

# ArcMeister UVA-Type

Ultraviolet-A Version

## Short arc lamp with reflector



ARC-Meister lamps are short arc lamps with high energetic efficiency where Xenon gas and various metallic salts form a plasma in the tube. The patented design of the arc tube makes this possible without generating high overpressure. The lamps are quasi „explosion-proof“. The innovative ceramic rods between arc tube and metal connection approaches the thermal expansion coefficients, so that mechanical tension between the different materials is nearly reduced to zero. This makes the lamps largely insusceptible to temperature changes.

The tubes can be filled with several different gases/salts so that various spectrums and varying light intensity between visible and UV light are available. The lamps deliver a wattage of between 40 und 80W and can electrically be dimmed within this range.

The lamps are equipped with an elliptic reflector which enables the connection to light guides and optical systems.

Fields of application:

- cold light sources for the use of light fibers
- analytical instruments
- industry medicine

Properties and advantages:

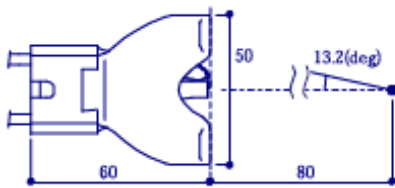
- very high luminance
- continuing spectrum in visible range
- constant colour temperature over whole working life
- stable arc
- DC operation
- hot restrike
- very long working life
- quasi „explosion-proof“ through front glass with filter effect
- arc tube protected from touch

Patents: EU 0619379 ,0650184

Technical specifications:

Mirror	50mm UV cold mirror	45mm UV cold mirror
Working Distance	80mm	Adjustable by desired lighting area
N/A	0.23	0.03
UV-ray <small>(see Notes)</small>	365nm	400 mW/cm <sup>2</sup>
	254nm	600 mW/cm <sup>2</sup>
Diameter of Focal Point	radius ± 4mm (φ 8mm)	radius ± 7.5mm (φ 15mm)

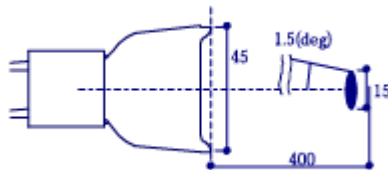
## Technical details



U56C18



- Compact UV lamp with focal point φ8mm
- Fiber input



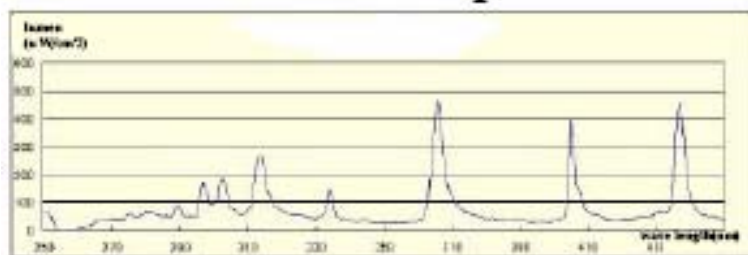
U46C18



- Compact UV lamp of direct light type
- Super compact size : 45mm



connector, designed for 30kV pulse and compatible with GE XMH60



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