

# PHILIPS

LED

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<sup>2</sup>** over fluorescent means continual payback for the life of the product
- **Lifetime delivered** — average life rating of 50,000 hours<sup>3</sup>, with up to 70,000 hours<sup>3</sup>
- **Shatter prevention**— unlike competitors' coated glass lamps, our polycarbonate lamps prevent breakage, not just contain the shattered glass
- **Light quality and performance predictability**— consistent light output and no flicker means delighted customers
- **Proven product history** and a company with a long history of innovation and reliability in the lighting industry
- **No perceivable flicker<sup>12</sup>** – all InstantFit lamps have SVM below 1.0
- **Powerful flexibility** –most Philips InstantFit lamps operate as both UL Type A and UL Type C<sup>8</sup> lamps

### Light to go

Compatible configurations

Lamps

10T8/COR/48-840/IF16/G 10/1

10T8/COR/48-850/IF16/G 10/1

30T8/PER/96-840/IF42/P/FA8 10/1

30T8/PER/96-850/IF42/P/FA8 10/1

34T8/COR/96-840/MF42/G/FA8 10/1

34T8/COR/96-850/MF42/G/FA8 10/1

44T8HO/COR/96-840/MF54/G/R17d 10/1

44T8HO/COR/96-850/MF54/G/R17d 10/1



# Philips InstantFit LED lamps

## Philips InstantFit LED T12/T8 magnetic and electronic ballast compatible lamps

Product Number	DLC Model Number	Product Description	Lamp Watts	Base	CRI	Color Temp. (K)	LED Lifetime <sup>4</sup>	Lumens	Beam	Lamp Material	UL Type	DLC Product ID <sup>3</sup>	Lamps per Case (Pallet)
<b>4-FT T8 (Magnetic (T12) &amp; Electronic (T8) Ballast Compatible)<sup>5,10</sup></b>													
539972	9290019659	16T8/LED/48-840/UF18/G 10/1	16	G13	82	4000	36,000	1800	240°	Glass	A (HF+EM) <sup>10</sup>	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) <sup>10</sup>	Not DLC	10 (650)

## Philips InstantFit LED T12/T8 magnetic and electronic ballast compatible lamps

Product Number	Product Description	Bare Lamp Watts (W)	Average System Watts (W)			Initial Lumens <sup>6</sup>		
			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)
<b>4-FT T8 (Magnetic (T12) &amp; Electronic (T8) Ballast Compatible)<sup>5,10</sup></b>								
539972	16T8/LED/48-840/UF18/G 10/1 FB	16	17	19	22.5	1600	1800	2100
539980	16T8/LED/48-850/UF18/G 10/1 FB	16	17	19	22.5	1600	1800	2100

## System wattage of the Philips InstantFit T8 vs a comparable linear T12<sup>7</sup>

Ballast Model No.	Manufacturer	System Voltage	No. of Lamps	System Power (W) T12 Fluorescent	System Power (W) T8 LED	Energy Savings (%) <sup>9</sup>
R-140-1-TP	Philips Advance	120	1	52.1	26.1	50.0%
RL-140-TP	Philips Advance	120	1	32.8	25.6	21.7%
R-2S40-1-TP	Philips Advance	120	2	88.9	47.1	47.0%
XQM-2S40-TP	Philips Advance	220	2	95.5	51.9	45.6%
V-2S40-1-TP	Philips Advance	277	2	90.2	45.3	49.8%
RQM-2S40-3-TP	Philips Advance	120	2	86.9	46.4	46.6%
R-2S34-TP-5	Philips Advance	120	2	81.1	41.5	48.8%
V-2S34-TP	Philips Advance	277	2	79.2	42.6	46.3%
RM-2S35-TP	Philips Advance	120	2	60.9	41.2	32.4%

# Philips InstantFit LED lamps

## Ballast technical data (Subject to change without notice)

Product Number	Product Description	Bare Lamp Watts (W)	Average System Watts (W) <sup>7</sup>			Initial Lumens <sup>6</sup>		
			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)
<b>2-FT T8 MasterClass</b>								
541813	7T8/MAS/24-830/IF10/P 10/1	7	8.5	9.5	13.5	950	1050	1200
541821	7T8/MAS/24-835/IF10/P 10/1	7	8.5	9.5	13.5	950	1050	1200
541839	7T8/MAS/24-840/IF11/P 10/1	7	8.5	9.5	13.5	1050	1150	1300
541847	7T8/MAS/24-850/IF11/P 10/1	7	8.5	9.5	13.5	1050	1150	1300
<b>3-FT T8 MasterClass</b>								
539858	8.5T8/MAS/36-830/IF13/P 10/1	8.5	10.0	11.5	15.0	1100	1300	1500
539866	8.5T8/MAS/36-835/IF13/P 10/1	8.5	10.0	11.5	15.0	1200	1400	1600
539874	8.5T8/MAS/36-840/IF14/P 10/1	8.5	10.0	11.5	15.0	1100	1300	1500
539882	8.5T8/MAS/36-850/IF14/P 10/1	8.5	10.0	11.5	15.0	1200	1400	1600
<b>4-FT T8 Energy Advantage MasterClass</b>								
473974	9.5T8/MAS/48-830/IF15/P 10/1	9.5	10.5	12.5	15.5	1150	1500	1750
473982	9.5T8/MAS/48-835/IF15/P 10/1	9.5	10.5	12.5	15.5	1150	1500	1750
473990	9.5T8/MAS/48-840/IF16/P 10/1	9.5	10.5	12.5	15.5	1250	1600	1850
540807	9.5T8/MAS/48-840/IF16/P 25/1	9.5	10.5	12.5	15.5	1250	1600	1850
474007	9.5T8/MAS/48-850/IF16/P 10/1	9.5	10.5	12.5	15.5	1250	1600	1850
● 469569	10T8/48-3000 IF 10/1 TAA/NAFTA	10	11.0	13.0	16.0	1300	1500	1700
● 469577	10T8/48-3500 IF 10/1 TAA/NAFTA	10	11.0	13.0	16.0	1300	1500	1800
● 469585	10T8/48-4000 IF 10/1 TAA/NAFTA	10	11.0	13.0	16.0	1400	1600	1850
● 469593	10T8/48-5000 IF 10/1 TAA/NAFTA	10	11.0	13.0	16.0	1400	1600	1850
<b>4-FT T8 Energy Advantage CorePro</b>								
541986	10T8/COR/48-840/IF16/G 25/1	10	12.0	13.0	17.5	1450	1600	2100
541994	10T8/COR/48-850/IF16/G 25/1	10	12.0	13.0	17.5	1450	1600	2100
553214	10T8/COR/48-830/IF15/G 10/1	10	12.0	13.0	17.5	1300	1500	1700
553222	10T8/COR/48-835/IF15/G 10/1	10	12.0	13.0	17.5	1300	1500	1800
553230	10T8/COR/48-840/IF16/G 10/1	10	12.0	13.0	17.5	1450	1600	2100
553248	10T8/COR/48-850/IF16/G 10/1	10	12.0	13.0	17.5	1450	1600	2100
<b>4-FT T8 CorePro</b>								
542084	16T8/LED/48-840/IF18/G 25/1	16	14.5	20.0	22.0	1400	1800	2150
542092	16T8/LED/48-850/IF18/G 25/1	16	14.5	20.0	22.0	1400	1800	2150
<b>4-FT T8 High Output MasterClass</b>								
473926	13T8/MAS/48-830/IF20/P/DIM 10/1	13	14.0	16.0	21.5	1800	2000	2700
473934	13T8/MAS/48-835/IF20/P/DIM 10/1	13	14.0	16.0	21.5	1800	2000	2700
473942	13T8/MAS/48-840/IF21/P/DIM 10/1	13	14.0	16.0	21.5	1900	2100	2800
473958	13T8/MAS/48-850/IF21/P/DIM 10/1	13	14.0	16.0	21.5	1900	2100	2800
540799	13T8/MAS/48-840/IF21/P/DIM 25/1	13	14.0	16.0	21.5	1900	2100	2800
⊕ 468652	14T8/48-3000 IF 10/1 ROT	14	16.0	18.0	26.5	1800	2000	2700
⊕ 468660	14T8/48-3500 IF 10/1 ROT	14	16.0	18.0	26.5	1800	2000	2700
⊕ 468678	14T8/48-4000 IF 10/1 ROT	14	16.0	18.0	26.5	1900	2100	2800
⊕ 468686	14T8/48-5000 IF 10/1 ROT	14	16.0	18.0	26.5	1900	2100	2800
● 469601	14T8/48-3000 IF 10/1 DIM TAA/NAFTA	14	15.0	17.0	23.0	1800	2000	2700
● 469619	14T8/48-3500 IF 10/1 DIM TAA/NAFTA	14	15.0	17.0	23.0	1800	2000	2700
● 469627	14T8/48-4000 IF 10/1 DIM TAA/NAFTA	14	15.0	17.0	23.0	1900	2100	2800
● 469635	14T8/48-5000 IF 10/1 DIM TAA/NAFTA	14	15.0	17.0	23.0	1900	2100	2800
<b>4-FT T8 High Output CorePro</b>								
470096	14T8/PRO/48-830/IF20/G 10/1 FB	14	15.0	17.0	23.0	1750	2000	2350
470104	14T8/PRO/48-835/IF20/G 10/1 FB	14	15.0	17.0	23.0	1750	2000	2350
470112	14T8/PRO/48-840/IF21/G 10/1 FB	14	15.0	17.0	23.0	1850	2100	2450
470120	14T8/PRO/48-850/IF21/G 10/1 FB	14	15.0	17.0	23.0	1850	2100	2450
<b>4-FT T8 Ultra High Output MasterClass</b>								
533372	15.5T8/MAS/48-835/IF24/P 25/1	15.5	16.0	19.0	25.0	2000	2400	2950
545194	15.5T8/MAS/48-840/IF25/P 25/1	15.5	16.0	19.0	25.0	2100	2500	3050
545200	15.5T8/MAS/48-850/IF25/P 25/1	15.5	16.0	19.0	25.0	2100	2500	3050
<b>8-FT T8 Slimline MasterClass</b>								
469247	35T8/96-3500 IF FA8 10/1	35	N/A	41.0	N/A	N/A	4000	N/A
469254	35T8/96-4000 IF FA8 10/1	35	N/A	41.0	N/A	N/A	4200	N/A
<b>8-FT T8 Slimline CorePro</b>								
533000	30T8/PER/96-830/IF42/P/FA8 10/1	30	N/A	30.0	N/A	N/A	4000	N/A
533018	30T8/PER/96-835/IF42/P/FA8 10/1	30	N/A	30.0	N/A	N/A	4000	N/A
533026	30T8/PER/96-840/IF42/P/FA8 10/1	30	N/A	30.0	N/A	N/A	4200	N/A
533034	30T8/PER/96-850/IF42/P/FA8 10/1	30	N/A	30.0	N/A	N/A	4200	N/A
<b>6-inch U-bend High Output MasterClass</b>								
541854	13T8-6U/MAS/24-830/IF20/P 10/1	13	14.0	16.0	21.0	1800	2000	2700
541862	13T8-6U/MAS/24-835/IF20/P 10/1	13	14.0	16.0	21.0	1800	2000	2700
541870	13T8-6U/MAS/24-840/IF21/P 10/1	13	14.0	16.0	21.0	1900	2100	2800
541888	13T8-6U/MAS/24-850/IF21/P 10/1	13	14.0	16.0	21.0	1900	2100	2800

# Philips InstantFit LED lamps

## Philips TLED types

Type A  
InstantFit

Type A  
UniversalFit

Type B  
MainsFit

Type C  
InstantFit

or



*Fastest ROI  
Plug-and-play*

Compatible ballast types:

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

*Plug-and-play on  
both magnetic and  
electronic ballasts<sup>5,10,13</sup>*

Compatible ballast types:

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

*Long term simplicity*

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

*Most efficient solution*

- 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. Based on the next leading competitor and their number of compatible ballasts at time of printing.
2. Savings based on comparison to F32T8 electronic instant start systems.
3. Tested to B50 L70 requirement with a ballast factor < 0.88.
4. 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
5. 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.
6. Photometric testing consistent with IES LM-79.
7. Measured data provided as a reference. System power may vary depending on ballast manufacturer and ballast age. Please refer to [www.philips.com/instantfit](http://www.philips.com/instantfit) for the latest ballast compatibility guide.
8. 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.

9. Bare lamp wattage. For system wattage see charts below
  10. These lamps work on both magnetic and electronic ballasts.
  11. This product is DLC listed as Type C only. It is not DLC as a Type A lamp.
  12. Refer to NEMA77, IEC 61547 & IEC 63158 standard for SVM (Stroboscopic Visibility Measure).
  13. Always verify ballast compatibility using the Philips Ballast Compatibility Guide (PLT-16118CR) before installation.
- Products offered under the Trade Agreements Act (TAA). For more information, visit <http://www.va.gov/oal/business/fss/taa.asp>  
*Not all products are qualified on the DLC QPL. To view our DLC qualified products, please consult the DLC Qualified Products List at [www.designlights.org/search](http://www.designlights.org/search).*
  - Endcap rotates.

