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 savings**[1]
  Over fluorescent means continual payback for the life of the product.

- **Lifetime delivered**[2]
  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 flexibility**[3]
  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 flicker**[4]
  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)   ⫢ G13

Product No. (6nc)	DLC Model No.	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)
2-FT – T8 MasterClass													
541813	929001986904	7T8/MAS/24-830/IF10/P/DIM 10/1	7	G13	80	3000	70,000	1050	180	Plastic	A, C	P604TTJI	10 (2380)
541821	929001987004	7T8/MAS/24-835/IF10/P/DIM 10/1	7	G13	80	3500	70,000	1050	180	Plastic	A, C	PEDQX1TU	10 (2380)
541839	929001987104	7T8/MAS/24-840/IF11/P/DIM 10/1	7	G13	80	4000	70,000	1150	180	Plastic	A, C	P8JF6K21	10 (2380)
541847	929001987204	7T8/MAS/24-850/IF11/P/DIM 10/1	7	G13	80	5000	70,000	1150	180	Plastic	A, C	PSUTWB5O	10 (2380)
3-FT – T8 MasterClass													
539858	929001967504	8.5T8/MAS/36-830/IF13/P/DIM 10/1	8.5	G13	80	3000	70,000	1300	180	Plastic	A, C	P9LGXT7H	10 (1530)
539866	929001967904	8.5T8/MAS/36-835/IF13/P/DIM 10/1	8.5	G13	80	3500	70,000	1300	180	Plastic	A, C	P3WOXMJG	10 (1530)
539874	929001967604	8.5T8/MAS/36-840/IF14/P/DIM 10/1	8.5	G13	80	4000	70,000	1400	180	Plastic	A, C	PF3H4S7D	10 (1530)
539882	929001967704	8.5T8/MAS/36-850/IF14/P/DIM 10/1	8.5	G13	80	5000	70,000	1400	180	Plastic	A, C	PFS6JOSC	10 (1530)
4-FT – T8 Energy Advantage MasterClass													
565580	929003025304	8.9T8/MAS/48-830/IF15/P/DIM 10/1	8.9	G13	80	3000	70,000	1500	180	Plastic	A, C	PTD1V27Q	10 (1190)
565598	929003025404	8.9T8/MAS/48-835/IF15/P/DIM 10/1	8.9	G13	80	3500	70,000	1500	180	Plastic	A, C	PCYCNPOO	10 (1190)
565606	929003025504	8.9T8/MAS/48-840/IF16/P/DIM 10/1	8.9	G13	80	4000	70,000	1600	180	Plastic	A, C	P1GPHJTW	10 (1190)
565614	929003025604	8.9T8/MAS/48-850/IF16/P/DIM 10/1	8.9	G13	80	5000	70,000	1600	180	Plastic	A, C	PTB8BS59	10 (1190)
473926	929001397634	13T8/MAS/48-830/IF20/P/DIM 10/1	13	G13	82	3000	70,000	2000	180	Plastic	A, C	PFNHMX20	10 (1190)
473934	929001397734	13T8/MAS/48-835/IF20/P/DIM 10/1	13	G13	82	3500	70,000	2000	180	Plastic	A, C	P3WDP0ZD	10 (1190)
473942	929001397834	13T8/MAS/48-840/IF21/P/DIM 10/1	13	G13	82	4000	70,000	2100	180	Plastic	A, C	PR2M8SZF	10 (1190)
473958	929001397934	13T8/MAS/48-850/IF21/P/DIM 10/1	13	G13	82	5000	70,000	2100	180	Plastic	A, C	P0SZ7HFJ	10 (1190)
545178	929002016204	15.5T8/MAS/48-830/IF23/P/DIM 25/1	15.5	G13	83	3000	70,000	2500	N/A	Plastic	A, C	PBLYY9EE	25 (1400)
533372	929002016304	15.5T8/MAS/48-835/IF24/P/DIM 25/1	15.5	G13	82	3500	70,000	2400	180	Plastic	A, C	PSFL2WNH	25 (1400)
545194	929002016404	15.5T8/MAS/48-840/IF25/P/DIM 25/1	15.5	G13	82	4000	70,000	2500	240	Plastic	A, C	P0YC5BK7	25 (1400)
545200	929002016504	15.5T8/MAS/48-850/IF25/P/DIM 25/1	15.5	G13	82	5000	70,000	2500	240	Plastic	A, C	P3QLTIV1	25 (1400)
4-FT – T8 Energy Advantage CorePro													
553214	929002252734	10T8/COR/48-830/IF15/G/DIM 10/1	10	G13	82	3000	50,000	1500	240	Glass	A	PQF8SUD6	10 (600)
553222	929002252834	10T8/COR/48-835/IF15/G/DIM 10/1	10	G13	82	3500	50,000	1500	240	Glass	A	PVEGD8IP	10 (2700)
553230	929001991734	10T8/COR/48-840/IF16/G/DIM 10/1	10	G13	82	4000	50,000	1600	240	Glass	A	PMMN0O6E	10 (600)
553248	929001991834	10T8/COR/48-850/IF16/G/DIM 10/1	10	G13	82	5000	50,000	1600	240	Glass	A	P6YC6AM6	10 (2700)
580266	929003556504	11.5T8/COR/48-835/IF20/G/DIM 25/1	11.5	G13	82	3500	50,000	2000	240	Glass	A	S-B7LKH5	25 (900)
580274	929003556604	11.5T8/COR/48-840/IF21/G/DIM 25/1	11.5	G13	82	4000	50,000	2100	240	Glass	A	S-C4HNIU	25 (900)
470096	929001343034	14T8/COR/48-830/IF20/G/DIM 10/1	14	G13	82	3000	50,000	2000	240	Glass	A, C	PUHWMP7I	10 (650)
470104	929001343134	14T8/COR/48-835/IF20/G/DIM 10/1	14	G13	82	3500	50,000	2000	240	Glass	A, C	PD9P382I	10 (650)
470112	929001343234	14T8/COR/48-840/IF21/G/DIM 10/1	14	G13	82	4000	50,000	2100	240	Glass	A, C	PK33B4AL	10 (650)
470120	929001343334	14T8/COR/48-850/IF21/G/DIM 10/1	14	G13	82	5000	50,000	2100	240	Glass	A, C	PEQWC6CZ	10 (650)
542084	929001960604	16T8/LED/48-840/IF18/G 25/1	16	G13	82	4000	36,000	1800	240	Glass	A	No	25 (900)
542092	929001960704	16T8/LED/48-850/IF18/G 25/1	16	G13	82	5000	36,000	1800	240	Glass	A	No	25 (900)
8-FT – T8 CorePro													
580282	929003556704	28T8/COR/96-835/IF40/G/FA8 10/1	28	FA8	82	3500	50,000	4000	160	Glass	A	No	10 (660)
580290	929003556804	28T8/COR/96-840/IF42/G/FA8 10/1	28	FA8	82	4000	50,000	4200	160	Glass	A	No	10 (660)
588517	929001897434	28T8/COR/96-850/IF42/G/FA8 10/1	28	FA8	82	5000	50,000	4000	160	Glass	A	No	10 (660)
Contractor-grade Circline													
588095	929003740604	11CIR/CNG/8-4CCT/IF12/P/G10q 6/1	11	G10q	82	3000/3500/4000/5000	50,000	1200	250	Plastic	A	No	6 (100)
588103	929003740704	16CIR/CNG/12-4CCT/IF17/P/G10q 6/1	16	G10q	82	3000/3500/4000/5000	50,000	1700	250	Plastic	A	No	6 (48)
605010	929004236004	22CIR/CNG/16-4CCT/IF26/P/G10q 6/1	22	G10q	82	3000/3500/4000/5000	50,000	2600	250	Plastic	A	No	6 (30)

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

Product No. (6nc)	DLC Model No.	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)
U-Bent MasterClass													
541854	929001987404	13T8-6U/MAS/24-830/IF20/P/DIM 10/1	13	G13	82	3000	70,000	2000	180	Plastic	A	P67SZONC	10 (400)
541862	929001987504	13T8-6U/MAS/24-835/IF20/P/DIM 10/1	13	G13	82	3500	70,000	2000	180	Plastic	A	P3IX39Q8	10 (400)
541870	929001987604	13T8-6U/MAS/24-840/IF21/P/DIM 10/1	13	G13	82	4000	70,000	2100	180	Plastic	A	PWVWA4NI	10 (400)
541888	929001987704	13T8-6U/MAS/24-850/IF21/P/DIM 10/1	13	G13	82	5000	70,000	2100	180	Plastic	A	PA88I3S4	10 (400)
4-FT – T8 Magnetic (T12) & Electronic (T8) Ballast Compatible													
539972	929001965904	16T8/LED/48-840/UF18/G 10/1	16	G13	82	4000	36,000	1800	240	Glass	A	No	10 (650)
539980	929001966004	16T8/LED/48-850/UF18/G 10/1	16	G13	82	5000	36,000	1800	240	Glass	A	No	10 (650)

Ballast technical data (Subject to change without notice)
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Product No. (6nc)	Product Description	Dimming	Bare Lamp Watts (W)	Average System Watts[1] (W)			Initial Lumens Photometric testing consistent with IES LM-79		
				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	950	1150	1200
541847	7T8/MAS/24-850/IF11/P/DIM 10/1	Y	7	8.5	9.5	13.5	950	1150	1200
3-FT – T8 MasterClass									
539858	8.5T8/MAS/36-830/IF13/P/DIM 10/1	Y	8.5	10.3	11.5	16.4	1175	1300	1485
539866	8.5T8/MAS/36-835/IF13/P/DIM 10/1	Y	8.5	10.3	11.5	16.4	1175	1300	1485
539874	8.5T8/MAS/36-840/IF14/P/DIM 10/1	Y	8.5	10.3	11.5	16.4	1265	1400	1600
539882	8.5T8/MAS/36-850/IF14/P/DIM 10/1	Y	8.5	10.3	11.5	16.4	1265	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
473926	13T8/MAS/48-830/IF20/P/DIM 10/1	Y	13	14.0	16.0	21.5	1800	2000	2700
473934	13T8/MAS/48-835/IF20/P/DIM 10/1	Y	13	14.0	16.0	21.5	1800	2000	2700
473942	13T8/MAS/48-840/IF21/P/DIM 10/1	Y	13	14.0	16.0	21.5	1900	2100	2800
473958	13T8/MAS/48-850/IF21/P/DIM 10/1	Y	13	14.0	16.0	21.5	1900	2100	2800
545178	15.5T8/MAS/48-830/IF23/P/DIM 25/1	Y	15.5	16.0	19.0	25.0	2000	2500	2950
533372	15.5T8/MAS/48-835/IF24/P/DIM 25/1	Y	15.5	16.0	19.0	25.0	2000	2400	2950
545194	15.5T8/MAS/48-840/IF25/P/DIM 25/1	Y	15.5	16.0	19.0	25.0	2100	2500	3050
545200	15.5T8/MAS/48-850/IF25/P/DIM 25/1	Y	15.5	16.0	19.0	25.0	2100	2500	3050
4-FT – T8 CorePro									
553214	10T8/COR/48-830/IF15/G/DIM 10/1	Y	10	12.0	13.0	17.5	1355	1500	1715
553222	10T8/COR/48-835/IF15/G/DIM 10/1	Y	10	12.0	13.0	17.5	1355	1500	1715
553230	10T8/COR/48-840/IF16/G/DIM 10/1	Y	10	12.0	13.0	17.5	1450	1600	1830
553248	10T8/COR/48-850/IF16/G/DIM 10/1	Y	10	12.0	13.0	17.5	1450	1600	1830
580266	11.5T8/COR/48-835/IF20/G/DIM 25/1	Y	11.5	14.0	15.0	20.0	1810	2000	2285
580274	11.5T8/COR/48-840/IF21/G/DIM 25/1	Y	11.5	14.0	15.0	20.0	1900	2100	2400
470096	14T8/COR/48-830/IF20/G/DIM 10/1	Y	14	15.0	17.0	23.0	1750	2000	2350
470104	14T8/COR/48-835/IF20/G/DIM 10/1	Y	14	15.0	17.0	23.0	1750	2000	2350
470112	14T8/COR/48-840/IF21/G/DIM 10/1	Y	14	15.0	17.0	23.0	1850	2100	2450
470120	14T8/COR/48-850/IF21/G/DIM 10/1	Y	14	15.0	17.0	23.0	1850	2100	2450
542084	16T8/LED/48-840/IF18/G 25/1	N	16	14.5	20.0	22.0	1400	1800	2100
542092	16T8/LED/48-850/IF18/G 25/1	N	16	14.5	20.0	22.0	1400	1800	2100
8-FT – T8 CorePro									
580282	28T8/COR/96-835/IF40/G/FA8 10/1	N	28	N/A	28.0	N/A	N/A	4000	N/A
580290	28T8/COR/96-840/IF42/G/FA8 10/1	N	28	N/A	28.0	N/A	N/A	4200	N/A
588517	28T8/COR/96-850/IF42/G/FA8 10/1	N	28	N/A	28.0	N/A	N/A	4000	N/A
U-bend – T8 High Output MasterClass									
541854	13T8-6U/MAS/24-830/IF20/P/DIM 10/1	Y	13	14.0	16.0	21.0	1800	2000	2200
541862	13T8-6U/MAS/24-835/IF20/P/DIM 10/1	Y	13	14.0	16.0	21.0	1800	2000	2200
541870	13T8-6U/MAS/24-840/IF21/P/DIM 10/1	Y	13	14.0	16.0	21.0	1900	2100	2400
541888	13T8-6U/MAS/24-850/IF21/P/DIM 10/1	Y	13	14.0	16.0	21.0	1900	2100	2400

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

Philips TLED types

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Product No. (6nc)	DLC Model No. (12nc)	Product Description	Average System Watts (W)			Initial Lumens Photometric testing consistent with IES LM-79		
			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 Compatible[4]							* These lamps work on magnetic and electronic ballasts.		
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

Type A InstantFit

Fastest ROI Plug-and-play

Compatible ballast types:
- Instant-Start
- Programmed start
- Programmed start dimmable
- Emergency

Type A UniversalFit

or

Plug-and-play[1] 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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