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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 #	Туре
Project	
Comments	
Prepared by	Date

Ordering Information

ltem Number	Ordering	Wattago	Paca	Average Rated	Volto		Beam	Lumono	MOL (in)
1/500		15	Medium Skirt	2 500	120	10.000	Angle	560	5 5/16
1/503	451 AN30/TAL/51 9	45	Medium Skirt	2,500	120	10,000	 	560	5 5/16
15538	451 AN30/TAL/51 5	45	Medium Skirt	2,500	120	10,000	<u> </u>	560	5 5/16
1/500	451 AN30/TAL/51	45	Modium Skirt	2,500	120	6 200	100	560	5 5/16
14509	40FAN30/ NAL/ WOF 12	45	Modium Skirt	2,500	120	6 200	12	560	5 5/16
14092	40FAN00/HAL/W0F12	45	Modium Skirt	2,500	100	1,500	12	500	5 5/10
14000	40PAR30/RAL/FL30	40	Medium Chint	2,500	120	1,500	30	500	5 5/10
14091	40PAR38/HAL/FL30	40	Medium Skirt	2,500	130	1,500	30°	560	5 5/10
10037	40PAR38/HAL/FL	40	Medium Ckirt	2,500	120	1,500	30-	560	5 5/16
14010	45PAR38/HAL/WFL50	45		2,500	130	700	50°	560	5 5/16
14469	60PAR38/HAL/SP9	60	Medium Skirt	3,000	120	15,000	<u> </u>	850	5 5/16
14449	60PAR38/HAL/SP9	60	Medium Skirt	3,000	130	15,000	<u> </u>	850	5 5/16
144/2	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
10000	2001/11/00/11/12/1200	200		1,000	120	0,000	00	0,000	0 0/10

Ordering Guide

45	PAR38	1	HAL	1	SP	9
Wattage:	Parabolic		Halogen		Beam Spread	Beam Angle
45	Reflector				SP = Spot	9°, 10°
60	Diameter				WSP = Wide Spot	12°
75	38 = 38/8"				NFL = Narrow Flood	25°
90					FL = Flood	30°
120					WFL = Wide Flood	50°
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

Distance from Source (in ft.)

3'

6'

9'

Diameter (in ft.)

2.0

3.6

5.2





60PAR38/HAL/FL30

fc*

278

69

31

Diameter (in ft.)

2.0

3.6

5.2







fc*

350

88

39









120PAR38/HAL/WFL50



*Approximate footcandle values at center of beam



250PAR38/HAL/SP10





45PAR38/HAL/FL30

75PAR38/HAL/SP9



90PAR38/HAL/SP9

fc*

2467

617

274

625

278

fc*

1000

250

111

Diameter (in ft.)

0.9

1.3

1.8

1.4

Diameter (in ft.)

2.0

3.6

5.2



Diameter (in ft.)

78 6.0 19 8.8 9 75PAR38/HAL/WSP12

45PAR38/HAL/WFL50

fc*



90PAR38/HAL/WSP12

fc*



522 1.7 131 3.1 58 4.4

120PAR38/HAL/FL30



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.

1.4 1292 2.0 574

Diameter (in ft.)

0.9

Diameter (in ft.) fc* 0.9 2500

120PAR38/HAL/SP10

250PAR38/HAL/FL30

90PAR38/HAL/NFL25

fc*

60PAR38/HAL/SP9

fc*

1667

417

185

Diameter (in ft.)

0.9

1.3

1.8





342 152

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



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Sample Specification

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.