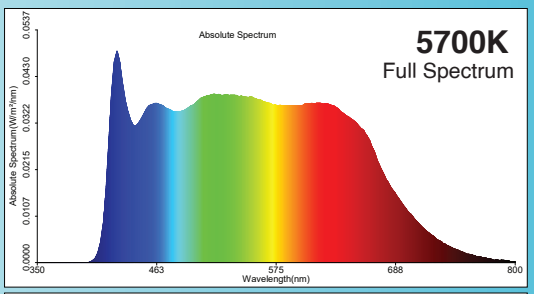
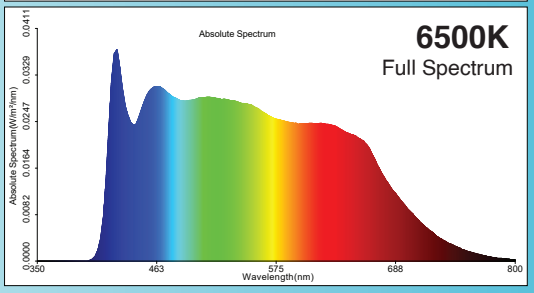
The Light You Can Trust



CONTACT US

Spectrum





LED T8 Natural Light

High CRI

98+ FLICKER FREE LED

FEATURES

- Available in 5700K or 6500K to truly simulate natural sunlight or daylight
- 98+ CRI and R9 > 90
- 4-ft length; T8 shape with G13 bi-pin
- 2200 lumens to replace 40W fluorescent
- No mercury, instant-on
- No IR or UV
- 50K hour lifetime and 2 years warranty
- Flicker free
- For indoor use only





Made in Thailand RoHS Green Industry CE TIS.1955-2551 TIS.2779-2562 Products of Thailand

Eff. Date 24/09/26
Rev.3

LED T8 Natural Light High CRI

WIP LED lamps are now available in a 4-ft T8 tube form factor. Featuring 98+ CRI and 5700K or 6500K, Flicker Free, the light output is extremely similar to natural sunlight / daylight, making these lamps a perfect enhancement to your art studio or work space.

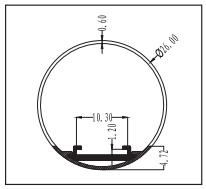
Our T8 tubes are configured to work as a retrofit in virtually any existing 4-ft T8 fluorescent fixture, making installation quick and easy. No ballast rewiring is necessary - simply remove the fluorescent lamp and install the Hi Led LED lamp.



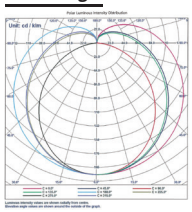
FEATURES

- Available in 5700K or 6500K to truly simulate natural sunlight or daylight
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Tube



Beam Angle



TIS.1955-2551
TIS.2779-2562

PHOTOMETRIC SPECIFICATIONS

Power	20W		18W		10W	
Flicker Free :	Yes	None	Yes	None	Yes	None
Light output :	2300 lm	2400 lm	2100 lm	2200 lm	1170 lm	1200 lm
Luminous efficacy :	117 lm/W	122 lm/W	117 lm/W	122 lm/W	117 lm/W	122 lm/W
Light distribution :	150 degrees		150 degrees		150 degrees	
LED Lifetime (L70) :	50,000 hours		50,000 hours		50,000 hours	
CRI Ra :	98+		98+		98+	
CRI R9 :	90+		90+		90+	

ELECTRICAL SPECIFICATIONS

Lamp base :	G13		
Power :	20W	18W	10W
Input voltage :	100 - 250 VAC		
Input frequency :	50 - 60 Hz.		
Power factor :	>0.95		

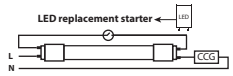
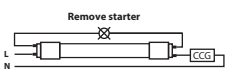
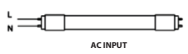
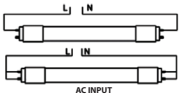
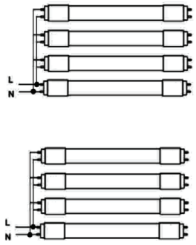
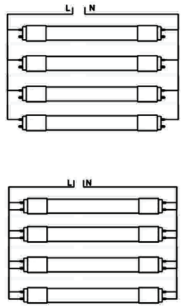
MECHANICAL SPECIFICATIONS

	20W, 18W	10W
Lenght :	47.25 in (1200 mm.)	23.62 in (600 mm.)
Diameter :	1.1 in (28 mm.)	1.1 in (28 mm.)
Lamp meterial :	PC (Milky)	PC (Milky)

INSTALLATION INSTRUCTIONS

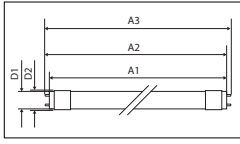
Unlike incandescent and halogen lamps, fluorescent bulbs require a separate device called a ballast to operate. Most fluorescent fixtures have a ballast device installed inside. Some fluorescent fixtures which already have been retrofitted with LED lamps may already have the ballast removed or bypassed.

Our T8 LED lamps are designed to be plug-and-play ready with 3-in-1 compatibility. This means that our lamps will work in any T8 fluorescent fixture, regardless of whether or not the fixture has been rewired for LED compatibility. The three installation methods are shown below:

Metthod	Single-Ended Direct-Wire	Double-Ended Direct-Wire
With Ballast		
Single Lamp		
Multiple Lamps (Diagram for four lamps shown. Use similar parallel wiring for two and three lamp fixtures.)		

Model	Part No.	Power	TC
HI LED-0600	T8D57-10	10W	5700K
HI LED-1200	T8D57-18	18W	5700K
HI LED-1200	T8D57-20	20W	5700K
HI LED-0600	T8D65-10	10W	6500K
HI LED-1200	T8D65-18	18W	6500K
HI LED-1200	T8D65-20	20W	6500K

International Electrotechnical Commission - IEC	
IEC 55015	: Radio disturbance characteristics
IEC 60061	: G13 Standard Dimension Test
IEC 60529	: Ingress Protection
IEC 60598-1	: General Requirements and Tests
IEC 61000-3-2	: Harmonic Emission
IEC 61347-2-13	: General and salfety-Lamp System Short Circuit Protection
IEC 61000-3-3	: Limitation of voltage
IEC 61000-4-5	: Surge Protection
IEC 61195	: Compressive Strength
IEC 61547	: EMC : Conducted immunity
IEC 62776	: Fault Condition
IEC 62471	: Photobiological safety of lamps and lamp systems



Dimension (mm.) ± 1.0

Product	A1	A2	A3	D1	D2
T8 20 W	1198	1205	1212	26	28.5
T8 10 W	588	595	602	26	28.5

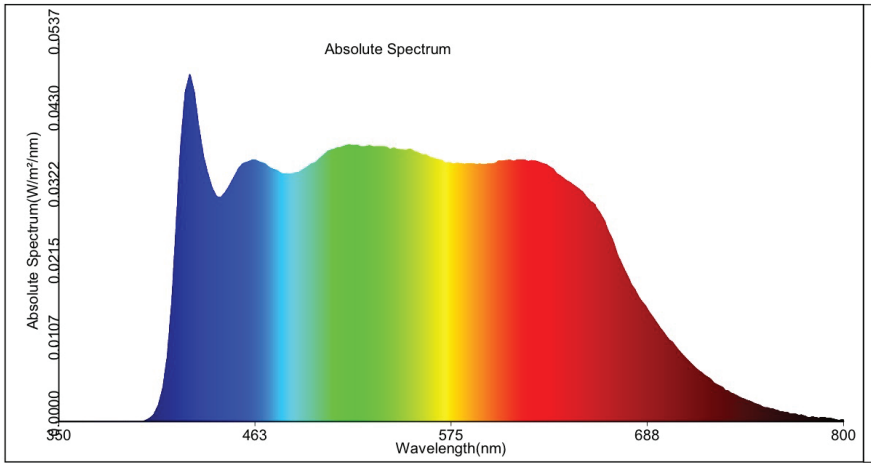
Spectrum Test Report

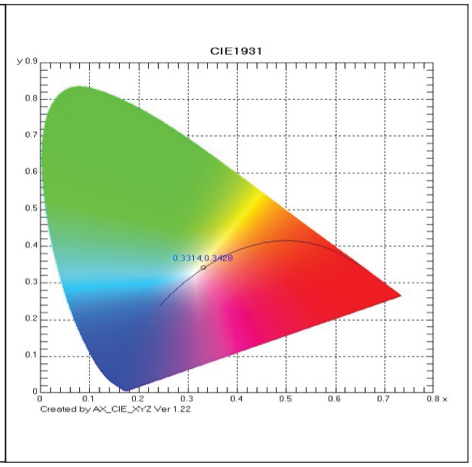
Sample Info.:

Name:WIP Hi-LED T8 20W 5700K CRI98
Type:S-1
SN:001
Manu:W.I.P. ELECTRIC CO., LTD.
Date:2024-08-28
Tester:Chanchai Chimwai
TMP:25.3 DEG
Humidity:65 %RH
Remark:WIP Hi-LED T8 20W 5700K CRI98

Meter state:

Test Meter: PLA-20 Sensitivity: High
Integral T: 835 ms PeakAD Ip: 43931.9 Average times: 1





Test parameter:

E= 2971.5 lx E(fc)=276.166 fc

CIE x= 0.3314	CIE y= 0.3428	CIE u'=0.2055	CIE v'=0.4782
Tc=5545 K	Lp=425.0 nm	HW=252.6 nm	Ld=543.2 nm
Pur=2.3 %	Ratio_R=16.9 %	Ratio_G=76.7 %	Ratio_B=6.4 %
Duv=0.00131			

Ra=97.8	R1=100	R2= 99	R3= 97
R4= 96	R5= 99	R6= 99	R7= 97
R8= 96	R9= 91	R10= 97	R11= 96
R12= 94	R13= 99	R14= 98	R15= 97

SDCM= 4.0(5300K/ENM)
White Class:C78.377_5700K

E1(400-700nm)=10.735 W/m² E2(380-780nm)=11.117 W/m²

Ech-A=1.976 W/m²	Ech-B=2.0919 W/m²	Ef=0.35848 W/m²
Eb=3.4495 W/m²	Ey=4.1373 W/m²	Er=3.1566 W/m²
Ep=9.0545 Wphyto/m²	Erb_Ratio=0.91506	

PPFDf=2.1744E+000 μmol/(m²·s)
PPFD=49.024 μmol/(m²·s)

Spectrum Test Report

Sample Info.:

Name:WIP Hi-LED T8 20W 6500K CRI98

Type:S-1

SN:001

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

Date:2024-08-31

Tester:Chanchai Chimwai

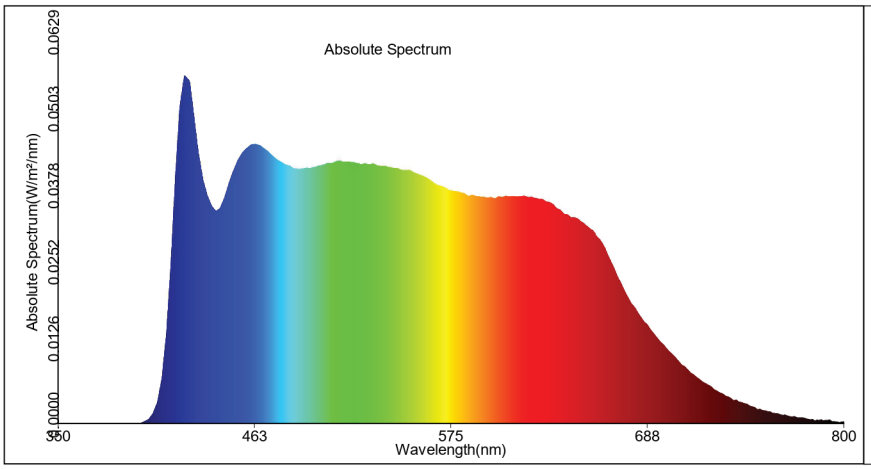
TMP:25.3 DEG

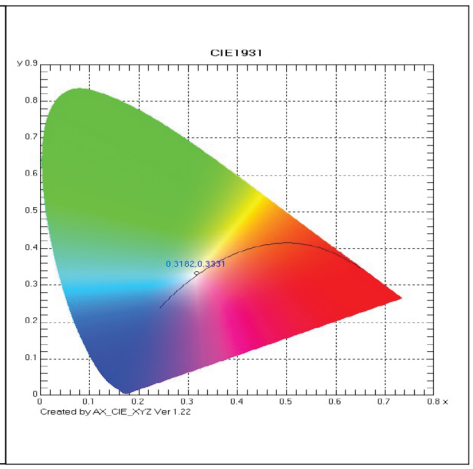
Humidity:65 %RH

Remark:WIP Hi-LED T8 20W 6500K CRI98

Meter state:

Test Meter:	PLA-20	Sensitivity:	High		
Integral T:	799 ms	PeakAD Ip:	49310.9	Average times:	1





Test parameter:

E= 3196.6 lx	E(fc)=297.08 fc		
CIE x= 0.3182	CIE y= 0.3331	CIE u'=0.2001	CIE v'=0.4713
Tc=6194 K	Lp=423.0 nm	HW=248.3 nm	Ld=491.5 nm
Pur=5.1 %	Ratio_R=15.9 %	Ratio_G=77.0 %	Ratio_B=7.1 %
Duv=0.00259			
Ra=98.8	R1=100	R2= 99	R3= 98
R4= 98	R5= 99	R6=100	R7= 99
R8= 98	R9= 94	R10= 98	R11= 98
R12= 96	R13=100	R14= 99	R15= 98

SDCM= 4.2(F6500)

E1(400-700nm)=11.832 W/m²		E2(380-780nm)=12.219 W/m²
Ech-A=2.1758 W/m²	Ech-B=2.3874 W/m²	Ef=0.36354 W/m²
Eb=4.1534 W/m²	Ey=4.4723 W/m²	Er=3.215 W/m²
Ep=9.8907 Wphyto/m²	Erb_Ratio=0.77407	
PPFDf=2.2049E+000 μmol/(m²·s)		
PPFD=53.515 μmol/(m²·s)		