

MR-16 SYNERGY™ SERIES

- 80% Energy Savings vs. Halogen MR-16
 - Long Life 50,000 Hours Average Life
 - Replacement for Halogen MR-16
 - Dimmable
- Low Voltage 12 Volts
 - Cool Beam – Cool Operation
 - No UV, IR or Mercury
 - Lead Free, RoHS Compliant

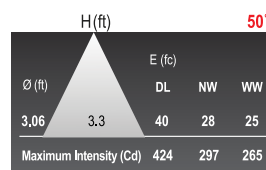
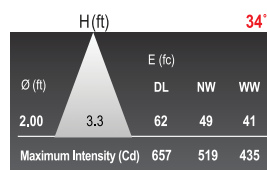
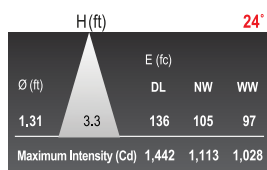
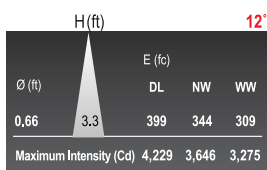
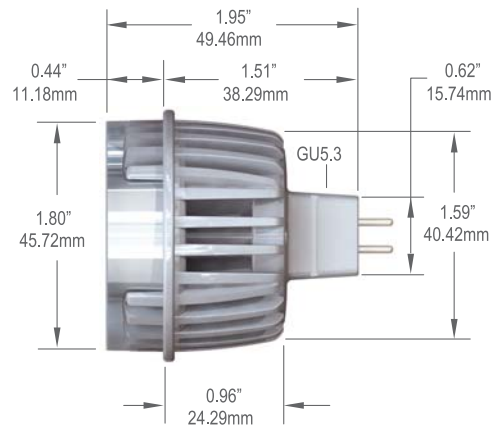
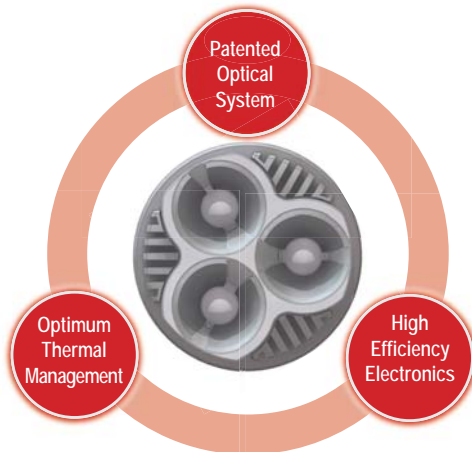
Please see Safety and Handling Instructions on page 90.

Watts	Ushio Ordering Code	Ushio Lamp Code	Dimension		Color Temp K	Beam		Avg Life h	Burn Position	Case Qty
			MOL (A)	CRI		Angle	Spread			
SYNERGY™, LED Reflector 2-Pin Base – GU5.3										
4	1003601	SYNERGY LED MR16, SP12, DL	1.95	70	6500	12°	Spot	50000	Univ	24
4	1003602	SYNERGY LED MR16, NFL24, DL	1.95	70	6500	24°	Narrow Flood	50000	Univ	24
4	1003603	SYNERGY LED MR16, FL34, DL	1.95	70	6500	34°	Flood	50000	Univ	24
4	1003604	SYNERGY LED MR16, WFL50, DL	1.95	70	6500	50°	Wide Flood	50000	Univ	24
4	1003609	SYNERGY LED MR16, SP12, NW	1.95	80	4200	12°	Spot	50000	Univ	24
4	1003610	SYNERGY LED MR16, NFL24, NW	1.95	80	4200	24°	Narrow Flood	50000	Univ	24
4	1003611	SYNERGY LED MR16, FL34, NW	1.95	80	4200	34°	Flood	50000	Univ	24
4	1003612	SYNERGY LED MR16, WFL50, NW	1.95	80	4200	50°	Wide Flood	50000	Univ	24
4	1003605	SYNERGY LED MR16, SP12, WW	1.95	80	3100	12°	Spot	50000	Univ	24
4	1003606	SYNERGY LED MR16, NFL24, WW	1.95	80	3100	24°	Narrow Flood	50000	Univ	24
4	1003607	SYNERGY LED MR16, FL34, WW	1.95	80	3100	34°	Flood	50000	Univ	24
4	1003608	SYNERGY LED MR16, WFL50, WW	1.95	80	3100	50°	Wide Flood	50000	Univ	24

All dimensions shown in inches unless otherwise noted.

From the world leader in MR-16 lamp technology comes the world's most efficient solid state LED MR-16 lamp. Synergy's™ state-of-the-art technology allows this 4W LED MR-16 to directly replace 20-25W halogen MR-16s. No false claims, just outstanding performance that yields 80% energy savings. In fact, Synergy™ is the first LED MR-16 lamp to meet the efficiency requirements of California's stringent Title 24 regulations.

Rated at 50,000 hours, Synergy™ has a true life rating of more than 10 times that of standard MR-16 lamps on the market today. Synergy™ is the premium choice for those applications where frequency of lamp changes and cost of ownership are significant factors.



PEARL-LUX™ SERIES

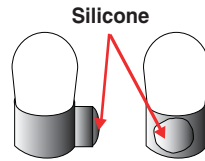
- Architectural Grade
 - Silicone Coated – IP67 Rated
 - Flexible
 - Easy to Install
- Cool Operation
 - Energy Efficient
 - No UV, IR or Mercury
 - Long Life 50,000 Hours Average Life
- Lead Free, RoHS Compliant

Please see Safety and Handling Instructions on page 90.

Watts	Ushio Ordering Code	Ushio Lamp Code	Dimensions				Viewing Angle degree	Approx Lumens lm	Color Temp K	Commercial Life h	Case Qty
			Volts V	Height	Length	Width					
PEARL-LUX™ LED STRINGS											
6	1003620	6W PEARL-LUX / WARM WHITE	12	0.65	39.37	0.31	45°	83	2700	50,000	10
6	1003621	6W PEARL-LUX / WHITE	12	0.65	39.37	0.31	45°	180	6500	50,000	10
N/A	1003622	PEARL-LUX STRAIGHT CHANNEL	N/A	0.43	39.37	0.79	N/A	N/A	N/A	N/A	10
N/A	1003623	PEARL-LUX FLEXIBLE CHANNEL	N/A	0.43	39.37	0.79	N/A	N/A	N/A	N/A	10
N/A	1003643	PEARL-LUX STR. ALUM. CHANNEL	N/A	0.43	39.37	0.79	N/A	N/A	N/A	N/A	10
N/A	1003644	PEARL-LUX FLEX ALUM. CHANNEL	N/A	0.43	39.37	0.79	N/A	N/A	N/A	N/A	10

All dimensions shown in inches unless otherwise noted.

Pearl-Lux™ architectural-grade 12V LED strings are very flexible and silicone coated. They provide limitless possibilities for a variety of general lighting and decorative applications. Pearl-Lux™ offers higher performance and more flexibility than similar LED strips, tapes and rope lighting. At only 6W per meter (3.2 feet) this energy saving long life string is IP67 rated for interior and exterior use.



INSTALLATION INFORMATION:

Power Supply Information

1. The LED strings contain no protection against short circuits, overload or overheating. Therefore, it is absolutely necessary to operate the strings on an electrically stable power supply with protection against the above mentioned safety risks.
2. The Pearl-Lux™ LED strings require a 12V DC power supply. Each LED string has a maximum load rating of 6 watts.
3. Never operate an LED load in excess of the capacity of the power supply.

Electrical Connection

1. Pearl-Lux™ LED strings are equipped with polarized wires (red – positive, black – negative). To ensure correct electrical polarity, connect the low voltage load side of the power supply to the LED strings. When finished you may use silicone, shrink tubing, electrical tape or a wire nut to properly manage and protect the contact. Incorrect electrical polarity may destroy the strings.
2. Up to 3 LED strings can be connected in series to a single power supply connection. For large installations you may connect multiple (3 string sets) in parallel.

