

# EUROSTAR™ MR16, 12V

## 12V DICHROIC MR16 LAMPS

Have you ever seen a lighting application where the MR16 lamps range from pink to orange and green? That is because the lamps have inferior reflector coatings. The USHIO Eurostar™ reflector utilizes a multilayer titanium oxide coating which is much more durable than the standard dichroic coatings. The thickness and application of these coatings ensure that they do not crack or peel under the stress of high temperatures. Our Eurostar MR16's maintain color from lamp to lamp and throughout the life of the lamp.

Inferior lamps display uneven and inaccurate beam patterns. Beam accuracy and uniformity is controlled by proper alignment of the lamp filament within the reflector. USHIO focuses the lamp filament inside the reflector, thereby optimizing the lamp's specified beam pattern, light intensity, and beam uniformity.

Available in - 10W, 20W, 35W, 50W and 75W in  
Spot, Narrow Flood, Flood, and Wide Flood beam spreads



## FEATURES & BENEFITS:

- Long Life - Up to 5000 Hours Average
- Excellent Center-to-Edge Uniformity
- High Quality Titanium Oxide Coating
- Axial Filament for Precise Beam Control
- Dimmable
- Crisp White Halogen Light
- UV-Cut Halogen Capsule
- Base Type GU5.3

## APPLICATIONS:

- Museums
- Galleries
- Retail Shops
- Accent Lighting
- Offices and Commercial Areas
- Restaurants



Eurostar™ lamps are manufactured under ISO 9001 guidelines ensuring quality and security for the purchaser.

# USHIO

# EUROSTAR™ MR16, 12V

## 12V Dichroic MR16 Lamps for General Lighting

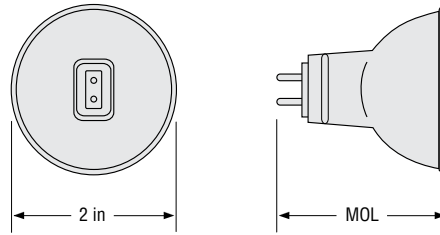
Case Quantity: 50

Watts (W)	Ordering Code	Lamp Description	MOL (in)	Color Temp (K)	Beam Angle	Beam Spead	Luminous Intensity (cd)	Burn Position	Average Rated Life (h)
<b>12V EUROSTAR™ MR16, 2-Pin Base, C-8 Filament</b>									
10	1001107	JR12V-10W/NFL21	1.77	2800	21°	Narrow Flood	600	Universal	1200
10	1001108	JR12V-10W/NFL21/FG	1.78	2800	21°	Narrow Flood	600	Universal	1200
10	1003154	JR12V-10W/NFL32	1.77	2800	32°	Flood	400	Universal	1200
20	1000366	ESX, JR12V-20W/SP12	1.77	2950	12°	Spot	3500	Universal	5000
20	1000370	ESX/FG, JR12V-20W/SP12/FG	1.78	2950	12°	Spot	3500	Universal	5000
20	1000028	BBF, JR12V-20W/NFL24	1.77	2950	24°	Narrow Flood	1200	Universal	5000
20	1000037	BBF/FG, JR12V-20W/NFL24/FG	1.78	2950	24°	Narrow Flood	1200	Universal	5000
20	1000000	BAB, JR12V-20W/FL36	1.77	2950	36°	Flood	600	Universal	5000
20	1000014	BAB/FG, JR12V-20W/FL36/FG	1.78	2950	36°	Flood	600	Universal	5000
20	1000001	BAB/60, JR12V-20W/WFL60	1.77	2950	60°	Wide Flood	270	Universal	5000
20	1000004	BAB/60/FG, JR12V-20W/WFL60/FG	1.78	2950	60°	Wide Flood	270	Universal	5000
35	1000548	FMT, JR12V-35W/SP12	1.77	2950	12°	Spot	6000	Universal	5000
35	1000551	FMT/FG, JR12V-35W/SP12FG	1.78	2950	12°	Spot	6000	Universal	5000
35	1000552	FMV, JR12V-35W/NFL24	1.77	2950	24°	Narrow Flood	2300	Universal	5000
35	1000559	FMV/FG, JR12V-35W/NFL24/FG	1.78	2950	24°	Narrow Flood	2300	Universal	5000
35	1000564	FMW, JR12V-35W/FL36	1.77	2950	36°	Flood	1300	Universal	5000
35	1000573	FMW/FG, JR12V-35W/FL36FG	1.78	2950	36°	Flood	1300	Universal	5000
35	1000565	FMW/60, JR12V-35W/WFL60	1.77	2950	60°	Wide Flood	510	Universal	5000
35	1000566	FMW/60/FG, JR12V-35W/WFL60/FG	1.78	2950	60°	Wide Flood	510	Universal	5000
50	1000416	EXT, JR12V-50W/SP12	1.77	3000	12°	Spot	11000	Universal	5000
50	1000419	EXT/FG, JR12V-50W/SP12/FG	1.78	3000	12°	Spot	11000	Universal	5000
50	1000424	EXZ, JR12V-50W/NFL24	1.77	3000	24°	Narrow Flood	3600	Universal	5000
50	1000430	EXZ/FG, JR12V-50W/NFL24/FG	1.78	3000	24°	Narrow Flood	3600	Universal	5000
50	1000398	EXN, JR12V-50W/FL36	1.77	3000	36°	Flood	2000	Universal	5000
50	1000405	EXN/FG, JR12V-50W/FL36/FG	1.78	3000	36°	Flood	2000	Universal	5000
50	1000589	FNV, JR12V-50W/WFL60	1.77	3000	60°	Wide Flood	850	Universal	5000
50	1000592	FNV/FG, JR12V-50W/WFL60/FG	1.78	3000	60°	Wide Flood	850	Universal	5000
75	1000451	EYF, JR12V-75W/SP12	1.77	3000	12°	Spot	13000	Universal	5000
75	1000452	EYF/FG, JR12V-75W/SP12/FG	1.78	3000	12°	Spot	13000	Universal	5000
75	1000454	EYJ/EZZ, JR12V-75W/NFL24	1.77	3000	24°	Narrow Flood	4800	Universal	5000
75	1000455	EYJ/EZZ/FG, JR12V-75W/NFL24/FG	1.78	3000	24°	Narrow Flood	4800	Universal	5000
75	1000444	EYC, JR12V-75W/FL36	1.77	3000	36°	Flood	2700	Universal	5000
75	1000447	EYC/FG, JR12V-75W/FL36/FG	1.78	3000	36°	Flood	2700	Universal	5000
75	1000445	EYC/60, JR12V-75W/WFL60	1.77	3000	60°	Wide Flood	1220	Universal	5000
75	1000446	EYC/60/FG, JR12V-75W/WFL60/FG	1.78	3000	60°	Wide Flood	1220	Universal	5000

All dimensions shown in inches unless otherwise noted.

# EUROSTAR™ MR16, 12V

## 12V Dichroic MR16 Lamps for General Lighting



**GU5.3 Base**

ø(ft)	H(ft)	E(fc)
1.25	3.3	55.74
2.53	6.6	13.94
3.77	9.8	6.22
5.05	13.1	3.53
<b>21° JR12V-10W/NFL 10W</b>		

ø(ft)	H(ft)	E(fc)
1.97	3.3	37.16
3.94	6.6	9.29
5.90	9.8	4.09
7.87	13.1	2.32
<b>32° JR12V-10W/FL 10W</b>		

ø(ft)	H(ft)	E(fc)
0.69	3.3	325.15
1.38	6.6	81.29
2.10	9.8	36.14
2.79	13.1	20.35
<b>12° ESX 20W</b>		

ø(ft)	H(ft)	E(fc)
0.69	3.3	557.40
1.38	6.6	139.35
2.10	9.8	61.96
2.79	13.1	34.84
<b>12° FMT 35W</b>		

ø(ft)	H(ft)	E(fc)
0.69	3.3	1021.90
1.38	6.6	255.48
2.10	9.8	113.52
2.79	13.1	63.92
<b>12° EXT 50W</b>		

ø(ft)	H(ft)	E(fc)
0.69	3.3	1207.70
1.38	6.6	301.93
2.10	9.8	134.15
2.79	13.1	75.43
<b>12° EYF 75W</b>		

ø(ft)	H(ft)	E(fc)
1.41	3.3	111.48
2.79	6.6	27.87
4.20	9.8	12.36
5.58	13.1	6.97
<b>24° BBF 20W</b>		

ø(ft)	H(ft)	E(fc)
1.41	3.3	213.67
2.79	6.6	53.42
4.20	9.8	23.78
5.58	13.1	13.38
<b>24° FMV 35W</b>		

ø(ft)	H(ft)	E(fc)
1.41	3.3	334.44
2.79	6.6	83.61
4.20	9.8	37.16
5.58	13.1	23.69
<b>24° EXZ 50W</b>		

ø(ft)	H(ft)	E(fc)
1.41	3.3	445.92
2.79	6.6	111.48
4.20	9.8	49.52
5.58	13.1	27.87
<b>24° EYJ/EZZ 75W</b>		

ø(ft)	H(ft)	E(fc)
2.13	3.3	55.74
4.26	6.6	13.94
6.40	9.8	6.22
8.53	13.1	3.53
<b>36° BAB 20W</b>		

ø(ft)	H(ft)	E(fc)
2.13	3.3	120.77
4.26	6.6	30.19
6.40	9.8	13.38
8.53	13.1	7.52
<b>36° FMW 35W</b>		

ø(ft)	H(ft)	E(fc)
2.13	3.3	185.80
4.26	6.6	46.45
6.40	9.8	20.62
8.53	13.1	11.61
<b>36° EXN 50W</b>		

ø(ft)	H(ft)	E(fc)
2.13	3.3	250.83
4.26	6.6	62.71
6.40	9.8	27.87
8.53	13.1	15.70
<b>36° EYC 75W</b>		

ø(ft)	H(ft)	E(fc)
3.77	3.3	25.08
7.58	6.6	6.32
11.35	9.8	2.79
15.15	13.1	1.58
<b>60° BAB/60 20W</b>		

ø(ft)	H(ft)	E(fc)
3.77	3.3	47.38
7.58	6.6	11.89
11.35	9.8	5.30
15.15	13.1	2.97
<b>60° FMW/60 35W</b>		

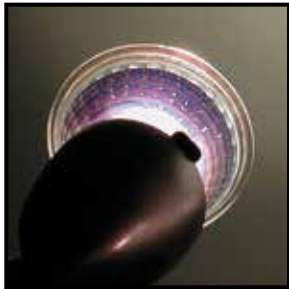
ø(ft)	H(ft)	E(fc)
3.77	3.3	78.97
7.58	6.6	19.69
11.35	9.8	8.73
15.15	13.1	4.92
<b>60° FNV 50W</b>		

ø(ft)	H(ft)	E(fc)
3.77	3.3	113.33
7.58	6.6	28.33
11.35	9.8	12.63
15.15	13.1	7.06
<b>60° EYC/60 75W</b>		

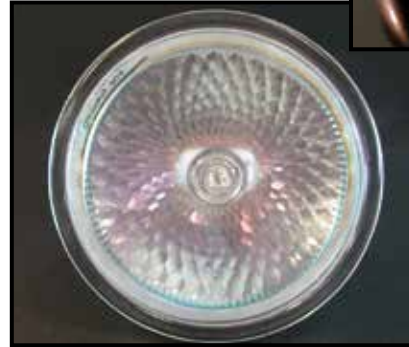
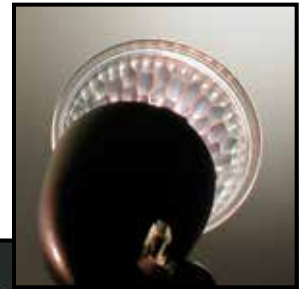
# EUROSTAR™ MR16, 12V

12V Dichroic MR16 Lamps for General Lighting

## EUROSTAR™ There is a difference...



**Brand X** – Standard dichroic reflector  
C-6 filament coating has cracked and degraded after only 3000 hours



**USHIO** – Titanium Oxide multilayer coating  
C-8 filament coating remains clean and intact throughout its 5000 hour life rating



**Brand X** – Uneven beam pattern, low color temperature, green color and low output



**USHIO** – Total beam uniformity, white Halogen light and higher output