



PHILIPS

LED lamps

Linear LED lamps

Simple retrofit solutions with **spectacular energy savings**

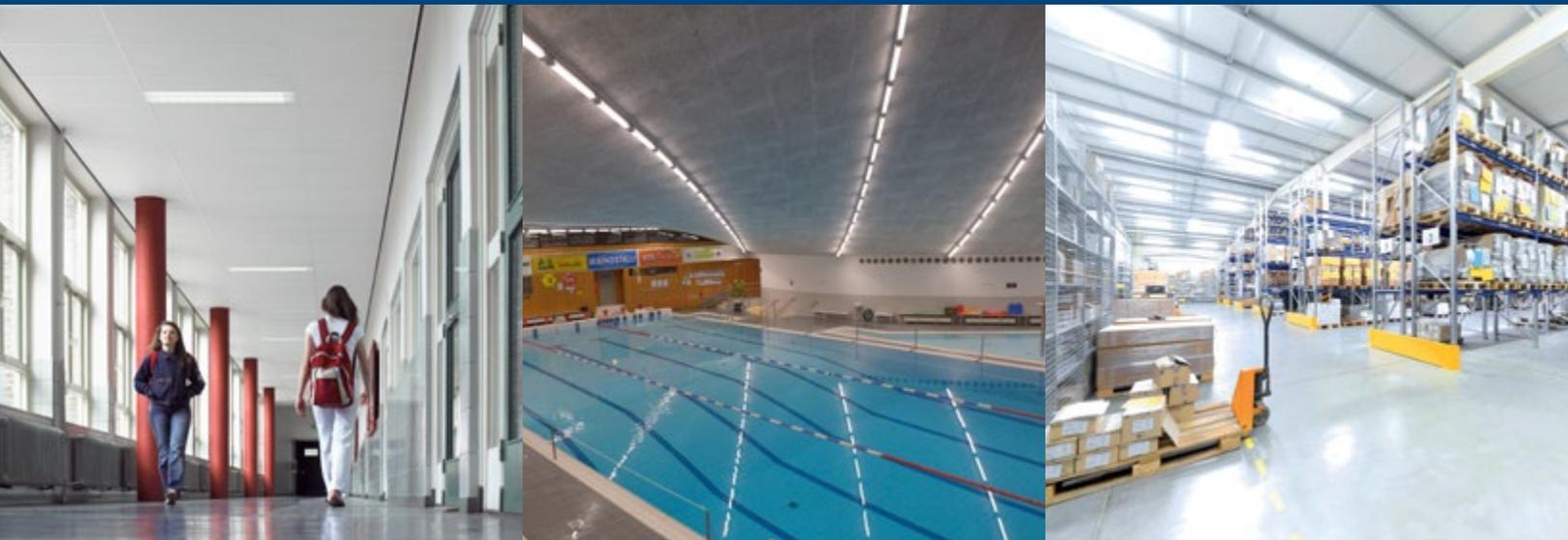
Comprehensive retrofit **InstantFit** (Type A+C), **MainsFit** (Ballast bypass/UL Type B) and **FlexFit** (Hybrid UL Type A+B) portfolios enabling hassle-free installation for all of your linear application needs

LED T8 & T5 lamps

Philips TLEDs

provide the perfect light for every space

Philips linear LED lamps — delivering solutions that matter in linear LED applications. Philips LED lamps deliver long lifetime, low flicker, reliability and performance. Enhance your space with energy savings, longer life (compared to linear fluorescent), excellent lumen and color maintenance, instant on and built-in surge protection.



Powerful reasons to switch from linear fluorescent to LED



Energy savings¹
up to 69%



Simple installation



Reliable lifetime²
up to 70.000 hours



Durable
Available shatter-resistant plastic

1. Compared to a 32W linear fluorescent T8 lamp, the 9.9W TLED saves 69% ((32W-9.9W)/32W = 69%).

2. 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).

Two tiers to fit your unique needs with a switch to Philips LED T8 lamps

- **MasterClass:** our premium tier for critical applications:
 - Polycarbonate tube with aluminum heat-sink
 - 70,000 hour rated life³
 - 7-year limited warranty⁴
- **CorePro:** our cost-effective tier focused on affordability:
 - Glass tube with a wide beam of light
 - 50,000 hour rated life³
 - 5-year limited warranty⁴
- **No visible flicker:** deliver a comfortable lighting environment²

Philips MasterClass

T8 plastic replacement lamps

Long life, shatter-resistant lighting

- Philips LED T8 lamps are ideally suited to food service, healthcare and industrial applications
- Plastic tube prevents shatter better than coated glass
- 70,000 hr³ rated life and standard 7-year limited warranty⁴
- No visible flicker



Philips CorePro

T8 glass replacement lamps

Energy efficient, affordable lighting

- DLC listed and affordable
- Glass tube with >320° illumination angle
- Available in variety of lengths 2', 3', 4', 8', 6" U-Bend & T5 HO
- Choose the light level and energy savings that suit your needs



Common features

T8 replacement lamps

Thoughtfully designed to simplify your relamping needs

- No visible flicker on most Philips lamps
- Internal surge protection with no need for an external device
- DLC⁵ listed, NSF class 2 listed and cULus certified
- Philips emergency drivers⁶ provide emergency capability
- Versatility you need backed by Philips quality standards



1. MainsFit TLEDs exceed UL pin leakage requirements of <5 M.I.U.

2. Tested per IEEE 1789-2015, PstLM <1.0 is negligible and most T8 LED products meet this requirement.

3. 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).

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

5. No DLC category exists for an 8ft TLED with R17d base. See DLC QPL for full details (www.designlights.org).

6. Visit www.philips.com/mainsfit for more details.

TLED lamps A lamp to fit each need

Lamp type

Why use vs other TLED types

Lamp features

Type A InstantFit



Fastest ROI versus other TLED types
Plug-and-play

- Philips leads the industry with over 15,000 compatible lamp+ballast combinations
- Available in both plastic and glass tubes (dimnable versions available)
- Most Philips Type A lamps double as Type C lamps.

Type A UniversalFit



Works regardless of the ballast type

- Philips lamp delivers energy savings and extended life in both configurations compared to linear fluorescent
- Operates on both T12 magnetic and T8 or T12 electronic ballasts
- UniversalFit LED tubes exceed UL pin leakage requirements¹

Hybrid A+B FlexFit



Installation flexibility with plug-and-play or re-wire

- Philips FlexFit is a double-ended Type B
- One lamp for either type A or Type B installation

Type B MainsFit



Long term simplicity

- Philips MainsFit (UL Type B) lamps are double-ended for simple installation
- High light quality standards minimizes flicker and glare
- Built-in surge protection

Type C InstantFit



Most efficient solution
Rebate driven

- Philips InstantFit Type A lamps double as our Type C lamps
- Prevents “Snap-back” of conventional lamps and enables rebates
- A variety of drivers vary the light output and wattage consumption for each lamp

1. MainsFit TLEDs exceed UL pin leakage requirements of <5 M.I.U.

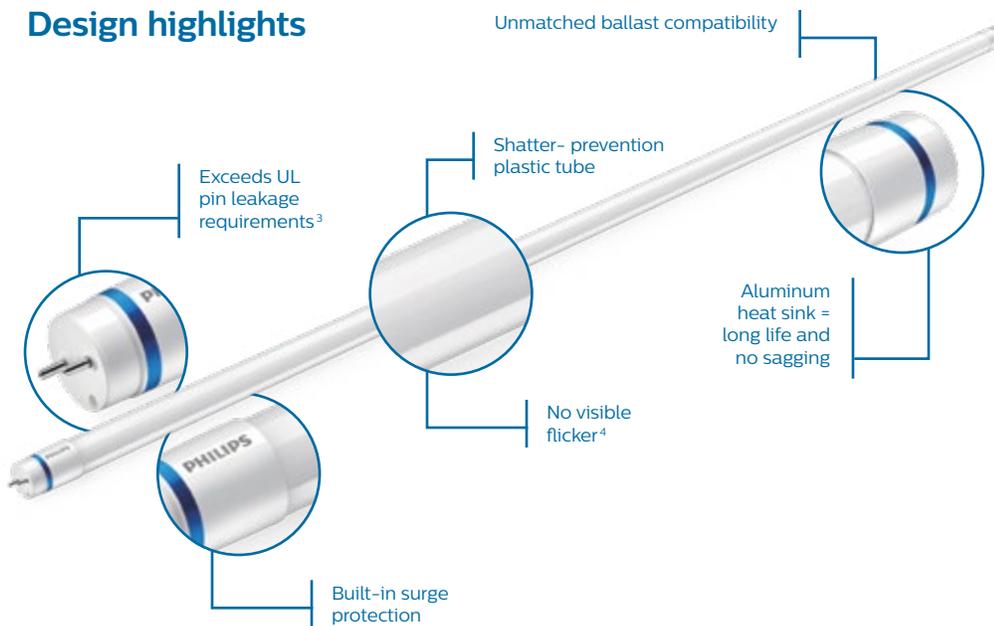


InstantFit lamps (Type A/C)

Save energy and provide the perfect light

End users will delight under our comfortable and high quality InstantFit (Type A) LED Lights. These lamps have no visible flicker⁴ and optimized optics to deliver beautiful light, while energy managers count the savings delivered by our lamps. Combine our InstantFit lamps with Advance TLED drivers to create a Type C system. With available 70,000 hour life, 7-year limited warranty and a shatter-prevention polycarbonate lens, Philips InstantFit TLEDs deliver for all.

Design highlights



Key features



Low Energy



3000, 3500, 4000, & 5000K



No sagging



Up to 70,000 hrs¹



Shatter prevention plastic tube



Flexible Installation



	72% ⁵ Energy savings	32W 32w Linear fluorescent	8.9W 8.9w MainsFit LED lamp MasterClass T8	\$1,016 ⁵ Energy savings per year
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Calculate energy savings⁵

This example shows an application of 100 lamps accenting a space, operating 4,000 hours (your actual savings may vary).

Number of lamps	100
Burning hours per year	4,000 hrs ⁶
Energy costs	\$0.11/kWh ⁷

1. Tested to B50 L70 requirement. 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).
2. For more information on Philips' limited warranty please visit www.philips.com/warranties.
3. MainsFit TLEDs exceed UL pin leakage requirements of <5 M.I.U.
4. Tested per IEEE 1789-2015. PstLM <1.0 is negligible and all MainsFit products meet this requirement.
5. Energy savings are based on the comparison of conventional power consumption = 32W LED lamp vs system consumption based on 8.9W InstantFit (Type A) MasterClass T8 LED.
6. Energy use. Based on burning 4,000 hours per year.
7. Energy price. Based on the U.S. average of \$0.11/kWh (actual rates may vary).

MainsFit lamps (UL Type B)

Fantastic lighting, incredible value

The perfect lamp for ESCOs and contractors alike, MainsFit (UL Type B) LED lamps provide a solution for most LED tube applications with a focus on efficacy and value. The workhorse of the MainsFit family delivers significant energy savings and is DLC certified maximizing energy savings and rebate opportunities.

Design highlights



Key features



Low Energy



3000, 3500, 4000, & 5000K



No sagging



Up to 70,000 hrs¹



Double-ended installation



DLC



RoHS COMPLIANT



UL US



NSF



Calculate energy savings⁴

This example shows an application of 100 lamps accenting a space, operating 4,000 hours (your actual savings may vary).

Number of lamps	100
Burning hours per year	4,000 hrs ⁵
Energy costs	\$0.11/kWh ⁶

- 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).
- MainsFit TLEDs exceed UL pin leakage requirements of <5 M.I.U.
- Tested per IEEE 1789-2015. PstLM <1.0 is negligible.
- Energy savings are based on the comparison of lamp power consumption = 32W LED lamp vs. system consumption based on InstantFit MasterClass 8.9W.
- Energy use. Based on burning 4,000 hours per year.
- Energy price. Based on the U.S. average of \$0.11/kWh (actual rates may vary).

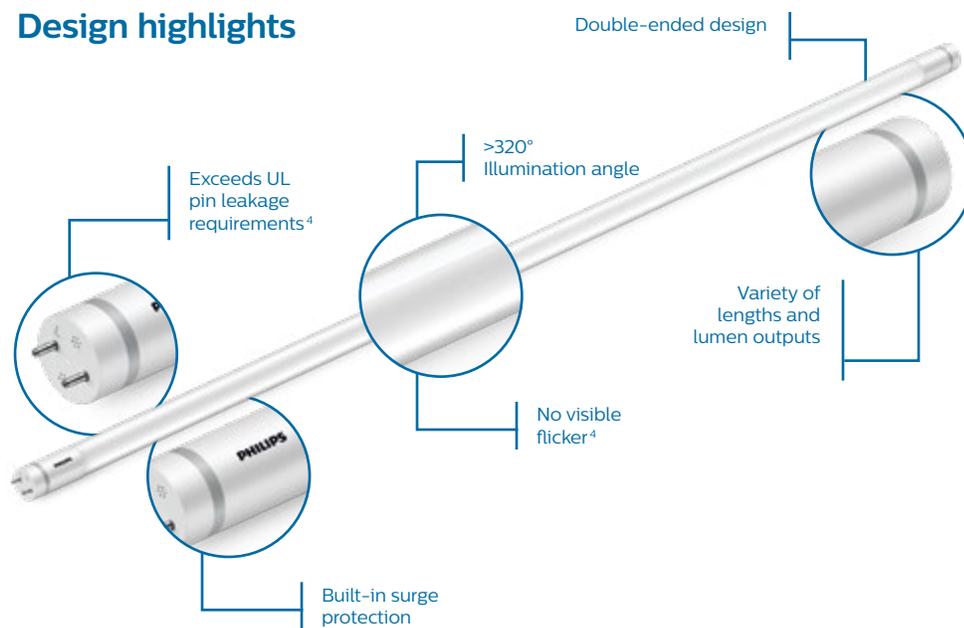
MainsFit BAA Compliant T8 lamps (UL Type B)

Installation simplified

MainsFit (UL Type B) BAA Compliant* T8 LED lamps are proudly manufactured in the USA and provide the quality as well as the performance expected from Philips. These ballast bypass (TLED Type B) lamps feature a double-ended design which simplifies installation, saving time and costs¹. This product can replace either T8 or T12 lamps in fixtures containing shunted or non-shunted G13 (medium bi-pin) lamp holders².



Design highlights



Key features



Low Energy



3500, 4000, & 5000K



MainsFit Max technology



50,000 hrs³



BAA compliant*

* As of the date of this document, MainsFit (UL Type B) BAA Compliant T8 lamps are commercially available off-the-shelf (COTS) items meeting the requirements of the Buy American Act of 1933 (BAA). This BAA designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies. Prior to ordering, please visit www.signify.com/baa to view a current list of BAA-compliant products to confirm product's current compliance.



Calculate energy savings¹

This example shows an application of 100 lamps accenting a space, operating 4,000 hours. Your actual savings may vary depending on the energy costs in your geographic location.

Number of lamps	100
Burning hours per year	4,000 hrs ⁵
Energy costs	\$0.11/kWh ⁶

1. Energy savings are based on the comparison of lamp power consumption = 32W, vs. lamp consumption based on MainsFit (Type B) CorePro 12.5W.
 2. For proper operation, you need to shunt any unshunted sockets. Please see installation guide for details.
 3. 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).
 4. Tested per IEC 10000-1:2015. SVM <1.0 is negligible. These exceed UL pin leakage requirements of <5 M.I.U.
 5. Energy use. Based on burning 4,000 hours per year.
 6. Energy price. Based on the U.S. average of \$0.11/kWh (actual rates may vary).

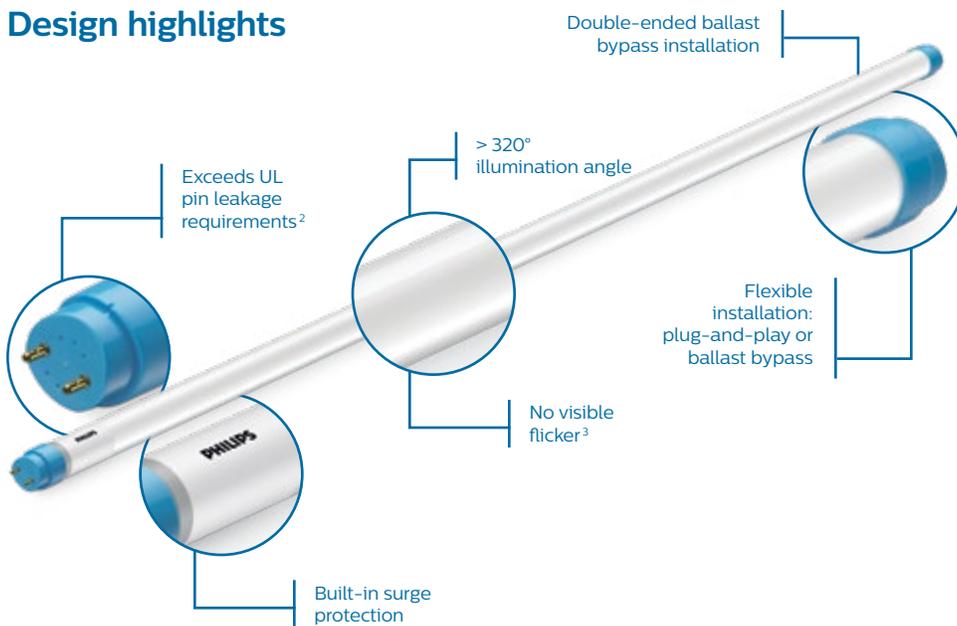
FlexFit T8 lamps (Hybrid UL Type A+B)

Flexible installation, incredible value

The lamp works as either a **plug-and-play (UL Type A)** or **ballast bypass (UL Type B) lamp**, FlexFit (Dual-mode) T8 LED lamps provide the flexibility to fit your lighting application needs. As a Type A lamp it is compatible with a variety of ballasts, however, if a ballast is not desired the lamp can quickly be installed as a double-ended ballast bypass lamp.



Design highlights



Key features



Low Energy



3500, 4000, & 5000K



MainsFit Max technology



50,000 hrs¹



Flexible Installation



61%⁴
Energy savings

32W

32w
Linear fluorescent

9.9W

FlexFit LED lamp
12.5w
Hybrid T8

\$858⁴

Energy savings per year

Calculate energy savings⁴

This example shows an application of 100 lamps accenting a space, operating 4,000 hours. Your actual savings may vary depending on the energy costs in your geographic location.

Number of lamps	100
Burning hours per year	4,000 hrs ⁵
Energy costs	\$0.11/kWh ⁶

- 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).
- FlexFit TLEDs exceed UL pin leakage requirements of <5 M.I.U.
- Tested per IEEE 1789-2015. SVM <1.0 is negligible.
- Energy savings are based on the comparison of lamp power consumption = 32W, vs. lamp consumption based on FlexFit CorePro 12.5W.
- Energy use. Based on burning 4,000 hours per year.
- Energy price. Based on the U.S. average of \$0.11/kWh (actual rates may vary).

InstantFit (Type C) lamps

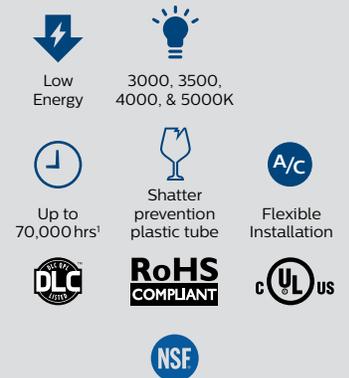
One lamp covers both Type A and Type C

Philips InstantFit T8 LEDs also work as part of our Type C systems. To create a Type C system, simply pair our InstantFit lamps with our Advance TLED drivers. One lamp gives distributors and end users more capability than a typical lamp.

Design highlights



Key features



Calculate energy savings⁴

This example shows an application of 100 lamps accenting a space, operating 4,000 hours. Your actual savings may vary depending on the energy costs in your geographic location.

Number of lamps	100
Burning hours per year	4,000 hrs ⁵
Energy costs	\$0.11/kWh ⁶

- 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).
- FlexFit TLEDs exceed UL pin leakage requirements of <5 M.I.U.
- Tested per IEEE 1789-2015. SVM <1.0 is negligible.
- Energy savings are based on the comparison of lamp power consumption = 32W, vs. lamp consumption based on FlexFit CorePro 12.5W.
- Energy use. Based on burning 4,000 hours per year.
- Energy price. Based on the U.S. average of \$0.11/kWh (actual rates may vary).

Ordering information

MasterClass InstantFit (UL Type A/C ballast compatible) T8 lamps



Length	Material	Energy	Lumens	UL Type	Feature	Life (hrs)	3000K	3500K	4000K	5000K	DLC
4ft	Plastic	8.9W	1600	A, C	Dim	70k	565580	565598	565606	565614	•
4ft	Plastic	13W	2100	A, C	Dim	70k	473926	473934	473942	473958	•
4ft	Plastic	15.5W	2500	A, C	Dim	70k	–	533372	545194	545200	•
3ft	Plastic	8.5W	1300	A, C	Dim	70k	539858	539866	539874	539882	•
2ft	Plastic	7W	1150	A, C	Dim	70k	541813	541821	541839	541847	•
U-bend	Plastic	13W	2100	A, C	Dim	70k	541854	541862	541870	541888	•

CorePro InstantFit (UL Type A/C ballast compatible) T8 lamps



Length	Material	Energy	Lumens	UL Type	Feature	Life (hrs)	3000K	3500K	4000K	5000K	DLC
4ft	Glass	10W	1600	A	Dim	50k	553214	553222	553230	553248	•
4ft	Glass	14W	2100	A	Dim	50k	470096	470104	470112	470120	•
8ft	Glass	30W	4200	A	FA8	50k	533000	533018	533026	533034	•

CorePro UniversalFit (Type A) T8 lamps



Length	Material	Energy	Lumens	UL Type	Feature	Life (hrs)	3000K	3500K	4000K	5000K	DLC
4ft	Glass	16W	1800	A	HF or EM	36k	–	–	539972	539980	–

MasterClass InstantFit (UL Type A) HO T5 lamps



Length	Material	Energy	Lumens	UL Type	Feature	Life (hrs)	3000K	3500K	4000K	5000K	DLC
4ft	Plastic	24	3500	A	HO	50k	467126	467134	467142	467159	•

CorePro InstantFit (UL Type A) HE T5 lamps



Length	Material	Energy	Lumens	UL Type	Feature	Life (hrs)	3000K	3500K	4000K	5000K	DLC
4ft	Glass	14	2100	A	HE	50k	476499	476507	476515	476523	•
3ft	Glass	11	1500	A	HE / HO	50k	476457	476465	476473	476481	–
2ft	Glass	8	1050	A	HE / HO	50k	476416	476424	476432	476440	–

CorePro FlexFit (UL Type A+B) T8 lamps



Length	Material	Energy	Lumens	UL Type	Feature	Life (hrs)	3000K	3500K	4000K	5000K	DLC
4ft	Glass	12.5W	1800	A+B		50k	–	560193	600189	600197	•

Ordering information



MasterClass MainsFit (UL Type B) T8 lamps

Length	Material	Energy	Lumens	UL Type	Feature	Life (hrs)	3000K	3500K	4000K	5000K	DLC
4ft	Plastic	10.5W	1650	B	–	70k	–	557355	557363	557371	•
4ft	Plastic	14.5W	2100	B	–	70k	557389	557397	557405	557413	•
4ft	Plastic	16.9W	2500	B	–	70k	–	561720	561712	561738	•
4ft	Plastic	10.5W	1650	B	DLC5.1*	70k	–	573766	573774	573782	•
4ft	Plastic	14.5W	2100	B	DLC5.1*	70k	573790	573808	573816	573824	•
4ft	Plastic	16.9W	2500	B	DLC5.1*	70k	–	573832	573840	573857	•



CorePro MainsFit (UL Type B) T8 lamps

Length	Material	Energy	Lumens	UL Type	Feature	Life (hrs)	3000K	3500K	4000K	5000K	DLC
4ft	Glass	9.9W	1650	B	–	50k	–	557421	557439	557447	•
4ft	Glass	12.5W	1800	B	–	50k	477315	477323	477331	477349	•
4ft	Glass	15W	2100	B	–	50k	471748	471755	471763	471771	•
3ft	Glass	11.5W	1400	B	–	50k	535492	535500	535518	535526	•
2ft	Glass	8.5W	1150	B	–	50k	535450	535468	535476	535484	•
U-bend	Glass	15.5W	2100	B	–	50k	535534	535542	535559	535567	•
8ft	Glass	34W	4200	B	FA8	50k	–	–	545269	545277	•
8ft	Glass	44W	5500	B	R17d	50k	–	–	545285	545293	–
8ft	Glass	33W	4200	B	FA8	50k	–	–	575134	575142	•
8ft	Glass	42W	5500	B	FA8	50k	–	–	575720	575738	•
8ft	Glass	42W	5500	B	R17d	50k	–	–	575738	575753	–



CorePro MainsFit (UL Type B) DLC 5.1 T8 lamps

Length	Material	Energy	Lumens	UL Type	Feature	Life (hrs)	3000K	3500K	4000K	5000K	DLC
4ft	Glass	12W	1700	B	Dim*	50k	563486	563494	563502	563510	•
4ft	Glass	14.5W	2000	B	Dim*	50k	563528	563536	563544	563551	•
4ft	Glass	9.9W	1500	B	Dim*	50k	–	563452	563460	563478	•



CorePro MainsFit (UL Type B) BAA compliant T8 lamps

Length	Material	Energy	Lumens	UL Type	Feature	Life (hrs)	3000K	3500K	4000K	5000K	DLC
4ft	Glass	11W	1650	B	BAA	50k	–	563692	563700	563718	•
4ft	Glass	15.5W	2100	B	BAA	50k	–	563726	563734	563742	•
2ft	Glass	8.5W	1150	B	BAA	50k	–	563759	563767	563775	•



CorePro MainsFit (UL Type B) T5HO lamps

Length	Material	Energy	Lumens	UL Type	Feature	Life (hrs)	3000K	3500K	4000K	5000K	DLC
4ft	Glass	25W	3500	B	G5	50k	–	542050	542068	542076	•

* Dim = up to 2 lamps can be dimmed on a wall-box dimmer at 120V only. Compatible with PTB15D emergency backup driver.



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