

PHILIPS

LED

InstantFit lamps



Easily upgrade to LED from fluorescent.

Philips InstantFit LED T8 and 4-pin long compact (PL-L) lamps are an ideal energy saving choice for existing fluorescent fixtures.

Perfect for a wide range of applications

- Full light output in spaces with temperatures down to -4°F (-20°C)
- Perfect for applications with frequent “on/off” switching cycles
- Buildings that desire to be mercury free

Easy to experience

- Compatible with a wide range of ballasts that include instant-start and programmed-start; select models are compatible with dimming ballasts¹
- Fits into existing linear fixtures
- Eliminates the need for rewiring and allows the fixture to maintain original UL and CSA compliance²

Energy savings

- 50% energy savings vs F32T8 electronic instant start systems³

Sustainable lighting solution

- No mercury allowing for non-hazardous waste disposal
- Emits virtually no UV rays or IR
- NSF Certified for use in food areas and refrigerated food displays
- 5-year limited warranty⁴

Footnotes on the page 3.

Philips InstantFit LED T8 Lamps

Ordering, Electrical and Technical Data (Subject to change without notice)

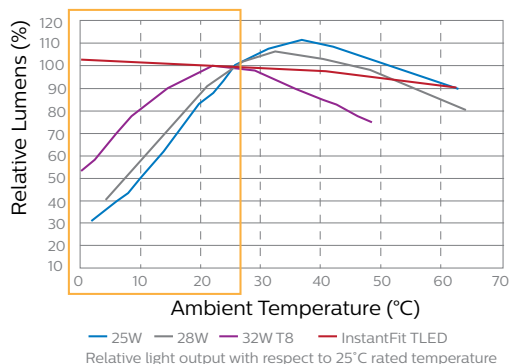
Grainger No.	Model No.	Ordering Code	Volts (Depending on Ballast)	Base	CRI	Color Temp. (K)	Pkg Qty	Rated Avg. Life ⁵	MOL (In.)	Beam Angle
LED InstantFit T8 - 4'										
49H098	9290011239	12T8/48-3000 IF 10/1	120-277, 347	G13	82	3000	10	50,000	48	160°
● 49H099	9290011240	12T8/48-3500 IF 10/1	120-277, 347	G13	82	3500	10	50,000	48	160°
● 49H101	9290011241	12T8/48-4000 IF 10/1	120-277, 347	G13	82	4000	10	50,000	48	160°
● 49H102	9290011242	12T8/48-5000 IF 10/1	120-277, 347	G13	82	5000	10	50,000	48	160°
LED InstantFit T8 - 4' Dimmable¹ High Output										
● 44ZA82	9290011585	15T8/48-3000 IF DIM 10/1	120-277, 347	G13	82	3000	10	50,000	48	160°
● 44ZA78	9290011586	15T8/48-3500 IF DIM 10/1	120-277, 347	G13	82	3500	10	50,000	48	160°
● 44ZA86	9290011587	15T8/48-4000 IF DIM 10/1	120-277, 347	G13	82	4000	10	50,000	48	160°
● 44ZA91	9290011588	15T8/48-5000 IF DIM 10/1	120-277, 347	G13	82	5000	10	50,000	48	160°
LED InstantFit T8 - 4' Ultra High Output										
● 48RE88	9290012267	16.5T8 LED/48-3500 IF 10/1 UHO	120-277, 347	G13	82	3500	10	70,000	48	160°
● 48RE89	9290012268	16.5T8 LED/48-4000 IF 10/1 UHO	120-277, 347	G13	82	4000	10	70,000	48	160°
● 48RE90	9290012269	16.5T8 LED/48-5000 IF 10/1 UHO	120-277, 347	G13	82	5000	10	70,000	48	160°
LED InstantFit T8 - 4' Glass										
40CP62	9290011511	17T8/48-4000 IFG 10/1	120-277, 347	G13	82	4000	10	36,000	48	240°
40CP61	9290011512	17T8/48-5000 IFG 10/1	120-277, 347	G13	82	5000	10	36,000	48	240°
LED InstantFit T8 - 3'										
32MX91	9290011183	10.5T8/36-3000 IF 10/1	120-277, 347	G13	82	3000	10	50,000	36	160°
32MX92	9290011184	10.5T8/36-3500 IF 10/1	120-277, 347	G13	82	3500	10	50,000	36	160°
32MX93	9290011185	10.5T8/36-4000 IF 10/1	120-277, 347	G13	82	4000	10	50,000	36	160°
32MX94	9290011186	10.5T8/36-5000 IF 10/1	120-277, 347	G13	82	5000	10	50,000	36	160°
LED InstantFit T8 - 2' High Output										
32MX87	9290011179	8.5T8/24-3000 IF 10/1	120-277, 347	G13	82	3000	10	50,000	24	160°
● 32MX88	9290011180	8.5T8/24-3500 IF 10/1	120-277, 347	G13	82	3500	10	50,000	24	160°
● 32MX89	9290011181	8.5T8/24-4000 IF 10/1	120-277, 347	G13	82	4000	10	50,000	24	160°
● 32MX90	9290011182	8.5T8/24-5000 IF 10/1	120-277, 347	G13	82	5000	10	50,000	24	160°
LED InstantFit T8 U-Bent - 6" High Output										
32MX79	9290011196	16.5T8/24-3000 IF-6U 10/1	120-277, 347	G13	82	3000	10	50,000	22.5	160°
32MX80	9290011197	16.5T8/24-3500 IF-6U 10/1	120-277, 347	G13	82	3500	10	50,000	22.5	160°
32MX81	9290011198	16.5T8/24-4000 IF-6U 10/1	120-277, 347	G13	82	4000	10	50,000	22.5	160°
32MX82	9290011199	16.5T8/24-5000 IF-6U 10/1	120-277, 347	G13	82	5000	10	50,000	22.5	160°
LED InstantFit 4-Pin long compact (PL-L) - 2' High Output										
44ZA61	9290011513	16.5PL-LED/24-3000 IF 10/1	120-277	2G11	82	3000	10	40,000	22.5	160°
44ZA62	9290011514	16.5PL-LED/24-3500 IF 10/1	120-277	2G11	82	3500	10	40,000	22.5	160°
44ZA53	9290011515	16.5PL-LED/24-4000 IF 10/1	120-277	2G11	82	4000	10	40,000	22.5	160°

Ballast Compatibility Guide

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

Relative Light Output vs. Ambient Temperature

4' T8 Lamps - 0.88 BF Ballast



Suitable for use in fixtures where ambient temperature is between -4°F (-20°C) and 113°F (45°C).

Warning: Philips LED T8 InstantFit lamps will only operate properly on compatible Instant-start and Programmed-start ballasts. Please refer to the Philips LED T8 InstantFit Installation Guide, which can be obtained through your local Philips Sales Representative, or visit www.philips.com/instantfit

FCC Note: This device complies with Part 18 of the FCC Rules.

Philips InstantFit LED T8 Lamps

Ordering, Electrical and Technical Data (Subject to change without notice)

Grainger No.	Bare Lamp Watts (W)	Average System Watts (W)			Initial Lumens ⁶		
		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)
LED InstantFit T8 - 4'							
49H098	12	12.5	14.5	18.5	1300	1500	1700
49H099	12	12.5	14.5	18.5	1300	1500	1800
49H101	12	12.5	14.5	18.5	1400	1600	1850
49H102	12	12.5	14.5	18.5	1450	1600	2000
LED InstantFit T8 - 4' Dimmable¹ High Output							
44ZA82	15	16	18	26.5	1800	2000	2700
44ZA78	15	16	18	26.5	1800	2000	2700
44ZA86	15	16	18	26.5	1900	2100	2800
44ZA91	15	16	18	26.5	1900	2100	2800
LED InstantFit T8 - 4' Ultra High Output							
48RE88	16.5	18	20	27	2200	2400	2950
48RE89	16.5	18	20	27	2250	2500	3050
48RE90	16.5	18	20	27	2250	2500	3050
LED InstantFit T8 - 4' Glass							
40CP62	17	18.0	20.0	26.5	1850	2100	2450
40CP61	17	18.0	20.0	26.5	1850	2100	2450
LED InstantFit T8 - 3'							
32MX91	10.5	12.5	13	17	1000	1100	1330
32MX92	10.5	12.5	13	17	1050	1160	1400
32MX93	10.5	12.5	13	17	1080	1200	1440
32MX94	10.5	12.5	13	17	1150	1270	1550
LED InstantFit T8 - 2' High Output							
32MX87	8.5	10	10.5	14.5	860	950	1110
32MX88	8.5	10	10.5	14.5	900	1040	1170
32MX89	8.5	10	10.5	14.5	930	1050	1200
32MX90	8.5	10	10.5	14.5	1000	1100	1290
LED InstantFit T8 U-Bent - 6" High Output							
32MX79	16.5	17.5	19	25.5	1800	2000	2700
32MX80	16.5	17.5	19	25.5	1800	2000	2700
32MX81	16.5	17.5	19	25.5	1900	2100	2800
32MX82	16.5	17.5	19	25.5	1950	2150	2900
LED InstantFit 4-Pin long compact (PL-L) - 2' High Output							
44ZA61	17	N/A	21	N/A	N/A	1900	N/A
44ZA62	17	N/A	21	N/A	N/A	2000	N/A
44ZA53	17	N/A	21	N/A	N/A	2100	N/A

System Power Compatibility Guide

This chart shows the measured system wattage of the Philips InstantFit TLED versus a comparable linear fluorescent lamp when used with the reference ballast.

	Reference Ballast	ICN-1P32-N	ICN-2P32-N	ICN-3P32-N	ICN-4P32-N
	Ballast Factor	0.88	0.88	0.88	0.88
	Number of Lamps	1	2	3	4
Specification	Lamp Type	System Power (W) [*]			
	F32T8	31	59	85	112
	InstantFit 12 W	12.5	27.5	40	58
	InstantFit 15 W	24	35.5	46	63

- Please refer to the InstantFit ballast compatibility guide @ www.philips.com/instantfit. 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.
- Must follow guidelines for installation from Philips Quick Installation Guide included with lamp shipment.
- (2) Lamp F32T8 Electronic Instant Start System with 0.88 Ballast Factor= 58 System Watts; (2) Philips LED T8 InstantFit =29 System Watts; 58 - 29 = 29 System Watts Saved; 29/58 = 50% Energy Saved.

- See limited warranty for terms and conditions at www.philips.com/warranties.
- Tested to B50 L70 requirements with a ballast whose ballast factor is ≤ 0.88 .
- Photometric testing consistent with IES LM-79.
- This lamp is DLC qualified.
- * Variance <10%

Philips InstantFit LED T8 Lamps

Shipping Data (Subject to change without notice)

Grainger No.	SKU UPC (0-46677)	Outer Bar Code (5-00-46677)	Case Qty.	Case Weight (lbs.)	Case Cube (cu. Ft.)	Pallet Qty	Lamps/SKU	SKUs per Layer	Layers High	SKU Dimensions (W x D x H) (In.)	Case Dimensions (W x D x H) (In.)	Pallet Dimensions (W x D x H) (In.)
LED InstantFit T8 - 4'												
49H098	45358-9	45358-4	10	9.7	.59	600	1	60	10	1.1 x 1.1 x 48.0	48.8 x 6.0 x 3.5	49.2 x 39.4 x 40.9
49H099	45359-6	45359-1	10	9.7	.59	600	1	60	10	1.1 x 1.1 x 48.0	48.8 x 6.0 x 3.5	49.2 x 39.4 x 40.9
49H101	45360-2	45360-7	10	9.7	.59	600	1	60	10	1.1 x 1.1 x 48.0	48.8 x 6.0 x 3.5	49.2 x 39.4 x 40.9
49H102	45361-9	45361-4	10	9.7	.59	600	1	60	10	1.1 x 1.1 x 48.0	48.8 x 6.0 x 3.5	49.2 x 39.4 x 40.9
LED InstantFit T8 - 4' Dimmable High Output												
44ZA82	45689-4	45689-9	10	9.7	.59	600	1	60	10	1.1 x 1.1 x 48.0	48.8 x 6.0 x 3.5	49.2 x 39.4 x 40.9
44ZA78	45690-0	45690-5	10	9.7	.59	600	1	60	10	1.1 x 1.1 x 48.0	48.8 x 6.0 x 3.5	49.2 x 39.4 x 40.9
44ZA86	45691-7	45691-2	10	9.7	.59	600	1	60	10	1.1 x 1.1 x 48.0	48.8 x 6.0 x 3.5	49.2 x 39.4 x 40.9
44ZA91	45692-4	45692-9	10	9.7	.59	600	1	60	10	1.1 x 1.1 x 48.0	48.8 x 6.0 x 3.5	49.2 x 39.4 x 40.9
LED InstantFit T8 - 4' Ultra High Output												
48RE88	46313-7	46313-2	10	9.7	.59	600	1	60	10	1.1 x 1.1 x 48.0	48.8 x 6.0 x 3.5	49.2 x 39.4 x 40.9
48RE89	46314-4	46314-9	10	9.7	.59	600	1	60	10	1.1 x 1.1 x 48.0	48.8 x 6.0 x 3.5	49.2 x 39.4 x 40.9
48RE90	46315-1	46315-6	10	9.7	.59	600	1	60	10	1.1 x 1.1 x 48.0	48.8 x 6.0 x 3.5	49.2 x 39.4 x 40.9
LED InstantFit T8 - 4' Glass												
40CP62	45656-6	45656-1	10	9.7	1.06	360	1	40	10	1.1 x 1.1 x 48.0	49.8 x 8.8 x 4.2	51.2 x 39.4 x 43.4
40CP61	45657-3	45657-8	10	9.7	1.06	360	1	40	10	1.1 x 1.1 x 48.0	49.8 x 8.8 x 4.2	51.2 x 39.4 x 43.4
LED InstantFit T8 - 3'												
32MX91	45205-6	45205-1	10	5.1	.43	800	1	80	10	1.1 x 1.1 x 36.0	38.0 x 6.0 x 3.4	50.6 x 39.4 x 39.6
32MX92	45206-3	45206-8	10	5.1	.43	800	1	80	10	1.1 x 1.1 x 36.0	38.0 x 6.0 x 3.4	50.6 x 39.4 x 39.6
32MX93	45207-0	45207-5	10	5.1	.43	800	1	80	10	1.1 x 1.1 x 36.0	38.0 x 6.0 x 3.4	50.6 x 39.4 x 39.6
32MX94	45208-7	45208-2	10	5.1	.43	800	1	80	10	1.1 x 1.1 x 36.0	38.0 x 6.0 x 3.4	50.6 x 39.4 x 39.6
LED InstantFit T8 - 2' High Output												
32MX87	45201-8	45201-3	10	4.63	.31	1200	1	120	10	1.1 x 1.1 x 24.0	26.2 x 6.0 x 3.4	50.6 x 39.4 x 39.6
32MX88	45202-5	45202-0	10	4.63	.31	1200	1	120	10	1.1 x 1.1 x 24.0	26.2 x 6.0 x 3.4	50.6 x 39.4 x 39.6
32MX89	45203-2	45203-7	10	4.63	.31	1200	1	120	10	1.1 x 1.1 x 24.0	26.2 x 6.0 x 3.4	50.6 x 39.4 x 39.6
32MX90	45204-9	45204-4	10	4.63	.31	1200	1	120	10	1.1 x 1.1 x 24.0	26.2 x 6.0 x 3.4	50.6 x 39.4 x 39.6
LED InstantFit T8 U-Bent - 6" High Output												
32MX79	45266-7	45266-2	10	8.2	1.19	300	1	100	3	1.1 x 7.2 x 23.0	23.1 x 7.5 x 11.9	47.2 x 39.4 x 41.4
32MX80	45267-4	45267-9	10	8.2	1.19	300	1	100	3	1.1 x 7.2 x 23.0	23.1 x 7.5 x 11.9	47.2 x 39.4 x 41.4
32MX81	45268-1	45268-6	10	8.2	1.19	300	1	100	3	1.1 x 7.2 x 23.0	23.1 x 7.5 x 11.9	47.2 x 39.4 x 41.4
32MX82	45269-8	45269-3	10	8.2	1.19	300	1	100	3	1.1 x 7.2 x 23.0	23.1 x 7.5 x 11.9	47.2 x 39.4 x 41.4
LED InstantFit 4-Pin long compact (PL-L) - 2' High Output												
44ZA61	45663-4	45663-9	10	4.65	0.29	1200	1	150	8	23.3 x 0.5 x 4.3	23.3 x 5.0 x 4.3	47.3 x 39.4 x 40.2
44ZA62	45664-1	45664-6	10	4.65	0.29	1200	1	150	8	23.3 x 0.5 x 4.3	23.3 x 5.0 x 4.3	47.3 x 39.4 x 40.2
44ZA53	45665-8	45665-3	10	4.65	0.29	1200	1	150	8	23.3 x 0.5 x 4.3	23.3 x 5.0 x 4.3	47.3 x 39.4 x 40.2

For more information, contact your Grainger Representative or visit www.grainger.com



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