



Product Specification

Document No.:

Version: A0

Page: 1/2

model no. **PLT-50407, PLT-50408, PLT-50409, PLT-50410**

1. DESCRIPTION:

LAMP TYPE:	PLED
LAMP CLASSIFIED:	Type A, Gen2
BASE TYPE:	G24Q
EQUIVALENT	13W
WATTAGE:	5.5W
CCT:	2700K,3000K,3500K,4000K,5000K*
DIFFUSER TYPE:	Glass
WARRANTY:	5 YEARS



Suitable for dry and damp locations
Suitable for open fixtures

Vertical burn position only

*5000K version available via special order.
Call 1-800-624-4488.

2. PRODUCT FEATURES

Direct Replacement for conventional fluorescent lamp

UL Listed

Environmentally friendly: no mercury

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	6.3	7.0	7.7	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	--	--	2	s	Vin=120,277Vac
Flicker Percent	/	--	--	--	/	/
Dimming Type	/	Non-dimmable				

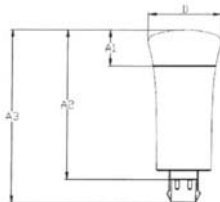
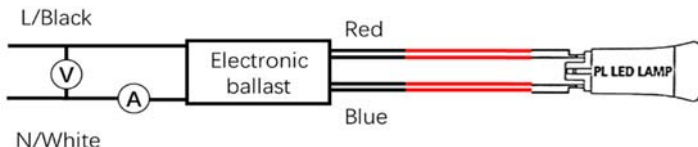
3.2 Photometrical Characteristics

PARAMETERS	SYMBOL	MIN	RATED	MAX	UNIT	Test Condition
Beam Angle	/	--	120	--	°	
Flux @2700K	Φ	468	520	--	LM	Vin=120,277Vac
Flux @3000K/3500K		495	550	--		
Flux @4000K/5000K		522	580	--		
Lamp efficacy@2700K	ηlamp	66.9	95	--	LM/W	
Lamp efficacy@3000K/3500K		70.7	100	--		
Lamp efficacy@4000K/5000K		74.6	105	--		

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

Chromaticity coordinates

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	

PLT Product Specification					Document No.:	
					Version: A0	
					Page: 2/2	
model no.	PLT-50407, PLT-50408, PLT-50409, PLT-50410					
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
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 mainstream market electronic instant start ballast, rapid start ballast, & program start ballast; see Compatible Ballast section for full list.						
7. APPROBATION COMPLIANCE						
Comply with UL 1993, UL8750, FCC, NSF						
8. DIMENSIONS						
		SYMBOL	MIN	TYP	MAX	UNIT
		A1	23.8	--	25.4	mm
		A2	100.6	--	102.6	mm
		A3	116.6	--	118.6	mm
		D	45.4	--	46.0	mm
9. Connection & Wiring						
WIRING DIAGRAM					WIRING ILLUSTRATION	
					/	

SKUs:

PLT-50407 -- 5.5W, 520 Lumens, 95 LPW, 2700K
 PLT-50408 -- 5.5W, 550 Lumens, 100 LPW, 3000K
 PLT-50409 -- 5.5W, 550 Lumens, 100 LPW, 3500K
 PLT-50410 -- 5.5W, 580 Lumens, 105 LPW, 4000K

Compatible Ballast List

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

No	Ballast No.	Ballast Description						DR PL V&H-5.5W							
		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-76	Fulham	WH2-120-C	IS	2	13W*2; 13W*1; 18W*2; 18W*1; 26W*1	Parallel	N	NA	N	NA				
2	PL-77	Fulham	WH2-120-L	IS	2	13W*2; 13W*1; 18W*2; 18W*1; 26W*1	Parallel	N	NA	N	NA				
3	PL-38	DAMAR	23350D	PS	2	13W*2; 13W*1; 18W*2; 18W*1	Series	C	C	C	C				
4	PL-4	SUNPARK	SL27T	PS	2	13W*2; 18W*2	Series	S	NA	S	NA				
5	PL-27	ProLume	EP2CF13PS/MV/DC/K	PS	2	13W*2; 13W*1; 18W*1	Series	S	S	S	S				
6	PL-62	HATCH	HC213PS/UV/D	PS	2	13W*2; 13W*1; 18W*1	Series	S	S	S	S				
7	PL-64	HOWARD INDUSTRIES	EP2/13CF/MV/2	PS	2	13W*2; 13W*1; 18W*1	Series	S	S	S	S				
8	PL-7	SUNPARK	LC 12010T	PS	1	13W*1	na	NA	NA	C	NA				
9	PL-79	Philips-Advance	REB-113-M6-BLS	IS	1	13W*1	na	NA	NA	C	NA				
10	PL-6	SUNPARK	U-213PS	PS	2	13W*2;13W*1	Series	C	P	C	C				
11	PL-23	Philips-Advance	ICF-2S13-H1-LD	PS	2	13W*2;13W*1	Series	C	C	C	C				
12	PL-24	Philips-Advance	ICF-2S13-M1-BS	PS	2	13W*2;13W*1	Series	C	C	C	C				
13	PL-54	Universal Lighting Techno	ICF-2S13-M1-BS	PS	2	13W*2;13W*1	Series	C	C	C	C				
14	PL-74	Fulham	RHA-UNV-213-C	PS	2	13W*2;13W*1	Series	S	S	S	S				
15	PL-84	Philips-Advance	ICF-2S13-M1-BS-QS	PS	2	13W*2;13W*1	Series	C	C	C	C				
16	PL-55	OSRAM SYLVANIA	QTP 2X26CF/UNV DM	PS	2	26W*2	Series	C	C	C	C				