

MR-16 REFLECTOR LAMP

WHITESTAR[™] SERIES



WHITESTAR™ 4200K - 6500K HIGH COLOR TEMPERATURE MR-16 FOR GENERAL LIGHTING

The Whitestar[™] high color temperature series of lamps were designed to provide a balanced, full spectrum MR-16 for display and task lighting. These high color temperature lamps project a high luminous intensity with low ultraviolet and infrared emissions to protect artwork and valuable merchandise.

Whitestar[™] lamps have a correlated color temperature range of 4200K through 6500K. Whitestar[™] lamps can be specified to meet your specialty display applications.

Available in: 35

35W in flood beam spread 50W in spot, narrow flood and flood beam spreads

FEATURES & BENEFITS

- 4200K, 4700K, 5300K & 6500K Daylight Spectrum
- Consistent color Titanium Oxide reflector coating
- Integrated UV protection
- Cool beam effect
- Integrated cover glass
- Precisely focused light cone
- Homogeneous color with 4200K Metal Halide & Fluorescents



APPLICATIONS

B

The Whitestar[™] series of lamps are manufactured under ISO 9001 guidelines ensuring quality and security for the purchaser

- Retail
- Jewelry
- Textile Displays
- Color Matching
- Waterscape
- Silver and Platinum

- Museums
- Eyewear
- Crystal and Glassware
- Task Lighting
- Machine Vision
 - Health Care

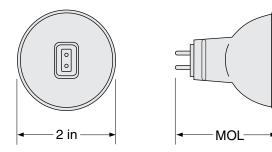
USHIO

CHARACTERISTICS & SPECIFICATIONS

WHITESTAR[™] 12 Volt - 35 & 50 Watt GU5.3 Base

Chromaticity Coordinates:

4200K:	x= 0.372	y= 0.371
4700K:	x= 0.356	y= 0.365
5300K:	x= 0.337	y= 0.345
6500K:	x= 0.315	y= 0.325



Watts (W)	USHIO Ordering Code	USHIO Lamp Code	Dimension MOL (in)	Color Temp (K)	Beam Angle	Beam Spread	Luminous Intensity (cd)	Avg Life (h)
35	1003340	FMW/FG/WS/4200	1.78	4200	36°	Flood	600	4000
35	1003341	FMW/FG/WS/5300	1.78	5300	36°	Flood	500	4000
50	1002287	EXT/FG/WS/4700	1.78	4700	12°	Spot	5000	4000
50	1002286	EXZ/FG/WS/4200	1.78	4200	24°	Narrow Flood	2000	4000
50	1002249	EXN/FG/WS/4200	1.78	4200	36°	Flood	1200	4000
50	1003226	EXT/FG/WS/6500	1.78	6500	12°	Spot	3300	4000
50	1003224	EXZ/FG/WS/5300	1.78	5300	24°	Narrow Flood	1100	4000
50	1003225	EXN/FG/WS/5300	1.78	5300	36°	Flood	600	4000



PHOTOMETRICS

WHITESTAR™

110

100

90

80

90 Badiance (00 C

50

40 30

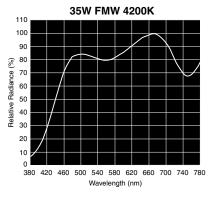
20

10

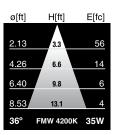
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(%)

Relative



50W EXT 4700K



H[ft]

9.8

13.1

H[ft]

3.3

6.6

9.8

13.1

EXZ 4200K

E[fc]

465

116

52

29

50W

E[fc]

186

46

21

12

50W

(%)

Relative Radiance

ø[ft]

0.69

1.38

2.10

2.79

ø[ft]

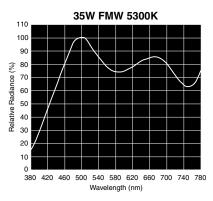
1.41

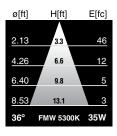
2.79

4.20

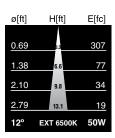
5.58

24°



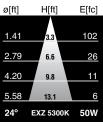


50W EXT 6500K 110 100 90 80 70 60 50 40 30 20 10



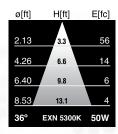
350 400 450 500 550 600 650 700 750 800

110 100 90 80 (%) 70 Radiance 60 50 Relative 40 30 20 10 0

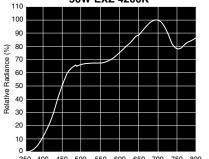


350 400 450 500 550 600 650 700 750 800 Wavelength (nm)

50W EXN 5300K 110 100 90 80 Relative Radiance (%) 70 60 50 40 30 20 10 0 350 400 450 500 550 600 650 700 750 800 Wavelength (nm)

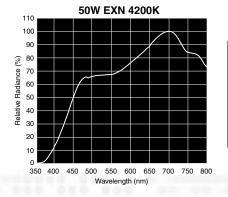


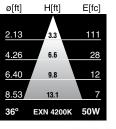
12° EXT 4700K 350 400 450 500 550 600 650 700 750 800 50W EXZ 4200K



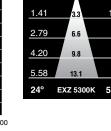
Wavelength (nm)

350 400 450 500 550 600 650 700 750 800 Wavelength (nm)





Wavelength (nm) 50W EXZ 5300K



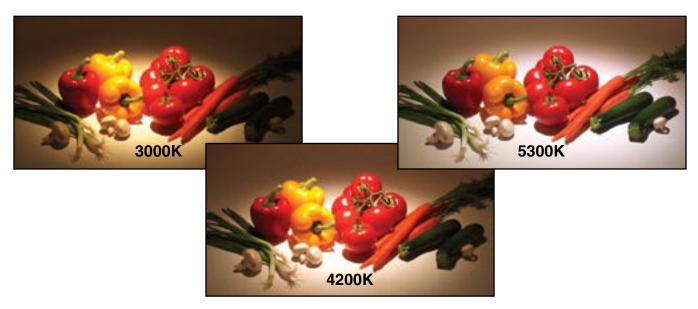
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USHIO

WHITESTARTM

The right light can make all of the difference between browsing and buying

Whitestar[™] MR-16 lamps from USHIO utilize Titanium Oxide hard coatings on the reflector to maintain consistent color from lamp to lamp and throughout the life of the lamp. Harmful UV light is reduced through a special doping process of the quartz envelope. A proprietary dichroic coating of the front glass reduces the yellow light thereby enhancing the blue and white light spectrum in 4200K, 4700K, 5300K, and 6500K lamps.





The daylight spectrum of Whitestar[™] lamps brings out the brilliance, fire and scintillation of diamonds. White metals such as Platinum and Silver display their luminescence under the light of Whitestar[™] lamps. Sapphire color saturation will be pure and vivid and tones will be balanced.

Form No. S-MR16WS/R-0607: The specifications on this sheet supercede all previously published specifications and may be subject to change for design and specification improvement without prior notice.



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