

# TECHNICAL INFORMATION BULLETIN

## EYE Cera Arc Ace

**LAMP TYPE** : Ceramic Metal Halide Lamp  
CM220FLS/W/BUD

### PERFORMANCE DATA

Initial luminous flux at rated wattage after 100h burning	(lm)	:	23,000
Lamp lumen efficacy	(lm/W)	:	98
Rated average life	(h)	:	24,000
Warm up time	(min)	:	4
Restarting time	(min)	:	30 max.
Correlated colour temperature	(K)	:	4,100
CIE chromaticity	x	:	0.38
	y	:	0.37
Colour rendering index	(Ra)	:	85
Burning position		:	BU or BD $\pm 15^\circ$
Survival factor at 2,000h	(%)	:	99
4,000h	(%)	:	98
6,000h	(%)	:	96
8,000h	(%)	:	94
12,000h	(%)	:	87
16,000h	(%)	:	78
20,000h	(%)	:	65
Lumen Maintenance factor at 2,000h	(%)	:	89
4,000h	(%)	:	85
6,000h	(%)	:	83
8,000h	(%)	:	82
12,000h	(%)	:	80
16,000h	(%)	:	78
20,000h	(%)	:	77
Energy Efficiency Label		:	A+
Weighted Energy consumption (kWh/1000h)		:	259

### Lamp wattage (Nominal)

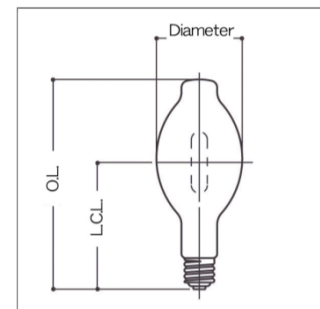
Lamp wattage (Nominal)	(W)	:	220
Lamp wattage (Rated)	(W)	:	235
Lamp voltage	(V)	:	130
Lamp current	(A)	:	2.10

### BALLAST AND IGNITOR INFORMATION

Compatible ballast	:	IEC 60188 (MVL-250W)
Ignitor	:	Not Required

### PHYSICAL DESCRIPTION

Base designation	:	E40
Bulb designation	:	BT90 (90mm dia.)
Bulb material	:	Hard glass
Bulb finish	:	Diffuse (UV-cut coating)
Arc tube material	:	Alumina
Mercury(Hg) content	(mg)	30.0
Overall length	(mm)	245 max.
Effective arc length (Nominal)	(mm)	-



### LUMINAIRE DESIGN REQUIREMENTS

Bulb Temp. limit	( $^\circ\text{C}$ )	:	400
Base Temp. limit	( $^\circ\text{C}$ )	:	210
open / enclosed		:	Open fixture permissible

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**IWASAKI** CM220FLS/W/BUD

A++  
A+  
A  
B  
C  
D  
E

258.5 kWh/1000h

The image shows a standard European energy label. It features a vertical scale of energy efficiency classes from A++ (top, dark green) to E (bottom, red). A black arrow points to the A+ class, indicating the product's energy efficiency. Below the scale, the energy consumption is listed as 258.5 kWh/1000h. The label also includes the manufacturer's name 'IWASAKI' and the model number 'CM220FLS/W/BUD'.