

Watts	Bulb	Base	Product Number	Symbols, Footnotes	Ordering Code	Volts	Pkg. Qty.*	Description	Class, Filament	MOL (In.)	Rated Avg. Life (93)	Approx. MBCP*	Lumens
<b>Halogená® Classic</b> Blister-Carded (96)													
60	BT-15	Med.	24924-3	(96)	BC60BT15/HAL/CL	120	10	Clear, Blister Card	C, CC-8	4	3000	—	900
			24926-8	(96)	BC60BT15/HAL/W	120	10	White, Blister Card	C, CC-8	4	3000	—	840
75	BT-15	Med.	24927-6	(96)	BC75BT15/HAL/W	120	10	White, Blister Card	C, CC-8	4	3000	—	1120
100	BT-15	Med.	24931-8	(96)	BC100BT15/HAL/W	120	10	White, Blister Card	C, CC-8	4	3000	—	1670
150	BT-15	Med.	24933-4	(96)	BC150BT15/HAL/W	120	10	White, Blister Card	C, CC-8	4	3000	—	2650

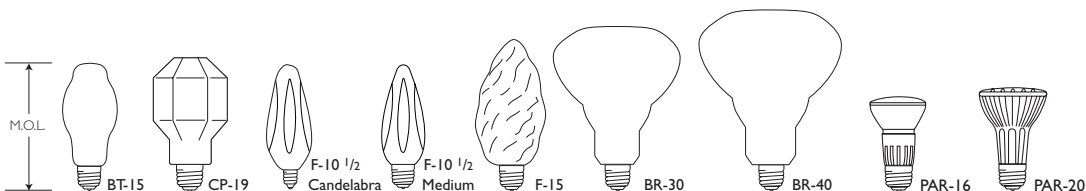
<b>Halogená® Decorative</b> Blister-Carded (96)													
25	CP-19	Med.	36472-9	□(96)	BC25CP19/HAL/CL	120	6	Clear, Blister Card	C, CC-8	4 1/8	3000	—	300
	F-10 1/2	Cand.	38903-1	(96)	BC25F10-1/2C/HAL/CL	120	4	Clear, Blister Card	C, CC-8	4 3/8	3000	—	300
	F-10 1/2	Med.	38906-4	(96)	BC25F10-1/2/HAL/CL	120	4	Clear, Blister Card	C, CC-8	4 3/8	3000	—	300
	F-15	Med.	38904-9	(96)	BC25F15/HAL/CL	120	4	Clear, Blister Card	C, CC-8	4 13/16	3000	—	300
40	CP-19	Med.	36485-1	□(96)	BC40CP19/HAL/CL	120	6	Clear, Blister Card	C, CC-8	4 1/8	3000	—	540
	F-10 1/2	Cand.	38901-5	(96)	BC40F10-1/2C/HAL/CL	120	4	Clear, Blister Card	C, CC-8	4 3/8	3000	—	540
	F-10 1/2	Med.	38895-9	(96)	BC40F10-1/2/HAL/CL	120	4	Clear, Blister Card	C, CC-8	4 3/8	3000	—	540
	F-15	Med.	38905-6	(96)	BC40F15/HAL/CL	120	4	Clear, Blister Card	C, CC-8	4 13/16	3000	—	540
60	CP-19	Med.	36411-7	□(96)	BC60CP19/HAL/CL	120	6	Clear, Blister Card	C, CC-8	4 1/8	3000	—	900
	F-10 1/2	Cand.	39029-4	(96)	BC60F10-1/2C/HAL/CL	120	4	Clear, Blister Card	C, CC-8	4 3/8	3000	—	900
	F-10 1/2	Med.	38898-3	(96)	BC60F10-1/2/HAL/CL	120	4	Clear, Blister Card	C, CC-8	4 3/8	3000	—	900
	F-15	Med.	38551-8	(96)	BC60F15/HAL/POSTTOP	120	4	Clear, Blister Card	C, CC-8	4 13/16	3000	—	900

<b>Halogená® Indoor Floodlight, Spotlight</b> (97)													
60	BR-30	Med.	38875-1	□(97)	60BR30/HAL/SP	120	6	Spot	C, CC-8	5 3/8	3000	2250	700
			38849-6	□(97)	60BR30/HAL/FL	120	6	Flood	C, CC-8	5 3/8	3000	500	700
	BR-40	Med.	39174-8	□(97)	60BR40/HAL/FL	120	6	Flood	C, CC-8	6 1/2	3000	325	750

<b>Halogená® PAR-16 Lamps</b> (82, 86)													
45	PAR-16	Med.	26580-1	\$(82, 86)	BC45PAR16/HAL/NFL27	120	6	Blister Card, N. Flood 27°	C, CC-8	3 1/5	3000	—	—
			13412-2	\$(82, 86)	BC45PAR16/HAL/FL/LL	120	6	Blister Card, Flood	C, CC-8	3 1/5	3000	1275	420
60	PAR-16	Med.	21390-0	\$(82, 86)	BC60PAR16/HAL/NFL27	120	6	Blister Card, N. Flood 27°	C, CC-8	3 1/5	3000	—	—
			13413-0	\$(82, 86)	BC60PAR16/HAL/FL/LL	120	6	Blister Card, Flood	C, CC-8	3 1/5	3000	1900	580

<b>Halogená® PAR-20 Lamps</b> (82, 86)													
50	PAR-20	Med.	24954-0	\$(82, 86)	50PAR20/HAL/SP16	120	6	Spot 16°	C, CC-8	3 3/8	2000	—	—
			13411-4	\$(82, 86)	50PAR20/HAL/SP/LL	120	6	Spot	C, CC-8	3 3/8	3000	4000	520
			38916-3	\$(82, 86)	50PAR20/HAL/NFL30	120	6	N. Flood 30°	C, CC-8	3 3/8	2000	—	—
			13410-6	\$(82, 86)	50PAR20/HAL/FL/LL	120	6	Flood	C, CC-8	3 3/8	3000	900	520

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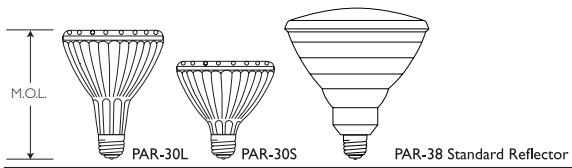
Watts	Bulb	Base	Product Number	Symbols, Footnotes	Ordering Code	Volts	Pkg. Qty. •	Description	Class, Filament	MOL (In.)	Rated Avg. Life (93)	Approx. MBCP *	Lumens
<b>Halogená® PAR-30 Long Lamps (82, 86)</b>													
50	PAR-30L	Med.	38918-9	\$ + (82, 86) (E)	50PAR30L/HAL/FL40	120	6	Flood 40°	C, CC-8	4 1/2	2000	—	—
			13407-2	\$ (82, 86) (E)	50PAR30L/HAL/FL/LL	120	6	Flood	C, CC-8	4 1/2	3000	2100	590
75	PAR-30L	Med.	38921-3	\$ + (82, 86) (E)	75PAR30L/HAL/SP16	120	6	Spot 16°	C, CC-8	4 1/2	2000	—	—
			13409-8	\$ (82, 86) (E)	75PAR30L/HAL/SP/LL	120	6	Spot	C, CC-8	4 1/2	3000	12300	1000
			38919-7	\$ + (82, 86) (E)	75PAR30L/HAL/FL40	120	6	Flood 40°	C, CC-8	4 1/2	2500	—	—
			13408-0	\$ (82, 86) (E)	75PAR30L/HAL/FL/LL	130	6	Flood	C, CC-8	4 1/2	3000	3300	1000

<b>Halogená® PAR-30 Short Lamps (82, 86)</b>													
60	PAR-30S	Med.	38922-1	\$ + (82, 86) (E)	60PAR30S/HAL/FL40	120	6	Flood 40°	C, CC-8	3 5/8	3000	—	—
			13406-4	\$ (82, 86) (E)	60PAR30S/HAL/FL/LL	120	6	Flood	C, CC-8	3 5/8	3000	2550	800

<b>Halogená® PAR-38 Lamps (82, 86)</b>													
45	PAR-38	Med.	38926-2	\$ + (82, 86) (E)	45PAR38/HAL/SP12/LL	120	6	Spot 12°	C, CC-8	5 5/16	3000	—	—
		Standard Skt.	13404-9	\$ (82, 86) (E)	45PAR38/HAL/SP/LL	120	6	Spot	C, CC-8	5 5/16	3000	6200	530
		Reflector	38923-9	\$ + (82, 86) (E)	45PAR38/HAL/FL28/LL	120	6	Flood 28°	C, CC-8	5 5/16	3000	—	—
			13401-5	\$ (82, 86) (E)	45PAR38/HAL/FL/LL	120	6	Flood	C, CC-8	5 5/16	3000	2000	530
90	PAR-38	Med.	38927-0	\$ + (82, 86) (E)	90PAR38/HAL/SP12/LL	120	6	Spot 12°	C, CC-8	5 5/16	2500	—	—
		Standard Skt.	13405-6	\$ (82, 86) (E)	90PAR38/HAL/SP/LL	120	6	Spot	C, CC-8	5 5/16	3000	14,500	1350
		Reflector	24953-2	\$ + (82, 86) (E)	90PAR38/HAL/FL28/LL	120	6	Flood 28°	C, CC-8	5 5/16	2500	—	—
			13402-3	\$ (82, 86) (E)	90PAR38/HAL/FL/LL	120	6	Flood	C, CC-8	5 5/16	3000	4500	1350

<b>Halogen PAR-38 Lamps (82, 86)</b>													
45	PAR-38	Med.	14060-8	\$ (82, 86) (E)	45PAR38/HAL/SP	120	6	Spot	C, CC-8	5 5/16	2000	6200	560
		Skt.	26883-9	\$ (82, 86) (E)	45PAR38/HAL/FL	120	6	Flood	C, CC-8	5 5/16	2000	2000	560
90	PAR-38	Med.	14023-6	\$ (82, 86) (E)	90PAR38/HAL/SP	120	6	Spot	C, CC-8	5 5/16	2000	14,500	1370
		Skt.	26877-1	\$ (82, 86) (E)	90PAR38/HAL/FL	120	6	Flood	C, CC-8	5 5/16	2000	4500	1370

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# HALOGEN LAMPS

## PAR-16, PAR-20, PAR-30L Lamps

HALOGEN

Watts	Bulb	Base	Product Number	Symbols, Footnotes	Ordering Code	Volts	Pkg. Qty. *	Description	Class, Filament	MOL (In.)	Rated Avg. Life (93)	Approx. MBCP *	Lumens
<b>Halogen PAR-16 Lamps</b> (Formerly MasterLine) (82, 86)													
45	PAR-16	Med.	26335-0	\$ (82, 86)	45PAR16/HAL/SP10	120	15	Spot 10°	C, CC-8	3 1/2	3000	3850	420
			26345-9	\$ (82, 86)	45PAR16/HAL/FL27	120	15	Flood 27°	C, CC-8	3 1/2	3000	1275	420
60	PAR-16	Med.	33004-3	\$ (82, 86)	60PAR16/HAL/SP10	120	15	Spot 10°	C, CC-8	3 1/2	3000	5075	580
			33006-8	\$ (82, 86)	60PAR16/HAL/FL27	120	15	Flood 27°	C, CC-8	3 1/2	3000	1900	580

### Halogen PAR-16 Lamps 130V (Formerly MasterLine) (82, 86)

45	PAR-16	Med.	26338-4	\$ (82, 86)	45PAR16/HAL/SP10	130	15	Spot 10° Ratings @ 120V = 40W	C, CC-8	3 1/2	2500 5000	3850 —	450 340
			26348-3	\$ (82, 86)	45PAR16/HAL/FL27	130	15	Flood 27° Ratings @ 120V = 40W	C, CC-8	3 1/2	2500 5000	1275 —	450 340
60	PAR-16	Med.	33005-0	\$ (82, 86)	60PAR16/HAL/SP10	130	15	Spot 10° Ratings @ 120V = 53W	C, CC-8	3 1/2	3000 6000	5075 —	580 450
			33007-6	\$ (82, 86)	60PAR16/HAL/FL27	130	15	Flood 27° Ratings @ 120V = 53W	C, CC-8	3 1/2	3000 6000	1900 —	580 450

### Halogen PAR-20 Lamps (Formerly MasterLine) WISO Reflector (82, 86)

50	PAR-20	Med.	22906-2	\$ (82, 86)	50PAR20/HAL/SP10	120	15	Spot 10°	C, CC-8	3 3/8	3000	4000	520
			22911-2	\$ (82, 86)	50PAR20/HAL/FL25	120	15	Flood 25°	C, CC-8	3 3/8	3000	900	520

### Halogen PAR-20 Lamps 130V (Formerly MasterLine) WISO Reflector (82, 86)

50	PAR-20	Med.	13846-1	\$ (82, 86)	50PAR20/HAL/SP10	130	15	Spot 10° Ratings @ 120V = 44W	C, CC-8	3 3/8	2000 4000	4150 —	550 420
			22921-1	\$ (82, 86)	50PAR20/HAL/FL25	130	15	Flood 25° Ratings @ 120V = 44W	C, CC-8	3 3/8	2000 4000	1100 —	550 420

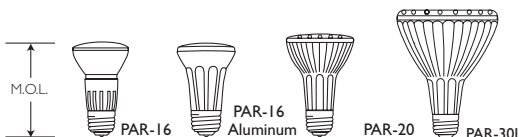
### Halogen PAR-30L Long Neck (Formerly MasterLine) WISO Reflector (82, 86)

50	PAR-30L	Med.	22922-9	\$ (82, 86) (E)	50PAR30L/HAL/SP10	120	15	Spot 10°	C, CC-8	4 1/2	3000	5550	590
	DiOptic Reflector		22923-7	\$ (82, 86) (E)	50PAR30L/HAL/WSP16	120	15	Wide Spot 16°	C, CC-8	4 1/2	3000	3500	590
			22925-2	\$ (82, 86) (E)	50PAR30L/HAL/FL25	120	15	Flood 25°	C, CC-8	4 1/2	3000	2100	590
			22927-8	\$ (82, 86) (E)	50PAR30L/HAL/WFL40	120	15	Wide Flood 40°	C, CC-8	4 1/2	3000	950	590
75	PAR-30L	Med.	22930-2	\$ (82, 86) (E)	75PAR30L/HAL/SP10	120	15	Spot 10°	C, CC-8	4 1/2	3000	12,300	1000
	DiOptic Reflector		22934-4	\$ (82, 86) (E)	75PAR30L/HAL/WSP16	120	15	Wide Spot 16°	C, CC-8	4 1/2	3000	6700	1000
			22941-9	\$ (82, 86) (E)	75PAR30L/HAL/FL25	120	15	Flood 25°	C, CC-8	4 1/2	3000	3300	1000
			22944-3	\$ (82, 86) (E)	75PAR30L/HAL/WFL40	120	15	Wide Flood 40°	C, CC-8	4 1/2	3000	1650	1000

### Halogen PAR-30L Long Neck 130V (Formerly MasterLine) WISO Reflector (82, 86)

50	PAR-30L	Med.	13847-9	\$ (82, 86) (E)	50PAR30L/HAL/SP10	130	15	Spot 10° Ratings @ 120V = 44W	C, CC-8	4 1/2	2000 4000	6550 —	630 470
	DiOptic Reflector		22926-0	\$ (82, 86) (E)	50PAR30L/HAL/FL25	130	15	Flood 25° Ratings @ 120V = 44W	C, CC-8	4 1/2	2000 4000	2300 —	630 470
			22928-6	\$ (82, 86) (E)	50PAR30L/HAL/WFL40	130	15	Wide Flood 40° Ratings @ 120V = 44W	C, CC-8	4 1/2	2000 4000	1050 —	630 470
75	PAR-30L	Med.	13848-7	\$ (82, 86) (E)	75PAR30L/HAL/SP10	130	15	Spot 10° Ratings @ 120V = 66W	C, CC-8	4 1/2	2500 5000	13,000 —	1050 780
	DiOptic Reflector		22943-5	\$ (82, 86) (E)	75PAR30L/HAL/FL25	130	15	Flood 25° Ratings @ 120V = 66W	C, CC-8	4 1/2	2500 5000	3700 —	1050 780
			22945-0	\$ (82, 86) (E)	75PAR30L/HAL/WFL40	130	15	Wide Flood 40° Ratings @ 120V = 66W	C, CC-8	4 1/2	2500 5000	1800 —	1050 780

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Halogen symbols and footnotes located on page 50



# HALOGEN LAMPS

## PAR-30S Lamps

HALOGEN

Watts	Bulb	Base	Product Number	Symbols, Footnotes	Ordering Code	Volts	Pkg. Qty. *	Description	Class, Filament	MOL (In.)	Rated Avg. Life (93)	Approx. MBCP *	Lumens
<b>Halogen PAR-30 Short</b> (Formerly MasterLine) WISO Reflector (82, 86)													
50	PAR-30S	Med.	26349-1	\$ (82, 86) (E)	50PAR30S/HAL/SP10	120	15	Spot 10°	C, CC-8	3 5/8	3000	5800	610
	DiOptic		26358-2	\$ (82, 86) (E)	50PAR30S/HAL/FL25	120	15	Flood 25°	C, CC-8	3 5/8	3000	1800	610
	Reflector		26364-0	\$ (82, 86) (E)	50PAR30S/HAL/WFL40	120	15	Wide Flood 40°	C, CC-8	3 5/8	3000	900	610
60	PAR-30S	Med.	35751-7	\$ (82, 86) (E)	60PAR30S/HAL/SP10	120	15	Spot 10°	C, CC-8	3 5/8	3000	8500	800
	DiOptic		35753-3	\$ (82, 86) (E)	60PAR30S/HAL/FL25	120	15	Flood 25°	C, CC-8	3 5/8	3000	2550	800
	Reflector		35758-2	\$ (82, 86) (E)	60PAR30S/HAL/WFL40	120	15	Wide Flood 40°	C, CC-8	3 5/8	3000	1300	800
75	PAR-30S	Med.	28479-4	\$ (82, 86) (E)	75PAR30S/HAL/SP10	120	15	Spot 10°	C, CC-8	3 5/8	3000	9600	1050
	DiOptic		28488-5	\$ (82, 86) (E)	75PAR30S/HAL/FL25	120	15	Flood 25°	C, CC-8	3 5/8	3000	3100	1050
	Reflector		28491-9	\$ (82, 86) (E)	75PAR30S/HAL/WFL40	120	15	Wide Flood 40°	C, CC-8	3 5/8	3000	1600	1050

<b>Halogen PAR-30 Short 130V</b> (Formerly MasterLine) WISO Reflector (82, 86)													
50	PAR-30S	Med.	26357-4	\$ (82, 86) (E)	50PAR30S/HAL/SP10	130	15	Spot 10°	C, CC-8	3 5/8	2000	6000	630
	Reflector							Ratings@120V = 44W			4000	—	480
			26362-4	\$ (82, 86) (E)	50PAR30S/HAL/FL25	130	15	Flood 25°	C, CC-8	3 5/8	2000	2000	630
								Ratings@120V = 44W			4000	—	480
			26384-8	\$ (82, 86) (E)	50PAR30S/HAL/WFL40	130	15	Wide Flood 40°	C, CC-8	3 5/8	2000	1050	630
								Ratings@120V = 44W			4000	—	480
60	PAR-30S	Med.	35752-5	\$ (82, 86) (E)	60PAR30S/HAL/SP10	130	15	Spot 10°	C, CC-8	3 5/8	3000	8500	800
								Ratings@120V = 53W			6000	—	610
			35788-9	\$ (82, 86) (E)	60PAR30S/HAL/FL25	130	15	Flood 25°	C, CC-8	3 5/8	3000	2550	800
								Ratings@120V = 53W			6000	—	610
			35762-4	\$ (82, 86) (E)	60PAR30S/HAL/WFL40	130	15	Wide Flood 40°	C, CC-8	3 5/8	3000	1300	800
								Ratings@120V = 53W			6000	—	610
75	PAR-30S	Med.	13849-5	\$ (82, 86) (E)	75PAR30S/HAL/SP10	130	15	Spot 10°	C, CC-8	3 5/8	2500	11,700	1050
								Ratings@120V = 66W			5000	—	800
			13467-6	\$ (82, 86) (E)	75PAR30S/HAL/FL25	130	15	Flood 25°	C, CC-8	3 5/8	2500	3500	1050
								Ratings@120V = 66W			5000	—	800
			28492-7	\$ (82, 86) (E)	75PAR30S/HAL/WFL40	130	15	Wide Flood 40°	C, CC-8	3 5/8	2500	1700	1050
								Ratings@120V = 66W			5000	—	800

<b>Halogen Long Life IR PAR-30S Short</b> Featuring Halogen Infrared Technology and DiOptic™ Reflector (82, 86)													
45	PAR-30S	Med.	13850-3	\$ (82, 86) (E)	45PAR30S/IRC/HAL/SP10	120	15	Spot 10°	C, CC-8	3 5/8	6000	10,000	650
	DiOptic		13851-1	\$ (82, 86) (E)	45PAR30S/IRC/HAL/FL25	120	15	Flood 25°	C, CC-8	3 5/8	6000	2340	650
	Reflector		13852-9	\$ (82, 86) (E)	45PAR30S/IRC/HAL/WFL40	120	15	Wide Flood 40°	C, CC-8	3 5/8	6000	1050	650

<b>Halogen Energy Advantage IR PAR-30S Short</b> (Formerly MasterLine IRC) Featuring Halogen Infrared Technology and DiOptic™ Reflector (82, 86)													
50	PAR-30S	Med.	13052-6	\$+ (82, 86) (E)	50PAR30S/IRC/HAL/NSP	120	15	N. Spot	C, CC-8	3 5/8	3200	—	—
	DiOptic		13867-7	\$ (82, 86) (E)	50PAR30S/IRC/HAL/SP10	120	15	Spot 10°	C, CC-8	3 5/8	4200	11,000	840
	Reflector		13053-4	\$+ (82, 86) (E)	50PAR30S/IRC/HAL/NFL	120	15	N. Flood	C, CC-8	3 5/8	3200	—	—
			13868-5	\$ (82, 86) (E)	50PAR30S/IRC/HAL/FL25	120	15	Flood 25°	C, CC-8	3 5/8	4200	2800	840
			13054-2	\$+ (82, 86) (E)	50PAR30S/IRC/HAL/FL	120	15	Flood	C, CC-8	3 5/8	3200	—	—
			13869-3	\$ (82, 86) (E)	50PAR30S/IRC/HAL/WFL40	120	15	Wide Flood 40°	C, CC-8	3 5/8	4200	1400	840

<b>Halogen Energy Advantage IR PAR-30S Short 130V</b> (Formerly MasterLine IRC) Featuring Halogen Infrared Technology and DiOptic™ Reflector (82, 86)													
50	PAR-30S	Med.	13853-7	\$ (82, 86) (E)	50PAR30S/IRC/HAL/SP10	130	15	Spot 10°	C, CC-8	3 5/8	3000	11,000	840
								Ratings@120V = 44W			6000	—	650
			13854-5	\$ (82, 86) (E)	50PAR30S/IRC/HAL/FL25	130	15	Flood 25°	C, CC-8	3 5/8	3000	2800	840
								Ratings@120V = 44W			6000	—	650
			13855-2	\$ (82, 86) (E)	50PAR30S/IRC/HAL/WFL40	130	15	W. Flood 40°	C, CC-8	3 5/8	3000	1400	840
								Ratings@120V = 44W			6000	—	650

+ Orders will be shipped until inventory is depleted and no longer manufactured. This product will be replaced with the product listed directly below it and will be available by January, 2005.  
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 Halogen symbols and footnotes located on page 50



# HALOGEN LAMPS

## PAR-36, PAR-38 Lamps

HALOGEN

Watts	Bulb	Base	Product Number	Symbols, Footnotes	Ordering Code	Volts	Pkg. Qty.*	Description	Class, Filament	MOL (In.)	Rated Avg. Life (93)	Approx. MBCP*	Lumens
<b>Halogen PAR-36 Lamps</b>													
50	PAR-36	Mog. End Prong	<b>13082-3</b>	\$	<b>50PAR36Q/VNSP6</b>	12	12	PAR, Narrow Spot	C, C-6	2 3/4	4000	35,000	400

### Halogen PAR-38 Lamps (Formerly MasterLine) (82, 86)

45	PAR-38	Med. Standard	<b>22946-8</b>	\$ (82, 86) (E)	<b>45PAR38/HAL/SP10</b>	120	12	Spot 10°	C, CC-8	5 5/16	3000	6200	530
	Standard	Skt. Reflector	<b>22948-4</b>	\$ (82, 86) (E)	<b>45PAR38/HAL/FL25</b>	120	12	Flood 25°	C, CC-8	5 5/16	3000	2000	530
60	PAR-38	Med. DiOptic	<b>13318-1</b>	\$ (82, 86) (E)	<b>60PAR38/HAL/SP10</b>	120	12	Spot 10°	C, CC-8	5 5/16	3000	10,500	800
	DiOptic	Skt. Reflector	<b>13305-8</b>	\$ (82, 86) (E)	<b>60PAR38/HAL/FL25</b>	120	12	Flood 25°	C, CC-8	5 5/16	3000	3200	800
	Reflector		<b>13309-0</b>	\$ (82, 86) (E)	<b>60PAR38/HAL/WFL40</b>	120	12	W. Flood 40°	C, CC-8	5 5/16	3000	1300	800
75	PAR-38	Med. DiOptic	<b>13321-5</b>	\$ (82, 86) (E)	<b>75PAR38/HAL/SP10</b>	120	12	Spot 10°	C, CC-8	5 5/16	3000	14,000	1050
	DiOptic	Skt. Reflector	<b>13312-4</b>	\$ (82, 86) (E)	<b>75PAR38/HAL/FL25</b>	120	12	Flood 25°	C, CC-8	5 5/16	3000	3800	1050
90	PAR-38	Med. Standard	<b>23069-8</b>	\$ (82, 86) (E)	<b>90PAR38/HAL/SP10</b>	120	12	Spot 10°	C, CC-8	5 5/16	3000	14,500	1350
	Standard	Skt. Reflector	<b>23070-6</b>	\$ (82, 86) (E)	<b>90PAR38/HAL/FL25</b>	120	12	Flood 25°	C, CC-8	5 5/16	3000	4500	1350
	DiOptic		<b>13308-2</b>	\$ (82, 86) (E)	<b>90PAR38/HAL/WFL40</b>	120	12	W. Flood 40°	C, CC-8	5 5/16	3000	2200	1350

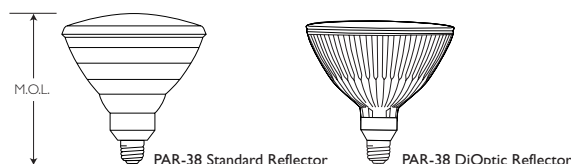
### Halogen PAR-38 Lamps 130V (Formerly MasterLine) (82, 86)

45	PAR-38	Med. Standard	<b>22947-6</b>	\$ (82, 86) (E)	<b>45PAR38/HAL/SP10</b>	130	12	Spot 10°	C, CC-8	5 5/16	2500	6200	530
	Standard	Skt. Reflector	<b>22949-2</b>	\$ (82, 86) (E)	<b>45PAR38/HAL/FL25</b>	130	12	Flood 25°	C, CC-8	5 5/16	2500	2000	530
60	PAR-38	Med. DiOptic	<b>13319-9</b>	\$ (82, 86) (E)	<b>60PAR38/HAL/SP10</b>	130	12	Spot 10°	C, CC-8	5 5/16	3000	10,500	800
	DiOptic	Skt. Reflector	<b>13307-4</b>	\$ (82, 86) (E)	<b>60PAR38/HAL/FL25</b>	130	12	Flood 25°	C, CC-8	5 5/16	3000	3200	800
	Reflector		<b>13320-7</b>	\$ (82, 86) (E)	<b>60PAR38/HAL/WFL40</b>	130	12	W. Flood 40°	C, CC-8	5 5/16	3000	1300	800
75	PAR-38	Med. DiOptic	<b>13450-2</b>	\$ (82, 86) (E)	<b>75PAR38/HAL/NSP8</b>	130	12	N. Spot 8°	C, CC-8	5 5/16	2500	16,750	1100
	DiOptic	Skt. Reflector	<b>13311-6</b>	\$ (82, 86) (E)	<b>75PAR38/HAL/SP10</b>	130	12	Spot 10°	C, CC-8	5 5/16	2500	14,000	1100
	Reflector		<b>13313-2</b>	\$ (82, 86) (E)	<b>75PAR38/HAL/FL25</b>	130	12	Flood 25°	C, CC-8	5 5/16	2500	4350	1100
90	PAR-38	Med. Standard	<b>23650-5</b>	\$ (82, 86) (E)	<b>90PAR38/HAL/SP10</b>	130	12	Spot 10°	C, CC-8	5 5/16	2500	14,500	1350
	Standard	Skt. Reflector	<b>23651-3</b>	\$ (82, 86) (E)	<b>90PAR38/HAL/FL25</b>	130	12	Flood 25°	C, CC-8	5 5/16	2500	4500	1350
	DiOptic	Med. Reflector	<b>13310-8</b>	\$ (82, 86) (E)	<b>90PAR38/HAL/WFL40</b>	130	12	W. Flood 40°	C, CC-8	5 5/16	2500	2200	1350

### Halogen Long Life IR PAR-38 Featuring Halogen Infrared Technology and DiOptic Reflector (82, 86)

45	PAR-38	Med. DiOptic	<b>13919-6</b>	\$ (82, 86) (E)	<b>45PAR38/IRC/HAL/SP10</b>	120	12	Spot 10°	C, CC-8	5 5/16	6000	9000	675
	DiOptic	Skt. Reflector	<b>13856-0</b>	\$ (82, 86) (E)	<b>45PAR38/IRC/HAL/FL25</b>	120	12	Flood 25°	C, CC-8	5 5/16	6000	3000	675
	Reflector		<b>13857-8</b>	\$ (82, 86) (E)	<b>45PAR38/IRC/HAL/WFL40</b>	120	12	W. Flood 40°	C, CC-8	5 5/16	6000	1140	675
55	PAR-38	Med. DiOptic	<b>13858-6</b>	\$ (82, 86) (E)	<b>55PAR38/IRC/HAL/SP10</b>	120	12	Spot 10°	C, CC-8	5 5/16	6000	10,700	880
	DiOptic	Skt. Reflector	<b>13859-4</b>	\$ (82, 86) (E)	<b>55PAR38/IRC/HAL/FL25</b>	120	12	Flood 25°	C, CC-8	5 5/16	6000	3730	880
	Reflector		<b>13860-2</b>	\$ (82, 86) (E)	<b>55PAR38/IRC/HAL/WFL40</b>	120	12	W. Flood 40°	C, CC-8	5 5/16	6000	1500	880
90	PAR-38	Med. DiOptic	<b>13864-4</b>	\$ (82, 86) (E)	<b>90PAR38/IRC/HAL/SP10</b>	120	12	Spot 10°	C, CC-8	5 5/16	6000	19,500	1650
	DiOptic	Skt. Reflector	<b>13865-1</b>	\$ (82, 86) (E)	<b>90PAR38/IRC/HAL/FL25</b>	120	12	Flood 25°	C, CC-8	5 5/16	6000	7200	1650
	Reflector		<b>13866-9</b>	\$ (82, 86) (E)	<b>90PAR38/IRC/HAL/WFL40</b>	120	12	W. Flood 40°	C, CC-8	5 5/16	6000	2500	1650

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Halogen symbols and footnotes located on page 50



# HALOGEN LAMPS

## PAR-38, PAR-56, PAR-64 Lamps

**HALOGEN**

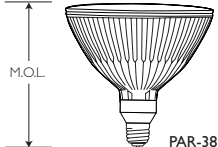
Watts	Bulb	Base	Product Number	Symbols, Footnotes	Ordering Code	Volts	Pkg. Qty.*	Description	Class, Filament	MOL (In.)	Rated Avg. Life (93)	Approx. MBCP*	Lumens
<b>Halogen Energy Advantage IR PAR-38</b> Featuring Halogen Infrared Technology and DiOptic Reflector (82, 86)													
50	PAR-38 DiOptic Reflector	Med. Skt.	13317-3	\$+ (82, 86) (E)	50PAR38/IRC/HAL/SP	120	15	Spot	C, CC-8	5 3/16	3200	—	—
			13870-1	\$ (82, 86) (E)	50PAR38/IRC/HAL/SP10	120	12	Spot 10°	C, CC-8	5 3/16	4200	11,000	860
			13301-7	\$+ (82, 86) (E)	50PAR38/IRC/HAL/FL	120	15	Flood	C, CC-8	5 3/16	3200	—	—
			13871-9	\$ (82, 86) (E)	50PAR38/IRC/HAL/FL25	120	12	Flood 25°	C, CC-8	5 3/16	4200	3750	860
			13302-5	\$+ (82, 86) (E)	50PAR38/IRC/HAL/WFL	120	12	W. Flood	C, CC-8	5 3/16	3200	—	—
			13872-7	\$ (82, 86) (E)	50PAR38/IRC/HAL/WFL40	120	12	W. Flood 40°	C, CC-8	5 3/16	4200	1400	860
60	PAR-38 DiOptic Reflector	Med. Skt.	13315-7	\$+ (82, 86) (E)	60PAR38/IRC/HAL/SP	120	12	W. Spot	C, CC-8	5 3/16	3200	—	—
			13873-5	\$ (82, 86) (E)	60PAR38/IRC/HAL/SP10	120	12	W. Spot 10°	C, CC-8	5 3/16	4200	15,500	1120
			13314-0	\$+ (82, 86) (E)	60PAR38/IRC/HAL/FL	120	12	Flood	C, CC-8	5 3/16	3200	—	—
			13874-3	\$ (82, 86) (E)	60PAR38/IRC/HAL/FL25	120	12	Flood 25°	C, CC-8	5 3/16	4200	5100	1120
			13324-9	\$+ (82, 86) (E)	60PAR38/IRC/HAL/WFL	120	12	W. Flood	C, CC-8	5 3/16	3200	—	—
			13875-0	\$ (82, 86) (E)	60PAR38/IRC/HAL/WFL40	120	12	W. Flood 40°	C, CC-8	5 3/16	4200	1800	1120
70	PAR-38 DiOptic Reflector	Med. Skt.	13861-0	\$ (82, 86) (E)	70PAR38/IRC/HAL/SP10	120	12	Spot 10°	C, CC-8	5 3/16	4200	17,800	1550
			13862-8	\$ (82, 86) (E)	70PAR38/IRC/HAL/FL25	120	12	Flood 25°	C, CC-8	5 3/16	4200	6170	1550
			13863-6	\$ (82, 86) (E)	70PAR38/IRC/HAL/WFL40	120	12	W. Flood 40°	C, CC-8	5 3/16	4200	2320	1550
100	PAR-38 DiOptic Reflector	Med. Skt.	35960-4	\$+ (82, 86) (E)	100PAR38/IRC/HAL/SP	120	12	Spot	C, CC-8	5 3/16	3200	—	—
			13876-8	\$ (82, 86) (E)	100PAR38/IRC/HAL/SP10	120	12	Spot 10°	C, CC-8	5 3/16	4200	26,400	2200
			13327-2	\$+ (82, 86) (E)	100PAR38/IRC/HAL/FL	120	12	Flood	C, CC-8	5 3/16	3200	—	—
			13877-6	\$ (82, 86) (E)	100PAR38/IRC/HAL/FL25	120	12	Flood 25°	C, CC-8	5 3/16	4200	8500	2200
			35968-7	\$+ (82, 86) (E)	100PAR38/IRC/HAL/WFL	120	12	W. Flood	C, CC-8	5 3/16	3200	—	—
			13878-4	\$ (82, 86) (E)	100PAR38/IRC/HAL/WFL40	120	12	W. Flood 40°	C, CC-8	5 3/16	4200	3500	2200

<b>Halogen Energy Advantage IR PAR-38 130V</b> Featuring Halogen Infrared Technology and DiOptic Reflector (82, 86)															
60	PAR-38 DiOptic Reflector	Med. Skt.	36055-2	\$+ (82, 86) (E)	60PAR38/IRC/HAL/SP	130	12	Spot	C, CC-8	5 3/16	3200	—	—		
			13920-4	\$ (82, 86) (E)	60PAR38/IRC/HAL/SP10	130	12	Spot 10°	C, CC-8	5 3/16	4200	15,500	1120		
			35957-0	\$+ (82, 86) (E)	60PAR38/IRC/HAL/FL	130	12	Flood	C, CC-8	5 3/16	3200	—	—		
			13879-2	\$ (82, 86) (E)	60PAR38/IRC/HAL/FL25	130	12	Flood 25°	C, CC-8	5 3/16	4200	5100	1120		
			35958-8	\$+ (82, 86) (E)	60PAR38/IRC/HAL/WFL	130	12	W. Flood	C, CC-8	5 3/16	3200	—	—		
			13918-8	\$ (82, 86) (E)	60PAR38/IRC/HAL/WFL40	130	12	W. Flood	C, CC-8	5 3/16	4200	1800	1120		

<b>Halogen PAR-38 Lamps, Medium Side Prong Base</b> (82, 86)													
60	PAR-38 Standard Reflector	Med. Side Prong	38887-6	(82, 86) (E)	60PAR38/HAL/3FL	120	12	Flood 25°	C, CC-8	4 1/16	3000	3000	770
			38884-3	(82, 86) (E)	60PAR38/HAL/2FL	130	12	Flood 25° Ratings @ 120V = 53W	C, CC-8	5 3/16	3000 6000	2500 —	770 700
90	PAR-38 Standard Reflector	Med. Side Prong	38890-0	\$ (82, 86) (E)	90PAR38/HAL/3FL	130	12	Flood 25° Ratings @ 120V = 79W	C, CC-8	4 1/16	2500 5000	4500 —	1350 1000
			38886-8	\$ (82, 86) (E)	90PAR38/HAL/2FL	130	12	Flood 25° Ratings @ 120V = 79W	C, CC-8	5 3/16	2500 5000	4500 —	1350 1000

<b>Halogen PAR-56, PAR-64 Lamps</b> (9, 55)													
500	PAR-56	Mog. End Prong	35621-2	(9, 55)	500PAR56Q/MFL	120	8	PAR Med. Flood	C, CC-6	5	4000	47,000	—
			35620-4	(9, 55)	500PAR56Q/WFL	120	8	PAR Wide Flood	C, CC-6	5	4000	47,000	—
			35619-6	(9, 55)	500PAR56Q/NSP	120	8	PAR Narrow Spot	C, CC-8	5	4000	88,000	—
1000	PAR-64	Ext. Mog. End Prong	27556-0	(9, 55)	1000PAR64Q/MFL	120	8	PAR Med. Flood	C, CC-8	5	4000	80,000	—
			27558-6	(9, 55)	1000PAR64Q/WFL	120	8	PAR Wide Flood	C, CC-8	5	4000	31,000	—
			27555-2	(9, 55)	1000PAR64Q/NSP	120	8	PAR Narrow Spot	C, CC-8	5	4000	200,000	—

\* Orders will be shipped until inventory is depleted and no longer manufactured. This product will be replaced with the product listed directly below it and will be available by January, 2005.  
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 Halogen symbols and footnotes located on page 50



# HALOGEN LAMPS

## MRC-11, MR-16, MRC-16 Lamps

HALOGEN

Watts	Bulb	Base	Product Number	Symbols, Footnotes	Ordering Code	Volts	Pkg. Qty.*	Description	Class, Filament	MOL (In.)	Rated Avg. Life (93)	Approx. MBCP*	Lumens
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### Halogen MRC-11 (Formerly BrilliantLine Pro) (92)

20	MRC-11	GU4	<b>13345-4</b> (92)		<b>BC20MRC11/FL30</b>	12	12	Blister Card, Flood 30°	C, CC-8	1 7/8	4000	690	320
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### Halogen MRC-11 (Formerly BrilliantLine Pro) (92)

20	MRC-11	GU4	<b>37821-6</b> (92)		<b>20MRC11/SPI0 PRO FTB</b>	12	50	Spot 10°	C, CC-8	1 7/8	4000	4800	310
			<b>37822-4</b> (92)		<b>20MRC11/FL30 PRO FTD</b>	12	50	Flood 30°	C, CC-8	1 7/8	4000	690	320

### MRC-16 Halogen Display Lamps (Formerly AccentLine) Dichroic Reflector With Lens; Blister-Carded (92)

20	MRC-16	GU5.3	<b>39248-0</b> (92)		<b>BC20MRC16/FL36-BAB</b>	12	12	Blister Card, Flood 36°	C, C-8	1 7/8	3000	550	240
35	MRC-16	GU5.3	<b>39256-3</b> (92)		<b>BC35MRC16/FL36-FMX</b>	12	12	Blister Card, Flood 36°	C, C-8	1 7/8	3000	1000	540
50	MRC-16	GU5.3	<b>39262-1</b> (92)		<b>BC50MRC16/SPI0-EXT</b>	12	12	Blister Card, Spot 10°	C, C-8	1 7/8	3000	8800	790
			<b>39259-7</b> (92)		<b>BC50MRC16/FL36-EXN</b>	12	12	Blister Card, Flood 36°	C, C-8	1 7/8	3000	1600	850

### Halogen MR (Formerly AccentLine) (91)

20	MR-16	GU5.3	<b>37802-6</b> (91)		<b>20MR16/SPI0 ESX</b>	12	50	Spot 10°	C, C-8	1 7/8	3000	3400	240
			<b>37803-4</b> (91)		<b>20MR16/FL36 BAB</b>	12	50	Flood 36°	C, C-8	1 7/8	3000	550	240
35	MR-16	GU5.3	<b>14055-8</b> (91)		<b>35MR16/SPI0</b>	12	50	Spot 10°	C, C-8	1 7/8	3000	6000	510
			<b>14056-6</b> (91)		<b>35MR16/FL36</b>	12	50	Flood 36°	C, C-8	1 7/8	3000	1000	540
50	MR-16	GU5.3	<b>37804-2</b> (91)		<b>50MR16/SPI0 EXT</b>	12	50	Spot 10°	C, C-8	1 7/8	3000	8800	790
			<b>37807-5</b> (91)		<b>50MR16/NFL24 EXZ</b>	12	50	N. Flood 24°	C, C-8	1 7/8	3000	2500	800
			<b>37805-9</b> (91)		<b>50MR16/FL36 EXN</b>	12	50	Flood 36°	C, C-8	1 7/8	3000	1600	850

### Halogen MR Long Life (Formerly BrilliantLine Pro and Continuum Color) (91, 92)

20	MRC-16	GU5.3	<b>37814-1</b> (92)		<b>20MRC16/SPI0 ESX</b>	12	50	Spot 10°	C, C-8	1 7/8	6000	5000	310
			<b>26966-2</b> (92)		<b>20MRC16/NFL24 BBF</b>	12	50	N. Flood 24°	C, C-8	1 7/8	6000	1700	320
			<b>37815-8</b> (92)		<b>20MRC16/FL36 BAB</b>	12	50	Flood 36°	C, C-8	1 7/8	6000	780	320
35	MRC-16	GU5.3	<b>14054-1</b> (92)		<b>35MRC16/SPI0</b>	12	50	Spot 10°	C, C-8	1 7/8	6000	8000	680
			<b>14052-5</b> (92)		<b>35MRC16/NFL24</b>	12	50	N. Flood 24°	C, C-8	1 7/8	6000	3100	690
			<b>14053-3</b> (92)		<b>35MRC16/FL36</b>	12	50	Flood 36°	C, C-8	1 7/8	6000	1500	710
50	MRC-16	GU5.3	<b>37816-6</b> (92)		<b>50MRC16/SPI0 EXT</b>	12	50	Spot 10°	C, C-8	1 7/8	6000	13000	920
			<b>14061-6</b> (92)		<b>50MRC16/SPI5</b>	12	50	Spot 15°	C, C-8	1 7/8	6000	8000	930
			<b>37817-4</b> (92)		<b>50MRC16/NFL24 EXZ</b>	12	50	N. Flood 24°	C, C-8	1 7/8	6000	4400	960
			<b>37818-2</b> (92)		<b>50MRC16/FL36 EXN</b>	12	50	Flood 36°	C, C-8	1 7/8	6000	2200	970
75	MR-16	GU5.3	<b>37808-3</b> (91)		<b>75MR16/SPI0 EYF</b>	12	50	Spot 10°	C, C-8	1 7/8	6000	14000	1320
			<b>37809-1</b> (91)		<b>75MR16/FL36 EYC</b>	12	50	Flood 36°	C, C-8	1 7/8	6000	2500	1410

### Halogen MR Energy Advantage IR (Formerly MasterLine ES IRC) (92)

20	MRC-16	GU5.3	<b>13451-0</b> (92)		<b>20MRC16/IRC/SP8</b>	12	20	Spot 8°	C, C-8	1 7/8	5000	6500	370
			<b>13452-8</b> (92)		<b>20MRC16/IRC/FL36</b>	12	20	Flood 36°	C, C-8	1 7/8	5000	1000	400
30	MRC-16	GU5.3	<b>14057-4</b> (92)		<b>30MRC16/IRC/SP8</b>	12	20	Spot 8°	C, C-8	1 7/8	5000	11000	640
			<b>14058-2</b> (92)		<b>30MRC16/IRC/NFL24</b>	12	20	N. Flood 24°	C, C-8	1 7/8	5000	3350	660
			<b>14063-2</b> (92)		<b>30MRC16/IRC/FL36</b>	12	20	Flood 36°	C, C-8	1 7/8	5000	1600	680
35	MRC-16	GU5.3	<b>13453-6</b> (92)		<b>35MRC16/IRC/SP8</b>	12	20	Spot 8°	C, C-8	1 7/8	5000	14000	780
			<b>13454-4</b> (92)		<b>35MRC16/IRC/NFL24</b>	12	20	N. Flood 24°	C, C-8	1 7/8	5000	4400	800
			<b>13455-1</b> (92)		<b>35MRC16/IRC/FL36</b>	12	20	Flood 36°	C, C-8	1 7/8	5000	2200	830
			<b>13456-9</b> (92)		<b>35MRC16/IRC/WFL60</b>	12	20	W. Flood 60°	C, C-8	1 7/8	5000	1050	870
45	MRC-16	GU5.3	<b>13457-7</b> (92)		<b>45MRC16/IRC/SP8</b>	12	20	Spot 8°	C, C-8	1 7/8	5000	16000	1020
			<b>13458-5</b> (92)		<b>45MRC16/IRC/NFL24</b>	12	20	N. Flood 24°	C, C-8	1 7/8	5000	5450	1080
			<b>13459-3</b> (92)		<b>45MRC16/IRC/FL36</b>	12	20	Flood 36°	C, C-8	1 7/8	5000	2850	1100
			<b>13460-1</b> (92)		<b>45MRC16/IRC/WFL60</b>	12	20	W. Flood 60°	C, C-8	1 7/8	5000	1300	1180

### Halogen MR Aluminum (Formerly Continuum Pro) (92)

50	MRC-16	GU5.3	<b>13981-6</b> (92)		<b>50 MRC16/NFL24/A</b>	12	50	N. Flood 24°			5000	3300	940
			<b>13982-4</b> (92)		<b>50 MRC16/FL36/A</b>	12	50	Flood 36°			5000	2100	950

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Halogen symbols and footnotes located on page 50



# HALOGEN LAMPS

## ALR, ALUline Pro 111, Twistline GUI0

Watts	Bulb	Base	Product Number	Symbols, Footnotes	Ordering Code	Volts	Pkg. Qty.*	Description	Class, Filament	MOL (In.)	Rated Avg. Life (93)	Approx. MBCP*	Lumens
<b>Closed Aluminum Reflector (ALR) Lamps</b> Aluminum Reflector With Lens (92)													
20	37mm	BA15d	32840-1	□ (92)	20ALR12/NSP6-GBD Clear	12	50	Clear, N. Spot 6°	C, C-8	1 1/2	2000	7000	—
			34002-6	□ (92)	20ALR12/SPI8-GBE Frost	12	50	Frost, Spot 18°	C, C-8	1 1/2	2000	1500	—
			34003-4	□ (92)	20ALR12/FL32-GBF Frost	12	50	Frost, Flood 32°	C, C-8	1 1/2	2000	750	250
50	56mm	B15d	32826-0	□ (92)	50ALR18/SPI0-GBJ Clear	12	50	Clear, Spot 10°	C, C-8	2 1/4	2000	13,000	—
			34091-9	□ (92)	50ALR18/NFL25-GBK Frost	12	50	Frost, N. Flood 25°	C, C-8	2 1/4	2000	2500	820

### ALUline PRO 111

50	ALU Pro 111	G53	13396-6		ALU111MM 50W G53 12V 8D	12	6	Spot 8°	C, C-8	2 3/4	3000	23,000	950
			13397-4		ALU111MM 50W G53 12V 24D	12	6	Flood 24°	C, C-8	2 3/4	3000	4000	950
75	ALU Pro 111	G53	13398-2		ALU111MM 75W G53 12V 8D	12	6	Spot 8°	C, C-8	2 3/4	3000	30,000	1575
			13399-0		ALU111MM 75W G53 12V 24D	12	6	Flood 24°	C, C-8	2 3/4	3000	5300	1575
			13400-7		ALU111MM 75W G53 12V 45D	12	6	Wide Flood 45°	C, C-8	2 3/4	3000	1900	1575

### Twistline GUI0 (98)

25	Twistline	GUI0	13587-1	(98)	BC25TWISTLINE GUI0/FL25	120	6	Blister Card, Flood 25°	C, C-6	2	2000	345	160
35	Twistline	GUI0	13347-0	(98)	BC35TWISTLINE GUI0/FL25	120	6	Blister Card, Flood 25°	C, C-6	2	3000	480	265
50	Twistline	GUI0	13081-5	(98)	BC50TWISTLINE GUI0/NFL25	120	6	Blister Card, N. Flood 25°	C, C-6	2	3000	700	430

For the most current product information, go to [www.nam.lighting.philips.com/us/ecatalog/](http://www.nam.lighting.philips.com/us/ecatalog/)  
Halogen symbols and footnotes located on page 50



# HALOGEN LAMPS

Single-Ended, Double-Ended, Capsule Lamps

HALOGEN

Watts	Bulb	Base	Product Number	Symbols, Footnotes	Ordering Code	Volts	Pkg. Qty.*	Description	Class, Filament	MOL (In.)	Rated Avg. Life (93)	Approx. MBCP*	Lumens
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### Halogen Single-Ended Linear Lamps (95)

50	T-4	Mini-Can	<b>13803-2</b> (95)		<b>BC50Q/CL</b>	120	12	Blister Card	C, CC-8	2 3/4	1000	—	500
75	T-4	Mini-Can	<b>39249-8</b> (95)		<b>BC75Q/CL</b>	120	12	Blister Card	C, CC-8	3	1000	—	1050
100	T-4	Mini-Can	<b>21365-2</b> (95)		<b>BC100Q/CL/MC ESN</b>	120	12	Blister Card	C, CC-8	2 13/16	1000	—	1600
150	T-4	Mini-Can	<b>34754-2</b> (95)		<b>BC150Q/CL ETG</b>	120	12	Blister Card	C, CC-8	3	1000	—	2800

### Halogen Single-Ended Linear Lamps (95)

100	T-4	D.C. Bay	<b>44278-0</b> (95)		<b>100Q/CL/DC ESR</b>	120	12	Clear	C, CC-8	2 7/16	1000	—	1600
150	T-4	Mini-Can	<b>29856-2</b> (95)		<b>150Q ETH</b>	120	12	Frost	C, CC-8	3	1000	—	2700
		D.C. Bay	<b>20049-3</b> (95)		<b>150Q/CL</b>	130	12	Clear	C, CC-8	3	1000	—	2800
			<b>26676-7</b> (95)		<b>150Q/CL/DC ETC</b>	120	12	Clear	C, CC-8	2 1/2	1000	—	2800
			<b>29850-5</b> (95)		<b>150Q/DC ETF</b>	120	12	Frost	C, CC-8	2 1/2	1000	—	2700
250	T-4	Mini-Can	<b>37857-0</b> (95)		<b>250Q/CL EHT</b>	120	12	Clear	C, CC-8	3 5/8	2000	—	5000
			<b>22886-6</b> (95)		<b>250Q/CL</b>	130	12	Clear	C, CC-8	3 5/8	2000	—	5000
		D.C. Bay	<b>31584-6</b> (95)		<b>250Q/CL/DC ESS</b>	120	12	Clear	C, CC-8	3	2000	—	5000
			<b>22894-0</b> (95)		<b>250Q/CL/DC</b>	130	12	Clear	C, CC-8	3	2000	—	5000
500	T-4	Mini-Can	<b>38079-0</b> (95)		<b>500Q/CL EVR</b>	120	12	Clear	C, C-8	3 5/8	2000	—	10,000
750	T-5	Med.2-Pin	<b>26972-0</b> (95)		<b>750Q/CL EHG</b>	120	24	Clear	C, CC-8	4 1/4	2000	—	15,000

### Halogen Double-Ended Linear Lamp (99)

100	T-3	RSC	<b>21750-5</b> (99)		<b>BC100T3Q/CL</b>	120	12	Blister Card	C, C-8	3 1/8	2000	—	1600
150	T-3	RSC	<b>21751-3</b> (99)		<b>BC150T3Q/CL</b>	120	12	Blister Card	C, C-8	3 1/8	2000	—	2400
			<b>13444-5</b> (99)		<b>BC150T3Q/CL LONG</b>	120	12	Blister Card	C, C-8	4 11/16	1500	—	2250
250	T-3	RSC	<b>39250-6</b> (99)		<b>BC250T3Q/CL</b>	120	12	Blister Card	C, C-8	3 1/8	2000	—	4000
300	T-3	RSC	<b>39246-4</b> (99)		<b>BC300T3Q/CL</b>	120	12	Blister Card	C, C-8	4 11/16	2000	—	5200
500	T-3	RSC	<b>39247-2</b> (99)		<b>BC500T3Q/CL</b>	120	12	Blister Card	C, C-8	4 11/16	2000	—	9500

### Halogen Double-Ended Linear Lamp (99)

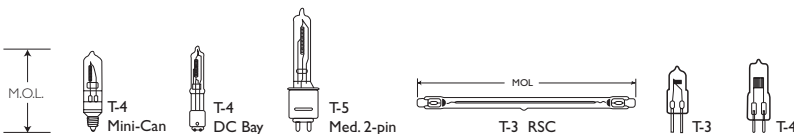
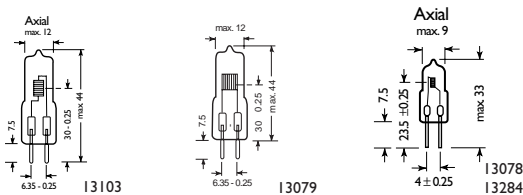
300	T-3	RSC	<b>39282-9</b> (99)		<b>300T3Q/P/CL EHM</b>	120	12	Clear	C, C-8	4 11/16	2000	—	5200
500	T-3	RSC	<b>13223-3</b> (99)		<b>500T3Q/P/CL</b>	125-130	12	Clear; Plusline	C, C-8	4 11/16	2000	—	9200
			<b>20010-5</b> (99)		<b>500T3Q/P/CL FCL</b>	120	12	Clear	C, C-8	4 11/16	2000	—	9500
1000	T-3	RSC	<b>38320-8</b> (99)		<b>1000T3Q/P/CL</b>	240	12	Clear; Plusline	C, C-8	10 1/16	3000	—	21,000
1500	T-3	RSC	<b>23868-3</b> (99)		<b>1500T3Q/P/CL</b>	277	12	Clear; Plusline	C, C-8	10 1/16	3000	—	33,000
			<b>13226-6</b> (99)		<b>1500T3Q/P/CL</b>	240	12	Clear; Plusline	C, C-8	10 1/16	2000	—	32,250

### Halogen Low-Voltage Capsule Lamp (95)

10	T-3	G4	<b>39251-4</b> (95)		<b>BC10W/T3/12V</b>	12	12	Blister Card	C, C-8	1 1/4	2000	—	120
20	T-3	G4	<b>13015-3</b> (95)		<b>BC20W/T3/12V</b>	12	12	Blister Card	C, C-8	1 1/4	2000	—	300
35	T-4	GY6.35	<b>13346-2</b> (95)		<b>BC35W/T4/12V</b>	12	12	Blister Card	C, C-8	1 3/4	2000	—	600
50	T-4	GY6.35	<b>13016-1</b> (95)		<b>BC50W/T4/12V</b>	12	12	Blister Card	C, C-8	1 3/4	2000	—	800
75	T-4	GY6.35	<b>13441-1</b> (95)		<b>BC75W/T4/12V</b>	12	12	Blister Card	C, C-8	1 3/4	2000	—	1575

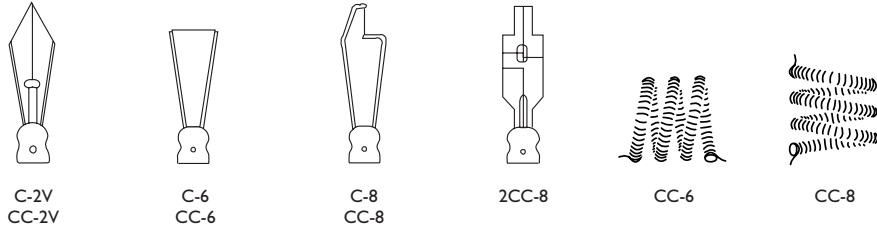
### Halogen Low-Voltage Capsule Lamp All Lamps Contain UV Block and are Low Pressure (95)

10	T-3	G4	<b>23262-9</b> (95)		<b>10W/T3/12V</b>	12	100	Capsule Type 13284	C, C-8	1 1/4	4000	—	140
20	T-3	G4	<b>23264-5</b> (95)		<b>20W/T3/12V</b>	12	100	Capsule Type 13078	C, C-8	1 1/4	4000	—	320
35	T-4	GY6.35	<b>29553-5</b> (95)		<b>35W/T4/12V</b>	12	100	Capsule Type 13103	C, C-8	1 3/4	4000	—	600
50	T-4	GY6.35	<b>23265-2</b> (95)		<b>50W/T4/12V</b>	12	100	Capsule Type 13079	C, C-8	1 3/4	4000	—	800

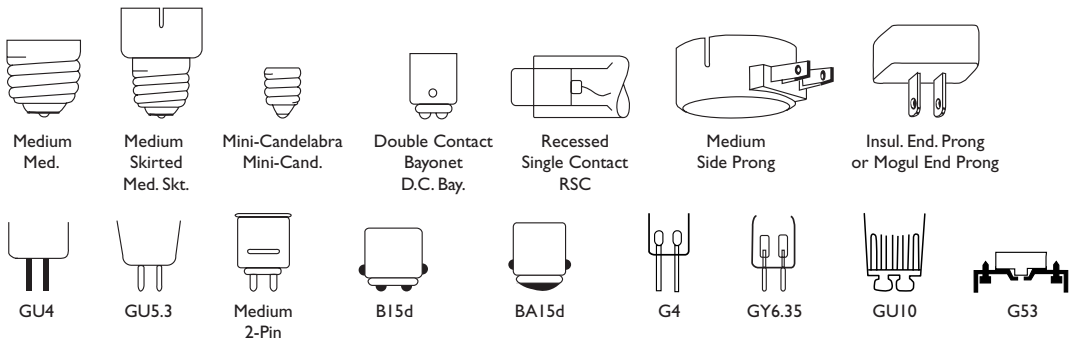


## Filament Designations (Not Actual Sizes)

Filament Designations consist of a letter or letters to indicate how the wire is coiled and an arbitrary number sometimes followed by a letter to indicate the arrangement of the filament on the supports. Prefix letters include C (coil) — wire is wound into a helical coil or it may be deeply fluted; CC (coiled coil) — wire is wound into a helical coil and this coiled wire again wound into a helical coil. Some of the more commonly used types of filament arrangements are illustrated.

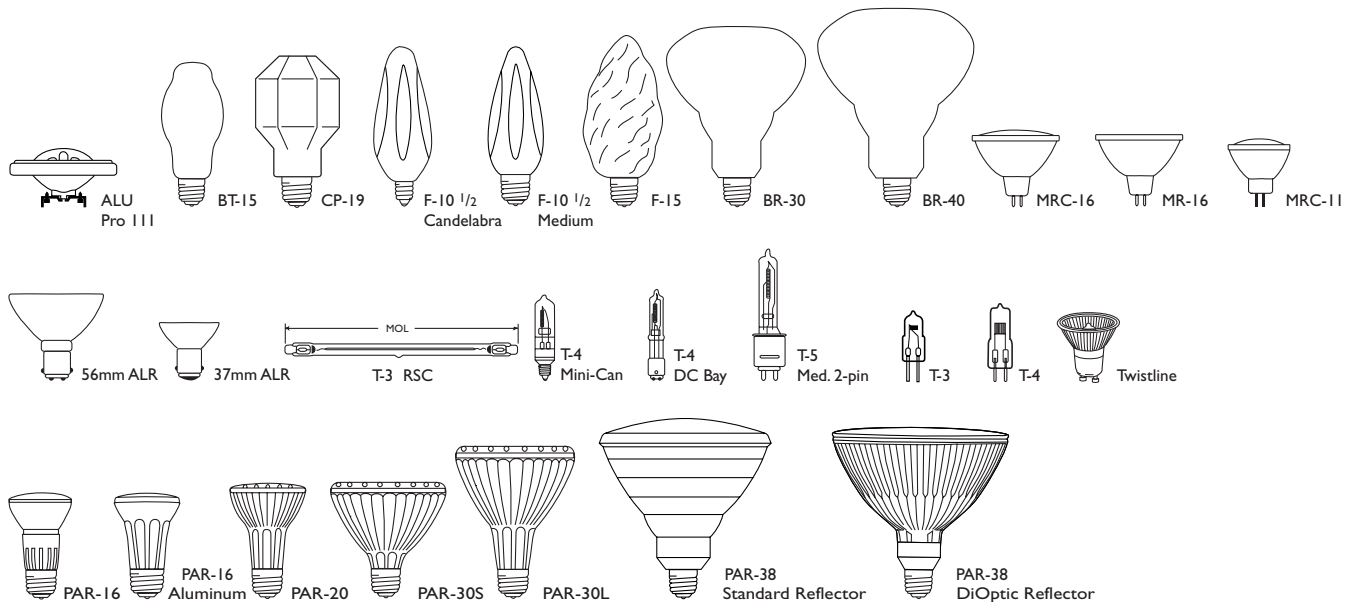


## Base Types (Not Actual Sizes)



## Bulb Shapes (Not Actual Sizes)

The size and shape of a bulb is designated by a letter or letters followed by a number. The letter indicates the shape of the bulb while the number indicates the diameter of the bulb in eighths of an inch. For example, "T-10" indicates a tubular shaped bulb having a diameter of 10/8 or 1 1/4 inches. The following illustrations show some of the more popular bulb shapes and sizes.



# INCANDESCENT AND HALOGEN LAMPS

## Footnotes

- Exclusive to Philips Lighting Company
  - Quantity shown is minimum shipping container — refer to Net Price Schedule for number of lamps to qualify as a standard case.
  - \* Two Lamp Carded Pack.
  - ▲ Aluminum base.
  - Nickel plated brass base.
  - ★ Heat resisting glass bulb.
  - Consider the compact fluorescent lamps listed on pages 53–54 for energy savings
  - 💰 Energy Saving Product
  - Maximum Beam Candlepower
  - ✗ Orders will be shipped until inventory is depleted; no longer manufactured
  - Ⓔ This Bulb Meets US Federal Minimum Efficiency Standard
- (2) Although the lamp is of the highest quality in material and workmanship, it has been designed to meet certain purchase requirements which preclude a guarantee of performance.
- (3) Indefinite-long life.
- (4) Average laboratory life is 200 hours for vacuum cleaner and 600 hours for sewing machine service. Design life 1000 hours.
- (8) Operate base down.
- (9) This lamp should be shielded from moisture to prevent breakage.
- (10) Operating position—horizontal.
- (11) Design volts 115.
- (12) Operate base down to horizontal.
- (13) Not recommended for horizontal burning.
- (14) Operate base up.
- (15) Operate base down. Filaments operated separately.
- (18) Base is medium left hand thread.
- (19) May not give satisfactory performance if any accessory equipment is attached to or touches the glass bulb.
- (22) Unsatisfactory lamp operation is likely to occur in operating positions between horizontal and base up, particularly between 45° from base up and base up.
- (23) May be operated in any position.
- (25) Base pins approximately parallel to plane of filament.
- (26) Use only on circuits supplying the voltage as marked on the lamp. DO NOT use in household sockets.
- (27) Average laboratory life in excess of 5000 hours. In-service life depends upon service conditions.
- (29) Suitable for indoor and outdoor service.
- (31) Operate only in porcelain sockets.
- (34) Operate base up to horizontal.
- (37) Should not be used in equipment where the base temperature will exceed 500°F.
- (41) Avoid use at short distances on materials that are inflammable or susceptible to heat damage.
- (43) Unless otherwise noted, may be operated in any position, but lumen maintenance is best when operated vertically base up.
- (46) Stippled, rounded cover.
- (49) Should not be used in equipment where the seal temperature exceeds 750°F.
- (50) For use on 50-60 cycle A.C. circuits.
- (51) Light output is maintained best when operated within 45° of vertically base up.
- (53) The bulb, though made of heat-resistant glass, may break if moisture falls on it. Not recommended for use in enclosed, close-fitting housings.
- (55) For use only with heat resistant connector and with lamp supported by bulb rim.
- (59) Life dependent upon service conditions.
- (63) Design volts 145.
- (64) For use only in equipment specially designed to maintain bulb and base temperature within safe limits.
- (65) AA tolerance 1/2", L.C.L. tolerance 3/4".
- (66) Silicone Coating reduces lumen output from Standard Values less than 3%.
- (72) Light Center Length & Axial Alignment tolerance 1/4".
- (75) 2 3/4" diameter unsilvered spot on end of bulb.
- (81) LCL & Axial Alignment tolerance 1/2".
- (82) To avoid deterioration of lampholder by heat, use only heat resistant lampholders or fixtures listed by a nationally recognized electrical testing organization for use with reflector or PAR lamps.

- (83) Base does not have ceramic insulator.
- (86) **PAR Halogen Caution Notice:** Before using bulb, see operating instructions on inside flap. Adherence to the operating instructions will reduce the risk of personal injury or fire. The filament capsule contained inside this glass bulb is pressurized, operates at high temperature and could unexpectedly shatter. Should the outer bulb break, particles of extremely hot glass could be discharged into the fixture and/or the surrounding environment, thereby creating a risk of personal injury or fire.
- Operating Instructions:** Before replacing, turn off power and let lamp cool to avoid electrical shock or burn.
- For indoor or outdoor use. A weather-protected fixture is recommended for wet locations.
  - Suitable for use in open fixtures.
  - Do not exceed the maximum wattage rating of the fixture.
  - Do not use if outer glass is scratched or broken since it may break during operation or removal.
  - If outer glass breaks the lamp may continue to light, however, immediately discontinue use.
  - Due to the heat that radiates from the bulb, do not use in close proximity to combustible materials or objects susceptible to drying or fading.
  - Manage in accord with disposal laws.
- (87) Do not allow hot bulb to come in contact with liquid or metal parts of the fixture, as glass may shatter. Do not use outdoors. Do not operate in close proximity to flammable materials or those adversely affected by heat or drying. Operate only in heat resistant sockets.
- (89) **CAUTION:** Do not operate in close proximity to flammable materials or those adversely affected by heat or drying. Operate only in heat resistant sockets.
- WARNING:** Use carefully. May cause serious burns. Do not use over insensitive skin areas or in the presence of poor circulation. The unattended use of infrared heat by children or incapacitated persons may be dangerous.
- Lamp should not be placed closer than 18" to the surface being irradiated.
  - Do not use for therapeutic or topical applications unless recommended by a physician.
  - For food warming, use only lamps with heat resisting glass.
- (90) Since there is considerable heat radiation in the beam of this lamp, care should be taken against using it without suitable protection, in close proximity to combustible materials or those adversely affected by drying action.
- (91) **NOTICE:** Do not touch capsule with bare hands. Fingerprints may result in reduced performance unless they are removed with alcohol. **CAUTION: THIS LAMP IS PRESSURIZED AND COULD SHATTER** so to avoid injury and to avoid exposure to ultraviolet radiation, use only in equipment specifying this lamp and that provides a protective shield of tempered glass. Provide adequate ventilation to ensure that seal temperature does not exceed 350° C. To avoid risks of burns or other injury, turn power off and allow lamp to fully cool before attempting to replace. Socket condition may affect lamp life. Inspect and replace socket if deterioration has occurred.
- (92) **CAUTION: THIS LAMP IS PRESSURIZED AND COULD SHATTER** so to avoid injury and to avoid exposure to ultraviolet radiation, this lamp should be used in a fixture that provides a protective shield of tempered glass. Provide adequate ventilation to ensure that seal temperature does not exceed 350° C and use only in fixtures rated for the wattage stated on this package. To avoid risks of burns or other injury, turn power off and allow lamp to fully cool before attempting to replace. Socket condition may affect lamp life. Inspect and replace socket if deterioration has occurred.
- (93) Rated average life is the length of operation (in hours) at which point an average of 50% of the lamps will still be operational and 50% will not.
- (94) To prevent electrical shock, match wide blade of plug to wide slot of outlet, fully insert. Do not cover night light; overheating may occur. Do not plug in near radiator or source of heat. **WARNING:** for indoor use only.

- (95) **NOTICE:** Do not touch bulb with bare hands. Fingerprints may result in shorter life. Remove fingerprints with alcohol. **CAUTION: THIS LAMP IS PRESSURIZED AND COULD SHATTER** so to avoid injury and to avoid exposure to ultraviolet radiation, use only in fixtures that provide a protective shield of tempered glass. Provide adequate ventilation to ensure that seal temperature does not exceed 350° C and use only in fixtures rated for the wattage stated on this package. To avoid risks of burns or other injury, turn power off and allow lamp to fully cool before attempting to replace. Socket condition may affect lamp life. Inspect and replace socket if deterioration has occurred.
- (96) **Operating Instructions:** Do not use lamp in close proximity to combustible materials. If used outdoors, use in an enclosed fixture only. If used indoors, no additional shield is required. Can be operated in all positions. **CAUTION:** Read operating instructions before use. If outer glass breaks, turn power off immediately and avoid touching any metal components. To avoid potential burn and electrical shock during lamp replacement, always turn power off and let lamp cool before replacing bulb. Lasts 2 years based on 4 hours average usage per day/7 days per week.
- (97) **Operating Instructions:** Before replacing, turn off power and let lamp cool to avoid electrical shock or burn. For indoor use only. Do not allow hot bulb to come in contact with liquid or metal parts of the fixture as glass may shatter. Do not exceed the maximum wattage rating of the fixture. Do not use if outer glass is scratched or broken since it may break during operation or removal. If outer glass breaks the lamp may continue to light, however, immediately discontinue use. Due to the heat that radiates from the bulb, do not use in close proximity to combustible materials or objects susceptible to drying or fading. Manage in accord with disposal laws. **CAUTION:** Adherence to the operating instructions will reduce the risk of personal injury or fire. The filament capsule contained inside this glass bulb is pressurized, operates at high temperature and could unexpectedly shatter. Should the outer bulb break, particles of extremely hot glass could be discharged into the fixture and/or the surrounding environment, thereby creating a risk of personal injury or fire.
- (98) **Note:** This twistline has a GU10 base and may be used in fixtures that have either GU10 or GZ10 sockets. **Operating Instructions:** Do not use in close proximity to combustible materials or objects adversely affected by drying or fading. Can be operated in all positions. **CAUTION:** This lamp is pressurized and could shatter so to avoid injury and to avoid exposure to ultraviolet radiation, this lamp should be used in a fixture that provides a protective shield of tempered glass. If outer glass breaks, immediately discontinue use. Always turn power off and let lamp cool before removal to avoid potential burn or electric shock.
- (99) **WARNING: BULB OPERATES AT VERY HIGH TEMPERATURES AND MUST BE USED PROPERLY TO AVOID/REDUCE RISK OF FIRE.** Do not use bulbs greater than 300 watts in indoor residential fixtures. Use only in fixtures specifying this bulb type and that meet revised UL 153 standard for tungsten-halogen torchiere lamps. Bulb is pressurized and could shatter and should only be used in fixtures that provide a protective shield of tempered glass. To avoid exposure to ultraviolet radiation which could cause skin and eye irritation use only in fixtures that provide a protective shield of tempered glass. **NOTICE:** Do not touch bulb with bare hands. Fingerprints may result in reduced performance unless they are removed with alcohol. When operating, bulb is hot. To avoid risks of burns or injury, turn power off and allow bulb to cool before replacing. Socket conditions may affect bulb life. Inspect and replace socket if deterioration has occurred. Provide adequate ventilation to ensure that seal temperature does not exceed 350° C. **TO AVOID/REDUCE RISK OF FIRE, DO NOT USE NEAR COMBUSTIBLE MATERIALS.**