

CAPSYLITE® IR 50W & 60W PAR38

Halogen 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 hard glass 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's NEW PAR38 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 film and SYLVANIA's unique 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 radiated heat, which would be otherwise wasted, back into the lamp capsule. Recycling this invisible infrared energy lowers the power consumption of the capsule and produces more visible light per watt.

Product Availability

Product	Wattage	Voltage	Beam Angle
PAR38 CAPSYLITE IR	50	120	SP 9°, NFL 25°
	50	130	SP 9°, NFL 25°
	60	120	SP 9°, WSP 12°, NFL 25°, FL 30°
	60	130	SP 9°, FL 30°

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 due to SPL optics which combines new spiral reflector and lens



Sample Specification

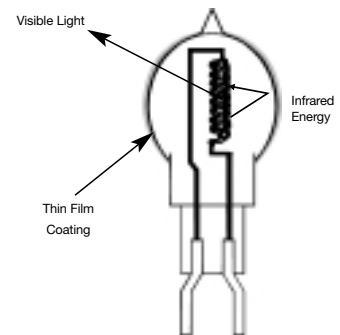
Lamp(s) shall be (a) CAPSYLITE IR halogen PAR38 lamp(s) with a 3000 – hour average rated life, shall be diode free and employ stabilized coils. Lamp(s) shall be energy efficient and produced to EPACT standards. Lamp base shall contain no lead solder to make the disposal of used CAPSYLITE IR lamp(s) easier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

Lamp Comparison

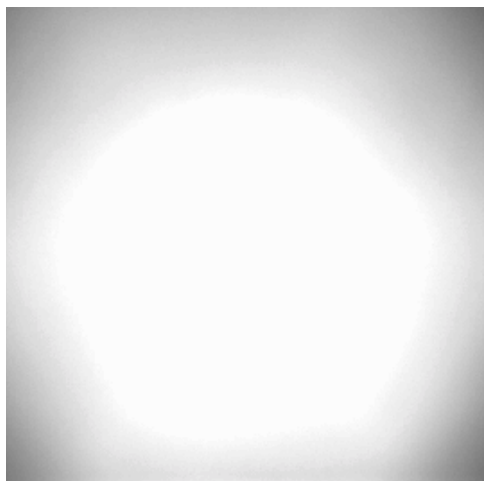
Item No.	Lamp Type	Beam Angle	Color Temperature (K)	CBCP (cd)	Lumen (lm)	Life (hours)
14485	SYLVANIA 60PAR/CAP/IR/SP/10 Brand X 60PAR/HIR/SP10	9 10	2875 2875	20,000 20,000	1110 1110	3000 3000
14360	SYLVANIA 60PAR/CAP/IR/WSP/12 Brand X 60PAR/HIR/SP12	12 12	2875 2875	12,000 12,000	1110 1110	3000 3000
14442	SYLVANIA 60PAR/CAP/IR/NFL/25 No Competitive Product Available	25	2875	5000	1110	3000
14466	SYLVANIA 60PAR/CAP/IR/FL/30 Brand X 60PAR/HIR/FL30	30 30	2875 2875	3600 3600	1110 1110	3000 3000

IR Coated Capsule

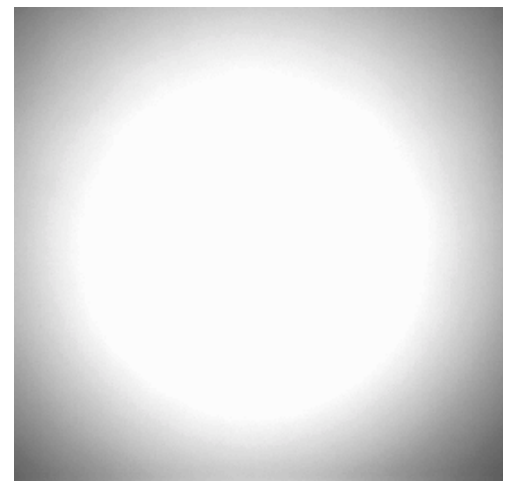
While producing visible light, all incandescent and halogen filaments also produce a significant amount of infrared heat. Unfortunately, the infrared energy produced by the filament is wasted. The wasted energy also increases the load on HVAC systems. The CAPSYLITE IR lamp has a multi-layered thin film 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 the filament. The reflected heat helps to maintain the coil at its optimum operating temperature and lowers its power consumption. 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



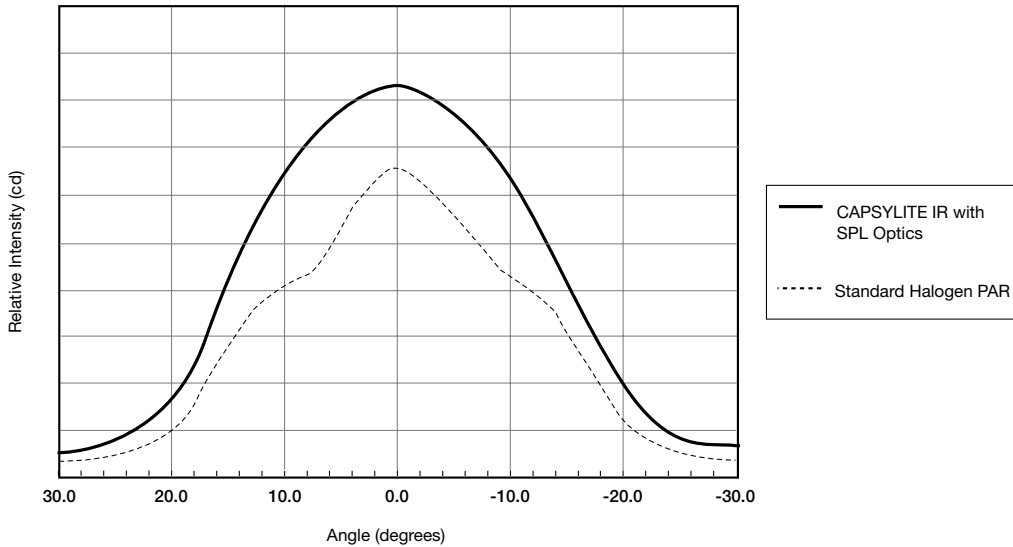
New CAPSYLITE IR

CAPSYLITE SPL Optical System

PAR38 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.

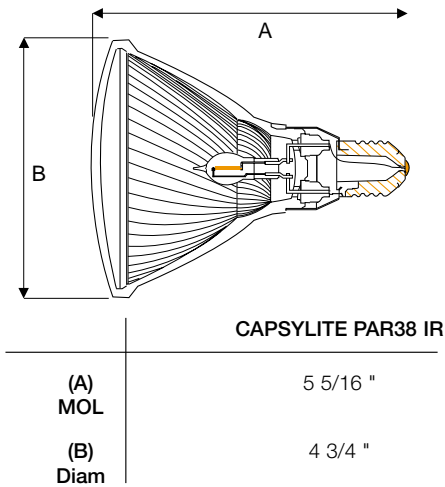
Beam Performance

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

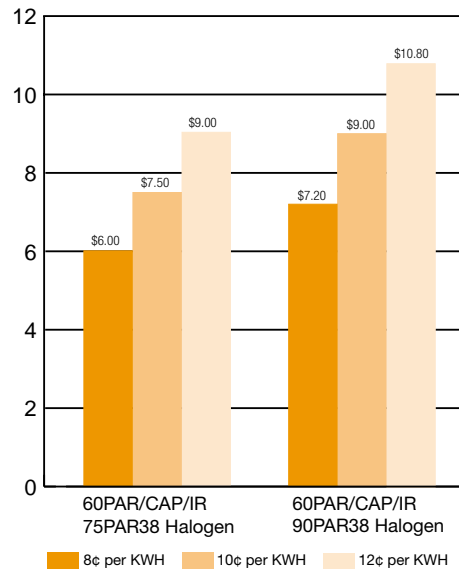


The beam performance of the CAPSYLITE IR product line with SPL optics will change the way PAR lamps are specified. Traditionally, PAR lamps were designed to provide peak intensity in the center of the beam and the light level dropped rapidly from that point. In contrast, the CAPSYLITE IR product line 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



Energy Cost Savings for PAR38 IR*



*Based on 3000 hour lamp life

Footcandle

50PAR/CAP/IR/SP9

Wattage 50 CBCP 14000
Lumens 850 Beam Angle 9
PAR 38

Distance feet	fc*	Diameter feet
8	219	1.7
10	140	2.0
12	97	2.3
14	71	2.6
16	55	2.9

50PAR/CAP/IR/NFL25

Wattage 50 CBCP 3000
Lumens 850 Beam Angle 25
PAR 38

Distance feet	fc*	Diameter feet
4	188	2.2
5	120	2.6
6	83	3.1
7	61	3.5
8	47	3.9

60PAR/CAP/IR/SP9

Wattage 60 CBCP 20000
Lumens 1110 Beam Angle 9
PAR 38

Distance feet	fc*	Diameter feet
10	200	2.0
12	139	2.3
14	102	2.6
16	78	2.9
18	62	3.2

60PAR/CAP/IR/WSP12

Wattage 60 CBCP 12000
Lumens 1110 Beam Angle 12
PAR 38

Distance feet	fc*	Diameter feet
8	188	2.1
10	120	2.5
12	83	2.9
14	61	3.3
16	47	3.8

60PAR/CAP/IR/NFL25

Wattage 60 CBCP 5000
Lumens 1110 Beam Angle 25
PAR 38

Distance feet	fc*	Diameter feet
6	139	3.1
7	102	3.5
8	78	3.9
9	62	4.4
10	50	4.8

60PAR/CAP/IR/FL9

Wattage 60 CBCP 3600
Lumens 1110 Beam Angle 30
PAR 38

Distance feet	fc*	Diameter feet
5	144	3.1
6	100	3.6
7	73	4.1
8	56	4.7
9	44	5.2

*Approximate footcandle values

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	Volts	Watts	Base	Avg. Rated Life (hrs.)	CBCP	Beam Angle	Lumens	MOL
14136	50PAR/CAP/IR/SP9	120	50	Medium Skirt	3000	14,000	9°	850	5 5/16
14124	50PAR/CAP/IR/SP9	130	50	Medium Skirt	3000	14,000	9°	850	5 5/16
14138	50PAR/CAP/IR/NFL25	120	50	Medium Skirt	3000	3000	25°	850	5 5/16
14125	50PAR/CAP/IR/NFL25	130	50	Medium Skirt	3000	3000	25°	850	5 5/16
14485	60PAR/CAP/IR/SP9	120	60	Medium Skirt	3000	20,000	9°	1100	5 5/16
14716	60PAR/CAP/IR/SP9	130	60	Medium Skirt	3000	20,000	9°	1100	5 5/16
14360	60PAR/CAP/IR/WSP12	120	60	Medium Skirt	3000	12,000	12°	1100	5 5/16
14442	60PAR/CAP/IR/NFL25	120	60	Medium Skirt	3000	5000	25°	1100	5 5/16
14466	60PAR/CAP/IR/FL30	120	60	Medium Skirt	3000	3600	30°	1100	5 5/16
14715	60PAR/CAP/IR/FL30	130	60	Medium Skirt	3000	3600	30°	1100	5 5/16

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Ordering Guide

60	PAR	/	CAP	/	IR	/	SP	30
Wattage:	Parabolic		CAPSYLITE		Type		Beam	Degrees
50	Reflector				Infrared		Spread:	9°
60							SP=Spot	12°
							WSP=Wide Spot	25°
							NFL=Narrow Flood	30°