The Light You Can Trust

All Contact

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

Gems Color Grading Cabinet

Series : GemoLED Pro FLICKER FREE LED

Natural Light



HIGHCRI • HIGHCRI • HIGHCRI • HIGHCRI • 98+

Made in Thailand
MiT6709000102

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







NICHIA 10KV SURGE PROTECTION Made in Thailand MiT6709000102 RoHS Green Industry TIS 1955 2551 Products of Thailand

Eff. Date 11/12/25
Rev.4

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 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.



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 1 year warranty

PHOTOMETRIC SPECIFICATIONS

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

ELECTRICAL SPECIFICATIONS

Lamp base :	G5 Bi-pin
Power :	15W (Max)
Input voltage :	220 - 240 VAC
Input frequency :	50 - 60 Hz.
Power factor :	>0.95
THDi :	<20%
Flicker Free :	Yes
Surge Protection :	10KV

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

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 :	4.2Kg.
Package dimension (H x W x D) :	22 cm x 39 cm x 39 cm
Gross weight :	5.5Kg.
Warranty :	1 Year

Model	Part No.	Power	TC
Gemo-S001	WDS-C02	15W (Max)	6500K, 5700K, 5000K

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

CONTROLLER



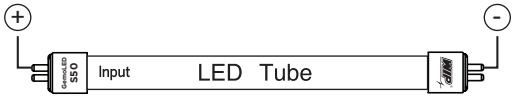
Part No.	Symbol of Sources	Lamp Size (T5 Lamps)	Power	Lux (Center)	CRI	Beam Angle	Description
T8S65-6		26.5 cm. (10.4 In.)	5W	2355 lux	98+	160°	D65 (Daylight 6500K) CRI98+
T8S57-6		26.5 cm. (10.4 In.)	5W	2237 lux	98+	160°	D57 (Noon Sky Daylight 5700K) CRI98+
T8S50-6	D50	26.5 cm. (10.4 In.)	5W	2263 lux	98+	160°	D50 (Noon Sky Daylight 5000K) CRI98+

Gems Color Grading Cabinet

Series : GemoLED Pro Model : Gemo-S001

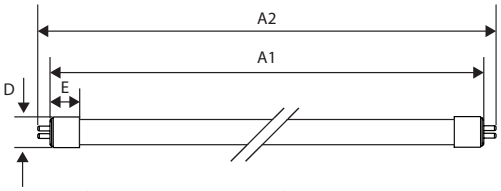
Being Developed in Collaboration With GIT

Wiring Diagram



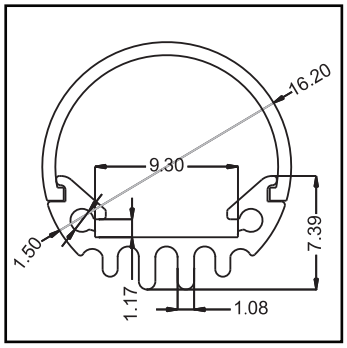
Double - end ไฟเข้า 2 ข้าง

Dimension



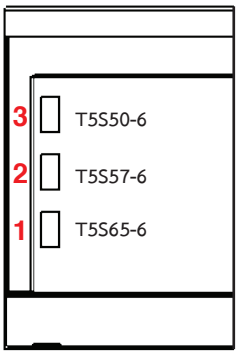
Dimension (mm.)±1.0

Product	A1	A2	D	E
T5	250	265	18	13

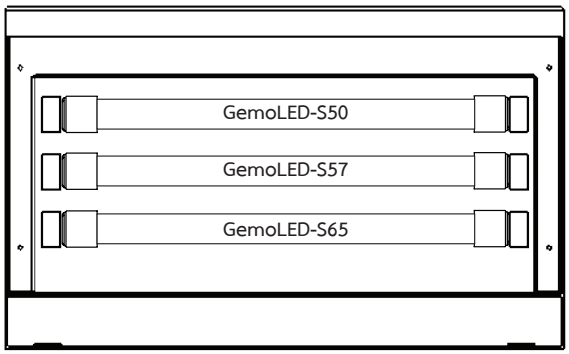


Position of Light source

Part No.

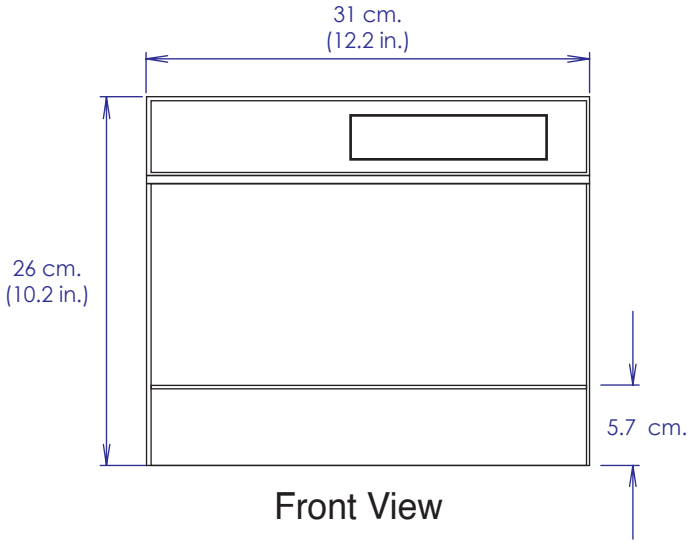


Front

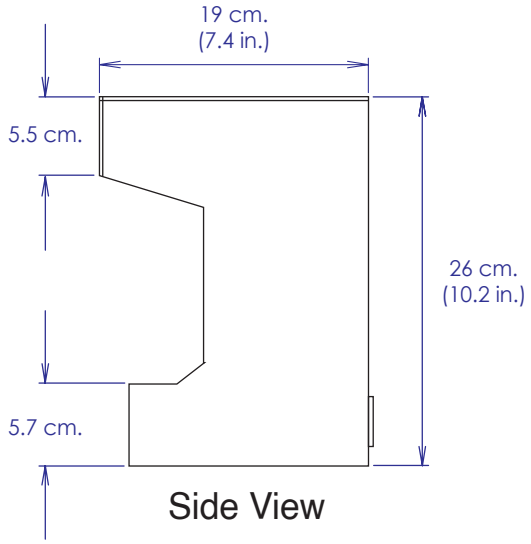


Front

Dimension



Front View



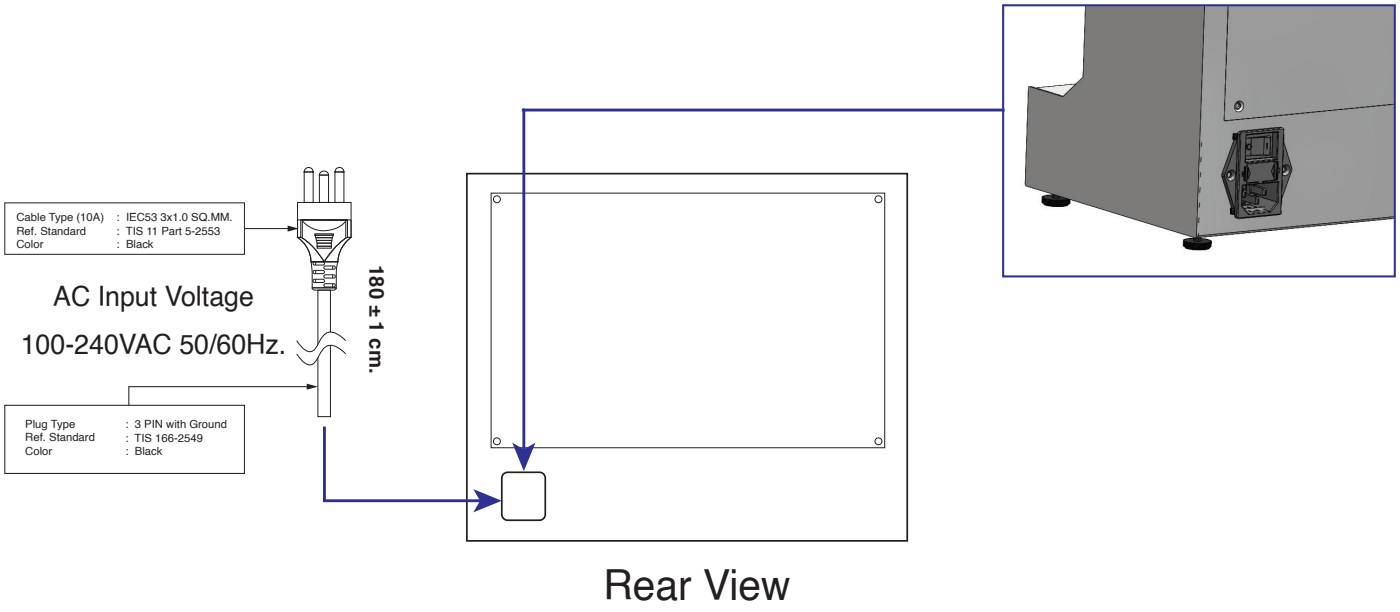
Side View

Gems Color Grading Cabinet

Series : GemoLED Pro Model : Gemo-S001

Being Developed in Collaboration With GIT

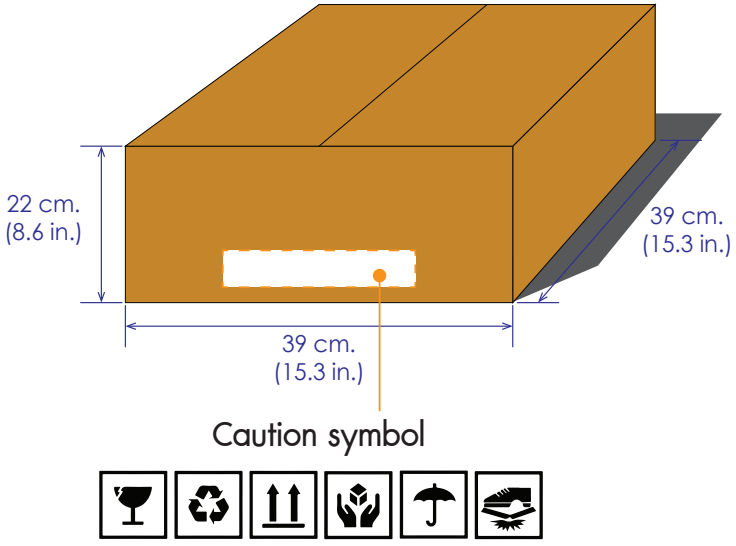
Wiring

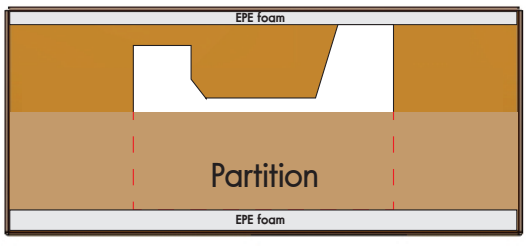


Package

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)





W.I.P. บริษัท ดับบลิว.ไอ.พี. อีเล็คทริค จำกัด
W.I.P. ELECTRIC CO., LTD.
55/5 Moo 3, Lampho Soi 3, High Way No. 345, Lampho, Bangbuathong District, Nonthaburi 11110 THAILAND
Tel. (+66)2-525-8825

Products of Thailand

Gems Color Grading T8 Tube

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

Spectrum Test Report

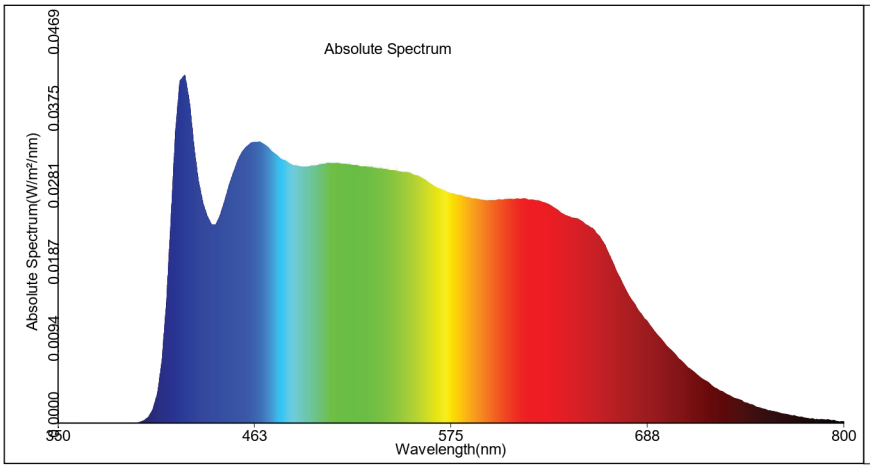


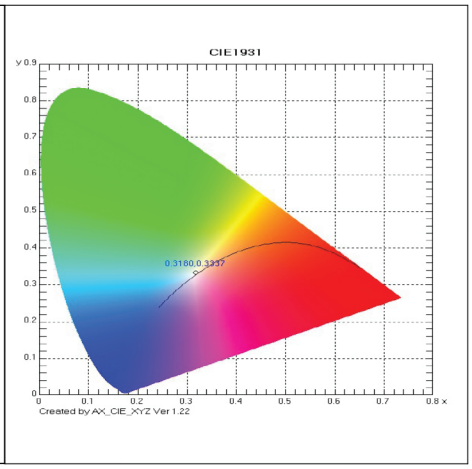
Sample Info.:

Name: GemoLED-S65
Type:S-1
SN:001
Manu:W.I.P. ELECTRIC CO., LTD.
Date:2025-12-11
Tester:Chanchai Chimwai
TMP:25.3 DEG
Humidity:65 %RH
Remark: GemoLED-S65

Meter state:

Test Meter: PLA-20 Sensitivity: High
Integral T: 1012 ms PeakAD Ip: 46505.2 Average times: 1





Test parameter:

E= 2355.3 lx E(fc)=218.891 fc

CIE x= 0.3180	CIE y= 0.3337	CIE u'=0.1998	CIE v'=0.4716
Tc=6196 K	Lp=422.0 nm	HW=250.4 nm	Ld=492.0 nm
Pur=5.1 %	Ratio_R=15.9 %	Ratio_G=76.9 %	Ratio_B=7.2 %
Duv=0.00296			

Ra=99.2	R1=100	R2=100	R3= 99
R4= 99	R5= 99	R6= 99	R7= 99
R8= 98	R9= 96	R10= 99	R11= 98
R12= 96	R13=100	R14= 99	R15= 99

SDCM= 3.7(F6500)
White Class:C78.377_6500K

E1(400-700nm)=8.7899 W/m² E2(380-780nm)=9.0957 W/m²

Ech-A=1.6263 W/m²	Ech-B=1.7658 W/m²	Ef=0.28582 W/m²
Eb=3.1075 W/m²	Ey=3.2924 W/m²	Er=2.3964 W/m²
Ep=7.343 Wphyto/m²	Erb_Ratio=0.77118	

PPFDf=1.7340E+000 µmol/(m²·s)
PPFD=39.744 µmol/(m²·s)

Gems Color Grading T8 Tube

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

Spectrum Test Report

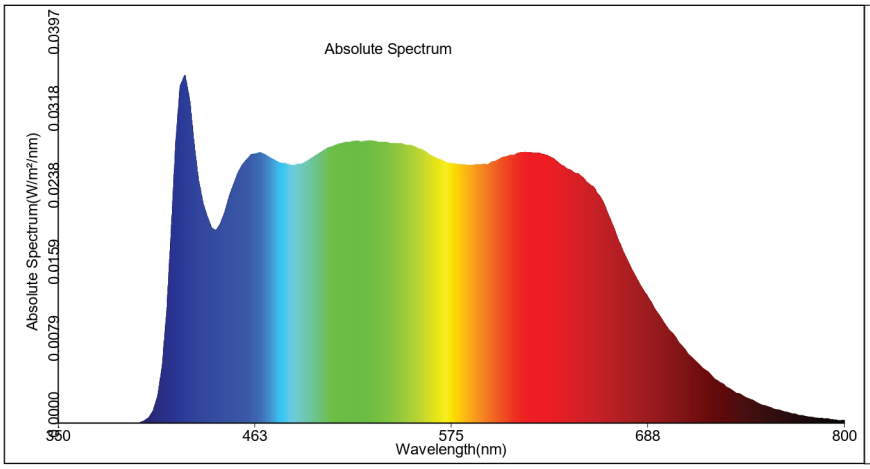
Sample Info.:

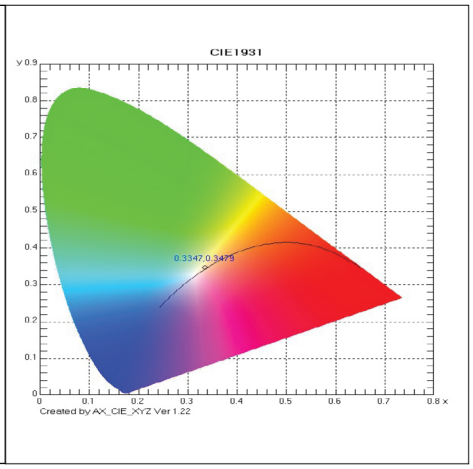
Name: GemoLED-S57
Type:S-1
SN:001
Manu:W.I.P. ELECTRIC CO., LTD.
Date:2025-12-11
Tester:Chanchai Chimwai
TMP:25.3 DEG
Humidity:65 %RH
Remark: GemoLED-S57



Meter state:

Test Meter: PLA-20 Sensitivity: High
Integral T: 1109 ms PeakAD Ip: 43227.4 Average times: 1





Test parameter:

E= 2237.6 lx E(fc)=207.954 fc

CIE x= 0.3347	CIE y= 0.3479	CIE u'=0.2058	CIE v'=0.4813
Tc=5408 K	Lp=422.0 nm	HW=258.8 nm	Ld=558.4 nm
Pur=4.8 %	Ratio_R=17.2 %	Ratio_G=76.4 %	Ratio_B=6.4 %
Duv=0.00251			

Ra=98.6	R1= 99	R2= 99	R3= 98
R4= 97	R5= 99	R6= 99	R7= 99
R8= 98	R9= 96	R10= 99	R11= 97
R12= 94	R13=100	R14= 99	R15= 98

SDCM= 3.4(5300K/ENM)
White Class:C78.377_5700K

E1(400-700nm)=8.1573 W/m² E2(380-780nm)=8.4802 W/m²

Ech-A=1.5214 W/m²	Ech-B=1.5559 W/m²	Ef=0.30174 W/m²
Eb=2.5857 W/m²	Ey=3.1028 W/m²	Er=2.4748 W/m²
Ep=6.8857 Wphyto/m²	Erb_Ratio=0.95712	

PPFDf=1.8306E+000 µmol/(m²·s)
PPFD=37.344 µmol/(m²·s)

Gems Color Grading T8 Tube

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

Spectrum Test Report

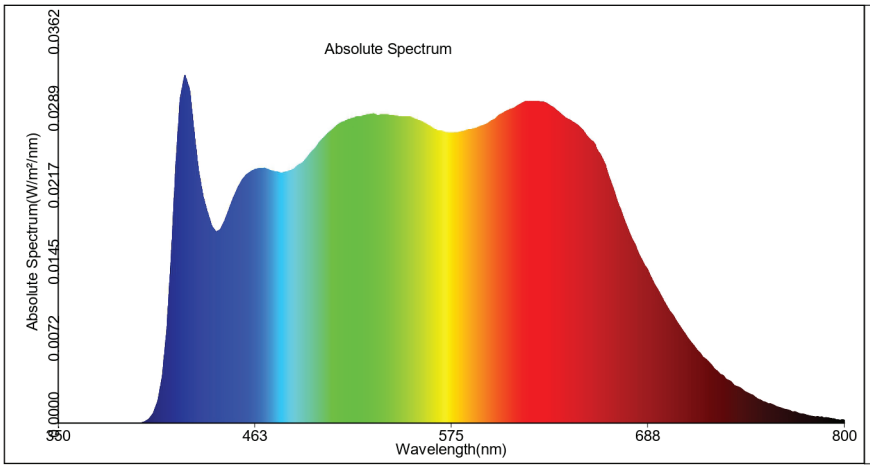


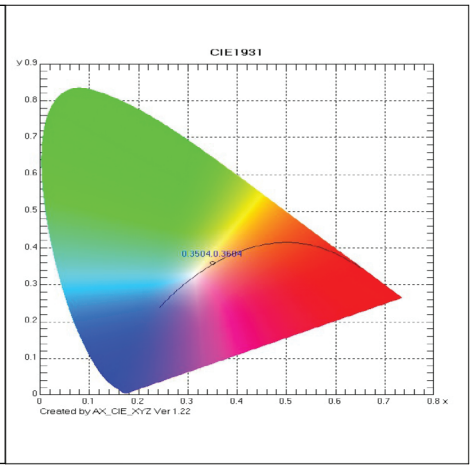
Sample Info.:

Name: GemoLED-S50
Type:S-1
SN:001
Manu:W.I.P. ELECTRIC CO., LTD.
Date:2025-12-11
Tester:Chanchai Chimwai
TMP:25.3 DEG
Humidity:65 %RH
Remark: GemoLED-S50

Meter state:

Test Meter: PLA-20 Sensitivity: High
Integral T: 1130 ms PeakAD Ip: 40141.3 Average times: 1





Test parameter:

E= 2263.8 lx E(fc)=210.39 fc

CIE x= 0.3504	CIE y= 0.3604	CIE u'=0.2116	CIE v'=0.4897
Tc=4838 K	Lp=423.0 nm	HW=266.5 nm	Ld=572.5 nm
Pur=13.3 %	Ratio_R=18.3 %	Ratio_G=76.1 %	Ratio_B=5.7 %
Duv=0.00229			

Ra=98.8	R1= 99	R2= 99	R3= 97
R4= 98	R5= 99	R6= 99	R7= 99
R8= 98	R9= 96	R10= 97	R11= 97
R12= 97	R13= 99	R14= 98	R15= 99

SDCM= 2.9(F5000)
White Class:C78.377_5000K

E1(400-700nm)=8.0879 W/m² E2(380-780nm)=8.4463 W/m²

Ech-A=1.5228 W/m²	Ech-B=1.4717 W/m²	Ef=0.33485 W/m²
Eb=2.2923 W/m²	Ey=3.1171 W/m²	Er=2.6846 W/m²
Ep=6.8935 Wphyto/m²	Erb_Ratio=1.1711	

PPFDf=2.0316E+000 µmol/(m²·s)
PPFD=37.447 µmol/(m²·s)