



# Product Specification

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model no. **PLT-90369, PLT-90370, PLT-90371**

## 1. DESCRIPTION:

LAMP TYPE:	Linear T5 LED
LAMP CLASSIFIED:	Type B, Single&Double Ended, Gen2
BASE TYPE:	G5 (Miniature Bi-pin)
EQUIVALENT	F28T5/HE
WATTAGE:	12.5W
CCT:	3000K,3500K,4000K,5000K,6500K
DIFFUSER TYPE:	internal coated glass tube
WARRANTY:	5 YEARS



## 2. PRODUCT FEATURES

Replacement for conventional T5HE fluorescent lamp

Direct wire, 120-277Vac input

UL (R/C and Classified) &amp;DLC qualified

Full glass housing; no aging, no yellowing, no bending

Environmentally friendly: no mercury

Suitable for dry and damp locations

Suitable for open fixtures

## 3. PERFORMANCE (If no specified, the test conditions in below items are: Ta=25°C±5°C, RH≤65%, air free)

### 3.1 Electrical Characteristics

PARAMETERS	SYMBOL	MIN	RATED	MAX	UNIT	Test Condition
Input voltage	U	--	120~277	--	V	/
Frequency	f	--	50/60	--	Hz	/
Rated power	P	11.3	12.5	13.8	W	Vin=120,277Vac
Power factor	PF	0.873	0.9	--	/	Vin=120,277Vac
Total Harmonic Distortion	THD	--	20%	25%	/	Vin=120,277Vac meet DLC
Starting time	t	--	--	1	s	Vin=120,277Vac
Flicker percent	/	--	--	--	/	/
Dimming type	/	Dim-mate				

### 3.2 Photometrical Characteristics

PARAMETERS	SYMBOL	MIN	RATED	MAX	UNIT	Test Condition
Beam Angle	$\theta$	--	180	--	°	/
Flux @ <4000K	$\Phi$	1530	1700	1870	LM	Vin=120,277Vac
Flux @ ≥4000K		1620	1800	1980		
Efficacy @ <4000K	$\eta$	122.9	136.0	--	LM/W	
Efficacy @ ≥4000K		130.2	144.0	--		

### 3.3 Color Characteristics (refer to ANSI C78.377-2017)

#### Chromaticity coordinates

PARAMETER	SYMBOL	MIN	RATED	MAX	Unit	Test Condition
CENTER POINT	CCT=3000K	X=0.4339 Y=0.4033		/		
	CCT=3500K	X=0.4078 Y=0.3930				
	CCT=4000K	X=0.3818 Y=0.3797				
	CCT=5000K	X=0.3446 Y=0.3551				
	CCT=6500K	X=0.3123 Y=0.3283				

PARAMETER	SYMBOL	MIN	RATED	MAX	Unit	Test Condition
Color Render Index	Ra	80	82	--	/	/
R9	R9	0	12	--		
Color tolerance	/	--	--	5		

## 4. LUMEN MAINTENANCE & LIFE

PARAMETERS	SYMBOL	MIN	RATED	MAX	UNIT	Test Condition
Lumen Maintenance at 6000hrs	/	--	95.8%	--	/	/
Life	t	--	50000	--	Hrs	Ta=45C, air free
Warranty	/	--	5	--	Year	Ta=45C, air free



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### 5. OPERATION TEMPERATURE & STORAGE TEMPERATURE

PARAMETERS	SYMBOL	MIN	RATED	MAX	UNIT	Test Condition
Ambient Temperature	$T_A$	-20	--	45	°C	/
Storage Temperature	$T_{st}$	-40	--	85		/

### 6. COMPATIBILITY

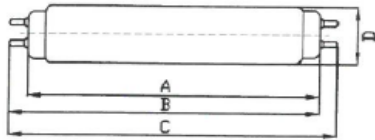
Compatible with Super emergency driver.

Compatible with Super 0-10V dimmer for continuous dimming.

### 7. APPROBATION COMPLIANCE

UL1993&UL1598C, FCC part 15 class B, DLC 5.1 Standard, RoHS compliance, NSF

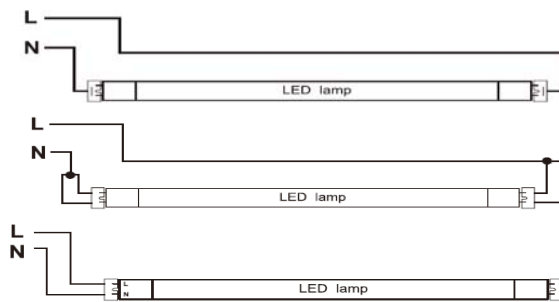
### 8. DIMENSIONS



SYMBOL	MIN	TYP	MAX	UNIT
A	/	--	1149.0	mm
B	1153.7	--	1156.1	mm
C	/	--	1163.2	mm
D	18.8	--	19.5	mm

### 9. Connection & Wiring

#### WIRING DIAGRAM

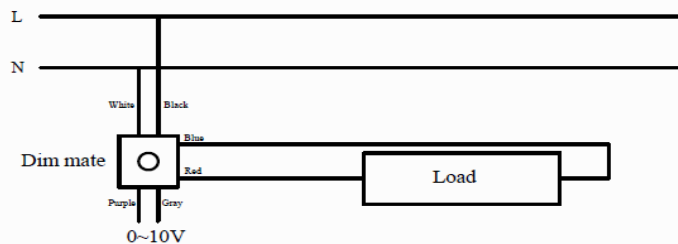


#### WIRING ILLUSTRATION

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### 10. Dimming Operation

0-10V Continuous dimming by selected dimmer in the package, Operation refer to the wiring diagram below



### 11. PART NUMBER

PLT-90369 - 12.5W, 3500K, 1700 Lumens, 136 LPW

PLT-90370 - 12.5W, 4000K, 1800 Lumens, 144 LPW

PLT-90371 - 12.5W, 5000K, 1800 Lumens, 144 LPW

### DLC 5.1 Standard

- PLT-90369 - PLTSPEQ213
- PLT-90370 - PLTSPEQ214
- PLT-90371 - PLTSPEQ215