A new generation for Linear LED T8 lighting.

LED InstantFit Lamps

Philips LED T8 InstantFit Lamps are an ideal energy saving choice for existing linear fluorescent fixtures.

Benefits

- 50% energy savings vs F32T8 electronic instant start systems.
- No mercury allowing for non-hazardous waste disposal.
- Emits virtually no UV rays or IR.
- Some models are glass-free for safer working conditions.
- 5 year limited warranty (see www.philips.com/warranties for terms and conditions).
- 2 F32T8 lamps operating on an electronic Instant Start system with a 0.88 Ballast Factor consumes 58 system watts.
- 2 12W Philips LED T8 InstantFit lamps operating on an electronic Instant Start system with a 0.88 Ballast Factor consumes 29 system watts. The system watts saved is 58 - 29 = 29 which equates to 50% energy savings.

Features

- Instant on, no flicker or buzz.
- Fits into existing fluorescent fixtures.
- Compatible with Instant Start, Programmed Start, Dimmable, and Emergency ballasts eliminating the need for rewiring. This allows the fixture to maintain its original UL compliance.
- Must follow guidelines for installation from Philips Installation Guide included with lamp shipment.

LED InstantFit Lamps

Application

- Full light output in spaces with temperatures down to -22˚F (-30˚C)
- Perfect for applications with frequent “on/off” switching cycles
- Buildings that desire to be mercury free

Versions

Medium Bi-Pin Fluorescent

Medium Bi-Pin Fluorescent

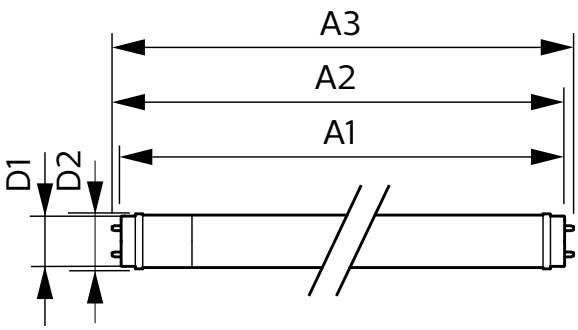
G5

FA8

R17d (RDC)

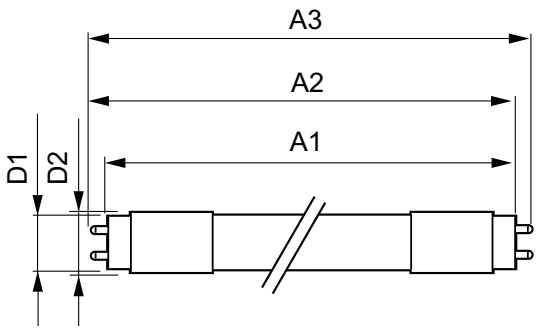
Medium Bi-Pin Fluorescent

Dimensional drawing

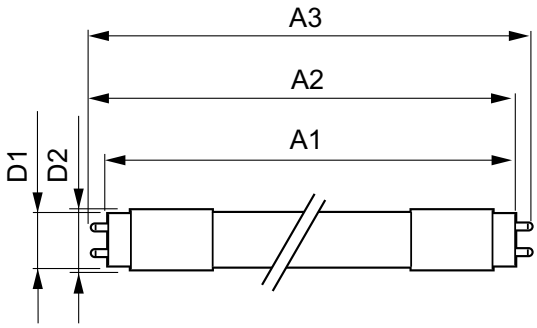


Product	D1	D2	A1	A2	A3
16T8/LED/48-840/IF18/G 25/1	25.7 mm	28 mm	1198 mm	1205 mm	1212 mm
16T8/LED/48-850/IF18/G 25/1	25.7 mm	28 mm	1198 mm	1205 mm	1212 mm

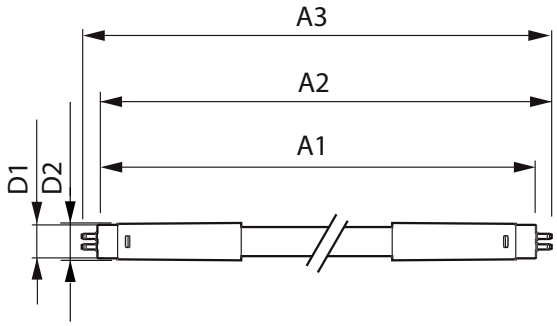
Dimensional drawing



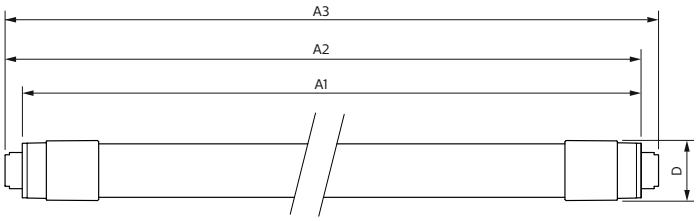
Product	D1	D2	A1	A2	A3
16T8/LED/48-850/UF18/G 10/1	25.7 mm	28 mm	1198 mm	1205 mm	1212 mm
16T8/LED/48-840/UF18/G 10/1	25.7 mm	28 mm	1198 mm	1205 mm	1212 mm



Product	D1	D2	A1	A2	A3
15.5T8/MAS/48-850/ IF25/P 25/1	25.7 mm	28 mm	1198.1 mm	1205.2 mm	1212.3 mm
15.5T8/MAS/48-835/IF24/P 25/1	25.7 mm	28 mm	1198.1 mm	1205.2 mm	1212.3 mm
15.5T8/MAS/48-840/ IF25/P 25/1	25.7 mm	28 mm	1198.1 mm	1205.2 mm	1212.3 mm
15.5T8/MAS/48-830/ IF23/P 25/1	25.7 mm	28 mm	1198.1 mm	1205.2 mm	1212.3 mm



Product	D1	D2	A1	A2	A3
25T5HO/COR/46-835/ MF33/G 25/1	15.3 mm	18.6 mm	1147.8 mm	1154.9 mm	1162 mm
25T5HO/COR/46-840/ MF35/G 25/1	15.3 mm	18.6 mm	1147.8 mm	1154.9 mm	1162 mm
25T5HO/COR/46-850/ MF35/G 25/1	15.3 mm	18.6 mm	1147.8 mm	1154.9 mm	1162 mm



Product	D1	D2	A1	A2	A3
44T8HO/COR/96-840/ MF54/G/R17d 10/1	28 mm	27.8 mm	2369.8 mm	2378.7 mm	2387.8 mm
44T8HO/COR/96-850/ MF54/G/R17d 10/1	28 mm	27.8 mm	2369.8 mm	2378.7 mm	2387.8 mm

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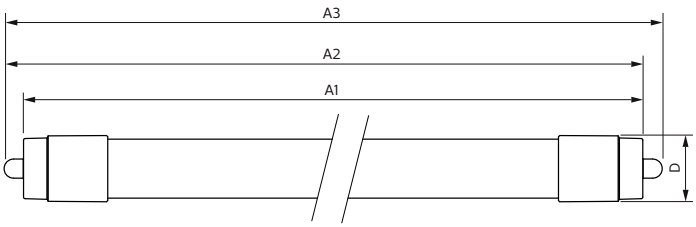
Dimensional drawing



Product	D1	D2	A1	A2	A3
34T8/COR/96-850/ MF42/G/FA8 10/1	28 mm	27.9 mm	2369.8 mm	2378.7 mm	2387.8 mm
34T8/COR/96-840/ MF42/G/FA8 10/1	28 mm	27.9 mm	2369.8 mm	2378.7 mm	2387.8 mm

Controls and Dimming	
Dimmable	No
General Information	
Switching Cycle	50000X
Light Technical	
Llmf At End Of Nominal Lifetime (Nom)	70 %
Temperature	
T-Ambient (Min)	-20 °C
T-Storage (Max)	65 °C
T-Storage (Min)	-40 °C

Operating and Electrical

Order Code	Full Product Name	Input Frequency	Voltage (Nom)	Power (Rated) (Nom)	Starting Time (Nom)
542084	16T8/LED/48-840/ IF18/G 25/1	20K to 120K Hz	120-277, 347 V	16 W	0.5 s
542092	16T8/LED/48-850/ IF18/G 25/1	20K to 120K Hz	120-277, 347 V	16 W	0.5 s
539972	16T8/LED/48-840/ UF18/G 10/1	50-120000 Hz	40-330 V	16 W	0.5 s
539980	16T8/LED/48-850/ UF18/G 10/1	50-120000 Hz	40-330 V	16 W	0.5 s
542050	25T5HO/COR/ 46-835/MF33/G 25/1	50 to 60 Hz	120-277 V	25 W	0.45 s
542068	25T5HO/COR/ 46-840/MF35/G 25/1	50 to 60 Hz	120-277 V	25 W	0.45 s
542076	25T5HO/COR/ 46-850/MF35/G 25/1	50 to 60 Hz	120-277 V	25 W	0.45 s

Order Code	Full Product Name	Input Frequency	Voltage (Nom)	Power (Rated) (Nom)	Starting Time (Nom)
545269	34T8/COR/ 96-840/ MF42/G/FA8 10/1	50 to 60 Hz	120-277 V	34 W	0.5 s
545277	34T8/COR/ 96-850/ MF42/G/FA8 10/1	50 to 60 Hz	120-277 V	34 W	0.5 s
545285	44T8HO/COR/ 96-840/MF54/G/ R17d 10/1	50 to 60 Hz	120-277 V	44 W	0.5 s
545293	44T8HO/COR/ 96-850/MF54/G/ R17d 10/1	50 to 60 Hz	120-277 V	44 W	0.5 s
545178	15.5T8/MAS/ 48-830/IF23/P 25/1	50 to 60 Hz	120-277 V	15.5 W	0.5 s
533372	15.5T8/MAS/ 48-835/IF24/P 25/1	50 to 60 Hz	120-277 V	15.5 W	0.5 s

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Order Code	Full Product Name	Input Frequency	Voltage (Nom)	Power (Rated) (Nom)	Starting Time (Nom)
545194	15.5T8/MAS/48-840/IF25/P 25/1	50 to 60 Hz	120-277 V	15.5 W	0.5 s

Order Code	Full Product Name	Input Frequency	Voltage (Nom)	Power (Rated) (Nom)	Starting Time (Nom)
545200	15.5T8/MAS/48-850/IF25/P 25/1	50 to 60 Hz	120-277 V	15.5 W	0.5 s

General Information

Order Code	Full Product Name	Cap-Base	Nominal Lifetime (Nom)	Rated Lifetime (Hours)
542084	16T8/LED/48-840/IF18/G 25/1	G13	36000 h	36000 h
542092	16T8/LED/48-850/IF18/G 25/1	G13	36000 h	36000 h
539972	16T8/LED/48-840/UF18/G 10/1	G13	36000 h	36000 h
539980	16T8/LED/48-850/UF18/G 10/1	G13	36000 h	36000 h
542050	25T5HO/COR/46-835/MF33/G 25/1	G5	50000 h	50000 h
542068	25T5HO/COR/46-840/MF35/G 25/1	G5	50000 h	50000 h
542076	25T5HO/COR/46-850/MF35/G 25/1	G5	50000 h	50000 h
545269	34T8/COR/96-840/MF42/G/FA8 10/1	FA8	50000 h	50000 h

Order Code	Full Product Name	Cap-Base	Nominal Lifetime (Nom)	Rated Lifetime (Hours)
545277	34T8/COR/96-850/MF42/G/FA8 10/1	FA8	50000 h	50000 h
545285	44T8HO/COR/96-840/MF54/G/R17d 10/1	R17D	50000 h	50000 h
545293	44T8HO/COR/96-850/MF54/G/R17d 10/1	R17D	50000 h	50000 h
545178	15.5T8/MAS/48-830/IF23/P 25/1	G13	70000 h	70000 h
533372	15.5T8/MAS/48-835/IF24/P 25/1	G13	70000 h	70000 h
545194	15.5T8/MAS/48-840/IF25/P 25/1	G13	70000 h	70000 h
545200	15.5T8/MAS/48-850/IF25/P 25/1	G13	70000 h	70000 h

Light Technical

Order Code	Full Product Name	Beam Angle (Nom)	Color Code	Correlated Color Temperature (Nom)	Color Rendering Index (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)	Rated Beam Angle
542084	16T8/LED/48-840/IF18/G 25/1	-	841	4000 K	80	1800 lm	1800 lm	-
542092	16T8/LED/48-850/IF18/G 25/1	-	850	5000 K	80	1800 lm	1800 lm	-
539972	16T8/LED/48-840/UF18/G 10/1	240 °	841	4000 K	80	1800 lm	1800 lm	240 °
539980	16T8/LED/48-850/UF18/G 10/1	240 °	850	5000 K	80	1800 lm	1800 lm	240 °
542050	25T5HO/COR/46-835/MF33/G 25/1	200 °	835	3500 K	80	3300 lm	3300 lm	200 °
542068	25T5HO/COR/46-840/MF35/G 25/1	200 °	841	4000 K	80	3500 lm	3500 lm	200 °
542076	25T5HO/COR/46-850/MF35/G 25/1	200 °	850	5000 K	80	3500 lm	3500 lm	200 °
545269	34T8/COR/96-840/MF42/G/FA8 10/1	240 °	841	4000 K	82	4200 lm	4200 lm	240 °
545277	34T8/COR/96-850/MF42/G/FA8 10/1	240 °	850	5000 K	82	4200 lm	4200 lm	240 °
545285	44T8HO/COR/96-840/MF54/G/R17d 10/1	240 °	841	4000 K	82	5400 lm	5400 lm	240 °
545293	44T8HO/COR/96-850/MF54/G/R17d 10/1	240 °	850	5000 K	82	5400 lm	5400 lm	240 °
545178	15.5T8/MAS/48-830/IF23/P 25/1	180 °	830	3000 K	80	2300 lm	2300 lm	180 °
533372	15.5T8/MAS/48-835/IF24/P 25/1	180 °	835	3500 K	80	2400 lm	2400 lm	180 °
545194	15.5T8/MAS/48-840/IF25/P 25/1	180 °	841	4000 K	80	2500 lm	2500 lm	180 °
545200	15.5T8/MAS/48-850/IF25/P 25/1	180 °	850	5000 K	80	2500 lm	2500 lm	180 °

Temperature

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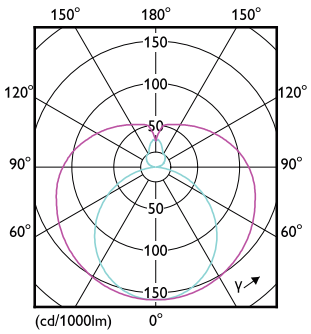
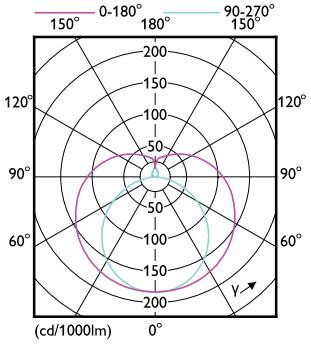
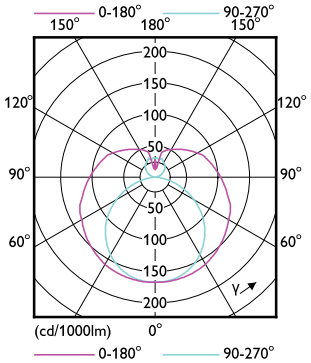
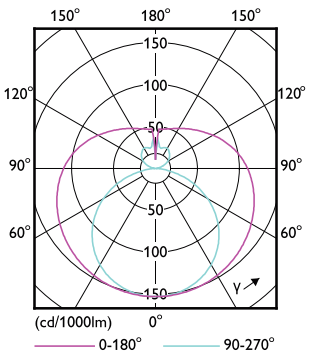
Order Code	Full Product Name	T-Ambient (Max)	T-Case Maximum (Nom)
542084	16T8/LED/48-840/IF18/G 25/1	45 °C	35 °C
542092	16T8/LED/48-850/IF18/G 25/1	45 °C	35 °C
539972	16T8/LED/48-840/UF18/G 10/1	45 °C	60 °C
539980	16T8/LED/48-850/UF18/G 10/1	45 °C	60 °C
542050	25T5HO/COR/46-835/MF33/G 25/1	45 °C	75 °C
542068	25T5HO/COR/46-840/MF35/G 25/1	45 °C	75 °C
542076	25T5HO/COR/46-850/MF35/G 25/1	45 °C	75 °C
545269	34T8/COR/96-840/MF42/G/FA8 10/1	45 °C	45 °C
545277	34T8/COR/96-850/MF42/G/FA8 10/1	45 °C	45 °C
545285	44T8HO/COR/96-840/MF54/G/R17d 10/1	45 °C	55 °C
545293	44T8HO/COR/96-850/MF54/G/R17d 10/1	45 °C	55 °C
545178	15.5T8/MAS/48-830/IF23/P 25/1	55 °C	50 °C
533372	15.5T8/MAS/48-835/IF24/P 25/1	55 °C	50 °C
545194	15.5T8/MAS/48-840/IF25/P 25/1	55 °C	50 °C
545200	15.5T8/MAS/48-850/IF25/P 25/1	55 °C	50 °C









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