



Product Specification and Ballast Compatibility

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model no. **PLT-50314**

1. DESCRIPTION:

LAMP TYPE:	PLED
LAMP CLASSIFIED:	Type A+B, Gen1
BASE TYPE:	G24D
EQUIVALENT	26W
WATTAGE:	9W
CCT:	2700K,3000K,3500K,4000K,5000K
DIFFUSER TYPE:	AL+PC
WARRANTY:	5 YEARS



2. PRODUCT FEATURES

Direct Replacement for conventional fluorescent lamp

UL (Listed)

compatible for both direct ballast and bypass applications

Environmentally friendly: no mercury

5 Color temperature selectable

Horizontal or vertical selectable

Suitable for dry and damp locations
Suitable for open and enclosed 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
Rated Power per lamp (Bare)	Plamp	8.1	9.0	9.9	W	Vin=120,277Vac
Rated Power per lamp	Psys	10.8	12	13.2	W	Vin=120,277Vac
Lamp voltage	Vlamp	--	120	--	V	/
Input voltage	U	108	120/277	305	V	/
Frequency	f	--	50/60	--	Hz	/
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	/	Dim-mate				

3.2 Photometrical Characteristics

PARAMETERS	SYMBOL	MIN	RATED	MAX	UNIT	Test Condition
Beam Angle	Θ 10%	--	200	--	°	IES
Flux @ <4000K	Φ	945	1050	--	lm	
Flux @ ≥4000K		990	1100	--		
Lamp efficacy@3000K/3500K	η	105.5	117	--	lm/W	
Lamp efficacy@ ≥4000K		110.5	122	--		
System efficacy@3000K/3500K	ηsys	79.1	88	--	lm/W	
System efficacy@ ≥4000K		82.9	92	--		

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

Chromaticity coordinates

PARAMETER	SYMBOL	MIN	RATED	MAX	Unit	Test Condition
CENTER POINT	CCT=2700K	X=0.4578 Y=0.4101			/	
	CCT=3000K	X=0.4338 Y=0.4030				
	CCT=3500K	X=0.4073 Y=0.3917				
	CCT=4000K	X=0.3818 Y=0.3797				
	CCT=5000K	X=0.3447 Y=0.3553				

PARAMETER	SYMBOL	MIN	RATED	MAX	Unit	Test Condition
Color Render Index	Ra	80	82	--	/	
R9	R9	0	12	--		
Color tolerance 2700K/5000K	/	--	--	5	SDCM	/
Color tolerance 3000K/3500K/4000K	/	--	--	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 Dimming Mate for continuous dimming. Call 1-800-624-4488 for more information.

This lamp only operate on PL Magnetic Ballast or or directly connect with the mains. See page 3 for full list.

7. APPROBATION COMPLIANCE

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

8. DIMENSIONS

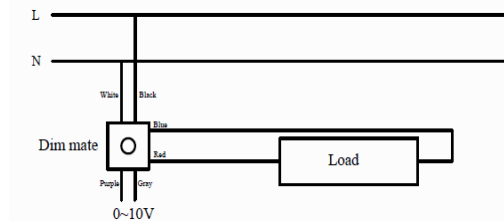
	Referenced standard	Dimension	Min	Max	Unit
	ANSI C78.901	A	2.34	2.38	in
		B	2.34	2.38	in
		C	6.10	6.14	in
		D	6.73	6.77	in
		E	5.43	5.47	in
		F	6.43	6.47	in
		G	3.13	3.17	in
	Cap	G24D			

9. Connection & Wiring

WIRING DIAGRAM	WIRING ILLUSTRATION
	/

10. Dimming Operation

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



G24D PL 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 PL-9W			
		Ballast Brand	Part Number	Start Method	# of Lamps	Target Replacement Lamp Type	Lamp Connection	N-1 Lamp		N Lamp	
								120	277	120	277
1	PL-101	KEystone	CC579TP	n,a	1	9W*1	n.a	NA	NA	C	NA
2	PL-103	Philips-Advance	VH-1B13-TP-W	n,a	1	9W*1	n.a	NA	NA	NA	C
3	PL-104	Philips-Advance	H-1B13-TP-W	n,a	1	9W*1	n.a	NA	NA	C	NA
4	PL-105	Robertson	S28CP	PHS	1	9W*1	n.a	NA	NA	C	NA
5	PL-106	Robertson	HP2627P	PHS	1	9W*1	n.a	NA	NA	NA	C
11	PL-112	Robertson	S18PSC	PHS	1	9W*1	n.a	NA	NA	C	NA
13	PL-113	Robertson	HP21327SP	PHS	2	9W*2	Series	NA	C	NA	C
14	PL-114	Robertson	HP7927P	PHS	1	9W*1	n.a	NA	NA	NA	C
15	PL-115	Robertson	HP22627P	PHS	2	9W*2		NA	C	NA	C
16	PL-116	Robertson	HP1827P	PHS	1	9W*1	n.a	NA	NA	NA	C
17	PL-117	Robertson	S1P		1	9W*1	n.a	NA	NA	C	NA
18	PL-118	Robertson	O1527P(3P10104)		2	9W*2		NA	C	NA	C
20	PL-119	Robertson	SP4827P(3P10076)		1	9W*1		NA	NA	NA	C
21	PL-120	Philips-Advance	VH-2Q26-TP-BLS	PHS	2	9W*2		NA	C	NA	C
22	PL-121	Philips-Advance	VLO-2S13-TP		2	9W*2		NA	C	NA	C
23	PL-122	Philips-Advance	VLO-13-TP		1	9W*1		NA	NA	NA	C
24	PL-123	Robertson	HP226SP(3P10085)	PHS	2	9W*2	Series	C	NA	C	NA
25	PL-124	Robertson	HP213P(3P10073)	PHS	2	9W*2	Series	C	NA	C	NA
26	PL-125	Robertson	HP28P	PHS	1	9W*1	n.a	NA	NA	C	NA
27	PL-126	Robertson	HP18P	PHS	1	9W*1	n.a	NA	NA	C	NA
29	PL-127	Robertson	HP218SP	PHS	2	9W*2	Series	C	NA	C	NA
31	PL-128	Philips-Advance	H-2B13-TP-BLS		2	9W*2	Parallel	C	NA	C	NA
32	PL-129	Philips-Advance	LC-13-TP		1	9W*1	NA	NA	NA	C	NA
35	PL-130	Philips-Advance	LC-14-20-C-TP		1	9W*1	NA	NA	NA	C	NA

Note:Some ballasts have different versions,please check before use.