







Regulation Readiness

FLUORESCENT & HID MERCURY PHASE-OUT

Current

AVAILABLE THROUGH GRAINGER
FOR THE ONES WHO GET IT DONE

In an effort to regulate consumer products that contain mercury, state governments within the USA have passed legislation that will prohibit the sale and distribution of Linear & Compact Fluorescent lamps, and Mercury Vapor High Intensity Discharge Lamps. The effective date of each state regulation is shown in the table below. This table will continue to evolve as new legislation is passed.

Regulation Effective Date by Product Category

State	Product Category				
	4-Foot Linear Fluorescent	All Linear Fluorescent	Screw or Bayonet Based Compact Fluorescent	Pin Based Compact Fluorescent	Mercury Vapor High Intensity Discharge
Vermont	1/1/2024				
California		1/1/2025	1/1/2024	1/1/2025	
Colorado		1/1/2025	1/1/2024	1/1/2025	
Oregon		1/1/2025	1/1/2024	1/1/2025	
Rhode Island		1/1/2025	1/1/2024	1/1/2025	
Hawaii		1/1/2026	1/1/2025	1/1/2026	
Minnesota		1/1/2026	1/1/2025	1/1/2026	1/1/2025
Maine		1/1/2026	1/1/2026	1/1/2026	
Illinois		1/1/2027	1/1/2026	1/1/2027	
Washington State		1/1/2029	1/1/2029	1/1/2029	

European Union (EU) Manufacturing & Export Ban

Under the Revised Mercury Regulation (EU) 2024/1849, starting December 31, 2026 the EU has banned the export on triband phosphor fluorescent lamps as part of a broader effort to eliminate mercury-containing products and move the market toward LED lighting. High output and all 8-foot linear fluorescent lamps are primarily manufactured in Europe, so the EU export ban is particularly impactful on these products. Regulation on exportation from China is also forthcoming, so a worldwide shift to LED solutions for these applications is anticipated in the near future.

Mercury in Fluorescent Lighting

Fluorescent technology was developed by General Electric in 1934. While the amount of mercury in each fluorescent lamp has significantly decreased over the past 90 years, a small amount is still required to produce light in all Discharge lamps. When electricity is applied to a fluorescent tube, mercury ions emit energy in the form of ultraviolet (UV) light. UV light is then converted into visible light by interacting with the phosphor coating on the inside of the glass tube. Mercury has electrical characteristics that cannot be matched by other materials and remains a key component of fluorescent lighting.

Mercury in High Intensity Discharge Lighting

Mercury Vapor lamps were the first commercially available High Intensity Discharge (HID) lamps, and were patented by General Electric in 1913. Mercury vapor lamps contain metals such as mercury and sodium inside the discharge tube. The heated gas vaporizes some of the metal causing it to discharge photons. The photons emitted by mercury and sodium produce a visible glow. Mercury vapor lamps typically contain between 10 and 100mg of mercury.

Transitioning to LED Lighting

LED (Light Emitting Diode) lamps do not contain mercury, and Current offers a variety of LED lamp options to replace Linear & Compact Fluorescent lamps and Mercury Vapor lamps. The different Types of LED lamps are explained in the following pages. Suggested LED replacements are noted for traditional lamps in the tables in this document. These are basic recommendations, but suitability should be evaluated for each specific application where traditional lamps were used. For more information about the transition from traditional lighting to LED, contact your Current sales representative.

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LED Lamps - Tubes

LED Tubes, sometimes referred to as "TLEDs," are meant to use linear fluorescent sockets and fixtures. LED Tubes have the same length and pins as the linear fluorescent lamps they are intended to replace. The details of how the fixture is wired and the auxiliary equipment used may vary, depending on the LED Tube solution.

The lighting industry refers to three basic Types of LED Tubes:

-**Type A LED Tubes** are intended to be used as direct replacements for linear fluorescent lamps, with no modification to the fixture. Type A LED Tubes operate from fluorescent ballasts.

-**Type B LED Tubes** operate from mains voltage. The ballast is bypassed and the fixture is re-wired according to the installation instructions that come with the lamp. Wiring may vary across Type B LED Tubes from different manufacturers. A retrofit fixture label indicating the LED Tube used and that the fixture has been re-wired is provided to be applied to the fixture.

-**Type C LED Tubes** operate from dedicated remote (external) LED drivers. Instead of a ballast, a remote driver is used to provide the proper voltage and current for the Type C LED Tubes. A retrofit fixture label indicating the LED Tube and Driver used is provided to be applied to the fixture. Type C LED Tube and Driver solutions vary across the industry – they are not yet standardized like linear fluorescent lamps and ballasts.

There are also "hybrid" lamps that can cover multiple Types of LED Tubes, depending on how they are implemented.

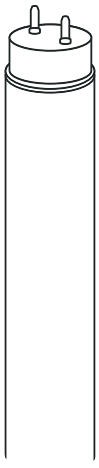
Current offers a wide range of GE LED Tubes to replace linear fluorescent lamps, including all of the Types above. Each Type of LED Tube offers different advantages, so the right solution may vary by application.

Which LED Tube is right for you?

A basic comparison of the Types of LED Tubes is provided below. For more detailed information, please contact your Current sales representative.

Ballast Compatible (UL Type A)

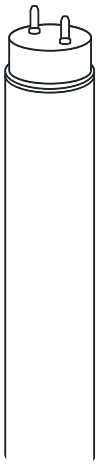
Easy Plug & Play



- Uses fluorescent ballast
- No re-wiring required
- Low installation cost
- Direct replacement (lamp)
- Dimming limited by ballast
- Check compatibility

Ballast Bypass (UL Type B)

Simple Long-Term Solution



- Uses no ballast / driver
- Re-wire to bypass ballast
- Low future maintenance
- Retrofit Kit (lamp, label)
- Dimming impractical
- Consider misapplication fuse

External LED Driver (UL Type C)

Robust & Flexible System

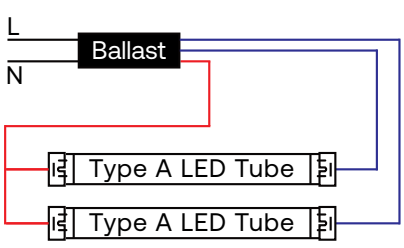
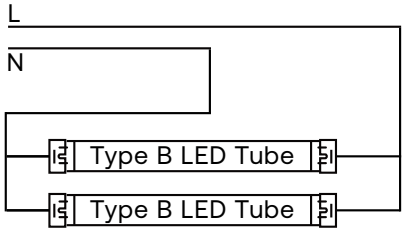
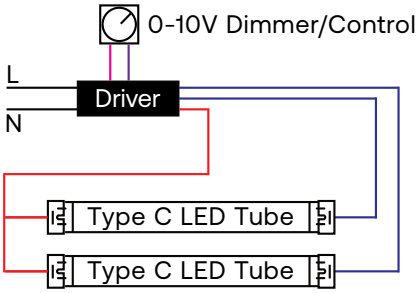
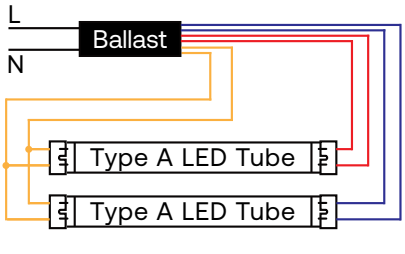
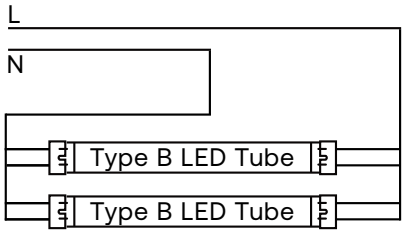
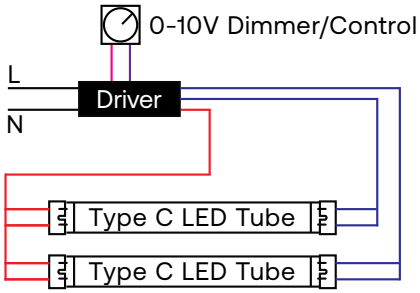


- Uses external LED driver
- Replace ballast with driver
- Low voltage output
- Retrofit Kit (lamp, label,driver)
- Dimming driver (0-10V)
- Field-tunable driver settings

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LED Tube Wiring Basics

The wiring diagrams below are provided as general guidance for GE LED Tubes. Other manufacturers' may vary. Refer to installation guides provided with GE LED Tubes for more detailed directions. If sockets are in good condition, no socket replacement should be necessary for GE LED Tubes. Add a jumper to non-shunted sockets, or tie both wires from a non-shunted socket to the incoming power as shown.

	Ballast Compatible (UL Type A)	**Ballast Bypass (UL Type B)**	**External LED Driver (UL Type C)**
	Follow Ballast Wiring Diagram	**Follow Lamp Wiring Diagram**	**Follow Driver Wiring Diagram**
	High Voltage Ballast Output to Sockets	Mains Voltage AC to Sockets	Low Voltage DC Driver Output to Sockets
Shunted Sockets (Used with Instant Start Ballasts)			
Non-Shunted Sockets (Used with Programmed Start Ballasts)			

LED Tube Construction, Coating, & covRguard®:

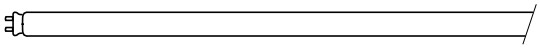
GE LED Tubes are primarily constructed of glass tubes with an internal coating for diffusion. This is similar to linear fluorescent construction that has been used for decades. Glass is a stable material and works well for most applications. The coating inside the glass provides good diffusion, spreading out the light and eliminating hot spots and pixilation from the individual LEDs.

GE LED Tubes are also offered with PET coating. This white coating is heat-shrunk onto a clear glass tube. Diffusion is supplied by the PET coating, which also provides some shatter resistance. These lamps are NSF Splash Zone rated.

GE LED Tubes are also available with covRguard®. Similar to covRguard® on linear fluorescent lamps, a polycarbonate sleeve is applied over the glass tube and affixed to the lamp end caps. This construction provides excellent shatter protection. These lamps are NSF Food Zone (Non-contact) rated.



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T5 (5/8" diameter) Miniature Bi-Pin Base (G5)

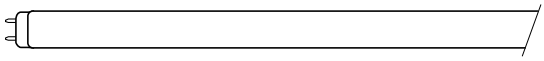


Min BiPin
G5

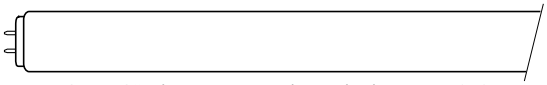
T5 Linear Fluorescent

T5 Linear Fluorescent Miniature Bi-Pin (G5)				Ballast Bypass (Type B) LED Tube			Ballast Compatible (Type A) LED Tube			Remote Driver (Type C) LED Tube		
Order Code	Grainger	Description	Color Temp.	Order Code	Grainger	Description	Order Code	Grainger	Description	Order Code	Grainger	Description
31590	5AE12	F14W/T5/830/ECO	3000K	93319133	394WX1	LEDLCBDT5/G2/8SC/120-347	34403	55GU31	LED7ET5/G2/830HE	93323646	–	LEDT5/LC/G/2/8SC
46671	5AE13	F14W/T5/835/ECO	3500K	93319133	394WX1	LEDLCBDT5/G2/8SC/120-347	34404	55GU32	LED7ET5/G2/835HE	93323646	–	LEDT5/LC/G/2/8SC
46673	5AE14	F14W/T5/841/ECO	4100K	93319133	394WX1	LEDLCBDT5/G2/8SC/120-347	34411	55GU33	LED7ET5/G2/840HE	93323646	–	LEDT5/LC/G/2/8SC
46677	5AE15	F21W/T5/830/ECO	3000K	93319131	393LA5	LEDLCBDT5/G3/8SC/120-347	34371	55GU27	LED10ET5G3/830HE	93323644	–	LEDT5/LC/G/3/8SC
46684	5AE16	F21W/T5/835/ECO	3500K	93319131	393LA5	LEDLCBDT5/G3/8SC/120-347	34376	55GU28	LED10ET5G3/835HE	93323644	–	LEDT5/LC/G/3/8SC
46687	5AE17	F21W/T5/841/ECO	4100K	93319131	393LA5	LEDLCBDT5/G3/8SC/120-347	34401	55GU29	LED10ET5G3/840HE	93323644	–	LEDT5/LC/G/3/8SC
46704	5AE18	F28W/T5/830/ECO	3000K	93319129	393LA6	LEDLCBDT5/G4/8SC/120-347	34351	55GU23	LED13ET5G4/830HE	93314792	–	LEDT5/LC/G/4/835XL
46705	5AE19	F28W/T5/835/ECO	3500K	93319129	393LA6	LEDLCBDT5/G4/8SC/120-347	34354	55GU24	LED13ET5G4/835HE	93314792	–	LEDT5/LC/G/4/835XL
46706	5AE20	F28W/T5/841/ECO	4100K	93128486	818FF5	LED14BDT5G4840HE	34355	55GU25	LED13ET5G4/840HE	93314794	–	LEDT5/LC/G/4/840XL
46699	5AE24	F24W/T5/830/ECO	3000K	93319133	394WX1	LEDLCBDT5/G2/8SC/120-347	34413	55GU19	LED11ET5/G/2/830	93323646	–	LEDT5/LC/G/2/8SC
46700	5AE25	F24W/T5/835/ECO	3500K	93319133	394WX1	LEDLCBDT5/G2/8SC/120-347	34417	55GU20	LED11ET5/G/2/835	93323646	–	LEDT5/LC/G/2/8SC
46701	5AE26	F24W/T5/841/ECO	4100K	93319133	394WX1	LEDLCBDT5/G2/8SC/120-347	34418	55GU21	LED11ET5/G/2/840	93323646	–	LEDT5/LC/G/2/8SC
46744	5AE27	F39W/T5/830/ECO	3000K	93319131	393LA5	LEDLCBDT5/G3/8SC/120-347				93323644	–	LEDT5/LC/G/3/8SC
46745	5AE28	F39W/T5/835/ECO	3500K	93319131	393LA5	LEDLCBDT5/G3/8SC/120-347				93323644	–	LEDT5/LC/G/3/8SC
46759	5AE33	F54W/T5/830/ECO	3000K	93319129	393LA6	LEDLCBDT5/G4/8SC/120-347	19203	436L57	LED26ET5/G/4/830	93314792	–	LEDT5/LC/G/4/835XL
46760	5AE34	F54W/T5/835/ECO	3500K	93100293	818FE3	LED25BDT5/G4/835	19221	436L58	LED26ET5/G/4/835	93314792	–	LEDT5/LC/G/4/835XL
46761	5AE35	F54W/T5/841/ECO	4100K	93100294	818FE4	LED25BDT5/G4/840	19227	436L59	LED26ET5/G/4/840	93314794	–	LEDT5/LC/G/4/840XL
46762	5AE36	F54W/T5/850/ECO	5000K	93100295	383XR7	LED25BDT5/G4/850	19348	436L60	LED26ET5/G/4/850	93314796	–	LEDT5/LC/G/4/850XL
46763	5AE37	F54W/T5/865/ECO	6500K	93100295	383XR7	LED25BDT5/G4/850	19348	436L60	LED26ET5/G/4/850	93314796	–	LEDT5/LC/G/4/850XL
68837	40D425	F54T5/XL/835/ECO	3500K	93100293	818FE3	LED25BDT5/G4/835	19221	436L58	LED26ET5/G/4/835	93314792	–	LEDT5/LC/G/4/835XL
71633	2EAG3	F14T5/835/WM/ECO	3500K	93319133	394WX1	LEDLCBDT5/G2/8SC/120-347	34404	55GU32	LED7ET5/G2/835HE	93323646	–	LEDT5/LC/G/2/8SC
71629	2EAF8	F54T5/841/WM/ECO	4100K	93100294	818FE4	LED25BDT5/G4/840	19227	436L59	LED26ET5/G/4/840	93314794	–	LEDT5/LC/G/4/840XL
62022	6TWG5	F54T5/47W/841/ECO	4100K	93100294	818FE4	LED25BDT5/G4/840	19227	436L59	LED26ET5/G/4/840	93314794	–	LEDT5/LC/G/4/840XL
10059	2V235	F8T5/CW	4100K									
10086	2V806	F13T5/CW	4100K									
81547	1PDD7	F28W/T5/835/ECO/CVG	3500K									
48458	5TB64	F54T5/841/HO/ECO/CVG	4100K	93155904	818FG5	LED25BDT5/G4/840/CVG						
80311	1TGY9	F54T5/850/HO/ECO/CVG	5000K	93155905	818FG6	LED25BDT5/G4/850/CVG						

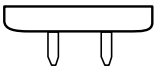
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T8 (1" diameter) Medium Bi-Base (G13)



T12 (1-1/2" Diameter) Medium Bi-Pin Base (G13)



Med BiPin G13

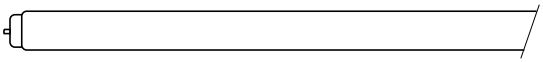
T8 Linear Fluorescent

T8 Linear Fluorescent Medium Bi-Pin (G13)				Ballast Bypass (Type B) LED Tube			Ballast Compatible (Type A) LED Tube			Remote Driver (Type C) LED Tube		
Order Code	Grainger	Description	Color Temp.	Order Code	Grainger	Description	Order Code	Grainger	Description	Order Code	Grainger	Description
45741	6XT95	F17T8/SP30/ECO	3000K	93313567	847V64	LEDLCBDT8/G2/8SC/120-347	35775	246N16	LED8ET8/G/2/830	93322418	416FX0	LEDT8/LC/G/2/8SC
45743	6XT97	F17T8/SP35/ECO	3500K	39560	55GU01	LED9BDT8/G2/835	35776	246N17	LED8ET8/G/2/835	93322418	416FX0	LEDT8/LC/G/2/8SC
45748	6XT99	F17T8/SP41/ECO	4100K	39561	55GU02	LED9BDT8/G2/840	35778	246N18	LED8ET8/G/2/840	93322418	416FX0	LEDT8/LC/G/2/8SC
45754	6XV04	F25T8/SP35/ECO	3500K	39547	55GT96	LED12BDT8/G3/835	35784	246N13	LED11ET8/G/3/835	93322422	-	LEDT8/LC/G/3/8SC
45756	6XV06	F25T8/SP41/ECO	4100K	39554	55GT97	LED12BDT8/G3/840	35788	246N14	LED11ET8/G/3/840	93322422	-	LEDT8/LC/G/3/8SC
68850	4PL14	F32T8/SPX30/ECO2	3000K	39493	494G94	LED14BDT8/G4/830	34283	467W17	LED14ET8/G/4/830	34211	55GU35	LEDT8/LC/G/4/830
68851	4PL15	F32T8/SPX35/ECO2	3500K	39494	494G95	LED14BDT8/G4/835	34289	467W18	LED14ET8/G/4/835	93314798	416FX1	LEDT8/LC/G/4/835XL
68852	4PL16	F32T8/SPX41/ECO2	4100K	39498	494G96	LED14BDT8/G4/840	34291	467W19	LED14ET8/G/4/840	93314800	896P13	LEDT8/LC/G/4/840XL
68853	36H776	F32T8/SPX50/ECO2	5000K	39519	55GT94	LED14BDT8/G4/850	34300	467W20	LED14ET8/G/4/850	93314802	416FW9	LEDT8/LC/G/4/850XL
66342	3JJ79	F32T8/SPX65/ECO2	6500K	39519	55GT94	LED14BDT8/G4/850	34300	467W20	LED14ET8/G/4/850	93314802	416FW9	LEDT8/LC/G/4/850XL
72129	2ETR7	F32T8/25W/SPX35/ECO	3500K	93117213	55XC96	LED11BDT8/G4/835	93107391	55GT87	LED11ET8/G/4/835	93314798	416FX1	LEDT8/LC/G/4/835XL
72130	2ETR8	F32T8/25W/SPX41/ECO	4100K	93117214	55XC97	LED11BDT8/G4/840	93107392	55GT88	LED11ET8/G/4/840	93314800	896P13	LEDT8/LC/G/4/840XL
72131	2ETR9	F32T8/25W/SPX50/ECO	5000K	93117215	55XC98	LED11BDT8/G4/850	93107393	55GT89	LED11ET8/G/4/850	93314802	416FW9	LEDT8/LC/G/4/850XL
72864	2ETU2	F28T8/XL/SPX35/ECO	3500K	93117213	55XC96	LED11BDT8/G4/835	93107391	55GT87	LED11ET8/G/4/835	93314798	416FX1	LEDT8/LC/G/4/835XL
72866	2ETU3	F28T8/XL/SPX41/ECO	4100K	93117214	55XC97	LED11BDT8/G4/840	93107392	55GT88	LED11ET8/G/4/840	93314800	896P13	LEDT8/LC/G/4/840XL
72867	2ETU4	F28T8/XL/SPX50/ECO	5000K	93117215	55XC98	LED11BDT8/G4/850	93107393	55GT89	LED11ET8/G/4/850	93314802	416FW9	LEDT8/LC/G/4/850XL
10326	3CA62	F32T8/XL/SPX35/HL/ECO	3500K	39494	494G95	LED14BDT8/G4/835	34289	467W18	LED14ET8/G/4/835	93314798	416FX1	LEDT8/LC/G/4/835XL
10322	3CA64	F32T8/XL/SPX41/HL/ECO	4100K	39498	494G96	LED14BDT8/G4/840	34291	467W19	LED14ET8/G/4/840	93314800	896P13	LEDT8/LC/G/4/840XL
42556	4ZY40	F32T8/XL/SPX50/HL/ECO	5000K	39519	55GT94	LED14BDT8/G4/850	34300	467W20	LED14ET8/G/4/850	93314802	416FW9	LEDT8/LC/G/4/850XL
72118	2ETT8	F31T8/SPX35/U/ECO	3500K	93320487	408WF7	LED13BDT8/U/U6/8SC/120-347				28084	246N28	LED14T8/U/835
72119	2ETT9	F31T8/SPX41/U/ECO	4100K	93320487	408WF7	LED13BDT8/U/U6/8SC/120-347				28164	246N29	LED14T8/U/840
28145	4HY84	F32T8/SP30/U6/ECO	3000K	93320487	408WF7	LED13BDT8/U/U6/8SC/120-347	43120	246N06	LED13ET8/U6/830	43131	–	LED15T8/G/U6/830
28149	4HY85	F32T8/SP35/U6/ECO	3500K	93133050	61KT12	LED13BDT8/U6/835	43125	246N07	LED13ET8/U6/835	43135	–	LED15T8/G/U6/835
28152	4HY86	F32T8/SP41/U6/ECO	4100K	93133051	61KT13	LED13BDT8/U6/840	43129	48UV48	LED13ET8/U6/840	43143	55EM32	LED15T8/G/U6/840
72112	2ETT2	F32T8/SPX35/U6/ECO	3500K	93133050	61KT12	LED13BDT8/U6/835	43125	246N07	LED13ET8/U6/835	43135	–	LED15T8/G/U6/835
72113	2ETT3	F32T8/SPX41/U6/ECO	4100K	93133051	61KT13	LED13BDT8/U6/840	43129	48UV48	LED13ET8/U6/840	43143	55EM32	LED15T8/G/U6/840
41126	5XN97	F32T8SPX35ECOCVG	3500K	93154588	818FD3	LED16BDT8/G4/835XL/CVG	93135946	61KJ86	LED18ET8/G/4/835CVG			
41127	5XN98	F32T8SPX41ECOCVG	4100K	93154589	818FD4	LED16BDT8/G4/840XL/CVG	93135947	61KJ87	LED18ET8/G/4/840CVG			
15971	4ZY43	F32T8SPX50ECOCVG	5000K	93154586	818FD5	LED16BDT8/G4/850XL/CVG	93135948	61KJ88	LED18ET8/G/4/850CVG			
94843	4ZY42	F32T8SPX65ECOCVG	6500K	93154586	818FD5	LED16BDT8/G4/850XL/CVG	93135948	61KJ88	LED18ET8/G/4/850CVG			

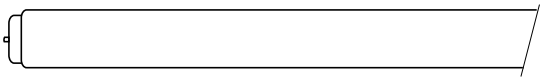
T12 Linear Fluorescent

T12 Linear Fluorescent Medium Bi-Pin (G13)				Ballast Bypass (Type B) LED Tube			Ballast Compatible (Type A) LED Tube			Remote Driver (Type C) LED Tube		
Order Code	Grainger	Description	Color Temp.	Order Code	Grainger	Description	Order Code	Grainger	Description	Order Code	Grainger	Description
66474	24W596	F34CX41/WM/ECO	4100K	93117214	55XC97	LED11BDT8/G4/840	93107392	55GT88	LED11ET8/G/4/840	93314800	896P13	LEDT8/LC/G/4/840XL
80096	6NB36	F40C50/ECO	5000K	93117215	55XC98	LED11BDT8/G4/850	93107393	55GT89	LED11ET8/G/4/850	93314802	416FW9	LEDT8/LC/G/4/850XL
80097	6NB37	F40DX/ECO	6500K	93117215	55XC98	LED11BDT8/G4/850	93107393	55GT89	LED11ET8/G/4/850	93314802	416FW9	LEDT8/LC/G/4/850XL
80045	6NB14	F20T12/CW/ECO	4100K	39561	55GU02	LED9BDT8/G2/840	35778	246N18	LED8ET8/G/2/840	93322418	416FX0	LEDT8/LC/G/2/8SC
80047	6NB15	F20T12/D/ECO	6500K	39563	55GU03	LED9BDT8/G2/850	35779	246N19	LED8ET8/G/2/850	93322418	416FX0	LEDT8/LC/G/2/8SC

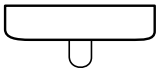
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T8 (1" diameter) Single Pin Base (Fa8)



T12 (1-1/2" Diameter) Single Pin Base (Fa8)



Single Pin
Fa8

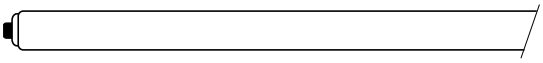
T8 Linear Fluorescent

T8 Linear Fluorescent Single Pin (Fa8)				Ballast Bypass (Type B) LED Tube			Ballast Compatible (Type A) LED Tube			Remote Driver (Type C) LED Tube		
Order Code	Grainger	Description	Color Temp.	Order Code	Grainger	Description	Order Code	Grainger	Description	Order Code	Grainger	Description
68869	36H783	F96T8/XL/SPX35/2	3500K	93319020	394WU8	LED42BDT8/G8/Fa8/8SC/120-347				62327	–	LED36T8/G/8/835
68870	36H784	F96T8/XL/SPX41/2	4100K	93319020	394WU8	LED42BDT8/G8/Fa8/8SC/120-347				62329	55EM35	LED36T8/G/8/840
68871	36H785	F96T8/XL/SPX50/2	5000K	93319020	394WU8	LED42BDT8/G8/Fa8/8SC/120-347				62349	289Y62	LED36T8/G/8/850
15123	–	F96T8/XLSPX41WMP	4100K	93319020	394WU8	LED42BDT8/G8/Fa8/8SC/120-347				62329	55EM35	LED36T8/G/8/840

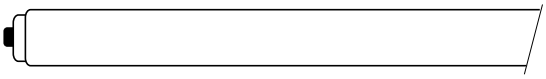
T12 Linear Fluorescent

T12 Linear Fluorescent Single Pin (Fa8)				Ballast Bypass (Type B) LED Tube			Ballast Compatible (Type A) LED Tube			Remote Driver (Type C) LED Tube		
Order Code	Grainger	Description	Color Temp.	Order Code	Grainger	Description	Order Code	Grainger	Description	Order Code	Grainger	Description
68052	46T417	F96T12/CW/C/WM	4100K	93319020	394WU8	LED42BDT8/G8/Fa8/8SC/120-347				62329	55EM35	LED36T8/G/8/840
66858	24W601	F96T12XL/HL41/WM	4100K	93319020	394WU8	LED42BDT8/G8/Fa8/8SC/120-347				62329	55EM35	LED36T8/G/8/840
14652	3JK14	F96T12/DX	6500K	93319020	394WU8	LED42BDT8/G8/Fa8/8SC/120-347				62349	289Y62	LED36T8/G/8/850

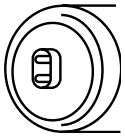
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T8 (1" diameter) Recessed Double Contact Base (R17d)



T12 (1-1/2" Diameter) Recessed Double Contact Base (R17d)



Recessed Double Contact R17d

T8 Linear Fluorescent

T8 Linear Fluorescent Recessed Double Contact (R17d)				Ballast Bypass (Type B) LED Tube		
Order Code	Grainger	Description	Color Temp.	Order Code	Grainger	Description
12533	2F954	F96T8/SPX35/HO	3500K	93319022	394WU7	LED42BDT8/G8/R17d/8SC/120-347
12534	2F956	F96T8/SPX41/HO	4100K	93319022	394WU7	LED42BDT8/G8/R17d/8SC/120-347
12535	2F958	F96T8/SPX50/HO	5000K	93319022	394WU7	LED42BDT8/G8/R17d/8SC/120-347

T12 Linear Fluorescent

T12 Linear Fluorescent (Recessed Double Contact (R17d)				Ballast Bypass (Type B) LED Tube		
Order Code	Grainger	Description	Color Temp.	Order Code	Grainger	Description
10773	3V443	F48T12/CW/HO	4100K	93319032	421YH0	LED18BDT8/G4/R17d/8SC/120-347
10778	4V924	F48T12/D/HO	6500K	93319032	421YH0	LED18BDT8/G4/R17d/8SC/120-347
23075	4V476	F60T12/CW/HO 15PK	4100K	93319030	421YH1	LED24BDT8/G5/R17d/8SC/120-347
23077	4V931	F60T12/D/HO 15PK	6500K	93319030	421YH1	LED24BDT8/G5/R17d/8SC/120-347
13697	3V438	F72T12/CW/HO 15PK	4100K	93319026	421YH3	LED30BDT8/G6/R17d/8SC/120-347
13699	4V444	F72T12/D/HO 15PK	6500K	93319026	421YH3	LED30BDT8/G6/R17d/8SC/120-347
13766	4V445	F84T12/CW/HO 15PK	4100K	93319024	421YH4	LED35BDT8/G7/R17d/8SC/120-347
13767	4V446	F84T12/D/HO 15PK	6500K	93319024	421YH4	LED35BDT8/G7/R17d/8SC/120-347
66862	24W605	F96T12/HL41/HO/WM	4100K	93319022	394WU7	LED42BDT8/G8/R17d/8SC/120-347
11918	2F043	F96T12/CW/HO/CT	4100K	93319022	394WU7	LED42BDT8/G8/R17d/8SC/120-347
11919	2F045	F96T12/D/HO/CT	6500K	93319022	394WU7	LED42BDT8/G8/R17d/8SC/120-347

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LED Lamps - Type A Plug-ins

Type A LED plug-in lamps are direct replacements for pin-based compact fluorescent lamps. These lamps operate from CFL ballasts. Horizontal and vertical orientation lamps are offered in order to minimize energy consumption and improve fixture efficiency. Choose the lamp orientation that suits the application.

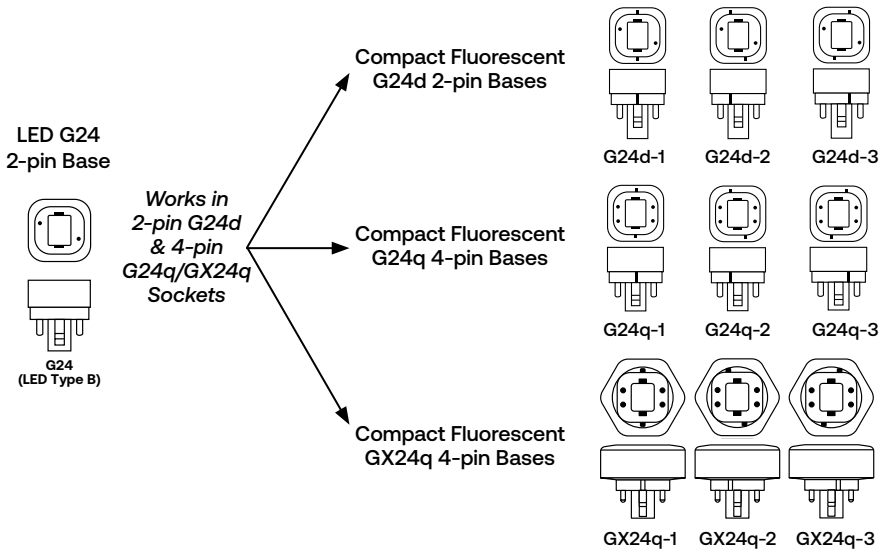


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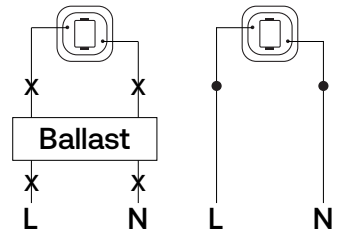
LED Lamps – Type B Plug-ins

Type B LED plug-in lamps offer the opportunity to replace pin-based compact fluorescent lamps and eliminate costs related to the ballasts. Type B lamps operate from mains voltage. The fixture is re-wired to bypass the ballast. Horizontal and vertical orientation lamps are offered in order to minimize energy consumption and improve fixture efficiency. Choose the lamp orientation that suits the application.

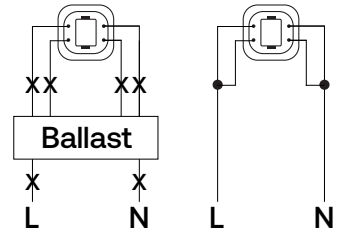
Type B LED plug-in lamps can be used in a variety of compact fluorescent sockets. By re-wiring the socket and eliminating concerns related to ballast compatibility, a single lamp can fit and operate in a wider variety of sockets. Type B LED plug-in lamp bases do not have exclusionary features related to specific wattages like CFL lamps do. A 2-pin G24 lamp can fit in 2-pin G24d or 4-pin G24q/GX24q sockets as shown below.

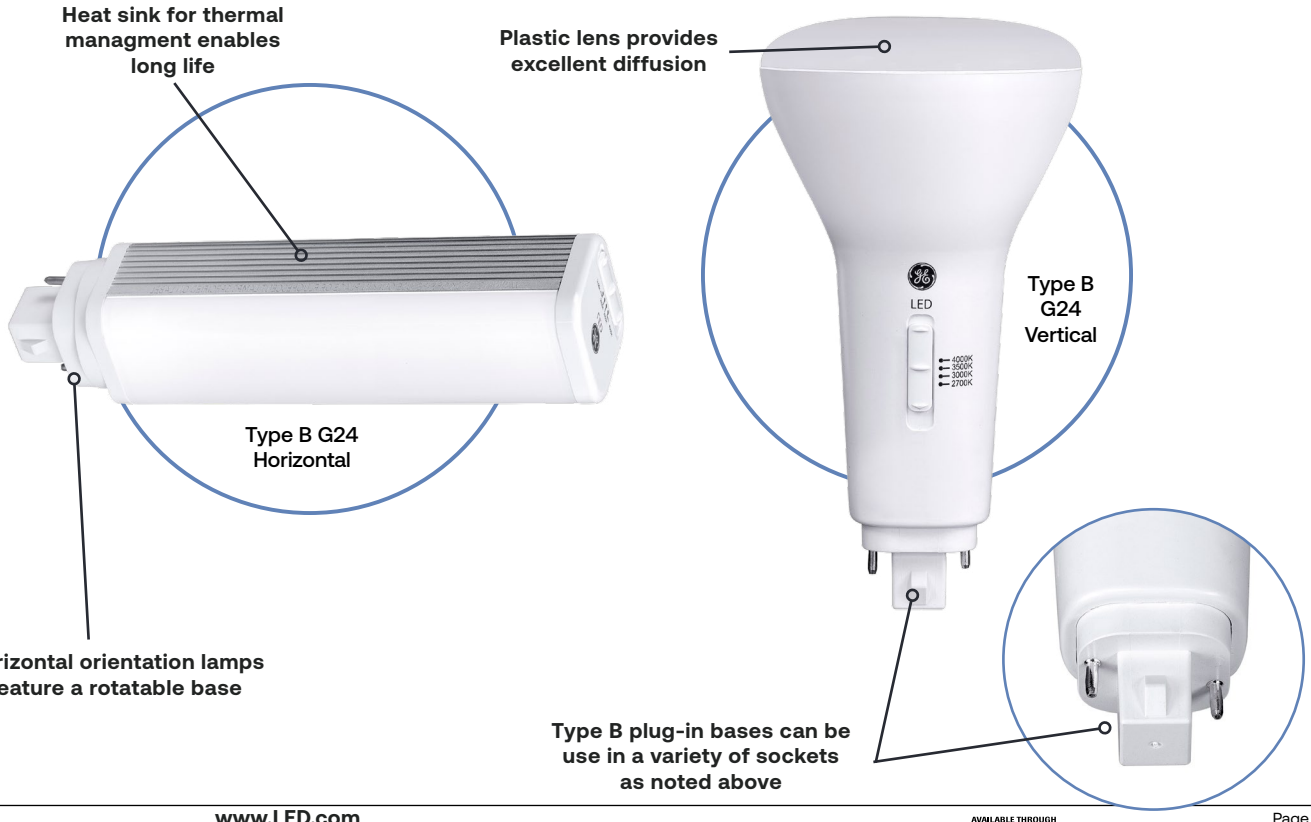


Wiring Diagram for G24d 2-pin Sockets



Wiring Diagram for G24q/GX24q 4-pin Sockets





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LED Lamps - Type A+B Plug-ins

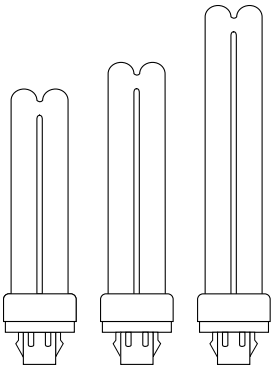
Dual Mode Type A+B LED plug-in lamps are a combination of Type A lamps which are direct replacements for pin-based compact fluorescent lamps and Type B lamps that replace pin-based compact fluorescent lamps and eliminate costs related to the ballasts. Type A lamps operate from CFL ballasts. Type B lamps operate from mains voltage, and the fixture is re-wired to bypass the ballast.

Horizontal and vertical orientation lamps are offered in order to minimize energy consumption and improve fixture efficiency. They feature a rotatable head that allows the lamps to be used in both vertical and horzontal applications and a rotatable and extendable neck which allows the lamps to be positioned for horizontal fixture applications.

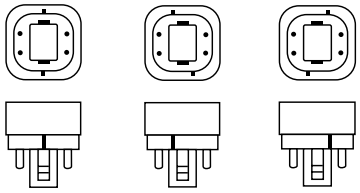
Omnidirectional lamps allow the lamps to be used in applications where uniform light is needed.



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F13DBX G24q-1 F18DBX G24q-2 F26DBX G24q-3



G24q-1 G24q-2 G24q-3

LED Lamp Catalog Logic Notes:

- **H** means a lamp with directional output designed for Horizontal applications
- **V** means a lamp with directional output designed for Vertical applications
- **H-V** means a lamp with directional output and a rotating head, designed for Horizontal or Vertical applications
- **O** means a lamp with omnidirectional output

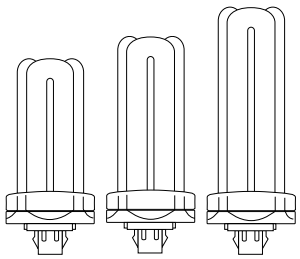
Double Biax® Compact Fluorescent (4-pin)

4-Pin Base: G24q-1				Ballast Bypass (Type B) LED Lamp			Ballast Compatible (Type A) LED Lamp			Dual Mode (Type A+B) LED Lamp		
Order Code	Grainger	Description	Color Temp	Order Code	Grainger	Description	Order Code	Grainger	Description	Order Code	Grainger	Description
97594	1PGW2	F13DBX/827/ECO4P	2700K	93300068	801W84	LED8BG24-O/827-4PK	93300089	806TU4	LED9G24q-V/8SC-4PK	93326623	-	LED9ABG24q-O/8SC
							33994	460U53	LED9G24Q-H/827			
97595	1PGW3	F13DBX/830/ECO4P	3000K	93300069	801W85	LED8BG24-O/830-4PK	93300089	806TU4	LED9G24q-V/8SC-4PK	93326623	-	LED9ABG24q-O/8SC
							33997	460U54	LED9G24Q-H/830			
97596	1PGW4	F13DBX/835/ECO4P	3500K	93300080	801W86	LED8BG24-O/835-4PK	93300089	806TU4	LED9G24q-V/8SC-4PK	93326623	-	LED9ABG24q-O/8SC
							33998	460U55	LED9G24Q-H/835			
97597	1PGW5	F13DBX/841/ECO4P	4100K	93300081	801W87	LED8BG24-O/840-4PK	93300089	806TU4	LED9G24q-V/8SC-4PK	93326623	-	LED9ABG24q-O/8SC
							33999	460U56	LED9G24Q-H/840			

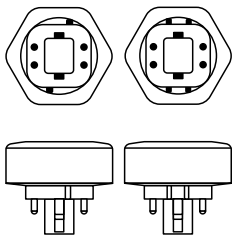
4-Pin Base: G24q-2				Ballast Bypass (Type B) LED Lamp			Ballast Compatible (Type A) LED Lamp			Dual Mode (Type A+B) LED Lamp		
Order Code	Grainger	Description	Color Temp	Order Code	Grainger	Description	Order Code	Grainger	Description	Order Code	Grainger	Description
97598	1PGX1	F18DBX/827/ECO4P	2700K	93300082	801W88	LED10BG24-O/827-4PK	93300089	806TU4	LED9G24q-V/8SC-4PK	93326623	-	LED9ABG24q-O/8SC
							33994	460U53	LED9G24Q-H/827			
97599	1PGX2	F18DBX/830/ECO4P	3000K	93300083	801W89	LED10BG24-O/830-4PK	93300089	806TU4	LED9G24q-V/8SC-4PK	93326623	-	LED9ABG24q-O/8SC
							33997	460U54	LED9G24Q-H/830			
97600	1PGX3	F18DBX/835/ECO4P	3500K	93300084	801W90	LED10BG24-O/835-4PK	93300089	806TU4	LED9G24q-V/8SC-4PK	93326623	-	LED9ABG24q-O/8SC
							33998	460U55	LED9G24Q-H/835			
97601	1PGX4	F18DBX/841/ECO4P	4100K	93300086	801W92	LED10BG24-O/840-4PK	93300089	806TU4	LED9G24q-V/8SC-4PK	93326623	-	LED9ABG24q-O/8SC
							33999	460U56	LED9G24Q-H/840			

4-Pin Base: G24q-3				Ballast Bypass (Type B) LED Lamp			Ballast Compatible (Type A) LED Lamp			Dual Mode (Type A+B) LED Lamp		
Order Code	Grainger	Description	Color Temp	Order Code	Grainger	Description	Order Code	Grainger	Description	Order Code	Grainger	Description
97610	1PGY4	F26DBX/827/ECO4P	2700K	93300088	801W93	LED11BG24-V/8SC/120-347-4PK	93300089	806TU4	LED9G24q-V/8SC-4PK	93325074	-	LED9ABG24q-H-V/8SC
				93300087	801W91	LED11BG24-H/8SC/120-347-4PK	33994	460U53	LED9G24Q-H/827			
97611	1PGY5	F26DBX/830/ECO4P	3000K	93300088	801W93	LED11BG24-V/8SC/120-347-4PK	93300089	806TU4	LED9G24q-V/8SC-4PK	93325074	-	LED9ABG24q-H-V/8SC
				93300087	801W91	LED11BG24-H/8SC/120-347-4PK	33997	460U54	LED9G24Q-H/830			
97612	1PGY6	F26DBX/835/ECO4P	3500K	93300088	801W93	LED11BG24-V/8SC/120-347-4PK	93300089	806TU4	LED9G24q-V/8SC-4PK	93325074	-	LED9ABG24q-H-V/8SC
				93300087	801W91	LED11BG24-H/8SC/120-347-4PK	33998	460U55	LED9G24Q-H/835			
97613	1PGY7	F26DBX/841/ECO4P	4100K	93300088	801W93	LED11BG24-V/8SC/120-347-4PK	93300089	806TU4	LED9G24q-V/8SC-4PK	93325074	-	LED9ABG24q-H-V/8SC
				93300087	801W91	LED11BG24-H/8SC/120-347-4PK	33999	460U56	LED9G24Q-H/840			

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F26TBX GX24q-3 F32TBX GX24q-3 F42TBX GX24q-4



GX24q-3 GX24q-4

LED Lamp Catalog Logic Notes:

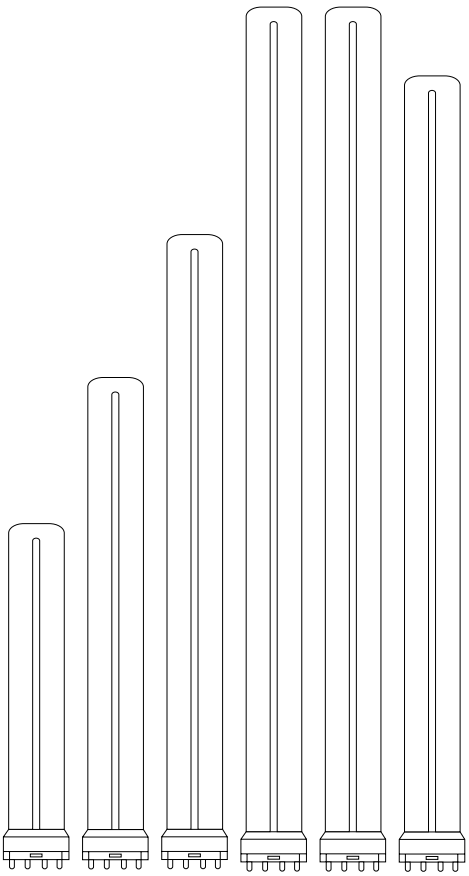
- **H** means a lamp with directional output designed for Horizontal applications
- **V** means a lamp with directional output designed for Vertical applications
- **H-V** means a lamp with directional output and a rotating head, designed for Horizontal or Vertical applications
- **O** means a lamp with omnidirectional output

Triple Biax® Compact Fluorescent (4-pin)

4-Pin Base: GX24q-3				Ballast Bypass (Type B) LED Lamp			Ballast Compatible (Type A) LED Lamp			Dual Mode (Type A+B) LED Lamp		
Order Code	Grainger	Description	Color Temp	Order Code	Grainger	Description	Order Code	Grainger	Description	Order Code	Grainger	Description
97614	1PGZ7	F26TBX/827/A/ECO	2700K	93300088	801W93	LED11BG24-V/8SC/120-347-4PK	93300089	806TU4	LED9G24q-V/8SC-4PK	93325074	-	LED9ABG24q-H-V/8SC
				93300087	801W91	LED11BG24-H/8SC/120-347-4PK	33994	460U53	LED9G24Q-H/827			
97615	1PGZ8	F26TBX/830/A/ECO	3000K	93300088	801W93	LED11BG24-V/8SC/120-347-4PK	93300089	806TU4	LED9G24q-V/8SC-4PK	93325074	-	LED9ABG24q-H-V/8SC
				93300087	801W91	LED11BG24-H/8SC/120-347-4PK	33997	460U54	LED9G24Q-H/830			
97616	1PGZ9	F26TBX/835/A/ECO	3500K	93300088	801W93	LED11BG24-V/8SC/120-347-4PK	93300089	806TU4	LED9G24q-V/8SC-4PK	93325074	-	LED9ABG24q-H-V/8SC
				93300087	801W91	LED11BG24-H/8SC/120-347-4PK	33998	460U55	LED9G24Q-H/835			
97617	1PHA1	F26TBX/841/A/ECO	4100K	93300088	801W93	LED11BG24-V/8SC/120-347-4PK	93300089	806TU4	LED9G24q-V/8SC-4PK	93325074	-	LED9ABG24q-H-V/8SC
				93300087	801W91	LED11BG24-H/8SC/120-347-4PK	33999	460U56	LED9G24Q-H/840			
97629	1PHA2	F32TBX/827/A/ECO	2700K	93312489	830YC4	LED18BG24-V/8SC/120-347	93314806	858UN1	LED19GX24q-V/8SC	93325075	-	LED16ABG24q-H-V/8SC
				93312525	830YC5	LED18BG24-H/8SC/120-347	93314804	852FY9	LED19GX24q-H/8SC			
97630	1PHA3	F32TBX/830/A/ECO	3000K	93312489	830YC4	LED18BG24-V/8SC/120-347	93314806	858UN1	LED19GX24q-V/8SC	93325075	-	LED16ABG24q-H-V/8SC
				93312525	830YC5	LED18BG24-H/8SC/120-347	93314804	852FY9	LED19GX24q-H/8SC			
97631	1PHA4	F32TBX/835/A/ECO	3500K	93312489	830YC4	LED18BG24-V/8SC/120-347	93314806	858UN1	LED19GX24q-V/8SC	93325075	-	LED16ABG24q-H-V/8SC
				93312525	830YC5	LED18BG24-H/8SC/120-347	93314804	852FY9	LED19GX24q-H/8SC			
97632	1PHA5	F32TBX/841/A/ECO	4100K	93312489	830YC4	LED18BG24-V/8SC/120-347	93314806	858UN1	LED19GX24q-V/8SC	93325075	-	LED16ABG24q-H-V/8SC
				93312525	830YC5	LED18BG24-H/8SC/120-347	93314804	852FY9	LED19GX24q-H/8SC			

Base: GX24q-4				Ballast Bypass (Type B) LED Lamp			Ballast Compatible (Type A) LED Lamp			Dual Mode (Type A+B) LED Lamp		
Order Code	Grainger	Description	Color Temp	Order Code	Grainger	Description	Order Code	Grainger	Description	Order Code	Grainger	Description
97633	1PHA6	F42TBX/827/A/ECO	2700K	93312489	830YC4	LED18BG24-V/8SC/120-347	93314806	858UN1	LED19GX24q-V/8SC	93325075	-	LED16ABG24q-H-V/8SC
				93312525	830YC5	LED18BG24-H/8SC/120-347	93314804	852FY9	LED19GX24q-H/8SC			
97634	1PHA7	F42TBX/830/A/ECO	3000K	93312489	830YC4	LED18BG24-V/8SC/120-347	93314806	858UN1	LED19GX24q-V/8SC	93325075	-	LED16ABG24q-H-V/8SC
				93312525	830YC5	LED18BG24-H/8SC/120-347	93314804	852FY9	LED19GX24q-H/8SC			
97635	1PHA8	F42TBX/835/A/ECO	3500K	93312489	830YC4	LED18BG24-V/8SC/120-347	93314806	858UN1	LED19GX24q-V/8SC	93325075	-	LED16ABG24q-H-V/8SC
				93312525	830YC5	LED18BG24-H/8SC/120-347	93314804	852FY9	LED19GX24q-H/8SC			
97636	1PHA9	F42TBX/841/A/ECO	4100K	93312489	830YC4	LED18BG24-V/8SC/120-347	93314806	858UN1	LED19GX24q-V/8SC	93325075	-	LED16ABG24q-H-V/8SC
				93312525	830YC5	LED18BG24-H/8SC/120-347	93314804	852FY9	LED19GX24q-H/8SC			

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F18BX 2G11 F27BX 2G11 F39BX 2G11 F40BX 2G11 F50BX 2G11 F55BX 2G11

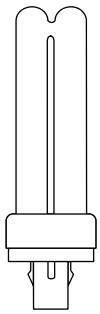


2G11

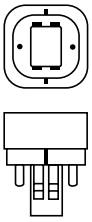
High Lumen Biax® Compact Fluorescent (4-pin)

4-Pin Base: 2G11				Ballast Bypass (Type B) LED Lamp			Ballast Compatible (Type A) LED Lamp		
Order Code	Grainger	Description	Color Temp	Order Code	Grainger	Description	Order Code	Grainger	Description
16053	1E305	F18BX/SPX35 10PK	3500K	93318810	–	LED9B2G11/8SC			
16940	6V033	F18BX/SPX41 10PK	4100K	93318810	–	LED9B2G11/8SC			
28393	6V066	F39BXSPX35RS10PK	3500K	93318822	–	LED16B2G11/8SC			
28458	6V039	F39BXSPX41RS10PK	4100K	93318822	–	LED16B2G11/8SC			
75400	4FFC2	F40/25BX/835/IS/WM	3500K	93318828	818F98	LED17B2G11/8SC	39074	48UV45	LED172G11/835/10
16953	4VC25	F40/30BX/SPX30	3000K	93318828	818F98	LED17B2G11/8SC	39073	48UV44	LED172G11/830/10
16648	4VC26	F40/30BX/SPX35	3500K	93318828	818F98	LED17B2G11/8SC	39074	48UV45	LED172G11/835/10
16954	4VC27	F40/30BX/SPX41	4100K	93318828	818F98	LED17B2G11/8SC	39075	48UV46	LED172G11/840/10
31952	6XV15	F55BX/835	3500K						
31953	6XV16	F55BX/840	4100K						

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F13DBX
GX23-2



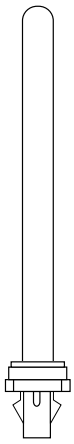
GX23-2

LED Lamp Catalog Logic Notes:

- **H** means a lamp with directional output designed for Horizontal applications
- **V** means a lamp with directional output designed for Vertical applications
- **H-V** means a lamp with directional output and a rotating head, designed for Horizontal or Vertical applications
- **O** means a lamp with omnidirectional output

Double Biax® Compact Fluorescent (2-pin)

2-Pin Base: GX23-2				Ballast Bypass (Type B) LED Lamp		
Order Code	Grainger	Description	Color Temp	Order Code	Grainger	Description
97586	1PGV3	F13DBX23/827/ECO	2700K	93312531	830YC0	LED8BGX23-2-O/827
97588	1PGV5	F13DBX23/835/ECO	3500K	93312543	830YC2	LED8BGX23-2-O/835
97589	1PGV6	F13DBX23/841/ECO	4100K	93312549	830YC3	LED8BGX23-2-O/840



F13BX
GX23

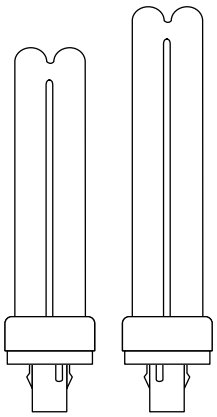


GX23

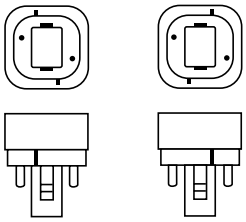
Low Watt Biax® Compact Fluorescent (2-pin)

2-Pin Base: GX23				Ballast Bypass (Type B) LED Lamp			Ballast Compatible (Type A) LED Lamp		
Order Code	Grainger	Description	Color Temp	Order Code	Grainger	Description	Order Code	Grainger	Description
97573	1PGU8	F13BX/827/ECO	2700K	93312495	830YA5	LED5BGX23/827	91404	54EL33	LED5GX23/827
97569	1PGU5	F13BX/835/ECO	3500K	93312507	830YA7	LED5BGX23/835	91407	54EL35	LED5GX23/835
97571	1PGU6	F13BX/841/ECO	4100K	93312513	830YA8	LED5BGX23/840	91408	54EL36	LED5GX23/840

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F18DBX G24d-2 F26DBX G24d-3



G24d-2 G24d-3

LED Lamp Catalog Logic Notes:

- **H** means a lamp with directional output designed for Horizontal applications
- **V** means a lamp with directional output designed for Vertical applications
- **H-V** means a lamp with directional output and a rotating head, designed for Horizontal or Vertical applications
- **O** means a lamp with omnidirectional output

Double Biax® Compact Fluorescent (2-pin)

2-Pin Base: G24d-2				Ballast Bypass (Type B) LED Lamp			Ballast Compatible (Type A) LED Lamp			Dual Mode (Type A+B) LED Lamp		
Order Code	Grainger	Description	Color Temp	Order Code	Grainger	Description	Order Code	Grainger	Description	Order Code	Grainger	Description
97577	1PGW6	F18DBX/827/ECO	2700K	93300088	801W93	LED11BG24-V/8SC/120-347-4PK	93300091	818F96	LED11G24d-V/8SC-4PK	93326621	-	LED9ABG24d-O/8SC
				93300087	801W91	LED11BG24-H/8SC/120-347-4PK	93300090	806TU5	LED11G24d-H/8SC-4PK			
97579	1PGW8	F18DBX/835/ECO	3500K	93300088	801W93	LED11BG24-V/8SC/120-347-4PK	93300091	818F96	LED11G24d-V/8SC-4PK	93326621	-	LED9ABG24d-O/8SC
				93300087	801W91	LED11BG24-H/8SC/120-347-4PK	93300090	806TU5	LED11G24d-H/8SC-4PK			
97580	1PGW9	F18DBX/841/ECO	4100K	93300088	801W93	LED11BG24-V/8SC/120-347-4PK	93300091	818F96	LED11G24d-V/8SC-4PK	93326621	-	LED9ABG24d-O/8SC
				93300087	801W91	LED11BG24-H/8SC/120-347-4PK	93300090	806TU5	LED11G24d-H/8SC-4PK			

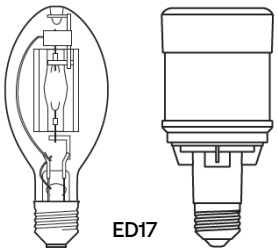
2-Pin Base: G24d-3				Ballast Bypass (Type B) LED Lamp			Ballast Compatible (Type A) LED Lamp			Dual Mode (Type A+B) LED Lamp		
Order Code	Grainger	Description	Color Temp	Order Code	Grainger	Description	Order Code	Grainger	Description	Order Code	Grainger	Description
97606	1PGX9	F26DBX/827/ECO	2700K	93300088	801W93	LED11BG24-V/8SC/120-347-4PK	93300091	818F96	LED11G24d-V/8SC-4PK	93325073	-	LED9ABG24d-H-V/8SC
				93300087	801W91	LED11BG24-H/8SC/120-347-4PK	93300090	806TU5	LED11G24d-H/8SC-4PK			
97608	1PGY2	F26DBX/835/ECO	3500K	93300088	801W93	LED11BG24-V/8SC/120-347-4PK	93300091	818F96	LED11G24d-V/8SC-4PK	93325073	-	LED9ABG24d-H-V/8SC
				93300087	801W91	LED11BG24-H/8SC/120-347-4PK	93300090	806TU5	LED11G24d-H/8SC-4PK			
97609	1PGY3	F26DBX/841/ECO	4100K	93300088	801W93	LED11BG24-V/8SC/120-347-4PK	93300091	818F96	LED11G24d-V/8SC-4PK	93325073	-	LED9ABG24d-H-V/8SC
				93300087	801W91	LED11BG24-H/8SC/120-347-4PK	93300090	806TU5	LED11G24d-H/8SC-4PK			

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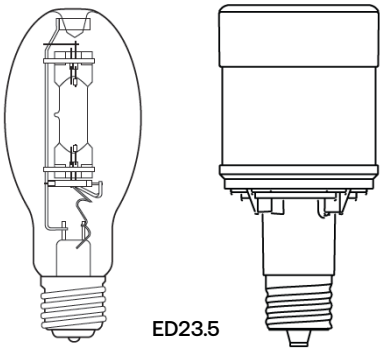
LED Lamps – Type B HID

GE LED Lamps that replace traditional HID lamps are all Type B, which means the fixture is re-wired to bypass the ballast. Type B LED HID lamps offer a lower wattage and longer life alternative to traditional HID technology, and eliminate costs related to the ballasts. GE LED Lamps feature omnidirectional light output, with similar light distribution to traditional HID lamps. GE LED Lamps also adhere to the ANSI length and diameter of traditional HID bulb shapes, ensuring that the lamps will fit into fixtures and effectively utilize existing optics. Active cooling (with fans built into the lamps) is utilized to achieve very high output from compact lamps. NEMA Standard LL 10-2020 provides guidance for LED HID wattage equivalency claims.

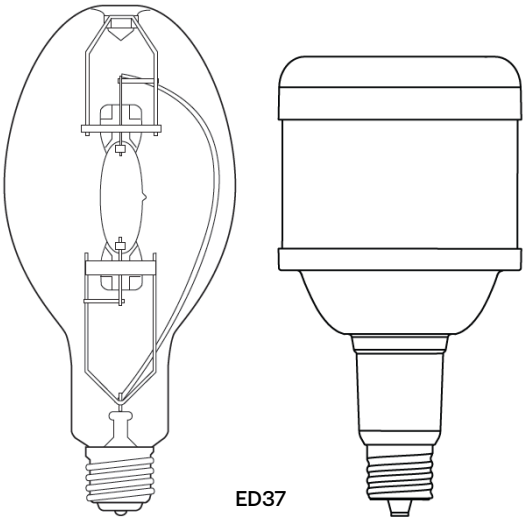
Lamp **Drawings** (not drawn to scale)



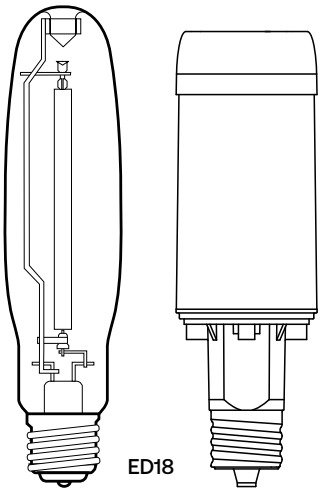
ED17



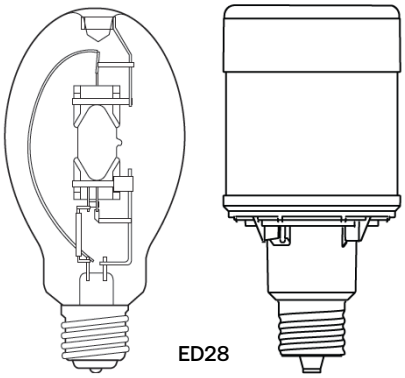
ED23.5



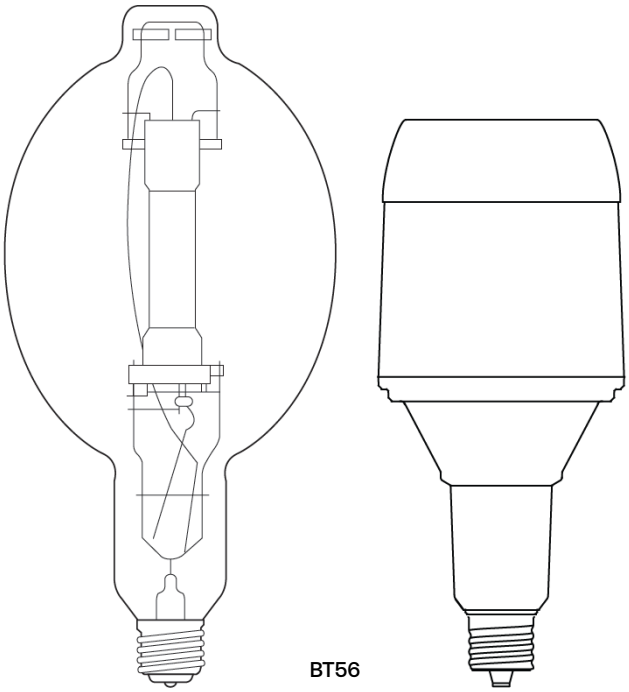
ED37



ED18

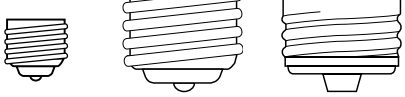


ED28



BT56

Base **Identification** (not drawn to scale)



Med Screw E26

Mog Screw E39

EX39

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NEMA LED HID Wattage Equivalency

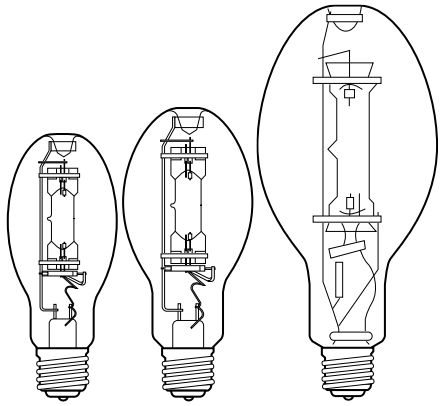
The National Electrical Manufacturers Association (NEMA) has published NEMA LS 20037-2024 (formerly NEMA LL 10-2020) Replacing HID Lamps with LED Lamps: Light Output Equivalency Claims. Current uses this Standard for LED products replacing HID lamps, meeting or exceeding the minimum LED light output for equivalency claims. The LED wattage equivalency varies based on the type of HID lamp being replaced - Metal Halide (MH) or High Pressure Sodium (HPS).

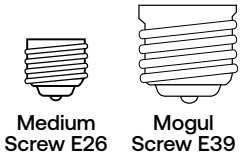
Metal Halide Lamp Wattage (W)	Metal Halide Initial Light Output (lm)	Minimum LED Lamp Initial Light Output (lm)	Current LED Ordinary Location Retrofit Lamps Active Cooling	Current LED Selectable Ordinary Location Retrofit Lamps Active Cooling	Current LED Selectable Ordinary Location Retrofit Lamps Passive Cooling	Current LED Hazardous Location Retrofit Lamps Active Cooling
50	3,200	2,000	LED21ED17	LED/LC/ED17	LED/LC/ED17P	LED21ED17/HAZ
70	5,200	3,000	LED21ED17	LED/LC/ED17	LED/LC/ED17P	LED21ED17/HAZ
100	8,100	5,000	LED35ED17; LED45ED17	LED/LC/ED17		LED35ED17/HAZ; LED45ED17/HAZ
150	12,000	7,500	LED50ED23.5	LED/LC/ED23.5	LED/LC/ED23.5P; LED/LC/ED28P	
175	11,000	7,000	LED45ED17; LED50ED23.5	LED/LC/ED17; LED/LC/ED23.5	LED/LC/ED23.5P; LED/LC/ED28P	
250	19,100	12,000	LED80ED23.5	LED/LC/ED23.5	LED/LC/ED28P	LED80ED23.5/HAZ
320	25,600	16,500	LED115ED28	LED/LC/ED28		
350	28,400	18,000	LED115ED28	LED/LC/ED28		
360	29,400	19,000	LED150ED28; LED120ED18	LED/LC/ED28		LED150ED28/HAZ
400	33,100	21,500	LED150ED28; LED180ED18	LED/LC/ED28; LED/LC/ED37		LED150ED28/HAZ
750	72,300	46,500	LED360ED37	LED/LC/ED37		
1,000	100,280	65,000	LED450BT56; LED470BT56	LED/LC/ED37		
1,500	153,000	99,450	LED520BT56			

HPS Lamp Wattage (W)	HPS Initial Light Output (lm)	Minimum LED Lamp Initial Light Output (lm)	Current LED Ordinary Location Retrofit Lamps Active Cooling	Current LED Selectable Ordinary Location Retrofit Lamps Active Cooling	Current LED Selectable Ordinary Location Retrofit Lamps Passive Cooling	Current LED Hazardous Location Retrofit Lamps Active Cooling
50	4,500	2,500	LED21ED17	LED/LC/ED17	LED/LC/ED17P	LED21ED17/HAZ
70	6,300	4,000	LED35ED17	LED/LC/ED17	LED/LC/ED17P	LED35ED17/HAZ
100	9,500	6,000	LED45ED17; LED50ED23.5	LED/LC/ED17; LED/LC/ED23.5	LED/LC/ED23.5P; LED/LC/ED28P	LED45ED17/HAZ
150	13,000	8,500	LED80ED23.5	LED/LC/ED23.5	LED/LC/ED28P	LED80ED23.5/HAZ
200	19,500	12,500		LED/LC/ED23.5		
250	26,000	17,000	LED115ED28; LED120ED18	LED/LC/ED28		
310	33,200	21,500	LED150ED28	LED/LC/ED28		LED150ED28/HAZ
400	44,000	29,000	LED180ED18; LED270BT56	LED/LC/ED37		
600	66,000	42,500	LED360ED37	LED/LC/ED37		
750	82,500	53,500	LED450BT56	LED/LC/ED37		
1,000	110,000	73,000	LED470BT56; LED520BT56			

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As of June 2024, only Mercury Vapor HID lamps are impacted by legislation. Other HID lamps listed are for reference only





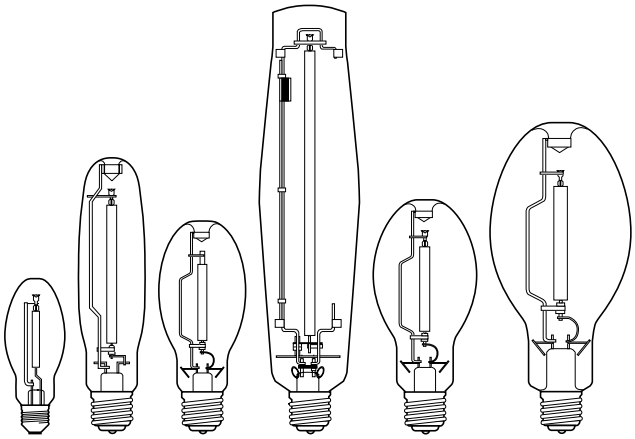
Mercury Vapor Lamps

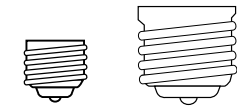
Mercury HID Lamps 100-400 Watts						Ballast Bypass (Type B) LED HID Ordinary Location Active Cooling			Ballast Bypass (Type B) LED HID Ordinary Location Selectable Active Cooling			Ballast Bypass (Type B) LED HID Ordinary Location Selectable Passive Cooling		
Order Code	Grainger	Description	Bulb Shape	Lamp Base	Color Temp.	Order Code	Grainger	Description	Order Code	Grainger	Description	Order Code	Grainger	Description
22575	2V477	HR100DX38	ED23.5	E39	3900K	22679	429U45	LED50ED23.5/740	93303384	801W96	LED/LC/ED17/7SC	93314601	908YX3	LED/LC/ED23.5P/7SC
24062	-	HR175DX39	ED23.5	E39	3900K	22679	429U45	LED50ED23.5/740	93312104	859YF8	LED/LC/ED23.5M/7SC	93314601	908YX3	LED/LC/ED23.5P/7SC
32127	2V449	HR250DX37	ED28	E39	3900K	22635	429U47	LED80ED23.5/740	93312104	859YF8	LED/LC/ED23.5M/7SC	93318804	421YG0	LED/LC/ED28P/7SC
23998	2V358	HR400DX33	ED37	E39	3900K	22611	429U51	LED150ED28/740	93312102	859YF9	LED/LC/ED28/7SC			

End users may choose from a variety of output levels and color temperatures when converting to LED. Lamps certified for use in hazardous locations are also available. Please see the LED HID Spec Sheets or the GE Lamps Catalog for the full list of LED Lamp options.

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As of June 2024, only Mercury Vapor HID lamps are impacted by legislation. Other HID lamps listed are for reference only





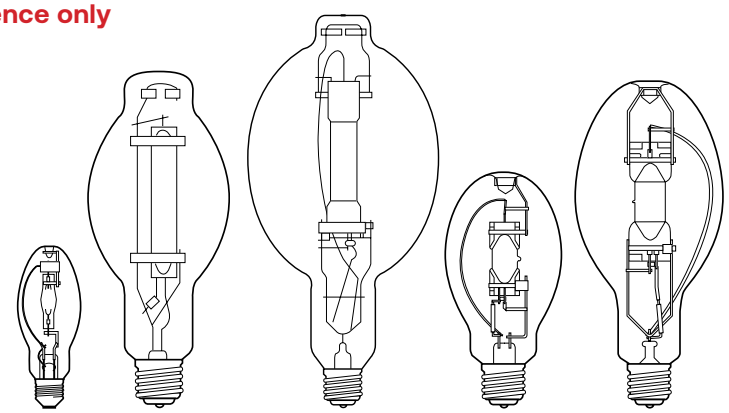
High Pressure Sodium Lamps

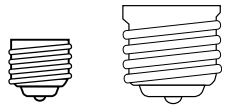
HPS HID Lamps 70-1000 Watts						Ballast Bypass (Type B) LED HID Ordinary Location Active Cooling			Ballast Bypass (Type B) LED HID Ordinary Location Selectable Active Cooling			Ballast Bypass (Type B) LED HID Ordinary Location Selectable Passive Cooling		
Order Code	Grainger	Description	Bulb Shape	Lamp Base	Color Temp.	Order Code	Grainger	Description	Order Code	Grainger	Description	Order Code	Grainger	Description
11339	2V632	LU70/MED/ECO	B17	E26	1900K	22679	429U45	LED50ED23.5/740	93303384	801W96	LED/LC/ED17/7SC	93316026	421YG2	LED/LC/ED17P/7SC/120-347
85368	2VAD4	LU70/H/ECO	ED23.5	E39	1900K	22679	429U45	LED50ED23.5/740	93303384	801W96	LED/LC/ED17/7SC	93314601	908YX3	LED/LC/ED23.5P/7SC
13250	4V604	LU100/MED/ECO	B17	E26	2000K	93148082	818FA5	LED45ED17/740	93303384	801W96	LED/LC/ED17/7SC			
85369	2VAD5	LU100/H/ECO	ED23.5	E39	2000K	22679	429U45	LED50ED23.5/740	93303384	801W96	LED/LC/ED17/7SC	93314601	908YX3	LED/LC/ED23.5P/7SC
13252	2V713	LU150/MED/ECO	B17	E26	2000K	93148082	818FA5	LED45ED17/740	93303384	801W96	LED/LC/ED17/7SC			
85371	2VAD7	LU150/55/H/ECO	ED23.5	E39	2000K	93112196	788VT6	LED80ED23.5/730	93312104	859YF8	LED/LC/ED23.5M/7SC			
85372	3APT4	LU200/H/ECO	ED18	E39	2100K	93320018	421YF5	LED120ED18/730/277-480						
85377	3APT5	LU250/H/ECO	ED18	E39	2100K	93320018	421YF5	LED120ED18/730/277-480						
85379	3APT6	LU400/H/ECO	ED18	E39	2100K	93312096	830Y98	LED180ED18/730						
44058	2V754	LU1000/ECO	E25	E39	2100K									

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Multi-Vapor Metal Halide Lamps

MH HID Lamps 50-1500 Watts						Ballast Bypass (Type B) LED HID Ordinary Location Active Cooling			Ballast Bypass (Type B) LED HID Ordinary Location Selectable Active Cooling			Ballast Bypass (Type B) LED HID Ordinary Location Selectable Passive Cooling		
Order Code	Grainger	Description	Bulb Shape	Lamp Base	Color Temp.	Order Code	Grainger	Description	Order Code	Grainger	Description	Order Code	Grainger	Description
10361	1F398	MXR50/U/MED	BD17	E26	3700K	27729	472Z16	LED21ED17/740	93303384	801W96	LED/LC/ED17/7SC	93316026	421YG2	LED/LC/ED17P/7SC/120-347
22158	6V746	MXR70/U/MED	BD17	E26	3500K	27729	472Z16	LED21ED17/740	93303384	801W96	LED/LC/ED17/7SC	93316026	421YG2	LED/LC/ED17P/7SC/120-347
12590	1E694	MVR70/U/MED	BD17	E26	4000K	27729	472Z16	LED21ED17/740	93303384	801W96	LED/LC/ED17/7SC	93316026	421YG2	LED/LC/ED17P/7SC/120-347
12377	2F942	MXR70/U/MED/O	ED17	E26	3200K	27729	472Z16	LED21ED17/740	93303384	801W96	LED/LC/ED17/7SC	93316026	421YG2	LED/LC/ED17P/7SC/120-347
18680	6V749	MXR100/U/MED	BD17	E26	3200K	93112114	-	LED35ED17/730	93303384	801W96	LED/LC/ED17/7SC			
12652	1E674	MVR100/U/MED	BD17	E26	4000K	27602	472Z18	LED35ED17/740	93303384	801W96	LED/LC/ED17/7SC			
12381	2F944	MXR100/U/MED/O	ED17	E26	3200K	93112114	-	LED35ED17/730	93303384	801W96	LED/LC/ED17/7SC			
12598	1E690	MVR150/U/MED	BD17	E26	4300K	93148082	818FA5	LED45ED17/740	93303384	801W96	LED/LC/ED17/7SC			
45683	6XT93	MXR150/U/MED/O	ED17	E26	3500K	93148082	818FA5	LED45ED17/740	93303384	801W96	LED/LC/ED17/7SC			
18902	6V751	MVR175/U/MED	BD17	E26	4000K	93148082	818FA5	LED45ED17/740	93303384	801W96	LED/LC/ED17/7SC			
47760	4V550	MVR175/U	ED28	E39	4000K	22679	429U45	LED50ED23.5/740	93312104	859YF8	LED/LC/ED23.5M/7SC	93314601	908YX3	LED/LC/ED23.5P/7SC
47761	5V691	MVR175/C/U	ED28	E39	3900K	22679	429U45	LED50ED23.5/740	93312104	859YF8	LED/LC/ED23.5M/7SC	93314601	908YX3	LED/LC/ED23.5P/7SC
42729	2V712	MVR250/U	ED28	E39	4200K	22635	429U47	LED80ED23.5/740	93312104	859YF8	LED/LC/ED23.5M/7SC	93318804	421YG0	LED/LC/ED28P/7SC
78665	5GTN0	MVR250/U/PA	ED28	E39	3900K	22635	429U47	LED80ED23.5/740	93312104	859YF8	LED/LC/ED23.5M/7SC	93318804	421YG0	LED/LC/ED28P/7SC
27501	4WW54	MVR320/VBU/HO/PA	ED28	E39	4000K	22622	429U49	LED115ED28/740	93312102	859YF9	LED/LC/ED28/7SC			
46275	6XV27	MPR320/VBU/XHOPA	ED37	EX39	4000K	22622	429U49	LED115ED28/740	93312102	859YF9	LED/LC/ED28/7SC			
19609	2TJ27	MPR320/C/PA/ED28	ED28	EX39	3700K	22622	429U49	LED115ED28/740	93312102	859YF9	LED/LC/ED28/7SC			
18904	5V658	MVR400/U/ED28	ED28	E39	4000K	22611	429U51	LED150ED28/740	93312102	859YF9	LED/LC/ED28/7SC			
78666	5GTN1	MVR400/U/PA	ED37	E39	4000K	22611	429U51	LED150ED28/740	93312102	859YF9	LED/LC/ED28/7SC			
46271	6XV24	MVR400/VBUED28PA	ED28	E39	4000K	22611	429U51	LED150ED28/740	93312102	859YF9	LED/LC/ED28/7SC			
72885	3APK3	MVR400/HOR/ED28/PA	ED28	E39	4100K	22611	429U51	LED150ED28/740	93312102	859YF9	LED/LC/ED28/7SC			
46273	6XV25	MPR400/VBU/XHOPA	ED37	EX39	4000K	22611	429U51	LED150ED28/740	93312102	859YF9	LED/LC/ED28/7SC			
18708	-	MPR400/VBU/HO/O	ED37	EX39	3400K	22611	429U51	LED150ED28/740	93312102	859YF9	LED/LC/ED28/7SC			
18205	3JK41	MVR1000/U/BT37	BT37	E39	3700K				93311586	859YG0	LED/LC/ED37/740			
41433	5XP29	MPR1000/VBU/HO/O	BT56	EX39	3500K	93096445	493V24	LED450BT56/740	93311586	859YG0	LED/LC/ED37/740			
47326	4V484	MVR1500/U/SPORTS	BT56	E39	4000K	93320138	421YG4	LED520BT56/740/208-277						

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