

PHILIPS

LED lamps

InstantFit lamps



This is **real compatibility**

Other lamps claim compatibility, but only InstantFit has been proven to work with over 350 ballasts and drivers delivering even light output, proven energy savings and a long average lifetime. **That's true compatibility.**

- **InstantFit works with over 350 ballasts and drivers**
More than any other lamp so you know it's going to perform as expected and prevent rework.
- **Proven over 40% energy savings¹**
Over fluorescent means continual payback for the life of the product.
- **Lifetime delivered²**
Average life rating of 50,000 hrs, with up to 70,000 hrs.
- **Proven product history**
Philips is a company with a long history of innovation and reliability in the lighting industry.
- **Powerful flexibility³**
Most Philips InstantFit lamps operate as both UL Type A and UL Type C lamps.
- **Light quality and performance predictability**
Consistent light output and no flicker means delighted customers.
- **Shatter prevention**
Unlike competitors' coated glass lamps, our polycarbonate lamps prevent breakage, not just contain the shattered glass.
- **No perceivable flicker⁴**
All InstantFit lamps have a below 1.0 SVM.

1. Savings based on comparison to F32T8 electronic instant start systems.
2. Tested to B50 L70 requirement with a ballast factor < 0.88.
3. DLC Product ID list is for UL Type A only. The product may also be DLC certified as UL Type C. To verify search the DLC QPL using the model number.
4. Refer to NEMA77, IEC 61547 & IEC 63158 standard for SVM (Stroboscopic Visibility Measure).

Philips InstantFit LED lamps

Ordering, electrical and technical data (Subject to change without notice)



Product No. (6nc)	DLC Model No.	Product Description	Lamp Watts ¹	Base	CRI (min)	CCT (K)	Lifetime ² (hrs)	Nominal Lumens (lm)	Beam	Lamp Material	UL Type	DLC Product ID ³	Lamps per Case (Pallet)
2-FT - T8 MasterClass													
541813	9290019869B	7T8/MAS/24-830/IF10/P/DIM 10/1	7	G13	82	3000	70,000	1050	180°	Plastic	A, C	PEVGCYR3	10 (2380)
541821	9290019870B	7T8/MAS/24-835/IF10/P/DIM 10/1	7	G13	82	3500	70,000	1050	180°	Plastic	A, C	PCFWLD63	10 (2380)
541839	9290019871B	7T8/MAS/24-840/IF11/P/DIM 10/1	7	G13	82	4000	70,000	1150	180°	Plastic	A, C	P4511ONS	10 (2380)
541847	9290019872B	7T8/MAS/24-850/IF11/P/DIM 10/1	7	G13	82	5000	70,000	1150	180°	Plastic	A, C	PA8KOGZ6	10 (2380)
3-FT - T8 MasterClass													
539858	9290019675B	8.5T8/MAS/36-830/IF13/P/DIM 10/1	8.5	G13	82	3000	70,000	1300	180°	Plastic	A, C	PVZ2OQ5G	10 (1530)
539866	9290019679B	8.5T8/MAS/36-835/IF13/P/DIM 10/1	8.5	G13	82	3500	70,000	1300	180°	Plastic	A, C	PUB5CRL0	10 (1530)
539874	9290019676B	8.5T8/MAS/36-840/IF14/P/DIM 10/1	8.5	G13	82	4000	70,000	1400	180°	Plastic	A, C	PSU003VV	10 (1530)
539882	9290019677B	8.5T8/MAS/36-850/IF14/P/DIM 10/1	8.5	G13	82	5000	70,000	1400	180°	Plastic	A, C	PQMBVBD4	10 (1530)
4-FT - T8 Energy Advantage MasterClass													
565580	9290030253	8.9T8/MAS/48-830/IF15/P/DIM 10/1	8.9	G13	82	3000	70,000	1500	180°	Plastic	A, C	PTDIV27Q	10 (1190)
565598	9290030254	8.9T8/MAS/48-835/IF15/P/DIM 10/1	8.9	G13	82	3500	70,000	1500	180°	Plastic	A, C	PCYCNP00	10 (1190)
565606	9290030255	8.9T8/MAS/48-840/IF16/P/DIM 10/1	8.9	G13	82	4000	70,000	1600	180°	Plastic	A, C	PIGPHJTW	10 (1190)
565614	9290030256	8.9T8/MAS/48-850/IF16/P/DIM 10/1	8.9	G13	82	5000	70,000	1600	180°	Plastic	A, C	PTB8BS59	10 (1190)
4-FT - T8 Energy Advantage CorePro													
553214	9290022527A	10T8/COR/48-830/IF15/G/DIM 10/1	10	G13	80	3000	50,000	1500	240°	Glass	A, C	PQF8SUD6	10 (600)
553222	9290022528A	10T8/COR/48-835/IF15/G/DIM 10/1	10	G13	80	3500	50,000	1500	240°	Glass	A, C	PVEGD8IP	10 (600)
553230	9290019917A	10T8/COR/48-840/IF16/G/DIM 10/1	10	G13	80	4000	50,000	1600	240°	Glass	A, C	PMMN006E	10 (600)
553248	9290019918A	10T8/COR/48-850/IF16/G/DIM 10/1	10	G13	80	5000	50,000	1600	240°	Glass	A, C	P6YC6AM6	10 (600)
4-FT - T8 CorePro													
542084	9290019606	16T8/LED/48-840/IF18/G 25/1	16	G13	80	4000	36,000	1800	240°	Glass	A	Not DLC	25 (900)
542092	9290019607	16T8/LED/48-850/IF18/G 25/1	16	G13	80	5000	36,000	1800	240°	Glass	A	Not DLC	25 (900)
4-FT - T8 High Output MasterClass													
473926	9290013976E	13T8/MAS/48-830/IF20/P/DIM 10/1	13	G13	80	3000	70,000	2000	180°	Plastic	A, C	P4NOXYLX	10 (1190)
473934	9290013977E	13T8/MAS/48-835/IF20/P/DIM 10/1	13	G13	80	3500	70,000	2000	180°	Plastic	A, C	PNKEQNTTE	10 (1190)
473942	9290013978E	13T8/MAS/48-840/IF21/P/DIM 10/1	13	G13	80	4000	70,000	2100	180°	Plastic	A, C	PP50M8AQ	10 (1190)
473958	9290013979E	13T8/MAS/48-850/IF21/P/DIM 10/1	13	G13	80	5000	70,000	2100	180°	Plastic	A, C	PY4PF7KV	10 (1190)
4-FT - T8 High Output CorePro													
470096	9290013430B	14T8/COR/48-830/IF20/G/DIM 10/1	14	G13	82	3000	50,000	2000	240°	Glass	A, C	PUHWMP7I	10 (650)
470104	9290013431B	14T8/COR/48-835/IF20/G/DIM 10/1	14	G13	82	3500	50,000	2000	240°	Glass	A, C	PD9P382I	10 (650)
470112	9290013432B	14T8/COR/48-840/IF21/G/DIM 10/1	14	G13	82	4000	50,000	2100	240°	Glass	A, C	PK33B4AL	10 (650)
470120	9290013433B	14T8/COR/48-850/IF21/G/DIM 10/1	14	G13	82	5000	50,000	2100	240°	Glass	A, C	PEQWC6CZ	10 (650)
4-FT - T8 Ultra High Output MasterClass													
545178	9290020162B	15.5T8/MAS/48-830/IF23/P/DIM 25/1	15.5	G13	82	3000	70,000	2350	180°	Plastic	A, C	PBLYY9EE	25 (1400)
533372	9290020163B	15.5T8/MAS/48-835/IF24/P/DIM 25/1	15.5	G13	82	3500	70,000	2400	180°	Plastic	A, C	P51ZCP75	25 (1400)
545194	9290020164B	15.5T8/MAS/48-840/IF25/P/DIM 25/1	15.5	G13	82	4000	70,000	2500	180°	Plastic	A, C	PCYKVVJSI	25 (1400)
545200	9290020165B	15.5T8/MAS/48-850/IF25/P/DIM 25/1	15.5	G13	82	5000	70,000	2500	180°	Plastic	A, C	POHKOY9Y	25 (1400)
8-FT - T8 Slimline MasterClass													
469247	9290013078	35T8/96-3500 IF FA8 10/1	35	FA8	82	3500	50,000	4000	180°	Plastic	A, C	Not DLC	10 (300)
469254	9290013146	35T8/96-4000 IF FA8 10/1	35	FA8	82	4000	50,000	4200	180°	Plastic	A, C	Not DLC	10 (300)
8-FT - T8 Slimline CorePro													
533000	9290018971	30T8/PRO/96-830/IF39/G/FA8 10/1	30	FA8	82	3000	50,000	4200	240°	Glass	A, C	PV518TZI	10 (400)
533018	9290018972	30T8/PRO/96-835/IF39/G/FA8 10/1	30	FA8	82	3500	50,000	4200	240°	Glass	A, C	PZKPOTXO	10 (400)
533026	9290018973	30T8/PRO/96-840/IF42/G/FA8 10/1	30	FA8	82	4000	50,000	4200	240°	Glass	A, C	P73Q3PKC	10 (400)
533034	9290018974	30T8/PRO/96-850/IF42/G/FA8 10/1	30	FA8	82	5000	50,000	4200	240°	Glass	A, C	PRG5ZZ3R	10 (400)
U-bend - T8 High Output MasterClass													
541854	9290019874B	13T8-6U/MAS/24-830/IF20/P/DIM 10/1	13	G13	82	3000	70,000	2000	180°	Plastic	A, C	P4LG6FAR	10 (400)
541862	9290019875B	13T8-6U/MAS/24-835/IF20/P/DIM 10/1	13	G13	82	3500	70,000	2000	180°	Plastic	A, C	PCBI697X	10 (400)
541870	9290019876B	13T8-6U/MAS/24-840/IF21/P/DIM 10/1	13	G13	82	4000	70,000	2100	180°	Plastic	A, C	PQJQXE4Q	10 (400)
541888	9290019877B	13T8-6U/MAS/24-850/IF21/P/DIM 10/1	13	G13	82	5000	70,000	2100	180°	Plastic	A, C	PXIK4NU7	10 (400)

1. Bare lamp wattage. For system wattage see charts on last page.

2. LED lifetime means the length of time (in hours) until half of the LED light sources maintain at least 70% of their initial lumen output (B50, L70). Testing with a ballast whose ballast factor is ≤ 0.88 .

3. DLC Product ID list is for UL Type A only. The product may also be DLC certified as UL Type C. To verify search the DLC QPL using the model number.

Many lamps claim compatibility. **InstantFit proves it.**

Philips InstantFit LED lamps

Ordering, electrical and technical data (Subject to change without notice)



Product No. (6nc)	DLC Model No. (12nc)	Product Description	Lamp Watts ¹	Base	CRI (min)	CCT (K)	Lifetime ² (hrs)	Lumens (lm)	Beam	Lamp Material	UL Type	DLC Product ID ³	Lamps per Case (Pallet)
4-FT - T8 Magnetic (T12) & Electronic (T8) Ballast Compatible⁴													
539972	9290019659	16T8/LED/48-840/UF18/G 10/1	16	G13	82	4000	36,000	1800	240°	Glass	A (HF+EM)*	Not DLC	10 (650)
539980	9290019660	16T8/LED/48-850/UF18/G 10/1	16	G13	82	5000	36,000	1800	240°	Glass	A (HF+EM)*	Not DLC	10 (650)

* These lamps work on magnetic and electronic ballasts

Product No. (6nc)	DLC Model No. (12nc)	Product Description	Average System Watts (W)				Initial Lumens		
			Bare Lamp Watts (W)	Low Ballast Factor (0.78)	Normal Ballast Factor (0.88)	High Ballast Factor (1.18)	Low Ballast Factor (0.78)	Normal Ballast Factor (0.88)	High Ballast Factor (1.18)
4-FT - T8 Magnetic (T12) & Electronic (T8) Ballast Compatible⁴									
539972	9290019659	16T8/LED/48-840/UF18/G 10/1 FB	16	17	19	22.5	1600	1800	2100
539980	9290019660	16T8/LED/48-850/UF18/G 10/1 FB	16	17	19	22.5	1600	1800	2100

Photometric testing consistent with IES LM-79

* These lamps work on magnetic and electronic ballasts

System wattage of the Philips InstantFit T8 vs a comparable linear T12 (Measured data provided as a reference)

System power may vary depending on ballast manufacturer and ballast age. Please refer to www.philips.com/instantfit for the latest ballast compatibility guide.

Ballast Model No.	Manufacturer	System Voltage	Number of Lamps	System Power (W) T12 Fluorescent	System Power (W) T8 LED	Energy Savings (%)
4-FT - T8 Magnetic (T12) & Electronic (T8) Ballast Compatible						
R-140-1-TP	Philips Advance	120	1	52.1	26.1	50.00%
RL-140-TP	Philips Advance	120	1	32.8	25.6	21.70%
R-2S40-1-TP	Philips Advance	120	2	88.9	47.1	47.00%
XQM-2S40-TP	Philips Advance	220	2	95.5	51.9	45.60%
V-2S40-1-TP	Philips Advance	277	2	90.2	45.3	49.80%
RQM-2S40-3-TP	Philips Advance	120	2	86.9	46.4	46.60%
R-2S34-TP-5	Philips Advance	120	2	81.1	41.5	48.80%
V-2S34-TP	Philips Advance	277	2	79.2	42.6	46.30%
RM-2S35-TP	Philips Advance	120	2	60.9	41.2	32.40%

Energy Savings
based on comparison to F32T8 electronic instant start systems.

1. Bare lamp wattage. For system wattage see charts on last page.
2. LED lifetime means the length of time (in hours) until half of the LED light sources maintain at least 70% of their initial lumen output (B50, L70). Testing with a ballast whose ballast factor is ≤ 0.88 .
3. DLC Product ID list is for UL Type A only. The product may also be DLC certified as UL Type C. To verify search the DLC QPL using the model number.
4. Compatibility subject to change as additional ballasts are tested. If you do not see your ballast on the compatibility list please contact local Philips Lighting representative.

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Philips InstantFit LED lamps

Ballast technical data (Subject to change without notice)



Product No. (6nc)	Product Description	Dimming	Average System Watts ¹ (W)				Initial Nominal Lumens <small>Photometric testing consistent with IES LM-79</small>		
			Bare Lamp Watts (W)	Low Ballast Factor (0.78)	Normal Ballast Factor (0.88)	High Ballast Factor (1.18)	Low Ballast Factor (0.78)	Normal Ballast Factor (0.88)	High Ballast Factor (1.18)
2-FT - T8 MasterClass									
541813	7T8/MAS/24-830/IF10/P/DIM 10/1	Y	7	8.5	9.5	13.5	950	1050	1200
541821	7T8/MAS/24-835/IF10/P/DIM 10/1	Y	7	8.5	9.5	13.5	950	1050	1200
541839	7T8/MAS/24-840/IF11/P/DIM 10/1	Y	7	8.5	9.5	13.5	1050	1150	1300
541847	7T8/MAS/24-850/IF11/P/DIM 10/1	Y	7	8.5	9.5	13.5	1050	1150	1300
3-FT - T8 MasterClass									
539858	8.5T8/MAS/36-830/IF13/P/DIM 10/1	Y	8.5	10	11.5	15	1100	1300	1500
539866	8.5T8/MAS/36-835/IF13/P/DIM 10/1	Y	8.5	10	11.5	15	1200	1400	1600
539874	8.5T8/MAS/36-840/IF14/P/DIM 10/1	Y	8.5	10	11.5	15	1100	1300	1500
539882	8.5T8/MAS/36-850/IF14/P/DIM 10/1	Y	8.5	10	11.5	15	1200	1400	1600
4-FT - T8 Energy Advantage MasterClass									
565580	8.9T8/MAS/48-830/IF15/P/DIM 10/1	Y	8.9	10.5	12.5	15.5	1150	1500	1750
565598	8.9T8/MAS/48-835/IF15/P/DIM 10/1	Y	8.9	10.5	12.5	15.5	1150	1500	1750
565606	8.9T8/MAS/48-840/IF16/P/DIM 10/1	Y	8.9	10.5	12.5	15.5	1250	1600	1850
565614	8.9T8/MAS/48-850/IF16/P/DIM 10/1	Y	8.9	10.5	12.5	15.5	1250	1600	1850
4-FT - T8 Energy Advantage CorePro									
553214	10T8/COR/48-830/IF15/G/DIM 10/1	Y	10	12	13	17.5	1300	1500	1700
553222	10T8/COR/48-835/IF15/G/DIM 10/1	Y	10	12	13	17.5	1300	1500	1800
553230	10T8/COR/48-840/IF16/G/DIM 10/1	Y	10	12	13	17.5	1450	1600	2100
553248	10T8/COR/48-850/IF16/G/DIM 10/1	Y	10	12	13	17.5	1450	1600	2100
4-FT - T8 CorePro									
542084	16T8/LED/48-840/IF18/G 25/1	N	16	14.5	20	22	1400	1800	2150
542092	16T8/LED/48-850/IF18/G 25/1	N	16	14.5	20	22	1400	1800	2150
4-FT - T8 High Output MasterClass									
473926	13T8/MAS/48-830/IF20/P/DIM 10/1	Y	13	14	16	21.5	1800	2000	2700
473934	13T8/MAS/48-835/IF20/P/DIM 10/1	Y	13	14	16	21.5	1800	2000	2700
473942	13T8/MAS/48-840/IF21/P/DIM 10/1	Y	13	14	16	21.5	1900	2100	2800
473958	13T8/MAS/48-850/IF21/P/DIM 10/1	Y	13	14	16	21.5	1900	2100	2800
4-FT - T8 High Output CorePro									
470096	14T8/COR/48-830/IF20/G/DIM 10/1	Y	14	15	17	23	1750	2000	2350
470104	14T8/COR/48-835/IF20/G/DIM 10/1	Y	14	15	17	23	1750	2000	2350
470112	14T8/COR/48-840/IF21/G/DIM 10/1	Y	14	15	17	23	1850	2100	2450
470120	14T8/COR/48-850/IF21/G/DIM 10/1	Y	14	15	17	23	1850	2100	2450
4-FT - T8 Ultra High Output MasterClass									
545178	15.5T8/MAS/48-830/IF23/P/DIM 25/1	Y	15.5	16	19	25	2000	2400	2950
533372	15.5T8/MAS/48-835/IF24/P/DIM 25/1	Y	15.5	16	19	25	2000	2400	2950
545194	15.5T8/MAS/48-840/IF25/P/DIM 25/1	Y	15.5	16	19	25	2100	2500	3050
545200	15.5T8/MAS/48-850/IF25/P/DIM 25/1	Y	15.5	16	19	25	2100	2500	3050
8-FT - T8 Slimline MasterClass									
469247	35T8/96-3500 IF FA8 10/1	N	35	N/A	41	N/A	N/A	4000	N/A
469254	35T8/96-4000 IF FA8 10/1	N	35	N/A	41	N/A	N/A	4200	N/A
8-FT - T8 Slimline MasterClass									
533000	30T8/PRO/96-830/IF39/G/FA8 10/1	N	30	N/A	30	N/A	N/A	4000	N/A
533018	30T8/PRO/96-835/IF39/G/FA8 10/1	N	30	N/A	30	N/A	N/A	4000	N/A
533026	30T8/PRO/96-840/IF42/G/FA8 10/1	N	30	N/A	30	N/A	N/A	4200	N/A
533034	30T8/PRO/96-850/IF42/G/FA8 10/1	N	30	N/A	30	N/A	N/A	4200	N/A
U-bend - T8 High Output MasterClass									
541854	13T8-6U/MAS/24-830/IF20/P/DIM 10/1	Y	13	14	16	21	1800	2000	2700
541862	13T8-6U/MAS/24-835/IF20/P/DIM 10/1	Y	13	14	16	21	1800	2000	2700
541870	13T8-6U/MAS/24-840/IF21/P/DIM 10/1	Y	13	14	16	21	1900	2100	2800
541888	13T8-6U/MAS/24-850/IF21/P/DIM 10/1	Y	13	14	16	21	1900	2100	2800

1. Measured data provided as a reference. System power may vary depending on ballast manufacturer and ballast age. Please refer to www.philips.com/instantfit for the latest ballast compatibility guide.

Many lamps claim compatibility. **InstantFit proves it.**

Philips InstantFit LED lamps

Philips TLED types

G13

Type A InstantFit



Fastest ROI Plug-and-play

Compatible ballast types:

- Instant-Start
- Programmed start
- Programmed start dimmable
- Emergency

Type A UniversalFit



Plug-and-play¹ on magnetic and electronic ballasts

Compatible ballast types:

- Instant-Start (Electronic)
- Magnetic (T12)
- Emergency

Type B MainsFit



Long term simplicity

Compatible ballast types:

- No ballast required
- Compatible with emergency backup lighting inverters (Bodine ELI-S series)

Type C InstantFit



Most efficient solution

Compatible ballast types:

- Many Philips Type A lamps double as our Type C lamps
 - Type C when paired with our range of TLED drivers.
- See <https://www.signify.com/en-us/brands/advance/ballasts>

1. Compatibility subject to change as additional ballasts are tested. If you do not see your ballast on the compatibility list please contact your local Philips Lighting representative. Always verify ballast compatibility using the Philips Ballast Compatibility Guide (PLT-16118CR) before installation.

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