Sōlarc® LIGHT

PARABOLIC REFLECTORIZED LAMPS

USHIO's parabolic reflectorized lamps are specifically designed for general illumination applications. These industry-standard reflectors are dichroic coated for maximum reflectivity for visible applications. With our patented Sōlarc® metal halide arc lamp technology mounted to these reflectors, the resultant illumination produces various beam divergences measured at the 50% intensity points.

Performance Specifications		
LAMP P/N	**M21P011**	**M21P021**
Output Performance		
Output (CBCP)	14,500	5,000
Beam Divergence (@ 50% Intensity)	12	20
Application Information		
Color Temperature	6,000K	
Chromaticity (x, y)	0.32, 0.32	
Median Life	750 Hours	
Warm-up Time to >90% of Rated Output	20 Seconds	
Restart Time to >90% of Rated Output	25 Seconds	
Ballast	**B22R001**	
Input Voltage	9.8 V–15 V	9.8 V–15 V
Current @ 12 VDC	2.3 A	2.3 A
Lamp Connector	**C18A003**	

Duty cycle for Rated Median Lamp Life: 21W – 1 Hr on / 15 min off. 50W – 2 Hrs. on / 15 min off

Orientation and Cooling

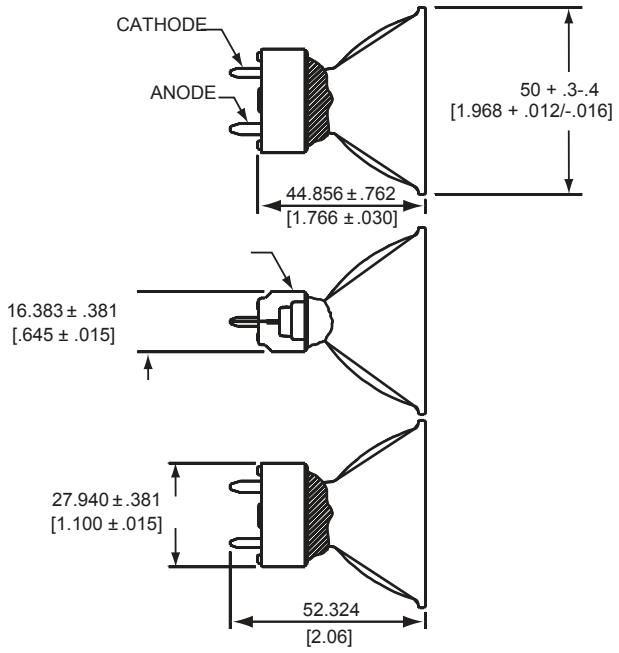
The lamp data provided was characterized in the recommended horizontal operating position. The lamp may be operated in other mounting orientations but performance may vary significantly. To maximize lamp life, the anode and cathode seal areas must be maintained at 200°C to 285°C and 100°C to 150°C, respectively.

Notes

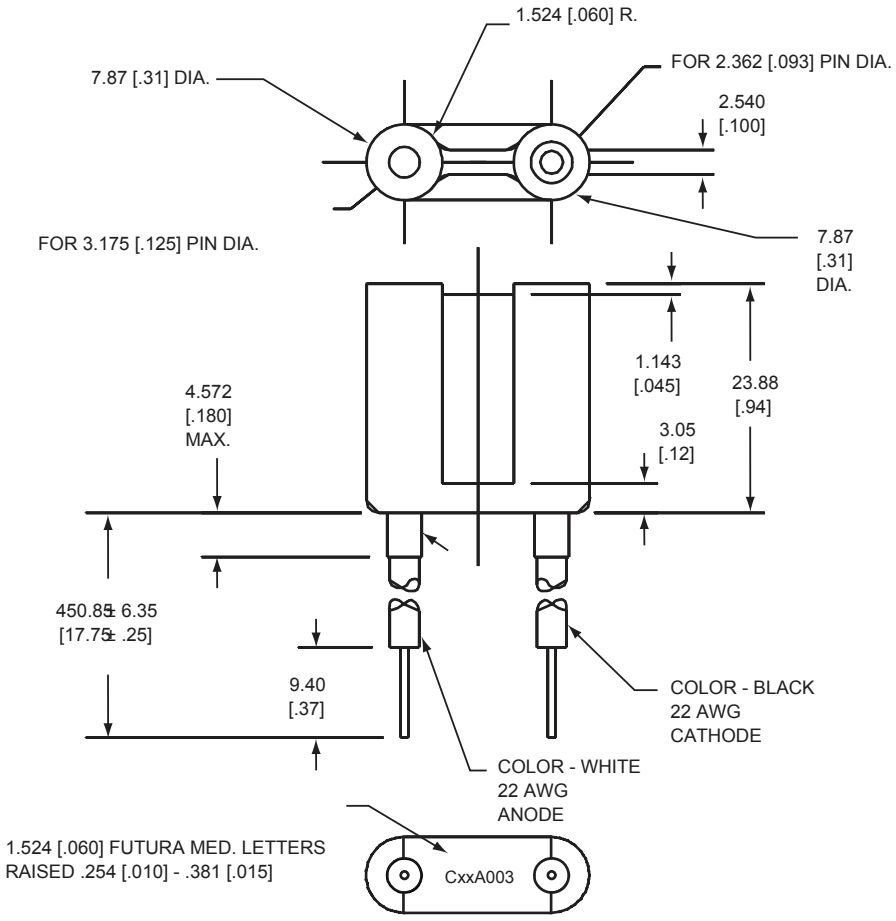
Other lamp/reflector configurations are available upon request. M21P011 has same mechanical dimensions as M21P021. See next page.

USHIO

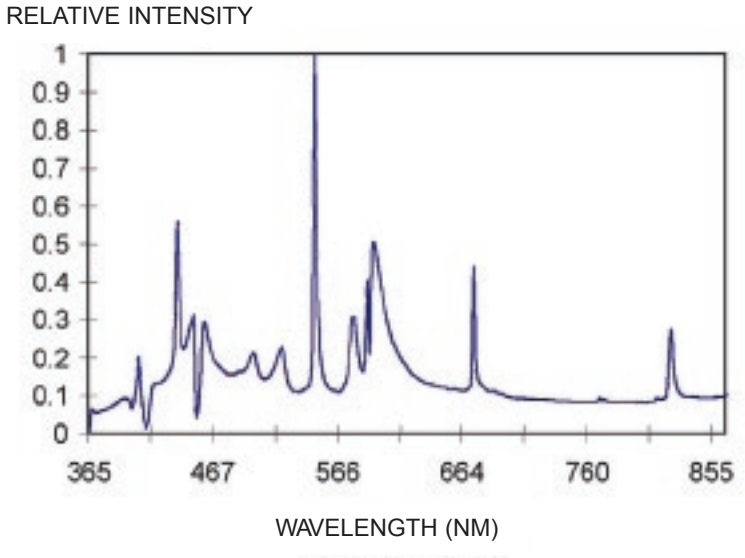
Mechanical & Output Specifications: M21P011 & M21P021 (All dimensions in mm [inches])



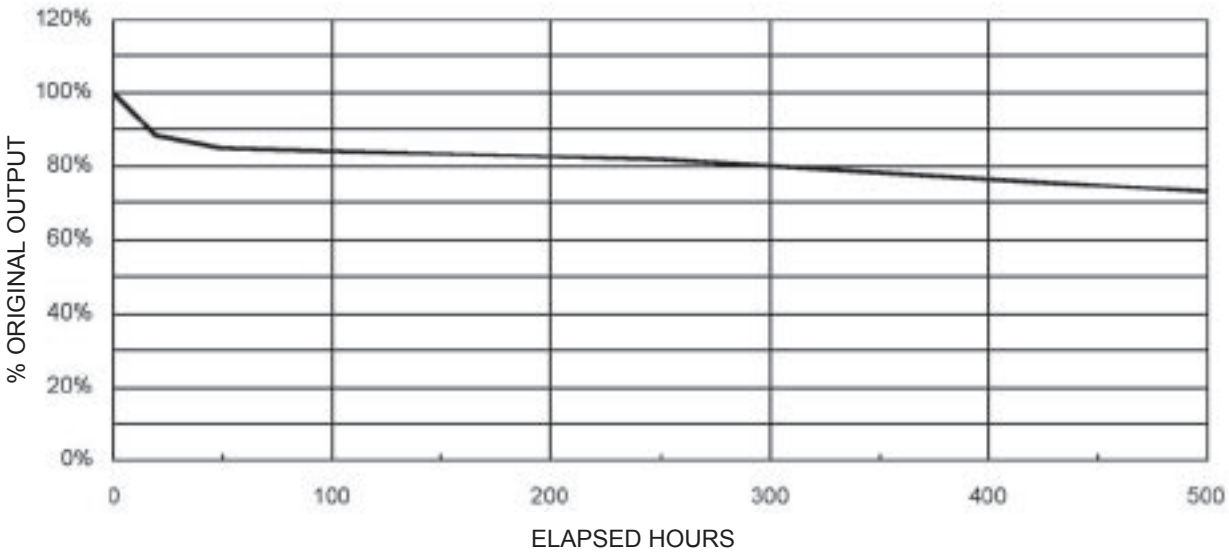
Mechanical & Output Specifications: C18A003 Connector (All dimensions in mm [inches])



Spectrum



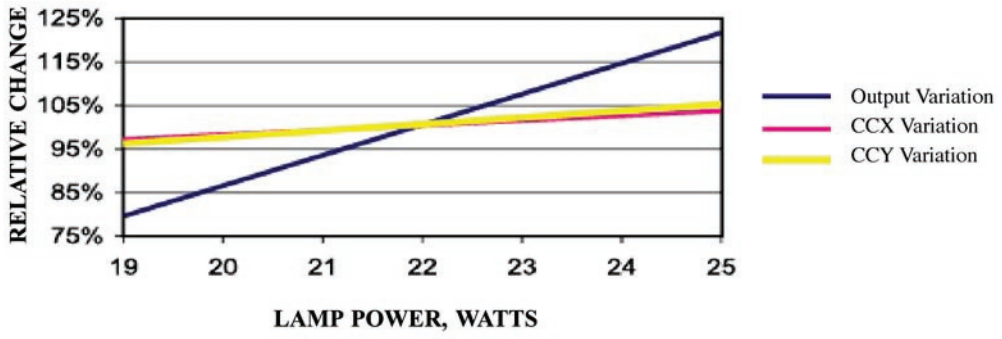
Typical Light Maintenance



Power Variations

Some medium wattage lamps may be operated on B19R, B22R and B25R series ballasts for more output options. The accompanying charts show performance trade-offs when using different ballasts.

Lamp Power Performance Trade-Offs



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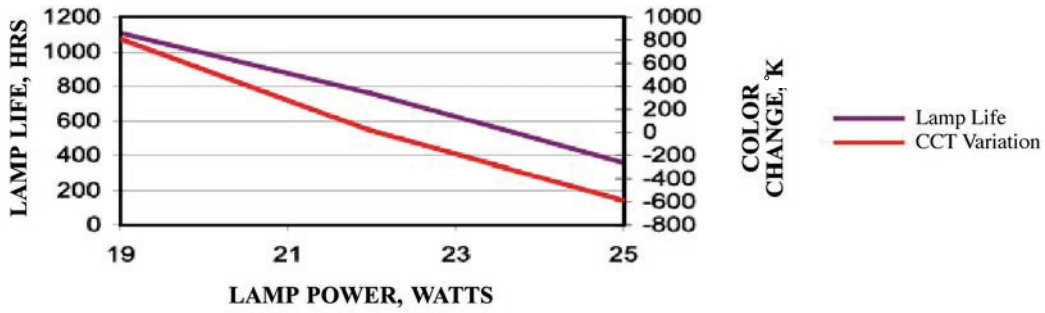

Typical Laboratory Data