



**SYLVANIA ECOLOGIC®**  
Environmentally Friendlier Lighting Products



SEE THE WORLD IN A NEW LIGHT **SYLVANIA**



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**OSRAM SYLVANIA's innovative ECOLOGIC® program of environmental responsibility was designed as a thorough approach to reducing the environmental impact of our processes, packaging and products. Today, the ECOLOGIC program is even more comprehensive, having evolved to include other elements of sustainability, such as source reduction and reuse, recycling and recyclability, and environmental management systems in product manufacturing.**



## **PROTECTING THE ENVIRONMENT**

OSRAM SYLVANIA accepts its responsibility for a conscientious approach to the environment. This pledge is synonymous with a commitment to the future. The long-term opportunities for future generations can only be secured through intelligent, responsible actions.

Such actions include the development of energy-efficient products, the selection of environment-friendlier raw materials, reduced waste, optimized packaging, and the economical use of energy in all manufacturing processes. These values apply throughout the life of all SYLVANIA branded lighting products—from initial development and production, to service life, recycling and disposal.

In line with the model of sustainable development, we place emphasis on our economic, social, and ecological objectives. Active protection of the environment is a fundamental tenet of our corporate philosophy. OSRAM SYLVANIA has developed the necessary organization to implement this objective, backed by a systematic environmental management system that supports our goals of continuous improvement.



# SUSTAINABILITY IN ACTION

## Energy

For our customers, installing energy-efficient lighting is one of the most effective, sustainable design strategies available today. Reduced energy usage means reduced utility emissions, which means reduced environmental impact.

At OSRAM SYLVANIA we have long been the energy-efficient product innovators. We were first with high performance T8 fluorescent lamps in North America. In 1981 we introduced the SYLVANIA OCTRON® family of fluorescent lamps, ushering in a new era of lighting efficiency. For years we have offered our customers optimal design and energy performance with The SYSTEM SOLUTION™ concept—our inventive offering of energy-efficient SYLVANIA lamps and ballasts. By bringing lamp and ballast development under one roof, we have been able to design SYLVANIA lighting systems that optimize energy savings without sacrificing other elements of performance.

As lighting industry leaders in energy efficiency, OSRAM SYLVANIA was instrumental in developing the Department of Energy ruling requiring the use of energy-saving electronic ballasts in most fluorescent luminaires by 2005, and for replacement purposes by 2010.

## Environmental Management Systems

OSRAM SYLVANIA has led the way in the North American lighting industry by attaining ISO 14001 for our manufacturing facilities. This prestigious certification ensures consistent compliance with the OSRAM SYLVANIA environmental protection objectives by requiring systematic documentation, monitoring, and review of all environmentally relevant data.

## Source Reduction and Reuse

OSRAM SYLVANIA pioneered the use of lead-free solders and welded lamp bases, as well as the use of lead-free glass in high intensity discharge (HID) light sources. We have eliminated lead solder in the majority of SYLVANIA general purpose incandescent A-19, B-10, and globe-shaped lamp products; most of our halogen lamp types are lead-free. We also offer the only lead-free, mercury-free high-pressure sodium lamp on the market, and have won

acclaim from the lighting community for this research and development breakthrough.

Since 1990, OSRAM SYLVANIA has joined the lamp industry in reducing mercury content in total U. S. lamp shipments by about 67%, and in four-foot fluorescent lamps by an average of 80%. Our New Hampshire plants have instituted innovative programs to reclaim unused metal halide and high-pressure sodium arc tubes.

Over the past 15 years, OSRAM SYLVANIA's packaging department has aggressively pursued source reduction strategies, reducing the thickness and combined weight of both primary and secondary packaging for all of our products. Through advanced computer software and scientific methods, we have optimized packaging systems from primary through secondary to unit load, saving packaging materials, pallets, fuel, transportation, and warehouse space, without compromising shipping performance. These benefits extend through the entire supply chain. Our lamp components and highest volume packaging raw materials are typically shipped in re-usable containers, and all packaging is printed using organic soy-based (non-solvent) inks.

## Recycling Philosophy

OSRAM SYLVANIA publicly promotes recycling as the preferred method of lamp disposal. As a matter of policy, our own warehouse and manufacturing locations recycle broken lamps. When our SYLVANIA Lighting Services personnel complete lighting retrofits or maintenance calls, we ship all spent mercury-containing lamps to a bona-fide lamp recycler for processing. Furthermore, we encourage distributors and retailers of our SYLVANIA products to offer lamp-recycling programs to their customers, thereby reducing the burden on the solid waste stream.

## Recycled and Recyclable Materials

We use only recycled mercury in our energy-efficient fluorescent and HID products. 95% of SYLVANIA packaging comes from renewable resources, and 90% of high volume packaging is made from post-consumer or post-industrial recycled materials. Virtually all of our lamp packaging is recyclable.



## Ordering and Procurement

On the transaction side of our business, our customers place over 60% of their SYLVANIA lamp and ballast orders through our electronic and web-based ordering systems, significantly reducing the use of paper and ink. As part of our corporate strategic sourcing policy, all national contract vendors for packaging materials and components are companies that subscribe to sustainable forest management practices.

## Customer Certification Programs

SYLVANIA's ECOLOGIC® Certification Program is an award program designed to encourage businesses to use environmentally friendlier materials in their facilities. Recognition is given for demonstrating a commitment to the environment by installing ECOLOGIC products.

The SYLVANIA Energy Saver Certification program is part of our commitment to develop and promote high quality energy efficient products. Participants receive recognition for using efficient SYLVANIA lamps or systems to conserve energy and reduce energy costs.

## SYLVANIA ECO® PRODUCTS

ECOLOGIC is more than just a single product solution to today's environmental issues; SYLVANIA ECO products comprise an entire family of lighting options guided by our unique life-cycle approach to product development. This approach places strict environmental focus on all stages of lamp life, driving our continual search for improvement—and we have more ECO products than any other lamp manufacturer in North America.

### SYLVANIA ECO products are engineered to pass the Federal TCLP test for hazardous waste determination:

- Tested in accordance with EPA SW846
- Prepared for testing in accordance with NEMA LL series standards

### ECO products also feature some or all of the following:

- Reduction or elimination of toxic materials
  - Lamp bases using lead-free solders
  - Welded lamp bases
  - Lead-free glass in HID products
- Precision dosing systems ensuring consistent low mercury content
- ECO-friendly packaging, using recycled materials and soy-based inks
- Permanent ECO identifier printed on lamp or stamped into metal base
- Performance equal to or better than standard, non-ECO products
- High efficacy
- Long life with sustained performance



## OCTRON® XPS® ECO® EXtended Performance Super Fluorescent Lamps

- Longest life<sup>1</sup>, highest lumen OCTRON T8 lamp
  - Up to 30,000 hour average rated life
  - Up to 3150 Initial lumens
- 95% lumen maintenance @ 8000 hours
  - 94% at 9600 Hours, 93% @ 12,000 hours
- Color temperatures: 3000K, 3500K, 4100K
- 85 CRI
- ECOLOGIC – pass federal TCLP limits<sup>2</sup>
- Medium bi-pin bases
- Dedicated QUICKTRONIC<sup>1</sup> PROStart™ ballast
  - Input power – 46 watts (47W @ 120V) on 2-lamp ballast
  - 1, 2, 3 and 4 lamp PSX ballasts available
  - Extended lamp life with occupancy sensors
  - Optimized ballast factor – .71
  - Universal voltage ballast – 120 to 277V
- QUICK 60+® Warranty

<sup>1</sup> When operated on QUICKTRONIC PSX ballast

<sup>2</sup> Regulations may vary. Check your local and state regulations.

SYLVANIA OCTRON EXtended Performance Super ECOLOGIC® lamps and dedicated QUICKTRONIC® programmed start electronic ballasts form a lighting system that provides up to 22% energy savings and comparable light output with twice the lamp life of standard instant start T8 systems. The “soft” start of the programmed start ballasts makes this system the choice for frequent switching cycle applications.

### Ordering and Specification Information

Item Number	Ordering Abbreviation	CCT	CRI	Avg. Rated Life (hrs.) <sup>1</sup>	Initial Lumens <sup>2</sup>	Mean Lumens <sup>3</sup>
21680	F032/830XPS/ECO	3000K	85	30,000	3100	2945
21697	F032/835XPS/ECO	3500K	85	30,000	3100	2945
21681	F032/841XPS/ECO	4100K	85	30,000	3150	2992
22150	F017/830/XPS/ECO	3000K	85	30,000	1400	1330
22151	F017/835/XPS/ECO	3500K	85	30,000	1400	1330
22152	F017/841/XPS/ECO	4100K	85	30,000	1400	1330
22153	F025/830/XPS/ECO	3000K	85	30,000	2200	2090
22154	F025/835/XPS/ECO	3500K	85	30,000	2200	2090
22155	F025/841/XPS/ECO	4100K	85	30,000	2200	2090

<sup>1</sup> Lamp life based on operation on dedicated QUICKTRONIC programmed rapid start ballast. If operated on other QUICKTRONIC ballasts for OCTRON lamps, lamp life will be the same as FO32 OCTRON lamps.

<sup>2</sup> Measured at 100 hours of operation.

<sup>3</sup> 95% @ 8000 hours. Lumen maintenance 94% @ 9600 hours, 93% @ 12,000 hours (40% of rated life).

### Ordering Guide

FO	32	/	8	35	XPS	/	ECO
Fluorescent OCTRON	Wattage: 32 Watts		8 = 85 CRI	35 = 3500K 30 = 3000K 41 = 4100K	EXtended Performance Super		ECOLOGIC



## OCTRON® 800 XP™ ECO® Fluorescent Lamps

- **EX**tended **P**erformance Octron ECOLOGIC T8 designed to pass TCLP
- Average rated life of 24,000 hours
  - 20% longer than conventional T8
  - Maintains 94% lumens at 9600 hours
  - 95% lumens at 8000 hrs
  - Improved CRI – 85
  - Available in 2700K, 3000K, 3500K, 4100K, 5000K & 6500K
- Compatible with QUICKTRONIC® SYSTEM 32, 32PLUS and 32LP
- Higher lumens
  - use fewer fixtures
- Extend re-lamp cycles

SYLVANIA OCTRON 800 XP ECOLOGIC® fluorescent lamps are designed to meet the Federal Toxic Characteristic Leaching Procedure (TCLP) criteria for classification as non-hazardous waste in most states.<sup>1</sup>

<sup>1</sup> Regulations may vary. Check your local and state regulations.

### Ordering Guide

FO	32	/	835	XP	/	ECO
Fluorescent OCTRON	Wattage: 13, 17, 25, 32 or 40 watts		8 = 85 CRI 27 = 2700K 30 = 3000K 35 = 3500K 41 = 4100K 50 = 5000K 65 = 6500K	<b>EX</b> tended <b>P</b> erformance		ECOLOGIC

### Ordering and Specification Information

#### OCTRON 800 XP ECOLOGIC SERIES LINEAR T8 FLUORESCENT LAMPS, (85 CRI, MEDIUM BI-PIN BASE)

Item Number	Ordering Abbreviation	Nominal Length (in)	Average Rated Life (Hours) <sup>1</sup>	Initial Lumens	Mean Lumens	Color Temp.	CRI
21731	F013/865XP/ECO	18	24,000	850	808	6500K	85
21716	F014/865XP/ECO	20	24,000	1000	950	6500K	85
21785	F017/830XP/ECO	24	24,000	1375	1305	3000K	85
21778	F017/835XP/ECO	24	24,000	1375	1305	3500K	85
21907	F017/841XP/ECO	24	24,000	1375	1305	4100K	85
21718	F017/865XP/ECO	24	24,000	1250	1188	6500K	85
21730	F021/865XP/ECO	30	24,000	1600	1520	6500K	85
21910	F025/830XP/ECO	36	24,000	2150	1975	3000K	85
21776	F025/835XP/ECO	36	24,000	2150	1975	3500K	85
21774	F025/841XP/ECO	36	24,000	2150	1975	4100K	85
21719	F025/865XP/ECO	36	24,000	2000	1900	6500K	85
21727	F028/865XP/ECO	40	24,000	2250	2138	6500K	85
22039	F032/827XP/ECO	48	24,000	3000	2850	2700K	85
21759	F032/830XP/ECO	48	24,000	3000	2850	3000K	85
21763	F032/835XP/ECO	48	24,000	3000	2850	3500K	85
21767	F032/841XP/ECO	48	24,000	3000	2850	4100K	85
22026	F032/850/XP/ECO	48	24,000	3000	2850	5000K	85
21720	F032/865XP/ECO	48	24,000	2850	2708	6500K	85
21912	F040/830XP/ECO	60	24,000	3750	3560	3000K	85
21911	F040/835XP/ECO	60	24,000	3750	3560	3500K	85
21916	F040/841XP/ECO	60	24,000	3750	3560	4100K	85
21721	F040/865XP/ECO	60	24,000	3650	3468	6500K	85

<sup>1</sup> Based on 3 hours per start on magnetic Rapid start ballast.

#### Sample Specification

Lamps shall be OCTRON 800XP ECOLOGIC (F032/800XP/ECO®) lamps having medium bi-pin bases. Lamp shall pass the existing Federal TCLP limits. Lamps shall have an average rated life of 24,000 hours, 3000 initial lumens, 2820 mean lumens, a correlated color temperature of (2700K, 3000K, 3500K, 4100K or 5000K) and a CRI of 85. The OCTRON lamps shall be operated on dedicated QUICKTRONIC ballast (System 32, 32LP or 32 PLUS) with complete system warranty from the manufacturer covering lamps and ballast.



# OCTRON® FO32 700 XP™/ECO® T8 Linear Fluorescent Lamps



- **EX**extended **P**erformance OCTRON ECOLOGIC T8 lamp designed to pass TCLP
- Average rated life of 24,000 hours
  - 20% longer than conventional T8
  - Extended re-lamp cycles
- Available in 4' length
- Higher initial lumens than OCTRON 700 Series
  - 2850 vs 2800
- Maintains 95% lumen maintenance @ 8000 hours
  - 94% @ 9600 hours
- Improved CRI over OCTRON 700 series
  - 78 vs 75
- Color temperatures: 3000K, 3500K, 4100K
- ECOLOGIC pass federal TCLP limits<sup>1</sup>
- Compatible with QUICKTRONIC® & QUICKTRONIC Professional T8 ballasts
- QUICK 60+® system warranty

<sup>1</sup> Regulations may vary. Check your local and state regulations.

SYLVANIA OCTRON 700 XP ECOLOGIC® fluorescent lamps last 20% longer than conventional T8 lamps. Because lamp life is longer, re-lamp cycles are extended and lamp maintenance costs are reduced.

In addition to longer life, the OCTRON 700 XP ECO lamps deliver higher initial and maintained light levels and improved CRI over the OCTRON 700 series lamps. Higher maintained light levels allow the user more system choices: higher light levels, lower wattage systems or 2-lamp instead of 3-lamp systems. Three popular color temperatures are available: 3000K, 3500K and 4100K.

## Ordering and Specification Information

### OCTRON 700 XP ECOLOGIC LINEAR T8 FLUORESCENT LAMPS

Item Number	Ordering Abbreviation	Watts	Bulb	Base	Nominal Length	Avg. Rated Life (hrs.) <sup>1</sup>	Initial Lumens	Lumens @ 8000 hrs. <sup>2</sup>	CCT	CRI
21711	F032/730XP/ECO <sup>3</sup>	32	T8	Med Bi-pin	48"	24,000	2850	2708	3000K	78
22044	F032/735XP/ECO	32	T8	Med Bi-pin	48"	24,000	2850	2708	3500K	78
21712	F032/741XP/ECO	32	T8	Med Bi-pin	48"	24,000	2850	2708	4100K	78

<sup>1</sup> Based on operation on ANSI reference ballast.

<sup>2</sup> 95% lumen maintenance at 8000 hours, 94% lumen maintenance at 9600 hours

<sup>3</sup> Availability of 730 lamp based on demand.

## Ordering Guide

FO	32	/	730	XP	/	ECO
Fluorescent OCTRON	Wattage: 32		7 = 78 CRI 30 = 3000K 35 = 3500K 41 = 4100K	<b>EX</b> extended <b>P</b> erformance		ECOLOGIC

## Sample Specification

Lamp(s) shall be (a) SYLVANIA OCTRON F032/700 XP/ECO lamp(s) having medium bi-pin bases. Lamp shall pass the existing Federal TCLP limits. Lamps shall have an average rated life of 24,000 hours, 2850 initial lumens, 2708 mean lumens at 8000 hours, a correlated color temperature of (3000K, 3500K or 4100K) and a CRI of 78. The OCTRON lamps shall be operated on dedicated QUICKTRONIC ballasts with complete system warranty from the manufacturer covering lamps and ballasts.



# OCTRON® ECO® Fluorescent Lamps

- Designed to pass federal TCLP test
- Energy efficient T8 lamp
- OCTRON 700 and 800 Series linear 2, 3, 4 and 5-foot lamps
- Same performance as standard OCTRON lamps
- Compatible with QUICKTRONIC® SYSTEM 32, 32PLUS and 32LP
- Available in 3000K, 3500K and 4100K
- 20,000 hour average rated life

SYLVANIA OCTRON T8 ECOLOGIC® fluorescent lamps are designed to meet the Federal Toxic Characteristic Leaching Procedure (TCLP) criteria for classification as non-hazardous waste in most states.<sup>1</sup>

<sup>1</sup> Regulations may vary. Check your local and state regulations.

## Ordering Guide

FO	32	/	7	35	/	ECO
Fluorescent	Wattage:		7 = 75 CRI	30 = 3000K		ECOLOGIC
OCTRON	17, 25, 32		8 = 82 CRI	35 = 3500K		
	or 40 watts			41 = 4100K		

## Ordering and Specification Information

Item Number	Ordering Abbreviation	Nominal Length	Base	Bulb	Avg. Rated Life (hrs) <sup>1</sup>	Initial Lumens	Mean Lumens	Color Temp.	CRI
21918	F017/730/ECO	24"	Medium Bi-Pin	T8	20,000	1300	1170	3000K	75
21769	F017/735/ECO	24"	Medium Bi-Pin	T8	20,000	1300	1170	3500K	75
21770	F017/741/ECO	24"	Medium Bi-Pin	T8	20,000	1300	1170	4100K	75
21937	F025/730/ECO	36"	Medium Bi-Pin	T8	20,000	1950	1755	3000K	75
21941	F025/735/ECO	36"	Medium Bi-Pin	T8	20,000	1950	1755	3500K	75
21942	F025/741/ECO	36"	Medium Bi-Pin	T8	20,000	1950	1755	4100K	75
21997	F032/730/ECO	48"	Medium Bi-Pin	T8	20,000	2800	2520	3000K	75
21998	F032/735/ECO	48"	Medium Bi-Pin	T8	20,000	2800	2520	3500K	75
21999	F032/741/ECO	48"	Medium Bi-Pin	T8	20,000	2800	2520	4100K	75
22102	F040/730/ECO	60"	Medium Bi-Pin	T8	20,000	3500	3150	3000K	75
22103	F040/735/ECO	60"	Medium Bi-Pin	T8	20,000	3500	3150	3500K	75
22104	F040/741/ECO	60"	Medium Bi-Pin	T8	20,000	3500	3150	4100K	75
22135	F017/830/ECO	24"	Medium Bi-Pin	T8	20,000	1350	1240	3000K	82
22136	F017/835/ECO	24"	Medium Bi-Pin	T8	20,000	1350	1240	3500K	82
22137	F017/841/ECO	24"	Medium Bi-Pin	T8	20,000	1350	1240	4100K	82
22138	F025/830/ECO	36"	Medium Bi-Pin	T8	20,000	2150	1975	3000K	82
22139	F025/835/ECO	36"	Medium Bi-Pin	T8	20,000	2150	1975	3500K	82
22140	F025/841/ECO	36"	Medium Bi-Pin	T8	20,000	2150	1975	4100K	82
21777	F032/830/ECO	48"	Medium Bi-Pin	T8	20,000	2950	2710	3000K	82
21779	F032/835/ECO	48"	Medium Bi-Pin	T8	20,000	2950	2710	3500K	82
21781	F032/841/ECO	48"	Medium Bi-Pin	T8	20,000	2950	2710	4100K	82
22144	F040/830/ECO	60"	Medium Bi-Pin	T8	20,000	3650	3355	3000K	82
22145	F040/835/ECO	60"	Medium Bi-Pin	T8	20,000	3650	3355	3500K	82
22146	F040/841/ECO	60"	Medium Bi-Pin	T8	20,000	3650	3355	4100K	82

<sup>1</sup> Based on operation on ANSI reference ballast at 3 hours per start.

## Sample Specification

Lamp shall be an OCTRON ECOLOGIC lamp (F017/ECO, F025/ECO, F032/ECO) having medium bi-pin bases. Lamp shall be designed to pass the Federal TCLP test in force at the time of manufacture. Lamps shall have a correlated color temperature of (3000K, 3500K, or 4100K) and a CRI of (75 or 82). The OCTRON lamp shall be operated on dedicated QUICKTRONIC (System 32, 32LP or 32PLUS) ballast with complete system warranty from one manufacturer covering lamp and ballast.





## OCTRON® XP™ SUPERSAVER® ECO® Fluorescent Lamps

- ECOLOGIC – Designed to pass TCLP<sup>1</sup>
- 94% lumen maintenance
- 3000K, 3500K & 4100K
- 82 CRI
- Retrofit lamp for existing T8 instant start systems
  - 18,000 hour average rated life
- Not dimmable
- 30 Watt, 4-foot, SUPERSAVER energy saving, T8 lamp
  - 2850 Initial lumens
  - 6% energy savings compared to standard 32W T8 lamp
  - Approved for use on QUICKTRONIC® PSX Ballast
  - 24,000 hour average rated life
- 28W, 4-foot SUPERSAVER Energy Saving lamp
  - 2725 initial lumens
  - 12.5% energy savings compared to standard 32W T8 lamp
- 55W, 8-foot SUPERSAVER Energy Saving T8 lamp
  - 5700 lumens
  - 7% energy savings compared to standard 59W T8 single pin lamp

<sup>1</sup> TCLP test results are based on NEMA LL Series standards and are available on request.

<sup>2</sup> Lamp disposal regulations may vary; check your local and state regulations.

SYLVANIA OCTRON XP SUPERSAVER ECOLOGIC® lamps operate on standard T8 instant start systems and provide significant energy savings over standard OCTRON lamps. The initial lumen output and 94% lumen maintenance of the OCTRON XP SUPERSAVER ECOLOGIC lamp help assure that light levels are maintained while energy is saved. These lamps pass the Federal TCLP test, classifying them as non-hazardous waste in most states.<sup>2</sup> Group relamp to realize the benefits of these OCTRON lamps in your facility.

### Ordering Guide

FO	30	/	8	35	XP	/	SS	/	ECO
Fluorescent OCTRON	Wattage = 30		CRI = 82	Color Temperature 30 = 3000K 35 = 3500K 41 = 4100K	EXTENDED PERFORMANCE		SUPERSAVER Actual wattage = 30		ECOLOGIC

### Ordering and Specification Information

Item Number	Ordering Abbreviation	Watts	Bulb	Base	Initial Lumens	Mean Lumens <sup>1</sup>	Avg. Rated Life (hrs.) <sup>2</sup>	CCT	CRI
22063	F030/830XP/SS/ECO	30	T8	Medium bi-pin	2850	2680	18,000	3000K	82
22060	F030/835XP/SS/ECO	30	T8	Medium bi-pin	2850	2680	18,000	3500K	82
22062	F030/841XP/SS/ECO	30	T8	Medium bi-pin	2850	2680	18,000	4100K	82
22177	F028/830XP/SS/ECO	28	T8	Medium bi-pin	2725	2562	18,000	3000K	82
22178	F028/835XP/SS/ECO	28	T8	Medium bi-pin	2725	2562	18,000	3500K	82
22179	F028/841XP/SS/ECO	28	T8	Medium bi-pin	2725	2562	18,000	4100K	82
21099	F096/830XP/SS/ECO	55	T8	Single pin	5700	5360	18,000	3000K	82
22100	F096/835XP/SS/ECO	55	T8	Single pin	5700	5360	18,000	3500K	82
22101	F096/841XP/SS/ECO	55	T8	Single pin	5700	5360	18,000	4100K	82

<sup>1</sup> Measured @ 8000 hours

<sup>2</sup> Based on 3 hours per start on instant start ballasts. At 12 hours/start, average rated life = 26,000 hours on instant start ballasts.

### Sample Specification

Lamp(s) shall be OCTRON XP SUPERSAVER ECOLOGIC lamp(s) having medium bi-pin bases. Lamp(s) shall be designed to pass the Federal TCLP test in force at the time of manufacture. Lamp(s) shall have an average rated life of 18,000 hours at 3 hours per start when operated on T8 instant start ballasts, 94% lumen maintenance at 8000 hours, a correlated color temperature of (3000K, 3500K or 4100K) and a CRI of 82. The OCTRON XP SUPERSAVER ECOLOGIC lamp(s) shall be operated on QUICKTRONIC® electronic, high frequency ballasts with complete system warranty from the manufacturer covering lamps and ballast.



# OCTRON® FO96 & FO96 XP™ ECO® Fluorescent Lamps

- 8-foot OCTRON T8 ECOLOGIC lamps
- Designed to pass Federal TCLP<sup>1</sup> test
- Standard 700 Series lamps
  - 15,000 hours average rated lamp life
  - 75CRI
- **EX**tended **P**erformance 800XP series lamps
  - 18,000 hour average rated lamp life
  - 85CRI
- Single-pin bases
- Operate on the QUICKTRONIC® and QUICKTRONIC Professional series ballasts
- 3000K, 3500K, 4100K color temperatures

<sup>1</sup> TCLP test results are based on NEMA LL Series standards and are available on request.

SYLVANIA 8-foot FO96/700/ECO lamps are interchangeable with FO96/700 lamps. FO96/800XP/ECO lamps are **EX**tended **P**erformance lamps providing 20% longer life, higher initial and mean lumens, and higher CRI than standard FO96/800 lamps. FO96/700/ECO and FO96/800XP/ECO lamps are energy saving longer life alternatives for F96T12 instant start or HO magnetic systems.

## Ordering Guide

FO	96	/	8	35	XP	/	ECO
Fluorescent OCTRON	96" MOL Nominal Length		7 = 75 CRI 8 = 85 CRI	30 = 3000K 35 = 3500K 41 = 4100K Color Temperature	<b>EX</b> tended <b>P</b> erformance		ECO = ECOLOGIC

## Ordering and Specification Information

Item Number	Ordering Abbreviation	Watts	Bulb	Base	Avg. Rated Life (hrs.) <sup>1</sup>	Initial Lumens <sup>2</sup>	Mean Lumens <sup>3</sup>	CCT	CRI	Case Qty.
22030	F096/730/ECO	59	T8	Single pin	15,000	5700	5130	3000K	75	24
21737	F096/735/ECO	59	T8	Single Pin	15,000	5700	5130	3500K	75	24
21736	F096/741/ECO	59	T8	Single pin	15,000	5700	5130	4100K	75	24

<sup>1</sup> Lamp life based on 3 hours/start on reference ballast.

<sup>2</sup> Initial lumens measured at 100 hours of operation.

<sup>3</sup> Mean lumens at 6000 hours. Mean lumens at 4800 hours (40% of rated life of F96T12 Slimline instant start lamp) = 5130.

Item Number	Ordering Abbreviation	Watts	Bulb	Base	Avg. Rated Life (hrs.) <sup>1</sup>	Initial Lumens <sup>2</sup>	Mean Lumens <sup>3</sup>	CCT	CRI	Case Qty.
22036	F096/830XP/ECO	59	T8	Single pin	18,000	6100	5795	3000K	85	24
22034	F096/835XP/ECO	59	T8	Single Pin	18,000	6100	5795	3500K	85	24
22032	F096/841XP/ECO	59	T8	Single pin	18,000	6100	5795	4100K	85	24

<sup>1</sup> Mean lumens at 6000 hours. Mean lumens at 40% of rated life (7200 hours) are 94% of initial (5795).

### Sample Specification

Lamp(s) shall be an OCTRON FO96 (XP) ECOLOGIC T8 single-pin lamp(s) with an average rated life of 15,000 (18,000) hours. Lamp(s) shall be designed to pass the Federal TCLP test. Lamps shall have a CRI of 75 (82) and a color temperature of (3000K, 3500K, 4100K). Lamps shall be operated by QUICKTRONIC or QUICKTRONIC Professional series ballasts. Both lamps and ballasts shall be covered by the QUICK 60+ warranty program.





## OCTRON® CURVALUME® ECO® Fluorescent Lamps

- OCTRON FBO32 700 Series CURVALUME ECOLOGIC® lamps, with CRI of 75 and 20,000 hours average rated life, deliver T8 efficiency at a more affordable price.
- OCTRON FBO32 800 Series CURVALUME ECOLOGIC lamps with CRI of 82, 100 more lumens per lamp and improved lumen maintenance are suitable for areas where improved color and brightness are important.
- OCTRON 800XP™ **EX**tended **P**erformance CURVALUME ECOLOGIC lamps offer 20% longer lamp life, 85 CRI, and 150 more lumens compared to standard OCTRON Curvalume lamps. The excellent lumen maintenance of the XP lamps assures high light levels over the life of the lamps.
- OCTRON XP SUPERSAVER 30W CURVALUME ECO lamps offer 20% longer lamp life and 6% energy savings over standard 6" U-bent T8s on instant start ballasts with similar initial and mean lumens.
- OCTRON 800XPS® **EX**tended **P**erformance **S**uper CURVALUME ECO 1 5/8" or 6" leg spacing lamps deliver the longest average rated life, highest light output, highest CRI and best lumen maintenance of the OCTRON CURVALUME ECOLOGIC family.

SYLVANIA OCTRON FBO32 CURVALUME ECOLOGIC lamps are designed to pass the Federal TCLP test criteria for classification as non-hazardous waste in most states. When paired with QUICKTRONIC® high frequency electronic ballasts, they provide an energy efficient, environmentally friendly system for 2x2 luminaires.

### Ordering Guide

FBO	32	/	8	35	XP	/	6	/	SS	/	ECO
Fluorescent Bent OCTRON	Wattage 32 Watts		8 = 80+ CRI 7 = 70+ CRI	Color Temperature 30 = 3000K 35 = 3500K 41 = 4100K 50 = 5000K	<b>EX</b> TENDED <b>P</b> ERFORMANCE		6" leg spacing		SUPERSAVER		ECOLOGIC

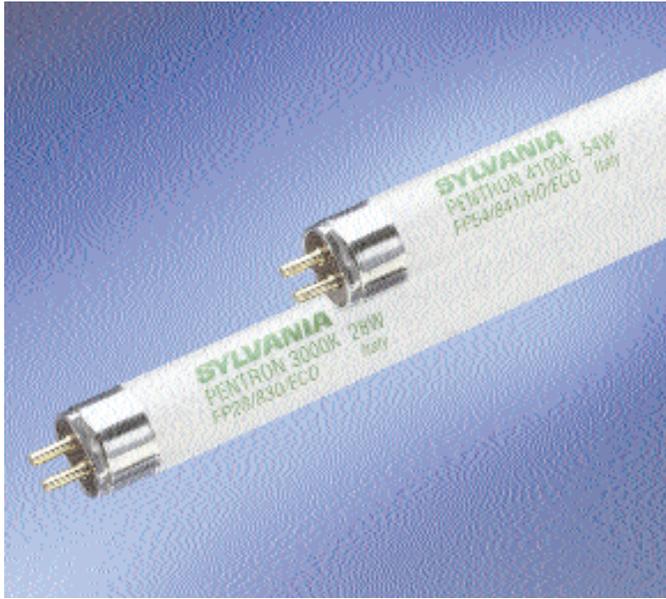
### Ordering and Specification Information

Item Number	Ordering Abbreviation	Watts	Color Temperature	Avg. Rated Life (hrs.)*	Initial Lumens	Mean Lumens	CRI
22046	FB032/730/6/ECO	32	3000K	20,000	2750	2475	75
22051	FB032/735/6/ECO	32	3500K	20,000	2750	2475	75
22052	FB032/741/6/ECO	32	4100K	20,000	2750	2475	75
22053	FB032/750/6/ECO	32	5000K	20,000	2625	2363	75
21663	FB032/830/6/ECO	32	3000K	20,000	2850	2622	82
21670	FB032/835/6/ECO	32	3500K	20,000	2850	2622	82
21671	FB032/841/6/ECO	32	4100K	20,000	2850	2622	82
22170	FB030/830XP/6/SS/ECO	30	3000K	18,000 <sup>1</sup>	2800	2632	82
22171	FB030/835XP/6/SS/ECO	30	3500K	18,000 <sup>1</sup>	2850	2622	82
22172	FB030/841XP/6/SS/ECO	30	4100K	18,000 <sup>1</sup>	2800	2632	82
22054	FB032/830XP/6/ECO	32	3000K	24,000	2900	2755	85
22055	FB032/835XP/6/ECO	32	3500K	24,000	2900	2755	85
22057	FB032/841XP/6/ECO	32	4100K	24,000	2900	2755	85
21552	FB031/830XPS/6/ECO	31	3000K	30,000 <sup>2</sup>	2900	2755	85
21553	FB031/835XPS/6/ECO	31	3500K	30,000 <sup>2</sup>	2900	2755	85
21554	FB031/841XPS/6/ECO	31	4100K	30,000 <sup>2</sup>	2900	2755	85
22094	FB032/830XPS/6/ECO	32	3000K	30,000 <sup>2</sup>	3000	2850	85
22095	FB032/835XPS/6/ECO	32	3500K	30,000 <sup>2</sup>	3000	2850	85
22096	FB032/841XPS/6/ECO	32	4100K	30,000 <sup>2</sup>	3000	2850	85

\* Based on 3 hours per start

<sup>1</sup> On instant start electronic ballast

<sup>2</sup> On PSX electronic ballast



# PENTRON®/ECO® & PENTRON® HO/ECO® T5 Fluorescent Lamps

- High Performance T5 lamps
  - 104 LPW max. for PENTRON
  - 94 LPW max. for PENTRON HO
  - Designed for high frequency electronic ballasts
- Nominal 2', 3', 4', and 5'
  - Approx. 2" shorter than T8 lengths
- Miniature Bi-Pin base
- ECOLOGIC – Pass Federal TCLP limits
- 3000K, 3500K, 4100K, 82 CRI
- 93% lumen maintenance
- Average rated life of 20,000 hours
- Greater luminaire design flexibility
- Peak lumen output at 35°C (95°F)

SYLVANIA PENTRON/ECO and PENTRON HO/ECO – A new product line of slender, 5/8" diameter, TCLP-compliant T5 linear fluorescent lamps with improved system performance characteristics compared to T8 & T12 technology.

Engineered with thermal characteristics which provide improved lumen output in luminaires. PENTRON brings increased design opportunities for unique, highly efficient, low profile lighting.

## Sample Specification

Lamps shall be PENTRON T5/ECO lamps having miniature bi-pin bases and minimum of 93% lumen maintenance. Lamps shall have a correlated color temperature of (3000K, 3500K, 4100K) and a Color Rendering Index of 82. The Pentron T5 lamps shall be operated on dedicated QUICKTRONIC® PS ballasts having a primary voltage of (120V, 277V) with complete system warranty from the manufacturer covering lamps and ballasts.

Lamps shall be PENTRON HO/ECO T5 lamps having miniature bi-pin bases and a minimum of 93% lumen maintenance. Lamps shall have a correlated color temperature of (3000K, 3500K, 4100K) and a CRI of 82. The Pentron HO T5 lamps shall be operated on dedicated QUICKTRONIC PHO ballasts having a primary voltage of (120V, 277V) with complete system warranty from the manufacturer covering lamps and ballasts.

## Ordering and Specification Information

### PENTRON

Item Number	Ordering Abbreviation	Base	Watts	Initial Lumens @25°C	Initial Lumens @35°C	Bulb	Nominal length (mm)	Average Rated Life (hours)*	Color Temp	CRI
20907	FP14/830/ECO	Miniature Bi-Pin	14	1200	1350	T-5	549	20,000	3000K	82
20908	FP14/835/ECO	Miniature Bi-Pin	14	1200	1350	T-5	549	20,000	3500K	82
20914	FP14/841/ECO	Miniature Bi-Pin	14	1200	1350	T-5	549	20,000	4100K	82
20919	FP21/830/ECO	Miniature Bi-Pin	21	1900	2100	T-5	849	20,000	3000K	82
20921	FP21/835/ECO	Miniature Bi-Pin	21	1900	2100	T-5	849	20,000	3500K	82
20924	FP21/841/ECO	Miniature Bi-Pin	21	1900	2100	T-5	849	20,000	4100K	82
20868	FP28/830/ECO	Miniature Bi-Pin	28	2600	2900	T-5	1149	20,000	3000K	82
20901	FP28/835/ECO	Miniature Bi-Pin	28	2600	2900	T-5	1149	20,000	3500K	82
20902	FP28/841/ECO	Miniature Bi-Pin	28	2600	2900	T-5	1149	20,000	4100K	82
20925	FP35/830/ECO	Miniature Bi-Pin	35	3300	3650	T-5	1449	20,000	3000K	82
20926	FP35/835/ECO	Miniature Bi-Pin	35	3300	3650	T-5	1449	20,000	3500K	82
20927	FP35/841/ECO	Miniature Bi-Pin	35	3300	3650	T-5	1449	20,000	4100K	82

\*Based on 3 hrs per start on electronic programmed start

### PENTRON HO

Item Number	Ordering Abbreviation	Base	Watts	Initial Lumens @25°C	Initial Lumens @35°C	Bulb	Nominal length (mm)	Average Rated Life (hours)*	Color Temp	CRI
20928	FP24/830/HO/ECO	Miniature Bi-Pin	24	1750	2000	T-5	549	20,000	3000K	82
20924	FP24/835/HO/ECO	Miniature Bi-Pin	24	1750	2000	T-5	549	20,000	3500K	82
20931	FP24/841/HO/ECO	Miniature Bi-Pin	24	1750	2000	T-5	549	20,000	4100K	82
20932	FP39/830/HO/ECO	Miniature Bi-Pin	39	3100	3500	T-5	849	20,000	3000K	82
20933	FP39/835/HO/ECO	Miniature Bi-Pin	39	3100	3500	T-5	849	20,000	3500K	82
20934	FP39/841/HO/ECO	Miniature Bi-Pin	39	3100	3500	T-5	849	20,000	4100K	82
20903	FP54/830/HO/ECO	Miniature Bi-Pin	54	4450	5000	T-5	1149	20,000	3000K	82
20904	FP54/835/HO/ECO	Miniature Bi-Pin	54	4450	5000	T-5	1149	20,000	3500K	82
20906	FP54/841/HO/ECO	Miniature Bi-Pin	54	4450	5000	T-5	1149	20,000	4100K	82

\*Based on 3 hrs per start on electronic programmed start

Note: FP80/HO/ECO Available 2004.



## FB34 CURVALUME® SUPERSAVER® ECO® Fluorescent Lamps

- 34 Watt U-shaped lamps with 6" leg spacing
- Designed to pass Federal TCLP<sup>1</sup> test
- Cool White (CW) and Warm White (WW) phosphors
- Same performance and ballasting requirements as standard lamps
- Use with other ECOLOGIC lamps for a TCLP compliant lighting installation

SYLVANIA OCTRON® T8 ECOLOGIC® fluorescent lamps are designed to pass the Federal Toxic Characteristic Leaching Procedure (TCLP) criteria for classification as non-hazardous waste in most states<sup>2</sup>.

<sup>1</sup> TCLP test results are based on NEMA LL Series standards and are available on request.

<sup>2</sup> Regulations may vary. Check your local and state regulations.

SYLVANIA FB34 CURVALUME SUPERSAVER ECOLOGIC lamps are designed to pass the Federal TCLP criteria for classification as non-hazardous waste in most states.

FB34 CURVALUME SUPERSAVER ECOLOGIC lamps with 6" leg spacing are electrically and physically interchangeable with standard FB34 CURVALUME SUPERSAVER lamps. They deliver the same light output and life. Install these lamps with other ECOLOGIC lamps for a TCLP compliant lighting installation.

### Ordering and Specification Information

Item Number	Ordering Abbreviation	Watts	Bulb	Base	Avg. Rated Life (hrs.) <sup>1</sup>	Initial Lumens <sup>2</sup>	Mean Lumens <sup>3</sup>	CCT	CRI
24054	FB34/CW/6/SS/ECO	34	T12	Medium bi-pin	18,000	2600	2236	4200K	62
24052	FB34/WW/6/SS/ECO	34	T12	Medium bi-pin	18,000	2650	2279	3000K	52

<sup>1</sup> Lamp life based on operation 3 hours per start on reference ballast.

<sup>2</sup> Measured at 100 hours of operation.

<sup>3</sup> Measured at 40% of average rated life.

### Ordering Guide

<b>FB</b>	<b>34</b>	/	<b>CW</b>	/	<b>6</b>	/	<b>SS</b>	/	<b>ECO</b>
Fluorescent Bent	Wattage: 34 Watts		CW = Cool White WW = Warm White		6 inch leg spacing		SuperSaver		ECOLOGIC

#### Sample Specification

Lamp(s) shall be SYLVANIA FB34 CURVALUME SUPERSAVER ECOLOGIC lamps. Lamp(s) shall be designed to pass the Federal TCLP test criteria. Lamps shall have 6-inch leg spacing and medium bi-pin bases. Lamp(s) shall have a correlated color temperature of (3000K or 4200K) and a CRI of (52 or 62).



## T12 ECO® Fluorescent Lamps

- Designed to pass TCLP test
- DESIGNER® 700 & 800 Series utilize rare earth phosphors, providing:
  - Higher initial lumens
  - Better lumen maintenance
  - Improved CRI
- SUPERSAVER® T12 lamps
- Same performance and ballasting requirements as standard T12 lamps

SYLVANIA T12 ECOLOGIC® fluorescent lamps are designed to satisfy the Federal Toxic Characteristic Leaching Procedure (TCLP) criteria for classification as non-hazardous waste in most states.<sup>1</sup>

<sup>1</sup> Regulations may vary. Check your local and state regulations.

### Ordering and Specification Information

#### ECOLOGIC FLUORESCENT LAMPS — F40T12, RAPID START, (MEDIUM BI-PIN BASE, 48" NOMINAL LENGTH)

Item Number	Ordering Abbreviation	Description	Nominal Wattage (in)	Average Rated Life (Hours) <sup>1</sup>	Initial Lumens	Mean Lumens	Color Temp.	CRI
24538	F34WW/SS/ECO	Warm White SuperSaver	34	20,000	2750	2340	3000K	52
24521	F40/D30/ECO	Designer 700	40	20,000	3200	2820	3000K	70
24535	F34/D30/SS/ECO	Designer 700 SuperSaver	34	20,000	2800	2460	3000K	70
24543	F40/D830/ECO	Designer 800	40	20,000	3300	3000	3000K	80
24544	F34/D830/SS/ECO	Designer 800 SuperSaver	34	20,000	2900	2640	3000K	80
24537	F40/D35/ECO	Designer 700	40	20,000	3200	2820	3500K	70
24540	F34/D35/SS/ECO	Designer 700 SuperSaver	34	20,000	2800	2460	3500K	70
24546	F40/D835/ECO	Designer 800	40	20,000	3300	3000	3500K	80
24547	F34/D835/SS/ECO	Designer 800 SuperSaver	34	20,000	2900	2640	3500K	80
24541	F40/D41/ECO	Designer 700	40	20,000	3200	2820	4100K	70
24542	F34/D41/SS/ECO	Designer 700 SuperSaver	34	20,000	2800	2460	4100K	70
24553	F40/D841/ECO	Designer 800	40	20,000	3300	3000	4100K	80
24554	F34/D841/SS/ECO	Designer 800 SuperSaver	34	20,000	2900	2640	4100K	80
24566	F34LW/SS/ECO	Lite White SuperSaver	34	20,000	2825	2400	4150K	48
24596	F34CW/SS/ECO	Cool White SuperSaver	34	20,000	2700	2295	4200K	62
25122	F48T12/CW/HO/ECO	Cool White High Output	60	12,000	4050	3281	4200K	62
25171	F72T12/CW/HO/ECO	Cool White High Output	85	12,000	6250	5063	4200K	62
25001	F96T12/CW/HO/SS/ECO	Cool White High Output Supersaver	95	12,000	8000	6480	4200K	62
25129	F96T12/CW/HO/CT/ECO	Cool White High Output Cold Temp.	110	12,000	8000	6480	4200K	62

<sup>1</sup> Based on 3 hours per start on magnetic Rapid Start ballast.

### Ordering Guide

F	40	/	D35	/	SS	/	ECO
Fluorescent	40 = Watts		D = Designer Series 70 CRI 30 = 3000K 35 = 3500K 41 = 4100K CW = Cool White WW = Warm White		SS = SuperSaver 34 Watts		ECOLOGIC

### Sample Specification

Lamps shall be SYLVANIA ECOLOGIC having medium bi-pin or RDC bases. Lamp shall be designed to pass the Federal TCLP test in force at the time of manufacture. Lamps shall have a correlated color temperature of (3000K, 3500K, 4100K, 4150K or 4200K) and a CRI of (48, 52, 62, 70 or 80).





# T12 SLIMLINE ECO® Fluorescent Lamps

- All Sylvania ECOLOGIC® lamps comply with EPACT
- DESIGNER® 700 & 800 Series utilize rare earth phosphors which provides:
  - Higher initial lumens
  - Better lumen maintenance
  - Improved CRI
- Energy efficient SUPERSAVER® T12 lamps
- Same performance and ballasting requirements as standard T12 lamps

SYLVANIA T12 ECOLOGIC fluorescent lamps are designed to satisfy the Federal Toxic Characteristic Leaching Procedure (TCLP) criteria for classification as non-hazardous waste in most states.<sup>1</sup>

<sup>1</sup> Regulations may vary. Check your local and state regulations.

### Sample Specification

Lamps shall be Sylvania Slimline ECOLOGIC F96T12 having single pin bases. Lamps shall have a correlated color temperature of (3000K, 3500K, 4100K, 4200K or 6500K) and a CRI of (48, 52, 62, 70, 80 or 88). Lamps shall be designed to pass the Federal TCLP test in effect at the time of manufacture.

## Ordering and Specification Information

ECOLOGIC Fluorescent Lamps – F96T12, Instant Start, (Slimline, single pin bases, 96" nominal length)

Item Number	Ordering Abbreviation	Description	Nominal Watts (in)	Average Rated Life (Hours) <sup>1</sup>	Initial Lumens	Mean Lumens	Color Temp.	CRI
24827	F48T12/CW/ECO	Cool White	39	9000	2820	2482	4200K	62
24836	F48T12/D/ECO	Daylight	39	9000	2450	2156	6500K	76
29795	F96T12/WW/SS/ECO	Warm White SuperSaver	60	12,000	5500	4840	3000K	52
29796	F96T12/D30/ECO	Designer 700	75	12,000	6420	5906	3000K	70
29809	F96T12/D30/SS/ECO	Designer 700 SuperSaver	60	12,000	5600	5152	3000K	70
29856	F96T12/D830/ECO	Designer 800	75	12,000	6550	6157	3000K	80
29854	F96T12/D830/SS/ECO	Designer 800 SuperSaver	60	12,000	5800	5452	3000K	80
29686	F96T12/D35/ECO	Designer 700	75	12,000	6420	5906	3500K	70
29808	F96T12/D35/SS/ECO	Designer 700 SuperSaver	60	12,000	5600	5152	3500K	70
29838	F96T12/D835/ECO	Designer 800	75	12,000	6550	6157	3500K	80
29859	F96T12/D835/SS/ECO	Designer 800 SuperSaver	60	12,000	5800	5452	3500K	80
29798	F96T12/D41/ECO	Designer 700	75	12,000	6420	5906	4100K	70
29853	F96T12/D41/SS/ECO	Designer 700 SuperSaver	60	12,000	5600	5152	4100K	70
29850	F96T12/D841/ECO	Designer 800	75	12,000	6550	6157	4100K	80
29860	F96T12/D841/SS/ECO	Designer 800 SuperSaver	60	12,000	5800	5452	4100K	80
29505	F96T12/CW/SS/ECO	Cool White SuperSaver	60	12,000	5300	4664	4200K	62

<sup>1</sup> Based on 3 hours per start on magnetic instant start ballasts.

## Ordering Guide

<b>F</b> Fluorescent	<b>96</b> 96 = 96" lamp	<b>T12</b> T = tubular 12 = 12 eighths diameter	/	<b>D835</b> D = Designer Series 8 = 80 CRI 30 = 3000K 35 = 3500K 41 = 4100K CW = Cool White WW = Warm White	/	<b>SS</b> SS = SuperSaver 60 Watts	/	<b>ECO</b> ECOLOGIC
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## DULUX® T/E/IN/EOL ECO® 4-Pin Amalgam Compact Fluorescent Lamps

- Improved high temperature performance
  - Maintains 90% lumens from 40° to 140°F ambient
  - Fast warmup time
- Operates on various ballast systems
  - Flicker free start on electronic ballasts
  - Compatible with QUICKTRONIC® System CF
- Less power consumption than incandescent of comparable light output
- High luminous efficacy
- Long 12,000 hour average rated life
  - Reduces relamping requirement and related cost
- Rare earth triphosphor with 82 CRI
- 2700K, 3000K, 3500K and 4100K
- End-of-Lamp Life (EOL) shutdown protection
- Passes Federal TCLP tests

SYLVANIA DULUX T/E/IN amalgam compact fluorescent lamps are ideal for use in a wide range of temperatures, including high temperatures. They are designed to be operated on energy efficient electronic and dimming ballasts.

DULUX T/E/IN amalgam lamps are ideal for fixtures where shorter overall length lamps with higher lumen packages are required and where lamps may operate at elevated temperatures. In addition, the delta tube configuration of these lamps provides an even light distribution.

### Sample Specification

Lamp(s) shall be (a) DULUX (CF18DT/IN, CF26DT/E/IN, CF32DT/E/IN, CF42DT/E/IN or CF57DT/E/IN triple lamps. Lamp(s) shall have an average rated life of 10,000 hours, a correlated color temperature of (2700K, 3000K, 3500K or 4100K), and a CRI of 82. Lamps shall have a (GX24q-2, GX24q-3, GX24q-4 or GX24q-5) plug-in, 4-pin base and be suitable for use on electronic and dimming ballasts. Lamps shall be operated by QUICKTRONIC ballasts. Both lamps and ballasts covered by the QUICK 60+ system warranty.

### Ordering and Specification Information

Item Number	Ordering Abbreviation	NEMA Generic Designation	Base	Watts	Volts <sup>1</sup>	Amps <sup>1</sup>	Initial Lumens	Mean Lumens <sup>2</sup>	Color Temp.	CRI	Av. Rated Life(hrs.) <sup>3</sup>
20875	CF18DT/E/IN/827	CFM18W/GX24q/27	GX24q-2	18	80	.210	1200	1032	2700K	82	12,000
20876	CF18DT/E/IN/830	CFM18W/GX24q/30	GX24q-2	18	80	.210	1200	1032	3000K	82	12,000
20877	CF18DT/E/IN/835	CFM18W/GX24q/35	GX24q-2	18	80	.210	1200	1032	3500K	82	12,000
20878	CF18DT/E/IN/841	CFM18W/GX24q/41	GX24q-2	18	80	.210	1200	1032	4100K	82	12,000
20879	CF26DT/E/IN/827	CFM26W/GX24q/27	GX24q-3	26	80	.300	1800	1548	2700K	82	12,000
20880	CF26DT/E/IN/830	CFM26W/GX24q/30	GX24q-3	26	80	.300	1800	1548	3000K	82	12,000
20881	CF26DT/E/IN/835	CFM26W/GX24q/35	GX24q-3	26	80	.300	1800	1548	3500K	82	12,000
20882	CF26DT/E/IN/841	CFM26W/GX24q/41	GX24q-3	26	80	.300	1800	1548	4100K	82	12,000
20883	CF32DT/E/IN/827	CFM32W/GX24q/27	GX24q-3	32	100	.320	2400	2064	2700K	82	12,000
20884	CF32DT/E/IN/830	CFM32W/GX24q/30	GX24q-3	32	100	.320	2400	2064	3000K	82	12,000
20885	CF32DT/E/IN/835	CFM32W/GX24q/35	GX24q-3	32	100	.320	2400	2064	3500K	82	12,000
20886	CF32DT/E/IN/841	CFM32W/GX24q/41	GX24q-3	32	100	.320	2400	2064	4100K	82	12,000
20887	CF42DT/E/IN/827	CFM42W/GX24q/27	GX24q-4	42	135	.320	3200	2752	2700K	82	12,000
20888	CF42DT/E/IN/830	CFM42W/GX24q/30	GX24q-4	42	135	.320	3200	2752	3000K	82	12,000
20889	CF42DT/E/IN/835	CFM42W/GX24q/35	GX24q-4	42	135	.320	3200	2752	3500K	82	12,000
20890	CF42DT/E/IN/841	CFM42W/GX24q/41	GX24q-4	42	135	.320	3200	2752	4100K	82	12,000
20895	CF57DT/E/IN/827	CFM57W/GX24q/27	GX24q-5	57	182	.320	4300	3698	2700K	82	12,000
20896	CF57DT/E/IN/830	CFM57W/GX24q/30	GX24q-5	57	182	.320	4300	3698	3000K	82	12,000
20897	CF57DT/E/IN/835	CFM57W/GX24q/35	GX24q-5	57	182	.320	4300	3698	3500K	82	12,000
20899	CF57DT/E/IN/841	CFM57W/GX24q/41	GX24q-5	57	182	.320	4300	3698	4100K	82	12,000

1. @ 25 KHz

2. Measured at 40% (4000 hours) of rated life.

3. Based on 3 hours per start. Number of operating hours when half have failed and half are still operating.

### Ordering Guide

CF	26	DT	/	E	/	IN	/	835
Compact Fluorescent	Wattage 18, 26, 32, 42 or 57 watts	DULUX Triple		For electronic and dimming ballasts		Amalgam		82 CRI 27 = 2700K 30 = 3000K 35 = 3500K 41 = 4100K





## DULUX® D/E EOL ECO® Fluorescent Lamps

- Compact fluorescent lamps for use on dimming and electronic ballasts
- End-of-Lamp Life (EOL) shut down protection
- Pass Federal TCLP tests
  - Pair with linear ECOLOGIC lamps for TCLP compliant installations
- Uses about 1/4 the energy of an incandescent lamp with similar lumen output
- Long 10,000 hour average rated life
  - Typically 10-13 times longer than standard incandescents
  - Reduces relamping requirements and related costs
- Rare earth phosphors – 82 CRI
- 2700K, 3000K, 3500K and 4100K color temperatures
- 86% lumen maintenance

SYLVANIA DULUX D/E EOL ECOLOGIC® lamps are long-life, energy-saving alternatives for incandescent lamps. When paired with SYLVANIA linear ECOLOGIC lamps, all the fluorescent lamps in an installation will be TCLP compliant. Each lamp has a built in feature that will safely shut the lamp down at end of lamp life.

### Ordering and Specification Information

Item Number	Ordering Abbreviation	NEMA Generic Description	Watts	Base	Initial Lumens	Mean Lumens <sup>1</sup>	Color Temp.	CRI	Avg. Rated Life (hrs.) <sup>2</sup>	Amps <sup>3</sup>	Volts <sup>3</sup>
20682	CF13DD/E/827	CFQ13W/G24q/27	13	G24q-1	900	774	2700K	82	12,000	0.165	77
20721	CF13DD/E/830	CFQ13W/G24q/30	13	G24q-1	900	774	3000K	82	12,000	0.165	77
20671	CF13DD/E/835	CFQ13W/G24q/35	13	G24q-1	900	774	3500K	82	12,000	0.165	77
20667	CF13DD/E/841	CFQ13W/G24q/41	13	G24q-1	900	774	4100K	82	12,000	0.165	77
20683	CF18DD/E/827	CFQ18W/G24q/27	18	G24q-2	1250	1075	2700K	82	12,000	0.210	80
20724	CF18DD/E/830	CFQ18W/G24q/30	18	G24q-2	1250	1075	3000K	82	12,000	0.210	80
20672	CF18DD/E/835	CFQ18W/G24q/35	18	G24q-2	1250	1075	3500K	82	12,000	0.210	80
20668	CF18DD/E/841	CFQ18W/G24q/41	18	G24q-2	1250	1075	4100K	82	12,000	0.210	80
20684	CF26DD/E/827	CFQ26W/G24q/27	26	G24q-3	1800	1548	2700K	82	12,000	0.300	80
20722	CF26DD/E/830	CFQ26W/G24q/30	26	G24q-3	1800	1548	3000K	82	12,000	0.300	80
20673	CF26DD/E/835	CFQ26W/G24q/35	26	G24q-3	1800	1548	3500K	82	12,000	0.300	80
20669	CF26DD/E/841	CFQ26W/G24q/41	26	G24q-3	1800	1548	4100K	82	12,000	0.300	80

<sup>1</sup> Measured at 40% (4000 hours) of rated life.

<sup>2</sup> Based on 3 hours per start. Number of operating hours when half have failed and half are still operating.

<sup>3</sup> At 25 KHz

### Ordering Guide

CF	26	DD	/	E	/	8	27
Compact Fluorescent	Wattage: 13, 18, or 26 Watts	DULUX Double		for electronic and dimming ballasts		8 = 82 CRI	27 = 2700K 30 = 3000K 35 = 3500K 41 = 4100K

### Sample Specification

Lamp(s) shall be (a) DULUX D/E ECOLOGIC (CF13DD/E, CF18DD/E or CF26DD/E) lamps with internal end-of-life shut down feature and pass existing Federal TCLP limits. Lamps shall have an average rated life of 10,000 hours, a correlated color temperature of (2700K, 3000K, 3500K or 4100K), and a CRI of 82. Lamps shall have a (G24q-1, G24q-2, G24q-3) plug-in, 4-pin base and be suitable for use on electronic and dimming ballasts. Lamps shall be operated by QUICKTRONIC® Professional ballasts. Both lamps and ballasts covered by the QUICK 60+® system warranty.



## DULUX® D ECO® Compact Fluorescent Lamps

- Use less energy than incandescent of comparable lumen output
- Pass Federal TCLP tests
- Reduced greenhouse gas and mercury emissions from power generation compared to incandescent
- High Efficacy
- Long 10,000 hour average rated life
- Reduces relamping requirements and related cost
- Rare earth phosphors – 82 CRI
- 2700K, 3000K, 3500K and 4100K color temperatures
- Symmetrical light distribution
- Plug-in base with integrated starter and interference suppressor

SYLVANIA DULUX D ECOLOGIC® lamps provide even light distribution and serve as energy-saving replacements for incandescent lamps having comparable light output.

More compact than DULUX S ECOLOGIC, the 9 and 13 Watt DULUX D ECOLOGIC lamps are ideal for retrofit and other energy-saving fixtures where a small overall length is required.

### Ordering Guide

CF	9	DD	/	8	27
Compact Fluorescent	Wattage: 9, 13, 18 or 26 watts	DULUX Double		8 = 82 CRI	27 = 2700K 30 = 3000K 35 = 3500K 41 = 4100K

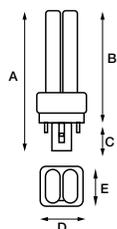
### Ordering and Specification Information

Item Number	Ordering Abbreviation	NEMA Generic Description	Base (2-pin)	Nom. Watts	Initial Lumens	Mean Lumens	Color Temp.	CRI	Avg. Rated Life (hrs.) <sup>1</sup>	Min. Starting Temp. (F/C) <sup>2</sup>
20689	CF9DD/827	CFQ9W/G23/827	G23-2	9	525	470	2700K	82	10,000	14°/-10°
20783	CF9DD/830	CFQ9W/G23/830	G23-2	9	525	470	3000K	82	10,000	14°/-10°
20690	CF9DD/835	CFQ9W/G23/835	G23-2	9	525	470	3500K	82	10,000	14°/-10°
20691	CF13DD/827	CFQ13W/GX23/827	GX23-2	13	780	700	2700K	82	10,000	-4°/-20°
20705	CF13DD/830	CFQ13W/GX23/830	GX23-2	13	780	700	3000K	82	10,000	-4°/-20°
20692	CF13DD/835	CFQ13W/GX23/835	GX23-2	13	780	700	3500K	82	10,000	-4°/-20°
20708	CF13DD/841	CFQ13W/GX23/841	GX23-2	13	780	700	4100K	82	10,000	-4°/-20°
20676	CF18DD/827	CFQ18W/G24d/27	G24d-2	18	1250	1063	2700K	82	10,000	5°/-15°
20709	CF18DD/830	CFQ18W/G24d/30	G24d-2	18	1250	1063	3000K	82	10,000	5°/-15°
20677	CF18DD/835	CFQ18W/G24d/35	G24d-2	18	1250	1063	3500K	82	10,000	5°/-15°
20678	CF18DD/841	CFQ18W/G24d/41	G24d-2	18	1250	1063	4100K	82	10,000	5°/-15°
20679	CF26DD/827	CFQ26W/G24d/27	G24d-3	26	1800	1530	2700K	82	10,000	14°/-10°
20710	CF26DD/830	CFQ26W/G24d/30	G24d-3	26	1800	1530	3000K	82	10,000	14°/-10°
20680	CF26DD/835	CFQ26W/G24d/35	G24d-3	26	1800	1530	3500K	82	10,000	14°/-10°
20681	CF26DD/841	CFQ26W/G24d/41	G24d-3	26	1800	1530	4100K	82	10,000	14°/-10°

<sup>1</sup> Based on 3 hrs per start

<sup>2</sup> At rated line voltage and correct lamp current

### Dimensions



Ordering Abbreviation	(A) Max. Overall Length [in (mm)]	(B) Base Face to Top of Lamp [in (mm)]	(C) Guide Post Length [in (mm)]	(D) Max. Base Length [in (mm)]	(E) Max. Base Width [in (mm)]
CF9DD	4.33 (110)	3.38 (86)	0.9 (23)	1.38 (35)	1.38 (35)
CF13DD	4.65 (118)	3.74 (95)	0.9 (23)	1.38 (35)	1.38 (35)
CF18DD	6.02 (153)	5.12 (130)	0.9 (23)	1.38 (35)	1.38 (35)
CF26DD	6.81 (173)	5.87 (149)	0.9 (23)	1.38 (35)	1.38 (35)

T4 Diameter Tubing = 0.5 inches (12.7mm)

### Sample Specification

Lamps shall be DULUX D ECOLOGIC (CF9DD or CF13DD) low mercury compact fluorescent 2-pin lamps. Lamps shall have a correlated color temperature of (2700K, 3000K, 3500K or 4100K) and a CRI of 82. Lamp shall comply with the existing Federal TCLP limits. Lamp(s) shall have (G23-2 or GX23-2) base with internal starter.





## DULUX® S ECO® Low Mercury Compact Fluorescent Lamps

- About 75% less power consumption than incandescent of comparable light output
- Reduced greenhouse gas and mercury emissions from power generation compared to incandescent
- Two-pin lamps with integral starter
- Available in 2700K, 3000K, 3500K, 4100K & 5000K
  - Not all colors available in all wattages
- 82 CRI
- 10,000-hour average rated life
- ECOLOGIC – passes Federal TCLP tests

DULUX S ECOLOGIC® lamp sizes provide even light distribution and serve as energy saving replacements for incandescent lamps having comparable light output.

### Ordering and Specification Information

Item Number	Ordering Abbreviation	NEMA Generic Description	Base	Watts	Volts <sup>1</sup>	Amps <sup>1</sup>	Initial Lumens	Mean Lumens	Avg. Rated Life (hrs.) <sup>2</sup>	CRI	Min. Starting Temp. (F/C) <sup>1</sup>
20325	CF5DS/827	CF5W/G23/827	G23	5	35	180	230	210	10,000	82	-22°/-30°
20303	CF5DS/841	CFT5W/G23/841	G23	5	35	180	230	210	10,000	82	-22°/-30°
20327	CF7DS/827	CFT7W/G23/827	G23	7	45	180	400	360	10,000	82	-4°/-20°
20310	CF7DS/835	CFT7W/G23/835	G23	7	45	180	400	360	10,000	82	-4°/-20°
20304	CF7DS/841	CFT7W/G23/841	G23	7	45	180	400	360	10,000	82	-4°/-20°
20307	CF7DS/850	CFT7W/G23/850	G23	7	45	180	400	360	10,000	82	-4°/-20°
20329	CF9DS/827	CFT9W/G23/827	G23	9	59	180	580	520	10,000	82	14°/-10°
20333	CF9DS/835	CFT9W/G23/835	G23	9	59	180	580	520	10,000	82	14°/-10°
20305	CF9DS/841	CFT9W/G23/841	G23	9	59	180	580	520	10,000	82	14°/-10°
20308	CF9DS/850	CFT9W/G23/850	G23	9	59	180	580	520	10,000	82	14°/-10°
20331	CF13DS/827	CFT13W/GX23/827	GX23	13	59	180	800	720	10,000	82	14°/-10°
20283	CF13DS/830	CFT13W/GX23/830	GX23	13	59	180	800	720	10,000	82	14°/-10°
20335	CF13DS/835	CFT13W/GX23/835	GX23	13	59	180	800	720	10,000	82	14°/-10°
20306	CF13DS/841	CFT13W/GX23/841	GX23	13	59	180	800	720	10,000	82	14°/-10°
20309	CF13DS/850	CFT13W/GX23/850	GX23	13	59	180	800	720	10,000	82	14°/-10°

<sup>1</sup> At rated line voltage

<sup>2</sup> Based on 3 hours per start

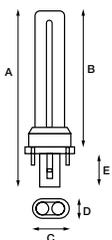
### Ordering Guide

CF	9	DS	/	8	27
Compact Fluorescent	Wattage: 5, 7, 9 or 13 watts	DULUX Single		8 = 82 CRI	27 = 2700K 30 = 3000K 35 = 3500K 41 = 4100K

### Sample Specification

Lamps shall be DULUX S ECOLOGIC (CF5/ECO, CF7/ECO, CF9/ECO, CF13/ECO) low mercury compact fluorescent 2-pin lamps. Lamps shall have a correlated color temperature of (2700K, 3000K, 3500K, 4100K or 5000K). Lamps shall be designed to pass the Federal TCLP test in effect at the time of manufacture.

### Dimensions



Ordering Abbreviation	(A) MOL [in (mm)]	(B) Max. Base Face to Top of Lamp [in (mm)]	(C) Max. Base Length [in (mm)]	(D) Max. Base Width [in (mm)]	(E) Max. Guide Post Length [in (mm)]
CF5DS	4.21 (107)	3.26 (83.0)	1.28 (32.5)	0.83 (21.0)	0.9 (23)
CF7DS	5.31 (135)	4.41 (112.0)	1.28 (32.5)	0.83 (21.0)	0.9 (23)
CF9DS	6.50 (165)	5.60 (142.0)	1.28 (32.5)	0.83 (21.0)	0.9 (23)
CF13DS	7.09 (180)	6.10 (155.0)	1.28 (32.5)	0.83 (21.0)	0.9 (23)

T4 Diameter Tubing = 0.5 inches (12.7mm)



# METALARC® POWERBALL™ CERAMIC & METALARC PRO-TECH® PAR38

Ceramic & Quartz Open Fixture PAR38 Metal Halide Lamps

- Operate in open or enclosed fixtures
- ±200K maximum color shift over life
- Universal operating position
- Compact light sources improve fixture optics
- Ideal for open recessed cans or track lighting fixtures
- Quartz Pro-Tech design for containment and UV reduction

## POWERBALL CERAMIC

- Available in 70W and 100W and three beam spreads
- Improved lamp to lamp color consistency
- Excellent CRI yields more natural colors
- Long life and high efficacy
- UV Stop shroud technology significantly reduces UV output and minimizes discoloration and fading of materials

SYLVANIA METALARC POWERBALL CERAMIC lamps meet today's color-critical needs by combining conventional metal halide pulse start characteristics, such as good efficacy and long life, with improved lamp-to-lamp color consistency and high CRI. SYLVANIA's POWERBALL lamps use a patented rounded arc tube shape, which allows for more uniform temperature and improved color consistency.

SYLVANIA METALARC PRO-TECH PAR38/ECO lamps provide the light quality of Sylvania's low wattage metal halide lamps, the added assurance of safety found in the METALARC PRO-TECH design, and the flexibility of a PAR lamp.

## Ordering Guide

MP, MCP	70	PAR38	/	U	/	FL35	/	ECO
METALARC PRO-TECH Metal Halide MCP = METALARC POWERBALL CERAMIC	Wattage: 70, 100 or 150 watts	Parabolic Reflector		Universal operating position		Beam type and beam angle SP = Spot FL = Flood VWFL = Very Wide Flood		ECOLOGIC

## Ordering and Specification Information

Item Number	Ordering Abbreviation	Watts	Base	ANSI Spec. Number	Beam Angle/ CBCP	Initial Lumens	Avg. Rated Life (hrs.) <sup>1</sup>	Color Temp.	CRI <sup>2</sup>
64590	MP70PAR38/U/SP20/ECO	70	E26 Med Skt	M98	20°/18,000	3400	8500	3200K	75
64592	MP70PAR38/U/FL35/ECO	70	E26 Med Skt	M98	35°/10,000	3400	8500	3200K	75
64594	MP70PAR38/U/VWFL65/ECO	70	E26 Med Skt	M98	65°/3000	3400	8500	3200K	75
64749	MCP70PAR38/U/830/SP/ECO	70	E26 Med Skt	M139/O M98/O	15°/40,000	4300	10,000	3000K	85
64750	MCP70PAR38/U/830/FL/ECO	70	E26 Med Skt	M139/O M98/O	25°/16,000	4300	10,000	3000K	85
64751	MCP70PAR38/U/830/VWFL/ECO	70	E26 Med Skt	M139/O M98/O	65°/3500	4300	10,000	3000K	85
64580	MP100PAR38/U/SP20/ECO	100	E26 Med Skt	M90	20°/26,000	5800	8500	3000K	75
64582	MP100PAR38/U/FL35/ECO	100	E26 Med Skt	M90	35°/12,000	5800	8500	3000K	75
64584	MP100PAR38/U/VWFL65/ECO	100	E26 Med Skt	M90	65°/4500	5800	8500	3000K	75
64593	MP150PAR38/U/SP20/ECO	150	E26 Med Skt	M102	20°/34,000	8800	8500	3200K	75
64597	MP150PAR38/U/FL35/ECO	150	E26 Med Skt	M102	35°/17,000	8800	8500	3200K	75
64599	MP150PAR38/U/VWFL65/ECO	150	E26 Med Skt	M102	65°/7500	8800	8500	3200K	75
64752	MCP100PAR38/U/830/SP/ECO	100	E26 Med Skt	M90/O M140/O	15°/58,000	6500	12,000	3000K	85
64753	MCP100PAR38/U/830/FL/ECO	100	E26 Med Skt	M90/O M140/O	25°/25,000	6500	12,000	3000K	85
64754	MCP100PAR38/U/830/VWFL/ECO	100	E26 Med Skt	M90/O M140/O	60°/6000	6500	12,000	3000K	85

<sup>1</sup> Average rated life based on 10 hours per start on ANSI ballast

<sup>2</sup> For higher CRI, use SYLVANIA METALARC POWERBALL CERAMIC lamps

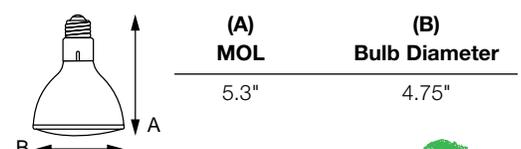
### Sample Specification

Lamp(s) shall be METALARC POWERBALL ceramic PAR38 lamp(s), and shall be constructed with a ceramic arc-tube. Lamp(s) shall have a CRI of 85, CCT of 3000K, and shall exhibit a maximum color shift of ±200K over life. Lamps shall be designed to pass the Federal TCLP test in effect at the time of manufacture.

### Sample Specification

Lamp(s) shall be METALARC PRO-TECH PAR38 / ECO lamp(s) for use in open or enclosed luminaries with an 8500-hour average rated life. Lamps shall exhibit a correlated color temperature of 3200K, a maximum color shift of ±200K over life, and a CRI of 75. Lamps shall be designed to pass the Federal TCLP test in effect at the time of manufacture.

## Dimensions





# LUMALUX® MERCURY FREE / ECO®

## Mercury and Lead-Free High Pressure Sodium Lamps

- Breakthrough Technology
- Mercury-free arc tube
- Lead-free hard glass outer jacket
- Welded, lead-free mogul base
- May reduce disposal costs
- Exclusive ceramic arc tube with reformulated fill
- Lead-free welded base allows a maximum base temperature of 250°C; 40°C higher than ANSI specification for soldered bases
- Direct replacement for standard HPS, maintaining same ballasting requirements
- Meets all physical and electrical ANSI requirements
- Equivalent performance to standard HPS lamps

SYLVANIA LUMALUX MERCURY FREE / ECO lamps incorporate the latest technology to eliminate both mercury and lead and thus allow them to pass the Federal TCLP test.

LUMALUX HgF / ECO lamps are constructed using an exclusive ceramic arc tube, a reformulated mercury-free fill, and a lead-free welded base. In addition, these lamps operate on standard HPS ballasts and have life and efficacy ratings equivalent to standard HPS.

### Ordering and Specification Information

Item Number	Ordering Abbreviation	Bulb	Base	ANSI Spec. Number	Avg. Rated Life (hrs.) <sup>1</sup>	Initial Lumens	Mean Lumens <sup>2</sup>
67565	LU70/HgF/ECO	ET23.5	E39 Mogul	S62	24,000	6000	5100
67558	LU100/HgF/ECO	ET23.5	E39 Mogul	S54	24,000	9500	8500
67566	LU150/55/HgF/ECO	ET23.5	E39 Mogul	S55	24,000	15,500	13,200

<sup>1</sup> Average rated life based on 10 hours per start

<sup>2</sup> Mean lumens rating is measured at 40% of rated life

### System Benefits

- Eliminates the need to test lamps for lead and mercury
- Eliminates confusion regarding testing and disposing of lamps
- Eliminates the need to recycle spent lamps or dispose of spent lamps as hazardous waste
- May reduce lamp disposal costs

### Sample Specification

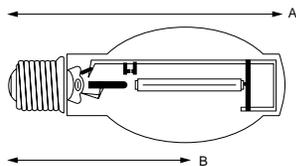
Lamps shall be LUMALUX MERCURY FREE / ECO high pressure sodium lamps that are both lead-free and mercury-free. Lamps shall include a welded, lead-free brass base, a lead-free glass outer jacket, and a mercury-free high pressure sodium arc tube. Lamps shall be a direct retrofit on existing ANSI designated ballasts of similar wattage of standard high-pressure sodium lamps and shall meet existing ANSI specifications for those corresponding wattages. Lamps shall be designed to pass the Federal TCLP test in effect at the time of manufacture.

### Ordering Guide

LU	/	70	/	HgF	/	ECO
LUMALUX		Wattage:		Mercury Free		ECOLOGIC
High Pressure		70, 100				
Sodium		or 150 watts				

### Dimensions

Ordering Abbreviation	(A) MOL	(B) LCL
LU70/HgF/ECO	7.75"	5.0"
LU100/HgF/ECO	7.75"	5.0"
LU150/55/HgF/ECO	7.75"	5.0"





# LUMALUX PLUS®/ECO®

## Non-cycling, Reduced Mercury and Lead-Free High Pressure Sodium Lamps

- Average rated lamp life of 30,000 hours
- 80% lamp survival at 24,000 hours  
65% lamp survival at 30,000 hours
- Positive end-of-life indicator means quicker identification of outages and less repeat trips
- Lamp design eliminates voltage rise (standard high pressure sodium lamps may exhibit voltage rise of 30 or 60 volts)
- Passes Federal TCLP limit. Lead-free and up to 90% less mercury than standard HPS lamps
- Same light output as standard LUMALUX HPS lamps
- Lead-Free welded base allows a maximum base temperature of 250°C; 40°C higher than ANSI specification for lead soldered bases
- Direct replacements for standard HPS; operates on ballasts of similar wattage
- Same warm-up time and hot restrike time as standard HPS

SYLVANIA LUMALUX PLUS / ECO lamps incorporate the latest technology to eliminate the end-of-life cycling of HPS lamps. They remain off at end-of-life. These lamps have an average rated life of 30,000 hours. This non-cycling technology reduces unnecessary maintenance trips, thus lowering labor and maintenance costs.

### Ordering and Specification Information

Item Number	Ordering Abbreviation	Bulb	Base	ANSI Spec. Number	Avg. Rated Life (hrs.) <sup>1</sup>	Initial Lumens	Mean Lumens <sup>2</sup>
67607	LU50/PLUS/ECO	ET23.5	E39 Mogul	S68	30,000	4000	3600
67497	LU70/PLUS/ECO	ET23.5	E39 Mogul	S62	30,000	6300	5600
67559	LU100/PLUS/ECO	ET23.5	E39 Mogul	S54	30,000	9800	8550
67494	LU150/55/PLUS/ECO	ET23.5	E39 Mogul	S55	30,000	16,000	14,400
67495	LU200/PLUS/ECO	ET18	E39 Mogul	S66	30,000	22,000	19,800
67572	LU250/PLUS/ECO	ET18	E39 Mogul	S50	30,000	29,000	26,100
67312	LU400/PLUS/ECO	ET18	E39 Mogul	S51	30,000	50,000	45,000

<sup>1</sup> Average rated life based on 10 hours per start

<sup>2</sup> Mean lumen rating is measured at 40% of rated life

### System Maintenance Benefits

- Easier identification of lamp outages
- Eliminates repeat trips due to lamp cycling, saving the cost of additional service trips
- Longer average rated life than standard high pressure sodium, reducing maintenance costs

### Ordering Guide

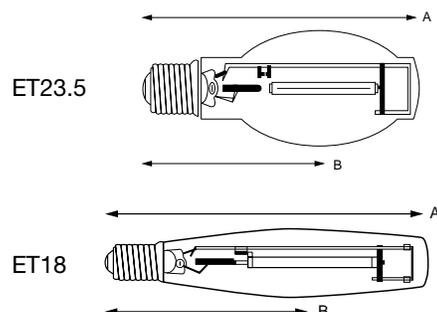
LU	70	/	PLUS	/	ECO
LUMALUX®	Wattage:		Non-Cycling		ECOLOGIC
High Pressure Sodium	50, 70, 100, 150, 200, 250 or 400 watts				

### Sample Specification

Lamps shall be LUMALUX PLUS / ECO non-cycling, high pressure sodium lamp(s) and shall contain up to 90% less mercury than a standard high-pressure sodium lamp. Lamps shall include a welded, lead-free brass base. Lamps shall be a direct retrofit on existing ANSI designated ballasts of similar wattage of standard high-pressure sodium lamps and shall meet existing ANSI specifications for those corresponding wattages. Lamps shall remain off at the end of life and shall not cycle. Lamps shall be designed to pass the Federal TCLP test in effect at the time of manufacture.

### Dimensions

Ordering Abbreviation	(A) MOL	(B) LCL
LU50/PLUS/ECO	7.75"	5.0"
LU70/PLUS/ECO	7.75"	5.0"
LU100/PLUS/ECO	7.75"	5.0"
LU150/55/PLUS/ECO	7.75"	5.0"
LU200/PLUS/ECO	9.75"	5.75"
LU250/PLUS/ECO	9.75"	5.75"
LU400/PLUS/ECO	9.75"	5.75"





# LUMALUX®/ECO® High Pressure Sodium Lamps

- May reduce disposal costs
- Direct replacement for standard HPS lamps that do not pass the Federal TCLP test
- Meet all physical and electrical ANSI requirements
- Very high efficacy: Up to 125LPW
- Lamps available from 50 to 400 watts in mogul base
- Equivalent performance to standard HPS
- Universal operating position
- Lead-free glass jacket
- These mogul based lamps use welded, lead-free bases allowing a maximum base temperature of 250°C, 40°C higher than ANSI specification for soldered bases

SYLVANIA standard LUMALUX lamps have always been known for high efficacy, long life, and reliability. In addition to these attributes, the new LUMALUX/ECO lamps have sufficiently low mercury and lead content to pass the Federal TCLP test. These TCLP-passing ECOLOGIC® lamps include some of the most popular LUMALUX HPS lamps available.

LUMALUX/ECO lamps have performance ratings comparable to the standard LUMALUX lamps they replace. Lamp descriptions of those types that pass the Federal TCLP test are identified by the addition of the suffix “ECO”. Item numbers for these lamps have not changed. In addition, the word “ECOLOGIC” is stamped on the base making identification easier at end-of-life.

## Ordering Guide

LU	70	/	ECO
LUMALUX High Pressure Sodium	Wattage: 50, 70, 100, 150, 310, or 400, watts		ECOLOGIC ECO (TCLP passing)

## Sample Specification

Lamps shall be LUMALUX / ECO high pressure sodium lamps. Lamps shall include a welded, lead-free brass base, a lead-free glass outer jacket, and shall be a direct retrofit standard HPS. Lamps shall be designed to pass the Federal TCLP test in effect at the time of manufacture.

## Ordering and Specification Information

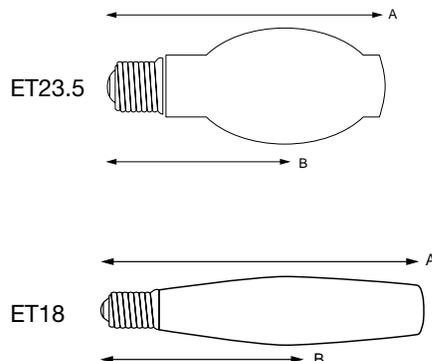
Item Number	Ordering Abbreviation	Watts	Bulb	Base	ANSI Spec.	Avg. Rated Life (hrs.) <sup>1</sup>	Initial Lumens	Mean Lumens <sup>2</sup>
67510	LU50/ECO	50	ET23.5	E39 Mogul	S68	24,000+	4000	3600
67512	LU70/ECO	70	ET23.5	E39 Mogul	S62	24,000+	6300	5500
67514	LU100/ECO	100	ET23.5	E39 Mogul	S54	24,000+	9500	8000
67516	LU150/55/ECO	150	ET23.5	E39 Mogul	S55	24,000+	16,000	13,800
67576	LU200/ECO	200	ET18	E39 Mogul	S66	24,000+	22,000	19,800
67578	LU250/ECO	250	ET18	E39 Mogul	S50	24,000+	29,000	26,100
67580	LU310/ECO	310	ET18	E39 Mogul	S67	24,000+	37,000	33,300
67533	LU400/ECO	400	ET18	E39 Mogul	S51	24,000+	50,000	45,000

<sup>1</sup> Average rated life based on 10 hours per start

<sup>2</sup> Mean lumens rating is measured at 50% of rated life

## Dimensions

Ordering Abbreviation	(A) MOL	(B) LCL)
LU50/ECO	7.75"	5.0"
LU70/ECO	7.75"	5.0"
LU100/ECO	7.75"	5.0"
LU150/55/ECO	7.75"	5.0"
LU200/ECO	9.75"	5.75"
LU250/ECO	9.75"	5.75"
LU310/ECO	9.75"	5.75"
LU400/ECO	9.75"	5.75"





# CAPSYLITE IR®

## Halogen PAR 20, PAR30 & PAR38 Reflector Lamps

- Features a halogen inner capsule with an infrared conserving coating for maximum energy efficiency
- IR conserving capsule is combined with State-of-the-Art SPL optics to deliver the maximum lumens on the target and a smooth, precise beam pattern
- Superior 3000 hour life
- IR conserving capsule produces more light with fewer watts than conventional halogen lamps, reducing energy consumption and heat generation
- Crisp, white halogen light and consistent lamp-to-lamp optical performance
- IR conserving coating and hardglass lens further reduce the already low level of UV present in standard halogen PAR lamps

SYLVANIA CAPSYLITE IR lamps offer substantial energy savings, great color, long life and State-of-the-Art SPL optics.

The combination of an inner halogen capsule which is coated with a special infrared conserving filter and the unique SYLVANIA SPL optical system make CAPSYLITE IR lamps the best choice when constant crisp, white light and energy savings are required. The high luminous efficacy of the

CAPSYLITE IR lamp is achieved by using an infrared reflective coating on the inner halogen capsule that reflects the radiated infrared energy, which would be otherwise wasted, back into the lamp capsule. Recycling the invisible infrared energy lowers the power consumption of the capsule and produces more visible light per watt.

### Ordering and Specification Information

	Item Number	Ordering Abbreviation	Watts	Volts	Av. Rated Life (hrs.)	CBCP	Beam Angle	Lumens	MOL
PAR20 IR	14164	40PAR20/CAP/IR/NSP10	40	120	4000	4650	10°	600	3 1/8"
	14166	40PAR20/CAP/IR/NFL30	40	120	4000	1210	30°	600	3 1/8"
	14130	40PAR20/CAP/IR/WFL40	40	120	4000	910	40°	600	3 1/8"
PAR30 IR	14355	50PAR30/CAP/IR/NSP9	50	120	3000	13,000	9°	900	3 5/8"
	14109	50PAR30/CAP/IR/NSP9	50	130	3000	13,000	9°	900	3 5/8"
	14354	50PAR30/CAP/IR/NFL25	50	120	3000	2900	25°	900	3 5/8"
	14132	50PAR30/CAP/IR/NFL25	50	130	3000	2900	25°	900	3 5/8"
	14714	50PAR30/CAP/IR/FL40	50	120	3000	1400	40°	900	3 5/8"
	14131	50PAR30/CAP/IR/FL40	50	130	3000	1400	40°	900	3 5/8"
PAR38 IR	14136	50PAR/CAP/IR/SP9	50	120	3000	14,000	9°	850	5 5/16"
	14124	50PAR/CAP/IR/SP9	50	130	3000	14,000	9°	850	5 5/16"
	14138	50PAR/CAP/IR/NFL25	50	120	3000	3000	25°	850	5 5/16"
	14125	50PAR/CAP/IR/NFL25	50	130	3000	3000	25°	850	5 5/16"
	14126	55PAR/CAP/IR/XPSP9	55	120	6000	14,000	9°	800	5 5/16"
	14127	55PAR/CAP/IR/XPFL30	55	120	6000	2500	30°	800	5 5/16"
PAR38 IR	14485	60PAR/CAP/IR/SP9	60	120	3000	20,000	9°	1110	5 5/16"
	14716	60PAR/CAP/IR/SP9	60	130	3000	20,000	9°	1110	5 5/16"
	14360	60PAR/CAP/IR/WSP12	60	120	3000	12,000	12°	1110	5 5/16"
	14442	60PAR/CAP/IR/NFL25	60	120	3000	5000	25°	1110	5 5/16"
	14466	60PAR/CAP/IR/FL30	60	120	3000	3600	30°	1110	5 5/16"
	14715	60PAR/CAP/IR/FL30	60	130	3000	3600	30°	1110	5 5/16"

### Ordering Guide

<b>50</b> Wattage: 50 or 60 watts	<b>PAR</b> Parabolic Reflector	<b>30</b> Diameter 30 = 30/8" 38 = 38/8"	<b>/</b>	<b>CAP</b> CAPSYLITE	<b>/</b>	<b>IR</b> Type Infrared	<b>/</b>	<b>FL</b> Beam Spread: FL = Flood NFL = Narrow Flood SP = Spot	<b>30</b> Degrees
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## CAPSYLITE® SPL® Halogen Reflector Lamps

- Long life: up to 4500 hours
- Totally new halogen lens/reflector System
- Superior beam control and sharper “cutoff”
- Improved optical system provides consistent uniform performance from lamp to lamp
- Lens stamped with beam pattern
- Available in PAR20, PAR30, PAR30LN and PAR38

### CAPSYLITE PRODUCT FEATURES

Our CAPSYLITE brand of lamps is the industry standard for Halogen accent and display lighting

- Crisp, white light
- Higher energy efficiency and longer life than incandescents
- Lead-free soldered bases eliminate hazardous waste disposal and transportation costs

### CAPSYLITE ECOLOGIC BENEFITS

- Lead-free soldered bases eliminate this metal from the environment
- Lower energy consumption results in reduced greenhouse gas and mercury emissions

The SYLVANIA CAPSYLITE SPL Lamp — The first of a family of superior CAPSYLITE PARs — achieves its extraordinary performance by combining a tungsten halogen capsule with a unique lens/reflector system.

Conventional lenses are designed to provide a high center beam candlepower rating with light levels that fall off rapidly from the center. In contrast, the CAPSYLITE SPL brand product line is designed to give a more even distribution of high level light across as broad an area as possible. The result is a uniform light level on the target that maximizes the impact of the halogen source.

### Ordering and Specification Information

Item Number	Ordering Abbreviation	Watts	Base	Avg. Rated Life (hrs.)	Volts	CBCP	Beam Angle	Lumens	MOL
14590	45PAR/CAP/SPL/SP9	45	Medium Skirt	2500	120	10,000	9°	560	5 5/16"
14593	45PAR/CAP/SPL/SP9	45	Medium Skirt	2500	130	10,000	9°	560	5 5/16"
14589	45PAR/CAP/SPL/WSP12	45	Medium Skirt	2500	120	6300	12°	560	5 5/16"
14592	45PAR/CAP/SPL/WSP12	45	Medium Skirt	2500	130	6300	12°	560	5 5/16"
14588	45PAR/CAP/SPL/FL30	45	Medium Skirt	2500	120	1500	30°	560	5 5/16"
14591	45PAR/CAP/SPL/FL30	45	Medium Skirt	2500	130	1500	30°	560	5 5/16"
14010	45PAR/CAP/WFL50	45	Medium Skirt	2500	130	700	50°	560	5 5/16"
14957	50PAR/CAP/SPL/SP9	50	Medium Skirt	2500	120	10,500	9°	650	5 5/16"
14114	50PAR/CAP/SPL/FL30	50	Medium Skirt	2500	120	2,150	9°	650	5 5/16"
14469	60PAR/CAP/SPL/SP9	60	Medium Skirt	3000	120	16,000	9°	850	5 5/16"
14449	60PAR/CAP/SPL/SP9	60	Medium Skirt	3000	130	16,000	9°	850	5 5/16"
14423	60PAR/CAP/SPL/WSP12	60	Medium Skirt	3000	120	10,500	12°	850	5 5/16"
14472	60PAR/CAP/SPL/NFL25	60	Medium Skirt	3000	120	3300	25°	850	5 5/16"
14184	60PAR/CAP/SPL/NFL25	60	Medium Skirt	3000	130	3300	25°	850	5 5/16"
14468	60PAR/CAP/SPL/FL30	60	Medium Skirt	3000	120	2500	30°	850	5 5/16"
14448	60PAR/CAP/SPL/FL30	60	Medium Skirt	3000	130	2500	30°	850	5 5/16"
14514	75PAR/CAP/SPL/SP9	75	Medium Skirt	2500	120	19,200	9°	1060	5 5/16"
14516	75PAR/CAP/SPL/SP9	75	Medium Skirt	2500	130	19,200	9°	1060	5 5/16"
14510	75PAR/CAP/SPL/WSP12	75	Medium Skirt	2500	120	12,300	12°	1060	5 5/16"
14513	75PAR/CAP/SPL/FL30	75	Medium Skirt	2500	120	3150	30°	1060	5 5/16"
14515	75PAR/CAP/SPL/FL30	75	Medium Skirt	2500	130	3150	30°	1060	5 5/16"
14517	75PAR/CAP/SPL/WFL50	75	Medium Skirt	2500	130	1300	50°	1060	5 5/16"
14586	90PAR/CAP/SPL/SP9	90	Medium Skirt	2500	120	20,000	9°	1310	5 5/16"
14587	90PAR/CAP/SPL/SP9	90	Medium Skirt	2500	130	20,000	9°	1310	5 5/16"
14580	90PAR/CAP/SPL/WSP12	90	Medium Skirt	2500	120	14,300	12°	1310	5 5/16"
14578	90PAR/CAP/SPL/WSP12	90	Medium Skirt	2500	130	14,300	12°	1310	5 5/16"
14601	90PAR/CAP/SPL/NFL25	90	Medium Skirt	2500	130	4700	25°	1310	5 5/16"
14579	90PAR/CAP/SPL/FL30	90	Medium Skirt	2500	120	3500	30°	1310	5 5/16"
14577	90PAR/CAP/SPL/FL30	90	Medium Skirt	2500	130	3500	30°	1310	5 5/16"



Item Number	Ordering Abbreviation	Watts	Base	Avg. Rated Life (hrs.)	Volts	CBCP	Beam Angle	Lumens	MOL
14602	90PAR/CAP/SPL/WFL50	90	Medium Skirt	2500	130	1600	50°	1310	5 5/16"
14856	120PAR/CAP/SPL/SP10	120	Medium Skirt	3000	120	22,500	10°	1800	5 5/16"
14874	120PAR/CAP/SPL/SP10	120	Medium Skirt	3000	130	22,500	10°	1800	5 5/16"
14848	120PAR/CAP/SPL/NFL25	120	Medium Skirt	3000	120	7700	25°	1800	5 5/16"
14855	120PAR/CAP/SPL/FL30	120	Medium Skirt	3000	120	4600	30°	1800	5 5/16"
14861	120PAR/CAP/SPL/FL30	120	Medium Skirt	3000	130	4600	30°	1800	5 5/16"
14594	120PAR/CAP/SPL/WFL55	120	Medium Skirt	3000	120	2000	55°	1800	5 5/16"
15526	250PAR/CAP/SPL/SP10	250	Medium Skirt	4500	120	46,500	10°	3600	5 5/16"
15558	250PAR/CAP/SPL/FL30	250	Medium Skirt	4500	120	9000	30°	3600	5 5/16"

	Item Number	Ordering Abbreviation	Watts	Bulb	Base	Volts	Avg. Rated Life (hrs.)	CBCP	Beam Angle	Lumens	MOL
CAPSYLITE® PAR20 Halogen Lamps	14467	35PAR20/CAP/SPL/NSP10	35	PAR-20	Medium	120	2500	3000	10°	360	3 1/4"
	14460	35PAR20/CAP/SPL/NSP10	35	PAR-20	Medium	130	2500	3000	10°	360	3 1/4"
	14464	35PAR20/CAP/SPL/NFL30	35	PAR-20	Medium	120	2500	800	30°	360	3 1/4"
	14459	35PAR20/CAP/SPL/NFL30	35	PAR-20	Medium	130	2500	800	30°	360	3 1/4"
	14506	35PAR20/CAP/SPL/WFL40	35	PAR-20	Medium	120	2500	500	40°	360	3 1/4"
	14461	35PAR20/CAP/SPL/WFL40	35	PAR-20	Medium	130	2500	500	40°	360	3 1/4"
	14500	50PAR20/HAL/SPL/NSP10	50	PAR-20	Medium	120	2500	4600	10°	550	3 1/4"
	14528	50PAR20/CAP/SPL/NSP10	50	PAR-20	Medium	130	2500	4600	10°	550	3 1/4"
	14502	50PAR20/HAL/SPL/NFL30	50	PAR-20	Medium	120	2500	1200	30°	550	3 1/4"
	14529	50PAR20/CAP/SPL/NFL30	50	PAR-20	Medium	130	2500	1200	30°	550	3 1/4"
	14700	50PAR20/CAP/SPL/WFL40	50	PAR-20	Medium	120	2500	900	40°	550	3 1/4"

	Item Number	Ordering Abbreviation	Watts	Bulb	Base	Volts	Avg. Rated Life (hrs.)	CBCP	Beam Angle	Lumens	MOL
CAPSYLITE® PAR30 Halogen Lamps	14526	50PAR30/CAP/SPL/NSP9	50	PAR-30	Medium	120	2500	8800	9°	660	3 5/8"
	14530	50PAR30/CAP/SPL/NSP9	50	PAR-30	Medium	130	2500	8800	9°	660	3 5/8"
	14527	50PAR30/CAP/SPL/NFL25	50	PAR-30	Medium	120	2500	2300	25°	660	3 5/8"
	14531	50PAR30/CAP/SPL/NFL25	50	PAR-30	Medium	130	2500	2300	25°	660	3 5/8"
	14710	50PAR30/HAL/SPL/FL40	50	PAR-30	Medium	120	2500	1300	40°	660	3 5/8"
	14533	50PAR30/CAP/SPL/FL40	50	PAR-30	Medium	130	2500	1300	40°	660	3 5/8"
	14332	60PAR30/CAP/SPL/NSP9	60	PAR-30	Medium	120	3000	12,000	9°	860	3 5/8"
	14333	60PAR30/CAP/SPL/NFL25	60	PAR-30	Medium	120	3000	3500	25°	860	3 5/8"
	14604	75PAR30/CAP/SPL/NSP9	75	PAR-30	Medium	120	2500	15,400	9°	1130	3 5/8"
	14628	75PAR30/CAP/SPL/NSP9	75	PAR-30	Medium	130	2500	15,400	9°	1130	3 5/8"
	14603	75PAR30/CAP/SPL/NFL25	75	PAR-30	Medium	120	2500	4000	25°	1130	3 5/8"
	14627	75PAR30/CAP/SPL/NFL25	75	PAR-30	Medium	130	2500	4000	25°	1130	3 5/8"
	14606	75PAR30/CAP/SPL/FL40	75	PAR-30	Medium	120	2500	2100	40°	1130	3 5/8"
	14629	75PAR30/CAP/SPL/FL40	75	PAR-30	Medium	130	2500	2100	40°	1130	3 5/8"

	Item Number	Ordering Abbreviation	Watts	Bulb	Base	Volts	Avg. Rated Life (hrs.)	CBCP	Beam Angle	Lumens	MOL
CAPSYLITE® PAR30 Long Neck Halogen Lamps	14759	35PAR30LN/CAP/SPL/NSP9	35	PAR-30	Medium	120	2500	5700	9°	450	4 11/16"
	14764	35PAR30LN/CAP/SPL/WFL50	35	PAR-30	Medium	120	2500	450	50°	450	4 11/16"
	14509	50PAR30LN/CAP/SPL/NSP9	50	PAR-30	Medium	120	2500	8800	9°	660	4 11/16"
	14482	50PAR30LN/CAP/SPL/NSP9	50	PAR-30	Medium	130	2500	8800	9°	660	4 11/16"
	14520	50PAR30LN/CAP/SPL/NFL25	50	PAR-30	Medium	120	2500	2300	25°	660	4 11/16"
	14478	50PAR30LN/CAP/SPL/NFL25	50	PAR-30	Medium	130	2500	2300	25°	660	4 11/16"
	14537	50PAR30LN/CAP/SPL/WFL50	50	PAR-30	Medium	120	2500	900	50°	660	4 11/16"
	14486	50PAR30LN/CAP/SPL/WFL50	50	PAR-30	Medium	130	2500	900	50°	660	4 11/16"
	14786	75PAR30LN/CAP/SPL/NSP9	75	PAR-30	Medium	120	2500	15,400	9°	1130	4 11/16"
	14777	75PAR30LN/CAP/SPL/NSP9	75	PAR-30	Medium	130	2500	15,400	9°	1130	4 11/16"
	14769	75PAR30LN/CAP/SPL/NFL25	75	PAR-30	Medium	120	2500	4000	25°	1130	4 11/16"
	14778	75PAR30LN/CAP/SPL/NFL25	75	PAR-30	Medium	130	2500	4000	25°	1130	4 11/16"
	14768	75PAR30LN/CAP/SPL/WFL50	75	PAR-30	Medium	120	2500	1100	50°	1130	4 11/16"
	14785	75PAR30LN/CAP/SPL/WFL50	75	PAR-30	Medium	130	2500	1100	50°	1130	4 11/16"

## Ordering Guide

60	PAR	20	/	CAP	/	SPL	/	NFL	25
Wattage	Parabolic Reflector	Bulb Diameter		CAPSYLITE				Beam Spread	Beam Angle

## Sample Specification

Lamp shall be CAPSYLITE SPL halogen (PAR20, PAR30 or PAR38) lamp with a (2500, 3000 or 4500) – hour average rated life, shall be diode free and employ stabilized coils. Lamp shall be energy efficient and produced to EPACT standards. Lamp base shall contain no lead solder to make the disposal of used CAPSYLITE SPL lamp easier for the end user.





# CAPSYLITE®

## Halogen PAR Lamps

### SYLVANIA CAPSYLITE DESIGNER 16® Lamp Family

PAR16 lamps are an excellent alternative to low voltage halogen systems, with similar reflector options but no need for expensive transformers. The molded ceramic body is attractive in open fixtures.

### SYLVANIA CAPSYLITE PAR14 Lamp Family

Currently the world's smallest halogen PAR lamp offers a high performance replacement for R14 incandescent lamps with all the advantages of halogen light. It also features an attractive molded ceramic body like CAPSYLITE DESIGNER 16.

## Ordering and Specification Information

	Item Number	Ordering Abbreviation	Watts	Bulb	Base	Volts	Avg. Rated Life (hrs)	CBCP	Beam Angle	Lumens	MOL
CAPSYLITE® Designer 16 Halogen Lamps	59032	60PAR16/CAP/NSP10	60	PAR-16	Medium	120	2000	5000	10°	650	2 7/8"
	59040	60PAR16/CAP/NSP10	60	PAR-16	Medium	130	2000	5000	10°	650	2 7/8"
	59030	60PAR16/CAP/NFL30	60	PAR-16	Medium	120	2000	1300	30°	650	2 7/8"
	59038	60PAR16/CAP/NFL30	60	PAR-16	Medium	130	2000	1300	30°	650	2 7/8"
	59036	75PAR16/CAP/NSP10	75	PAR-16	Medium	120	2000	7500	10°	900	2 7/8"
	59044	75PAR16/CAP/NSP10	75	PAR-16	Medium	130	2000	7500	10°	900	2 7/8"
	59034	75PAR16/CAP/NFL30	75	PAR-16	Medium	120	2000	1900	30°	900	2 7/8"
	59042	75PAR16/CAP/NFL30	75	PAR-16	Medium	130	2000	1900	30°	900	2 7/8"

	Item Number	Ordering Abbreviation	Watts	Bulb	Base	Volts	Avg. Rated Life (hrs)	CBCP	Beam Angle	Lumens	MOL
CAPSYLITE® PAR14 Halogen Lamps	14553	35PAR14/CAP/FL50	35	PAR-14	Medium	120	2000	85	50°	300	2 7/16"

## Ordering Guide

60	PAR	16	/	CAP	/	NSP	10
Wattage:	Parabolic	Diameter		CAPSYLITE		Beam	Beam Angle
35, 60 & 75	Reflector	14 = 14/8"				Spread:	10°
watts		16 = 16/8"				NSP=Narrow Spot	30°
						NFL=Narrow Flood	50°
						FL=Flood	
						WFL=Wide Flood	



# TRU-AIM® IR MR16

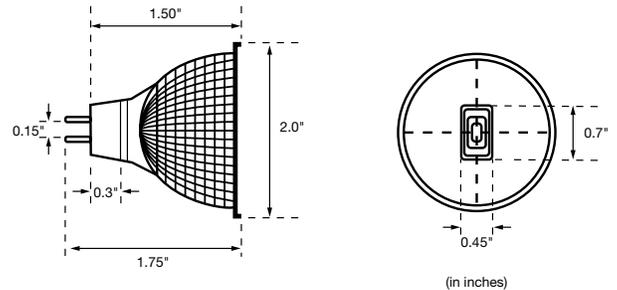
## Energy Saving Low Voltage Reflector Lamps

- All the technological advances of standard MR16's with significant reduction in energy consumption
- Bright, crisp light throughout lamp life
- UV-control capsule combined with IR coating eliminates UV-B and UV-C radiation
- A high efficacy directional lamp which combines IR technology with a hard coated dichroic reflector for consistent color throughout life
- 4000-hour average rated lamp life
- Axial filament for exceptionally smooth beam pattern.
- GU 5.3 base for a solid socket connection

The SYLVANIA TRU-AIM IR MR16 Low Voltage Reflector Lamp is the only low-volt infrared coated reflector lamp in the industry.

The high luminous efficacy of the TRU-AIM IR lamp is achieved via thermal recovery. The ellipsoidal tungsten halogen capsule and its special infrared reflective coating ensure that the radiated heat, which otherwise would be wasted, is reflected back to the lamp filament. Because the heat stays within the lamp capsule, less energy is required to bring the filament up to its optimal operating temperature.

### Dimensions



### Ordering and Specification Information

Item Number	Ordering Abbreviation	Watts	Volts	Base	Avg. Rated Life (hrs.)	CBCP (cd)	Beam Angle
58531	20MR16/IR/SP10/C <sup>1</sup>	20	12	GU 5.3	4000	6000	10°
58532	20MR16/IR/NFL25/C <sup>1</sup>	20	12	GU 5.3	4000	2300	25°
58533	20MR16/IR/FL40/C <sup>1</sup>	20	12	GU 5.3	4000	1000	40°
58838	20MR16/IR/WFL60/C <sup>1</sup>	20	12	GU 5.3	4000	450	60°
58641	37MR16/IR/NSP10	37	12	GU 5.3	4000	11,500	10°
58634	37MR16/IR/NFL25	37	12	GU 5.3	4000	3500	25°
58633	37MR16/IR/FL40/C <sup>1</sup>	37	12	GU 5.3	4000	2050	40°
58837	37MR16/IR/WFL60/C <sup>1</sup>	37	12	GU 5.3	4000	1100	60°
54175	50MR16/IR/NSP10/C <sup>1</sup>	50	12	GU 5.3	4000	15,000	10°
54174	50MR16/IR/NFL25/C <sup>1</sup>	50	12	GU 5.3	4000	5100	25°
54173	50MR16/IR/FL40/C <sup>1</sup>	50	12	GU 5.3	4000	2500	40°
54237	50MR16/IR/WFL60C <sup>1</sup>	60	12	GU 5.3	4000	1430	60°

<sup>1</sup> Cover glass

### Ordering Guide

37	MR	16	/	IR	/	FL	40
Wattage: 20, 37, 50 & 60 watts	Metalized Reflector	Diameter: 16/8"		Type: IR = Infrared coating on capsule		Beam Spread: NSP = Narrow Spot NFL = Narrow Flood FL = Flood	Beam Angle: 10°, 25°, 40°, 60°

### Sample Specification

Lamp(s) shall be 12V TRU-AIM IR halogen lamp(s) with a UV-control capsule, an axial filament, a constant color hard dichroic reflector coating, and an infrared reflective coating on the lamp capsule. Lamp(s) shall be 37 or 50 watts with a \_\_\_ beam spread (NSP, NFL or FL).





# TRU-AIM® MR11 & MR16

## Low Voltage Reflector Lamps

- Bright, crisp light throughout lamp life
- UV-control capsule reduces UV-radiation up to 90%
- 4000-hour average rated lamp life
- Exceptional reflector and filament design provides superior smooth beam pattern
- GU4 and GU 5.3 base for a solid socket connection

### Ordering and Specification Information

	Item Number	Ordering Abbreviation	Watts	Volts	Base	Av. Rated Life (hrs.)	CBCP (cd)	Beam Angle	
<b>TRU-AIM MR11</b>	55109	20MR11/SP10	20	12	GU4	3000	5500	10	
	55107	20MR11/FL35	20	12	GU4	3000	700	35	
	55113	35MR11/SP10	35	12	GU4	3000	8500	10	
	55111	35MR11/FL40	35	12	GU4	3000	1500	40	
	<b>Covered</b>	55119	20MR11/FL35/C	20	12	GU4	3000	700	35
	55122	35MR11/SP10/C	35	12	GU4	3000	8500	10	
<b>TRU-AIM STANDARD</b>	54201	20MR16/NSP8	20	12	GU5.3	4000	6000	8	
	54200	20MR16/FL40	20	12	GU5.3	4000	700	40	
	54204	35MR16/NSP8	35	12	GU5.3	4000	11,000	8	
	54202	35MR16/SP20	35	12	GU5.3	4000	2800	20	
	54203	35MR16/FL40	35	12	GU5.3	4000	1400	40	
	54208	50MR16/NSP12	50	12	GU5.3	4000	11,000	12	
	54205	50MR16/NFL25	50	12	GU5.3	4000	3200	25	
	54207	50MR16/FL40	50	12	GU5.3	4000	2000	40	
	54206	50MR16/VWFL60	50	12	GU5.3	4000	1200	60	
	58563	65MR16/NSP10	65	12	GU5.3	4000	14,000	10	
	58565	65MR16/NFL25	65	12	GU5.3	4000	4000	25	
	58564	65MR16/FL40	65	12	GU5.3	4000	2100	40	
	<b>TRU-AIM BRILLIANT</b>	58589	20MR16/B/NSP8	20	12	GU5.3	4000	4650	8
58590		20MR16/B/FL35	20	12	GU5.3	4000	625	35	
58591		35MR16/B/NSP10	35	12	GU5.3	4000	8700	10	
58593		35MR16/B/FL35	35	12	GU5.3	4000	1300	35	
58594		50MR16/B/NSP11	50	12	GU5.3	4000	10,500	11	
58595		50MR16/B/NFL25	50	12	GU5.3	4000	3000	25	
58596		50MR16/B/FL35	50	12	GU5.3	4000	1900	35	
58559		65MR16/B/NSP10	65	12	GU5.3	4000	12,500	10	
58561		65MR16/B/NFL25	65	12	GU5.3	4000	3600	25	
58560		65MR16/B/FL35	65	12	GU5.3	4000	2100	35	
<b>Covered</b>		58569	20MR16/B/NSP8/C	20	12	GU5.3	4000	4400	8
		58570	20MR16/B/FL35/C	20	12	GU5.3	4000	600	35
		58539	35MR16/B/NSP8/C	35	12	GU5.3	4000	8700	8
	58574	50MR16/B/NSP11/C	50	12	GU5.3	4000	10,000	11	
	58575	50MR16/B/FL35/C	50	12	GU5.3	4000	1800	35	
<b>TRU-AIM TITAN</b>	58550	20MR16/T/NSP10	20	12	GU5.3	4000	5000	10	
	58551	20MR16/T/FL40	20	12	GU5.3	4000	700	40	
	58562	20MR16/T/VWFL60	20	12	GU5.3	4000	350	60	
	58558	35MR16/T/NSP10	35	12	GU5.3	4000	8300	10	
	58547	35MR16/T/NFL25	35	12	GU5.3	4000	3200	25	
	58557	35MR16/T/FL40	35	12	GU5.3	4000	1250	40	
	58552	35MR16/T/VWFL60	35	12	GU5.3	4000	650	60	
	58556	50MR16/T/NSP10	50	12	GU5.3	4000	11,500	10	
	58555	50MR16/T/NFL25	50	12	GU5.3	4000	3200	25	
	58554	50MR16/T/FL40	50	12	GU5.3	4000	2000	40	
	58553	50MR16/T/VWFL60	50	12	GU5.3	4000	1000	60	
	58566	65 MR16/T/NSP10	65	12	GU5.3	4000	14,000	10	
	58567	65MR16/T/NFL25	65	12	GU5.3	4000	4000	25	
	58571	65MR16/T/FL40	65	12	GU5.3	4000	2100	40	
		58572	65MR16/T/VWFL60	65	12	GU5.3	4000	1050	60
	<b>Covered</b>	58549	35MR16/T/NFL25/C	35	12	GU5.3	4000	1650	25

#### TRU-AIM MR11 and MR16 Standard

- Economical dichroic reflector
- Transmits heat through back of lamp

#### TRU-AIM MR16 BRILLIANT®

- Aluminized reflector – consistent color over life

- Reflects heat through front of lamp

#### TRU-AIM MR16 TITAN®

- Constant Color hard dichroic reflector – consistent color over life

- Transmits heat through back of lamp

#### Sample Specification

##### TRU-AIM:

Lamp(s) shall be (a) 12V TRU-AIM \_\_\_\_ (Standard, Brilliant, Titan) halogen lamp(s) with a UV-control capsule, an axial filament, a \_\_\_\_ (hard coat dichroic, semi-hard coat dichroic or aluminized) reflector coating. Lamp(s) shall be \_\_\_\_ (20, 35, 50 or 65) watts with a \_\_\_\_ (NSP, SP, NFL, FL or VWFL) beam spread.

### Ordering Guide

50	MR	16	/	T	/	SP	10	/	C
Wattage	Metalized Reflector	Diameter: 11 = 11/8" 16 = 16/8"		Type: B = Aluminized Reflector T = Hard Dichroic Reflector __ = Semi Dichroic Reflector		Beam Spread: SP = Spot NSP = Narrow Spot NFL = Narrow Flood VWFL = Very Wide Flood	Degree: 8° 10° 11° 20° 24° 25° 35° 38° 40° and 60°		Covered



# CAPSYLITE® G9

## Line Voltage Halogen Lamps

- 2000 hour average rated life
- UV Stop quartz glass
- Bright white, high quality halogen light
- 120 Volt operation
- Can be operated in open fixtures<sup>1</sup>
- Available with either clear or frosted finish

<sup>1</sup> SYLVANIA does not require lamp containment shielding. Consult most recent UL standards for luminaire requirements.

SYLVANIA CAPSYLITE G9 lamps are the first line voltage halogen capsules that are suitable for use in unshielded fixtures.<sup>1</sup>

The innovative SYLVANIA CAPSYLITE G9 lamp structure allows a line voltage coil to be supported in a space similar to that of a low voltage bi-pin lamp. In addition, the structure also eliminates the metal wires that would usually be needed to support such a coil. This eliminates arcing sources and creates a self-fusing lamp. These traits allow for reduced fixture costs by eliminating expensive transformers and heavy glass shields.

In addition, their long life and energy efficiency make CAPSYLITE G9 lamps ideal for use in residential, commercial and industrial buildings.

### Ordering Guide

40	CAPSYLITE	/	G9	/	CL	/	BL
Wattage:	SYLVANIA		Base Type		Finish		Packaging
40W	CAPSYLITE		G9		CL = Clear Finish		___ = Carton
	Capsule				F = Frosted		BL = Blister Card

### Sample Specification

Lamp shall be CAPSYLITE G9 halogen lamp with a 2000 hour average rated life. Lamp shall be energy efficient and pass TCLP to make the disposal of the used lamp easier for the end user.

### Ordering and Specification Information

Item Number	Order Abbreviation	Finish	Watts	Avg. Rated Life (hrs.)	Volts	Lumens <sup>2</sup>	LCL	MOL	Figure
57000	25CAPSYLITE/G9/CL	Clear	25	2000	120	255	1 1/16	2 1/5	2
57016	25CAPSYLITE/G9/CL/BL	Clear	25	2000	120	255	1	1 7/8	1
57001	25CAPSYLITE/G9/F	Frosted	25	2000	120	230	1 1/16	2 1/5	2
57015	25CAPSYLITE/G9/F/BL	Frosted	25	2000	120	230	1	1 7/8	1
57002	40CAPSYLITE/G9/CL	Clear	40	2000	120	510	1 1/16	2 1/5	2
57018	40CAPSYLITE/G9/CL/BL	Clear	40	2000	120	510	1	1 7/8	1
57003	40CAPSYLITE/G9/F	Frosted	40	2000	120	480	1 1/16	2 1/5	2
57017	40CAPSYLITE/G9/F/BL	Frosted	40	2000	120	480	1	1 7/8	1
57004	60CAPSYLITE/G9/CL	Clear	60	2000	120	830	1 1/16	2 1/5	2
57014	60CAPSYLITE/G9/CL/BL	Clear	60	2000	120	830	1 1/16	2 1/5	2
57005	60CAPSYLITE/G9/F	Frosted	60	2000	120	790	1 1/16	2 1/5	2
57019	60CAPSYLITE/G9/F/BL	Frosted	60	2000	120	790	1 1/16	2 1/5	2

<sup>2</sup> Initial performance ratings

### Dimensions

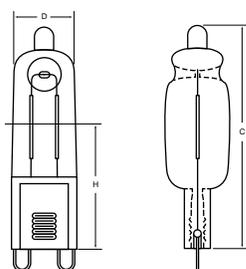


Figure 1

Figure	Diameter (D)	Light Center Length (H)	Maximum Overall Length (C)
1	9/16" (14mm)	1" (25mm)	1 7/8" (47mm)
2	9/16" (14mm)	1 1/16" (27mm)	2 2/5" (56mm)

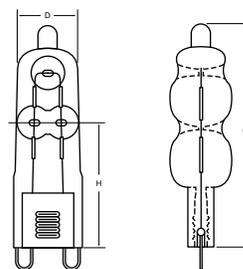


Figure 2



# IR STARLITE AND STANDARD BI-PIN Low Voltage Halogen Lamps

A complete family of BI-PIN halogen lamps to meet the various needs of designers and end users:

## IR

- Axial filament
- 4000-hour average rated lamp life
- UV stop quartz capsule
- Low pressure
- Energy saving IR technology
- No UV-B or UV-C Light output
- Suitable for use without shielding<sup>1</sup>

## STARLITE

- Axial filament
- 4000-hour average rated lamp life
- UV-control quartz capsule
- Low pressure
- Suitable for use without shielding<sup>1</sup>

## STANDARD

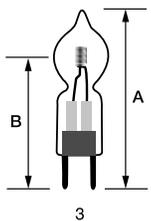
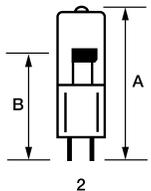
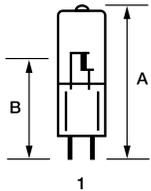
- Clear and frosted
- 2000-hour average rated lamp life
- UV-control quartz capsule
- Low pressure
- 6V and 12V suitable for use without shielding<sup>1</sup>

<sup>1</sup> SYLVANIA does not require lamp containment shielding. Consult most recent UL standards for luminaire requirements.

The SYLVANIA family of BI-PIN lamps represents an outstanding collection of compact, low voltage halogen light sources ideal for a wide range of applications.

## Dimensions

	(A) MOL	(B) LCL
Standard (2) 5W-20W	31mm	22mm
Standard (2) 50W-75W	44mm	30mm
Standard (1) 50W/100W (24V)	44mm	30mm
Starlite (2) 5W	31mm	22mm
Starlite (1) 10W-20W	31mm	22mm
Starlite (1) 35W-90W	44mm	30mm
IR (3) 37W & 50W	44mm	30mm



## Ordering and Specification Information

	Item Number	Ordering Abbreviation	Watts	Volts	Base	Avg. Rated Life	Lumens (lm)	Figure
BI-PIN IR	58683	37BT4Q/IR	37	12	GY6.35	4000	900	3
	58687	50BT4Q/IR	50	12	GY6.35	4000	1320	3
STARLITE	58690	5T3Q/CL	5	12	G4	4000	60	2
	58691	10T3Q/CL/AX	10	12	G4	4000	130	1
	58692	10T3Q/CL/AX/6V	10	6	G4	4000	130	1
	58694	20T3Q/CL/AX <sup>1</sup>	20	12	G4	4000	320	1
	58663	20T4Q/CL/AX	20	12	GY6.35	4000	320	1
	58672	35T4Q/CL/AX	35	12	GY6.35	4000	600	1
STANDARD	58676	50T4Q/CL/AX <sup>1</sup>	50	12	GY6.35	4000	930	1
	58680	75T4Q/CL/AX <sup>1</sup>	75	12	GY6.35	4000	1450	1
	58684	90T4Q/CL/AX	90	12	GY6.35	4000	1800	1
	58652	5T3Q/CL <sup>1</sup>	5	12	G4	2000	60	2
	58658	10T3Q/CL <sup>1</sup>	10	12	G4	2000	140	2
	58661	20T3Q/CL <sup>1</sup>	20	12	G4	2000	320	2
	58675	50T4Q/CL <sup>1</sup>	50	12	GY6.35	2000	930	2
	58662	20T3Q/CL/24V	20	24	G4	1000	350	2
	58678	50T4Q/CL/AX/24V	50	24	GY6.35	2000	850	1
	FROSTED	58651	5T3Q/F	5	12	G4	2000	55
	58656	10T3Q/F	10	12	G4	2000	130	2
	58695	20T3Q/F	20	12	G4	2000	300	2
	58698	50T4Q/F	50	12	GY6.35	2000	830	2

<sup>1</sup> Also available in bulk pack

## Ordering Guide

50 Wattage	T4 Tubular Lamp T3 = Diameter (3/8") T4 = Diameter (4/8") BT4 = Bulbous tube (4/8")	Q Quartz Glass	/	CL Finish CL = Clear F = Frosted IR = IR Conserving	/	AX AX = Axial Filament __ = Transverse	/	24V Voltage __ = 12V 24V 6V
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# CAPSYLITE® A-LINE Halogen Lamps

- Replacement for standard A-Line Incandescent
- Superior Lamp Life: up to 3500 hours – three times that of conventional incandescent bulbs
- Heavy wall glass allows use in open fixtures
- High color temperature at 2950K
- Available in a variety of wattages
- Excellent light output

SYLVANIA CAPSYLITE A-Line lamps have a long life of up to 3500 hours life, three times that of conventional incandescent bulbs.

SYLVANIA Halogen A-Line and Halogen Crystal lamps combine decorative appearance with the brilliant white light of halogen to give your customers excellent output for lighting almost any setting. Halogen CRYSTAL with its unique faceted design adds sparkle to any fixture, indoors or out.

Halogen A-Line and Halogen Crystal can be used anywhere conventional incandescent lights are used to add a new dimension to home or business lighting.

### Sample Specification

Lamp shall be A19 halogen lamp with a \_\_\_\_ (3000 or 3500) –hour average rated life. Lamp(s) shall be diode free and employ stabilized coils. Lamp shall be energy efficient and produced to EPACT standards. Lamp base shall contain no lead solder to make the disposal of used CAPSYLITE A-Line lamp(s) easier for the end user.

## Ordering and Specification Information

Item Number	Ordering Abbreviation	Watts	Base	Average Rated Life (hrs.)	Volts	Lumens	LCL	MOL
18907	42A/CAP	42	Medium	3500	120	570	3 1/8	4 3/8
18908	42A/CAP	42	Medium	3500	130	570	3 1/8	4 3/8
18921	52A/CAP	52	Medium	3500	120	770	3 1/8	4 3/8
18922	52A/CAP	52	Medium	3500	130	770	3 1/8	4 3/8
18960	60A/HAL	60	Medium	3000	120	960	3 1/8	4 3/8
18998	60A/HAL/DAY/CL/CLAM	60	Medium	3000	120	960	3 1/8	4 3/8
18999	60A/HAL/DAY/CLAM	60	Medium	3000	120	960	3 1/8	4 3/8
18942	60A/HAL/DAY/CRYSTAL/CLAM	60	Medium	3000	120	960	3 1/8	4 3/8
18937	72A/CAP	72	Medium	3500	120	1150	3 1/8	4 3/8
18938	72A/CAP	72	Medium	3500	130	1150	3 1/8	4 3/8
18965	75A/HAL	75	Medium	3000	120	1300	3 1/8	4 3/8
19000	75A/HAL/DAY/CL/CLAM	75	Medium	3000	120	1330	3 1/8	4 3/8
18997	75A/HAL/DAY/CLAM	75	Medium	3000	120	1300	3 1/8	4 3/8
18906	75A/HAL/DAY/CRYSTAL/CLAM	75	Medium	3000	120	1330	3 1/8	4 3/8
18970	100A/HAL/RP	100	Medium	3000	120	1800	3 1/8	4 3/8
19003	100A/HAL/DAY/CL/CLAM	100	Medium	3000	120	1300	3 1/8	4 3/8
18905	100A/HAL/DAY/CLAM	100	Medium	3000	120	1800	3 1/8	4 3/8

## Lamp Comparison

Item Number	Lamp Type	Color Temperature (K)	Lumen (lm)	Life (hours)
18960	SYLVANIA 60A/HAL	2950	960	3000
	Brand X BC60BT15/HAL/W	N/A	840	3000
18970	SYLVANIA 100A/HAL	2950	1850	2250
	Brand X BC15BT15/HAL/W	N/A	1670	3000



## INCANDESCENT SYLVANIA ECO® PRODUCTS

As part of our ECOLOGIC program, OSRAM SYLVANIA has pioneered the development of lead-free solders used in the ECO versions of many of our most popular incandescent lamps. Representing over 125 distinct types, and over 90% of our incandescent shipping volume, this segment of our ECO lineup clearly positions SYLVANIA as the leader in lead reduction technology.

### Key incandescent SYLVANIA ECO products include:

Standard (A19) types from 34W to 135W in clear, frosted, and colored finishes; Globe-shaped (G16-1/2 and G25) types in clear, frosted, and colored finishes; Bent-tip (B10) décor types in clear, frosted and faceted finishes.

### Application Photos on page 35.

(Clockwise from top left)

SYLVANIA LUMALUX PLUS® ECO® lamps illuminate the streets of Windsor, Ontario.

Gold's Gym uses SYLVANIA OCTRON SUPERSAVER ECO lamps.

The Orlando Utilities Commission features SYLVANIA OCTRON® 841 XP™ ECO® lamps and SYLVANIA QUICKTRONIC® PLUS ballasts.

Braintree, Massachusetts lights its streets with SYLVANIA LUMALUX PLUS ECO lamps.

JCPenney stores feature SYLVANIA OCTRON SUPERSAVER® ECO lamps.

The SYLVANIA OCTRON 841 XP ECO system operates on QUICKTRONIC PLUS ballasts at South Florida Baptist Hospital.

# ECOLOGIC® PRODUCT APPLICATIONS



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