

Gems Color Grading Cabinet

Series : GemoLED Pro



Specification

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



Place of Origin	: Thailand
Jewelry tool & Equipment Type	: Testers & Measurements
Model	: Gemo-L001
Part No.	: WDL-A01
Product name	: Gems Color Grading Cabinet
Function	: Identification of brilliance reaction by LED Full Spectrum & High CRI98+ with Ultraviolet light
Input voltage	: 100-240VAC 50-60Hz
THDi	: <10%
Power consumption	: 174W (Max)
Surge protection	: 10KV
Light source	: LED T8 tube socket G13 x 8 : External driver (Constant Current) : Dimmable : Flicker free : Surge protection 2KV
LED	: Nichia
Lens material	: PMMA
Illuminants	: Daylight 6500K CRI98+ Warm White 2500K CRI90+ Noon sky Daylight 5700K CRI98+ Noon sky Daylight 5000K CRI98+ UVA
Control output	: 5 Relays SPDT : Contract Rating 5A/250Vac (resistive load)
Operating Temperature	: 0 °C to +50 °C
Humidity tolerance	: 0-90% w/o condensation
Enclosure material	: Aluminum with Powder Coating
Viewing area (H x W x D)	: 45 cm x 64 cm x 54 cm
Product dimension (H x W x D)	: 58 cm x 72 cm x 64 cm
Weight	: 11.5 Kg.
Warranty	: 1 Year

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)	: IEC61347-1, 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

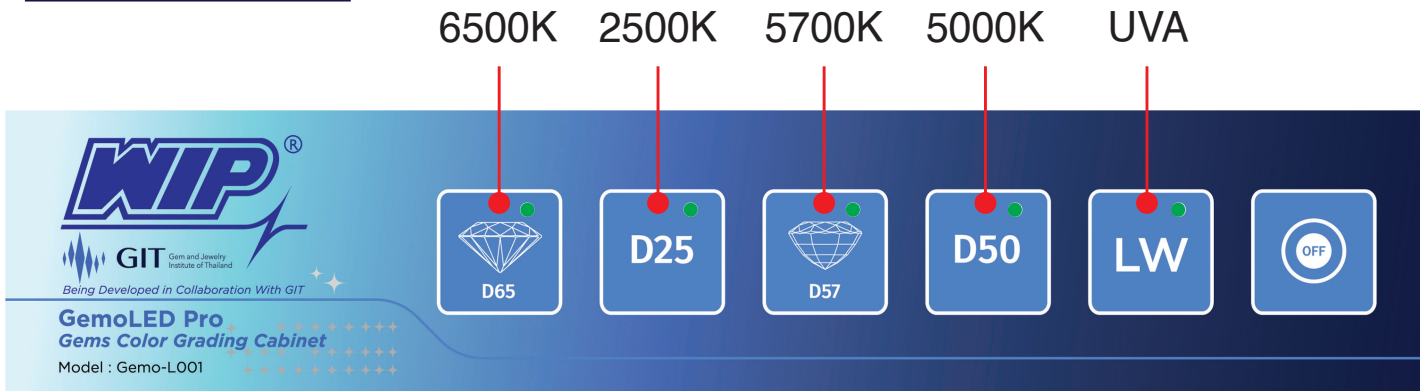
EMC Emission

(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, EN61000-3-3, 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

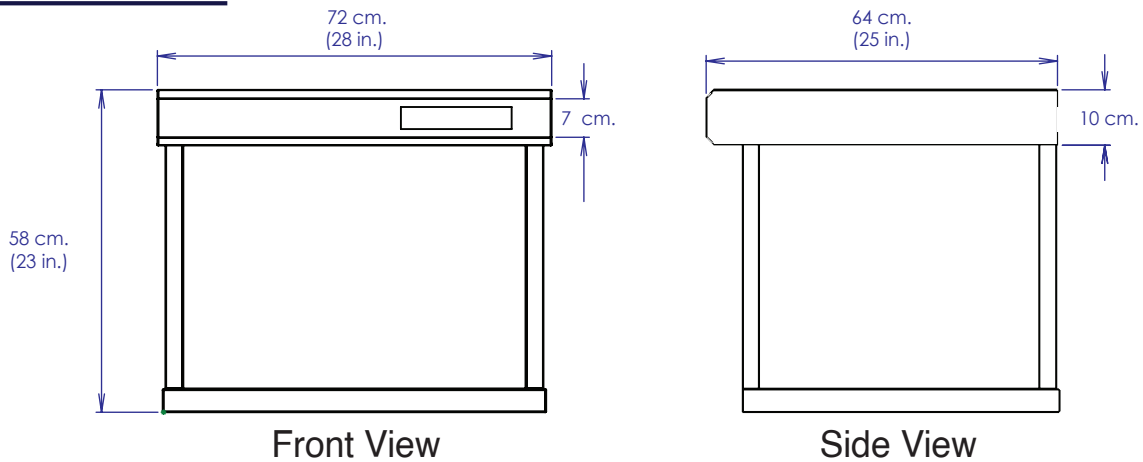
EN61000-4-2,3,4,5,6,8,11, EN61547

Controller

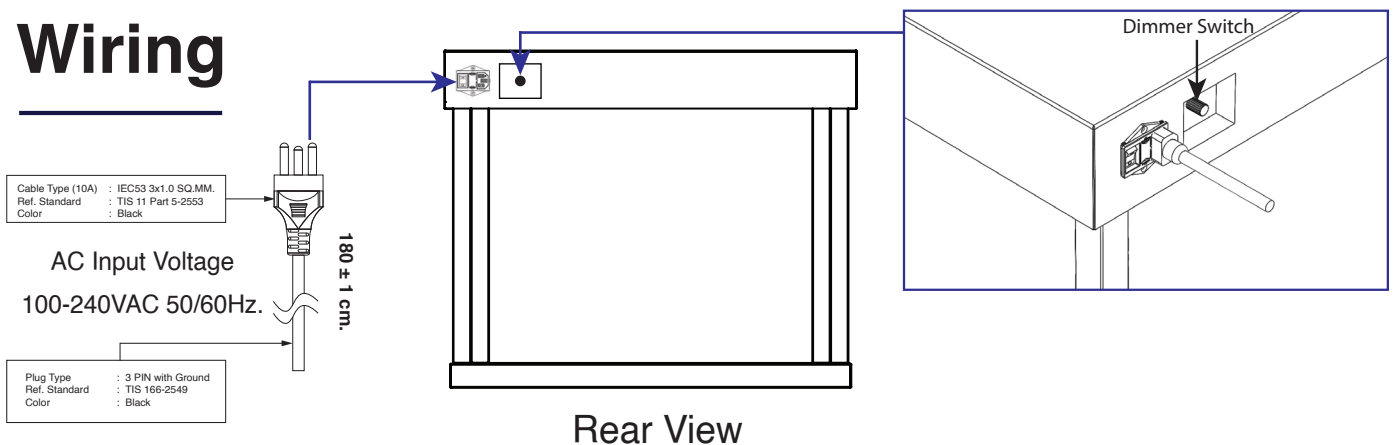


Part No.	Position of Light sources	Lamp Size (T8 Lamps)	Power	Lux	Description
T8L65-20	First	60 cm. (24 In.)	19W x 2	2627 lux	D65 (Daylight 6500K) CRI98+
T8L25-25	Second	60 cm. (24 In.)	25W	4032 lux	D25 (Warm White 2500K) CRI90+
T8L57-20	Third	60 cm. (24 In.)	19W x 2	2891 lux	D57 (Noon Sky Daylight 5700K) CRI98+
T8L50-20	Fourth	60 cm. (24 In.)	19W x 2	2560 lux	D50 (Noon Sky Daylight 5000K) CRI98+
T8LLW-35	Fifth	60 cm. (24 In.)	35W	9.2 lux	LW (UVA)

Dimension



Wiring

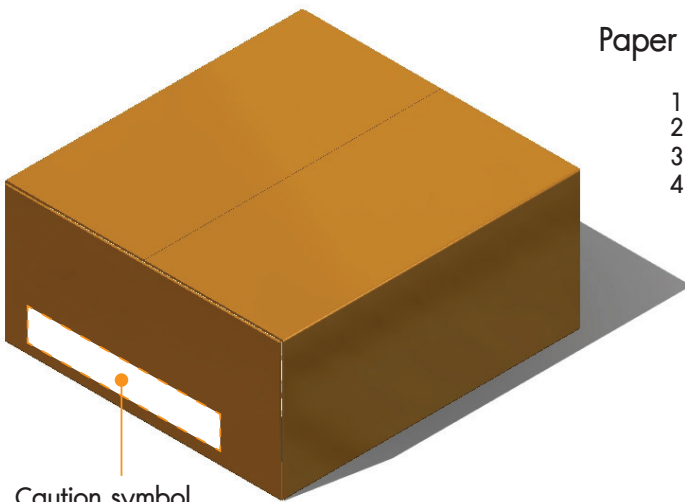


Package

Packing

Packaging details : Foam + carton
 Selling units : Single item
 Single package size (H x W x D) : 35cm x 79cm x 72cm
 Single gross weight : 16.5 Kg

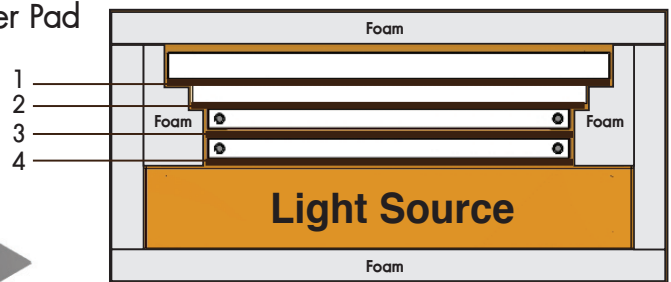
Each layer will have a paper pads, 4pads in total.
 Type of paper : Kraft paper (KA185)



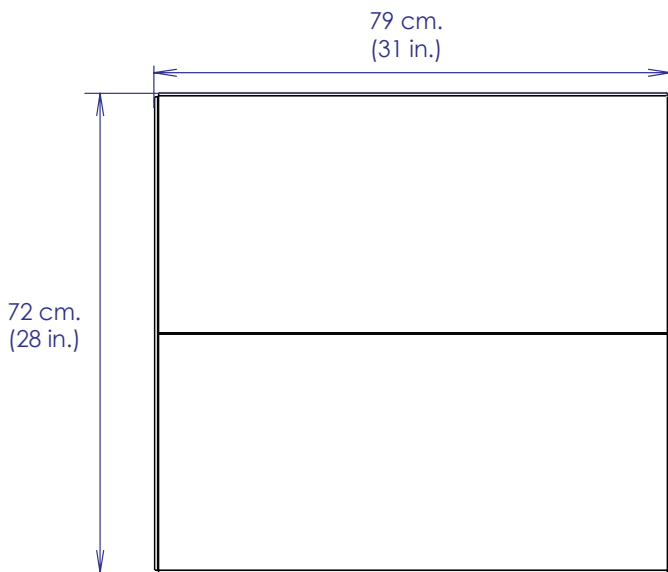
Caution symbol



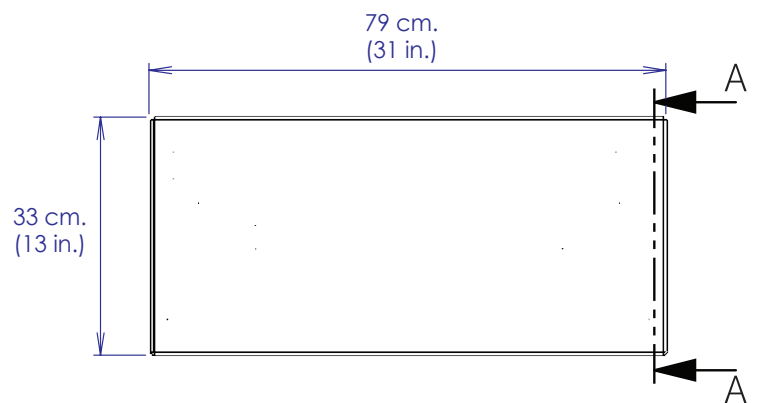
Paper Pad



Section A - A



Top View



Side View

Products : Gems Color Grading T8 Tube

Model : GemoLED-L65

Part No. : T8L65-20 (For Cabinet Large Size)

Description : Gems Color Grading T8 Tube the higher CRI 98+, provide better natural color with more depth for Model : Gemo-L001

Tube length : Ø 28.8mm. x 600 mm.

Material : Aluminum Extrusion

Lens : PMMA

Socket : G13

Protection : IP30

Light Source

LED Chip : Nichia

Wattage : 19W x 2

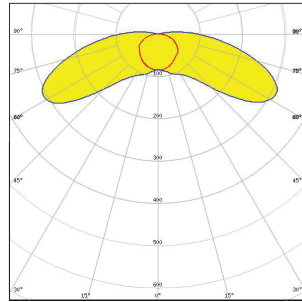
CCT : 6500K ±300K

Beam Angle : ~165° + 130° extra wide beam for uplighting

Dim : Dimmable

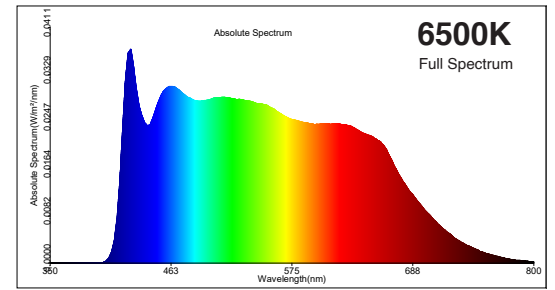
Input Voltage : 42VDC 950mA

Warranty : 1 Year



Patent: 1901005578

Made in Thailand



Products : Gems Color Grading T8 Tube

Model : GemoLED-L25

Part No. : T8L25-25 (For Cabinet Large Size)

Description : Gems Color Grading T8 Tube the higher CRI 90+, provide better natural color with more depth for Model : Gemo-L001

Tube length : Ø 28.8mm. x 600 mm.

Material : Aluminum Extrusion

Lens : PMMA

Socket : G13

Protection : IP30

Light Source

LED Chip : Nichia

Wattage : 25W

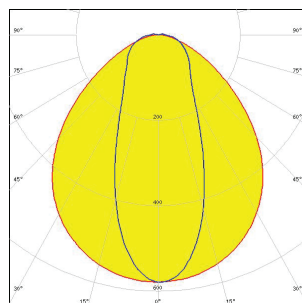
CCT : 2500K ±300K

Beam Angle : ~40° + 100° Oval beam

Dim : Dimmable

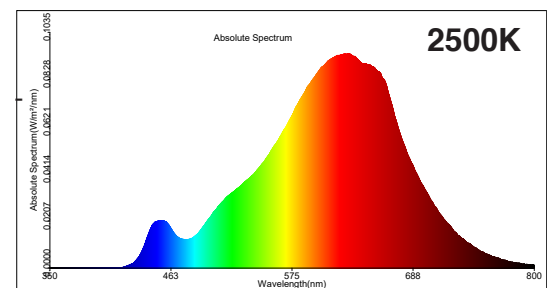
Input Voltage : 42VDC 600mA

Warranty : 1 Year



Patent: 1901005578

Made in Thailand



Products : Gems Color Grading T8 Tube

Model : GemoLED-L57

Part No. : T8L57-20 (For Cabinet Large Size)

Description : Gems Color Grading T8 Tube the higher CRI 98+, provide better natural color with more depth for Model : Gemo-L001

Tube length : Ø 28.8mm. x 600 mm.

Material : Aluminum Extrusion

Lens : PMMA

Socket : G13

Protection : IP30

Light Source

LED Chip : Nichia

Wattage : 19W x 2

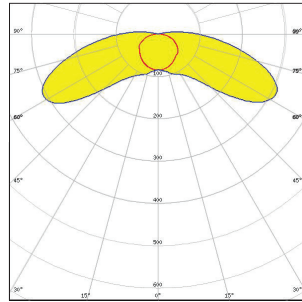
CCT : 5700K ±300K

Beam Angle : ~165° + 130° extra wide beam for uplighting

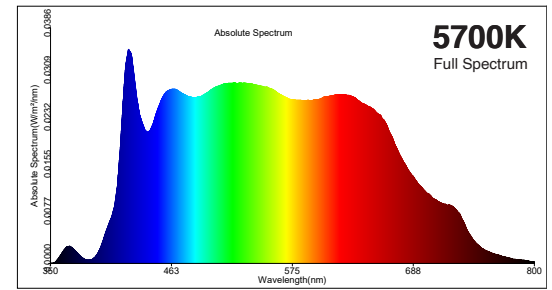
Dim : Dimmable

Input Voltage : 42VDC 950mA

Warranty : 1 Year



Patent: 1901005578



Products : Gems Color Grading T8 Tube

Model : GemoLED-L50

Part No. : T8L50-20 (For Cabinet Large Size)

Description : Gems Color Grading T8 Tube the higher CRI 98+, provide better natural color with more depth for Model : Gemo-L001

Tube length : Ø 28.8mm. x 600 mm.

Material : Aluminum Extrusion

Lens : PMMA

Socket : G13

Protection : IP30

Light Source

LED Chip : Nichia

Wattage : 19W x 2

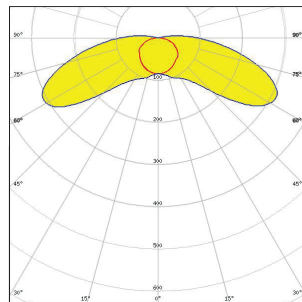
CCT : 5000K ±300K

Beam Angle : ~165° + 130° extra wide beam for uplighting

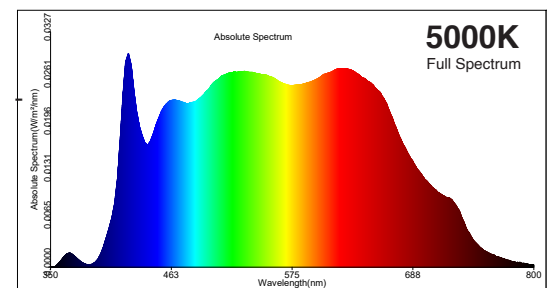
Dim : Dimmable

Input Voltage : 42VDC 950mA

Warranty : 1 Year



Patent: 1901005578



Products : Gems Color Grading T8 Tube

Model : GemoLED-LLW

Part No. : T8LLW-35 (For Cabinet Large Size)

Description : Gems Color Grading T8 Tube provide better natural color with more depth for Model : Gemo-L001

Tube length : Ø 28.8mm. x 600 mm.

Material : Aluminum Extrusion

Lens : PMMA

Socket : G13

Protection : IP30

Light Source

LED Chip : Nichia

Wattage : 35W

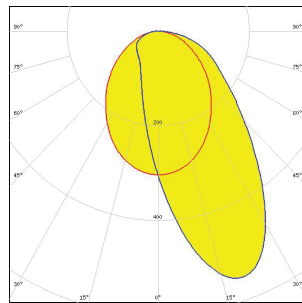
CCT : UVA

Beam Angle : Asymmetric beam for wall washing

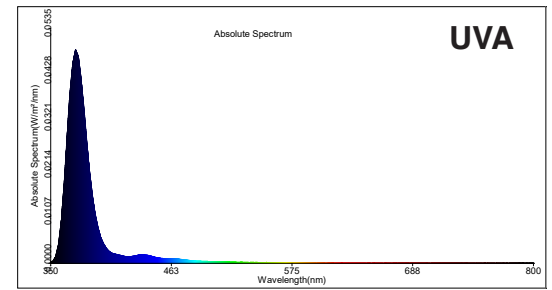
Dim : Dimmable

Input Voltage : 42VDC 830mA

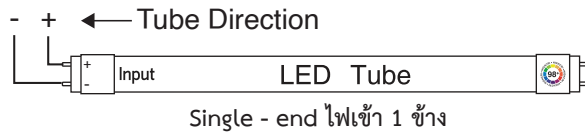
Warranty : 1 Year



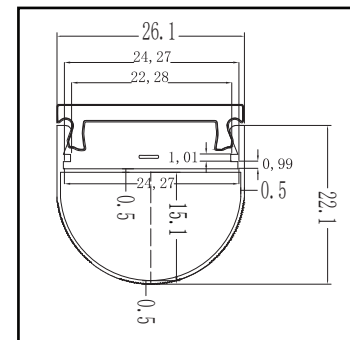
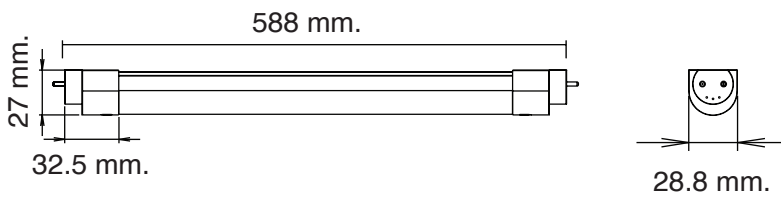
Patent: 1901005578



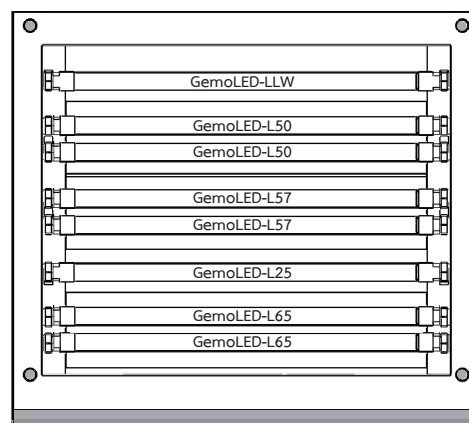
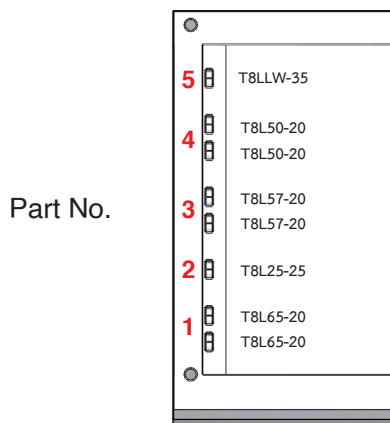
Wiring Diagram



Dimension



Position of Light source



Front

Front