

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

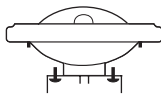
Beam angles for reflector lamps are designated to conform with ANSI C78.379 – Classification of the Beam Patterns of Reflector Lamps. For beam angles less than 13°, beam angles are rounded to the nearest whole number. For beam angles between 13° and 50°, values are rounded to the nearest 5°. For beam 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

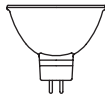
The average rated life for 130V halogen lamps operated at 120V is conservatively estimated to be approximately 2 times the life when operated at 130V.

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				

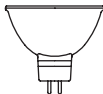
¹ Life in years based on 3 hours operation per day.
² Cost per Year based on 3 hours per day, \$0.11 per kWh.



AR111



MR11



MR16

AR111 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
35	AR111	2.64	Push Screw Terminal	55102	35AR111/SSP4 12V	6	3000	4	350	35000	3000	100	C-8	 6,7
				55110	35AR111/SP8 12V	6	3000	8	350	14000	3000	100	C-8	 6,7
				55114	35AR111/FL25 12V	6	3000	25	350	2500	3000	100	C-8	 6,7
50	AR111	2.64	Push Screw Terminal	55105	50AR111/SSP4 12V	6	3000	4	570	40000	3000	100	C-8	 6,7
				55104	50AR111/SP8 12V	6	3000	8	570	20000	3000	100	C-8	 6,7
				55103	50AR111/FL25 12V	6	3000	25	570	4000	3000	100	C-8	 6,7
75	AR111	2.64	Push Screw Terminal	55125	75AR111/SP8 12V	6	3000	8	880	30000	3000	100	C-8	 6,7
				55123	75AR111/FL25 12V	6	3000	25	880	5300	3000	100	C-8	 6,7
100	AR111	2.64	Push Screw Terminal	55129	100AR111/SP8 12V	6	3000	8	1200	48000	3000	100	C-8	 6,7
				55127	100AR111/FL25 12V	6	3000	25	1200	8500	3000	100	C-8	 6,7

TRU-AIM® MR11/MR16 Halogen Lamps (12V)

TRU-AIM MR11 Lamps – UV Filter capsule with axial filament in covered, dichroic reflector (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	MR11	1.63	GU4 Bipin	55133	20MR11/T/SP10/C(FTB) 12V	10	4000	10	270	4000	3000	100	Axial	 5,6,7
				55134	20MR11/T/FL35/C(FTD) 12V	10	4000	35	270	700	3000	100	Axial	 5,6,7
35	MR11	1.63	GU4 Bipin	55135	35MR11/T/SP10/C(FTE) 12V	10	4000	10	580	6200	3000	100	Axial	 5,6,7
				55136	35MR11/T/FL35/C(FTH) 12V	10	4000	35	580	1350	3000	100	Axial	 5,6,7

TRU-AIM MR16 Lamps – UV Filter capsule with axial filament in covered, dichroic reflector (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	MR16	1.75	GU5.3 Bipin	54305	20MR16/SP10/C(ESX) 12V	20	2000	10	250	3000	3000	100	Axial	 5,6,7
				54306	20MR16/FL35/C(BAB) 12V	20	2000	35	250	510	3000	100	Axial	 5,6,7
				58514	20MR16/FL/C/BAB/CLAM 12V	6	2000	35	200	780	3000	100	Axial	 5,6,7
35	MR16	1.75	GU5.3 Bipin	58324	35MR16/FL35/C(FMW)12V	20	2000	35	500	1000	3000	100	Axial	 5,6,7
				54307	35MR16/SP10/C(FRB)12V	20	2000	10	500	6200	3000	100	Axial	 5,6,7
				58322	35MR16/NFL25/C 12V	20	2000	25	500	2000	3000	100	Axial	 5,6,7
50	MR16	1.75	GU5.3 Bipin	58325	50MR16/SP10/C(EXT) 12V	20	2000	10	700	7800	3000	100	Axial	 5,6,7
				58326	50MR16/NFL25/C(EXZ) 12V	20	2000	25	700	2800	3000	100	Axial	 5,6,7
				58327	50MR16/FL35/C(EXN) 12V	20	2000	35	700	1450	3000	100	Axial	 5,6,7
				58328	50MR16/WFL60/C(FNW) 12V	20	2000	60	700	690	3000	100	Axial	 5,6,7
				58516	50MR16/FL/C/EXN/CLAM 12V	6	2000	35	600	2200	3000	100	Axial	 5,6,7

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.