



# LED Lamps - Tubes

## Type B Double-Ended LED Tubes

Convert your existing linear fluorescent fixture to LED lighting without needing a comprehensive reinstall. LED tubes are ideal for those seeking high energy savings with minimal installation time. The existing fixture is wired to bypass the ballast, which further reduces energy use and eliminates the need to check ballast compatibility.



### PERFORMANCE HIGHLIGHTS:

Type B LED Tubes	
<b>Light Output:</b>	900 - 5,500 Lumens
<b>CRI:</b>	80
<b>CCT:</b>	3000K-5000K
<b>Wattage:</b>	7-43W
<b>Life:</b>	50,000 - 70,000 hours L70
<b>Temperature Rating:</b>	-20° to 45° C
<b>Rating:</b>	Damp
<b>Fixtures:</b>	Open or Enclosed
<b>Certification:</b>	DLC Listed, NSF Food Zone (covRguard®)

### LIMITED WARRANTY

7 years for 70,000 hours  
5 years for 50,000 hours

### FEATURES:

#### Safety First Built-In Protection:

- Internal Safety Switch-Provides protection for the installer
- Internal Misapplication Circuit: Provides protection if lamp is placed into ballasted fixture
- Optional In-line fuse kit to protect against future re-lamp misapplications (available for ordering separately)

#### Full Portfolio of Type B LED Tubes:

- Glass tubes and plastic coated glass options
- 120-277V and 120-347V options
- T8 & T5 lamps in a variety of lengths and light outputs

### BENEFITS:

- Direct wire to bypass the ballast; reduces energy use, eliminates ballast compatibility concerns and associated ballast maintenance costs
- No socket replacement necessary; double-ended Type B tubes can be used with shunted or non-shunted sockets
- The polycarbonate plastic covRguard® sleeve is factory-sealed on the glass tube to provide a seamless look and feel, eliminating the need for a field-installed sleeve or fixture guard
- covRguard® offers shatter protection and provides containment, eliminating downtime

### LEARN MORE:

To learn more about saving money and energy, go to [www.LED.com](http://www.LED.com).



Not all product variations listed on the page are DLC qualified. To ensure that a specific model is qualified, visit [www.designlights.org/search](http://www.designlights.org/search).



# LED Lamps - Tubes

## Type B Tubes

CUSTOMER NAME \_\_\_\_\_  
 PROJECT NAME \_\_\_\_\_  
 DATE \_\_\_\_\_ NOTES \_\_\_\_\_

### Ballast Bypass Glass Tubes - Double Ended - Type B - T5

Bulb Shape	Base Type	Watts	Order Code	Description	Volts	Carton Qty <sup>2</sup>	MOL (in)	Lumens (Initial)	Color Temp. (Initial)	CRI	Rated Life L70 (Hrs) <sup>1</sup>	Power Factor	DLC <sup>3,4</sup>	Location Rating <sup>3</sup>	Additional Information
<b>Ballast Bypass - 4ft T5 HO Glass Tubes</b>															
T5	G5	25	93100292	LED25BDT5/G4/830	120-277	20	46	3300	3000K	80	50,000	>0.9	Yes	Damp	
	G5	25	93100293	LED25BDT5/G4/835	120-277	20	46	3400	3500K	80	50,000	>0.9	Yes	Damp	
	G5	25	93100294	LED25BDT5/G4/840	120-277	20	46	3500	4000K	80	50,000	>0.9	Yes	Damp	
	G5	25	93100295	LED25BDT5/G4/850	120-277	20	46	3600	5000K	80	50,000	>0.9	Yes	Damp	
<b>Ballast Bypass - 3ft T5 HO Glass Tubes</b>															
T5	G5	17	93114325	LED17BDT5/G3/830	120-277	20	34	2300	3000K	80	50,000	>0.9	-	Damp	
	G5	17	93114626	LED17BDT5/G3/835	120-277	20	34	2400	3500K	80	50,000	>0.9	-	Damp	
	G5	17	93114629	LED17BDT5/G3/840	120-277	20	34	2500	4000K	80	50,000	>0.9	-	Damp	
	G5	17	93114814	LED17BDT5/G3/850	120-277	20	34	2550	5000K	80	50,000	>0.9	-	Damp	
<b>Ballast Bypass - 2ft T5 HO Glass Tubes</b>															
T5	G5	11	93113793	LED11BDT5/G2/830	120-277	20	22	1500	3000K	80	50,000	>0.9	-	Damp	
	G5	11	93114322	LED11BDT5/G2/835	120-277	20	22	1550	3500K	80	50,000	>0.9	-	Damp	
	G5	11	93114323	LED11BDT5/G2/840	120-277	20	22	1600	4000K	80	50,000	>0.9	-	Damp	
	G5	11	93114324	LED11BDT5/G2/850	120-277	20	22	1650	5000K	80	50,000	>0.9	-	Damp	
<b>Ballast Bypass - 4ft T5 HE Glass Tubes</b>															
T5	G5	14	93128354	LED14BDT5G4830HE	120-277	20	46	2050	3000K	80	50,000	>0.9	Yes	Damp	
	G5	14	93128355	LED14BDT5G4835HE	120-277	20	46	2100	3500K	80	50,000	>0.9	Yes	Damp	
	G5	14	93128486	LED14BDT5G4840HE	120-277	20	46	2150	4000K	80	50,000	>0.9	Yes	Damp	
	G5	14	93128487	LED14BDT5G4850HE	120-277	20	46	2150	5000K	80	50,000	>0.9	Yes	Damp	
<b>Ballast Bypass - 3ft T5 HE Glass Tubes</b>															
T5	G5	11	93128488	LED11BDT5G3830HE	120-277	20	34	1600	3000K	80	50,000	>0.9	-	Damp	
	G5	11	93128490	LED11BDT5G3835HE	120-277	20	34	1650	3500K	80	50,000	>0.9	-	Damp	
	G5	11	93128491	LED11BDT5G3840HE	120-277	20	34	1700	4000K	80	50,000	>0.9	-	Damp	
	G5	11	93128492	LED11BDT5G3850HE	120-277	20	34	1700	5000K	80	50,000	>0.9	-	Damp	
<b>Ballast Bypass - 2ft T5 HE Glass Tubes</b>															
T5	G5	9	93128494	LED9BDT5G2/830HE	120-277	20	22	1250	3000K	80	50,000	>0.9	-	Damp	
	G5	9	93128495	LED9BDT5G2/835HE	120-277	20	22	1300	3500K	80	50,000	>0.9	-	Damp	
	G5	9	93128570	LED9BDT5G2/840HE	120-277	20	22	1350	4000K	80	50,000	>0.9	-	Damp	
	G5	9	93128571	LED9BDT5G2/850HE	120-277	20	22	1350	5000K	80	50,000	>0.9	-	Damp	

### Ballast Bypass covRguard® Plastic Sleeved Glass Tubes - Double Ended - Type B - T5

Bulb Shape	Base Type	Watts	Order Code	Description	Volts	Carton Qty <sup>2</sup>	MOL (in)	Lumens (Initial)	Color Temp. (Initial)	CRI	Rated Life L70 (Hrs) <sup>1</sup>	Power Factor	DLC <sup>3,4</sup>	Location Rating <sup>3</sup>	Additional Information
<b>Ballast Bypass - 4ft covRguard® Plastic Sleeved Glass Tubes</b>															
T5	G5	25	93155904	LED25BDT5/G4/840/CVG	120-277	20	46	3400	4000K	80	50,000	>0.9	Yes	Damp	NSF Food Zone
	G5	25	93155905	LED25BDT5/G4/850/CVG	120-277	20	46	3400	5000K	80	50,000	>0.9	Yes	Damp	NSF Food Zone

### 120-347V Ballast Bypass Glass Tubes - Double Ended - Type B - T5

Bulb Shape	Base Type	Watts	Order Code	Description	Volts	Carton Qty <sup>2</sup>	MOL (in)	Lumens (Initial)	Color Temp. (Initial)	CRI	Rated Life L70 (Hrs) <sup>1</sup>	Power Factor	DLC <sup>3,4</sup>	Location Rating <sup>3</sup>	Additional Information
<b>120-347V Ballast Bypass - 4ft T5 HO Glass Tubes</b>															
T5	G5	25	93305599	LED25BDT5/G4/835/120-347	120-347	25	46	3400	3500K	80	50,000	>0.9	Yes	Damp	
	G5	25	93305600	LED25BDT5/G4/840/120-347	120-347	25	46	3500	4000K	80	50,000	>0.9	Yes	Damp	
	G5	25	93305601	LED25BDT5/G4/850/120-347	120-347	25	46	3500	5000K	80	50,000	>0.9	Yes	Damp	

<sup>1</sup> The life rating is based on the hours of operation the lamp will provide before reaching 70% of its original lumen output (L70)

<sup>2</sup> Minimum order quantity = Carton Qty

<sup>3</sup> UL 1993 Environmental Requirements for LED LAMPS

Damp Location - Exterior or interior location that is normally or periodically subject to condensation of moisture in, on, or adjacent to electrical equipment, including partially protected locations

<sup>4</sup> Not all product variations on this page are DLC qualified. Visit [qpl.designlights.org/solid-state-lighting](http://qpl.designlights.org/solid-state-lighting) to confirm qualification.