

# TECHNICAL INFORMATION BULLETIN

## EYE SDX PAR

**LAMP TYPE** : High Pressure Sodium Lamp  
NH100P36SSDX

### PERFORMANCE DATA

Initial luminous flux at rated wattage after 100hrs. Burning	(lm)	:	5,000
Lamp Lumen Efficacy	(lm/W)	:	50
Beam angle		:	27X40
Peak intensity		:	7,500
Rated average life	(hrs)	:	6,000
Warm up time	(min)	:	15
Restarting time	(min)	:	15 max.
Correlated colour temperature	(K)	:	2,500
CIE chromaticity	x =	:	0.477
	y =	:	0.414
Colour rendering index	(Ra)	:	85
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. open circuit voltage	(V)	:	269
Max. open circuit voltage	(V)	:	E27/51X39

### PHYSICAL DESCRIPTION

Base designation		:	E27/51X39
Bulb designation		:	PAR36
Bulb material		:	Hard Glass
Bulb finish		:	Dichroic coating
Bulb finish (Front glass)		:	UV-cut coating
Arc tube material		:	Alumina
Mercury(Hg)Content	(mg)	:	13
Overall Length	(mm)	:	102 max.
Light Centre Length	(mm)	:	-
Effective Arc Length	(mm)	:	22
Bulb Temp. limit	( °C )	:	400
Base Temp. limit	( °C )	:	190
Eccentricity Base to bulb axis	( ° )	:	3° max.
Fixture requirement		:	Open fixture permissible
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

