

# HALOGEN LAMPS

Lighting is an art, be the artist





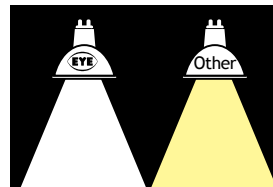
# Can you afford a poor quality halogen lamp?

## How important is quality?

When visually inspecting a halogen lamp, it is difficult to distinguish any difference in quality. Poor quality becomes apparent only during operation.

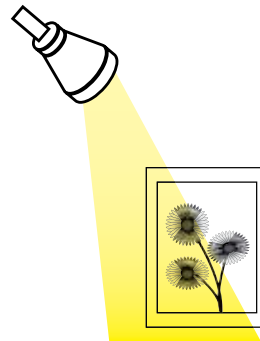
A low quality halogen lamp can damage your fixture and provide low performance. The following are factors to be considered when choosing a halogen lamp.

## Colour and Light Output



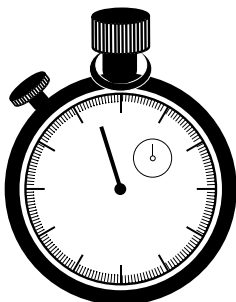
The main features of a halogen lamp are its crisp white light and brightness (high lumen output). The use of poor components and lack of proper controls in the production process results in yellow colour.

## Beam Control



Halogen spot and flood lamps are designed to project precise and accurate beam spreads. Poor production controls can cause the halogen capsule to be improperly positioned in the reflector, subsequently causing the beam to be distorted.

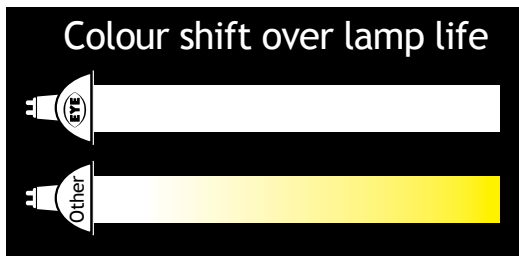
## Life Hours



The shorter the life of a lamp, the higher the maintenance and replacement costs. All stages of the construction of a halogen lamp affect the life of a lamp, such as the gas quality, the fill pressure, the filament wire, the purity of the glass, the base, the automation of the production process and the quality control procedures.

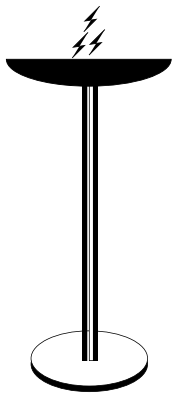


## Colour Shifting



The mirror reflector of a halogen lamp should be made of high quality material. If it is not, the white colour will shift over time to tints of green, yellow, blue and red and the lumen output will be adversely affected.

## Fixture and Socket Protection



Since halogen lamps operate at extremely high heat, it is critical that the operating temperature in the fixture be well controlled. EYE halogen lamp bases are made of high quality steel. Using other materials in base construction is dangerous as it can greatly increase the chance of fire since the metal of the lamp base can weld to the contact in the socket. Poor lamp designs can also lead to lamp explosion causing damage to the fixture.

## Can you STILL afford a poor quality halogen lamp?

EYE halogen lamps are made with the highest quality components and are fully warranted against poor workmanship and defects. EYE halogen lamps provide controlled operating temperatures, long life, constant crisp white light and precise beam control.

# Halogen Lamp Selection Guide




Product	Type	Rated voltage (V)	Watts (W)	Reflector diameter (mm)	Application	Page
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## MR8

MR8 with Cover Glass		6 12	20 35	25	Display cases Retail stores Track and recessed lighting	Museums Offices Restaurants Residential	7
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Product	Type	Rated voltage (V)	Watts (W)	Reflector diameter (mm)	Application	Page
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## MR11

MR11 with Cover Glass		12	12 20 35	35	Retail stores Offices Display cases	Residential Track and recessed lighting	8
MR11 Open		12	12 20 35	35	Retail stores Offices Commercial Residential	Display cases Track and recessed lighting	8
MR11 24V with Cover Glass		24	20 35	35	24 V Operation lighting systems	Aircraft Automotive Marine	9

Product	Type	Rated voltage (V)	Watts (W)	Reflector diameter (mm)	Application	Page
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## MR16




MR16 Open		12	20 35 42 50	50	Retail stores Offices Residential Landscapes	Display cases Track and recessed lighting	10-11
MR16 with Cover Glass		12	20 35 42 50 65 75	50	Display cases Retail stores Showrooms Residential	Offices Restaurants/Lounges Track and recessed lighting	12-13
MR16 Super Soft with Cover Glass		12	20 35 50	50	Displays Museums Art galleries Retail stores High gloss surfaces	Restaurants Residential Offices Commercial	14
MR16 Aluminum Back with Cover Glass		12	20 50	50	Retail stores Landscape Offices	Residential Restaurants Track lighting	15
MR16 10 000 Hour Life with Cover Glass		12	20 35 50	50	Retail stores Restaurants Offices Commercial	Landscapes Display cases Hard to reach areas Track and recessed lighting	16-18
MR16 Coloured with Cover Glass		12	50	50	Displays Retail stores Restaurants	Lounges/Clubs Decorative Applications Landscapes	19
MR16 High Colour Temperature (3 450 K and 4 200 K)		12	20 35 50	50	Jewellery stores Display cases Retail stores Museums	Florists Residential Landscapes	20-21



# Halogen Lamp Selection Guide





Product	Type	Rated voltage (V)	Watts (W)	Reflector diameter (mm)	Application	Page
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## MR16

MR16 UV Cut with Cover Glass		12	20 35 50 65	50	Fabrics Museums Art galleries	Apparel stores Residential	22
MR16 JDR lamps		120	55 75 100	50	Residential Retail Stores Museums	Displays Offices Restaurants/Lounges	23
MR16 24V with Cover Glass		24	35 50	50	24 V operation lighting systems Aircrafts	Automotive Marine Residential	24


Product	Type	Rated voltage (V)	Watts (W)	Application	Page
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## Single Ended

Double Envelope E26 base (JT)		120	50 75 100	Retail stores Lounges Furniture Museums	Restaurants Residential Wall sconces Floor and table lamps	25
Single Ended E10, E11, E14, E26, E27 bases (JD)		28 130 230 250	75 100 150 250 400 500	Display cases Lounges Retail stores	Museums Restaurants Marine/boat applications	26
Single Ended BA15d base (JD)		28 130 230	50 75 100 150 250 400 500	Display cases Lounges Retail stores	Museums Restaurants Marine/boat applications	27
Single Ended JC G4, G6.35, GY6.35 bases (JC)		6 12 24 120	10 20 30 35 50 55 75 100 150 250 300	Display cases Lounges Retail stores	Museums Restaurants Furniture	28

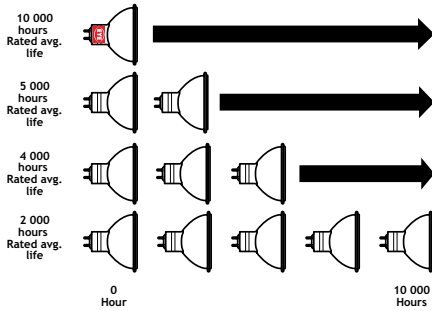
Product	Type	Rated Voltage (V)	Watts (W)	Application	Page
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## Double Ended

Double Ended (J)		120 130 220 240	100 150 200 250 300 400 500 750 1000 1500	Floor lamps Flood lighting	Sconces Bathbar fixtures	29
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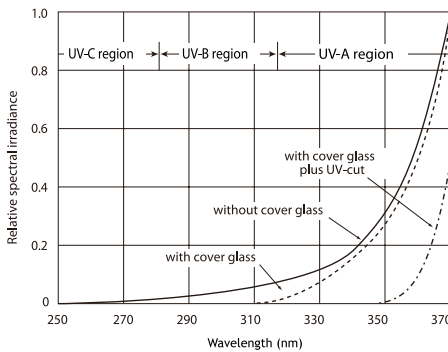
# Featured Products

## MR16 10 000 Hours



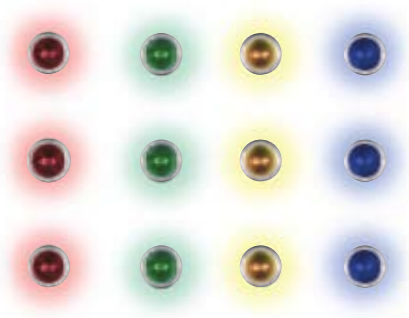
EYE's MR16 10 000 hour halogen lamps offer a crisp high quality white light that lasts over an extended period of time. The extended life of these lamps ensures lower maintenance costs and fewer disruptions in hard to reach and high traffic areas. The accurate optical design and special dichroic coating directs heat through the back of the lamp and delivers light exactly where it is needed. MR16 10 000 hour lamps are also available in UV Cut and high colour temperature types.

## MR16 UV Cut



EYE's MR16 UV Cut lamps allow illumination of delicate objects and materials such as fine art and fabrics. The lamps greatly reduce UV-A radiation and minimize the amount of fading and discoloration.

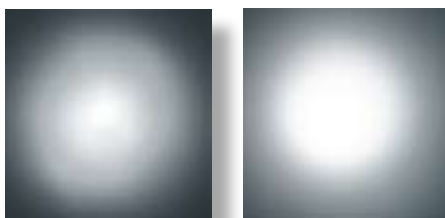
## MR16 Coloured Cover Glass



EYE's MR16 Coloured Cover Glass lamps come in a variety of colours. They are perfect for creating ambience and adding a distinct atmosphere to surroundings. Whether creating a warm environment with a red MR16 or a cooler one with a blue MR16, these coloured cover glass lamps are perfect for all moods.

## MR16 Super Soft

Compare with any other conventional MR16 lamp and see the difference!



Conventional MR16

 MR16 Super Soft

EYE's MR16 Super Soft lamps maintain all the advantages of EYE's traditional halogen lamps while providing a soft diffused light with a wider beam that helps to eliminate unwanted glare.



# MR8 with Cover Glass

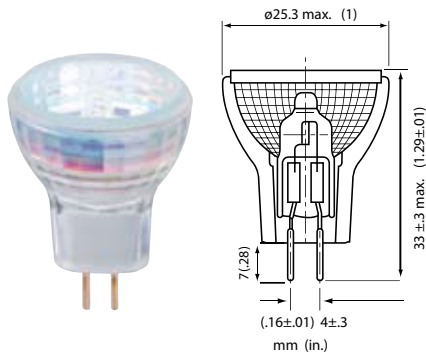
EYE's halogen MR8 is easily hidden in small fixtures where light sources need to be almost invisible. The special dichroic coating directs the heat through the back of the lamp while a precise beam of high quality white light is directed to the display, protecting heat-sensitive objects.

## Features

- Consistent light colour and brightness
- Compact size
- Covered glass for reduced UV output
- Precise optical design

## Applications

- Display cases
- Museums
- Retail stores
- Restaurants
- Residential
- Offices
- Track and recessed lighting



Order code	Description	Watts (W)	Base	Volts (V)	Colour temp. (K)	Beam angle (°)	CBCP*	Average life (hrs)	MOL** (in.) (mm)	Case Qty
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## MR8 with Cover Glass

15300	20MR8/NSP/12V/CG/GU4 EYE	20	GU4	12	2 950	10	1 400	2 000	1.29 33	50
15301	20MR8MFL/12/CG/GU4 EYE	20	GU4	12	2 950	21	700	2 000	1.29 33	50
15304	35MR8/NSP/12V/CG/GU4 EYE	35	GU4	12	3 050	12	2 000	2 000	1.29 33	50
15305	35MR8/MFL/12V/CG/GU4 EYE	35	GU4	12	3 050	24	1 300	2 000	1.29 33	50

\* Center Beam Candle Power  
\*\* Conversions may vary slightly

## Photometrics

### 20 watts

Beam angle: 10°

ø(m)	H(m)	E(lx)
0.16	1	1400
0.35	2	350
0.53	3	160

15300

Beam angle: 21°

ø(m)	H(m)	E(lx)
0.37	1	700
0.74	2	180
1.11	3	80

15301

### 35 watts

Beam angle: 12°

ø(m)	H(m)	E(lx)
0.21	1	2000
0.42	2	500
0.63	3	220

15304

Beam angle: 24°

ø(m)	H(m)	E(lx)
0.43	1	1300
0.83	2	330
1.26	3	140

15305



# MR11

EYE's MR11 high and low voltage lamps offer crisp white light and accurate beam control for focused light output. The long lasting dichroic coating directs the heat through the back of the lamp while delivering a precise beam of consistent light and colour brightness.

## Features

- Crisp white light
- Long lasting dichroic coating
- Consistent colour and brightness

## Applications (low voltage)

- Track and recessed lighting
- Offices
- Residential
- Display cases
- Retail stores
- Commercial

## Applications (high voltage)

- 24 volt operation lighting systems
- Automotive
- Aircraft
- Marine

Order code	Description	ANSI code	Watts (W)	Base	Volts (V)	Colour temp. (K)	Beam angle (°)	CBCP*	Average life (hrs)	MOL** (in.) (mm)	Case Qty
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## MR11 with Cover Glass

15473	12MR11CG/NSP FTA EYE	FTA	12	GZ4	12	2 800	10	1 500	2 000	1.49 38	50
15474	12MR11CG/NFL EYE	-	12	GZ4	12	2 800	20	840	2 000	1.49 38	50
15475	12MR11CG/MFL EYE	-	12	GZ4	12	2 800	34	480	2 000	1.49 38	50
15479	20MR11CG/NSP FTB EYE	FTB	20	GZ4	12	2 950	10	3 750	2 000	1.49 38	50
15480	20MR11CG/NFL FTC EYE	FTC	20	GZ4	12	2 950	20	1 360	2 000	1.49 38	50
15481	20MR11CG/MFL FTD EYE	FTD	20	GZ4	12	2 950	34	900	2 000	1.49 38	50
15485	35MR11CG/SP FTE EYE	FTE	35	GZ4	12	3 050	10	4 200	3 000	1.49 38	50
15486	35MR11/CG/NFL/FTF EYE	FTF	35	GZ4	12	3 050	20	2 350	3 000	1.49 38	50
15487	35MR11CG/MFL FTH EYE	FTH	35	GZ4	12	3 050	34	1 300	3 000	1.49 38	50
15477	12MR11NFL/CG/DC EYE	-	12	BA15d	12	2 800	20	840	2 000	1.54 39	50
15482	20MR11CG/DC/NSP FSS EYE	FSS	20	BA15d	12	2 950	10	3 750	2 000	1.54 39	50
15483	20MR11CG/DC/NFL FST EYE	FST	20	BA15d	12	2 950	20	1 360	2 000	1.54 39	50
15484	20MR11CG/DC/NFL FSV EYE	FSV	20	BA15d	12	2 950	34	900	2 000	1.54 39	50
15489	35MR11CG/DC/NSP GDY EYE	GDY	35	BA15d	12	3 050	20	2 350	3 000	1.54 39	50

## MR11 Open

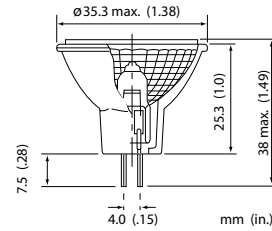
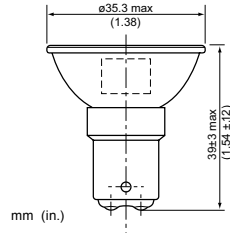
15406	12MR11/NSP FTA EYE	FTA	12	GZ4	12	2 900	8	1 500	2 000	1.49 38	50
30330	12MR11/NFL EYE	-	12	GZ4	12	2 900	19	500	2 000	1.49 38	50
30331	12MR11/MFL EYE	-	12	GZ4	12	2 900	25	350	2 000	1.49 38	50
15407	20MR11/NSP FTB EYE	FTB	20	GZ4	12	2 950	8	4 200	2 000	1.49 38	50
15408	20MR11/NFL FTC EYE	FTC	20	GZ4	12	2 950	19	1 450	2 000	1.49 38	50
15409	20MR11/MFL FTD EYE	FTD	20	GZ4	12	2 950	28	700	2 000	1.49 38	50
15413	35MR11/SP FTE EYE	FTE	35	GZ4	12	3 050	10	6 000	3 000	1.49 38	50
15414	35MR11/NFL FTF EYE	FTF	35	GZ4	12	3 050	20	2 500	3 000	1.49 38	50
15415	35MR11/MFL FTH EYE	FTH	35	GZ4	12	3 050	29	1 350	3 000	1.49 38	50
15416	35MR11/DC/SP GDY EYE	GDX	35	BA15d	12	3 050	10	6 000	3 000	1.54 39	50

\* Center Beam Candle Power  
\*\* Conversions may vary slightly





# MR11



Order code	Description	ANSI code	Watts (W)	Base	Volts (V)	Colour temp. (K)	Beam angle (°)	CBCP*	Average life (hrs)	MOL** (in.) (mm)	Case Qty
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## MR11 with Cover Glass 24 V

15382	20MR11CG/NFL/24V FTC EYE	FTC	20	GZ4	24	2 850	22	1 100	2 000	1.49 38	50
15383	20MR11CG/MFL/24V FTD EYE	FTD	20	GZ4	24	2 850	34	580	2 000	1.49 38	50
30463	35MR11CG/SP/24V FTE EYE	FTE	35	GZ4	24	2 900	10	4 100	2 000	1.49 38	50
15385	35MR11CG/MFL/24V FTH EYE	FTH	35	GZ4	24	2 900	35	1 100	2 000	1.49 38	50

\* Center Beam Candle Power  
\*\* Conversions may vary slightly

## Photometrics

### MR11 with Cover Glass

#### 12 watts

Beam angle: 10°

ø(m)	H(m)	E(lx)
0.17	1	1500
0.35	2	375
0.52	3	170

15473

Beam angle: 20°

ø(m)	H(m)	E(lx)
0.35	1	840
0.70	2	210
1.05	3	95

15474/15477

Beam angle: 34°

ø(m)	H(m)	E(lx)
0.59	1	480
1.19	2	120
1.78	3	55

15475

#### 20 watts

Beam angle: 10°

ø(m)	H(m)	E(lx)
0.18	1	3750
0.35	2	940
0.52	3	420

15479/15482

Beam angle: 20°

ø(m)	H(m)	E(lx)
0.35	1	1360
0.70	2	340
1.05	3	150

15480/15483

Beam angle: 34°

ø(m)	H(m)	E(lx)
0.59	1	900
1.19	2	230
1.78	3	100

15481/15484

#### 35 watts

Beam angle: 10°

ø(m)	H(m)	E(lx)
0.18	1	4200
0.35	2	1050
0.53	3	470

15485

Beam angle: 20°

ø(m)	H(m)	E(lx)
0.35	1	2350
0.70	2	590
1.06	3	260

15486/15489

Beam angle: 34°

ø(m)	H(m)	E(lx)
0.59	1	1300
1.19	2	330
1.78	3	145

15487

### MR11 Open

#### 12 watts

Beam angle: 8°

ø(m)	H(m)	E(lx)
0.14	1	1500
0.28	2	375
0.42	3	167

15406

Beam angle: 19°

ø(m)	H(m)	E(lx)
0.33	1	500
0.66	2	125
0.99	3	56

30330

Beam angle: 25°

ø(m)	H(m)	E(lx)
0.54	1	350
1.07	2	88
1.61	3	39

30331

#### 20 watts

Beam angle: 8°

ø(m)	H(m)	E(lx)
0.18	1	4200
0.35	2	1050
0.53	3	467

15407

Beam angle: 19°

ø(m)	H(m)	E(lx)
0.35	1	1450
0.70	2	363
1.05	3	161

15408

Beam angle: 28°

ø(m)	H(m)	E(lx)
0.61	1	700
1.22	2	175
1.83	3	78

15409

#### 35 watts

Beam angle: 10°

ø(m)	H(m)	E(lx)
0.18	1	6000
0.35	2	1500
0.53	3	667

15413/15416

Beam angle: 20°

ø(m)	H(m)	E(lx)
0.35	1	2500
0.70	2	625
1.05	3	278

15414

Beam angle: 29°

ø(m)	H(m)	E(lx)
0.61	1	1350
1.22	2	338
1.83	3	150

15415

### MR11 24 V with Cover Glass

#### 20 watts

Beam angle: 22°

ø(m)	H(m)	E(lx)
0.38	1	1100
0.77	2	275
1.15	3	120

15382

Beam angle: 34°

ø(m)	H(m)	E(lx)
0.59	1	580
1.19	2	145
1.78	3	65

15383

#### 35 watts

Beam angle: 10°

ø(m)	H(m)	E(lx)
0.18	1	4100
0.35	2	1020
0.52	3	455

30463

Beam angle: 35°

ø(m)	H(m)	E(lx)
0.61	1	1100
1.22	2	275
1.83	3	120

15385



# MR16 Open

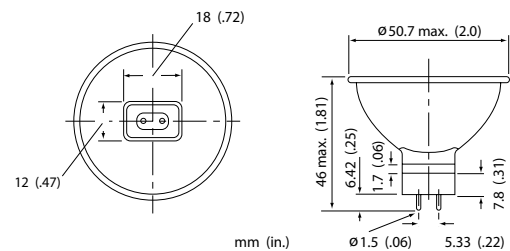
EYE's Open MR16 lamps offer consistent white colour and brightness with a special long lasting dichroic coating to keep the fixture cool, perfect for many applications.

## Features

- Crisp white light
- Long life
- Long lasting dichroic coating
- Precise optical design

## Applications

- Retail stores
- Offices
- Landscapes
- Display cases
- Residential
- Track and recessed lighting



Order code	Description	ANSI code	Watts (W)	Base	Volts (V)	Colour temp. (K)	Beam angle (°)	CBCP*	Average life (hrs)	MOL** (in.)	MOL** (mm)	Pack/Case Qty
15327	20MR16/SP ESX EYE	ESX	20	GU5.3	12	2 950	12	4 300	4 000	1.81	46	12/120
30354	20MR16/NFL BBF EYE	BBF	20	GU5.3	12	2 950	23	950	4 000	1.81	46	12/120
15328	20MR16/FL BAB EYE	BAB	20	GU5.3	12	2 950	40	525	4 000	1.81	46	12/120
30359	35MR16/SP FRB EYE	FRB	35	GU5.3	12	3 050	12	8 000	5 000	1.81	46	12/120
30362	35MR16/NFL FRA EYE	FRA	35	GU5.3	12	3 050	23	2 500	5 000	1.81	46	12/120
30363	35MR16/FL FMW EYE	FMW	35	GU5.3	12	3 050	40	1 200	5 000	1.81	46	12/120
30370	42MR16/SP EYR EYE	EYR	42	GU5.3	12	3 050	12	8 200	5 000	1.81	46	12/120
30371	42MR16/NFL EYS EYE	EYS	42	GU5.3	12	3 050	25	2 850	5 000	1.81	46	12/120
30372	42MR16/FL EYP EYE	EYP	42	GU5.3	12	3 050	40	1 200	5 000	1.81	46	12/120
15329	50MR16/SP EXT EYE	EXT	50	GU5.3	12	3 050	13	10 500	5 000	1.81	46	12/120
15330	50MR16/NFL EXZ EYE	EXZ	50	GU5.3	12	3 050	26	3 400	5 000	1.81	46	12/120
15331	50MR16/MFL ENL EYE	ENL	50	GU5.3	12	3 050	32	2 450	5 000	1.81	46	12/120
15333	50MR16/FL EXN EYE	EXN	50	GU5.3	12	3 050	40	1 750	5 000	1.81	46	12/120
15334	50MR16/SP EPZ EYE	EPZ	50	GU5.3	14	3 150	12	12 500	1 000	1.81	46	12/120
30379	50MR16/WFL FNV EYE	FNV	50	GU5.3	12	3 050	60	750	5 000	1.81	46	12/120

\* Center Beam Candle Power  
\*\* Conversions may vary slightly



# MR16 Open



## Photometrics

### MR16 Open

#### 20 watts

Beam angle: 12°

ø(m)	H(m)	E(lx)
0.21	1	4300
0.42	2	1080
0.63	3	480

15327

Beam angle: 23°

ø(m)	H(m)	E(lx)
0.24	1	949
0.42	2	240
0.63	3	107

30354

Beam angle: 40°

ø(m)	H(m)	E(lx)
0.73	1	525
1.46	2	131
2.18	3	58

15328

#### 35 watts

Beam angle: 12°

ø(m)	H(m)	E(lx)
0.21	1	8000
0.42	2	2000
0.63	3	890

30359

Beam angle: 23°

ø(m)	H(m)	E(lx)
0.40	1	2500
0.80	2	630
1.20	3	280

30362

Beam angle: 40°

ø(m)	H(m)	E(lx)
0.73	1	1200
1.46	2	300
2.19	3	130

30363

#### 42 watts

Beam angle: 12°

ø(m)	H(m)	E(lx)
0.21	1	8200
0.42	2	2050
0.63	3	910

30370

Beam angle: 25°

ø(m)	H(m)	E(lx)
0.44	1	2850
0.89	2	710
1.33	3	320

30371

Beam angle: 40°

ø(m)	H(m)	E(lx)
0.73	1	1200
1.46	2	300
2.19	3	130

30372

#### 50 watts

Beam angle: 12°

ø(m)	H(m)	E(lx)
0.21	1	8998
0.42	2	230
0.63	3	100

15334

Beam angle: 13°

ø(m)	H(m)	E(lx)
0.23	1	10500
0.46	2	2630
0.69	3	1170

15329

Beam angle: 26°

ø(m)	H(m)	E(lx)
0.46	1	3400
0.92	2	850
1.38	3	380

15330

Beam angle: 32°

ø(m)	H(m)	E(lx)
0.57	1	2450
1.14	2	610
1.71	3	270

15331

Beam angle: 40°

ø(m)	H(m)	E(lx)
0.73	1	1750
1.46	2	440
2.19	3	190

15333

Beam angle: 60°

ø(m)	H(m)	E(lx)
1.15	1	750
2.30	2	190
3.45	3	80

30379





# MR16 with Cover Glass

EYE MR16 low voltage, cover glass lamps offer consistent colour and brightness with a special long lasting dichroic reflector. The cover glass offers an additional layer of protection against UV emission.

## Features

- Crisp white light
- Long life
- Long lasting dichroic coating
- Precise optical design

## Applications

- Display cases
- Track and recessed lighting
- Restaurants and lounges
- Offices
- Showrooms
- Retail stores
- Residential

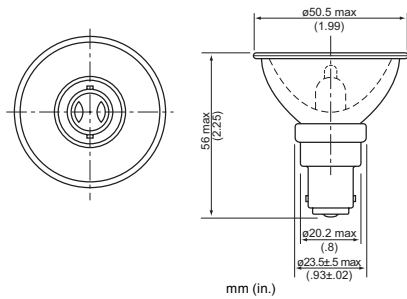
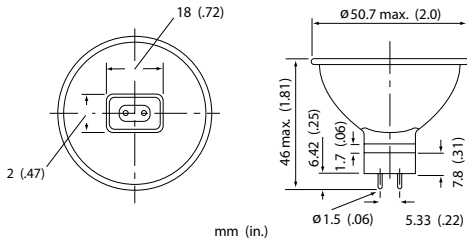
Order code	Description	ANSI code	Watts (W)	Base	Volts (V)	Colour temp. (K)	Beam angle (°)	CBCP*	Average life (hrs)	MOL** (in.) (mm)	Pack/Case Qty
15339	20MR16CG/SP ESX EYE	ESX	20	GU5.3	12	2 950	9	4 000	4 000	1.81 46	12/120
15340	20MR16CG/NFL BBF EYE	BBF	20	GU5.3	12	2 950	23	880	4 000	1.81 46	12/120
30356	20MR16CG/FL BAB EYE	BAB	20	GU5.3	12	2 950	38	500	4 000	1.81 46	12/120
30360	35MR16CG/SP FRB EYE	FRB	35	GU5.3	12	3 050	12	7 600	5 000	1.81 46	12/120
15341	35MR16CG/NFL FRA EYE	FRA	35	GU5.3	12	3 050	23	2 300	5 000	1.81 46	12/120
30366	35MR16CG/FL FMW EYE	FMW	35	GU5.3	12	3 050	38	1 100	5 000	1.81 46	12/120
30373	42MR16/FL/CG/EYP EYE	EYP	42	GU5.3	12	3 050	38	1 100	5 000	1.81 46	12/120
15342	50MR16CG/SP EXT EYE	EXT	50	GU5.3	12	3 050	13	9 800	5 000	1.81 46	12/120
15343	50MR16CG/NFL EXZ EYE	EXZ	50	GU5.3	12	3 050	26	3 200	5 000	1.81 46	12/120
30378	50MR16CG/MFL ENL EYE	ENL	50	GU5.3	12	3 050	32	2 250	5 000	1.81 46	12/120
30141	50MR16CG/FL EXN EYE	EXN	50	GU5.3	12	3 050	38	1 600	5 000	1.81 46	12/120
15344	50MR16CG/WFL FNV EYE	FNV	50	GU5.3	12	3 050	55	700	5 000	1.81 46	12/120
15345	65MR16CG/SP FPA EYE	FPA	65	GU5.3	12	3 050	13	12 000	5 000	1.81 46	12/120
15346	65MR16CG/NFL FPC EYE	FPC	65	GU5.3	12	3 050	26	4 100	5 000	1.81 46	12/120
15348	65MR16CG/FL FPB EYE	FPB	65	GU5.3	12	3 050	38	2 100	5 000	1.81 46	12/120
55600	75MR16CG/EYF EYE	EYF	75	GU5.3	12	3 050	13	12 500	5 000	1.81 46	12/120
55601	75MR16CG/EYJ EYE	EYJ	75	GU5.3	12	3 050	26	4 400	5 000	1.81 46	12/120
55602	75MR16CG/EYC EYE	EYC	75	GU5.3	12	3 050	44	2 200	5 000	1.81 46	12/120
15417	20MR16CG/DC/NSP ESX EYE	ESX	20	BA15d	12	2 950	9	4 000	4 000	2.25 56	12/120
15421	50MR16CG/DC/SP EXT EYE	EXT	50	BA15d	12	3 050	13	9 800	5 000	2.25 56	12/120
15423	50MR16CG/DC/MFL ENL EYE	ENL	50	BA15d	12	3 050	32	2 250	5 000	2.25 56	12/120

\* Center Beam Candle Power  
\*\* Conversions may vary slightly





# MR16 with Cover Glass



## Photometrics

### MR16 with Cover Glass

#### 20 watts

Beam angle: 9°

ø(m)	H(m)	E(lx)
0.16	1	4000
0.31	2	1000
0.47	3	440

15417/15339

Beam angle: 23°

ø(m)	H(m)	E(lx)
0.41	1	880
0.82	2	220
1.23	3	100

15340

Beam angle: 38°

ø(m)	H(m)	E(lx)
0.69	1	500
1.38	2	120
2.07	3	50

30356

#### 35 watts

Beam angle: 12°

ø(m)	H(m)	E(lx)
0.21	1	7600
0.42	2	1900
0.63	3	840

30360

Beam angle: 23°

ø(m)	H(m)	E(lx)
0.40	1	2300
0.80	2	580
1.20	3	260

15341

Beam angle: 38°

ø(m)	H(m)	E(lx)
0.69	1	1100
1.38	2	270
2.07	3	120

30366

#### 42 watts

Beam angle: 38°

ø(m)	H(m)	E(lx)
0.69	1	1100
1.38	2	280
2.07	3	120

30373

#### 50 watts

Beam angle: 13°

ø(m)	H(m)	E(lx)
0.23	1	9800
0.46	2	2450
0.69	3	1090

15342/15421

Beam angle: 26°

ø(m)	H(m)	E(lx)
0.46	1	3200
0.92	2	800
1.38	3	350

15343/15422

Beam angle: 32°

ø(m)	H(m)	E(lx)
0.57	1	2250
1.14	2	560
1.71	3	250

30378/15423

Beam angle: 38°

ø(m)	H(m)	E(lx)
0.69	1	1600
1.38	2	400
2.07	3	180

30141

Beam angle: 55°

ø(m)	H(m)	E(lx)
0.96	1	700
1.92	2	175
2.88	3	77

15344

#### 65 watts

Beam angle: 13°

ø(m)	H(m)	E(lx)
0.23	1	12000
0.46	2	3000
0.69	3	1330

15345

Beam angle: 26°

ø(m)	H(m)	E(lx)
0.46	1	4100
0.92	2	1030
1.38	3	460

15346

Beam angle: 38°

ø(m)	H(m)	E(lx)
0.68	1	2100
1.36	2	530
2.04	3	230

15348

#### 75 watts

Beam angle: 13°

ø(m)	H(m)	E(lx)
0.23	1	12700
0.46	2	3175
0.69	3	1411

55600

Beam angle: 26°

ø(m)	H(m)	E(lx)
0.46	1	4400
0.92	2	1100
1.38	3	489

55601

Beam angle: 44°

ø(m)	H(m)	E(lx)
0.81	1	2200
1.62	2	550
2.43	3	244

55602



# MR16 Super Soft

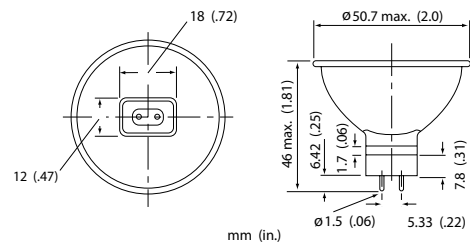
These low voltage MR16 Super Soft lamps with frosted cover glass cast soft diffused white light eliminating glare, dark spots and aberrations. They are the perfect choice for anywhere soft light is required. The soft frosted cover glass also provides protection for the lamp.

## Features

- Frosted cover glass lens
- Soft diffused light
- Dichroic reflector

## Applications

- Displays
- Museums/Art Galleries
- Retail stores
- Restaurants
- Residential
- Offices
- High gloss surfaces
- Commercial



Order code	Description	ANSI code	Watts (W)	Base	Volts (V)	Colour temp. (K)	Beam angle (°)	CBCP*	Average life (hrs)	MOL** (in.) (mm)	Pack/Case Qty
15602	20MR16/FCG/FL BAB EYE	BAB	20	GU5.3	12	2 950	43	290	4 000	1.81 46	12/120
15603	35MR16/FCG/FL FMW EYE	FMW	35	GU5.3	12	3 000	47	600	5 000	1.81 46	12/120
15604	50MR16/FCG/WFL EXN EYE	EXN	50	GU5.3	12	3 050	52	950	5 000	1.81 46	12/120

## MR16 Super Soft

\* Center Beam Candle Power  
 \*\* Conversions may vary slightly



# MR16 Aluminum Back

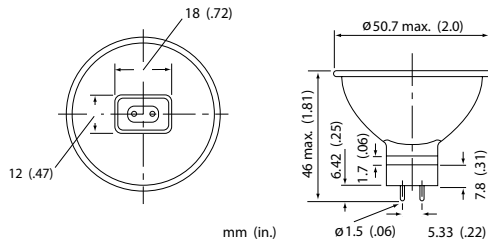
These low voltage MR16 lamps with aluminum coating reduce the temperature in the fixture and provide no backlight from the lamp. The precise optical design delivers light exactly where it is needed to showcase displayed items or areas.

## Features

- Long lasting aluminum reflector
- Consistent colour and brightness
- No backlight

## Applications

- Retail stores
- Landscapes
- Offices
- Residential
- Restaurants
- Track lighting



Order code	Description	ANSI code	Watts (W)	Base	Volts (V)	Colour temp. (K)	Beam angle (°)	CBCP*	Average life (hrs)	MOL** (in.) (mm)	Pack/Case Qty
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## MR16 Aluminum Back

30355	20MR16/FL/BAB/CG/ALUM EYE	BAB	20	GU5.3	12	2 950	34	500	5 000	1.81 46	12/120
30382	50MR16/FL/EXN/CG/ALUM EYE	EXN	50	GU5.3	12	2 950	38	1 600	5 000	1.81 46	12/120

\* Center Beam Candle Power  
\*\* Conversions may vary slightly

# Photometrics

## MR16 Aluminum Back with Cover Glass

20 watts

Beam angle: 34°

Ø(m)	H(m)	E(lx)
0.61	1	2303
1.22	2	581
1.83	3	258

30355

50 watts

Beam angle: 38°

Ø(m)	H(m)	E(lx)
0.66	1	160
1.33	2	40
1.99	3	18

30382





# MR16 10 000 Hour Life Cover Glass

EYE's MR16 10 000 hour lamps with a special dichroic coating provide extra long life while delivering consistent light and brightness. The durable dichroic coating protects heat sensitive objects. Its accurate optical design delivers light exactly where it is directed.

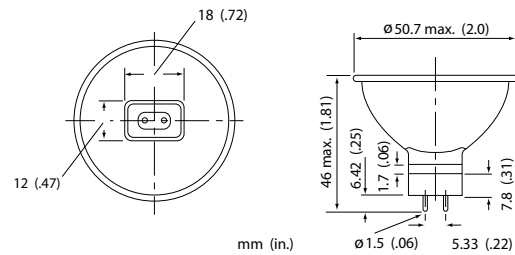
Consistency in colour and brightness means the lamp bathes displays in uniform light for maximum effect. With these lamps there are lower maintenance costs and fewer disruptions in high traffic and hard to reach areas.

## Features

- Super long life
- Long lasting dichroic coating
- Consistent light and brightness

## Applications

- Display cases
- Retail stores
- Restaurants
- Track and recessed lighting
- Offices
- Landscapes
- Hard to reach areas
- Commercial



Order code	Description	ANSI code	Watts (W)	Base	Volts (V)	Colour temp. (K)	Beam angle (°)	CBCP*	Average life (hrs)	MOL** (in.) (mm)	Pack/Case Qty
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## MR16 10 000 hours

59819	20MR16/CG/NFL/10M BBF EYE	BBF	20	GU5.3	12	2 950	23	880	10 000	1.81 46	12/120
58109	20MR16/CG/FL/10M BAB EYE	BAB	20	GU5.3	12	2 950	38	500	10 000	1.81 46	12/120
59801	20MR16/CG/SP/10M ESX EYE	ESX	20	GU5.3	12	2 950	9	4 000	10 000	1.81 46	12/120
30461	35MR16/CG/FL/10M FMW EYE	FMW	35	GU5.3	12	3 050	36	1 100	10 000	1.81 46	12/120
59802	35MR16/CG/NFL/10M FRA EYE	FRA	35	GU5.3	12	3 050	22	2 200	10 000	1.81 46	12/120
30457	50MR16/CG/SP/10M EXT EYE	EXT	50	GU5.3	12	3 050	12	9 500	10 000	1.81 46	12/120
30459	50MR16/CG/NFL/10M EXZ EYE	EXZ	50	GU5.3	12	3 050	25	3 100	10 000	1.81 46	12/120
30460	50MR16/CG/FL/10M EXN EYE	EXN	50	GU5.3	12	3 050	38	1 650	10 000	1.81 46	12/120

\* Center Beam Candle Power  
\*\* Conversions may vary slightly





# MR16 10 000 Hour Life Cover Glass



Order code	Description	ANSI code	Watts (W)	Base	Volts (V)	Colour temp. (K)	Beam angle (°)	CBCP*	Average life (hrs)	MOL** (in.) (mm)	Pack/Case Qty
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## MR16 10 000 hours UV Cut

59820	20MR16/CG/UVC/SP/10M ESX EYE	ESX	20	GU5.3	12	2 950	9	4 000	10 000	1.81 46	12/120
59821	20MR16/CG/UVC/NFL/10M BBF EYE	BBF	20	GU5.3	12	2 950	23	880	10 000	1.81 46	12/120
59822	20MR16/CG/UVC/FL/10M BAB EYE	BAB	20	GU5.3	12	2 950	38	500	10 000	1.81 46	12/120
59823	35MR16/CG/UVC/SP/10M FRB EYE	FRB	35	GU5.3	12	3 050	12	7 400	10 000	1.81 46	12/120
59824	35MR16/CG/UVC/NFL/10M FRA EYE	FRA	35	GU5.3	12	3 050	22	2 200	10 000	1.81 46	12/120
59825	35MR16/CG/UVC/FL/10M FMW EYE	FMW	35	GU5.3	12	3 050	36	1 100	10 000	1.81 46	12/120
59826	50MR16/CG/UVC/SP/10M EXT EYE	EXT	50	GU5.3	12	3 050	12	9 500	10 000	1.81 46	12/120
59827	50MR16/CG/UVC/NFL/10M EXZ EYE	EXZ	50	GU5.3	12	3 050	25	3 100	10 000	1.81 46	12/120
59828	50MR16/CG/UVC/FL/10M EXN EYE	EXN	50	GU5.3	12	3 050	38	1 650	10 000	1.81 46	12/120

## MR16 10 000 hours - UV Cut, High Colour Temperature (3 450 K)

59834	50MR16/CG/UVC/FL/10M/3450K EXN EYE	EXN	50	GU5.3	12	3 450	36	1 300	10 000	1.81 46	12/120
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\* Center Beam Candle Power  
\*\* Conversions may vary slightly



# MR16 10 000 Hour Life Cover Glass

## Photometrics

### MR16 10 000 hours life

#### 20 watts

##### Beam angle: 9°

ø(m)	H(m)	E(lx)
0.16	1	4000
0.31	2	1001
0.47	3	444

59801

##### Beam angle: 23°

ø(m)	H(m)	E(lx)
0.41	1	882
0.82	2	215
1.23	3	97

59819

##### Beam angle: 38°

ø(m)	H(m)	E(lx)
0.69	1	500
1.38	2	125
2.07	3	56

58109

#### 30 watts

##### Beam angle: 22°

ø(m)	H(m)	E(lx)
0.39	1	2195
0.78	2	549
1.17	3	237

59802

##### Beam angle: 36°

ø(m)	H(m)	E(lx)
0.65	1	1098
1.30	2	280
1.95	3	118

30461

#### 50 watts

##### Beam angle: 12°

ø(m)	H(m)	E(lx)
0.21	1	9500
0.42	2	2400
0.63	3	1050

30457

##### Beam angle: 25°

ø(m)	H(m)	E(lx)
0.44	1	3100
0.88	2	780
1.32	3	340

30459

##### Beam angle: 38°

ø(m)	H(m)	E(lx)
0.69	1	1650
1.38	2	410
2.07	3	180

30460

### MR16 10 000 hours - UV Cut, High Colour Temperature (3 450 K)

#### 50 watts

##### Beam angle: 36°

ø(m)	H(m)	E(lx)
0.65	1	1300
1.30	2	325
1.95	3	145

59834

### MR16 10 000 hours UV Cut

#### 20 watts

##### Beam angle: 9°

ø(m)	H(m)	E(lx)
0.16	1	4004
0.31	2	1001
0.47	3	441

59820

##### Beam angle: 23°

ø(m)	H(m)	E(lx)
0.41	1	882
0.82	2	215
1.23	3	97

59821

##### Beam angle: 38°

ø(m)	H(m)	E(lx)
0.69	1	495
1.38	2	129
2.07	3	54

59822

#### 35 watts

##### Beam angle: 12°

ø(m)	H(m)	E(lx)
0.21	1	7394
0.42	2	1851
0.63	3	818

59823

##### Beam angle: 22°

ø(m)	H(m)	E(lx)
0.39	1	2195
0.78	2	549
1.17	3	237

59824

##### Beam angle: 36°

ø(m)	H(m)	E(lx)
0.65	1	1098
1.30	2	280
1.95	3	118

59825

#### 50 watts

##### Beam angle: 12°

ø(m)	H(m)	E(lx)
0.21	1	9504
0.42	2	2400
0.63	3	1033

59826

##### Beam angle: 25°

ø(m)	H(m)	E(lx)
0.44	1	3100
0.88	2	775
1.32	3	344

59827

##### Beam angle: 38°

ø(m)	H(m)	E(lx)
0.69	1	1647
1.38	2	409
2.07	3	183

59828



# MR16 Coloured Cover Glass

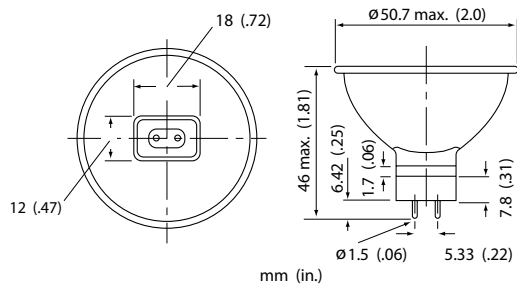
Coloured MR16 low voltage with cover glass lamps offer consistent colour and brightness with special long lasting dichroic coating. The cover glass offers an additional layer of protection against UV output.

## Features

- Crisp light
- Long life
- Precise optical design
- Vivid colours

## Applications

- Displays
- Retail stores
- Restaurants
- Lounges/Night clubs
- Decorative applications
- Landscapes



Order code	Description	Watts (W)	Base	Volts (V)	Colour temp. (K)	Beam angle (°)	CBCP*	Average life (hrs)	MOL** (in.) (mm)	Pack/Case Qty
15361	50MR16CG/SP/R EYE	50	GU5.3	12	Red	13	2 100	5 000	1.81 46	12/120
15362	50MR16CG/MFL/R EYE	50	GU5.3	12	Red	32	500	5 000	1.81 46	12/120
15364	50MR16CG/SP/Y EYE	50	GU5.3	12	Yellow	13	7 500	5 000	1.81 46	12/120
15365	50MR16CG/MFL/Y EYE	50	GU5.3	12	Yellow	32	1 800	5 000	1.81 46	12/120
15366	50MR16CG/SP/G EYE	50	GU5.3	12	Green	13	3 900	5 000	1.81 46	12/120
15367	50MR16CG/MFL/G EYE	50	GU5.3	12	Green	32	900	5 000	1.81 46	12/120
15368	50MR16CG/SP/B EYE	50	GU5.3	12	Blue	13	500	4 000	1.81 46	12/120
15369	50MR16CG/MFL/B EYE	50	GU5.3	12	Blue	32	150	5 000	1.81 46	12/120

## MR16 Coloured with Cover Glass

\* Center Beam Candle Power  
\*\* Conversions may vary slightly





# MR16 High Colour Temperature (3 450 K and 4 200 K)

With high colour temperatures, these MR16 3 450 K and 4 200 K lamps provide cool white coloured light that is perfectly suited for merchandising, accenting and enhancing the appearance of furnishings, fabrics and colours, especially reflective merchandise such as jewellery.

## Features

- Crisp white light with colour temperatures of 3 450 K and 4 200 K
- Long lasting dichroic coating
- Long life of up to 10 000 hours
- Cover glass for reduced UV

## Applications

- Museums
- Display cases
- Retail stores
- Jewellery stores
- Landscapes
- Residential
- Florists

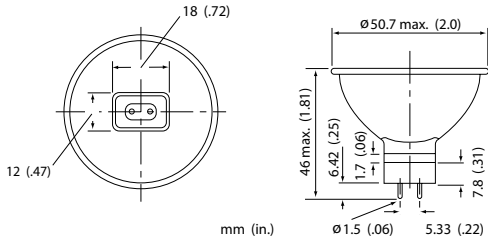
Order code	Description	ANSI code	Watts (W)	Base	Volts (V)	Colour temp. (K)	Beam angle (°)	CBCP*	Average life (hrs)	MOL** (in.) (mm)	Pack/ Case Qty
<b>MR16 4 200 K with Cover Glass</b>											
15292	20MR16/CG/FL/4200K BAB EYE	BAB	20	GU5.3	12	4 200	38	220	4 000	1.81 46	12/120
30368	35MR16/CG/FL/4200K FMW EYE	FMW	35	GU5.3	12	4 200	38	500	5 000	1.81 46	12/120
30142	50MR16/CG/FL/4200K EXN EYE	EXN	50	GU5.3	12	4 200	38	840	5 000	1.81 46	12/120
<b>MR16 3 450 K Open</b>											
15291	50MR16/FL/3450K EXN EYE	EXN	50	GU5.3	12	3 450	37	1 450	5 000	1.81 46	12/120
<b>MR16 3 450 K with Cover Glass (10 000 hours - UV Cut)</b>											
59834	50MR16/CG/UVC/FL/10M/3450K EXN EYE	EXN	50	GU5.3	12	3 450	36	1 300	10 000	1.81 46	12/120

\* Center Beam Candle Power  
\*\* Conversions may vary slightly





# MR16 High Colour Temperature (3 450 K and 4 200 K)



## Photometrics

### MR16 4 200 K with Cover Glass (10 000 hours)

20 watts

Beam angle: 38°

$\phi$ (m)	H(m)	E(lx)
0.69	1	219
1.38	2	55
2.07	3	25

15292

35 watts

Beam angle: 38°

$\phi$ (m)	H(m)	E(lx)
0.69	1	499
1.38	2	125
2.07	3	56

30368

50 watts

Beam angle: 38°

$\phi$ (m)	H(m)	E(lx)
0.69	1	839
1.38	2	210
2.07	3	93

30142

### MR16 3 450 K Open

50 watts

Beam angle: 37°

$\phi$ (m)	H(m)	E(lx)
0.67	1	958
1.34	2	237
2.01	3	108

15291

### MR16 3 450 K with Cover Glass (10 000 hours - UV Cut)

50 watts

Beam angle: 36°

$\phi$ (m)	H(m)	E(lx)
0.65	1	1300
1.30	2	325
1.95	3	145

59834



# MR16 UV Cut with Cover Glass

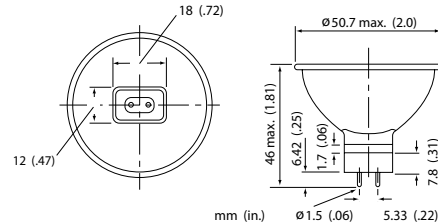
These MR16 low voltage halogen lamps with UV Cut cover glass are the perfect lighting option when delicate items are being illuminated. The UV reduction lens minimizes damage to merchandise and materials over time.

## Features

- UV-Cut lens
- Crisp white light
- Long lasting dichroic coating
- Precise optical design

## Applications

- Fabrics
- Museums
- Residential
- Art galleries
- Apparel stores



Order code	Description	ANSI code	Watts (W)	Base	Volts (V)	Colour temp. (K)	Beam angle (°)	CBCP*	Average life (hrs)	MOL** (in.) (mm)	Pack/Case Qty
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## MR16 UV Cut

15552	20MR16CG/SP/UVC ESX EYE	ESX	20	GU5.3	12	2 950	12	4 000	4 000	1.81 46	12/120
30445	20MR16CG/FL/UVC BAB EYE	BAB	20	GU5.3	12	2 950	38	500	4 000	1.81 46	12/120
30447	35MR16CG/NFL/UVC FRA EYE	FRA	35	GU5.3	12	3 050	23	2 300	5 000	1.81 46	12/120
30448	35MR16CG/FL/UVC FMW EYE	FMW	35	GU5.3	12	3 050	38	1 100	5 000	1.81 46	12/120
15553	50MR16CG/SP/UVC EXT EYE	EXT	50	GU5.3	12	3 050	13	9 800	5 000	1.81 46	12/120
15555	50MR16CG/NFL/UVC EXZ EYE	EXZ	50	GU5.3	12	3 050	26	3 200	5 000	1.81 46	12/120
15557	50MR16CG/MFL/UVC ENL EYE	ENL	50	GU5.3	12	3 050	32	2 250	5 000	1.81 46	12/120
30452	50MR16CG/FL/UVC EXN EYE	EXN	50	GU5.3	12	3 050	38	1 600	5 000	1.81 46	12/120
59834	50MR16/CG/UVC/FL/10M/3450K EXN EYE	EXN	50	GU5.3	12	3 450	36	1 300	10 000	1.81 46	12/120
15558	65MR16NSP/CG/UV/FPA EYE	FPA	65	GU5.3	12	3 050	13	12 000	5 000	1.81 46	12/120
59820	20MR16/CG/UVC/SP/10M ESX EYE	ESX	20	GU5.3	12	2 950	9	4 000	10 000	1.81 46	12/120
59821	20MR16/CG/UVC/NFL/10M BBF EYE	BBF	20	GU5.3	12	2 950	23	880	10 000	1.81 46	12/120
59822	20MR16/CG/UVC/FL/10M BAB EYE	BAB	20	GU5.3	12	2 950	38	500	10 000	1.81 46	12/120
59823	35MR16/CG/UVC/SP/10M FRB EYE	FRB	35	GU5.3	12	3 050	12	7 400	10 000	1.81 46	12/120
59824	35MR16/CG/UVC/NFL/10M FRA EYE	FRA	35	GU5.3	12	3 050	22	2 200	10 000	1.81 46	12/120
59825	35MR16/CG/UVC/FL/10M FMW EYE	FMW	35	GU5.3	12	3 050	36	1 100	10 000	1.81 46	12/120
59826	50MR16/CG/UVC/SP/10M EXT EYE	EXT	50	GU5.3	12	3 050	12	9 500	10 000	1.81 46	12/120
59827	50MR16/CG/UVC/NFL/10M EXZ EYE	EXZ	50	GU5.3	12	3 050	25	3 100	10 000	1.81 46	12/120
59828	50MR16/CG/UVC/FL/10M EXN EYE	EXN	50	GU5.3	12	3 050	38	1 650	10 000	1.81 46	12/120

## Photometrics MR16 UV Cut with Cover Glass

\* Center Beam Candle Power  
\*\* Conversions may vary slightly

### 20 watts

Beam angle: 12°

ø(m)	H(m)	E(lx)
0.21	1	4000
0.42	2	1000
0.63	3	444

15552

Beam angle: 38°

ø(m)	H(m)	E(lx)
0.66	1	500
1.33	2	125
1.99	3	56

30445

### 35 watts

Beam angle: 23°

ø(m)	H(m)	E(lx)
0.40	1	2300
0.80	2	575
1.20	3	256

30447

Beam angle: 38°

ø(m)	H(m)	E(lx)
0.66	1	1100
1.33	2	275
1.99	3	122

30448

### 50 watts

Beam angle: 13°

ø(m)	H(m)	E(lx)
0.23	1	9800
0.45	2	2450
0.68	3	1089

15553

Beam angle: 26°

ø(m)	H(m)	E(lx)
0.45	1	3200
0.91	2	800
1.36	3	356

15555

Beam angle: 32°

ø(m)	H(m)	E(lx)
0.56	1	2250
1.12	2	563
1.68	3	250

15557

Beam angle: 38°

ø(m)	H(m)	E(lx)
0.66	1	1600
1.33	2	400
1.99	3	178

30452

### 65 watts

Beam angle: 13°

ø(m)	H(m)	E(lx)
0.23	1	12000
0.45	2	3000
0.68	3	1333

15558

See page 18 for UV Cut MR16 10 000 Hour lamp Beam Spreads.



# MR16 JDR Lamps

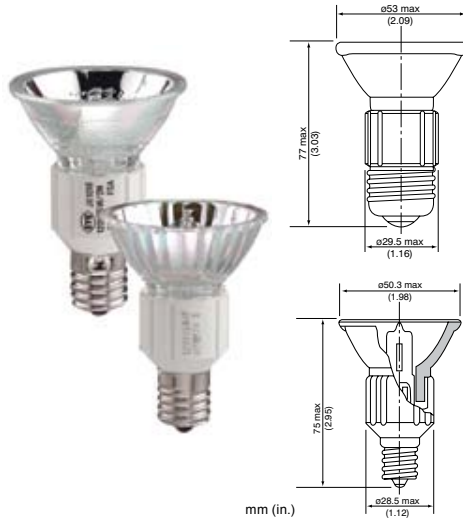
JDR cool beam reflector lamps for general lighting with a medium or intermediate base are available from 55 to 100 watts, 120 volts in a variety of beam spreads. These lamps emit a white light with colour temperatures of 3000 K or 3600 K.

## Features

- Crisp white light
- Long life
- High CRI
- Dimming capabilities

## Applications

- Residential
- Retail stores
- Museums
- Displays
- Offices
- Restaurants/Lounges



Order code	Description	ANSI code	Watts (W)	Base	Volts (V)	Colour temp. (K)	Beam angle (°)	CBCP*	Average life (hrs)	MOL** (in.) (mm)	Pack/Case Qty
30441	55MR16CG/MED/SP/120V EYE	-	55	E26	120	3000	10	4 500	3 000	3.03 77	12/120
30442	55MR16CG/MED/NFL/120V EYE	-	55	E26	120	3000	18	2 400	3 000	3.03 77	12/120
30443	55MR16CG/MED/NFL/120V EYE	-	55	E26	120	3000	28	1 500	3 000	3.03 77	12/120
30323	75MR16CG/E17/NFL/120V/36K EYE	-	75	E17	120	3600	28	1 500	3 000	2.95 75	12/120
30325	75MR16CG/E17/SP/120V EYE	-	75	E17	120	3000	10	6 300	3 000	2.95 75	12/120
30326	75MR16CG/E17/NFL/120V EYE	-	75	E17	120	3000	28	2 100	3 000	2.95 75	12/120
30436	75MR16/E17/NFL/120V FSD EYE	FSD	75	E17	120	3000	28	2 100	3 000	2.95 75	12/120
30432	75MR16/E17/SP/120V/3600K EYE	-	75	E17	120	3600	10	3 800	3 000	2.95 75	12/120
15371	75MR16/E17/NFL/120V/3600K EYE	-	75	E17	120	3600	28	1 500	3 000	2.95 75	12/120
30434	100MR16/E17/NFL/120V FSE EYE	FSE	100	E17	120	3000	18	4 500	3 000	2.95 75	12/120
15372	100MR16/E17/SP/120V/3600K EYE	-	100	E17	120	3600	10	5 700	3 000	2.95 75	12/120

\* Center Beam Candle Power  
\*\* Conversions may vary slightly

## Photometrics

### 55 watts - E26

Beam angle: 10°

Ø(m)	H(m)	E(lx)
0.17	1	3993
0.35	2	1001
0.52	3	441

30441

Beam angle: 18°

Ø(m)	H(m)	E(lx)
0.30	1	2497
0.59	2	635
0.89	3	280

30442

Beam angle: 28°

Ø(m)	H(m)	E(lx)
0.42	1	1603
0.82	2	398
1.25	3	183

30443

### 75 watts - E17 - 3 600 K

Beam angle: 10°

Ø(m)	H(m)	E(lx)
0.17	1	3800
0.35	2	947
0.52	3	420

30432

Beam angle: 28°

Ø(m)	H(m)	E(lx)
0.61	1	1496
1.22	2	635
1.83	3	280

30323/15371

### 75 watts - E17 - 3 000 K

Beam angle: 10°

Ø(m)	H(m)	E(lx)
0.17	1	6297
0.35	2	1571
0.52	3	700

30325

Beam angle: 28°

Ø(m)	H(m)	E(lx)
0.42	1	2099
0.82	2	517
1.25	3	226

30326/30436

### 100 watts - E17 - 3 000 K

Beam angle: 18°

Ø(m)	H(m)	E(lx)
0.30	1	4500
0.59	2	1119
0.89	3	495

30434

### 100 watts - E17 - 3 600 K

Beam angle: 10°

Ø(m)	H(m)	E(lx)
0.17	1	5705
0.35	2	1421
0.52	3	625

15372



# MR16 24 volt with Cover Glass

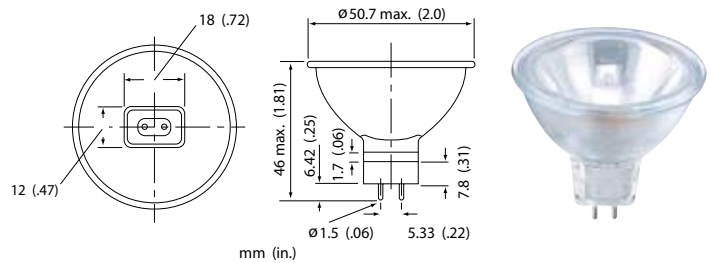
EYE's MR16 24 volt halogen lamps offer crisp white light for a wide range of applications including mining, marine, aircraft and automotive applications. Systems operating on 24 volts allow for multiple fixtures to be run on one transformer reducing both equipment and installation costs.

## Features

- Crisp white light
- 24 volt operation
- Long life
- Long lasting dichroic coating
- Precise optical design

## Applications

- 24 volt operation lighting systems
- Aircrafts
- Automotive
- Marine
- Residential



Order code	Description	ANSI code	Watts (W)	Base	Volts (V)	Colour temp. (K)	Beam angle (°)	CBCP*	Average life (hrs)	MOL** (in.) (mm)	Pack/Case Qty
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## MR16 24 Volt with Cover Glass

15386	35MR16CG/SP/24V FRB EYE	FRB	35	GU5.3	24	2 950	11	5 900	4 000	1.81 46	12/120
15387	35MR16CG/NFL/24V FRA EYE	FRA	35	GU5.3	24	2 950	23	1 700	4 000	1.81 46	12/120
15388	35MR16CG/FL/24V FMW EYE	FMW	35	GU5.3	24	2 950	40	870	4 000	1.81 46	12/120
15389	50MR16CG/SP/24V EXT EYE	EXT	50	GU5.3	24	3 050	13	8 600	4 000	1.81 46	12/120
15390	50MR16CG/NFL/24V EXZ EYE	EXZ	50	GU5.3	24	3 050	26	2 600	4 000	1.81 46	12/120
30456	50MR16CG/FL/24V EXN EYE	EXN	50	GU5.3	24	3 050	40	1 500	4 000	1.81 46	12/120

\* Center Beam Candle Power  
\*\* Conversions may vary slightly

## Photometrics

### MR16 24 V with Cover Glass

35 watts

Beam angle: 11°

ø(m)	H(m)	E(lx)
0.39	1	5900
0.78	2	1480
1.17	3	656

15386

Beam angle: 23°

ø(m)	H(m)	E(lx)
0.41	1	1700
0.81	2	425
1.22	3	189

15387

Beam angle: 40°

ø(m)	H(m)	E(lx)
0.73	1	870
1.46	2	218
2.19	3	97

15388

50 watts

Beam angle: 13°

ø(m)	H(m)	E(lx)
0.23	1	8600
0.45	2	2150
0.68	3	956

15389

Beam angle: 26°

ø(m)	H(m)	E(lx)
0.46	1	2600
0.92	2	650
1.39	3	289

15390

Beam angle: 40°

ø(m)	H(m)	E(lx)
0.73	1	1500
1.46	2	375
2.19	3	167

30456





# Double Envelope JT

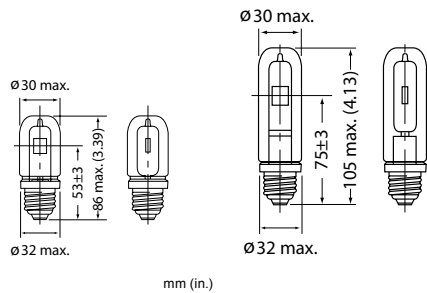
JT halogen lamps deliver crisp white light, reduce UV emissions and enable easy handling due to hard glass outer jacket.

## Features

- Crisp white light
- Compact design
- Hard glass outer jacket surrounding capsule
- Reliable long life

## Applications

- Lounges
- Museums
- Retail stores
- Furniture
- Restaurants
- Residential
- Floor and table lamps
- Wall sconces



mm (in.)



Order code	Description	Watts (W)	Base	Volts (V)	Colour temp. (K)	Initial lumens (lm)	Average life (hrs)	MOL** (in.) (mm)	Case Qty	
<b>JT</b>										
30431	50JT10/MED/120V EYE	50	E26	120	2800	725	1500	3.39 86	20	
<b>JT Frosted</b>										
30430	50JT10/F/MED/120V EYE	50	E26	120	2800	690	1500	3.39 86	20	
30393	75JT10/F/MED/120V EYE	75	E26	120	2850	1050	1500	3.39 86	20	
30395	100JT10/F/MED/120V EYE	100	E26	120	2900	1520	1500	3.39 86	20	

\*\* Conversions may vary slightly



# Single Ended JD

These lamps provide crisp white light and long reliable life.

## Features

- Crisp white light
- Consistent colour and brightness
- Reliable long life

## Applications

- Display cases
- Museums
- Restaurants
- Marine/boat applications
- Lounges
- Retail Stores

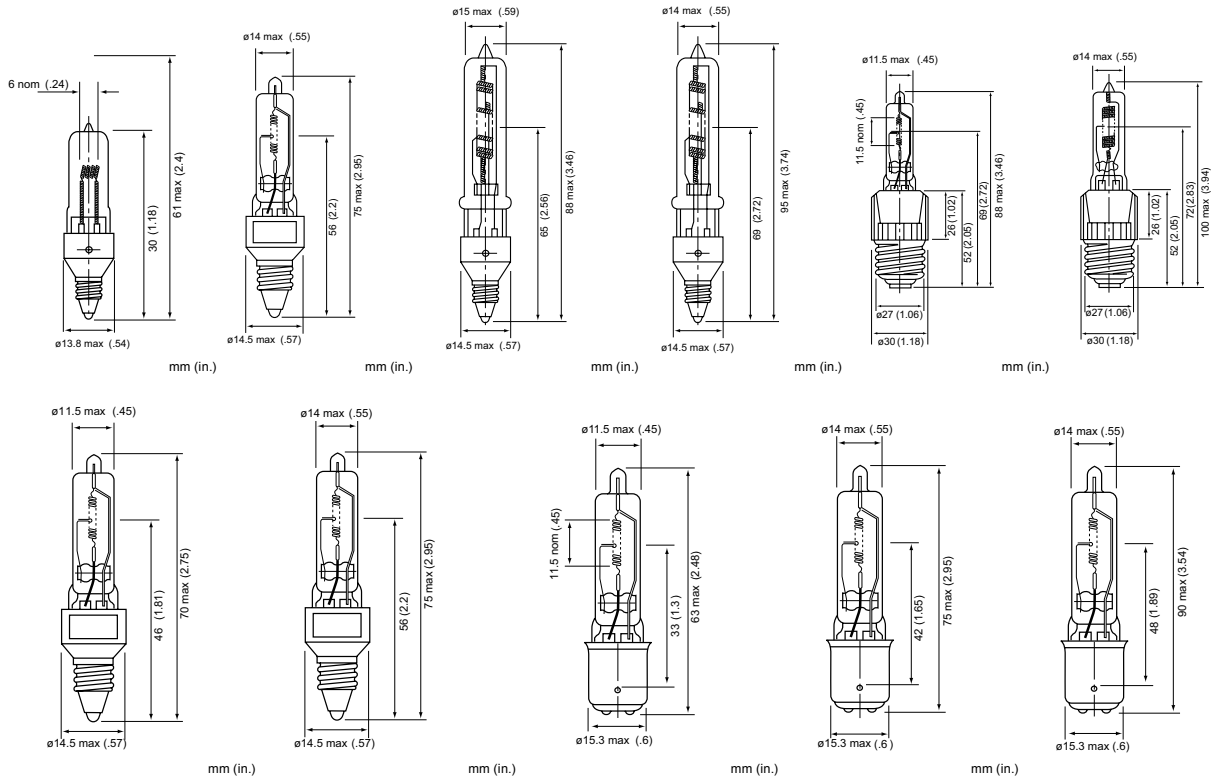


Order code	Description	ANSI code	Watts (W)	Base	Volts (V)	Colour temp. (K)	Initial lumens (lm)	Average life (hrs)	MOL** (in.) (mm)	Case Qty
<b>JD E10 Base</b>										
30315	75Q/CL/MS/28V EYE	-	75	E10	28	2 950	1 350	2 000	2.40 61	50
<b>JD E14 Base</b>										
30303	75Q/CL/E14/130V EYE	-	75	E14	130	2 850	1 150	1 500	2.95 75	50
30298	100Q/CL/E14/130V EYE	-	100	E14	130	2 850	1 600	1 500	2.95 75	50
30299	150Q/CL/E14/130V EYE	-	150	E14	130	2 900	2 400	2 000	2.95 75	50
30301	250Q/CL/E14/130V EYE	-	250	E14	130	2 950	4 500	2 000	3.46 88	50
30302	500Q/CL/E14/130V EYE	-	500	E14	130	2 950	9 500	2 000	3.74 95	50
<b>JD E27 Base</b>										
15432	150QCL/MED/130V EYE	-	150	E27	130	2 900	2 400	2 000	3.46 88	20
30300	250Q/CL/MED/130V EYE	-	250	E27	130	2 950	4 500	2 000	3.94 100	20
<b>JD Frosted E27 Base</b>										
58997	100Q/F/MED/130V EYE	-	100	E27	130	2 850	1 520	2 000	3.46 88	20
<b>JD Mini Can Base</b>										
30213	50Q/CL/MC/130V EYE	-	50	E11	130	2 900	725	2 000	2.75 70	50
30250	75Q/CL/MC/130V EYE	-	75	E11	130	2 900	1 150	2 000	2.75 70	50
30219	100Q/CL/MC/130V EYE	ESN	100	E11	130	2 900	1 600	2 000	2.75 70	50
30225	150Q/CL/MC/130V EYE	ETG	150	E11	130	2 900	2 800	2 000	2.75 70	50
30231	250Q/CL/MC/130V EYE	EHT	250	E11	130	2 900	4 500	2 000	2.95 75	50
30237	400Q/CL/MC/130V EYE	-	400	E11	130	2 900	8 250	2 000	3.74 95	50
30242	500Q/CL/MC/130V EYW EYE	EYW	500	E11	130	2 900	9 500	2 000	3.74 95	50
<b>JD Frosted Mini Can Base</b>										
30254	75Q/F/MC/130V EYE	-	75	E11	130	2 900	1 050	2 000	2.75 70	50
15435	150Q/F/MC/130V EYE	ETH	150	E11	130	2 900	2 660	2 000	2.75 70	50
30233	250Q/F/MC/130V EYE	ESM	250	E11	130	2 900	4 750	2 000	3.46 88	50
30235	400Q/F/MC/130V EYE	-	400	E11	130	2 900	7 840	2 000	3.74 95	50
30244	500Q/F/MC/130V EYV EYE	EYV	500	E11	130	2 900	9 930	2 000	3.74 95	50
<b>JD Mini Can Base - High Voltage</b>										
30307	250Q/CL/MC/220/230V EYE	-	250	E11	230	2 900	4 500	2 000	3.46 88	50
15448	250Q/CL/MC/240/250V EYE	-	250	E11	250	2 900	4 500	2 000	3.46 88	50
15461	500Q/CL/MC/220/230V EYE	-	500	E11	230	2 950	9 500	2 000	3.74 95	50

\*\* Conversions may vary slightly



# Single Ended JD



Order code	Description	Watts (W)	Base	Volts (V)	Colour temp. (K)	Initial lumens (lm)	Average life (hrs)	MOL** (in.) (mm)	Case Qty
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## JD DC Base

30212	50Q/CL/DC/130V EYE	50	BA15d	130	2 850	725	2 000	2.48 63	50
30214	75Q/CL/DC/130V EYE	75	BA15d	130	2 850	1 200	2 000	2.48 63	50
30249	75Q/CL/DC/28V EYE	75	BA15d	28	2 850	1 350	2 000	2.40 61	50
30218	100Q/CL/DC/130V EYE	100	BA15d	130	2 850	1 600	2 000	2.48 63	50
15430	150Q/CL/DC/130V EYE	150	BA15d	130	2 850	2 400	2 000	2.48 63	50
15445	250Q/CL/DC/130V EYE	250	BA15d	130	2 900	4 500	2 000	2.95 75	50
30306	250Q/CL/DC/220/230V EYE	250	BA15d	230	2 900	4 500	2 000	2.95 75	50
15450	400Q/CL/DC/130V EYE	400	BA15d	130	2 900	7 600	2 000	3.54 90	50
30241	500Q/CL/DC/130V EYE	500	BA15d	130	2 950	9 500	2 000	3.54 90	50

## JD Frosted DC Base

15472	75Q/F/DC/130V EYE	75	BA15d	130	2 850	1 150	2 000	2.48 63	50
30220	100Q/F/DC/130V EYE	100	BA15d	130	2 850	1 550	2 000	2.48 63	50
30226	150Q/F/DC/130V EYE	150	BA15d	130	2 850	2 300	2 000	2.48 63	50
15446	250Q/F/DC/130V EYE	250	BA15d	130	2 900	4 300	2 000	2.95 75	50
15459	500Q/F/DC/130V EYE	500	BA15d	130	2 950	9 930	2 000	3.54 90	50

\*\* Conversions may vary slightly



# Single Ended JC

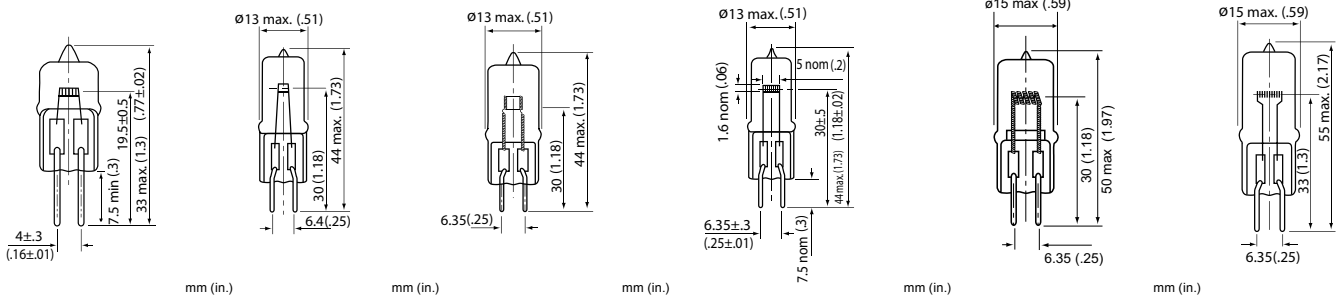
These lamps provide crisp white light and long reliable life.

## Features

- Crisp white light
- Consistent colour and brightness

## Applications

- Display cases
- Museums
- Restaurants
- Retail stores
- Furniture
- Lounges



Order code	Description	Watts (W)	Base	Volts (V)	Colour temp. (K)	Initial lumens (lm)	Average life (hrs)	MOL** (in.) (mm)	Case Qty
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### JC Bi Pin - G4 base

30275	10QT3/G4/6V EYE	10	G4	6	2 850	120	2 000	1.30 33	20
30276	20QT3/G4/6V EYE	20	G4	6	2 850	300	2 000	1.30 33	20
30262	20QT3/G4/12V EYE	20	G4	12	2 850	330	2 000	1.30 33	20

### JC Bi Pin - G1/G6.35 base

30264	30QT3/G6.35/12V EYE	30	G6.35	12	2 900	470	2 000	1.73 44	20
15544	150QT4/G6.35/24V/2000HR EYE	150	G6.35	24	3 000	3 000	2 000	1.97 50	20
15607	100QT3/G6.35/24V EYE	100	G6.35	24	2 900	1 800	2 000	1.73 44	20
15605	JCD150WL/G1 EYE	150	G1	120	3 100	3 300	300	1.97 50	20
15608	JCD250WL/G1 EYE	250	G1	120	3 100	5 750	300	1.97 50	20
15534	JC24V250W20H/G1 EYE	250	G1	24	3 000	4 400	2 000	1.73 44	20

### JC Bi Pin - G2/GY6.35 base

30261	JC12V20W20H/G2 EYE	20	G2	12	2 850	280	2 000	1.73 44	20
30266	35QT3/GY6.35/12V EYE	35	GY6.35	12	2 900	560	2 000	1.73 44	20
30269	50QT3/GY6.35/12V EYE	50	GY6.35	12	3 000	950	2 000	1.73 44	20
30271	75QT3/GY6.35/12V EYE	75	GY6.35	12	3 000	1 420	2 000	1.73 44	20
30274	JC24V300W/G2 EYE	300	G2	24	3 400	9 900	50	2.17 55	20

\*\* Conversions may vary slightly





# Double Ended J

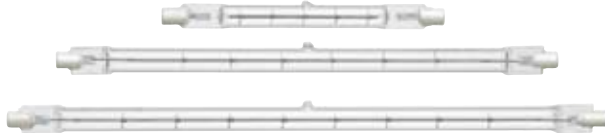
These lamps provide crisp white light and long reliable life.

## Features

- Crisp white light
- Consistent colour and brightness

## Applications

- Floor lamps
- Flood lights
- Sconces
- Bathbar fixtures

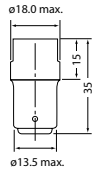


Order code	Description	ANSI code	Watts (W)	Base	Volts (V)	Initial lumens (lm)	Average life (hrs)	MOL** (in.) (mm)	Pack/Case Qty	
<b>T3</b>										
15499	100QT3/CL/120V/80MM EYE	-	100	R7s	120	1 500	2 000	3.11 79	12/144	
15498	100QT3/CL/130V/80MM EYE	-	100	R7s	130	1 500	2 000	3.11 79	12/144	
15507	150QT3/CL/130V/80MM EYE	-	150	R7s	130	2 400	2 000	3.11 79	12/144	
15511	200QT3/CL/130V/80MM EYE	-	200	R7s	130	3 200	2 000	3.11 79	12/144	
15514	250QT3/CL/130V/80MM EYE	-	250	R7s	130	4 000	2 000	3.11 79	12/144	
15497	100QT3/CL/130V/119MM EYE	-	100	R7s	130	1 400	2 000	4.69 119	12/144	
15506	150QT3/CL/130V/119MM EYE	-	150	R7s	130	2 250	2 000	4.69 119	12/144	
15509	200QT3/CL/119MM EYE	-	200	R7s	120	3 200	2 000	4.69 119	12/144	
15510	200QT3/CL/130V/119MM EYE	-	200	R7s	130	3 200	2 000	4.69 119	12/144	
15513	250QT3/CL/119MM EYE	EHZ	250	R7s	120	4 500	2 000	4.69 119	12/144	
15515	300QT3/CL/119MM EHM EYE	EHM	300	R7s	120	5 700	2 000	4.69 119	12/144	
15516	300QT3/CL/130V/119MM EYE	-	300	R7s	130	5 700	2 000	4.69 119	12/144	
15521	500QT3/CL/119MM FCL EYE	FCL	500	R7s	120	10 000	2 000	4.69 119	12/144	
15522	500QT3/CL/130V/119MM DVS EYE	DVS	500	R7s	130	10 000	2 000	4.69 119	12/144	
15492	1000QT3/CL/190MM EYE	-	1 000	R7s	120	21 000	2 000	7.48 190	12/144	
15527	750QT3/CL/190MM EYE	-	750	R7s	120	15 000	2 000	7.48 190	12/144	
15495	1000QT3/CL/254MM EYE	-	1 000	R7s	120	21 000	2 000	10.00 256	12/144	
15500	1500QT3/CL/254MM EYE	-	1 500	R7s	120	33 000	2 000	10.00 256	12/144	
<b>T3 High Voltage</b>										
15523	500QT3/CL/220V/119MM EYE	-	500	R7s	220	9 500	2 000	4.69 119	12/144	
15524	500QT3/CL/240V/119MM EYE	-	500	R7s	240	9 500	2 000	4.69 119	12/144	
15493	1000QT3/CL/220/230V/190MM EYE	-	1 000	R7s	220	21 000	2 000	7.48 190	12/144	
15494	1000QT3/CL/240V/190MM EYE	-	1 000	R7s	240	21 000	2 000	7.48 190	12/144	
15496	1000QT3/CL/240V/254MM EYE	-	1 000	R7s	240	21 000	2 000	10.00 256	12/144	
15503	1500QT3/CL/240V/254MM EYE	DYD	1 500	R7s	240	33 000	2 000	10.00 256	12/144	

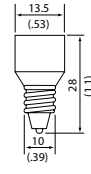
\*\* Conversions may vary slightly

# Base Type and Filament

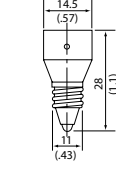
## Base Type



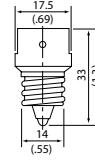
BD, BA15d



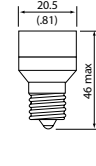
E10 (M1)  
Mini Screw



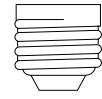
E11 (MC) (M2)  
Mini-Candelabra



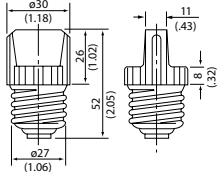
E14 (M7)  
European Mini-Candelabra



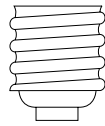
E17  
Intermediate



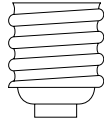
E26/25  
Medium



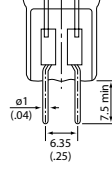
E27 (E27/30, E2)



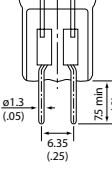
E39/41  
Mogul



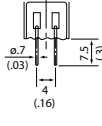
E40



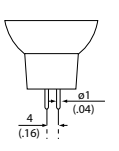
G6.35 (G1)



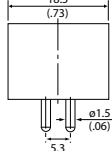
GY6.35 (G2)



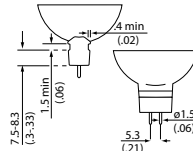
G4



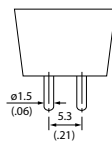
GZ4



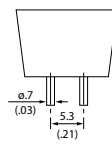
G5.3 (A1)



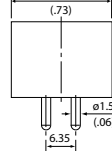
GU5.3



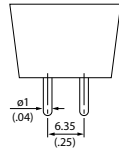
GX5.3 (G2)



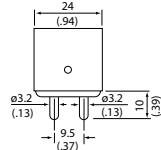
GY5.3



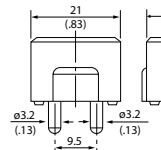
G6.35-1.5 (A2)



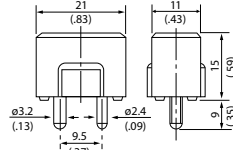
GZ6.35 (G1)



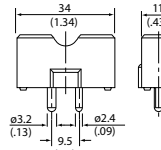
G9.5



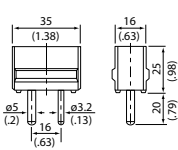
GX9.5



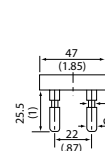
GY9.5 (B)



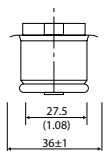
GY9.5 (C3)



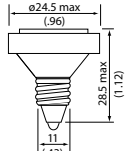
GY16



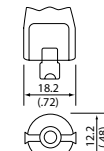
G22



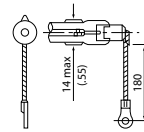
P28s



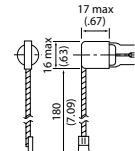
Special E11  
(M5)



Recessed  
Single Contact

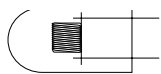


R7s Wire Lead

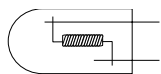


Wire Lead

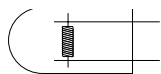
## Filament Designation



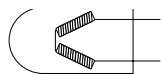
C-Bar-6



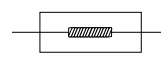
C-8  
CC-8



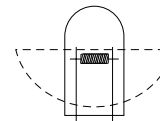
C-6  
CC-8



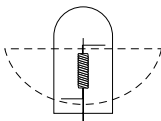
CC-2V



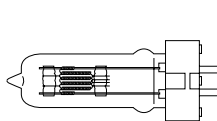
C-8  
CC-8



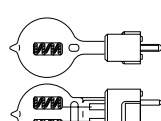
C-6  
CC-6



C-8  
CC-8



C-13D

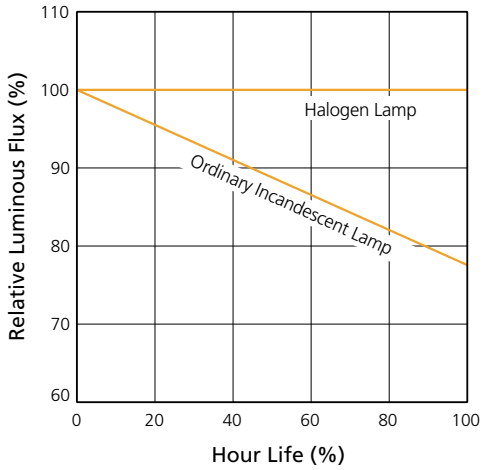


2CC-8

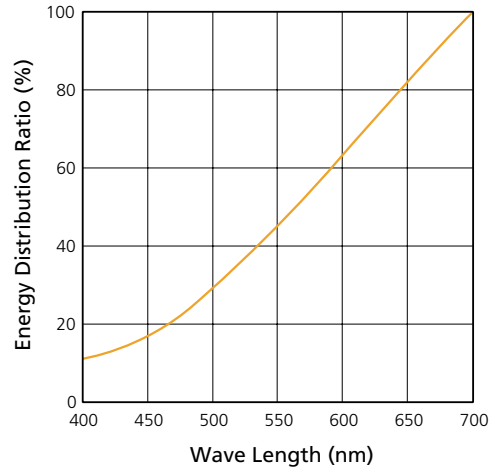
C: Single Cell Filament Wire  
 CC: Coiled Cell Filament Wire  
 All measurements shown as mm (in) unless otherwise noted.

# Technical Information

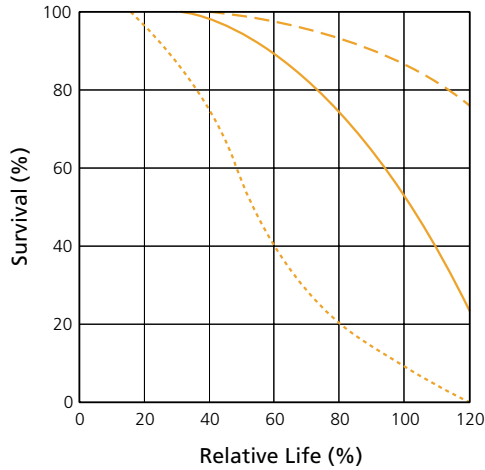
## Lumen Maintenance Curve



## Spectral Energy Distribution

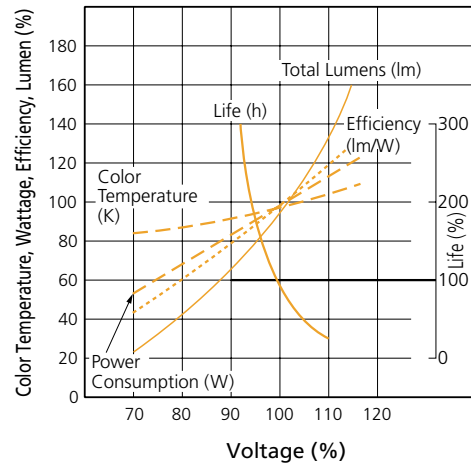


## Expected Life v.s. Line Voltage



- 95% of rated line volts
- Rated line volts
- 105% of rated line volts

## Voltage Fluctuation Characteristics of Halogen Lamps



This diagram shows average figures of common characteristics of halogen lamps. Figures may vary according to type of halogen lamp.



by



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