

## OSRAM SYLVANIA: THE LEADER IN HALOGEN LAMP TECHNOLOGY

Halogen lamps are generally of the 'lamp within a lamp' design. The outer 'lamp' or jacket is made from a heavy walled borosilicate glass. The inner 'lamp' is the tungsten halogen capsule that is made from either glass or quartz and contains a filament, lead wires and a halogen gas mixture.

### CAPSYLITE IR®

Save energy while still making your merchandise stand out from the crowd. Energy efficient SYLVANIA CAPSYLITE IR® lamps use a specially designed halogen light source that actually recycles some of the heat it creates to generate more light for less energy.



### Daylight Plus® PAR

The special blue lenses on these halogen PAR lamps help to fill your space with whiter, more natural light than standard halogen PAR or incandescent lamps.



### CAPSYLITE® Soft White Halogen PAR lamps

SYLVANIA CAPSYLITE Soft White Halogen PAR lamps provide the ultimate meeting point between the efficiency and color of a halogen lamp and the soft, glare free light distribution of an incandescent lamp. They can also be used as energy saving replacements for incandescent reflector lamps, with the 50W PAR30 Long Neck lamp replacing a standard 65W BR30 while maintaining the same light levels.



### CAPSYLITE® A-Line

Replace a standard incandescent lamp with a CAPSYLITE® A-Line lamp to get a crisp, bright, more natural light that really lasts. Average rated life for these lamp types is 3,000 to 3,500 hours - up to four times the ratings of the lamps that they replace!



### Soft Glass Halogen Lamps

SYLVANIA soft glass halogen lamps are an outstanding replacement for standard incandescent lamps in any application. All of the lamps fit standard fixtures, allowing them to be used anywhere to add a new dimension to home or business lighting



### OSRAM MINISTAR™

OSRAM MINISTAR lamps represent a revolution in halogen reflector lamp design. Their unique integration of the reflective surface and the halogen capsule creates the world's smallest halogen reflector lamps.



### TRU-AIM® Low Voltage Lamps

SYLVANIA's complete line of TRU-AIM low voltage lamps provides a wide variety of extremely compact and highly directional light sources. Choose from standard MR16s (TRU-AIM), aluminized MR16s (TRU-AIM Brilliant), or top of the line TRU-AIM IR.



## FILAMENTS



CC-8



CC-2V



CC-6



Axial (AX)



Tranverse (TR)



C-8 Double End

## BASES



E10  
Miniature Screw



E11 Mini can



E26 Medium Skt.



E26 Medium



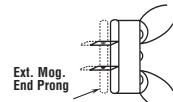
Recessed Single Contact  
RSC  
R7s



Screw Term.



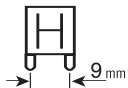
DC Bayonet  
B15d  
BA15d



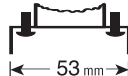
Mogul End Prong



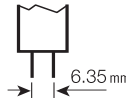
G4



G9



G53



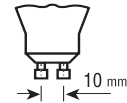
GY 6.35



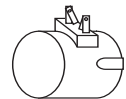
GU4



GU5.3



GU10



Med Side Pr.

## LAMPS



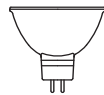
BT4



BT4T3, T4 BI-PIN



T4 G9.



MR16, MR11



PAR14



PAR16



PAR16 GU10



PAR20



F17



PAR30



PAR30LN



PAR36  
Medium Skt.



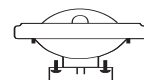
PAR38



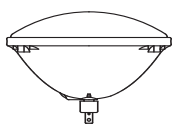
PAR38  
Medium Side Prong



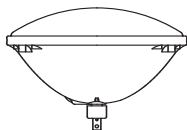
AR70



AR111



PAR56 Mog End Pr



PAR64 Mog End Pr



T4 DC Bayonet



T3, T4 Mini Can



T3, T4 RSC Double End



T10



B11



BT15



A19



G25

## HOW TO READ PRODUCT INFORMATION - TUNGSTEN HALOGEN

Watts	Bulb	Base	Product Number	Symbols & Footnotes	Ordering Abbreviation	Volts	Pkg Qty	Lamp Finish	Beam Type	Class & Filament	Avg Rated Life (hrs)	Approx Lumens	CBCP	Beam Angle	LCL (in)	MOL (in)
40	T4	G9	57017	☀ 5,10	40T4/G9/F/BL	120	10	Frosted		C, CC-2V	2000	480			1.00	1.88
60	PAR38	E26 Med Skt	14466	☀ ★ 10,11	60PAR/CAP/IR/FL30	120	15		Flood	CC-8	3000	1110	3600	30		5.31
50	PAR30LN	E26 Med	14520	☀ ★ 10,19,20	50PAR30LN/HAL/NFL25	120	15		Narrow Flood	CC-8	2500	660	2300	25		4.63

<b>Bulb</b>	Describes the shape of the bulb followed by the bulb's major diameter given in eighths of an inch. See page 42: Halogen Lamps.
<b>Base</b>	See page 42: Base Identification.
<b>Symbols &amp; Footnotes</b>	All symbols and footnotes that apply to a specific product will appear in this space. The explanations of the symbols and footnotes are at the end of the halogen section on page 64.
<b>Lamp Finish</b>	Applies only to non-reflector type lamps, usually either clear or frosted.
<b>Beam Type</b>	Applies only to reflector type lamps. Describes the beam angle qualitatively as either a spot or a flood, etc.

### How to Read Ordering Abbreviations

40T4/G9/F/BL		60PAR/CAP/IR/FL30		50PAR30LN/HAL/NFL25	
40	Nominal lamp wattage	60	Nominal lamp wattage	50	Nominal lamp wattage
T4/G9	T4 lamp with G9 base	PAR	Bulb shape PAR38	PAR30LN	Bulb shape PAR30 Long Neck
F	Frosted finish	CAP	CAPSYLITE lamp	HAL	Halogen lamp
BL	Blister Card Package	IR	Infrared conserving capsule	NFL25	Narrow Flood beam 25 degrees
		FL30	Flood beam 30 degrees		

### ANSI BEAM ANGLE DESIGNATION

Beam angles for reflector lamps are designated to conform with ANSI C78.379 -Classification of the Beam Patterns of Reflector Lamps. For beam angles less than 13°, beam angles are rounded to the nearest whole number. For beam angles between 13° and 50°, values are rounded to the nearest 5°. For beam angles 50° and greater, the value is rounded to the nearest 10°. As an example, a family of lamps with an average beam angle of 13° is classified as 15°, and a family of lamps with an average beam angle of 54° would be classified as 50°.

### LIFE RATING

The average rated life for 130V tungsten halogen lamps operated at 120V is conservatively estimated to be approximately 2 times the life when operated at 130V.

### ANSI CODE REFERENCE GUIDE

ANSI CODE	ITEM NO.	L.L. ORDERING ABBREVIATION (EXCEPT VOLTS)	VOLTS	ANSI CODE	ITEM NO.	L.L. ORDERING ABBREVIATION (EXCEPT VOLTS)	VOLTS	ANSI CODE	ITEM NO.	L.L. ORDERING ABBREVIATION (EXCEPT VOLTS)	VOLTS
BAB	58301	20MR16/T/FL35/C	12	ETD	58757	100Q/DC	120	FMW	58305	35MR16/T/FL35/C	12
EHM	58998	300T3Q/CL	120	ETF	58737	150Q/DC	120	FNV	58310	50MR16/T/WFL60/C	12
EHT	58762	250Q/CL/MC	120	ETG	58735	150Q/CL/MC/2	120	FPA	58311	65MR16/T/SP10/C	12
ESL	58738	150Q/CL/MC	120	ETH	58736	150Q/MC	120	FPB	58313	65MR16/T/FL35/C	12
ESM	58763	250Q/MC	120	EVR	58766	500Q/CL/MC	120	FPC	58312	65MR16/T/NFL25/C	12
ESN	58761	100Q/CL/MC	120	EXN	58309	50MR16/T/FL35/C	12	FRB	58303	35MR16/T/SP10/C	12
ESP	58742	150Q/CL/DC/1	120	EXT	58307	50MR16/T/SP10/C	12	FTB	55133	20MR11/T/SP10/C	12
ESR	58755	100Q/CL/DC	120	EXZ	58308	50MR16/T/NFL25/C	12	FTD	55134	20MR11/T/FL35/C	12
ESS	58720	250Q/CL/DC	120	EYV	58768	500Q/MC	130	FTE	55135	35MR11/T/SP10/C	12
ESX	58300	20MR16/T/SP10/C	12	EYW	58756	500Q/CL/MC	130	FTH	55136	35MR11/T/FL35/C	12
ETB	58753	250Q/DC	120	EYX	58767	500Q/MC	120				
ETC	58741	150Q/CL/DC	120	FCL	58996	500T3Q/CL	120				

## TUNGSTEN HALOGEN BRAND NAME GUIDE

SYLVANIA	GE*	PHILIPS**	OSRAM***
CAPSYLITE IR®	HIR PAR	Energy Advantage IR	
CAPSYLITE®	HALOGEN PLUS / HALOGEN Compact	Halogen WISO Reflector	HALOPAR
CAPSYLITE® COOL-LUX	Cool Beam PAR	Cool Beam Reflector	
CAPSYLITE® Designer 16	HALOGEN Compact PAR16	Halogen PAR16	HALOPAR16
CAPSYLITE® A-Line	A-Line		
Daylight Plus® PAR	Reveal	Natural	
TRU-AIM IR®	PRECISE COVERGLASS IR MR16	Halogen MR Energy Advantage IR	Decostar 51 IRC
TRU-AIM TITAN®	ConstantColor Precise Cover Glass	Halogen MR Long Life	Decostar 51 TITAN
TRU-AIM BRILLIANT®		Halogen MR Aluminum	Decostar 51 ALU
TRU-AIM® Standard MR16	Standard MR16	Halogen MR	Decostar 51
TRU-AIM® MR11	STANDARD MR11	Halogen MRC-11	Decostar 35
Softwhite Halogen PAR			
STANDARD Bi-Pin	Quartz Halogen		HALOSTAR Standard
STARLITE Bi-Pin		Halogen Low Voltage Capsule	HALOSTAR STARLITE
Double End	Quartzline	Halogen Double-Ended Linear	HALOLINE
SUPER Q	Halogen	Halogen Single-Ended	HALOLUX Ceram
Large PAR	Halogen		
Tubular Halogen T10	T10		HALOLUX Ceram
AR111	AR111	ALU Line PRO 111	HALOSPOT 111
AR70		Closed Aluminum Reflector	HALOSPOT 70
Soft Glass Halogen	A-Line / Decorative	Halogena	HALOLUX BT
Softwhite Halogen PAR			
Osram MINISTAR			MINISTAR

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**For weight and measurement information, please visit [www.sylvania.com](http://www.sylvania.com)**



PAR16 GU10



PAR16 GU10



PAR20

## CAPSYLITE® PAR16 LAMPS

Suitable for use in unshielded fixtures.

Watts	Bulb	Base	Product Number	Symbols & Footnotes	Ordering Abbreviation	Volts	Pkg Qty	Beam Type	Class & Filament	Avg Rated Life(hrs)	Lumens CCT	CBCP	Beam Angle	MOL (in)
50	PAR16	GU10	59061	72	<b>50PAR16/HAL/GU10/FL/BL3</b>	120	18	FL	C,CC-8	3000	450 2800	800	30	2.25
			59075	72	<b>50PAR16/HAL/GU10/FL/BL</b>	120	6	FL	C,CC-8	3000	450 2800	800	30	2.25
			59024	68	<b>50PAR16/HAL/GU10/FL40</b>	120	10	FL	C,CC-2V	1000	400 2950	640	40	2.08
			59020	68	<b>50PAR16/HAL/GU10/FL/CLAM</b>	120	6	FL	C,CC-2V	1000	400 2950	640	40	2.08
60	PAR16	E26 Med	59032	69,118	<b>60PAR16/HAL/NSP10</b>	120	15	NSP	C,CC-8	2000	650 2850	5000	10	2.88
			59037	69,118	<b>60PAR16/HAL/NSP10/RP</b>	120	6	NSP	C,CC-8	2000	650 2850	5000	10	2.88
			59040	69,118,137,169	<b>60PAR16/HAL/NSP10</b>	130	15	NSP	C,CC-8	2000	650 2850	5000	10	2.88
			@ 120 volts, approximate 53 watts, 495 lumens, 4000 hours											
			59030	69,118	<b>60PAR16/HAL/NFL30</b>	120	15	NFL	C,CC-8	2000	650 2850	1300	30	2.88
			59031	69,118	<b>60PAR16/HAL/NFL30/RP</b>	120	6	NFL	C,CC-8	2000	650 2850	1300	30	2.88
75	PAR16	E26 Med	59036	69,118	<b>75PAR16/HAL/NSP10</b>	120	15	NSP	C,CC-8	2000	900 2900	7500	10	2.88
			59044	69,118,137,180	<b>75PAR16/HAL/NSP10</b>	130	15	NSP	C,CC-8	2000	900 2900	7500	10	2.88
			@ 120 volts, approximate 66 watts, 685 lumens, 4000 hours											
			59034	69,118	<b>75PAR16/HAL/NFL30</b>	120	15	NFL	C,CC-8	2000	900 2900	1900	30	2.88
			59033	69,118	<b>75PAR16/HAL/NFL30/RP</b>	120	6	NFL	C,CC-8	2000	900 2900	1900	30	2.88
59042	69,118,137,180	<b>75PAR16/HAL/NFL30</b>	130	15	NFL	C,CC-8	2000	900 2900	1900	30	2.88			
@ 120 volts, approximate 66 watts, 685 lumens, 4000 hours														

## CAPSYLITE IR® PAR20

Halogen PAR lamp with infrared reflective coating on the lamp capsule. Suitable for use in unshielded fixtures.

Watts	Bulb	Base	Product Number	Symbols & Footnotes	Ordering Abbreviation	Volts	Pkg Qty	Beam Type	Class & Filament	Avg Rated Life(hrs)	Lumens CCT	CBCP	Beam Angle	MOL (in)
40	PAR20	E26 Med	14164	43,47,118	<b>40PAR20/CAPIR/NSP10</b>	120	15	NSP	C,CC-8	4000	510 2750	4200	10	3.25
			14166	43,47,118	<b>40PAR20/CAPIR/NFL30</b>	120	15	NFL	C,CC-8	4000	510 2750	1100	30	3.25
			14130	43,47,118	<b>40PAR20/CAPIR/WFL40</b>	120	15	WFL	C,CC-8	4000	510 2750	800	40	3.25