



Sōlarc™ ARC LAMP PRODUCTS

10 WATT LAMP AND BALLAST

GENERAL DESCRIPTION: Welch Allyn 10W Sōlarc™ lamps are specifically designed for applications under battery power. Some of these lamps have industry standard aluminum reflectors coated to have maximum reflectivity for visible applications. The following specifications illustrate reflectorized lamp performance specifications except for the M10N001 which is a single ended lamp (SEL). These lamps are available in easy to apply developers kits from www.walamp.com.



PERFORMANCE

These performance characteristics define the typical operation of this lamp at rated power – 10 Watts.

Technical Specifications @ 25°C Ambient Values are typical unless otherwise noted.	M10P001	M10P002	M10N001
Initial Luminous Flux	450 (Face Lumens)		500 (Total Lumens)
Lumen Maintenance @ 350 hours	Approx. 85%		90%
Lumen Maintenance @ 700 hours	Approx. 75%		85%
Lumen Maintenance @ 1000 hours	Approx. 70%		80%
Correlated Color Temperature	6000K		7500K
Chromaticity (x, y)	0.309, 0.332		0.297, 0.323
Beam Divergence	6°	13°	—
Center Beam Candlepower	13,000	4,100	—
Rated Median Life @ 1 hour on/15 minutes off	1000 Hours		
Warm-up Time to >90% of Rated Output	10 Seconds		
Restart Time to >90% of Rated Output	5 Seconds		
Flicker (peak to peak)	<2%		

APPLICATION INFORMATION:

Orientation.....Lamp performance is specified in horizontal orientation. Lamp may be operated in other orientations although some variation in performance will occur.

Cooling.....Lamp performance measured under laboratory. Actual performance may vary depending on application. Special attention should be paid to the lamp's operating thermal environment.

NOTE: Continuous product improvement requires that we reserve the right to change these specifications at any time. Unless specified, all data is nominal.

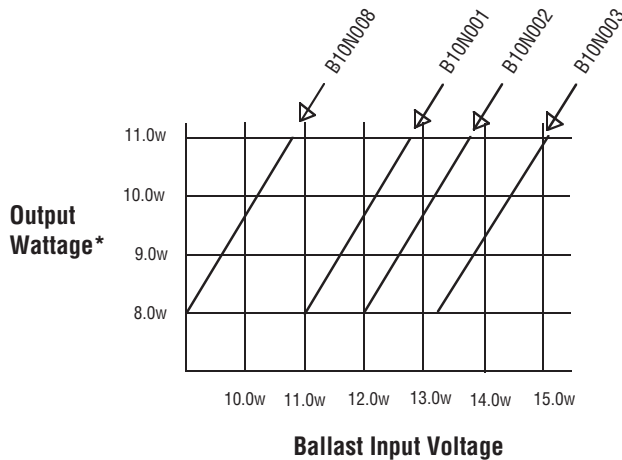


Lighting Products

4619 Jordan Road
Skaneateles Falls, NY 13153-0187
Phone: 315-685-4347
Fax: 315-685-2854
<http://www.walamp.com>

10 WATT BALLAST — Nonregulated

Technical Specifications @ 25°C Ambient Values are typical unless otherwise noted.	B10N001	B10N002	B10N003	B10N008
Application	8 Alkaline Cells	10 Cell Nicad or NMH	11 Cell Nicad or NMH	8 Cell Nicad or NMH
Input Voltage @ 10 Watts	12.0V	12.8–13.2V	14.1–14.5V	10.2V
Max. Safe Continuous Operating Voltage	12.5V	13.6V	15.0V	11.0V
Absolute Max. Instantaneous Voltage	13.0V	14.2V	15.5V	11.8V
Identifying Markings (Lead Colors) -/+	Black/White	Black/Red	Black/Blue	Black/Yellow
Absolute Max. Case Temperature (All)	90°C			
Reverse Polarity w/o Perm. Damage (All)	<1 Sec.			
Efficiency (All)	70% – 75%			
Shut Down Time (All)	3 Seconds			
Ballast Reset Time After Shutdown (All)	3 Seconds			
Nominal Starting Voltage (All)	6.0KV			



NOTES

1. It is recommended that all applications be properly fused with a 2A fuse.
2. Heat sinking the ballast will provide optimal efficiency.
3. For applications where the ballast is located 6 inches or further from the power source it is important that its wires be continuously twisted to prevent voltage spikes. Additional filtering may be needed if the distance to the power source is longer than 6 inches or the source has high impedance characteristics.

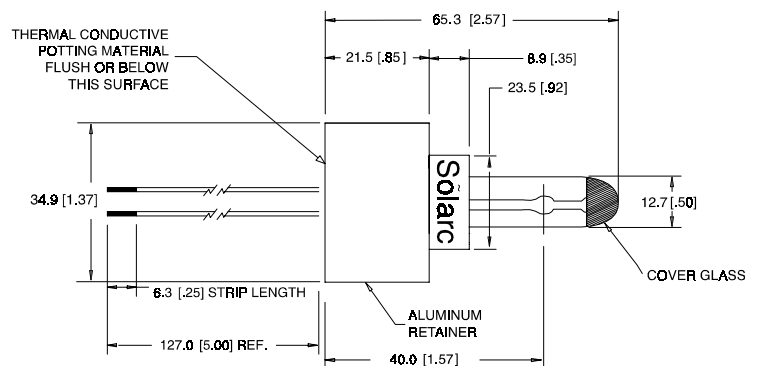
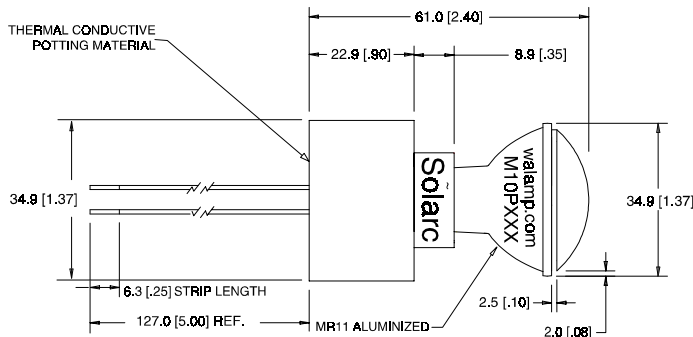
* Output wattage measured after lamp/ballast reach steady state operating temperatures.

IMPORTANT! It is not recommended to run the lamp above 11 Watts or below 8 Watts for any extended period.

PHYSICAL DESCRIPTION

For detailed dimensions request drawing.

Lamp Base..... Special Bipin
 Reflector Coating..... Aluminum
 Reflector, Parabolic..... MR-11
 Weight..... 65 Grams



All dimensions are in mm [inches]

10 Watt Lamp

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