



Product Specification

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model no.

PLT-50312

1. DESCRIPTION:

LAMP TYPE:	Linear T8 LED
LAMP CLASSIFIED:	Type B, Double Ended, Gen4
BASE TYPE:	FA8/R17D
EQUIVALENT	/
WATTAGE:	24W/32W/40W
CCT:	3000K/3500K/4000K/5000K/6500K
DIFFUSER TYPE:	Internal coated glass tube
WARRANTY:	5 YEARS



2. PRODUCT FEATURES

Replacement for conventional fluorescent lamp
Direct wire, 120-277Vac input
UL (R/C and Classified); DLC 5.1 Standard - PLTSPF1216
Full glass housing: no aging, no yellowing, no bending
Environmentally friendly: no mercury
5 Color temperature selectable
3 Power selectable
2 Cap selectable - FA8 caps attached, R17d caps included

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±1°C, RH≤65%, air free)

3.1 Electrical Characteristics

PARAMETERS	SYMBOL	MIN	RATED	MAX	UNIT	Test Condition
Line voltage	Vin	--	120/277	--	V	/
Frequency	f	--	50/60	--	Hz	/
Rated Power	P	-10%	24W/32W/40W	+10%	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	/	--	--	--	/	/
Dimming Type	/	0-10V continuous dimming by super selected dimmer				

3.2 Photometrical Characteristics

PARAMETERS	SYMBOL	MIN	RATED	MAX	UNIT	Test Condition
Flux @<4000K	Φ	-10%	3300/4200/5200	+10%	LM	Vin=120,277Vac
Flux @≥4000K		-10%	3500/4400/5500	+10%		
Efficacy @<4000K	η	-10%	137/128/130	--	LM/W	
Efficacy @≥4000K		-10%	146/137/137	--		

3.3 Color Characteristics (refer to ANSI C78.377-2015)

Chromaticity coordinates

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 @ 3000K/6500K	/	--	--	5	SDCM	
Color tolerance@ 3500K/4000K/5000K	/	--	--	7	SDCM	



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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

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		/

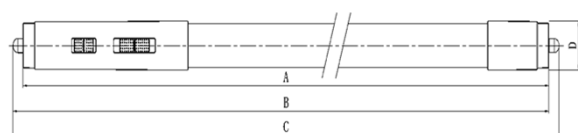
6. COMPATIBILITY

Compatible with PLT Solutions PLTS-20116 and PLTS-20117 emergency drivers.

7. APPROBATION COMPLIANCE

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

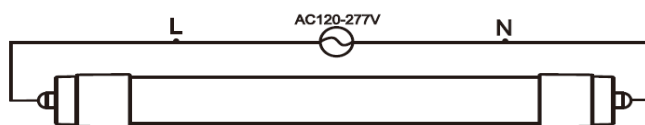
8. DIMENSIONS



SYMBOL	MIN	TYP	MAX	UNIT
A	93.10	--	93.30	in
B	93.42	--	93.65	in
C	93.74	--	94	in
D	0.94	--	1.09	in

9. Connection & Wiring

WIRING DIAGRAM

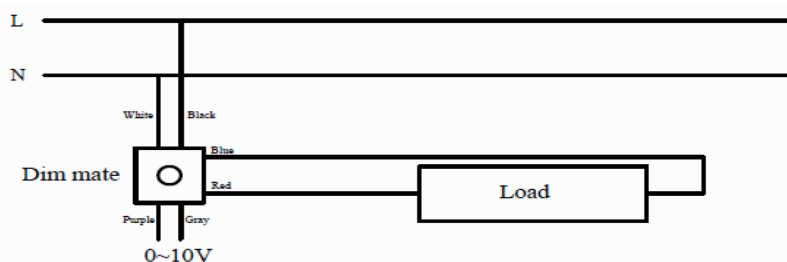


WIRING ILLUSTRATION

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10. Dimming Operation

Dimming Mate required for continuous dimming. Call 1-800-624-4488 for more information.



11. Color Selectable Chart

Wattage	CCT	Lumens	LPW	Wattage	CCT	Lumens	LPW	Wattage	CCT	Lumens	LPW
24	3000	3300	137LM/W	32	3000	4200	128LM/W	40	3000	5200	130LM/W
24	3500	3300	137LM/W	32	3500	4200	128LM/W	40	3500	5200	130LM/W
24	4000	3500	146LM/W	32	4000	4400	137LM/W	40	4000	5500	137LM/W
24	5000	3500	146LM/W	32	5000	4400	137LM/W	40	5000	5500	137LM/W
24	6500	3500	146LM/W	32	6500	4400	137LM/W	40	6500	5500	137LM/W