PHILIPS

LED

InstantFit T8

Visual Light Communication (VLC)

Indoor positioning

Philips now introduces InstantFit LED T8 VLC lamps – retrofit LED lamps that are ready for Philips Indoor Positioning System. Lamps are designed to deliver high-quality light and light up the store with significant energy savings compared to fluorescent lamps. Product features the patented Philips Visible Light Communications (VLC) technology, and automatically sends out a unique code to enable location-based services, without adding any additional hardware in the future!

Visible Light Communications
- Compatible with Philips Indoor Positioning system.
- VLC signal can be adjusted with IR remote control
- Infrared detection range 6m (19.7ft)

Compatibility
- Innovative driver design, compatible with verified electronic ballast and LED driver
- Quick and easy installation
- Works with many fixture types[1]

Reliability
- Reliable operation between -20°C and +45°C ambient temperature
- Rated for 70,000 hrs2 (B50L70) while using normal BF ballast
- 50,000 switching cycles
- Nominal code detection range 18ft (6m)

User Comfort
- CRI 82
- Advanced optical design that ensures uniform light output and superior optical efficiency

Energy Savings
- Energy savings of 50% or more compared to F32T8[2]
- DLC listed

Safety
- Over voltage and over temperature protection
- Complies with UL safety requirement

Philips InstantFit LED lamps

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

Product Number	Model Number(s)	DLC Product ID	Ordering Code	Volts (Depending on Ballast)	Base	CRI	Color Temp.(K)[3]	Pkg Qty	LED Lifetime [4,5]	MOL (In.)
52998-1	9290018701	Pending	14T8/48-835/IF20/VLC 10/1	120-277, 347	G13	82	3500	10	70,000	48
52999-9	9290018702	Pending	14T8/48-840/IF21/VLC 10/1	120-277, 347	G13	82	4000	10	70,000	48

Ballast technical data (Subject to change without notice)

Product No.	Bare Lamp Watts (W)	Average System Watts (W)			Initial Lumens		
		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)
52998-1	14	15	17	23	1800	2100	2400
52999-9	14	15	17	23	1800	2100	2400

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

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

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	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.)
52998-1	52998-7	52998-2	10	9.7	0.60	550	1	50	11	48.0 x 1.1 x 1.1	49.5 x 7.1 x 3.9	50.6 x 39.4 x 48.3
52999-9	52999-4	52999-9	10	9.7	0.60	550	1	50	11	48.0 x 1.1 x 1.1	49.5 x 7.1 x 3.9	50.6 x 39.4 x 48.3

1. Fixture must be tested to verify operation with the VLC system.
2. Savings based on comparison to F32T8 electronic instant start systems.
3. Photometric testing consistent with IES LM-79.
4. Tested to B50 L70 requirement.

5. 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).
6. Product is not dimmable.
7. Modifications to the product void the warranty.

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