



# Product Specification and Ballast Compatibility

Document No.:

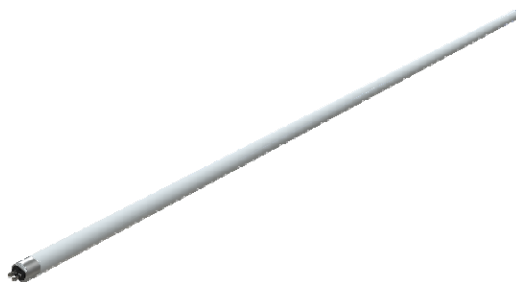
Version: A0

Page: 1/3

model no. **PLT-50318, PLT-50319, PLT-50320**

## 1. DESCRIPTION:

LAMP TYPE:	Linear T5LED
LAMP CLASSIFIED:	Type A, G2
BASE TYPE:	G5
EQUIVALENT	T5L-HO-24W(2ft)
WATTAGE:	11W
CCT:	3000K,3500K,4000K,5000K, or 6500K
DIFFUSER TYPE:	Internal coated glass tube
WARRANTY:	5 YEARS



## 2. PRODUCT FEATURES

Direct Replacement for conventional fluorescent lamp

UL (Listed)

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±1°C, RH≤65%, air free.)

### 3.1 Electrical Characteristics

PARAMETERS	SYMBOL	MIN	RATED	MAX	UNIT	Test Condition
Input voltage	V <sub>in</sub>	--	120-277	--	V	/
Frequency	f	--	50/60	--	Hz	/
Rated system power	P	-10%	13.25	+12.7%	W	V <sub>in</sub> =120,277Vac
Power factor	PF	-3%	0.9	--	/	V <sub>in</sub> =120,277Vac
Total Harmonic Distortion	THD	--	20%	+5%	/	V <sub>in</sub> =120,277Vac
Starting time	t	--	--	2	s	V <sub>in</sub> =120,277Vac
Flicker Percent	/	--	--	--	%	/
Dimming Type	/	Compatible with selected dimmable ballasts				

### 3.2 Photometrical Characteristics

PARAMETERS	SYMBOL	MIN	RATED	MAX	UNIT	Test Condition
Beam Angle	/	--	180	--	°	/
Flux @ <4000K	Φ	-10%	1350	--	LM	V <sub>in</sub> =120,277Vac
Flux @ ≥4000K		-10%	1400	--		
System efficacy@<4000K	η	-10%	100	--	LM/W	
System efficacy@≥4000K		-10%	105	--		

### 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	R <sub>a</sub>	80	82	--	/	/
R <sub>9</sub>	R <sub>9</sub>	0	--	--	/	/
Color tolerance	/	--	--	5	SDCM	/



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Document No.:

Version: A0

Page: 2/3

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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 <sub>A</sub>	-20	--	45	°C	/
Storage Temperature	T <sub>st</sub>	-40	--	85		/

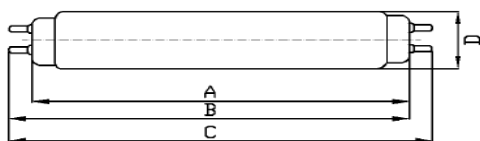
## 6. COMPATIBILITY

Compatible with mainstream market T5-HO ballast. See Page 3 for full list of compatible ballasts.

## 7. APPROBATION COMPLIANCE

Comply with UL1993, UL8750, UL 1598C, FCC

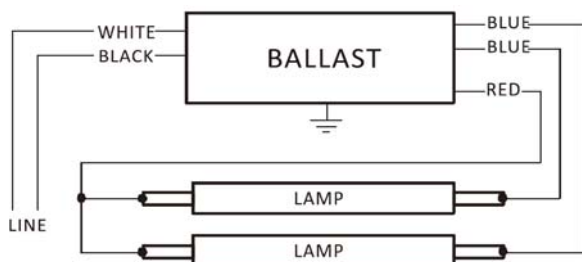
## 8. DIMENSIONS



SYMBOL	MIN	TYP	MAX	UNIT
A	/	--	21.61	in
B	21.80	--	21.89	in
C	/	--	22.17	in
D	0.61	--	0.65	in

## 9. Connection & Wiring

### WIRING DIAGRAM



### WIRING ILLUSTRATION

/

## 10. PART NUMBER

PLT-50318 - 11W, 3500K, 1350 Lumens, 100 LPW

PLT-50319 - 11W, 4000K, 1400 Lumens, 105 LPW

PLT-50320 - 11W, 5000K, 1400 Lumens, 105 LPW

## 2ft Compatible Ballast List

NC	Incompatible	P	PF <0.85
N	Acoustic noise >20dB	T	THD >30%
S	Can't start-up	C	Compatible
F	Flicker after >2s start-up	/	Not tested
HT	High temperature	NA	Not applicable

No	Ballast No.	Ballast Description					DR T5-2ft			
		Ballast Brand	Part Number	Start Method	# of Lamps	Lamp Connection	N-1 Lamp		N Lamp	
							120	277	120	277
1	901	Philips-Advance	ICN-2S24-N	PS	2	Series	C	P,T	C	C
2	951	Philips-Advance	ICN-2S39-N	PS	2	Series	C	P	C	C
3	952	KEYSTONE	KTEB-239HO-UV-PS-SL	PS	2	Series	C	P	C	C
4	953	Robertson	PSA239T5MV(3P20139)	PS	2	Series	C	P	C	P