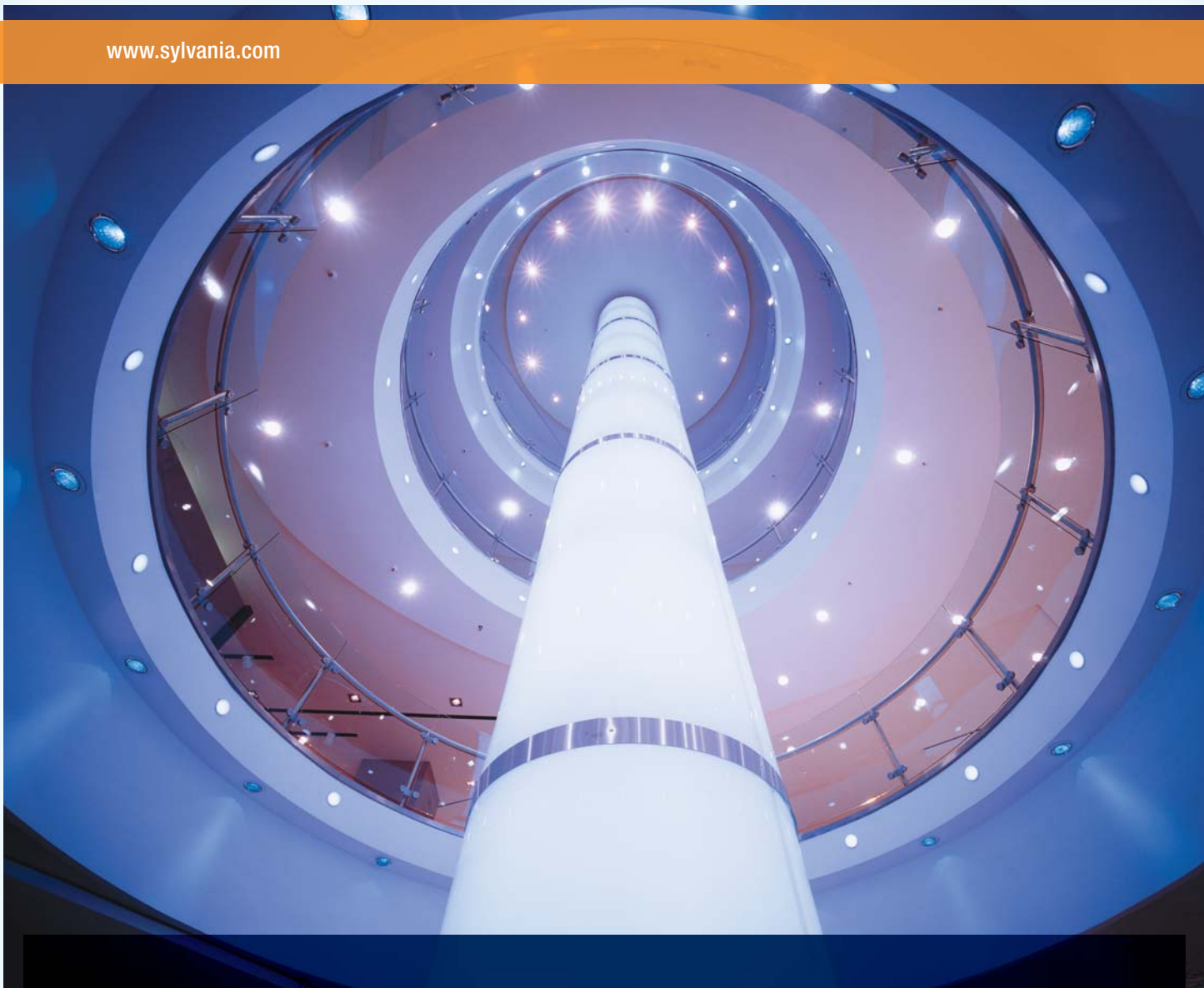


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Tomorrow, at the speed of light.

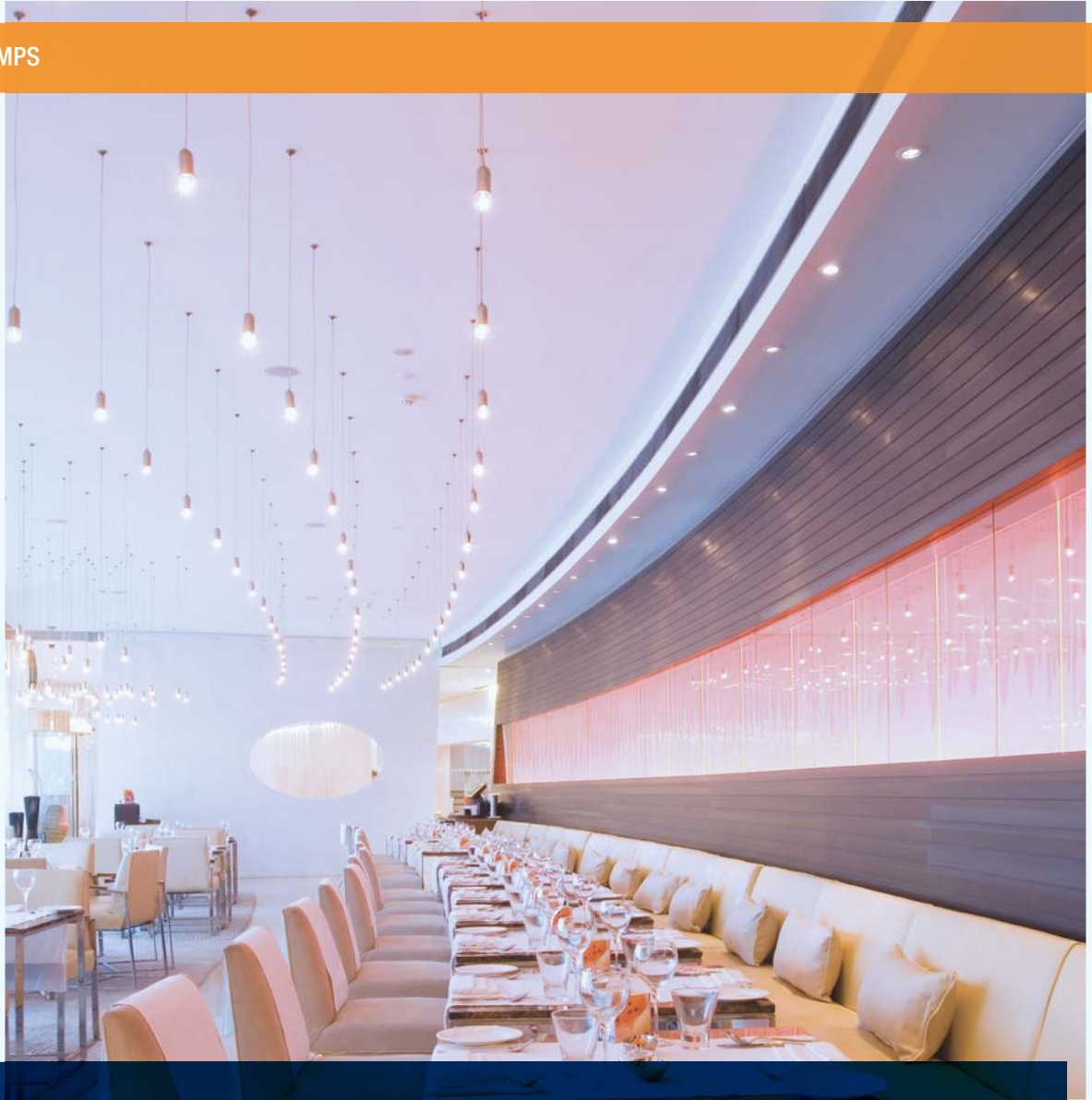
Long-lasting, energy-saving LED retrofit lamps



SEE THE WORLD IN A NEW LIGHT

SYLVANIA





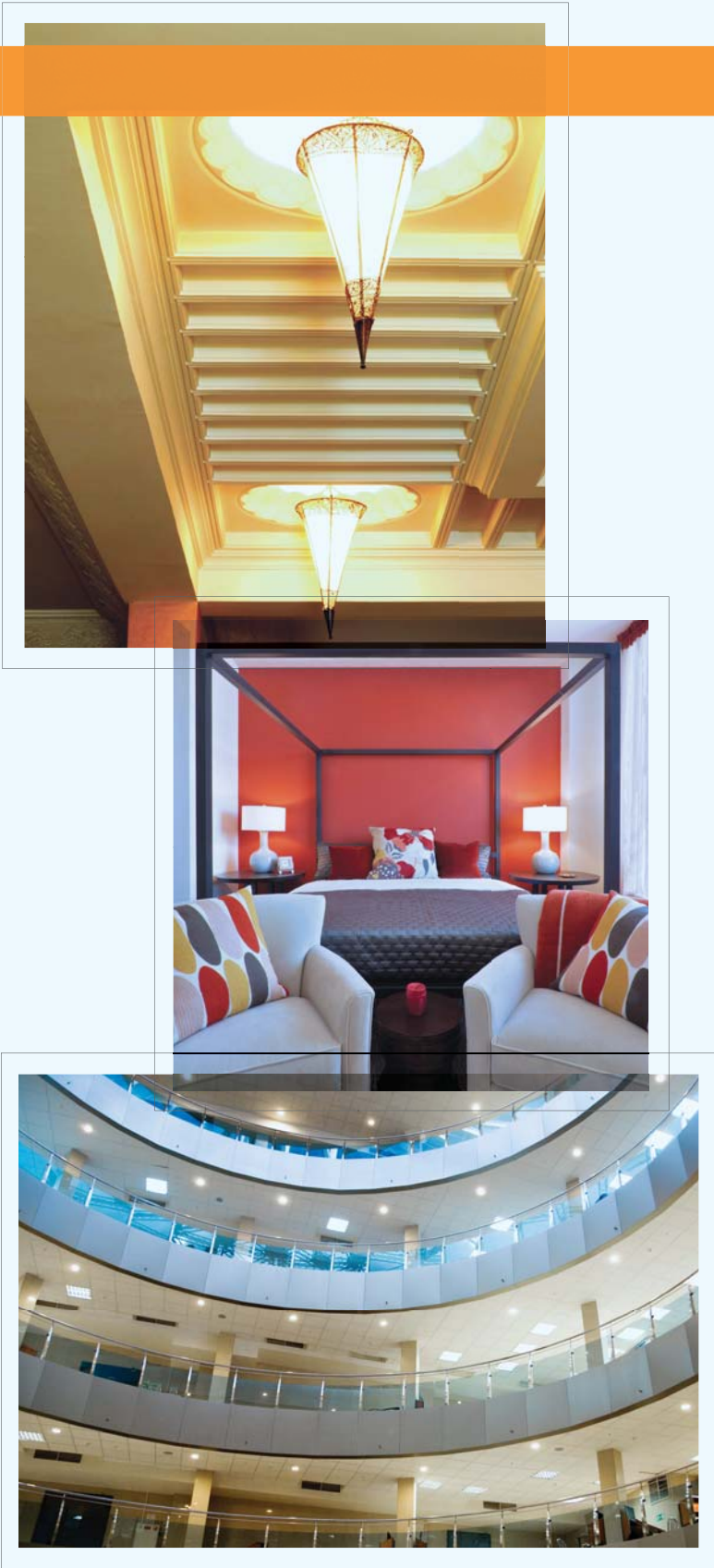
Nice. And easy.

SYLVANIA LED Retrofits for commercial and residential lighting.

Out with the old—and in with the new family of LED retrofit lamps from SYLVANIA. Offering the latest in lighting technology, SYLVANIA LED 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 socket specifications, so installation couldn't be easier.

SYLVANIA has developed a core portfolio of LED retrofit lamps for a variety of applications. LED retrofits are available in a number of different types, including A-Line and

directional, each with specific performance features. In addition to the standard types, SYLVANIA has engineered the versatile and innovative Post Top Street Light Retrofit Kit that provides property owners and municipalities with an LED retrofit alternative to existing HID roadway lighting systems. All SYLVANIA LED Retrofit lamps are engineered to perform better and more efficiently than the current technology they replace, which is what customers have come to expect from SYLVANIA, a worldwide leader in LED components and systems.



LED Retrofits: Savings for today—and tomorrow.

Long service life

LED retrofit lamps are rated for up to 50,000 hours at 70% lumen maintenance. That's equivalent to replacing more than 50 standard incandescent lamps or 5 compact fluorescent lamps. They're ideal for hard-to-reach locations, since longer re-lamping intervals lower your maintenance costs.

Reliability

LED lamps have no filaments, glass outer jacket or glass tubes to worry about. Their robust design makes them easy to handle and more resistant to temperature fluctuations and shock. Plus, LEDs are immune to frequent switching cycles that would incapacitate traditional light sources.

Sustainable by design

SYLVANIA LED lamps are environmentally preferable products. They are RoHS compliant, containing no mercury, lead, or other hazardous materials. They emit no UV or IR radiation.

Reduced energy consumption

LED lamps save up to 80% in energy costs compared to the traditional lamps they replace. They generate very little heat and have little impact on HVAC costs compared to incandescent lamps that waste up to 80% of their energy producing heat.

Quality of light

LED light sources excel at making things look their best. They feature high color saturation and natural color rendering which is critical for retail, commercial, hospitality, medical and residential environments. Since they emit no UV or IR radiation, there is far less potential for fading or discoloration of materials or décor. LED lamps provide 100% illumination at start up and are flicker free.



ECOLOGIC® is a comprehensive program of OSRAM SYLVANIA focused on addressing environmental issues at all stages of lamp life.

LED RETROFIT LAMPS



Typical applications:

Offices
Healthcare
Hospitality
Residential
Restaurants

LED Retrofit A-line Lamps

LED A19 lamps are replacements for 40 Watt incandescent lamps. These fully encapsulated medium base LED light sources last 16 times longer than the comparable incandescent lamp and consume only 8 watts of electricity—reducing energy consumption by up to 80% and lowering maintenance costs. The lamps have enhanced deep red and skin tone rendering, a color temperature of 3000K and a color rendering index of 82. They are free of UV and IR radiation, which minimizes discoloration and fading of materials.

- No warm-up time, instant-on with full light output and stable color
- 25,000 hours average rated life at 70% lumen maintenance
- RoHS compliant
- **Not to be dimmed or operated on dimming circuits**

LED A-Line Product Offering

Wattage	Bulb Type	Color Temperature	Lumens	CRI
8	A19	3000K	350 lm	82



Typical applications:

- Commercial/Office
- Conference Rooms
- Entryways
- Hospitality
- Lobbies
- Museums
- Restaurants
- Retail

LED Retrofit MR16 Lamps

LED MR16 lamps are an innovative and energy efficient alternative for downlighting and track lighting applications in retail merchandising, hospitality, museum and commercial environments. These 12 Volt lamps have GU5.3 bi-pin bases and are direct replacements for 20 Watt halogen MR16 light sources. They last twenty-five times longer than the comparable halogen lamp and consume only 8 watts of electricity—reducing energy consumption by up to 60% (8W vs. 20W). They have a color temperature of 3000K and a color rendering index of 82. They are free of UV and IR radiation, which minimizes discoloration and fading of retail and display merchandise and fabrics. They are designed for use with all types of magnetic and most electronic 12 Volt transformers. It is recommended that they be used indoors, in open style luminaires.

- No warm-up time, instant-on with full light output and stable color
- 50,000 hours life at 70% lumen maintenance
- RoHS compliant
- **Not to be dimmed or operated on dimming circuits**

LED MR16 Product Offering

Wattage	Beam Angle	Color Temperature	Lumens	CRI
8	35°	3000K	220 lm	82

LED RETROFIT LAMPS



Typical applications:

Conference Rooms
Hospitality
Lobbies
Museums
Residential
Restaurants
Retail

LED Retrofit PAR16 Lamps

LED PAR16 lamps are recommended for any existing accent lighting application that currently utilizes R (Reflector) type incandescent directional lamps. These 4 Watt LED line voltage lamps are direct replacements for 25 Watt halogen R lamps and feature the versatility of two base types: GU10 bi-pin or medium screw base. The lamps are available in four output colors: red, green, blue, yellow, plus white (3000K and 6500K) and have a color rendering index of 82. They are free of UV and IR radiation, which minimizes discoloration and fading of materials and fabrics. It is recommended that they be used indoors, in open style luminaires.

- No warm-up time, instant-on with full light output and stable color
- 25,000 hours life at 70% lumen maintenance
- 20° narrow flood beam angle
- RoHS compliant
- **Not to be dimmed or operated on dimming circuits**

LED PAR16 Product Offering

Base	Wattage	Beam Angle	Color Temperature	CBCP	CRI
Medium	4	20°	R, G, B, Y, 3000K, 6500K	340 cd	82
GU10	4	20°	R, G, B, Y, 3000K, 6500K	340 cd	82



Typical applications:

- Accent/display lighting
- Art galleries
- Hotels
- Lobbies
- Offices
- Recessed cans
- Residential
- Restaurants
- Retail

LED Retrofit PAR20 Lamps

LED Retrofit PAR20 lamps are the energy-efficient, cost-saving replacement for conventional 45W incandescent PAR20 lamps. Ideal for a variety of applications, 7 Watt LED Retrofit PAR 20 lamps last twenty-five times longer than the 45W incandescent PAR20 lamps they replace—dramatically reducing energy and maintenance costs. They are free of UV and IR radiation, minimizing discoloration and fading of materials. LED Retrofit PAR20 lamps are available in a color temperature of 2700K and have a color rendering index of 90. Use in dry indoor environments and open fixtures only.

- No warm-up time, instant-on with full light output and stable color
- 50,000 hours life at 70% lumen maintenance
- RoHS compliant
- **Not to be dimmed or operated on dimming circuits**

LED PAR20 Product Offering

Wattage	Beam Angle	Color Temperature	CBCP	CRI
7	25°	2700K	400 cd	90

LED RETROFIT LAMPS



Typical applications:

Art galleries
Hospitality
Offices
Recessed cans
Residential
Restaurants
Retail

LED Retrofit PAR30 Long Neck Lamps

LED PAR30LN lamps are the energy efficient alternative to the popular line voltage halogen PAR30LN directional lamps in downlighting and track lighting applications. The 13 Watt LED medium base PAR30 lamps last more than twenty times longer than the 50 Watt halogen PAR30 lamps they replace and save \$185 in energy costs.* They are free of UV and IR radiation, minimizing discoloration and fading of materials. The lamps are available in two color temperatures, 3000K and 3500K, with color rendering indexes of 82 and 85 respectively. It is recommended that they be used indoors, in open style luminaires.

*Calculated over the life of the lamp at local utility rate of \$0.10/kWh

- No warm-up time, instant-on with full light output and stable color
- 50,000 hours life at 70% lumen maintenance
- RoHS compliant
- **Not to be dimmed or operated on dimming circuits**

LED PAR30LN Product Offering

Wattage	Beam Angle	Color Temperature	CBCP	CRI
13	30°	3000K	1350 cd	82
13	30°	3500K	1350 cd	85



Typical applications:

- Art galleries
- Hospitality
- Offices
- Recessed cans
- Residential
- Restaurants
- Retail

LED Retrofit PAR38 Lamps

LED PAR38 lamps are the direct replacement for the industry standard line voltage halogen PAR38, used in downlighting and accent lighting applications. The 16 Watt LED medium base PAR38 lamps last eight times longer than the 60 Watt halogen PAR38 lamps they replace and reduce energy consumption by 70% for savings of \$110 in energy costs.* The lamps offer high color quality with enhanced deep red and skin tone rendering and a color temperature of 3000K. They are free of UV and IR radiation, minimizing discoloration and fading of materials. It is recommended that they be used indoors, in open style luminaires.

*Calculated over the life of the lamp at local utility rate of \$0.10/kWh

- No warm-up time, instant-on with full light output and stable color
- 25,000 hours life at 70% lumen maintenance
- RoHS compliant
- **Not to be dimmed or operated on dimming circuits**

LED PAR38 Product Offering

Wattage	Beam Angle	Color Temperature	CBCP	CRI
16	30°	3000K	2350 cd	87

LED RETROFIT LAMPS





LED B10 Lamps

With their unique candle-base design, LED B10 lamps are as attractive as they are energy efficient. Their sparkle lit and unlit appearance enhance the classic beauty of chandelier fixtures. Featuring a clear glass envelope with a crystal-like light concentrator inside, LED B10 lamps last 16 times longer than incandescent 25W B10 bulbs they replace. They offer a high CRI of 83 with enhanced red and skin tone rendering.

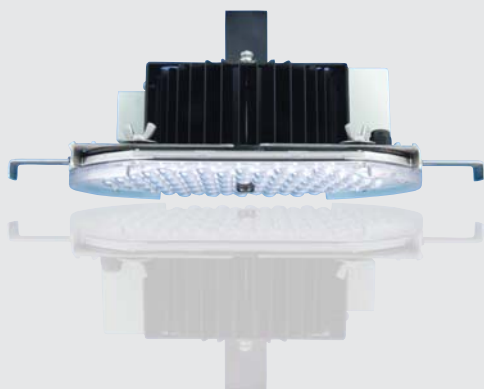
Typical applications:

Chandeliers
Entryways
Foyers
Healthcare
High end property management
Hospitality
Wall sconces

- Instant-on
- 25,000 hours life at 70% lumen maintenance
- RoHS compliant
- **Not to be dimmed or operated on dimming circuits**

LED B10 Product Offering

Base Type	Wattage	Color Temperature	Lumens	CRI
Candelabra	7	2700K	175 lm	83



Typical applications:

- College and business park campuses
- Historic restorations and downtown business/retail districts
- Parking lots and garages
- Public parks and playgrounds
- Roadways, walkways, bike paths and thoroughfares
- Street, outdoor and area lighting
- Shopping centers, malls and plazas

Post Top Street Light LED Retrofit Kit

The SYLVANIA LED Street Light Retrofit Kit is a brilliant alternative to existing high-intensity discharge (HID) systems in street lighting luminaires. It's the ideal solution for communities or property managers that want to convert to an environmentally preferable technology that provides substantial energy and maintenance cost savings as well as dramatic improvements in light quality. Each retrofit kit incorporates 60 Golden Dragon Plus LEDs from OSRAM Opto Semiconductors. By taking advantage of the directional light distribution of these high power white LEDs, this revolutionary system delivers light only where needed, dramatically minimizing light trespass in roadway and walkway applications. The long service life of the LEDs plus the elimination of end-of-life cycling common to HID lamps means maintenance can "set and forget". The retrofit kit is designed for installation in a variety of street lighting luminaires. For specific information on the components of the kit and installation instructions, consult the Installation Guide.

- Reduces street light energy consumption up to 85%
- Provides significant maintenance cost savings by lasting 2-6 times longer than HID lamps
- RoHS compliant
- Average rated life of 50,000 hours with 70% lumen maintenance
- UL1310 Recognized Class 2 OPTOTRONIC® power supply

Post Top Retro Kit Product Offering

	Wattage	CCT	Voltage	CRI	Lumens	Type
D11	40	5700/5000	120-277	70/80	2800/2700 lm	III Medium
D11	40	5700/5000	120-277	70/80	3500/3400 lm	V Short
D6	50	5700/5000	120-277	70/80	3500/3400 lm	V/III Medium and Short



Global Care represents OSRAM SYLVANIA's commitment to environmental and social responsibility.

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

www.sylvania.com

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: 1-800-762-7192

SYLVANIA Lighting Services
Phone: 1-800-323-0572
Fax: 1-800-537-0784

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
Tultitlan/Edo DeMexico
011-52-55-58-99-18-50

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