



# Extra low mercury

## T8 Standard

Philips T8 lamps are energy-efficient lighting solutions.

### Benefits

- Better for the environment - only 1.7mg of mercury per lamp with ALTO II Technology
- Reduce maintenance costs by extending the relamping cycle

### Features

- 95% lumen maintenance and reduced lamp-end blackening
- Available in multiple wattages: 17W, 25W and 32W
- Available in multiple color temperatures: 3000K, 3500K, 4100K, and 5000K

### Application

- Ideal for applications requiring maximum maintained light output.

### Warnings and Safety

- Lamp contains mercury.
- Manage in Accord with Disposal Laws.
- See: [www.lamprecycle.org](http://www.lamprecycle.org) or 1-800-555-0050

# T8 Standard

## Versions

Medium Bi-Pin Fluorescent T-8  
(T8) Coated glass



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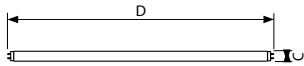
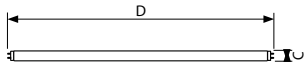


G13, T8



G13, T8

## Dimensional drawing



Product
F17T8/TL835/ALTO 30PK
F17T8/TL841/ALTO 30PK
F17T8/TL850 ALTO 30PK
F25T8/TL835/ALTO 30PK
F25T8/TL841/ALTO 30PK
F25T8/TL850 ALTO 30PK
F30T8/CW ALTO 30PK

Product	C (max)	D (max)
F32T8/TL841/ALTO 30PK	47-13/16 in	1-1/8 in
F32T8/TL830/ALTO 30PK	47-13/16 in	1-1/8 in
F32T8/TL835/ALTO 30PK	47-13/16 in	1-1/8 in
F32T8/TL850/ALTO 30PK	47-13/16 in	1-1/8 in
F32T8/TL865/ALTO 30PK	47-13/16 in	1-1/8 in

General information	
Cap-Base	G13
Mechanical and housing	
Bulb Shape	T8

## Approval and application

## T8 Standard

Order Code	Full Product Name	Energy Consumption kWh/		Mercury (Hg) Content		
		1000 h	Energy Saving Product (Max)	Mercury (Hg) Content (Nom)	Picogram Per Lumen Hour	
582049	F32T8/TL830/ALTO 30PK	32.6 kWh	Energy Saving	1.7 mg	1.7 mg	-
582056	F32T8/TL835/ALTO 30PK	32.6 kWh	Energy Saving	1.7 mg	1.7 mg	-
582064	F32T8/TL841/ALTO 30PK	32.6 kWh	Energy Saving	1.7 mg	1.7 mg	-
582072	F32T8/TL850/ALTO 30PK	32.6 kWh	Energy Saving	1.7 mg	1.7 mg	-
582080	F32T8/TL865/ALTO 30PK	32.6 kWh	Energy Saving	1.7 mg	1.7 mg	-
571034	F30T8/CW ALTO 30PK	-	-	1.9 mg	1.5 mg	-
281881	F17T8/TL835/ALTO 30PK	-	Energy Saving	-	1.7 mg	54 pg/lm.h
281899	F17T8/TL841/ALTO 30PK	-	Energy Saving	-	1.7 mg	54 pg/lm.h
281907	F25T8/TL835/ALTO 30PK	-	Energy Saving	-	1.7 mg	35 pg/lm.h
281915	F25T8/TL841/ALTO 30PK	-	Energy Saving	-	1.7 mg	35 pg/lm.h
280925	F25T8/TL850 ALTO 30PK	-	Energy Saving	-	1.7 mg	36 pg/lm.h
280909	F17T8/TL850 ALTO 30PK	-	Energy Saving	-	1.7 mg	54 pg/lm.h

### Controls and dimming

Order Code	Full Product Name	Dimmable	Order Code	Full Product Name	Dimmable
582049	F32T8/TL830/ALTO 30PK	Yes	281881	F17T8/TL835/ALTO 30PK	-
582056	F32T8/TL835/ALTO 30PK	Yes	281899	F17T8/TL841/ALTO 30PK	-
582064	F32T8/TL841/ALTO 30PK	Yes	281907	F25T8/TL835/ALTO 30PK	-
582072	F32T8/TL850/ALTO 30PK	Yes	281915	F25T8/TL841/ALTO 30PK	-
582080	F32T8/TL865/ALTO 30PK	Yes	280925	F25T8/TL850 ALTO 30PK	-
571034	F30T8/CW ALTO 30PK	-	280909	F17T8/TL850 ALTO 30PK	-

### Operating and electrical

Order Code	Full Product Name	Lamp				Order Code	Full Product Name	Lamp			
		Current (Nom)	Voltage (Nom)	Wattage Equivalent	Power (Nom)			Current (Nom)	Voltage (Nom)	Wattage Equivalent	Power (Nom)
582049	F32T8/TL830/ALTO 30PK	265 mA	137 V	32 W	32.5 W	281881	F17T8/TL835/ALTO 30PK	-	-	-	17 W
582056	F32T8/TL835/ALTO 30PK	265 mA	137 V	32 W	32.5 W	281899	F17T8/TL841/ALTO 30PK	-	-	-	17 W
582064	F32T8/TL841/ALTO 30PK	265 mA	137 V	32 W	32.5 W	281907	F25T8/TL835/ALTO 30PK	-	-	-	25 W
582072	F32T8/TL850/ALTO 30PK	265 mA	137 V	32 W	32.5 W	281915	F25T8/TL841/ALTO 30PK	-	-	-	25 W
582080	F32T8/TL865/ALTO 30PK	265 mA	137 V	32 W	32.5 W	280925	F25T8/TL850 ALTO 30PK	-	-	-	25 W
571034	F30T8/CW ALTO 30PK	355 A	99 V	-	30.5 W	280909	F17T8/TL850 ALTO 30PK	-	-	-	17 W

### General information

Order Code	Full Product Name	Life To 50%		Life 12-Hr		Life 3-Hr Instant Start [Hrs]	Life 3-Hr Program Start [Hrs]	Main Application
		Failures Preheat (Nom)	Life To 50% Failures (Nom)	Instant Start [Hrs]	Life 12-Hr Programstart [Hrs]			
582049	F32T8/TL830/ALTO 30PK	30000 h	24000 h	-	-	-	-	General Lighting (G)
582056	F32T8/TL835/ALTO 30PK	30000 h	24000 h	-	-	-	-	General Lighting (G)
582064	F32T8/TL841/ALTO 30PK	30000 h	24000 h	-	-	-	-	General Lighting (G)
582072	F32T8/TL850/ALTO 30PK	30000 h	24000 h	-	-	-	-	General Lighting (G)

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Order Code	Full Product Name	Life To 50%		Life 12-Hr		Life 3-Hr Instant Start [Hrs]	Life 3-Hr Program Start [Hrs]	Main Application
		Failures Preheat (Nom)	Life To 50% Failures (Nom)	Instant Start [Hrs]	Life 12-Hr Programstart [Hrs]			
582080	F32T8/TL865/ALTO 30PK	30000 h	24000 h	-	-	-	-	General Lighting (G)
571034	F30T8/CW ALTO 30PK	-	-	-	-	-	-	-
281881	F17T8/TL835/ALTO 30PK	-	-	30000 h	36000 h	24000 h	30000 h	-
281899	F17T8/TL841/ALTO 30PK	-	-	30000 h	36000 h	24000 h	30000 h	-
281907	F25T8/TL835/ALTO 30PK	-	-	30000 h	36000 h	24000 h	30000 h	-
281915	F25T8/TL841/ALTO 30PK	-	-	30000 h	36000 h	24000 h	30000 h	-
280925	F25T8/TL850 ALTO 30PK	-	-	30000 h	36000 h	24000 h	30000 h	-
280909	F17T8/TL850 ALTO 30PK	-	-	30000 h	36000 h	24000 h	30000 h	-

### Light technical (1/2)

Order Code	Full Product Name	Beam Angle (Nom)	Chromaticity		Correlated Color		Color Rendering Index (Nom)	
			Coordinate X (Nom)	Coordinate Y (Nom)	Color Code	Color Designation		Temperature (Nom)
582049	F32T8/TL830/ALTO 30PK	0°	443	408	830	TL830	3000 K	≥80
582056	F32T8/TL835/ALTO 30PK	0°	412	400	835	TL835	3500 K	≥80
582064	F32T8/TL841/ALTO 30PK	0°	383	385	841	TL841	4100 K	≥80
582072	F32T8/TL850/ALTO 30PK	0°	347	362	850	TL850	5000 K	≥80
582080	F32T8/TL865/ALTO 30PK	0°	313	338	865	TL865	6500 K	≥80
571034	F30T8/CW ALTO 30PK	-	-	-	TL841	Cool White (CW)	4100 K	>60
281881	F17T8/TL835/ALTO 30PK	-	-	-	TL835	TL835	3500 K	85
281899	F17T8/TL841/ALTO 30PK	-	-	-	TL841	TL841	4100 K	85
281907	F25T8/TL835/ALTO 30PK	-	-	-	TL835	TL835	3500 K	85
281915	F25T8/TL841/ALTO 30PK	-	-	-	TL841	TL841	4100 K	85
280925	F25T8/TL850 ALTO 30PK	-	-	-	TL850	TL850	5000 K	82
280909	F17T8/TL850 ALTO 30PK	-	-	-	TL850	TL850	5000 K	82

### Light technical (2/2)

Order Code	Full Product Name	Lumen				Luminous Flux (Rated) (Nom)	Order Code	Full Product Name	Lumen				Luminous Flux (Rated) (Nom)
		Maintenance 10000 h (Nom)	Maintenance 2000 h (Nom)	Design Mean Lumens	Luminous Flux (Nom)				Maintenance 10000 h (Nom)	Maintenance 2000 h (Nom)	Design Mean Lumens	Luminous Flux (Nom)	
582049	F32T8/TL830/ALTO 30PK	95 %	98 %	-	-	2975 lm	582080	F32T8/TL865/ALTO 30PK	95 %	98 %	-	-	2600 lm
582056	F32T8/TL835/ALTO 30PK	95 %	98 %	-	-	2975 lm	571034	F30T8/CW ALTO 30PK	-	-	-	-	2200 lm
582064	F32T8/TL841/ALTO 30PK	95 %	98 %	-	-	2975 lm	281881	F17T8/TL835/ALTO 30PK	-	-	1310 lm	1375 lm	-
582072	F32T8/TL850/ALTO 30PK	95 %	98 %	-	-	2600 lm	281899	F17T8/TL841/ALTO 30PK	-	-	1310 lm	1375 lm	-
							281907	F25T8/TL835/ALTO 30PK	-	-	2045 lm	2150 lm	-

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Order Code	Full Product Name	Lumen		Design Mean Lumens	Luminous Flux (Nom)	Luminous Flux (Rated)
		Maintenance 10000 h (Nom)	Lumen Maintenance 2000 h (Nom)			
	ALTO 30PK					
281915	F25T8/TL841/ALTO 30PK	-	-	2045 lm	2150 lm	-
280925	F25T8/TL850	-	-	1995 lm	2100 lm	-

Order Code	Full Product Name	Lumen		Design Mean Lumens	Luminous Flux (Nom)	Luminous Flux (Rated)
		Maintenance 10000 h (Nom)	Lumen Maintenance 2000 h (Nom)			
	ALTO 30PK					
280909	F17T8/TL850/ALTO 30PK	-	-	1235 lm	1300 lm	-

### Mechanical and housing

Order Code	Full Product Name	Bulb Finish
582049	F32T8/TL830/ALTO 30PK	Coated glass
582056	F32T8/TL835/ALTO 30PK	Coated glass
582064	F32T8/TL841/ALTO 30PK	Coated glass
582072	F32T8/TL850/ALTO 30PK	Coated glass
582080	F32T8/TL865/ALTO 30PK	Coated glass
571034	F30T8/CW ALTO 30PK	Coated glass

Order Code	Full Product Name	Bulb Finish
281881	F17T8/TL835/ALTO 30PK	-
281899	F17T8/TL841/ALTO 30PK	-
281907	F25T8/TL835/ALTO 30PK	-
281915	F25T8/TL841/ALTO 30PK	-
280925	F25T8/TL850 ALTO 30PK	-
280909	F17T8/TL850 ALTO 30PK	-

### Temperature

Order Code	Full Product Name	Design Temperature (Nom)
582049	F32T8/TL830/ALTO 30PK	77 °F
582056	F32T8/TL835/ALTO 30PK	77 °F
582064	F32T8/TL841/ALTO 30PK	77 °F
582072	F32T8/TL850/ALTO 30PK	77 °F
582080	F32T8/TL865/ALTO 30PK	77 °F
571034	F30T8/CW ALTO 30PK	-

Order Code	Full Product Name	Design Temperature (Nom)
281881	F17T8/TL835/ALTO 30PK	-
281899	F17T8/TL841/ALTO 30PK	-
281907	F25T8/TL835/ALTO 30PK	-
281915	F25T8/TL841/ALTO 30PK	-
280925	F25T8/TL850 ALTO 30PK	-
280909	F17T8/TL850 ALTO 30PK	-

