

# TECHNICAL INFORMATION BULLETIN

## EYE Sunlux

**LAMP TYPE** : High Pressure Sodium Lamp  
NHR400

### PERFORMANCE DATA

Initial luminous flux at rated wattage after 100h burning	(lm)	:	36,700
Lamp lumen efficacy	(lm/W)	:	92
Beam angle	(°)	:	130
Peak intensity	(cd)	:	8,600
Rated average life	(h)	:	24,000
Warm up time	(min)	:	4
Restarting time	(min)	:	15 max.
Correlated colour temperature	(K)	:	2,100
CIE chromaticity	x	:	0.52
	y	:	0.42
Colour rendering index	(Ra)	:	25
Burning position		:	Any
Survival factor at 2,000h	(%)	:	100
4,000h	(%)	:	100
6,000h	(%)	:	100
8,000h	(%)	:	100
12,000h	(%)	:	99
16,000h	(%)	:	96
20,000h	(%)	:	83
Lumen Maintenance factor at 2,000h	(%)	:	96
4,000h	(%)	:	94
6,000h	(%)	:	92
8,000h	(%)	:	91
12,000h	(%)	:	90
16,000h	(%)	:	89
20,000h	(%)	:	87
Energy Efficiency Label		:	A+
Weighted Energy consumption (kWh/1000h)		:	440

### Lamp wattage (Nominal)

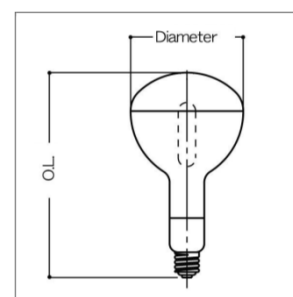
Lamp wattage (Nominal)	(W)	:	400
Lamp wattage (Rated)	(W)	:	400
Lamp voltage	(V)	:	105
Lamp current	(A)	:	4.45

### BALLAST AND IGNITOR INFORMATION

Compatible ballast	:	IEC 60662 (HPSL-400W)
Ignitor	:	Required


### 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)	: 29.9
Overall length	(mm)	: 320 max.
Light centre length (Nominal)	(mm)	: -
Effective arc length (Nominal)	(mm)	: -




### LUMINAIRE DESIGN REQUIREMENTS

Bulb Temp. limit	(°C)	:	400
Base Temp. limit	(°C)	:	210
open / enclosed		:	Open fixture permissible

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 **IWASAKI** NHR400

**A<sup>++</sup>**  
**A<sup>+</sup>**   
**A**  
**B**  
**C**  
**D**  
**E**

**440** kWh/1000h