

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

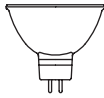
Beam angles for reflector lamps are designated to conform with ANSI C78.379 – Classification of the Beam Patterns of Reflector Lamps. For beam angles less than 13°, beam angles are rounded to the nearest whole number. For beam angles between 13° and 50°, values are rounded to the nearest 5°. For beam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



MR16

HALOGEN

DIRECTIONAL HALOGEN REFLECTOR LAMPS (cont.)

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

TRU-AIM BRILLIANT MR16 Lamps – UV Filter capsule with axial filament, constant color aluminum reflector

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	58314	20MR16/B/SP10 12V	20	4000	10	250	5000	3000	100	Axial	5,6,7,11
				58315	20MR16/B/FL35 12V	20	4000	35	250	780	3000	100	Axial	5,6,7,11
35	MR16	1.75	GU5.3 Bipin	58317	35MR16/B/FL35 12V	20	4000	35	500	1500	3000	100	Axial	5,6,7,11
50	MR16	1.75	GU5.3 Bipin	58319	50MR16/B/SP10 12V	20	4000	10	700	11500	3000	100	Axial	5,6,7,11
				58320	50MR16/B/NFL25 12V	20	4000	25	700	4400	3000	100	Axial	5,6,7,11
				58321	50MR16/B/FL35 12V	20	4000	35	700	2200	3000	100	Axial	5,6,7,11
				58511	50MR16/B/FL35/C 12V	20	4000	35	700	2200	3000	100	Axial	5,6,7,11
				58516	50MR16/FL/C/EXN/CLAM 12V	6	2000	35	600	2200	3000	100	Axial	5,6,7,11

TRU-AIM TITAN MR16 Lamps – UV Filter capsule with axial filament in covered, constant color hard dichroic reflector

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	58300	20MR16/T/SP10/C(ESX) 12V	20	4000	10	300	5000	3000	100	Axial	5,6,7
				58301	20MR16/T/FL35/C(BAB) 12V	20	4000	35	300	780	3000	100	Axial	5,6,7
				58302	20MR16/T/WFL60/C 12V	20	4000	60	300	350	3000	100	Axial	5,6,7
35	MR16	1.75	GU5.3 Bipin	58303	35MR16/T/SP10/C(FRB) 12V	20	4000	10	700	9100	3000	100	Axial	5,6,7
				58304	35MR16/T/NFL25/C 12V	20	4000	25	700	3100	3000	100	Axial	5,6,7
				58305	35MR16/T/FL35/C(FMW) 12V	20	4000	35	700	1500	3000	100	Axial	5,6,7
				58306	35MR16/T/WFL60/C 12V	20	4000	60	700	700	3000	100	Axial	5,6,7
50	MR16	1.75	GU5.3 Bipin	58307	50MR16/T/SP10/C(EXT) 12V	20	4000	10	900	11500	3000	100	Axial	5,6,7
				58308	50MR16/T/NFL25/C(EXZ) 12V	20	4000	25	900	4400	3000	100	Axial	5,6,7
				58309	50MR16/T/FL35/C(EXN) 12V	20	4000	35	900	2200	3000	100	Axial	5,6,7
				58310	50MR16/T/WFL60/C(FNV) 12V	20	4000	60	900	1100	3000	100	Axial	5,6,7

TRU-AIM IR Infrared MR16 Lamps – UV Filter capsule with axial filament in covered, constant color hard dichroic reflector

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	58531	20MR16/IR/SP10/C 12V	20	5000	10	380	6000	3000	100	Axial	5,6,7
				58532	20MR16/IR/NFL25/C 12V	20	5000	25	380	2300	3000	100	Axial	5,6,7
				58533	20MR16/IR/FL35/C 12V	20	5000	35	380	1000	3000	100	Axial	5,6,7
				58838	20MR16/IR/WFL60/C 12V	20	5000	60	380	450	3000	100	Axial	5,6,7
37	MR16	1.75	GU5.3 Bipin	58641	37MR16/IR/SP10/C 12V	20	5000	10	800	12500	3000	100	Axial	5,6,7
				58634	37MR16/IR/NFL25/C 12V	20	5000	25	800	4400	3000	100	Axial	5,6,7
				58633	37MR16/IR/FL35/C 12V	20	5000	35	800	2200	3000	100	Axial	5,6,7
				58837	37MR16/IR/WFL60/C 12V	20	5000	60	800	1100	3000	100	Axial	5,6,7
50	MR16	1.75	GU5.3 Bipin	54175	50MR16/IR/SP10/C 12V	20	5000	10	1100	15000	3000	100	Axial	5,6,7
				54174	50MR16/IR/NFL25/C 12V	20	5000	25	1100	5700	3000	100	Axial	5,6,7
				54173	50MR16/IR/FL35/C 12V	20	5000	35	1100	2850	3000	100	Axial	5,6,7
				54237	50MR16/IR/WFL60/C 12V	20	5000	60	1100	1430	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.

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