

CAPSYLITE® IR™ PAR30



- 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

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



SYLVANIA PAR30 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.

Product Availability

Product	Wattage	Beam Angle
PAR30 CAPSYLITE IR	50	SP 9°, NFL 25°, FL 40°

Application Information

Applications

Highlight merchandise
Accent / display lighting
Floor lighting
General lighting
Indoor / outdoor
Retail
Art galleries
Hotels, restaurants
Offices
Homes

Application Notes

1. Lens stamped with beam pattern
2. Better cutoff – maximum lumens in the beam
3. Eliminates stray light at the edges of the beam pattern
4. Superior candlepower rating
5. New distinctive appearance and superior performance separate the CAPSYLITE IR lamp from all others in the marketplace

SYLVANIA

Sample Specification

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

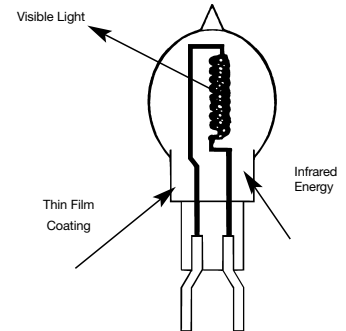
Lamp Comparison

Item No.	Lamp Type	Beam Angle	Color Temperature (K)	CBCP (cd)	Lumen (lm)	Life (hours)
14355	SYLVANIA 50PAR/CAP/IR/SP9 Brand X 50PAR/HIR/SP9	9	2850 2810	13,000 13,000	900 770	3000 3000
14354	SYLVANIA 50PAR/CAP/IR/NFL25 Brand X 50PAR30/HIR/NFL25	25	2850 2810	2900 2700	900 770	3000 3000
14714	SYLVANIA 50PAR/CAP/IR/FL40 Brand X 50PAR30/HIR/FL40	40	2850 2810	1400 1500	900 770	3000 3000

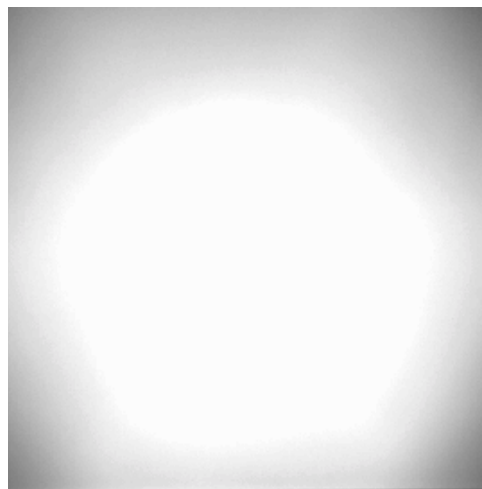
IR Coated Capsule

While producing visible light, all incandescent and halogen filaments also produce a significant amount of infrared heat. Unfortunately, the infrared energy produced by the filament is wasted. The wasted energy also increases the load on HVAC systems. The CAPSYLITE IR lamp has a multi-layered thin film coating on the outer surface of an ellipsoidal shaped halogen capsule. This coating allows visible light to pass through it while

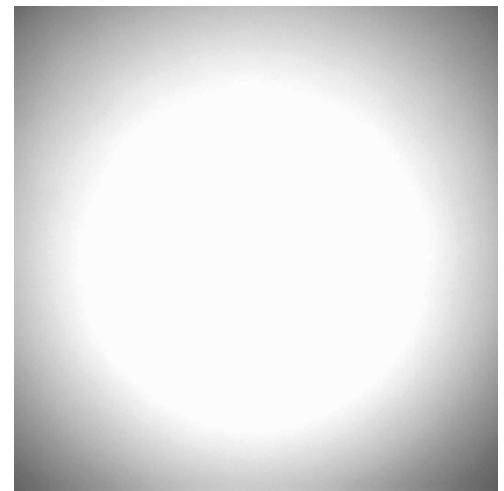
reflecting infrared heat back to filament. The reflected heat helps to maintain the coil at its optimum operating temperature and lowers the power consumption of the filament. The result is more visible light generated for each watt that is consumed. CAPSYLITE IR lamps can be used to replace higher wattage PAR lamps to achieve almost the same lighting effect with lower energy costs and less heat generation.



Optical Performance



Standard Halogen PAR



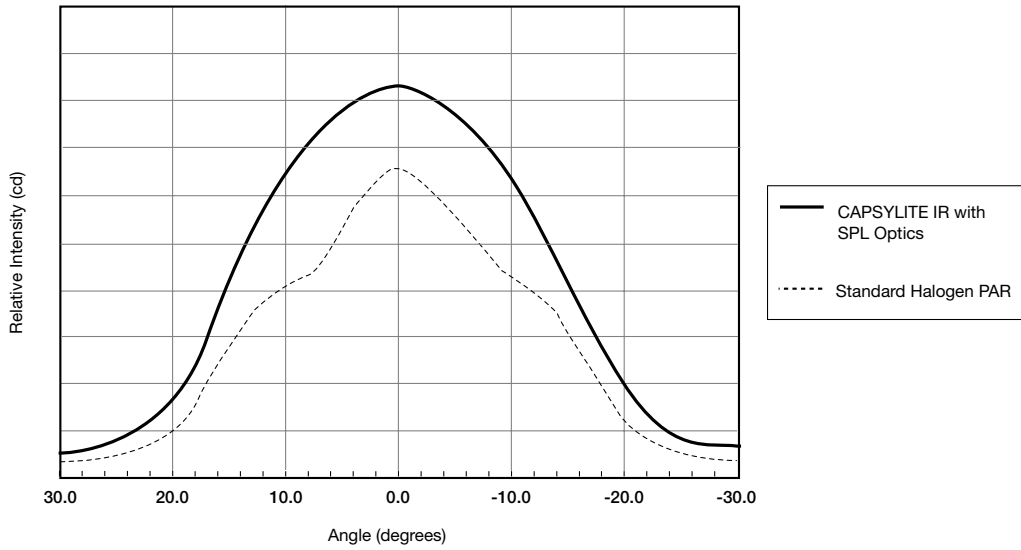
New CAPSYLITE IR

CAPSYLITE SPL Optical System

PAR30 IR CAPSYLITE lamps employ a patented spiral lenticule layout on their lenses. These patterns were computer designed to deliver a smooth, round beam pattern that is free from hot spots and stray light. The new lenses, however, are only half of the story. The new spiral flat reflectors were also computer designed to work in concert with the lenses. The spiral flats on the inner surface of the reflector begin to shape and contour the light rays before they reach the lens. The reflector and the lens, therefore, share the job of controlling the light so that the resultant beam pattern is as smooth as possible. The optical system maximizes the lumens in the beam angle, while providing consistent lamp-to-lamp performance.

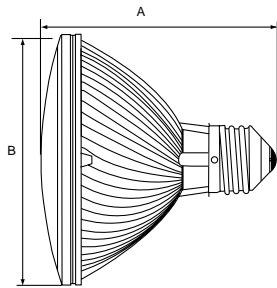
Beam Performance

Comparison of Standard Halogen PAR to New CAPSYLITE IR with SPL Optics



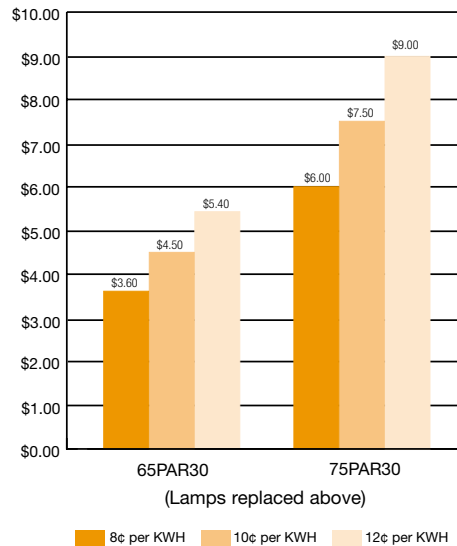
The beam performance of the CAPSYLITE IR product line with SPL optics will change the way PAR lamps are specified. Traditionally, PAR lamps were designed to provide peak intensity in the center of the beam and the light level dropped rapidly from that point. In contrast, the CAPSYLITE IR product line is designed to give a more even distribution of high level light across as broad an area as possible with no hot spots. The result is a uniform light level on the target that maximizes the impact of the halogen source.

Dimensions





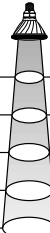
CAPSYLITE PAR30 IR	
(A) MOL	3 5/8 "
(B) Diam	3 3/4 "

Energy Cost Savings for 50 PAR30 IR*



*Based on 3000 hour lamp life

Footcandle

9° PAR30 IR SP				25° PAR30 IR NFL				40° PAR30 IR FL			
Distance from Source (in ft.)	Diameter (in ft.)		50W	Distance from Source (in ft.)	Diameter (in ft.)		50W	Distance from Source (in ft.)	Diameter (in ft.)		50W
3'	0.8		1444	3'	1.6		322	3'	2.5		156
6'	1.3		361	6'	3.0		81	6'	4.7		39
9'	1.7		160	9'	4.3		36	9'	6.9		17
12'	2.2		90	12'	5.6		20	12'	9.0		10
15'	2.7		58	15'	7.0		13	15'	11.2		6

SYLVANIA CAPSYLITE IR lamps are available in a full range of beam angles to meet the demands of virtually any display or accent lighting application. For each available CAPSYLITE IR lamp, this table shows how lamp output in footcandles varies as a function of distance.

Ordering and Specification Information

Item Number	Ordering Abbreviation	Watts	Volts	Avg. Rated Life (hrs)	CBCP	Beam Angle	Lumens	MOL
14355	50PAR30/CAP/IR/SP9	50	120	3000	13,000	9	900	3%"
14354	50PAR30/CAP/IR/NFL25	50	120	3000	2900	25	900	3%"
14714	50PAR30/CAP/IR/FL40	50	120	3000	1400	40	900	3%"

Ordering Guide

50	PAR	30	/	CAP	/	IR	/	FL	30
Wattage:	Parabolic	Diameter		CAPSYLITE		Type		Beam	Degrees
50	Reflector	30 = 30/8"				Infrared		Spread:	
								FL=Flood	
								NFL=Narrow Flood	
								SP=Spot	

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