

# TECHNICAL INFORMATION BULLETIN

## EYE FEC Cera Arc Ace EX E

LAMP TYPE : Ceramic Metal Halide Lamp  
CM70FLS/EX/BUD

### PERFORMANCE DATA

|                                                           |        |   |                         |
|-----------------------------------------------------------|--------|---|-------------------------|
| Initial luminous flux at rated wattage after 100h burning | (lm)   | : | 7,700                   |
| Lamp lumen efficacy                                       | (lm/W) | : | 107                     |
| Rated average life                                        | (h)    | : | 20,000                  |
| Warm up time                                              | (min)  | : | 4                       |
| Restarting time                                           | (min)  | : | 15 max.                 |
| Correlated colour temperature                             | (K)    | : | 3,500                   |
| CIE chromaticity                                          | x      | : | 0.41                    |
|                                                           | y      | : | 0.40                    |
| Colour rendering index                                    | (Ra)   | : | 75                      |
| Burning position                                          |        | : | BU or BD $\pm 30^\circ$ |
| Survival factor at 2,000h                                 | (%)    | : | 99                      |
| 4,000h                                                    | (%)    | : | 97                      |
| 6,000h                                                    | (%)    | : | 95                      |
| 8,000h                                                    | (%)    | : | 91                      |
| 12,000h                                                   | (%)    | : | 82                      |
| 16,000h                                                   | (%)    | : | 68                      |
| 20,000h                                                   | (%)    | : | 50                      |
| Lumen Maintenance factor at 2,000h                        | (%)    | : | 93                      |
| 4,000h                                                    | (%)    | : | 91                      |
| 6,000h                                                    | (%)    | : | 89                      |
| 8,000h                                                    | (%)    | : | 88                      |
| 12,000h                                                   | (%)    | : | 86                      |
| 16,000h                                                   | (%)    | : | 84                      |
| 20,000h                                                   | (%)    | : | 80                      |
| Energy Efficiency Label                                   |        | : | A+                      |
| Weighted Energy consumption (kWh/1000h)                   |        | : | 79                      |

### Lamp wattage (Nominal)

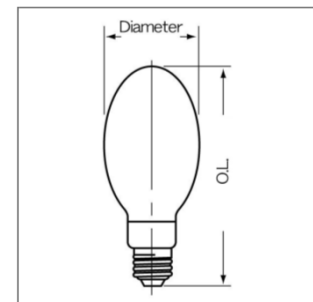
|                        |     |   |      |
|------------------------|-----|---|------|
| Lamp wattage (Nominal) | (W) | : | 70   |
| Lamp wattage (Rated)   | (W) | : | 72   |
| Lamp voltage           | (V) | : | 105  |
| Lamp current           | (A) | : | 0.80 |

### BALLAST AND IGNITOR INFORMATION

|                    |   |                     |
|--------------------|---|---------------------|
| Compatible ballast | : | IEC 60188 (MVL-80W) |
| Ignitor            | : | Not Required        |

### PHYSICAL DESCRIPTION

|                                |        |                          |
|--------------------------------|--------|--------------------------|
| Base designation               | :      | E27                      |
| Bulb designation               | :      | E70 (70mm dia.)          |
| Bulb material                  | :      | Hard glass               |
| Bulb finish                    | :      | Diffuse (UV-cut coating) |
| Arc tube material              | :      | Alumina                  |
| Mercury(Hg) content            | (mg) : | 17.3                     |
| Overall length                 | (mm) : | 156 max.                 |
| Light centre length (Nominal)  | (mm) : | -                        |
| Effective arc length (Nominal) | (mm) : | -                        |



### LUMINAIRE DESIGN REQUIREMENTS

|                  |        |   |                           |
|------------------|--------|---|---------------------------|
| Bulb Temp. limit | ( °C ) | : | 400                       |
| Base Temp. limit | ( °C ) | : | 190                       |
| open / enclosed  |        | : | Enclosed fixture required |

