

TECHNICAL INFORMATION BULLETIN

EYE Ignitron

LAMP TYPE : High Pressure Sodium Lamp
NHR400/I

PERFORMANCE DATA

Initial luminous flux at rated wattage after 100hrs. Burning	(lm)	:	36,700
Lamp Lumen Efficacy	(lm/W)	:	92
Mean lumens at 10 hrs/start	(lm)	:	33,000
Rated average life	(hrs)	:	24,000
Warm up time	(min)	:	5
Restarting time	(min)	:	15MAX.
Correlated colour temperature	(K)	:	2,100
CIE chromaticity	x =	:	0.523
	y =	:	0.422
Colour rendering index	(Ra)	:	25
Burning Position		:	Any

ELECTRICAL CHARACTERISTICS

Nom. Lamp wattage EM	(W)	:	400
Nom. Lamp voltage EM	(V)	:	105
Nom. Lamp current EM	(A)	:	4.45
Current crest factor		:	1.8 max.
Max. starting current	(A)	:	7.50
Compatible Ballast		:	IEC 60662
Min. starting voltage (RMS)	(V)	:	198
Min. starting voltage (PEAK)	(V)	:	280

PHYSICAL DESCRIPTION

Base designation		:	E40
Bulb designation		:	R180 (180mm dia.)
Bulb material		:	Hard Glass
Bulb finish		:	Clear
Arc tube material		:	Alumina
Mercury(Hg)Content	(mg)	:	30.9
Overall Length	(mm)	:	320 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)	:	8200
Life to 10% failures (hr)	(hr)	:	12200
Life to 20% failures (hr)	(hr)	:	17300
Life to 50% failures (hr)	(hr)	:	24000
Lumen Maintenance 5000h	(%)	:	98.527

