PHILIPS

LED

InstantFit T5 HE

This is **real performance**

Philips has set the bar on compatibility delivering on three key areas: light output, lifetime and energy savings. Our InstantFit T5 lamps deliver on this promise, backed by a company that has led the lighting revolution for over a century. Make Philips T5 HE your choice.

· **InstantFit works with many ballasts –** have confidence and know it is going to perform as expected and keep you from having to redo any jobs

· **2' and 3' lamps work on both HE and HO ballasts**

· **Proven over 40% energy savings**[1] over fluorescent

· **Lifetime delivered –** average life rating of 50,000 hours[2]

· **Light quality and performance predictability –** consistent light output and no visible flicker[3] means satisfied happy customers

· **Proven product history** and a company with a long history of innovation and reliability in the lighting industry

· **Wide 200° beam angle** – 300° illumination angle

· **T5 HE lamps are dimmable**

· **Operating Temperature** – –20 °C to +45 °C

See footnotes on last page.

Philips InstantFit LED T5 HE lamps

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

Product Number	Model Number(s)	DLC Product ID	Ordering Code	Base	CRI	Lamp Watts	Lamp Lumens[4]	Color Temp. (K)	Pkg Qty	Lamp Lifetime[2]	MOL (In.)	Beam Angle
InstantFit LED T5 HE												
47649-9	9290018239	PI0H91X1	14T5HE/48-830/IF20/G/DIM 10/1	G5	82	14	2000	3000	10	50,000	48	200°
47650-7	9290018240	PX50DKZF	14T5HE/48-835/IF20/G/DIM 10/1	G5	82	14	2000	3500	10	50,000	48	200°
47651-5	9290018241	P2RN9SKT	14T5HE/48-840/IF21/G/DIM 10/1	G5	82	14	2100	4000	10	50,000	48	200°
47652-3	9290018242	PLAEVGFO	14T5HE/48-850/IF21/G/DIM 10/1	G5	82	14	2100	5000	10	50,000	48	200°
47645-7	9290018235	No DLC Category	11T5HE/36-830/IF14/DIM 10/1	G5	82	11	1400	3000	10	50,000	36	200°
47646-5	9290018236	No DLC Category	11T5HE/36-835/IF14/DIM 10/1	G5	82	11	1400	3500	10	50,000	36	200°
47647-3	9290018237	No DLC Category	11T5HE/36-840/IF15/DIM 10/1	G5	82	11	1500	4000	10	50,000	36	200°
47648-1	9290018238	No DLC Category	11T5HE/36-850/IF15/DIM 10/1	G5	82	11	1500	5000	10	50,000	36	200°
47641-6	9290018231	No DLC Category	8T5HE/24-830/IF10/DIM 10/1	G5	82	8	1000	3000	10	50,000	24	200°
47642-4	9290018232	No DLC Category	8T5HE/24-835/IF10/DIM 10/1	G5	82	8	1000	3500	10	50,000	24	200°
47643-2	9290018233	No DLC Category	8T5HE/24-840/IF10/DIM 10/1	G5	82	8	1050	4000	10	50,000	24	200°
47644-0	9290018234	No DLC Category	8T5HE/24-850/IF10/DIM 10/1	G5	82	8	1050	5000	10	50,000	24	200°

Ballast technical data (Subject to change without notice)

Product Number	Bare Lamp Watts (W)	Average System Watts (W)		Initial Lumens[4]		Lamp Lifetime[2]	
		HE Ballast	HO Ballast	HE Ballast	HO Ballast	HE Ballast	HO Ballast
InstantFit LED T5 HE							
47649-9	14	16	N/A	2000	N/A	50,000	N/A
47650-7	14	16	N/A	2000	N/A	50,000	N/A
47651-5	14	16	N/A	2100	N/A	50,000	N/A
47652-3	14	16	N/A	2100	N/A	50,000	N/A
47645-7	11	13	23.5	1400	2650	50,000	40,000
47646-5	11	13	23.5	1400	2650	50,000	40,000
47647-3	11	13	23.5	1500	2850	50,000	40,000
47648-1	11	13	23.5	1500	2850	50,000	40,000
47641-6	8	9.5	16	1000	1800	50,000	40,000
47642-4	8	9.5	16	1000	1800	50,000	40,000
47643-2	8	9.5	16	1050	1850	50,000	40,000
47644-0	8	9.5	16	1050	1850	50,000	40,000

Shipping data (Subject to change without notice)

Product Number	SKU UPC (0-46677)	Outer Bar Code (5-00-46677)	Case Qty.	Case Weight (lbs.)	Case Cube (cu. Ft.)	Pallet Qty	SKUs per Layer	Layers High	SKU Dimensions (L x W x H) (In.)	Case Dimensions (L x W x H) (In.)	Pallet Dimensions (L x W x H) (In.)
InstantFit LED T5 HE											
47649-9	47649-6	47649-1	10	5.01	1.1	780	60	13	45.8 x 0.8 x 5.4	48.1 x 6.5 x 6.1	48.9 x 40.0 x 49.1
47650-7	47650-2	47650-7	10	5.01	1.1	780	60	13	45.8 x 0.8 x 5.4	48.1 x 6.5 x 6.1	48.9 x 40.0 x 49.1
47651-5	47651-9	47651-4	10	5.01	1.1	780	60	13	45.8 x 0.8 x 5.4	48.1 x 6.5 x 6.1	48.9 x 40.0 x 49.1
47652-3	47652-6	47652-1	10	5.01	1.1	780	60	13	45.8 x 0.8 x 5.4	48.1 x 6.5 x 6.1	48.9 x 40.0 x 49.1
47645-7	47645-8	47645-3	10	4.27	0.5	910	70	13	34.0 x 0.8 x 0.8	36.3 x 6.5 x 3.7	47.2 x 39.4 x 53.7
47646-5	47646-5	47646-0	10	4.27	0.5	910	70	13	34.0 x 0.8 x 0.8	36.3 x 6.5 x 3.7	47.2 x 39.4 x 53.7
47647-3	47647-2	47647-7	10	4.27	0.5	910	70	13	34.0 x 0.8 x 0.8	36.3 x 6.5 x 3.7	47.2 x 39.4 x 53.7
47648-1	47648-9	47648-4	10	4.27	0.5	910	70	13	34.0 x 0.8 x 0.8	36.3 x 6.5 x 3.7	47.2 x 39.4 x 53.7
47641-6	47641-0	47641-5	10	3.11	0.33	1560	120	13	22.2 x 0.8 x 0.8	24.4 x 6.5 x 3.6	49.6 x 39.8 x 52.7
47642-4	47642-7	47642-2	10	3.11	0.33	1560	120	13	22.2 x 0.8 x 0.8	24.4 x 6.5 x 3.6	49.6 x 39.8 x 52.7
47643-2	47643-4	47643-9	10	3.11	0.33	1560	120	13	22.2 x 0.8 x 0.8	24.4 x 6.5 x 3.6	49.6 x 39.8 x 52.7
47644-0	47644-1	47644-6	10	3.11	0.33	1560	120	13	22.2 x 0.8 x 0.8	24.4 x 6.5 x 3.6	49.6 x 39.8 x 52.7

Please refer to www.philips.com/instantfit for instant start ballasts details and the latest ballast compatibility guide[5].

For more information on Philips' limited warranty please visit www.philips.com/warranties.

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

See footnotes on last page.

Philips InstantFit LED T5 HE lamps

Ballast Compatibility (Subject to change without notice)

Manufacturer	Ballast Model	8 W 1050 lm (2 ft. Glass) 476416, 476424 476432, 476440 System Certified[6]/Certified[7]	11 W 1500 lm (3 ft. Glass) 476457, 476465 476473, 476481 System Certified[6]/Certified[7]	14 W 2100 lm (4 ft. Glass) 476499, 476507 476515, 476523 System Certified[6]/Certified[7]
Philips Advance	ICN-2S24-N	System Certified	System Certified	
Philips Advance	ICN-2S24-T	System Certified	System Certified	
Philips Advance	ICN-2S28-N	System Certified	System Certified	System Certified
Philips Advance	ICN-2S28-T	System Certified	System Certified	System Certified
Philips Advance	GCN-2S28-L	System Certified	System Certified	System Certified
Philips Advance	IZT-2S28-D	System Certified	System Certified	System Certified
Osram Sylvania	QHE 2X39-24T5HO/UNV PSN	Certified	Certified	
Osram Sylvania	QTP 2X28T5/UNV PSN	Certified	Certified	Certified
Osram Sylvania	QHE 2X28T5/UNV PSN	Certified*	Certified*	Certified
General Electric	GE228MVPS-MC	Certified*	Certified*	Certified*
General Electric	GE228MVPS-MC-H	Certified	Certified	Certified
Universal Lighting Technologies	B224PUNV-C	Certified	Certified	
Universal Lighting Technologies	B228PUNV-C	Certified	Certified	Certified
Universal Lighting Technologies	B228PUNV-N	Certified	Certified	Certified
Universal Lighting Technologies	B228PUNV85-D	Certified	Certified	Certified
Universal Lighting Technologies	B239PUNV-D	Certified*	Certified*	
Keystone	KTEB-228HE-UV-PS	Certified	Certified	Certified
Keystone	KTEB-228HE-UV-PS-SL	Certified	Certified	Certified
Fulham	RHA-UNV-228-LT5	Certified	Certified	Certified
Robertson	PSA228T5MV	Certified	Certified	Certified

*This ballast is compatible for two(2) lamp configuration only.

1. Energy savings based on comparison to F28T5 electronic instant start systems.
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).
3. Flicker is not visible as PstLM at < 0.5 – check at www.philips.com/tled for product information
4. Photometric testing consistent with IES LM-79.
5. Please refer to www.philips.com/InstantFit for the latest ballast compatibility guide.
6. System performance (Philips InstantFit LED T5 lamps and ballast) has been evaluated by the lamp and ballast manufacturer.
7. System performance (Philips InstantFit LED T5 lamps and ballast) has been evaluated by the lamp manufacturer only.

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.