

Times Square Ball Fact Sheet

- **Physical Dimensions of Ball:** 6 feet in diameter
- **Number of LEDs Contained:** 9,576 Philips Luxeon LEDs, each of which can be controlled independently (*note: not all LEDs will be illuminated at any given time*)
- **Colors:** Red, green, blue, and white LEDs will create a palette of more than 16 million vivid, vibrant, and highly-saturated colors as well as *billions* of possible effects
- **Usable Lifetime of LEDs:** 50,000 hours (compared to the 1,000-hour lifespan of previous incandescent and halogen technology used in the Times Square Ball)
- **Efficiency of Light Source** (*see chart below comparing bulbs in previous ball to this year's LEDs*)
 - This year, Philips' red Luxeon LEDs use only 2 Watts of power to deliver the same lumen output as last year's 40-Watt incandescents (i.e., they are 95% more efficient)
 - This year, Philips' green Luxeon LEDs use only 1 Watt of power to deliver the same lumen output as last year's 40-Watt incandescents (i.e., they are 97.5% more efficient)
 - This year, Philips' blue Luxeon LEDs use only 1 Watt of power to deliver the same lumen output as last year's 40-Watt incandescents (i.e., they are 97.5% more efficient)
 - This year, Philips' white Luxeon LEDs use only 20 Watts of power to deliver the same lumen output as last year's 60-watt Halogena halogen bulbs (i.e., they are 67% more efficient)
 - Overall, it will take a total of only 24 Watts of power to operate one red, one green, one blue, and one white bulb on the Times Square Ball this year compared to the 180 Watts of power required to operate the equivalent bulbs last year. This significant elevation in energy efficiency represents a 156-Watt or 87% reduction in electricity consumption per four-color series.

Bulbs			Philips LUXEON LEDs		
Watts	Lumens	Color	Lumens	Watts	
40	54	Red	54	2	
40	24	Green	24	1	
40	6	Blue	6	1	
60	900	White	900	20	
180 Watts			24 Watts		

- **Household Efficiency Comparisons....Did You Know?**
 - Through the use of highly-efficient Philips Luxeon LEDs, the entire Times Square Ball will be lit using approximately the same amount of electricity as it takes to

power:

- ❖ 20 hair dryers, or
 - ❖ 10 toasters, or
 - ❖ 3 clothes dryers, or
 - ❖ 1 oven/range combination
- Alternatively, the 156 watts of power saved on **each** 4-color LED series relative to the old ball would enable a consumer to operate:
- ❖ 78 wall clocks, or
 - ❖ 10 electric shavers, or
 - ❖ 5 video cassette recorders, or
 - ❖ 3 radios

(Source: Peninsula Light Co. "Energy Comparisons")

- **Environmental Impact of LED Efficiency:** By delivering an equivalent level of light output with significantly fewer Watts of power, LEDs demand far less electricity than incandescent or halogen technology. This reduces the amount of electricity that utilities will have to generate, which helps avoid the airborne emission of such hazardous pollutants as CO₂, mercury, and sulfur dioxide (which are all by-products of the electricity generation process)
- **LED Response Time:** Whereas incandescent and halogen technology takes time to both reach full brightness and power down, LED technology delivers instant on, instant off capability. The LEDs' rapid response time enables an exponential range of kinetic lighting effects never before possible with previous technology.
- **Durability:** Whereas incandescent and halogen bulbs may be subject to catastrophic failure if dropped, bounced, or vibrated, LEDs can withstand vibration and shock, delivering superior durability and reduced maintenance concerns.
- **Hazard-Free Light Source:** Philips Luxeon LEDs are lead and mercury-free as well as RoHS-compliant (European standard known as "Reduction of Hazardous Substances")
- **Construction and Controllability:** The new Times Square Ball features waterproof modules and connections as well as the ability to passively dissipate heat. Each LED in the ball has its own specific address, enabling a level of two-way communication and digital controllability never before possible.

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