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 MiT6709000101

Model : Gemo-M001 | Part No. : WDM-B01







NICHIA LEDiL 10KV SURGE PROTECTION Made in Thailand MiT6709000101 RoHS Green Industry TIS 1955 2551 Products of Thailand

Eff. Date 15/09/25
Rev.3

Gems Color Grading Cabinet

Series : GemoLED Pro Model : Gemo-M001

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, allows the addition of a customizable percentage of UV-light



FEATURES

- Available in 6500K, 5700K and UVA
- 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 Full Spectrum :	Nichia
CRI :	98+
R9 :	95+
LED Lifetime (L70) :	50,000 hours
Light distribution :	~165° + 130° extra wide beam for uplighting,
	Asymmetric beam for wall washing
Lens Material :	PMMA (Polymethyl Methacrylate)

MECHANICAL SPECIFICATIONS

Enclosure material :	Aluminum with Powder Coating
AL rail material :	Aluminum Extrusion
Viewing area (H x W x D) :	31 cm x 47 cm x 23 cm
Product dimension (H x W x D) :	41 cm x 53 cm x 28 cm
Weight :	5.50 Kg.
Package dimension (H x W x D) :	24 cm x 33 cm x 58 cm
Gross weight :	6.00 Kg.
Warranty :	1 Year

ELECTRICAL SPECIFICATIONS

Lamp base :	G13 Bi-pin
Power :	45W (Max)
Input voltage :	100 - 240 VAC
Input frequency :	50 - 60 Hz.
Power factor :	>0.95
THDi :	<10%
Flicker Free :	Yes
Dimmable :	Yes
Surge Protection :	10KV

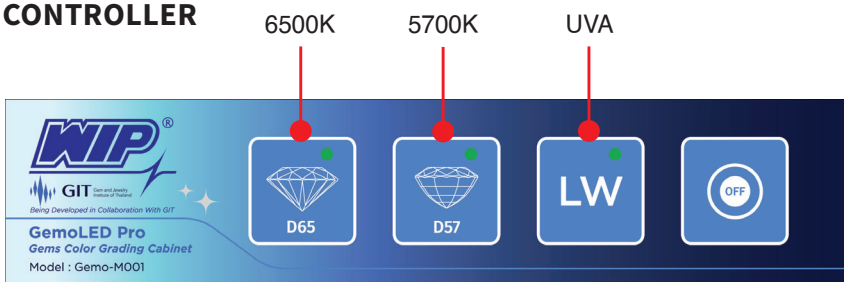
TECHNICAL SPECIFICATIONS

Lens material :	PMMA
Illuminants :	Daylight 6500K CRI98+
	Noon Sky Daylight 5700K CRI98+
	UVA
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

Model	Part No.	Power	TC
Gemo-M001	WDM-B01	45W (Max)	6500K, 5700K, UVA

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 Uion)	: EN61347-1, EN61347-2-13, EN62384
(Korea)	: KC61347-1, KC61347-2-13
(Russia)	: IEC6137-1, 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, EN6100-3-3, 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



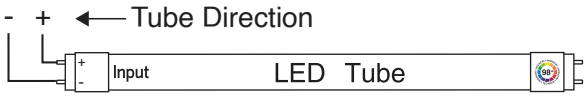
Part No.	Symbol of Sources	Lamp Size (T8 Lamps)	Power	Input Voltage	Lux (Center) 1st Floor	Lux (Center) 2nd Floor	CRI	Lens	Beam Angle	Surge Protection	Description
T8M65-15		42 cm. (20 In.)	15W (Max)	42 VDC	4726 lux	2072 lux	98+	PMMA	~165° + 130°	2KV	D65 (Daylight 6500K) CRI98+
T8M57-15		42 cm. (20 In.)	15W (Max)	42 VDC	4858lux	2027 lux	98+	PMMA	~165° + 130°	2KV	D57 (Noon Sky Daylight 5700K) CRI98+
T8MLW-15	LW	42 cm. (20 In.)	15W (Max)	42 VDC	22 lux	13 lux	-	PMMA	Asymmetric beam for wall washing	2KV	LW (UVA)

Gems Color Grading Cabinet

Series : GemoLED Pro Model : Gemo-M001

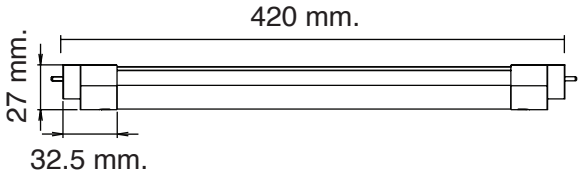
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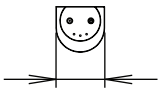
Wiring Diagram

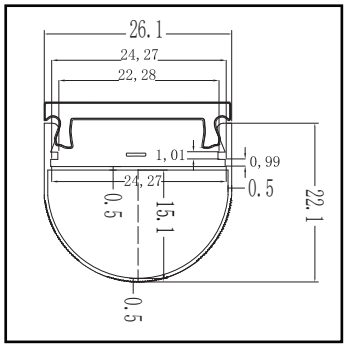


Single - end ไฟเข้า 1 ข้าง

Dimension

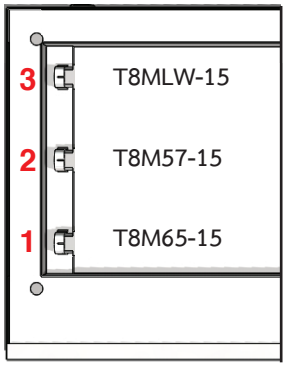




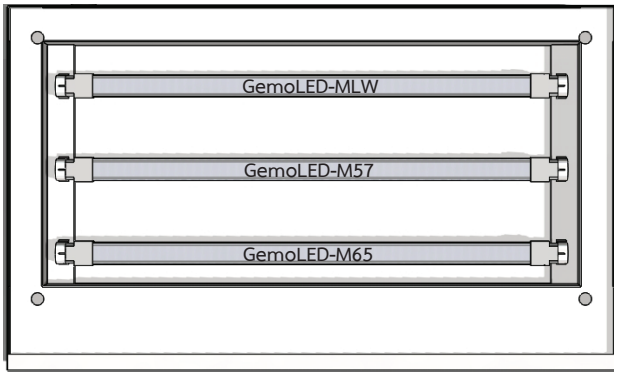


Position of Light source

Part No.

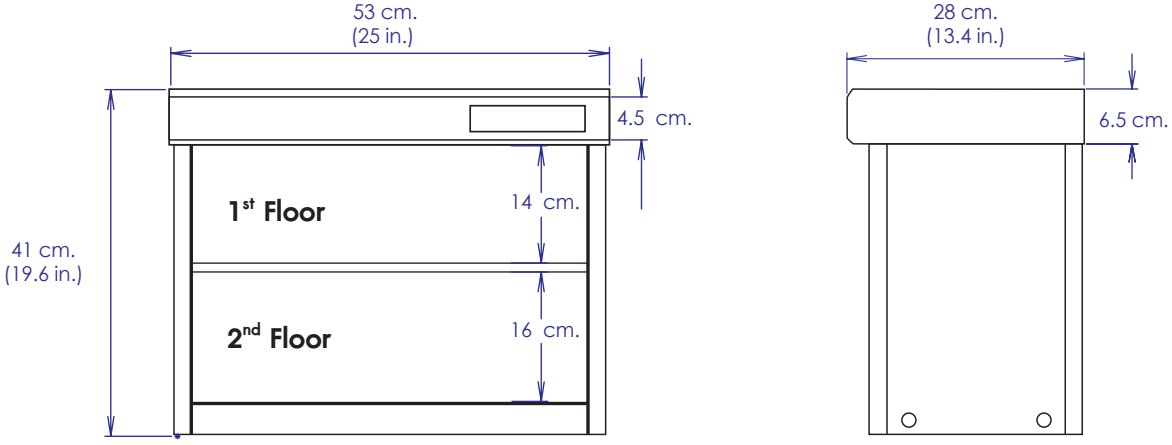


Front



Front

Dimension



Front View

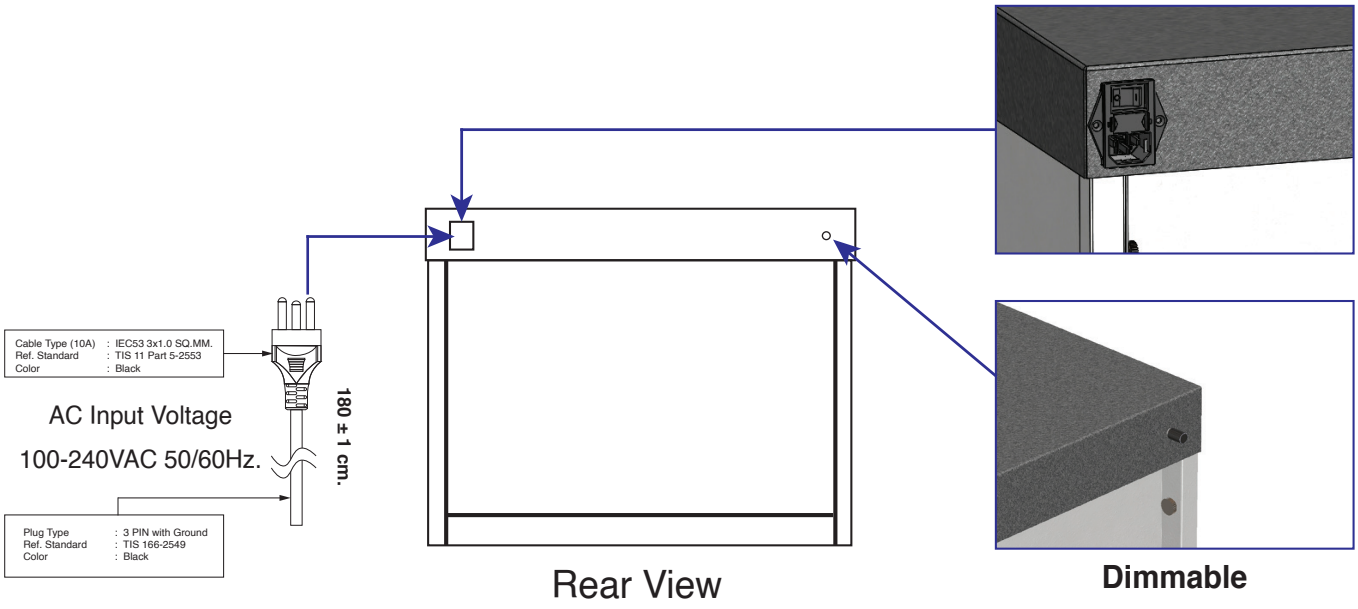
Side View

Gems Color Grading Cabinet

Series : GemoLED Pro Model : Gemo-M001

Being Developed in Collaboration With GIT

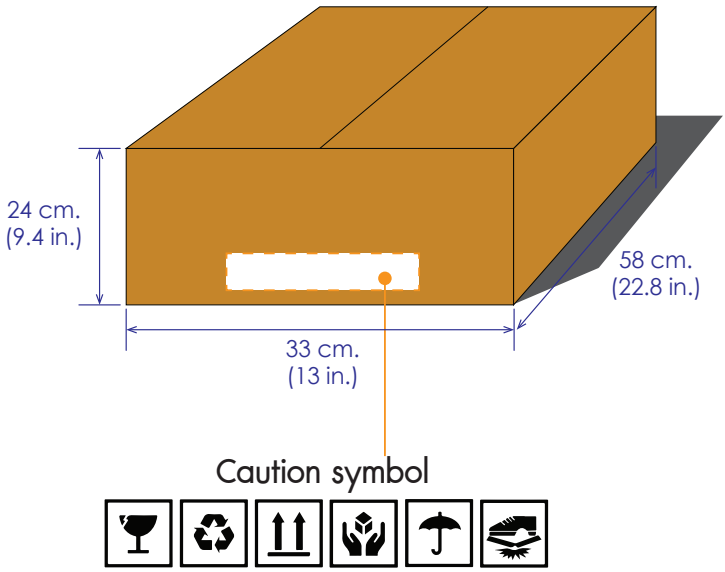
Wiring



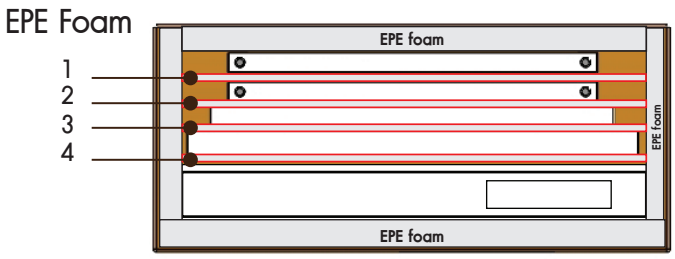
Package

Packing

Packaging details	: EPE foam + carton
Selling units	: Single item
Single package size (H x W x D)	: 24cm x 33cm x 58cm
Single gross weight	: 5.9 Kg



Each layer will have a EPE foam, 4pads in total.
Type of foam : EPE foam



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-M65 Part No. : T8M65-15

Spectrum Test Report

Sample Info.:

Name: GemoLED-M65

Type:S-1

SN:001

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

Date:2024-07-17

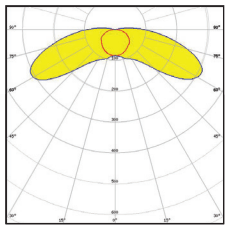
Tester:Chanchai Chimwai

TMP:25.3 DEG

Humidity:65 %RH

Remark: GemoLED-M65



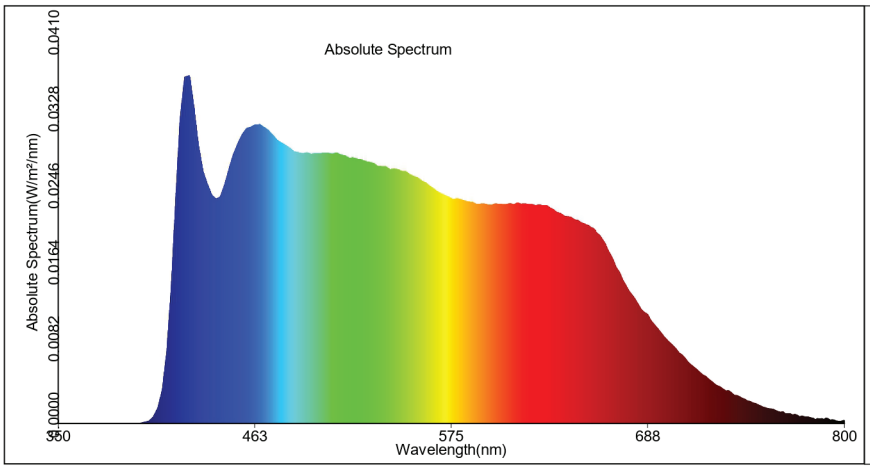


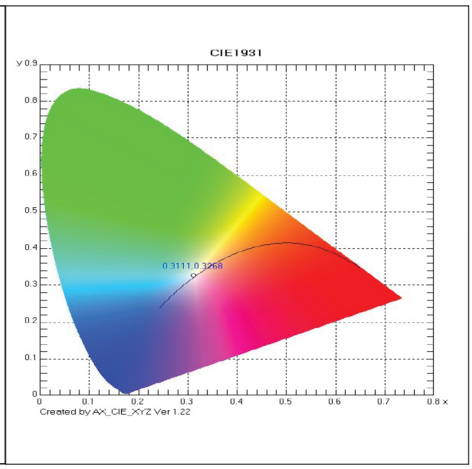
~165° + 130° extra wide beam for uplighting

Meter state:

Test Meter: PLA-20 Sensitivity: High

Integral T: 998 ms PeakAD Ip: 40122.6 Average times: 1





Test parameter:

E= 2071.9 lx E(fc)=192.553 fc

CIE x= 0.3111	CIE y= 0.3268	CIE u'=0.1975	CIE v'=0.4669
Tc=6611 K	Lp=425.0 nm	HW=248.6 nm	Ld=487.9 nm
Pur=8.0 %	Ratio_R=15.7 %	Ratio_G=76.7 %	Ratio_B=7.6 %
Duv=0.00287			

Ra=98.8	R1= 98	R2= 99	R3= 99
R4= 98	R5= 98	R6= 99	R7=100
R8= 99	R9= 97	R10= 98	R11= 97
R12= 96	R13= 99	R14= 99	R15= 99

SDCM= 5.2(F6500)

E1(400-700nm)=7.82 W/m² E2(380-780nm)=8.1199 W/m²

Ech-A=1.4258 W/m²	Ech-B=1.6017 W/m²	Ef=0.27928 W/m²
Eb=2.8194 W/m²	Ey=2.9009 W/m²	Er=2.1055 W/m²
Ep=6.5177 Wphyto/m²	Erb_Ratio=0.74678	

PPFDf=1.6951E+000 µmol/(m²·s)

PPFD=35.321 µmol/(m²·s)

Gems Color Grading T8 Tube

Model : GemoLED-M57 Part No. : T8M57-15

Spectrum Test Report



Sample Info.:

Name: GemoLED-M57

Type:S-1

SN:001

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

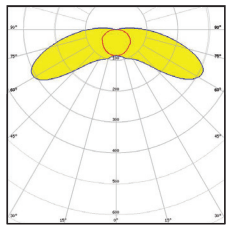
Date:2024-07-16

Tester:Chanchai Chimwai

TMP:25.3 DEG

Humidity:65 %RH

Remark: GemoLED-M57

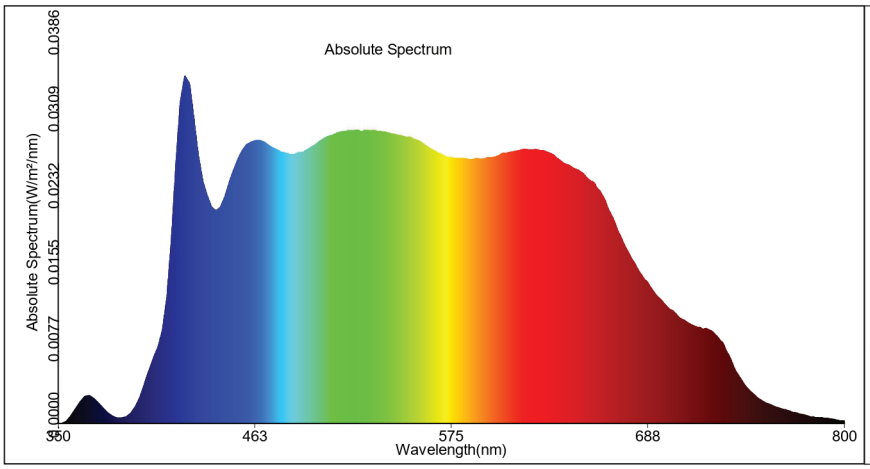


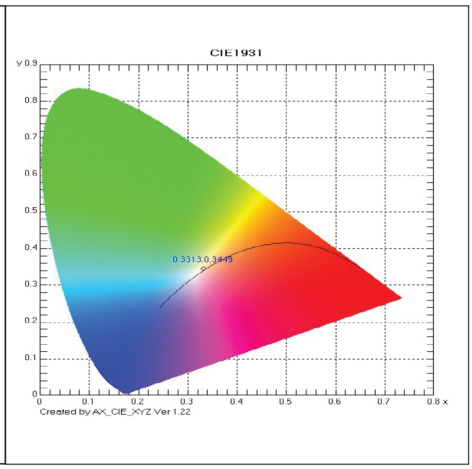
~165° + 130° extra wide beam for uplighting

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	

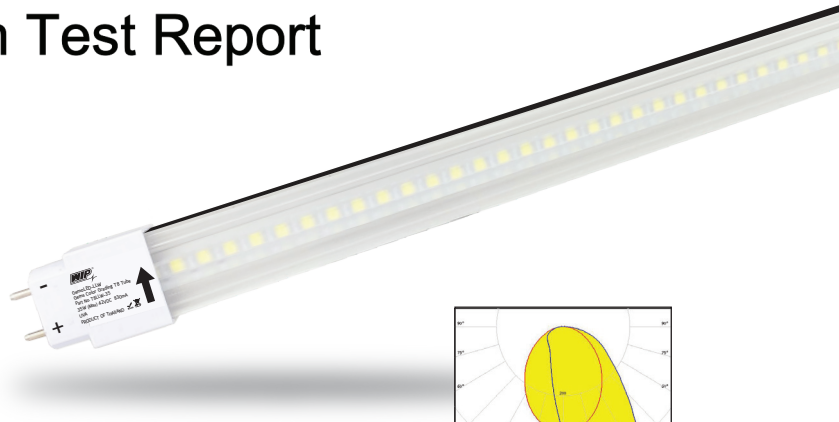
PPFDf=2.7999E+000 μmol/(m²·s)

PPFD=37.902 μmol/(m²·s)

Gems Color Grading T8 Tube

Model : GemoLED-MLW Part No. : T8MLW-15

Spectrum Test Report



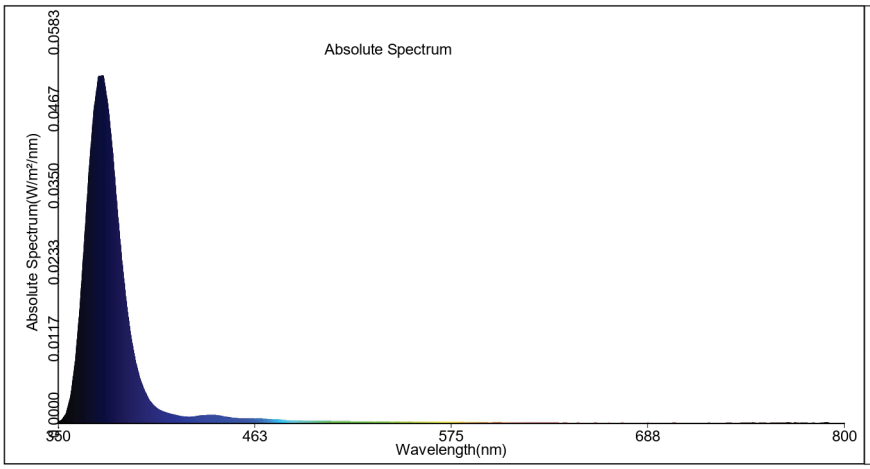
Asymmetric beam for wall washing

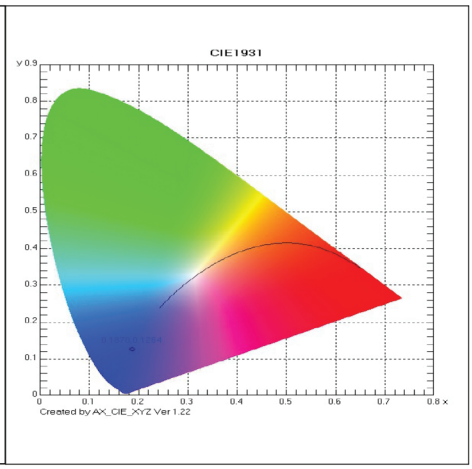
Sample Info.:

Name: GemoLED-MLW
Type:S-1
SN:001
Manu:W.I.P. ELECTRIC CO., LTD.
Date:2024-07-18
Tester:Chanchai Chimwai
TMP:25.3 DEG
Humidity:65 %RH
Remark: GemoLED-MLW

Meter state:

Test Meter: PLA-20 Sensitivity: High
Integral T: 1035 ms PeakAD Ip: 43750.4 Average times: 1





Test parameter:

E= 12.8 lx E(fc)=1.19205 fc

CIE x= 0.1870	CIE y= 0.1264	CIE u'=0.1806	CIE v'=0.2746
Tc=100000 K	Lp=375.0 nm	HW=21.0 nm	Ld=467.3 nm
Pur=72.2 %	Ratio_R=5.7 %	Ratio_G=74.6 %	Ratio_B=19.7 %
Duv=0.08290			

Ra=54.2	R1= 63	R2= 85	R3= 31
R4= 34	R5= 69	R6= 64	R7= 56
R8= 32	R9=-93	R10= 53	R11= 29
R12= 31	R13= 81	R14= 62	R15= 61

SDCM=90.1(F5000)

E1(400-700nm)=0.12962 W/m² E2(380-780nm)=0.55716 W/m²

Ech-A=0.042097 W/m²	Ech-B=0.036941 W/m²	Ef=0.0011994 W/m²
Eb=0.10864 W/m²	Ey=0.018052 W/m²	Er=0.0029742 W/m²
Ep=0.69546 Wphyto/m²	Erb_Ratio=0.027378	

PPFDf=7.4775E-003 μmol/(m²·s)
PPFD=0.48926 μmol/(m²·s)