

TUNGSTEN HALOGEN LAMPS • MR8 REFLECTOR

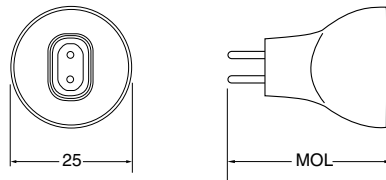
MR8

- Only for Use in Approved Halogen Fixtures
- 25mm, Dichroic Coating, Faceted Mirror Reflector
- Miniature 2-Pin Base - GZ4
- Low Voltage - 12 Volts
- Universal Burn Position

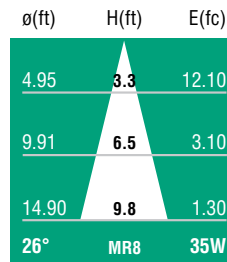
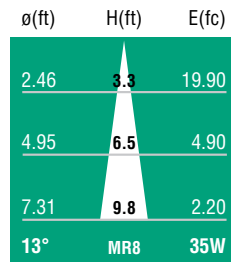
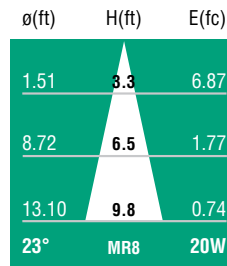
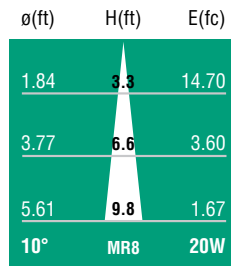


Watts (W)	Ordering Code	Lamp Description	MOL (mm)	Color Temp (K)	Angle	Beam Spread	Max CP (cd)	Ave Life (h)	Case Qty
Miniature 2-Pin Base – GZ4 with Front Glass Cover									
20	1003116	MR8 12V-20W/NSP10/FG	34.6	3050	10°	Narrow Spot	1700	2000	12
20	1003117	MR8 12V-20W/NFL23/FG	34.6	3050	23°	Narrow Flood	800	2000	12
35	1003118	MR8 12V-35W/SP13/FG	34.6	3050	13°	Spot	2300	2000	12
35	1003119	MR8 12V-35W/NFL26/FG	34.6	3050	26°	Narrow Flood	1400	2000	12

At only one inch in diameter, the USHIO MR8 lamp allows for even smaller fixture designs than MR11 and MR16 lamps. Use with USHIO C-14B socket. Ordering code: 1000109.



GZ4

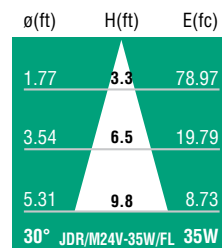
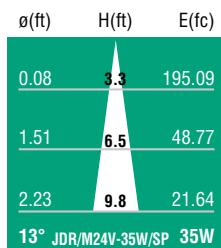
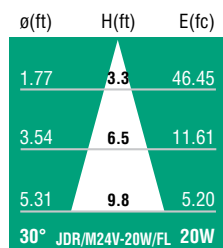
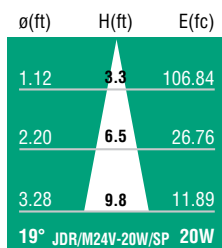
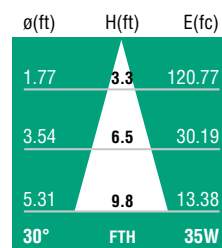
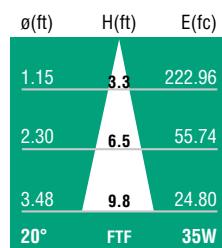
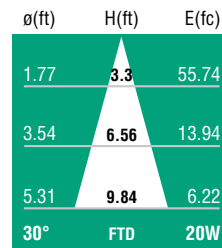
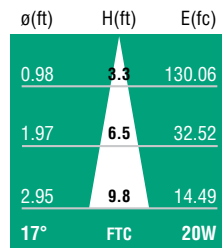
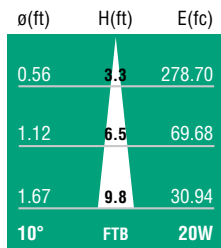
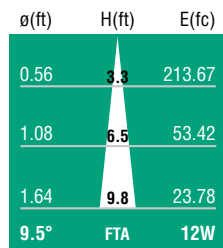
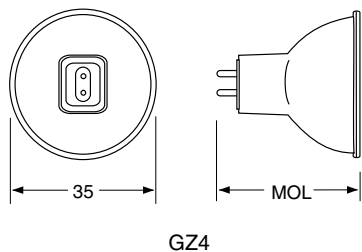


MR11

- Only for Use in Approved Halogen Fixtures
- 35mm, Dichroic Coating, Faceted Mirror Reflector
- Miniature 2-Pin Base - GZ4
- 12 & 24 Volts
- Universal Burn Position
- Available with Front Glass Cover (FG)



Watts (W)	Ordering Code	Lamp Description	MOL (mm)	Color Temp (K)	Angle	Beam Spread	Max CP (cd)	Ave Life (h)	Case Qty
Miniature 2-Pin Base – GZ4									
12	1000615	FTA, JDR/M12V-12W/G/NSP9.5	35.0	2925	9.5°	Narrow Spot	2300	2000	10
12	1000616	FTA/FG, JDR/M12V-12W/G/NSP9.5/FG	35.0	2925	9.5°	Narrow Spot	2300	2000	10
20	1000617	FTB, JDR/M12V-20W/G/SP10	35.0	2925	10°	Spot	3000	2000	10
20	1000618	FTB/FG, JDR/M12V-20W/G/SP10/FG	40.9	2925	10°	Spot	3000	2000	10
20	1000619	FTC, JDR/M12V-20W/G/SP17	35.0	2925	17°	Spot	1400	2000	10
20	1000620	FTC/FG, JDR/M12V-20W/G/SP17/FG	35.0	2925	17°	Spot	1400	2000	10
20	1000621	FTD, JDR/M12V-20W/G/FL30	35.0	2925	30°	Flood	600	2000	10
20	1000622	FTD/FG, JDR/M12V-20W/G/FL30/FG	40.9	2925	30°	Flood	600	2000	10
35	1000625	FTF, JDR/M12V-35W/G/SP20	35.0	2950	20°	Spot	2400	2000	10
35	1000627	FTH, JDR/M12V-35W/G/FL30	35.0	2950	30°	Flood	1300	2000	10
35	1000628	FTH/FG, JDR/M12V-35W/G/FL30/FG	40.9	2950	30°	Flood	1300	2000	10
24 Volt, Miniature 2-Pin Base – GZ4									
20	1001000	JDR/M24V-20W/SP19/FG	40.9	2925	19°	Spot	1150	2000	10
20	1001004	JDR/M24V-20W/FL30/FG	35.0	2925	30°	Flood	500	2000	10
35	1001007	JDR/M24V-35W/SP13	35.0	2925	13°	Spot	2100	2000	10
35	1001010	JDR/M24V-35W/FL30/FG	35.0	2950	30°	Flood	850	2000	10



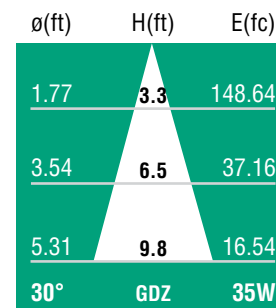
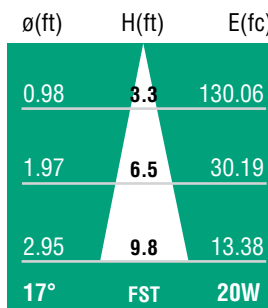
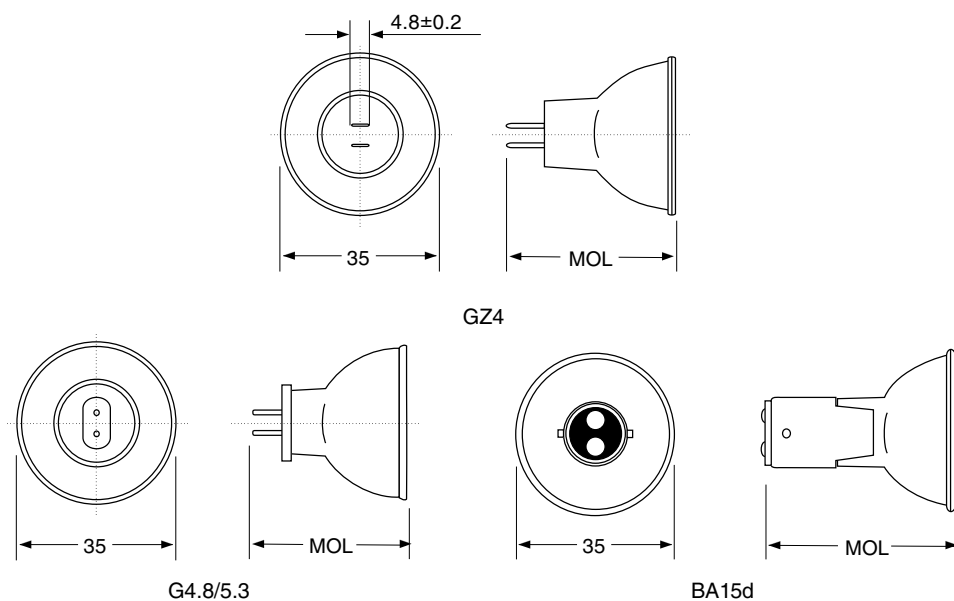
TUNGSTEN HALOGEN LAMPS • MR11 REFLECTOR

MR11

- Only for Use in Approved Enclosed Halogen Fixtures
- Miniature 2-Pin Base - GZ4, 2-Pin Base - G4.8/5.3 & Double Contact Bayonet Base - BA15d
- Low Voltage
- Universal Burn Position
- Faceted (except as noted)



Watts (W)	Ordering Code	Lamp Description	MOL (mm)	Reflector Type	Filament Type	Color Temp (K)	Beam		Max CP (cd)	Ave Life (h)	Case Qty
							Angle	Spread			
Miniature 2-Pin Base – GZ4											
10	1000931	JCR/M6V-10WN/FG	40.8	Faceted	C-6	3050	8.5°	Narrow Spot	3000	200	100
15	1000932	JCR/M6V-15W/FG/XX MR11	35.0	Faceted	C-6	3050	17°	Spot	3900	500	100
20	1000934	JCR/M6V-20W	33.3	Faceted	C-6	3200	20°	Spot	1800	50	10
35	1000930	JCR/M14V-35W	36.0	Specular	C-8	—	—	—	—	50	10
50	1000926	JCR/M12V-50W	35.0	Specular	C-8	—	—	—	—	50	10
2-Pin Base – G4.8/5.3											
75	1000929	JCR/M12V-75W/HO	37.0	Specular	C-8	—	—	—	—	50	10
100	1000921	JCR/M12V-100W	37.0	Specular	C-8	3400	—	—	—	25	10
Double Contact Bayonet Base – BA15d											
20	1000609	FST, JDR/M12V-20W/BA/SP17	44.0	Faceted	C-6	2900	17°	Spot	1400	2000	10
20	1000610	FST/FG, JDR/M12V-20W/BA/SP17/FG	46.5	Faceted	C-6	2900	17°	Spot	1400	2000	10
35	1000659	GDZ, JDR/M12V-35W/BA/FL30	45.0	Faceted	C-6	2950	30°	Flood	1600	2000	10



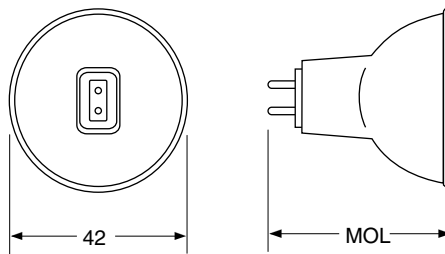
JCR

- Only for Use in Approved Enclosed Halogen Fixtures
- 2-Pin Base - GX5.3
- 42mm Dichroic Coated Reflector
- Operate Base Down to Horizontal
- Focused Beam for Optical Applications



Watts (W)	Ordering Code	Lamp Description	Dimensions MOL (mm)	Reflector Type	Filament Type	Working Distance (mm)	Center Screen Illuminance (lx)	Color Temp (K)	Avg Life (h)	Burn Position
2-Pin Base – GX5.3 MR13 Reflector										
250	1000423	EXY, JCR82V-250W	44.5	Faceted	CC-8	152.4	610	3250	250	BD/Hor
300	1000414	EXR, JCR82V-300W	44.5	Faceted	CC-8	152.4	1100	3350	35	BD/Hor
300	1000421	EXW, JCR82V-300W	44.5	Faceted	CC-8	152.4	1200	3400	15	BD/Hor
300	1000535	FHS, JCR82V-300W	44.5	Faceted	CC-8	152.4	1000	3300	70	BD/Hor

Center Screen Illuminance - Approximate value for reference only

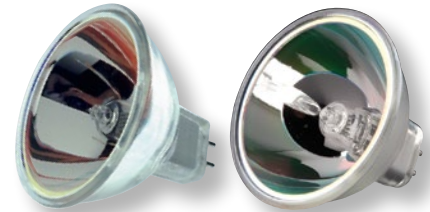


GX5.3

TUNGSTEN HALOGEN LAMPS • MR16 REFLECTOR

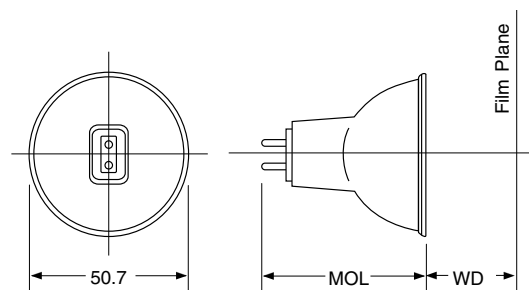
JCR

- Focused Beam for Optical Applications
- Only for Use in Approved Enclosed Halogen Fixtures
- 2-Pin Base - GX5.3
- 50mm Dichroic Coated Reflector



Watts (W)	Ordering Code	Lamp Description	MOL (mm)	Reflector Type	Filament Type	Working Distance (mm)	Luminous Intensity (cd)	Center Screen Illuminance (lx)	Color Temp (K)	Avg Life (h)	Burn Position	Case Qty
2-Pin Base – GX5.3												
30	1000315	EKZ, JCR10.8V-30W	44.5	Specular	CC-6	38.1	—	400	3100	200	BD/Hor	10
35	1000344	EPN, JCR12V-35W	44.5	Specular	C-6	29.0	—	350	3300	50	BD/Hor	10
50	1000335	ENL, JCR12V-50W	44.5	Faceted	C-6	38.1	2000	—	3000	4000	Univ	10
50	1000350	EPZ, JCR13.8V-50W	44.5	Specular	CC-6	108	—	—	3150	1000	BD/Hor	10
50	1000339	ENZ, JCR30V-50W	44.5	Specular	CC-6	29.0	—	650	3400	25	BD/Hor	12
80	1000174	DDM, JCR19V-80W	44.5	Faceted	CC-6	152.4	—	680	3350	50	BD/Hor	10
80	1000303	EJY, JCR19V-80W	44.5	Specular	CC-6	38.1	—	—	3400	25	BD/Hor	12
80	1000307	EKG, JCR19V-80W	44.5	Specular	CC-6	44.5	—	700	3400	25	BD/Hor	10
80	1000336	ENW/ENC, JCR19V-80W	44.5	Specular	CC-6	44.5	—	600	3200	400	BD/Hor	10
80	1000177	DDS, JCR21V-80W	44.5	Faceted	CC-6	165.0	—	646	3125	500	BD/Hor	10
80	1000312	EKP, JCR30V-80W	44.5	Faceted	CC-6	44.5	—	750	3400	25	BD/Hor	10
80	1000317	ELB, JCR30V-80W	44.5	Specular	CC-6	29.0	—	900	3400	15	BD/Hor	12
85	1000180	DED, JCR13.8V-85W	44.5	Specular	C-8	165.0	—	1000	3150	1000	BD/Hor	10
90	1000347	EPV, JCR14.5V-90W	44.5	Stippled	CC-6	155.2	—	1345	3150	500	BD/Hor	10
90	1000349	EPX, JCR14.5V-90W	44.5	Stippled	CC-6	165.1	—	538	3150	500	BD/Hor	10
100	1000326	EMC, JCR12V-100W	44.5	Faceted	CC-6	26.5	—	—	3200	200	BD/Hor	10
100	1000420	EXV, JCR12V-100W	44.5	Faceted	C-6	—	4500	—	3350	50	BD/Hor	10
120	1000311	EKN, JCR17.7V-120W	44.5	Specular	CC-6	38.1	—	1000	3200	120	BD/Hor	10
150	1000173	DDL, JCR20V-150W	44.5	Faceted	CC-6	194.5	—	400	3150	500	BD/Hor	10
150	1001628	EKE/HO, JCR21V-150W	44.5	Specular	CC-6	43	—	—	3250	200	BD/Hor	10
150	1000297	EJA, JCR21V-150W	44.5	Specular	CC-6	28	—	—	3400	40	BD/Hor	10
150	1000301	EJM, JCR21V-150W	44.5	Specular	CC-6	38.1	—	—	3400	40	BD/Hor	10
150	1000302	EJV, JCR21V-150W	44.5	Specular	CC-6	44.5	—	1500	3400	40	BD/Hor	10
150	1000306	EKE, JCR21V-150W	44.5	Specular	CC-6	44.5	—	900	3250	200	BD/Hor	10
150	1003370	EKE/L, JCR21V-150W 10H/5	44.5	Specular	CC-6	—	—	—	—	1000	BD	10
150	1000319	ELD/EJN, JCR21V-150W	44.5	Stippled	CC-6	50.8	—	320	3400	40	BD/Hor	10
200	1000300	EJL, JCR24V-200W	44.5	Specular	CC-6	31.7	—	1100	3400	50	BD/Hor	10
200	1000314	EKX, JCR24V-200W	44.5	Stippled	CC-6	139.7	—	—	3400	25	BD/Hor	10
250	1000318	ELC, JCR24V-250W	44.5	Specular	CC-6	31.7	—	1500	3400	50	BD/Hor	10
250	1003106	ELC-3, JCR24V-250W	44.5	Specular	CC-6	31.8	—	960	3400	300	BD/Hor	10
250	1003264	ELC-5, JCR24V-250W	44.5	Specular	CC-6	31.8	—	960	3400	500	BD/Hor	10

Center Screen Illuminance - Approximate value for reference only



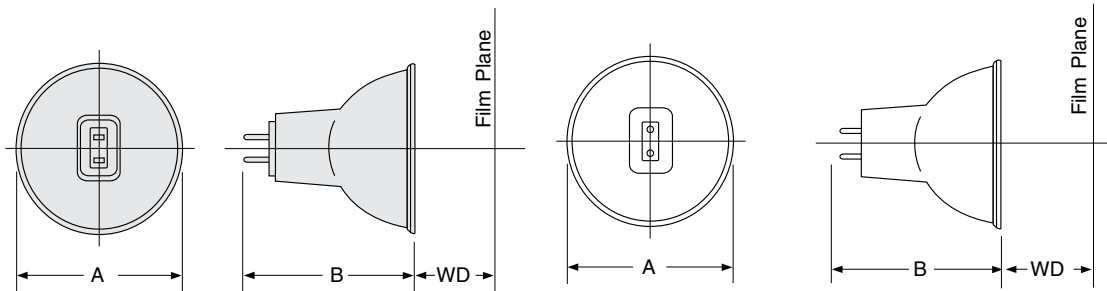
GX5.3

JCR

- Focused Beam for Optical Applications
- Only for Use in Approved Enclosed Halogen Fixtures
- Oval 2-Pin Base - GY5.3, 2-Pin Base - GZ6.35
- 50mm Dichroic Coated Reflector
- Operate Base Down to Horizontal



Watts	Ordering Code	Lamp Description	Dimensions (mm)		Reflector Type	Filament Type	Working Distance (mm)	Color Temp (K)	Avg Life (h)	Burn Position	Case Qty
			Dia (A)	MOL (B)							
Oval 2-Pin Base – GY5.3											
85	1000357	ESH, JCR82V-85W	50.67	44.5	Stippled	CC-8	152.0	2950	250	BD/Hor	10
85	1000358	ESJ, JER82V-85W	50.67	44.5	Specular	CC-8	32.0	3350	40	BD/Hor	10
150	1000356	ESD, JCR120V-150W	50.67	44.5	Stippled	CC-8	44.5	3350	12	BD/Hor	12
150	1000940	JCR120V-150W/B	50.67	44.5	Stippled	CC-8	—	3050	100	BD/Hor	10
200	1000441	EYA, JCR82V-200W	50.67	44.5	Faceted	CC-8	38.1	3300	50	BD/Hor	12
250	1000386	EVW, JCR82V-250W	50.67	44.5	Faceted	CC-8	298.5	3300	50	BD/Hor	10
250	1000333	ENH, JCR120V-250W	50.67	44.5	Faceted	CC-8	152.4	3250	175	BD/Hor	10
250	1000379	ETJ, JCR120V-250W	50.67	44.5	Specular	CC-8	36.5	3250	175	BD/Hor	10
300	1000321	ELH, JCR120V-300W	50.67	44.5	Stippled	CC-8	154.3	3350	35	BD/Hor	10
300	1000332	ENG, JCR120V-300W	50.67	44.5	Stippled	CC-8	152.4	3450	15	BD/Hor	10
360	1000337	ENX, JCR82V-360W	50.67	44.5	Faceted	CC-8	298.5	3300	75	BD/Hor	10
360	1000338	ENX-5, JCR86V-360W	50.67	44.5	Faceted	CC-8	298.5	3300	75	BD/Hor	10
410	1000636	FXL, JCR82V-410W	50.67	44.5	Faceted	CC-8	298.5	3300	75	BD/Hor	10
2-Pin Base – GZ6.35											
50	1000268	EFM, JCR8V-50W	49.7	42.0	—	C-6	32.0	3350	50	BD/Hor	10
75	1000270	EFN, JCR12V-75W	50.0	42.0	Specular	C-6	32.0	3400	50	BD/Hor	10
100	1000271	EFP, JCR12V-100W	50.0	42.0	Specular	C-6	32.0	3400	50	BD/Hor	10
100	1003003	JCR12V-100W/H10	50.0	42.0	Specular	C-8	32.0	3100	1000	BD/Hor	10
150	1000272	EFR, JCR15V-150W	50.0	42.0	Specular	C-8	32.0	3400	50	BD/Hor	10



GY5.3

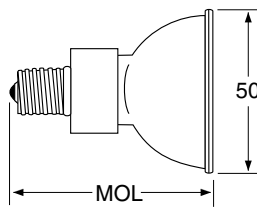
GZ6.35

JDR Line Voltage

- Only for Use in Approved Enclosed Halogen Fixtures
- 50mm Dichroic Coated Reflector
- Line Voltage - 120 Volts
- Operate Base Up
- Intermediate Screw Base - E17



Watts (W)	Ordering Code	Lamp Description	ANSI Code	MOL (mm)	Color Temp (K)	Beam		Max CP (h)	Avg Life	Case Qty
						Angle	Spread (cd)			
Intermediate Screw Base - E17										
75	1001032	JDR120V-75WL/SP14	FSA	75	3000	14°	Spot	5000	2000	10
75	1001030	JDR120V-75WL/NFL24	FSB	75	3000	24°	Narrow Spot	1800	2000	10
75	1001033	JDR120V-75WL/FL38	FSD	75	3000	38°	Flood	1300	2000	10
100	1001013	JDR120V-100WL/SP14	FSC	75	3000	14°	Spot	7100	2000	12
100	1001011	JDR120V-100WL/NFL24	FSE	75	3000	24°	Narrow Spot	4200	2000	10
100	1001016	JDR120V-100WL/FL38	FSF	75	3000	38°	Flood	2800	2000	10



E17

ECO PLUS PAR (PAR20, 30, 30LN & 38)

- Energy Savings
- Silver Coated Reflector for Improved Collection Efficiency
- Meets US Federal Minimum Efficiency Standard
- Medium Screw Base - E26
- Dimmable
- Mercury Free
- Universal Burn Position
- 120 Volts



Watts (W)	Ordering Code	Lamp Description	Dimensions		Color Temp (K)	Beam		Approx. Lumens (lm)	Avg Life (h)	Case Qty
			Dia (A)	MOL (B)		Angle	Spread			
ECO PLUS PAR20 Medium Screw Base – E26*										
38	1003839	ⓔ 38PAR20/FL30/120V	2.50	3.25	2900	30°	Flood	500	2500	15
ECO PLUS PAR30 Medium Screw Base – E26*										
38	1003842	ⓔ 38PAR30/FL30/120V	3.75	3.63	2900	30°	Flood	530	2500	15
60	1003841	ⓔ 60PAR30/FL30/120V	3.75	3.63	2900	30°	Flood	1070	2000	15
ECO PLUS PAR30 LONG NECK Medium Screw Base – E26*										
38	1003844	ⓔ 38PAR30LN/FL30/120V	3.75	4.75	2900	30°	Flood	520	2500	15
60	1003843	ⓔ 60PAR30LN/FL30/120V	3.75	4.75	2900	30°	Flood	1070	2000	15
ECO PLUS PAR38 Medium Screw Base – E26*										
38	1003847	ⓔ 38PAR38/FL25/120V	4.75	5.31	2900	25°	Flood	550	2500	15
43	1003848	ⓔ 43PAR38/FL25/120V	4.75	5.31	2900	25°	Flood	700	2000	15
60	1003845	ⓔ 60PAR38/FL25/120V	4.75	5.31	2900	25°	Flood	1070	2000	15
70	1003846	ⓔ 70PAR38/FL25/120V	4.75	5.31	2900	25°	Flood	1310	2000	15

ⓔ = This bulb meets US Federal Minimum Efficiency Standard.

All dimensions shown in inches unless otherwise noted.

* Only for use in approved Halogen fixtures.

