



# Product Specification

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model no. **PLT-50343, PLT-50344, PLT-50345**

## 1. DESCRIPTION:

LAMP TYPE:	Linear T5LED
LAMP CLASSIFIED:	Type A, G3
BASE TYPE:	G5
EQUIVALENT	F28T5/HE
WATTAGE:	12.5W
CCT:	3000K*,3500K,4000K,5000K,6500K*ζ
DIFFUSER TYPE:	Internal coated glass tube
WARRANTY:	5 YEARS



## 2. PRODUCT FEATURES

Direct Replacement for conventional fluorescent lamp  
UL (Listed), DLC 5.1 Standard  
Full glass housing: no aging, no yellowing, no bending  
Environmentally friendly: no mercury

Suitable for dry and damp locations  
Suitable for open fixtures

*\*3000K & 6500K versions available via Special Order.  
Call 1-800-624-4488.*

## 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	Vin	108	120-277	305	V	/
Frequency	f	--	50/60	--	Hz	/
Rated system power	P	-10%	14.5	+12.7%	W	Vin=120,277Vac
Power factor	PF	-3%	0.9	--	/	Vin=120,277Vac
Total Harmonic Distortion	THD	--	20%	+5%	/	Vin=120,277Vac
Starting time	t	--	--	2	s	Vin=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%	1700	--	LM	Vin=120,277Vac
Flux @≥4000K		-10%	1800	--		
System efficacy@<4000K	η	-10%	117	--	LM/W	
System efficacy@≥4000K		-10%	124	--		

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

#### Chromaticity coordinates

CENTER POINT	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	
	CCT=6500K*	X=0.3123	Y=0.3282	

PARAMETER	SYMBOL	MIN	RATED	MAX	Unit	Test Condition
Color Render Index	Ra	80	82	--	/	/
R9	R9	0	--	--		
Color tolerance	/	--	--	5	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 <sub>A</sub>	-20	--	45	°C	/
Storage Temperature	T <sub>st</sub>	-40	--	85		/

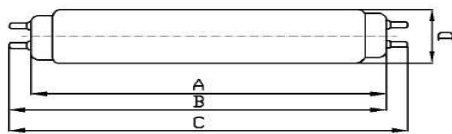
## 6. COMPATIBILITY

Compatible with mainstream market T5-HE ballast

## 7. APPROBATION COMPLIANCE

Comply with FCC PART15, ballast-dependent, UL1993/UL8750; DLC 5.1 Standard

## 8. DIMENSIONS

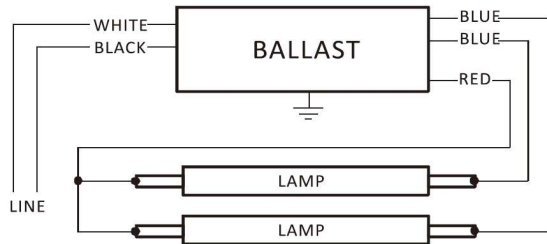


SYMBOL	MIN	TYP	MAX	UNIT
A	/	--	1149.0	mm
B	1153.7	--	1156.1	mm
C	/	--	1163.2	mm
D	15.5	--	16.5	mm

## 9. Connection & Wiring

WIRING DIAGRAM

WIRING ILLUSTRATION



/

## 10. SKUs

PLT-50343 - 12.5W, 1700 Lumens, 3500K

PLT-50344 - 12.5W, 1800 Lumens, 4000K

PLT-50345 - 12.5W, 1800 Lumens, 5000K

## 11. DLC 5.1 STANDARD PART NUMBERS

PLT-50343 - PLTSP5Q13

PLT-50344 - PLTSP5Q14

PLT-50345 - PLTSP5Q15

Super DR T5LeD_G3 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-u /	/	Not tested
										HT	High temperature	NA	Not applicable
Ballast Description										DR T5-G3			
No	Ballast No.	Ballast Brand	Part Number	Start Method	# of Lamps	Lamp Connection	N-1 Lamp		N Lamp				
							120	277	120	277			
1	701	Keystone	KTEB-254HO-UV-TP-PS	PS	2	Parallel	C	P	C	C			
2	702	Maxlite	SKEU542HOP	PS	2	Series	C	P	C	C			
3	703	Ultrasave	ER254120MHT-W	PS	2	Series	F	F	C	C			
4	704	EIKO	PM-4X54T5 UNV PS	PS	4	Series	C	C	C	C			
5	705	Philips-Advance	ICN-2S54-90C-N	PS	2	Series	C	C	C	C			
6	706	Philips-Advance	ICN-2S54-90C-T	PS	2	Series	C	C	C	C			
7	707	Philips-Advance	ICN-4S54-90C-2LS-G	PS	4	Series	C	C	C	C			
8	708	Philips-Advance	HCN-2S54-90C-WL	PS	2	Series	347,S	480,S	347,S	480,S			
9	709	General Electric	GE454MVPS90-F	PS	4	Parallel	C	C	C	C			
10	710	General Electric	GE254MVPS90-A	PS	2	Parallel	C	C	C	C			
11	711	General Electric	GE454MVPS90-E-S	PS	4	Parallel	C	C	C	C			
12	712	TCP	E2P54PRSUNVE	PS	2	Series	C	C	C	C			
13	713	Philips-Advance	ICN-2S54-T	PS	2	Series	C	C	C	C			
14	714	LumaPro	4KGE7A EB-454PRS-U	PS	4	Series	C	C	C	C			
15	715	Fulham	RHA-UNV-254-LT5	PS	2	Series	C	C	C	C			
16	716	Fulham	RHA-UNV-454-LT5	PS	4	Series	C	C	C	C			
17	717	KEYSTONE	KTEB-254HO-UV-PS-SL	PS	2	Series	NC	NC	NC	NC			
18	718	KEYSTONE	KTEB-454HO-UV-PS	PS	4	Series	C	C	C	C			
19	719	Plusrite	BAF254PS/MV	PS	2	Series	C	C	C	C			
20	720	Plusrite	BAF454PS/MV	PS	4	Series	C	C	C	C			
21	724	OSRAM SYLVANIA	QHE 2x54T5HO/UNV PSN	PRS	2	Series	C	P	C	C			
22	725	OSRAM SYLVANIA	QTP 4x54T5HO/UNV PSN HT W	PRS	4	Series	C	P	C	P			
23	726	OSRAM	QTP 4x54T5HO/UNV PSN HT W	PRS	4	Series	C	P	C	P			



Super DR T5LeD_G3 Compatible Ballast List											
No	Ballast No.	Ballast Description				Start Method	# of Lamps	Lamp Connection	DR T5-G3		
		Ballast Brand	Part Number	N-1 Lamp	N Lamp				N Lamp		
45	749	OSRAM SYLVANIA	QTP 1x54T5HO/UNV PSN		PRS	1	NA	NA	NA	C	C
46	750	OSRAM SYLVANIA	QHE 4x54T5HO/UNV PSN HT SCL[DOE]		PRS	4	Series	C	C	C	C
47	751	OSRAM SYLVANIA	QS 2x54T5HO/UNV PS80-SC		PRS	2	Series	S	S	S	S
48	752	OSRAM	QHE 4x54T5HO/347-480 PSN HT SCL		PRS	4	Series	347,C	480,C	347,C	480,C
49	753	OSRAM	QHE 1x54T5HO/UNV DIM-TC		PRS	1	n.a	S	S	S	S
50	754	OSRAM	QTP 2x54T5HO/UNV PSN HT		PRS	2	Series	C	P	C	C
51	755	General Electric	GE254MVPS-D-1		PS	2	Series	C	C	C	C
52	757	General Electric	GE254PS347/480-F		PS	2	Parallel	C	C	C	C
53	758	General Electric	GE454PS347/480-E		PS	4	Parallel	C	C	C	C
54	760	Ultrasave	ER454120MHT-W		PS	4	Series	C	C	C	C
55	761	Ultrasave	ER454347HT-W		PS	4	Series	347,C	NA	347,C	NA
56	762	Philips-Advance	HCRP-4PSP54-90C		PS	4	Parallel	C	C	C	C
57	763	STANDARD	E254T5HOPS347/N/XTRM		PS	2	Series	347,C	NA	347,C	NA
58	764	STANDARD	E454T5HOPS347/N/XTRM		PS	4	Series	347,C	NA	347,C	NA

NC Incompatible  
N Acoustic noise >20dB  
S Can't start-up  
F Flicker after >2s start-u  
HT High temperature

P PF <0.85  
T THD >30%  
C Compatible  
/ Not tested  
NA Not applicable

Super DR T5LeD_G3 <u>Incompatible</u> Ballast List												
No	Ballast No.	Ballast Brand	Part Number	Start Method	# of Lamps	Lamp Connection	DR T5-G3			N Lamp	N Lamp	
							N-1 Lamp	N Lamp	N Lamp			
							NC	Incompatible	P	PF <0.85		
							N	Acoustic noise >20dE T		THD >30%		
							S	Can't start-up	C	Compatible		
							F	Flicker after >2s start-u /		Not tested		
							HT	High temperature	NA	Not applicable		
Ballast Description												
1	703	Ultrasave	ER254120MHT-W	PS	2	Series			F	F	C	C
2	708	Philips-Advance	HCN-2S54-90C-WL	PS	2	Series			347,S	480,S	347,S	480,S
3	717	KEYSTONE	KTEB-254HO-UV-PS-SL	PS	2	Series			NC	NC	NC	NC
4	721	Universal Lighting Technologies	B254PUNVHB-D	PS	2	Series			NC	NC	NC	NC
5	722	Universal Lighting Technologies	B454PUNVHB-E	PRS	4	Series			NC	NC	NC	NC
6	723	Universal Lighting Technologies	B454PUNV-E	PRS	4	Series			NC	NC	NC	NC
7	732	ESPEN	VE254MVHRP(11101)	PS	2	Series			C	F	C	C
8	738	Universal Lighting Technologies	B254PUNV-D	PS	2	Series			NC	NC	NC	NC
9	742	OSRAM SYLVANIA	QHE 2x54T5HO/347-480 PSN HT MCL	PRS	2	Series			347,F	480,C	347,C	480,C
10	743	Philips-Advance	HCN-4S54-90C-2LS-G	PS	4	Series			347,F	480,F	347,F	480,F
11	748	Philips-Advance	ICRP-4PSP54-90C	PS	4	Series			S	S	S	S
12	751	OSRAM SYLVANIA	QS 2x54T5HO/UNV PS80-SC	PRS	2	Series			S	S	S	S
13	753	OSRAM	QHE 1x54T5HO/UNV DIM-TC	PRS	1	n.a			S	S	S	S