



Product Specification

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model no. **PLT-50358, PLT-50359, PLT-50360, PLT-50361**

1. DESCRIPTION:

LAMP TYPE:	Linear T5 LED
LAMP CLASSIFIED:	Type B, Single&Double Ended, Gen2
BASE TYPE:	G5 (Miniature Bi-pin)
EQUIVALENT	/
WATTAGE:	12W
CCT:	3000K, 3500K, 4000K, 5000K, 6500K*
DIFFUSER TYPE:	internal coated glass tube
WARRANTY:	5 YEARS



2. PRODUCT FEATURES

Replacement for conventional T5HO fluorescent lamp
Direct wire, 120-277Vac input
UL (R/C and Classified)
Full glass housing; no aging, no yellowing, no bending
Environmentally friendly: no mercury

Suitable for dry and damp locations
Suitable for open fixtures

*6500K version available via Special Order.
Call 1-800-624-4488.

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	10.8	12.0	13.2	W	Vin=120,277Vac
Power factor	PF	0.873	0.9	--	/	Vin=120,277Vac
Total Harmonic Distortion	THD	--	20%	25%	/	Vin=120,277Vac
Starting time	t	--	--	1	s	Vin=120,277Vac
Flicker percent	/	--	--	--	/	/
	/					

3.2 Photometrical Characteristics

PARAMETERS	SYMBOL	MIN	RATED	MAX	UNIT	Test Condition
Beam Angle	θ	--	180	--	°	/
Flux @ <4000K	Φ	1350	1600	1650	LM	Vin=120,277Vac
Flux @ ≥4000K		1440	1600	1760		
Efficacy @ <4000K	η	116.4	133.3	--	LM/W	
Efficacy @ ≥4000K		120.5	133.3	--		

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	SDCM	

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		/

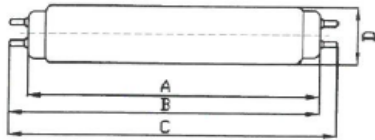
6. COMPATIBILITY

Compatible emergency drivers: PLTS-20116 & PLTS-0117

7. APPROBATION COMPLIANCE

UL1993&UL1598C, FCC part 15 class B, RoHS compliance

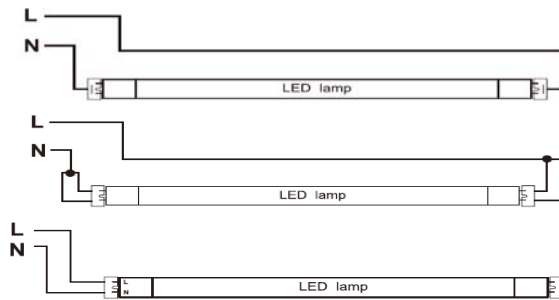
8. DIMENSIONS



SYMBOL	MIN	TYP	MAX	UNIT
A	/	--	549.0	mm
B	553.7	--	556.1	mm
C	/	--	563.2	mm
D	18.8	--	19.5	mm

9. Connection & Wiring

WIRING DIAGRAM



WIRING ILLUSTRATION

/

11. SKUs

- PLT-50358 - 12W, 1600 Lumens, 3000K
- PLT-50359 - 12W, 1600 Lumens, 3500K
- PLT-50360 - 12W, 1600 Lumens, 4000K
- PLT-50361 - 12W, 1600 Lumens, 5000K