

# TECHNICAL INFORMATION BULLETIN

## Mercury Lamp

**LAMP TYPE** : Mercury Lamp  
HRF1000PD

### PERFORMANCE DATA

Initial luminous flux at rated wattage after 100hrs. Burning	(lm)	:	46,000
Lamp Lumen Efficacy	(lm/W)	:	46
Mean lumens at 10 hrs/start	(lm)	:	36,800
Rated average life	(hrs)	:	16,000
Warm up time	(min)	:	12
Restarting time	(min)	:	10
Correlated colour temperature	(K)	:	4,100
CIE chromaticity	x =	:	0.375
	y =	:	0.367
Colour rendering index	(Ra)	:	40
Burning Position		:	Any

### ELECTRICAL CHARACTERISTICS

Nom. Lamp wattage EM	(W)	:	1,000
Nom. Lamp voltage EM	(V)	:	145
Nom. Lamp current EM	(A)	:	7.50
Current crest factor		:	2.0 max.
Compatible Ballast		:	IEC 60188
Min. starting voltage (RMS)	(V)	:	198
Min. starting voltage (PEAK)	(V)	:	280

### PHYSICAL DESCRIPTION

Base designation		:	E40
Bulb designation		:	R280 (280mm dia.)
Bulb material		:	Hard glass
Bulb finish		:	Aluminium coating
Arc tube material		:	Quartz
Mercury(Hg)Content	(mg)	:	107
Overall Length	(mm)	:	415 max.
Light Centre Length	(mm)	:	-
Effective Arc Length	(mm)	:	-
Bulb Temp. limit	( °C )	:	400
Base Temp. limit	( °C )	:	210
Eccentricity Base to bulb axis	( ° )	:	3° max.
Life to 5% failures	(hr)	:	5400
Life to 10% failures (hr)	(hr)	:	8200
Life to 20% failures (hr)	(hr)	:	11500
Life to 50% failures (hr)	(hr)	:	16000
Lumen Maintenance 5000h	(%)	:	82

