

How bright is the bulb?

To determine which LED bulbs will provide the same amount of light as your current incandescent light bulbs, consult the following chart.

Light Output Comparison

Incandescent Bulb	LED Bulb
40 watt	450 lumen
60 watt	800 lumen
75 watt	1,100 lumen
100 watt	1,600 lumen
150 watt	2,600 lumen

What color is the light?

LED bulbs come in a range of colors from soft white to cool white, as illustrated in the chart below.

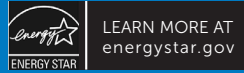
Light Color



K=Kelvin (2,700–3,000K similar color to incandescent light bulbs)

Questions?

Visit www.mnpower.com/Lighting or talk with a participating retailer for more information.



For a list of participating retailers, visit www.mnpower.com/LightingSpecials

Rebates and special offers

Visit www.mnpower.com/Rebates for a complete list of rebates and special offers from Minnesota Power.

CFL recycling coupons

CFLs and other fluorescent bulbs contain small amounts of mercury which is hazardous to the environment. It is illegal to dispose of any fluorescent bulbs in your household garbage. Call **218-355-2843** (option 1) to request recycling coupons or visit www.mnpower.com/CFLrecycling for more details on proper disposal of fluorescent bulbs and a list of participating recycling retailers.



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Your guide to buying energy-efficient lighting for your home.



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www.mnpower.com/EnergyConservation

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www.mnpower.com/lighting

Shopping Tips

- Before you leave home, consider measuring your light fixtures and making a list of exactly what you need.
- For a consistent look, use bulbs with the same color temperature within a room. Choose from soft white to cool white color (see Light Color chart on reverse).
- Make sure the bulb gives off the right amount of light for where you want to use it (see the Light Output Comparison chart on reverse).
- If you plan to use the bulb with a dimmer switch, check the package to make sure it works on standard dimmer controls.
- Make sure you choose ENERGY STAR®* approved bulbs and take advantage of in-store, utility-sponsored special offers.

www.mnpower.com/Rebates

*The ENERGY STAR® logo on packaging ensures the product has met Department of Energy performance standards. LED bulbs last longer and save dollars while giving the same amount of light as the standard bulbs they replace. This is why the Department of Energy says ENERGY STAR LEDs use up to 80 percent less energy than standard bulbs.

Choose the right bulb for your fixture

Shop your local hardware, big box or specialty store for a variety of ENERGY STAR® qualifying LED bulbs. These bulbs can be used in all sorts of light fixtures. Use this lighting chart to match bulbs to fixtures.

TABLE OR FLOOR LAMPS	A-SHAPE			
PENDANT FIXTURES	A-SHAPE	GLOBE	MR16	CANDLE
CEILING FIXTURES	A-SHAPE	CANDLE		
CEILING FANS	A-SHAPE	CANDLE		
WALL SCNCES	A-SHAPE	GLOBE		CANDLE
RECESSED CANS	MR16	SPOT		REFLECTOR
ACCENT LIGHTING	MR16	SPOT		
OUTDOOR COVERED	A-SHAPE			
OUTDOOR EXPOSED	REFLECTOR			

Product Packaging

Terms to know

Lumens is a measure of brightness. The higher the lumens, the brighter the light. (See light output comparison chart on reverse.)

Light color or **color temperature** (CCT) is measured on a Kelvin (K) temperature scale. Lower Kelvin numbers equal yellow tones; higher Kelvin numbers equal white or blue tones. (See light color chart on reverse.)

Color Rendering Index (CRI) is a comparison of a light source's ability to accurately render the color of an object to that of a standard reference light source. Look for a CRI equal to or greater than 80 for color accuracy.

Distribution of the light refers to the width of the light beam for area and directional (task) lighting. Directional lights are often referred to as downlights or PAR lamps and used as flood or spot lighting for recessed cans and track lighting indoors, and flood lights outdoors. Bulbs for directional lighting are available with wide or narrow beams depending on their use as flood or spot lights.

Efficacy is a measure of energy usage. Just as you measure miles per gallon, efficacy measures light output (lumens) per watt. Lumens measure how much light is emitted and watts indicate how much electric power is consumed. The higher the efficacy, the more energy and dollars you save. ENERGY STAR® approved bulbs have a minimum efficacy of 42 and most have between 45–60.