




TIP

## LED Energy Saving Lighting

At Blue Ribbon Supply, we specialize in providing lighting solutions to help you create dynamic spaces that are both effective and energy efficient. We work closely with our clients to understand their needs and desires so we can deliver the best solutions within any client's budget. Our broad spectrum of experience in lighting replacement offers us the privilege of helping enhance and improve commercial, hospitality and retail properties' lighting projects

EFFICIENCY	LEAST		MOST
BULB TYPE	 INCANDESCENT	 CFL	 LED
LUMENS	ENERGY USE & COST	ENERGY USE & COST	ENERGY USE & COST
450 lumens	<b>40 W</b> \$5.34/yr	<b>10 W</b> \$1.34/yr	<b>5 W</b> \$0.67/yr
800 lumens	<b>60 W</b> \$8.02/yr	<b>13 W</b> \$1.74/yr	<b>10 W</b> \$1.34/yr
1100 lumens	<b>75 W</b> \$10.02/yr	<b>16 W</b> \$2.14/yr	<b>15 W</b> \$2.00/yr
1600 lumens	<b>100 W</b> \$3.36/yr	<b>20 W</b> \$2.67/yr	<b>19 W</b> \$2.54/yr
*RATED LIFE	<b>1 year</b>	<b>10 years</b>	<b>15-25 years</b>

## As you peruse our wide LED offering, here are a few important facts to remember...

### Brightness

An LED bulb's wattage rating doesn't indicate its brightness; its lumens rating does. A 60-watt-equivalent LED bulb (consuming as little as 10 watts) delivers about 800 lumens, roughly the same as a 60-watt incandescent.

### Color

The higher the bulb's color temperature, the cooler its light. A candle glows at a color temperature of 1500 K. LED bulbs marketed as incandescent replacements usually have a color temperature of 2700 K, which is equivalent to typical warm white incandescent. For commercial applications, we highly recommend the use of LED bulbs in the range of 2700-3000 K.

### Dimmability

While most commercial applications do not require dimmable LED bulbs, make sure you buy a bulb verified to work properly with your switches if you have dimmable switches. LED bulbs sold as "dimmable" work acceptably with most newer dimmable switches. The best dim to about 5 percent, though at that level some produce a faint buzzing.

\*Rated Life is based on 2 hours of use per day.



Soft white

Frost

Clear

## LED ENERGY SAVING LIGHTBULBS - STANDARD A-19 SHAPE

Today's LEDs are unequalled in energy efficiency, reliability, life, quality of light and environmental friendliness. All of our LEDs offer up to 90% energy savings over conventional incandescent light bulbs, feature long hour life, lowest cost of ownership, high quality light and are direct replacements for existing lighting. They are also RoHS compliant, mercury free, lead free and have reduced amounts of other hazardous material making them a sustainable solution for the planet. All bulbs feature a standard medium (E26) base and have input voltage of 120 volts.

BULB FINISH	DELIVERED LUMENS	COLOR TEMPERATURE (K)	ENERGY USED (WATTS)	CONVENTIONAL EQUIVALENT	ESTIMATED LIFE	DIMMABLE	PACK	REF. NO.	PART NO.
Soft white	450	2700 K	5.5 W	40 W	10 Years / 11,000 hrs.	no	4/6 pk	A450/827/10KLED	15493
	800	2700 K	9 W	60 W	10 Years / 11,000 hrs.	no	4/6 pk	A800/827/10KLED	15494
	1500	2700 K	14.5 W	100 W	10 Years / 11,000 hrs.	no	4/6 pk	A1600/827/10KLED	15495
Frost	450	2700 K	3.6 W	40 W	18.3 Years / 20,000 hrs.	no	12/2 pk	A1940/LED/2	15496
	800	2700 K	8.8 W	60 W	18.3 Years / 20,000 hrs.	no	4 pk	OM60DM/927CA	15497
Clear	450	2700 K	3.6 W	40 W	18.3 Years / 20,000 hrs.	no	12/2 pk	A1940/CL/LED/2	15498
	800	2700 K	7 W	60 W	18.3 Years / 20,000 hrs.	no	12/2 pk	A1940/CL/LED/2	15499

**LED ENERGY SAVINGS RECESSED LIGHTING LAMPS**

LED lamps are an energy-saving alternative to traditional incandescent bulbs used in recessed lighting fixtures. LED bulbs like this are a light-emitting diode (LED) which is a solid-state semiconductor that emits light when a current passes through it. LEDs have an exceptionally long lifespan. They can last up to three times longer than compact fluorescent (CFL) bulbs, and 20 times longer than traditional incandescent. Each bulb has a minimal up-front cost, significantly reduces energy consumption and helps reduce the labor cost involved in frequent bulb replacement and produces full brightness with relatively cool running performance. RoHS compliant and 100% mercury free, they have no filament or moving parts. LEDs generate almost no heat or UV rays, which can help reduce air conditioning costs and help keep fabrics and furnishings from fading.



BULB SHAPE / FINISH	DELIVERED LUMENS	BASE	COLOR TEMPERATURE (K)	ENERGY USED (WATTS)	CONVENTIONAL EQUIVALENT	ESTIMATED LIFE	DIMMABLE	PACK	REF. NO.	PART NO.
Bar / Cool White	600	GX23	4000 K	6 W	9-13 W	25,000 hrs.	no	12	BPPL13/H/840/LED	16503
Cube / Cool White	800	GX24Q3	4100	11.3 W	26 W	25,000 hrs.	No	12	PL26E/V/841/LED	16502
Bar / Cool White	1100	GX24Q3	4100	12 W	26 W	25,000 hours	No	12	PL26E/H/841/LED	16501

**LED ENERGY SAVING PLUG & PLAY TUBE**

Easily convert existing fluorescent fixtures to LED technology with this dependable, flicker-free, instant-on LED Plug and Play Lamp. No replacement of ballast, installation of LED driver or removal of old ballast is required. The Plug and Play tube features a 180-degree rotating endcap for adjusting light direction and produces a similar light output (1700 lumens) to a standard 4-foot fluorescent lamp. It uses only 14 watts of electricity - 56% less energy than a standard 4-foot fluorescent lamp! Best of all, these lamps are also RoHS compliant, 100% mercury free, and have reduced amounts of other hazardous materials making them an excellent sustainable choice for lighting offices, workshops, breakrooms, etc.



BULB SHAPE / FINISH	DELIVERED LUMENS	BASE	COLOR TEMPERATURE (K)	ENERGY USED (WATTS)	CONVENTIONAL EQUIVALENT	ESTIMATED LIFE	DIMMABLE	PACK	REF. NO.	PART NO.
Tube / Cool White	1700	GU13	4100 K	17 W	40 W	45.7 Years / 50,000 hrs.	no	3/4 pk	T48/841/LED	15512

**LED ENERGY SAVING FLAME TIP CHANDELIER LIGHTS**

Special accent LEDs like our Flame Tip Chandelier Lights are the perfect solution for general ornamental lighting requirements. These bulbs are comprised of clusters of LEDs that provide a warm low level of ambient light. They add an attractive, decorative accent to chandeliers, wall sconces or other decorative lighting fixtures to complete the perfect room. Our Flame Tip Chandelier Lights provide extreme energy savings over conventional incandescent lights and add a little interest and sparkle to any room. They are also RoHS compliant, mercury free, and have reduced amounts of other hazardous materials making them a sustainable solution for the planet.



BULB SHAPE / FINISH	DELIVERED LUMENS	BASE	COLOR TEMPERATURE (K)	ENERGY USED (WATTS)	CONVENTIONAL EQUIVALENT	ESTIMATED LIFE	DIMMABLE	PACK	REF. NO.	PART NO.
Flame Tip / Clear	300	Candelabra (E12)	2700 K	3.8 W	40 W	13.7 Years / 15,000 hrs.	yes	24/2 pk	BPCFC40/827/LED/2	15511



**TIP**

**Lighting Solutions**

Although we offer many conventional lighting solutions, we also offer a wide selection of LED lighting solutions to help you move from less efficient incandescent and fluorescent light sources to some of the very best LED lighting products available today. In the selection offered, we have provided details that enable you to compare similar bulbs without relying on watts as the sole indicator of performance. These include details on each bulb's brightness (measured in lumens); yearly cost (based on 3 hours of daily use); life expectancy (measured in years); light appearance, or color temperature (measured in Kelvins, or K); and energy consumed (measured in watts).

## LED ENERGY SAVING TRACK, FLOOD & SPOT LAMPS

Accent LEDs like these track, flood and spot lamps are the perfect solution for decorative lighting needs. The bulbs are clusters of LEDs that provide a warm low level of ambient light. They wash walls in low level light to complete the perfect room. All of our track flood and spot LEDs offer up to 90% energy savings over conventional incandescent light bulbs, up to a 25,000 hour life, lowest cost of ownership, high quality light and are a direct replacement for existing lighting. They are also RoHS compliant, mercury free, lead free and have reduced amounts of other hazardous materials making them an excellent sustainable solution. All bulbs have input voltage of 120 volts.



BULB FINISH	DELIVERED LUMENS	BEAM SPREAD	BASE	COLOR TEMPERATURE (K)	ENERGY USED (WATTS)	CONVENTIONAL EQUIVALENT	ESTIMATED LIFE	DIMMABLE	PACK	REF. NO.	PART NO.
<b>Track Lights</b>											
MR16	500	42"	GU10	3000	6 W	50 W	22.8 Years / 25,000 hours	yes	12	BPMR16/ GU10/500/LED	15510
MR16	500	38"	GU5.3	3000	8.5 W	50 W	22.8 Years / 25,000 hours	yes	12	BPEXN/500/ LED	15509
<b>15500 Indoor Flood / Spot Lamp 15501</b>											
BR20	450	110"	medium (E26)	2700 K	8 W	45 W	22.8 Years / 25,000 hours	yes	6/2	R20/DM/ LEDG2/2	15500
BR30	650	110"	medium (E26)	2700 K	10.5 W	65 W	22.8 Years / 25,000 hours	yes	6/2	BR30/DM/ LEDG3/2	15501
BR30	650	110"	medium (E26)	2700 K	8.5 W	65 W	9.1 Years / 10,000 hours	no	6/2	BR30/ 10KLED/3	15502
<b>Outdoor Flood / Spot Lamp</b>											
PAR20 / SILVER	450	38"	medium (E26)	3000 K	7 W	50 W	22.8 Years / 25,000 hours	yes	6/2	PAR20/830/ LEDG11/2	15506
PAR30 / SILVER	750	38"	medium (E26)	3000 K	10.5 W	75 W	22.8 Years / 25,000 hours	yes	6/2	PAR30L/830/ LEDG11/2	15505
PAR38 / SILVER	930	38"	medium (E26)	3000 K	14 W	90 W	22.8 Years / 25,000 hours	yes	6/2	PAR38/830/ LEDG11/2	15508

## LED ENERGY SAVING BATH & VANITY GLOBE LAMPS

LED globe lamps are an energy-saving alternative to traditional incandescent bulbs used in bath and vanity lighting fixtures. These high-efficiency LED bulbs have a minimal up-front cost, significantly reduce energy consumption and help to reduce the labor cost involved in frequent bulb replacement. Each bulb produces full brightness with relatively cool running performance. RoHS compliant and 100% mercury free. Choose the dependable bath and vanity globe lamp that is perfect for any residential or commercial application.



BULB FINISH	DELIVERED LUMENS	BASE	COLOR TEMPERATURE (K)	ENERGY USED (WATTS)	CONVENTIONAL EQUIVALENT	ESTIMATED LIFE	DIMMABLE	PACK	REF. NO.	PART NO.
Globe/Clear	350	Medium (E26)	2700	3.8 W	40 W	15,000 hrs	yes	12	BPG2540/ 927CA/FIL	16504
Globe/ Soft White	350	Medium (E26)	2700	3.8 W	40 W	15,000 hrs	yes	12	BPG2540W/ 927CA/FIL	16505
Globe/Clear	500	Medium (E26)	2700	5.5 W	60 W	15,000 hrs	yes	12	BPG2560/ 927CA/FIL	16506
Globe/ Soft White	500	Medium (E26)	2700	5.5 W	60 W	15,000 hrs	yes	12	BPG2560W/ 927CA/FIL	16507



### Energy Saving ideas!

At Blue Ribbon Supply, we practice what we preach. In addition to our focus on developing, marketing and distributing products that enhance human health and foster a transition toward sustainability, Blue Ribbon Supply is committed to encouraging and sustaining an environmentally-friendly workplace through employee programs, waste reduction, and an environmentally responsible business approach. We would like to share with you a few of the ideas that we use in our business every day...

1. Remove or turn off unnecessary lights. Two 100-watt incandescent bulbs switched off when someone isn't in a room for two hours per day could save over \$15 a year. Better yet, switch to energy saving lights like those listed here.
2. Use natural light. A single south-facing window can illuminate 20 to 100 times its area. Turning off one 60-watt bulb for four hours a day is a \$9 saving over a year.
3. Provide task lighting. When a ceiling light is turned off in favor of table lamps, track lighting and under-counter lights, not only can visibility improve but money can be saved as well.
4. Be strategic with window coverings. You can often promote clean airflow through your business and simultaneously block the afternoon sun by using window coverings at certain times of the day. This not only often improves lighting, but could reduce HVAC demand.

### ENERGY SAVING FLUORESCENT LAMPS

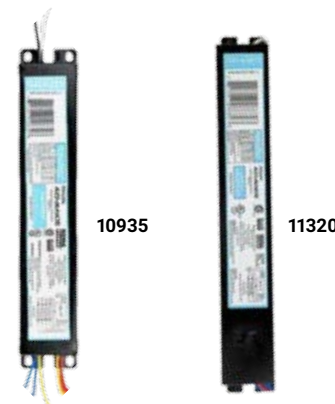
By installing energy efficient fluorescent lamps, fixtures accommodating standard fluorescent tubes can save energy without requiring the cost and logistical difficulty of a major fixture retrofit. Energy efficient fluorescent lamps can save you electricity, while eliminating a time consuming retrofit and providing the bright illumination you are already accustomed to.



DESCRIPTION	LENGTH	DELIVERED LUMENS	COLOR TEMPERATURE (K)	ENERGY USED (WATTS)	ESTIMATED LIFE (HOURS)	PACK	STOCK NO.	REF. NO.	PART NO.
High Output T5 2 Prong	48"	5000	4100 K (Cool White)	54 W	25,000	40	FP54/841/H/O/ELO	WH475	6560
Watt Miser T8 2 Prong	46"	3050	5000 K (Cool White)	25 W	40,000	30	F32T8/ADV850/XLL	HG815	10852

### ENERGY SAVING BALLASTS - For use with Fluorescent Lamps

Maxi-Miser II ballasts have a longer life than most conventional fluorescent ballasts and can help reduce lighting energy costs by as much as 21%. Since the use of fluorescent lamps does not typically require a full fixture retrofit, it may be the best choice to combine energy-saving fluorescent lamps (see above) and these high performance energy-savings ballasts. Ballasts are UL listed and feature a 3-year manufacturer warranty. Use chart below to determine ballast-lamp suitability.



DESCRIPTION	ENERGY USED (WATTS)	PACK	STOCK NO.	PART NO.
T5 Electronic Ballast Instant Start 1 or 2 Lamp	120-277 W	1 EA	iCN2S5490C	10935
T8 Electronic Ballast Instant Start 1 or 2 Lamp	120-277 W	1 EA	IOPA2P32LWN	11320

### CFL BULBS

CFL bulbs (or Compact Fluorescent Light bulbs) provide longer life and better efficiency than typical incandescent light bulbs. CFL bulbs are another type of energy efficient bulb, much like the LED, but they are most similar to the overhead fluorescent tubes found in commercial spaces. CFL bulbs typically last 10 times longer and utilize about 1/3 of the energy of typical incandescent light bulbs. CFL bulbs come in many shapes and sizes, including traditional, globe, candelabra flame tip, flood and triple tube shapes, but the most common is the spiral bulb.



BULB SHAPE / FINISH	DELIVERED LUMENS	BASE	COLOR TEMPERATURE (K)	ENERGY USED (WATTS)	CONVENTIONAL EQUIVALENT	ESTIMATED LIFE	DIMMABLE	PACK	REF. NO.	PART NO.
Spiral / Soft White	900	E26	2700	13 W	60 W	10,000 hrs.	No	12	ESL13T/ECO	1843
Flame Tip / Soft White	320	E12	2700	17 W	40 W	10,000 hrs.	No	12	BPEL7F	13638
PL / Cool White	780	GX23-2	4100	13 W	26 W	10,000 hrs.	No	12	PLD13/41	15359