

PHILIPS

Lighting
Solutions



Lighting Solutions for Education

Sustainable solutions from Philips can reduce energy consumption, deliver a return on your investment and improve your carbon footprint.

AVAILABLE THROUGH

GRAINGER

FOR THE ONES WHO GET IT DONE

Easily upgrade to LED from fluorescent.

Philips InstantFit LED T8 and 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 4.

Philips InstantFit LED T8 Lamps

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

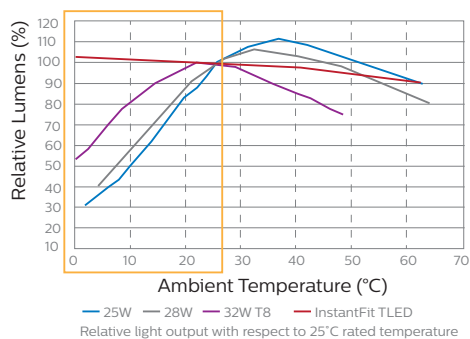
Grainger No.	Model No.	Ordering Code	Volts (Depending on Ballast)	Base	CRI	Color Temp. (K)	Pkg Qty	Rated Avg. Life ⁵	MOL (In.)	Beam Angle
LED InstantFit T8 - 4'										
49H098	9290011239	12T8/48-3000 IF 10/1	120-277, 347	G13	82	3000	10	50,000	48	160
49H099	9290011240	12T8/48-3500 IF 10/1	120-277, 347	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										
32MX83	9290011585	15T8/48-3000 IF DIM 10/1	120-277, 347	G13	82	3000	10	50,000	48	160
32MX84	9290011586	15T8/48-3500 IF DIM 10/1	120-277, 347	G13	82	3500	10	50,000	48	160
32MX85	9290011587	15T8/48-4000 IF DIM 10/1	120-277, 347	G13	82	4000	10	50,000	48	160
32MX86	9290011588	15T8/48-5000 IF DIM 10/1	120-277, 347	G13	82	5000	10	50,000	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	16.5T8/22.5-3000 IF-6U 10/1	120-277, 347	G13	82	3000	10	50,000	22.5	160
32MX80	9290011197	16.5T8/22.5-3500 IF-6U 10/1	120-277, 347	G13	82	3500	10	50,000	22.5	160
32MX81	9290011198	16.5T8/22.5-4000 IF-6U 10/1	120-277, 347	G13	82	4000	10	50,000	22.5	160
32MX82	9290011199	16.5T8/22.5-5000 IF-6U 10/1	120-277, 347	G13	82	5000	10	50,000	22.5	160
LED InstantFit 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)

Product 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	1650	2000
LED InstantFit T8 - 4' Dimmable¹ High Output							
32MX83	15	16	18	26.5	1800	2000	2700
32MX84	15	16	18	26.5	1800	2000	2700
32MX85	15	16	18	26.5	1900	2100	2800
32MX86	15	16	18	26.5	1900	2100	2800
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 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

- 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 warranty for terms and conditions at www.philips.com/warranties
- Tested to B50 L70 requirement.
- Photometric testing consistent with IES LM-79.
● This lamp is DLC qualified.

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

* Variance <10%

Optanium® and Centium™ ballasts

These ballasts can deliver significant energy savings while still providing the desired or required light output.



Grainger Item No. 5PTN4



Grainger Item No. 3VK03



Grainger Item No. 1FYE5

The right ballast for your job

Long-lasting and low maintenance, LED-based light sources are an excellent solution for education applications. For optimal performance, these solutions require reliable drivers matching the long lifetime of the LEDs. The Philips Advance ballast portfolio offers a range of products specially designed to operate LED solutions that meet your customer's specific needs.

Philips Advance Solutions for Classrooms, Conference Rooms, and Common Areas

Grainger No.	Philips No.	Ballast Family	Start Type	Light Output	Number of Lamps	Voltage
5PTN4	IOPA-2P32-N	Optanium® Electronic	Instant	Normal	1 or 2 F32T8 or F32T8/ES	120-277
36N040	IOPA-4P32-N	Optanium® Electronic	Instant	Normal	3 or 4 F32T8 or F32T8/ES	120-277
5KNJ2	IOP-3PSP32-SC	Optanium® Electronic	Programmed	Normal	2 or 3 F32T8 or F32T8/ES	120-277
5KNJ3	IOP-4PSP32-SC	Optanium® Electronic	Programmed	Normal	3 or 4 F32T8 or F32T8/ES	120-277
2MCX5	ICN-2P32-N	Centium™ Electronic	Instant	Normal	1 or 2 F32T8 or F32T8/ES	120-277
1VN22	ICN-4P32-N	Centium™ Electronic	Instant	Normal	3 or 4 F32T8 or F32T8/ES	120-277



Philips Advance Solutions for Gymnasiums, Storage Areas, and Outdoor Applications including Parking Lots

Grainger No.	Philips No.	Ballast Family	Start Type	Number of Lamps	Voltage
1FYG1	71A5492-001D	Metal Halide Core & Coil Pulse	Pulse	150W M102/M142	120/208/ 240/277
1FYG2	71A5750-001D	Metal Halide Core & Coil Pulse	Probe	250W M58	120/208/ 240/277/480
1FYG3	71A6051-001D	Metal Halide Core & Coil Pulse	Probe	400W M59	120/208/ 240/277/480



Philips is positioned to shape the market, offering solutions across the complete digital lighting value chain. Each Philips brand offers a simplified solutions-focused approach to provide best-in-class in each product category. Philips solutions provide the lighting needed for your education facilities.

Philips LED Lamps

- 100+ SKUs including InstantFit T8 Lamps, A-Lamps, BR, Candles, MRX, PARs, and LED Retrofit Kits

Philips Advance Ballasts

- 250+ SKUs including Electronic, Dimming, CFL, HID, Sign, and LED Drivers

Philips Bodine

- Emergency ballasts

340+ SKUs of Luminaires (Fixtures) including these industry leading brands:

Philips Day-Brite

- Indoor Commercial and Industrial

Philips Chloride

- Exit & Emergency Lighting

Philips Lightolier

- Indoor Downlighting, Track and Decorative Lighting

Philips Stonco

- Outdoor General Purpose Lighting

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





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