

# TECHNICAL INFORMATION BULLETIN

## EYE Multi-Metal

**LAMP TYPE** : Metal Halide Lamp  
M400X/BUP/LU

### PERFORMANCE DATA

Initial luminous flux at rated wattage after 100hrs. Burning	(lm)	:	40,000
Lamp Lumen Efficacy	(lm/W)	:	100
Mean lumens at 10 hrs/start	(lm)	:	30,000
Rated average life	(hrs)	:	10,000
Warm up time	(min)	:	4
Restarting time	(min)	:	15
Correlated colour temperature	(K)	:	4,200
CIE chromaticity	x =	:	0.376
	y =	:	0.396
Colour rendering index	(Ra)	:	65
Burning Position		:	BU $\pm 15^\circ$

### ELECTRICAL CHARACTERISTICS

Nom. Lamp wattage EM	(W)	:	400
Nom. Lamp voltage EM	(V)	:	100
Nom. Lamp current EM	(A)	:	4.60
Current crest factor		:	1.8 max.
Max. starting current	(A)	:	7.50
Compatible Ballast		:	400W HPSL ballast with igniter
Min. starting voltage (RMS)	(V)	:	198
Min. starting voltage (PEAK)	(V)	:	280

### PHYSICAL DESCRIPTION

Base designation		:	E40
Bulb designation		:	BT116 (116mm Dia.)
Bulb material		:	Hard glass
Bulb finish		:	Clear
Arc tube material		:	Quartz
Mercury(Hg)Content	(mg)	:	44
Overall Length	(mm)	:	292 max.
Light Centre Length	(mm)	:	185
Effective Arc Length	(mm)	:	40
Bulb Temp. limit	( $^\circ\text{C}$ )	:	400
Base Temp. limit	( $^\circ\text{C}$ )	:	210
Eccentricity Base to bulb axis	( $^\circ$ )	:	$3^\circ$ max.
Life to 5% failures	(hr)	:	3400
Life to 10% failures (hr)	(hr)	:	5100
Life to 20% failures (hr)	(hr)	:	7200
Life to 50% failures (hr)	(hr)	:	10000
Lumen Maintenance 5000h	(%)	:	70

