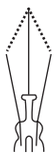
FILAMENTS


CC-8


CC-2V


CC-6


Axial (AX)


Transverse (TR)


C-8 Double End

BASES


CC-8
Miniature Screw


E11 Mini can

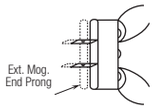

E26 Medium Skt.


E26 Medium

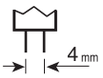

Recessed Single Contact
RSC
R7s


Screw Term.

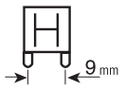

DC Bayonet
B15d
BA15d



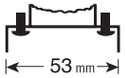
Mogul End Prong



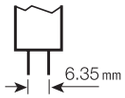
G4



G9



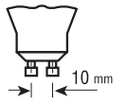
G53



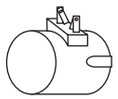
GY 6.35

GU4

GU5.3



GU10


Med Side Pr.

LAMPS


A19


F17


T4 BI-PIN


T4 G9


MR16, MR11


PAR14


PAR16


PAR16 GU10


R20


BR30, BR40


PAR20


PAR30

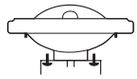

PAR30LN

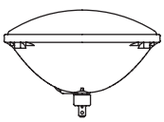

PAR36
Medium Skt.

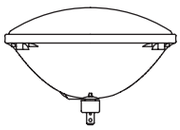

PAR38


PAR38
Medium Side Prong


AR70

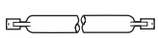

AR111


PAR56 Mog End Pr


PAR64 Mog End Pr


T4 DC Bayonet


T3, T4 Mini Can


T3, T4 RSC Double End


B11

[1] Life in Years based on 3 hours operation per day.
[2] Cost per Year based on 3 hours per day, $0.11 per KWh.

For the current listing of available products and more complete product information, please visit us at www.sylvania.com.

HOW TO READ PRODUCT INFORMATION – HALOGEN

Nominal Wattage	Bulb Shape	MOL (in)	Base	Product Number	Ordering Abbreviation	Finish	Pkg Qty	Average Rated Life (hrs)	Initial Lumens	CCT	CRI	Filament	Life (years)	Cost per Year	Notes

Bulb	Describes the shape of the bulb followed by the bulb's major diameter given in eighths of an inch. See page 14: Halogen lamps.
Base	Base Identification. See page 14: Bases.
Symbols & Footnotes	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.
Lamp Finish	Applies only to non-reflector type lamps, usually either clear or frosted.
Beam Type	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/CL/BL		60PAR38/HAL/IR/NFL25/DL		60PAR30LN/HAL/S/WFL50	
40	Nominal lamp wattage	60	Nominal lamp wattage	60	Nominal lamp wattage
T4/G9	T4 lamp with G9 base	PAR38	Bulb shape PAR38	PAR30LN	Bulb shape PAR30 Long Neck
F, CL	Frosted finish, clear finish	HAL	Halogen lamp	HAL	Halogen lamp
BL	Blister Card Package	IR	Infrared conserving capsule	S	Silver coated reflector
		NFL25	Flood beam 25 degrees	WFL50	Wide Flood beam 50 degrees
		DL, TL	Double Life, Triple Life		

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 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	ETC	58741	150Q/CL/DC	120	FCL	58996	500T3Q/CL	120
EHM	58998	300T3Q/CL	120	ETG	58735	150Q/CL/MC/2	120	FMW	58305	35MR16/T/FL35/C	12
EHT	58762	250Q/CL/MC	120	ETH	58736	150Q/MC	120	FNV	58310	50MR16/T/WFL60/C	12
ESL	58738	150Q/CL/MC	120	EVR	58766	500Q/CL/MC	120	FRB	58303	35MR16/T/SP10/C	12
ESM	58763	250Q/MC	120	EXN	58309	50MR16/T/FL35/C	12	FTB	55133	20MR11/T/SP10/C	12
ESN	58761	100Q/CL/MC	120	EXZ	58308	50MR16/T/NFL25/C	12	FTD	55134	20MR11/T/FL35/C	12
ESR	58755	100Q/CL/DC	120	EYV	58768	500Q/MC	130	FTE	55135	35MR11/T/SP10/C	12
ESS	58720	250Q/CL/DC	120	EYW	58756	500Q/CL/MC	130	FTH	55136	35MR11/T/FL35/C	12
ESX	58300	20MR16/T/SP10/C	12	EYX	58767	500Q/MC	120				

[1] Life in Years based on 3 hours operation per day.
[2] Cost per Year based on 3 hours per day, $0.11 per KWh.


PAR38


PAR38


AR70

DIRECTIONAL HALOGEN REFLECTOR LAMPS (cont.)

CAPSYLITE® PAR38 Reflector Lamps – Colored Lamps (120V)

Nominal Wattage	Bulb Shape	MOL (in)	Base	Product Number	Ordering Abbreviation	Pkg Qty	Average Rated Life (hrs)	Beam Angle	Initial Lumens	CBCP	CCT (K)	CRI	Life in Years[1]	Cost per Year[2]	Notes
90	PAR38	5.31	E26 Medium Skirted	16660	90PAR38/FL/Y/RP 120V	6	2000	30	Yellow	–	–	–	–	–	★ I/O, 2,5,6
				16661	90PAR38/FL/R/RP 120V	6	2000	30	Red	–	–	–	–	–	★ I/O, 2,5,6
				16662	90PAR38/FL/A/RP 120V	6	2000	30	Amber	–	–	–	–	–	★ I/O, 2,5,6
				16663	90PAR38/FL/B/RP 120V	6	2000	30	Blue	–	–	–	–	–	★ I/O, 2,5,6
				16665	90PAR38/FL/G/RP 120V	6	2000	30	Green	–	–	–	–	–	★ I/O, 2,5,6

CAPSYLITE PAR36 Halogen Reflector Lamps (12V)

Nominal Wattage	Bulb Shape	MOL (in)	Base	Product Number	Ordering Abbreviation	Pkg Qty	Average Rated Life (hrs)	Beam Angle	Initial Lumens	CBCP	CCT (K)	CRI	Filament	Notes
36	PAR36	2.75	Screw Terminal	55057	36PAR36/HAL/WFL32/SCR 12V	12	4000	32	7	1000	3000	100	C-8	I/O, 2,5,6
				55090	36PAR36/HAL/NSP13 12V	12	4000	13	500	3500	3000	100	C-8	I/O, 2,5,6
				55091	36PAR36/HAL/WFL30 12V	12	4000	30	500	1000	3000	100	C-8	I/O, 2,5,6
				55100	36PAR36/HAL/VNSP5 12V	12	4000	5	500	17000	3000	100	C-8	I/O, 2,5,6
50	PAR36	2.75	Screw Terminal	55118	50PAR36/HAL/NSP6 12V	12	4000	6	700	25000	3000	100	C-8	I/O, 2,5,6
				55017	50PAR36/HAL/WFL30 12V	12	4000	30	700	1400	3000	100	C-8	I/O, 2,5,6

AR70 & AR111 Halogen Aluminum Reflector Lamps (12V)

AR70 Aluminum Reflector Lamps – UV Filter capsule with axial filament, engineered for precise aiming (12V)

Nominal Wattage	Bulb Shape	MOL (in)	Base	Product Number	Ordering Abbreviation	Pkg Qty	Average Rated Life (hrs)	Beam Angle	Initial Lumens	CBCP	CCT (K)	CRI	Filament	Notes
20	AR70	1.97	BA15d Double Contact Bayonet	59013	20AR70/SP8 12V	10	3000	8	150	7700	3000	100	C-8	6,7
				59012	20AR70/FL25 12V	10	3000	25	150	900	3000	100	C-8	6,7
50	AR70	1.97	BA15d Double Contact Bayonet	59017	50AR70/SP8 12V	10	3000	8	400	12500	3000	100	C-8	6,7
				59016	50AR70/FL25 12V	10	3000	25	400	2600	3000	100	C-8	6,7

[1] Life in Years based on 3 hours operation per day.
[2] Cost per Year based on 3 hours per day, $0.11 per KWh.

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NOTES FOR HALOGEN LAMPS

Symbol	Description
●	Indicates aluminum base.
⧗	Operate base down to horizontal.
★	Heat resistant, hard glass.
I/O	PAR lamps are suitable for indoor and outdoor use.
Ⓔ	This lamp or ballast meets minimum Federal efficiency standards.
	This ECOLOGIC® lamp was designed to pass the Federal TCLP criteria for classification as non-hazardous waste in most states. Disposal regulations may vary; check local and state regulations.

Footnote	Description
1	Designed for service other than illumination.
2	Suitable for indoor and outdoor use.
3	For indoor use only.
4	Because this bulb radiates considerable heat, do not use in enclosed, close fitting fixtures, or in close proximity to people, combustible materials or substances adversely affected by heat or drying.
5	Even though this bulb may continue to light after the outer bulb, lens or reflector is cracked or broken, it should be replaced as soon as possible since the pressure filled inner capsule could unexpectedly shatter, creating a risk of personal injury or property damage. In addition, the inner capsule produces ultraviolet radiation that can cause injury to the eyes and skin with prolonged exposure without the blocking effect of the outer glass bulb.
6	To avoid electric shock and/or skin burns, turn off power and allow bulb to cool before handling or attempting replacement.
7	For indoor or outdoor use where not directly exposed to weather. Exposure to weather may damage the bulb.
8	Lamp may not be operated on a dimmer or DC current.
9	Complies with part 15 of FCC rules.
10	Use only in fixtures designed to adequately dissipate heat from lamp.
11	A protective shield must be used external to the lamp.
12	A suitable protective shield, screening technique or both must be used to protect people and surroundings from the possibility of a lamp shattering and from possible ultraviolet radiation.

Specifications subject to change without notice.