



Product Specification and Ballast Compatibility

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model no. **PLT-50313**

1. DESCRIPTION:

LAMP TYPE:	PLED
LAMP CLASSIFIED:	Type A+B, Gen1
BASE TYPE:	G24Q
EQUIVALENT	26W
WATTAGE:	9W
CCT:	2700K,3000K,3500K,4000K,5000K
DIFFUSER TYPE:	AL+PC
WARRANTY:	5 YEARS



Suitable for dry and damp locations
Suitable for open fixtures

2. PRODUCT FEATURES

Direct Replacement for conventional fluorescent lamp
UL (Listed); DLC 5.1 Standard - PLTSPG1361
compatible for both direct ballast and bypass applications
Environmentally friendly: no mercury
5 Color temperature selectable
Horizontal or vertical selectable

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 (System)	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	/	Type A: Depend on ballast Type B: 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 PLT Solutions PLTS-20116 and PLTS-20117 emergency drivers.
 Compatible with mainstream market Instant Start, Programmed Start and Rapid Start electronic Ballast or directly connect with the mains. See Page 3 for list of compatible ballasts.

7. APPROBATION COMPLIANCE

UL1993&UL1598C, FCC part 15 class B (BP) & FCC Part 18 Non-Consumer (DR), RoHS compliance

8. DIMENSIONS

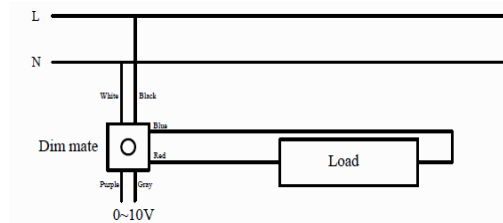
	Referenced standard	Dimension	Min	Max	Unit
	ANSI C78.901	A	2.34	2.38	in
		B	2.34	2.38	in
		C	6.10	6.14	in
		D	6.73	6.77	in
		E	5.43	5.35	in
		F	6.43	6.47	in
		G	3.13	3.17	in
Cap	G24Q				

9. Connection & Wiring

WIRING DIAGRAM	WIRING ILLUSTRATION
	/

10. Dimming Operation

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



G24q 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 Brand	Part Number	Start Method	# of Lamps	Target Replacement Lamp Type	Lamp Connection	DR PL-9W			
								N-1 Lamp		N Lamp	
								120	277	120	277
1	PL-3	SUNPARK	U-226PS-W	PS	2	26W*2; 26W*1; 32W*1; 42W*1	Series	C	C	C	C
2	PL-10	OSRAM SYLVANIA	QTP 2×26/32/42CFUNV DM PEM	PS	2	26W*2; 32W*2; 42W*2	Series	NA	NA	C	C
4	PL-13	ESPEN	VE126120MR	PS	1	26W*1	n.a	NA	NA	P,T	NA
10	PL-34	Fulham (PONY)	NPY-120-126CFL	RS	1	26W*1; 32W*1	n.a	NA	NA	P,T	NA
11	PL-35	Fulham(WORKHORSE)	WH3-120-C	IS	1	18W*2; 26W*1; 32W*1	Parallel	NA	NA	C	NA
13	PL-39	Philips-Advance	ICF-2S42-M2-LD	PS	2	26W*2; 32W*2; 42W*2	Series	NA	NA	C	P
14	PL-40	Philips-Advance	ICF-2S26-H1-LD	PS	2	26W*2; 26W*1	Series	C	C	C	C
15	PL-42	Universal Lighting Technologies	C2642UNVME	PS	2	26W*2; 26W*1; 32W*1; 42W*1	Series	C	C	C	C
17	PL-44	AC ELECTRONICS	CSS-UV42PS	PS	2	26W*2; 26W*1; 32W*1; 42W*1	Series	C	C	C	C
18	PL-45	AC ELECTRONICS	CSD-UV42PS	PS	2	26W*2; 26W*1; 32W*2; 32W*1; 42W*2; 42W*1	Series	C	P,T	C	C
20	PL-47	Philips-Advance	ICF-2S26-M1-BS	PS	2	26W*2; 26W*1; 32W*1; 42W*1	Series	C	C	C	C
22	PL-50	KEYSTONE	KTEB-226-UV-RS-DW	RS	2	26W*2; 26W*1; 32W*1; 42W*1	Series	NC	NC	C	C
24	PL-52	KEYSTONE	KTEB-218-UV-RS-DW	RS	1	18W*2; 18W*1; 26W*1	Series	NA	NA	C	C
26	PL-55	OSRAM SYLVANIA	QTP 2×26CF/UNV DM	PS	2	26W*2; 26W*1; 32W*1; 42W*1	Series	C	C	C	C
27	PL-56	OSRAM SYLVANIA	QTP 2×26/32/42CFUNV DM	PS	2	26W*2; 32W*2; 42W*2	Series	NA	NA	C	C
29	PL-58	Fulham	WH3-120-L	IS	2	26W*2; 32W*1; 42W*1	Parallel	NA	NA	T	NA
38	PL-75	Fulham	RHA-UNV-242-C	PS	2	26W*2; 32W*2; 42W*2; 42W*1	Series	NA	NA	C	P
39	PL-76	Fulham	WH2-120-C	IS	1	13W*2; 13W*1; 18W*2; 18W*1; 26W*1	Parallel	NA	NA	T	NA
42	PL-88	Universal Lighting Technologies	C2642UNVBE	PS	2	26W*2; 26W*1; 32W*1; 42W*1	Series	C	C	C	C
43	PL-91	Philips-Advance	RCF-2S26-M1-LS-QS	RS	2	26W*2; 26W*1; 32W*1; 42W*1	Series	C	NA	C	NA
45	PL-201	Fulham (PONY)	NPY-120-226CFL	RS	2	26W*2	Series	NA	NA	P,T	NA
46	PL-202	MOTORALA	M2-CF-26-B-S-277	RS	2	26W*2	Series	NA	NA	NA	C
47	PL-210	Fulham	WH3-277-BLS	IS	2	26W*2	Series	NA	T	NA	T
48	PL-211	OSRAM SYLVANIA	QTP 2×26CF/UNV BS	PS	2	26W*2	Series	C	C	NA	C

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