



SYLVANIA ULTRA LED Lamps and Downlights

Long lasting energy saving LED lamps

SEE THE WORLD IN A NEW LIGHT

SYLVANIA





Nice. And easy.

SYLVANIA LED lamps for commercial and residential lighting.

Out with the old—and in with the new family of LED lamps from SYLVANIA. Offering the latest in lighting technology, SYLVANIA ULTRA LED lamps and downlight retrofits provide energy savings, longer life, reliability and sustainability. They are high-quality replacements for conventional light sources for both commercial and consumer applications. And, they use existing sockets, so installation couldn't be easier.

Benefits of ULTRA LED Products

Reduces operational costs for your business

- Energy savings up to 84% over traditional incandescent and halogen sources
- Up to 20x longer life compared to incandescent and halogen which reduces maintenance cost
- Up to five-year limited warranty

Instant on, full light output for better visibility, safety and security

- No warm up time—providing light immediately when lamps turn on

Control light levels with 100-10% dimming*

- Smooth, phase-cut dimming on compatible dimmers
- Set desired light levels for specific spaces and activities

Lack of UV or IR radiation

- Minimizes concerns with fading or discoloration of materials making them ideal for highlighting merchandise or artwork

Environmentally friendlier, sustainable lighting

- Less power generation to operate lamps reduces power plant emissions.
- Longer life reduces number of lamps to dispose
- No mercury reduces disposal costs and mercury exposure concerns if lamp should break

Utility rebates available

- Additional savings thru utility rebate programs for ENERGY STAR® qualified lamps**
- Reduces initial cost to install

Product Choices for a Variety of Applications

General, Accent and Task Lighting

- Chandeliers
- Display lighting
- Pendants
- Recessed downlighting
- Table lamps
- Track
- Vanity lighting
- Wall wash



*Visit www.sylvania.com/ledretrofit for a list of dimmers compatible with all ULTRA LED products.

**Visit www.energystar.gov for a complete listing of all ULTRA LED ENERGY STAR qualified products.

All the light choices: SYLVANIA ULTRA LED Lamps



ULTRA RT Downlight Kit

High Efficacy, Long Life

Full line of 120V LED recessed downlight kits for 4", 5" and 6" cans, compatible with most Insulated Ceiling (IC), Non-Insulated Ceiling (Non-IC) and Airtight (AT) downlight housings with gimbal versions available in 4" and 6" types. Integrated white trim and medium base socket adaptor included for direct replacement. Kits meet California Title 24 efficiency requirements.

- Replacement for up to 75W halogen lamps
- Energy savings up to 87%
- Suitable for indoor dry and damp locations
- Long life up to 50,000 hours (L₇₀)
- Dimmable down to 10%
- Available in 2700K & 3000K color temperatures
- Assorted color retrofit trims, GU24 socket adaptor, push wire adaptor and retrofit band available

ULTRA RT HO Downlight Kit

Highest Brightness, High Efficacy, Long Life

SYLVANIA ULTRA RT6 High Output is a 6" LED recessed downlight kit that creates high performance white light, optimized for new construction and retrofit applications. It is compatible with most Insulated Ceiling (IC), Non-Insulated Ceiling (Non-IC) and Airtight (AT) downlight housings.

- Incandescent replacement for up to 90W PAR38 lamps
- Energy savings up to 77%
- Suitable for indoor dry and damp locations
- Long life up to 50,000 hours (L₇₀)
- Dimmable down to 10%
- Available in 2700K, 3000K & 3500K color temperatures
- GU24 socket adaptor, push wire adaptor and retrofit band available



ULTRA Light Disk Downlight Kit

Extremely Low Profile

SYLVANIA Light Disk LED is an LED downlight kit that allows for multiple installation options for both recessed and surface mount applications. It fits into most Insulated Ceiling (IC), Non-Insulated Ceiling (Non-IC) and Airtight (AT) downlight housings and can be surface mounted to a standard 4" J-Box.

- Replacement for up to 75W halogen lamps
- Energy savings up to 87%
- Suitable for indoor dry and damp locations
- Long life up to 35,000 hours (L₇₀)
- Dimmable down to 20%
- Available in 3000K color temperature
- Assorted color retrofit trims and connector box sold separately



ULTRA High Performance Series Reflector LED Lamps

Highly Efficient, Quality Light

Full product offering focused on the needs of commercial businesses, providing high quality products designed for energy efficiency, long life and lumen output—equivalent or superior in performance to the lamps they replace. Lamps are available in most of the popular shapes and wattages to replace a variety of halogen lamps.

- Halogen replacements for up to 120W PAR38 lamps
- Low voltage halogen MR16 lamp replacements for 20W-35W lamps
- Incandescent 50W R20 lamp replacements
- Incandescent 65W BR30 & BR40 lamp replacements
- Good color rendering—CRI: 80-89
- Good lamp to lamp color consistency
- Long life up to 50,000 hours (L₇₀) for PAR lamps
- Long life up to 25,000 hours (L₇₀) for BR lamps
- PAR & BR lamps are damp location rated

LED LAMPS



ULTRA HO PAR Lamps

High Output LED Replacements for Metal Halide

Direct 15W PAR38 LED replacement lamps for self-ballasted, 24W metal halide integrated PAR38 lamps or up to 90W halogen PAR38 lamps. In addition to significant energy savings, unlike metal halide lamps, ULTRA HO lamps are instant on, instant re-strike with better lumen maintenance. Lamps are non-dimmable.

- 15W LED replacement for 24W HID or 90W halogen lamps
- Instant on
- Available in 10° and 25° beam angles
- Long life up to 25,000 hours (L₇₀)
- Color consistency – no color shift over the life of the lamp
- Better lumen maintenance in comparison to HID lamps



ULTRA HD Professional Series PAR Lamps

High Definition, Excellent Color Quality

Best color quality for highlighting and illuminating merchandise, pictures or paintings. The high R9 value will make reds redder, woodgrain pop and skin tones glow. There is no need to sacrifice light quality for energy savings and long life. Lamps are available in PAR20, PAR30 and PAR38 lamp types.

- Superior color rendering–High CRI: 92-95, High R9: 60-77
- Best lamp to lamp color consistency within a 3-step MacAdam ellipse
- Longest life up to 50,000 hours (L₇₀)
- Suitable for outdoor use in UL rated fixture protected from the weather
- Replacements for up to 90W halogen PAR38 lamps
- Ideal for retail, museums and galleries



ULTRA High Performance and Value General Purpose LED Lamps

Highly Efficient, Quality Light

A wide variety of LED general purpose lamps are available to meet all your lighting needs. The ULTRA series lamps provide excellent light distribution and are offered in a wide range of traditional technology equivalencies. These general purpose lamps offer energy savings, long life and are environmentally preferred products (with no UV or IR radiation). They are the perfect choice for any home or business application.

- Omnidirectional LED A-lamp replacements for 40W, 60W, 75W & 100W incandescent lamps
- Basic LED A-lamp replacements for 40W & 60W incandescent lamps
- Incandescent B10 lamp replacements for 25W & 40W lamps
- Incandescent globe replacement for 40W lamps
- Incandescent fan light replacement for 40W lamps
- Good color rendering–CRI: 80-89
- Good lamp to lamp color consistency
- Long life up to 25,000 hours (L₇₀)
- Long life up to 15,000 hours for B10 lamp replacements



San Diego History Center – retrofit with ULTRA HD PAR LED lamps



ULTRA 25™ Lamps

Warm Incandescent-Like Glow

Warm 2500K color temperature similar to dimmed incandescent lamps provides warm, comfortable, relaxing light at all brightness levels. Specially designed color temperature for hospitality and residential applications where warmer incandescent-like light is desired. Lamps are available in PAR20, PAR30, MR16, BR40 and B10 replacement lamps.

- Inviting color temperature
- Energy savings up to 82%
- Long life up to 25,000 hours (L₇₀)
- Replacement for up to 40W B10 incandescent lamps
- Replacement for up to 100W BR40 incandescent lamps
- Replacement for up to 50W PAR20/PAR30/MR16 halogen lamps



ULTRA SE™ Lamps and Downlight Kit

Innovative Dimming Color Technology

Incandescent-like dimming, ideal for hospitality applications, provides warmer light as lamps are dimmed. The color temperature shifts from 3000K to 2000K as the lamps are dimmed allowing for flexibility in creating the right atmosphere and ambience for any setting.

- Color temperature changes from 3000K to 2000K with dimming
- Ability to control light output and color
- Long life up to 35,000 hours (L₇₀)
- Replacement for up to 65W halogen PAR38 lamps
- Ideal for hospitality and residential applications



ULTRA T8 HO Lamps and Retrofit Kits

High Efficiency, Energy Savings and Long Life

Premium, energy saving LED T8 lamps with external power supply retrofit kit for traditional fluorescent T12 or T8 lamps. Design combines innovative optical and mechanical design features achieving a light distribution pattern that reduces lumen loss from within traditional recessed luminaires. The ULTRA LED T8 HO lamp is a shatter resistant, reliable system with a high power factor (> 0.90) and low THD (< 20%) to ensure a high efficiency, commercial solution.

- 2 and 4 foot lengths available in 3500K, 4100K and 5000K color temperatures
- Reduces energy consumption up to 35% vs 17W 2ft fluorescent or 32W 4ft fluorescent lamp
- No warm up time, instant on with full light output and stable lamp to lamp color
- Suitable for dry and damp indoor locations
- Long life up to 60,000 hours (L₇₀)



Stay in compliance—and in style.

DOE 2009 Rule for Incandescent Reflector Lamps

DOE efficiency standards went into effect on July 14, 2012 requiring Incandescent Reflector Lamps to meet minimum lumen per watt (LPW) requirements. Products that no longer meet the minimum LPW requirements can no longer be produced or imported. OSRAM SYLVANIA offers a wide variety of LED PAR lamps to choose from that provide energy savings and long life benefits.

Energy Independence & Security Act of 2007 (EISA)

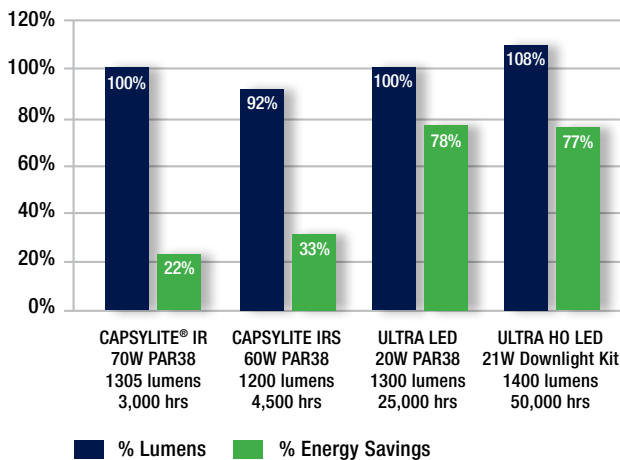
OSRAM SYLVANIA is committed to educating and supporting our customers through the new, energy-efficiency lamp legislation that affects many popular lamp types. Beginning January 2012, EISA legislation began phasing out inefficient incandescent lamps resulting in significant national energy savings and a much reduced carbon footprint. This includes many screw-base general service and decorative lamps. OSRAM SYLVANIA is helping to make this transition an easier one by offering a variety of LED lamps to choose from.

Replacement options for conventional lamps: How do they compare?

When replacing a conventional lamp technology, there are some important things you should consider. For starters, where and how will the lamp be used? What energy and maintenance savings goals need to be met in order to fit your budget? The charts below show replacement options for popular lamp types. All replacement options offer lumen performance and energy savings equal to or greater than the lamps they replace. You be the judge.

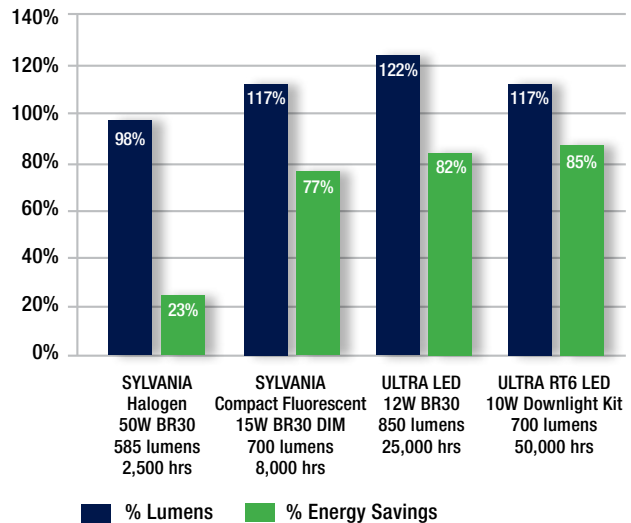
Replacement options for Halogen 90W PAR38

(1300 lumens, 2500 hours)



Replacement options for Incandescent 65W BR30

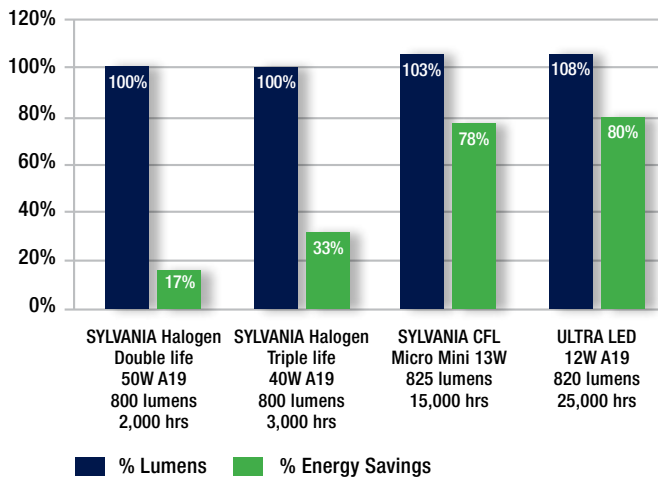
(600 lumens, 2000 hours)





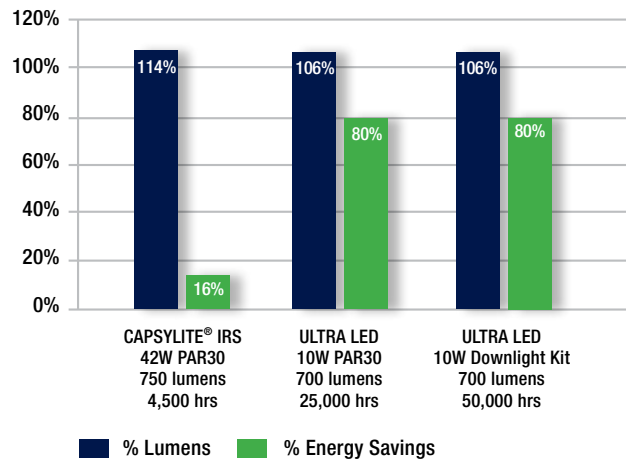
Replacement options for Incandescent 60W A19

(800 lumens, 1000 hours)



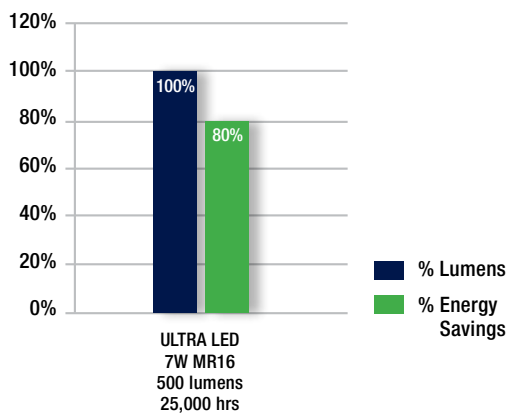
Replacement options for Halogen 50W PAR30

(660 lumens, 2500 hours)



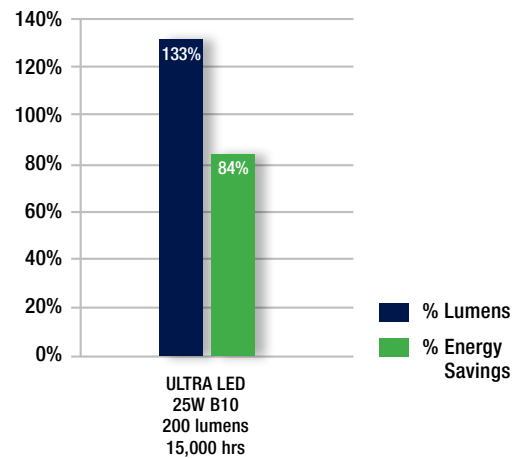
Replacement option for 12V Halogen 35W MR16

(500 lumens, 4000 hours)



Replacement option for Incandescent 25W B10

(150 lumens, 1500 hours)



Boston Westin Hotel



Overview

In 2010, Starwood Hotels and Resorts Worldwide, Inc. announced its 30/20/20 plan which involved significantly reducing energy and water consumption within the decade. Specifically, the goal was to reduce energy consumption by 30 percent and water consumption by 20 percent by the year 2020.

The hotel's previous lighting consisted of a mix of incandescent and halogen lamps, illuminating everything from function space to public areas and all of the guest rooms. To maintain a warm, welcoming environment while reducing energy usage, SYLVANIA recommended replacing the incandescent and halogen lamps with SYLVANIA ULTRA PAR and MR16 LED lamps which are more efficient and are capable of giving off the same warm illumination as traditional light sources.

Environmental Benefits

Equivalent CO₂ emissions averted per year is 507,204 lbs.

Financial Benefits

As a result of a simple lamp replacement, the Boston Westin Waterfront Hotel is realizing a roughly 80 percent reduction in energy consumption from lighting, saving over 400,000 kWh each year. In total, the lighting retrofit has saved nearly \$48,000 a year in energy costs. In addition, the SYLVANIA ULTRA LED lamps last up to 25 times longer than traditional lamps which provide an additional savings of \$6,000 per year in maintenance costs.



San Diego History Center – Balboa Park

Overview

Proper illumination of museum exhibits and historical sites is important to ensure the best viewing experience possible. Some exhibits can be susceptible to color fading and deterioration. The San Diego History Center's goal was to improve the light quality and distribution in the public spaces while reducing energy consumption.

SDHC's existing lighting consisted of a mix of technologies and lamp types, including halogen PAR and MR16 lamps and incandescent R20 lamps from 50 to 75 watts creating color inconsistency across the facility and exhibits while also driving up maintenance costs associated with stocking different lamps. SDHC wanted a new way to illuminate its galleries, shops, foyer and public common areas that would save them money on their energy bill without compromising the appearance of the space. Of particular importance was the impact of lighting on the textiles, paper and oil-based displays that were especially susceptible to deterioration and damage.

By installing 250 SYLVANIA ULTRA PAR30 10 watt and 175 ULTRA HD Professional PAR30 15 watt LED lamps, SDHC was able to achieve all of the primary goals of the retrofit project including improving the quality of light in the halls and reducing the overall energy consumption. By installing the SYLVANIA ULTRA LED lamps, San Diego History Center was not only able to improve the quality, color consistency and uniformity of the illumination of their facilities, they were able to extend the length of the museum's exhibit cycles and the life of the historical items on display.

Financial Benefits

While achieving the goals of preservation and improved illumination, the newly installed ULTRA LED lamps from OSRAM SYLVANIA also reduced SDHC's energy consumption from lighting by 61,500 kWh annually, a roughly 80% reduction from the previous system, resulting in an annual energy cost savings of \$9,840. Additionally, the SYLVANIA ULTRA LED lamps have a 50,000 hour lamp life, twenty-five times longer than the incandescent lamps they replaced, resulting in \$2,656 in annual maintenance cost savings.



**For Orders and
General Information
in the United States:**

OSRAM SYLVANIA

National Customer
Service and Sales Center
18725 N. Union Street
Westfield, IN 46074

United States

OSRAM SYLVANIA

Headquarters
100 Endicott Street
Danvers, MA 01923 USA
1-800-LIGHTBULB

Trade

Phone: 1-800-255-5042
Fax: 1-800-255-5043

National Accounts

Phone: 1-800-562-4671
Fax: 1-800-562-4674

OEM/Special Markets

Phone: 1-800-762-7191
Fax: 1-800-762-7192

Retail

Phone: 1-800-842-7010
Fax: 1-800-842-7011

Display/Optic

Phone: 1-888-677-2627
Fax: 1-855-543-1043

SYLVANIA Lighting Services

Phone: 1-800-323-0572
Fax: 1-800-537-0784

www.sylvania.com

Canada

OSRAM SYLVANIA LTD./LTÉE

Headquarters
2001 Drew Road
Mississauga, ON L5S 1S4
1-800-LIGHTBULB
www.sylvania.com

Trade

Phone: 1-800-263-2852
Fax: 1-800-667-6772

OEM/Special Markets/Display/Optic

Phone: 1-800-265-2852
Fax: 1-800-667-6772

Retail

Phone: 1-800-720-2852
Fax: 1-800-667-6772

SYLVANIA Lighting Services

Phone: 1-800-663-4268
Fax: 1-866-239-1278

Mexico

OSRAM MEXICO

Headquarters
Tultitlán/Edo de México
011-52-55-58-99-18-50

OSRAM Opto Semiconductors, Inc.

1150 Kifer Road, Suite 100
Sunnyvale, CA 94086
Phone: 1-866-993-5211
Fax: 1-408-738-9120
email: info@osram-os.com
www.osram-os.com

ENCELIUM® Products

United States

20 Murray Hill Parkway, Suite 210
East Rutherford, NJ 07073
Phone: 1-201-508-1570
Fax: 1-201-508-1589

Canada

68 Leek Crescent, Unit A
Richmond Hill, ON L4B 1H1
Phone: 1-905-731-7678

Traxon Technologies

20 Murray Hill Parkway, Suite 210
East Rutherford, NJ 07073
Phone: 1-201-508-1570
Fax: 1-201-508-1589
www.traxontechnologies.com
www.ecue.com



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