515.6 lx E(fc)=326.731 fc

CIE x= 0.3137	CIE y= 0.3242	CIE u'=0.2004	CIE v'=0.4659
Tc=6486 K	Lp=449.0 nm	HW=231.9 nm	Ld=485.5 nm
Pur=7.3 %	Ratio_R=16.6 %	Ratio_G=76.0 %	Ratio_B=7.4 %
Duv=0.00016			

Ra=95.1	R1= 93	R2= 96	R3= 98
R4= 92	R5= 93	R6= 94	R7= 99
R8= 95	R9= 85	R10= 91	R11= 88
R12= 94	R13= 93	R14= 98	R15= 94

SDCM= 7.4(F6500)
White Class:C78.377_6500K

E1(400-700nm)=13.32 W/m² E2(380-780nm)=13.831 W/m²

Ech-A=2.2202 W/m²	Ech-B=2.8405 W/m²	Ef=0.46959 W/m²
Eb=4.6955 W/m²	Ey=4.9296 W/m²	Er=3.705 W/m²
Ep=11.117 Wphyto/m²	Erb_Ratio=0.78906	

PPFDf=2.8492E+000 μmol/(m²·s)
PPFD=60.297 μmol/(m²·s)