

CAPSYLITE® SPL®2 PAR38 Halogen Lamps



SYLVANIA CAPSYLITE SPL2 PAR38 lamps achieve extraordinary performance by combining a tungsten halogen capsule with a unique lens/reflector system. The new lenticuled spot lens (pictured above) helps to maximize usable lumens in the beam.

The CAPSYLITE SPL2 PAR38 product line is designed to give a more uniform intensity distribution across the beam and maximizes lumens within the beam. The result is a uniform light level on the target that maximizes the impact of the halogen source.

CAPSYLITE SPL2 PAR38 products are available in wattages ranging from 45 to 250 watts and in beam spreads ranging from 9° to 50°. There is a CAPSYLITE SPL2 PAR38 available to meet virtually any lighting need.

Key Features & Benefits

- CAPSYLITE SPL2 PAR38 spiral optical system design incorporated into lens and reflector maximizes lumens in the beam, provides superior beam control and sharp cutoff
- Improved optical system provides consistent, uniform performance from lamp-to-lamp
- Superior life: Up to 4500 hour lamp life
- Innovative technology for high performance
- Energy efficient halogen sources
- Lens stamped with beam pattern for easy identification

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



Product Offering

Product	Wattage	Beam Angle
PAR38	45	SP 9°, WSP 12°, FL 30°, WFL 50°
	60	SP 9°, NFL 25°, FL 30°
	75	SP 9°, WSP 12°, FL 30°, VWFL 50°
	90	SP 9°, WSP 12°, NFL 25°, FL 30°, WFL 50°
	120	SP 10°, FL 30°, WFL 50°
	250	SP 10°, FL 30°

Application Information

Applications

- Accent/display lighting
- Art galleries
- Floor lighting
- General lighting
- Hard-to-reach areas
- Highlight merchandise
- Homes
- Hotels
- Indoor/outdoor
- Offices
- Restaurants
- Retail

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. Distinctive appearance and superior performance due to SPL2 optics which combines spiral reflector and lens optics



Specification Data

Catalog #	Type
Project	
Comments	
Prepared by	Date

Ordering Information

Item Number	Ordering Abbreviation	Wattage	Base	Average Rated Life (hrs.)	Volts	CBCP (cd)	Beam Angle	Lumens	MOL (in.)
14590	45PAR38/HAL/SP9	45	Medium Skirt	2,500	120	10,000	9°	560	5 5/16
14593	45PAR38/HAL/SP9	45	Medium Skirt	2,500	130	10,000	9°	560	5 5/16
15538	45PAR38/HAL/SP	45	Medium Skirt	2,500	120	10,000	9°	560	5 5/16
14589	45PAR38/HAL/WSP12	45	Medium Skirt	2,500	120	6,300	12°	560	5 5/16
14592	45PAR38/HAL/WSP12	45	Medium Skirt	2,500	130	6,300	12°	560	5 5/16
14588	45PAR38/HAL/FL30	45	Medium Skirt	2,500	120	1,500	30°	560	5 5/16
14591	45PAR38/HAL/FL30	45	Medium Skirt	2,500	130	1,500	30°	560	5 5/16
15537	45PAR38/HAL/FL	45	Medium Skirt	2,500	120	1,500	30°	560	5 5/16
14010	45PAR38/HAL/WFL50	45	Medium Skirt	2,500	130	700	50°	560	5 5/16
14469	60PAR38/HAL/SP9	60	Medium Skirt	3,000	120	15,000	9°	850	5 5/16
14449	60PAR38/HAL/SP9	60	Medium Skirt	3,000	130	15,000	9°	850	5 5/16
14472	60PAR38/HAL/NFL25	60	Medium Skirt	3,000	120	3,400	25°	850	5 5/16
14468	60PAR38/HAL/FL30	60	Medium Skirt	3,000	120	2,500	30°	850	5 5/16
14448	60PAR38/HAL/FL30	60	Medium Skirt	3,000	130	2,500	30°	850	5 5/16
14514	75PAR38/HAL/SP9	75	Medium Skirt	2,500	120	21,000	9°	1,060	5 5/16
14516	75PAR38/HAL/SP9	75	Medium Skirt	2,500	130	21,000	9°	1,060	5 5/16
14510	75PAR38/HAL/WSP12	75	Medium Skirt	2,500	120	12,300	12°	1,060	5 5/16
14513	75PAR38/HAL/FL30	75	Medium Skirt	2,500	120	3,150	30°	1,060	5 5/16
14515	75PAR38/HAL/FL30	75	Medium Skirt	2,500	130	3,150	30°	1,060	5 5/16
14517	75PAR38/HAL/WFL50	75	Medium Skirt	2,500	130	1,300	50°	1,060	5 5/16
14586	90PAR38/HAL/SP9	90	Medium Skirt	2,500	120	22,000	9°	1,310	5 5/16
14587	90PAR38/HAL/SP9	90	Medium Skirt	2,500	130	22,000	9°	1,310	5 5/16
15539	90PAR38/HAL/SP	90	Medium Skirt	2,500	120	22,000	9°	1,310	5 5/16
14580	90PAR38/HAL/WSP12	90	Medium Skirt	2,500	120	14,300	12°	1,310	5 5/16
14578	90PAR38/HAL/WSP12	90	Medium Skirt	2,500	130	14,300	12°	1,310	5 5/16
14601	90PAR38/HAL/NFL25	90	Medium Skirt	2,500	130	4,700	25°	1,310	5 5/16
15545	90PAR38/HAL/FL	90	Medium Skirt	2,500	120	3,500	30°	1,310	5 5/16
14579	90PAR38/HAL/FL30	90	Medium Skirt	2,500	120	3,500	30°	1,310	5 5/16
14577	90PAR38/HAL/FL30	90	Medium Skirt	2,500	130	3,500	30°	1,310	5 5/16
14602	90PAR38/HAL/WFL50	90	Medium Skirt	2,500	130	1,600	50°	1,310	5 5/16
14856	120PAR38/HAL/SP10	120	Medium Skirt	3,000	120	23,000	10°	1,800	5 5/16
14874	120PAR38/HAL/SP10	120	Medium Skirt	3,000	130	23,000	10°	1,800	5 5/16
14855	120PAR38/HAL/FL30	120	Medium Skirt	3,000	120	4,600	30°	1,800	5 5/16
14861	120PAR38/HAL/FL30	120	Medium Skirt	3,000	130	4,600	30°	1,800	5 5/16
14594	120PAR38/HAL/WFL50	120	Medium Skirt	3,000	120	2,000	50°	1,800	5 5/16
15526	250PAR38/HAL/SP10	250	Medium Skirt	4,500	120	50,000	10°	3,600	5 5/16
15558	250PAR38/HAL/FL30	250	Medium Skirt	4,500	120	9,000	30°	3,600	5 5/16

Ordering Guide

45	PAR38	/	HAL	/	SP	9
Wattage:	Parabolic Reflector Diameter		Halogen		Beam Spread SP = Spot WSP = Wide Spot NFL = Narrow Flood FL = Flood WFL = Wide Flood	Beam Angle 9°, 10° 12° 25° 30° 50°
45						
60						
75	38 = 38/8"					
90						
120						
250						

Lamp Comparison

Product	Wattage	Lumens	Average Rated Life (hrs.)
Halogen 45PAR38	45	560	2,500
Incandescent 65BR40	65	540	2,000

Technical Information

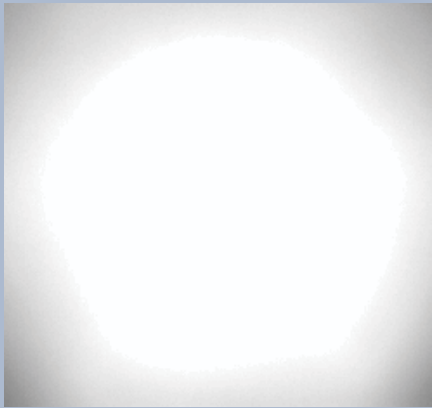
Footcandle

45PAR38/HAL/SP9				45PAR38/HAL/WSP12				45PAR38/HAL/FL30				45PAR38/HAL/WFL50				60PAR38/HAL/SP9			
Distance from Source (in ft.)	Diameter (in ft.)		fc*	Diameter (in ft.)		fc*	Diameter (in ft.)		fc*	Diameter (in ft.)		fc*	Diameter (in ft.)		fc*				
3'	0.9		1111	1.0		700	2.0		167	3.2		78	0.9		1667				
6'	1.3		278	1.7		175	3.6		42	6.0		19	1.3		417				
9'	1.8		123	2.3		78	5.2		19	8.8		9	1.8		185				
60PAR38/HAL/NFL25				60PAR38/HAL/FL30				75PAR38/HAL/SP9				75PAR38/HAL/WSP12							
Distance from Source (in ft.)	Diameter (in ft.)		fc*	Diameter (in ft.)		fc*	Diameter (in ft.)		fc*	Diameter (in ft.)		fc*	Diameter (in ft.)		fc*				
3'	1.7		378	2.0		278	0.9		2133	1.0		1367	1.7		342				
6'	3.1		94	3.6		69	1.3		533	1.7		342	2.3		152				
9'	4.4		42	5.2		31	1.8		237	2.3		152							
75PAR38/HAL/FL30				75PAR38/HAL/WFL50				90PAR38/HAL/SP9				90PAR38/HAL/WSP12				90PAR38/HAL/NFL25			
Distance from Source (in ft.)	Diameter (in ft.)		fc*	Diameter (in ft.)		fc*	Diameter (in ft.)		fc*	Diameter (in ft.)		fc*	Diameter (in ft.)		fc*				
3'	2.0		350	3.2		144	0.9		2467	1.0		1589	1.7		522				
6'	3.6		88	6.0		36	1.3		617	1.7		397	3.1		131				
9'	5.2		39	8.8		16	1.8		274	2.3		177	4.4		58				
90PAR38/HAL/FL30				90PAR38/HAL/WFL50				120PAR38/HAL/SP10				120PAR38/HAL/FL30							
Distance from Source (in ft.)	Diameter (in ft.)		fc*	Diameter (in ft.)		fc*	Diameter (in ft.)		fc*	Diameter (in ft.)		fc*	Diameter (in ft.)		fc*				
3'	2.0		389	3.2		178	0.9		2500	2.0		511	3.6		128				
6'	3.6		97	6.0		44	1.4		625	3.6		128	5.2		57				
9'	5.2		43	8.8		20	2.0		278										
120PAR38/HAL/WFL50				250PAR38/HAL/SP10				250PAR38/HAL/FL30											
Distance from Source (in ft.)	Diameter (in ft.)		fc*	Diameter (in ft.)		fc*	Diameter (in ft.)		fc*	Diameter (in ft.)		fc*	Diameter (in ft.)		fc*				
3'	3.2		244	0.9		5167	2.0		1000	0.9		5167	2.0		111				
6'	6.0		61	1.4		1292	3.6		250										
9'	8.8		27	2.0		574													

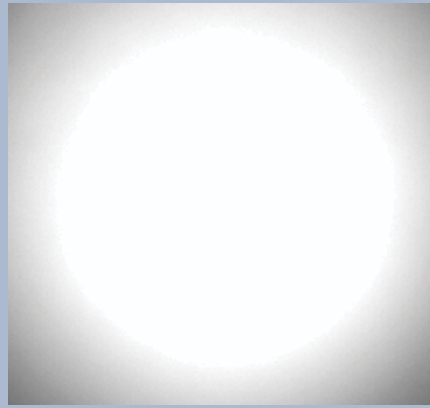
SYLVANIA CAPSYLITE® PAR lamps are available in a full range of beam angles to meet the demands of virtually any display or accent lighting application. For each available CAPSYLITE PAR lamp, this table shows how illuminance in footcandles varies as a function of distance.

*Approximate footcandle values at center of beam

Optical Performance



Standard Halogen PAR38



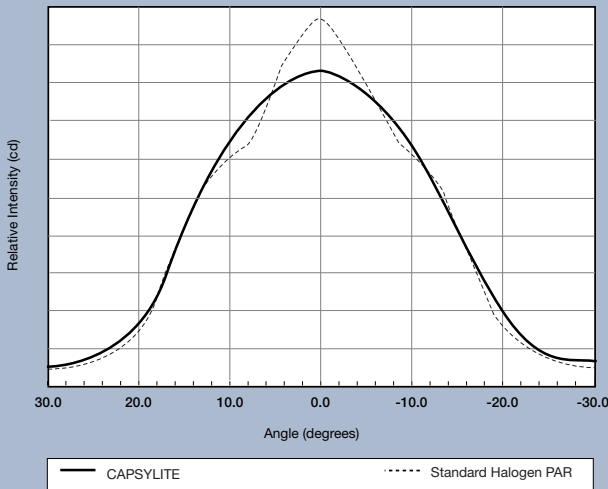
New CAPSYLITE SPL2 PAR38

CAPSYLITE® SPL®2 PAR38 Optical System

CAPSYLITE SPL PAR38 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 lenses, however, are only half of the story. The spiral flat reflectors are 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

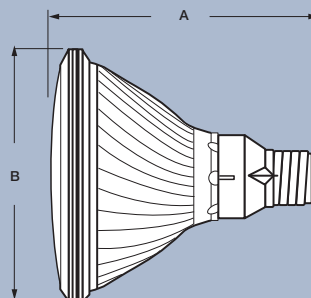
Comparison of Standard Halogen PAR to CAPSYLITE with SPL2 Optics



The beam performance of the CAPSYLITE product line with SPL2 optics changes the way PAR38 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 product line is designed to give a more uniform intensity distribution across the beam with no hot spots. The result is a uniform light level on the target that maximizes the impact of the halogen source.

Dimensions

	(A) MOL	(B) Lamp Diameter
CAPSYLITE PAR38	5-5/16"	4-3/4"



Lamp shall be CAPSYLITE SPL2 PAR38 halogen (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 SPL2 lamps easier for the end user.

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