

# TECHNICAL INFORMATION BULLETIN

## EYE SDX

**LAMP TYPE** : High Pressure Sodium Lamp

**NHT100FSDX**

### PERFORMANCE DATA

Initial luminous flux at rated wattage after 100hrs. Burning	(lm)	:	4,800
Lamp Lumen Efficacy	(lm/W)	:	48
Mean lumens at 10 hrs/start	(lm)	:	4,080
Rated average life	(hrs)	:	6,000
Warm up time	(min)	:	5 max.
Restarting time	(min)	:	15 approx
Correlated colour temperature	(K)	:	2,500
CIE chromaticity	x =	:	0.477
	y =	:	0.414
Colour rendering index	(Ra)	:	83
Burning Position		:	Any

### ELECTRICAL CHARACTERISTICS

Nom. Lamp wattage EM	(W)	:	100
Nom. Lamp voltage EM	(V)	:	80
Nom. Lamp current EM	(A)	:	1.53
Current crest factor		:	1.8 max.
Max. starting current	(A)	:	2.20
Min. starting voltage (RMS)	(V)	:	190
Min. starting voltage (PEAK)	(V)	:	269

### PHYSICAL DESCRIPTION

Base designation		:	E27
Bulb designation		:	T35 (35mm Dia.)
Bulb material		:	Hard glass
Bulb finish		:	Diffuse
Arc tube material		:	Alumina
Mercury(Hg)Content	(mg)	:	12.2
Overall Length	(mm)	:	140 max.
Light Centre Length	(mm)	:	89
Effective Arc Length	(mm)	:	22
Bulb Temp. limit	( °C )	:	400
Base Temp. limit	( °C )	:	190
Eccentricity Base to bulb axis	( ° )	:	3° max.
Life to 5% failures	(hr)	:	2000
Life to 10% failures (hr)	(hr)	:	3100
Life to 20% failures (hr)	(hr)	:	4300
Life to 50% failures (hr)	(hr)	:	6000
Lumen Maintenance 5000h	(%)	:	81

