

# Mixed Light Lamps

High Pressure Mercury Lamps  
160W, 250W and 500W



DATA SHEET

## Product information

Mixed Light lamps can be directly plugged in mains supply (range: 230-240V resp. 240-250V) and may be used as a high wattage incandescent retrofit solution as these lamps are self ballasted and do not require an ignitor (no control gear needed). These lamps are characterized by warm white light and require modest installation and running cost.

## Applications

Low running costs, long life, compact size, and a white light make the Mixed Light lamp suitable for a wide range of applications.



Road & Tunnel



Car Parks



Industrial



Street & Pedestrian

## Compliance with IEC Standards

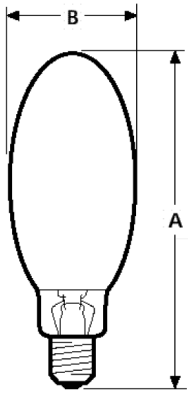
All Mixed Light lamps comply with IEC62035.

## Basic data

| Product Code                               | 96724           | 96728           | 96725           | 96723           | 96726           | 96713           |
|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Product Description                        | ML 160/230-240V | ML 160/240-250V | ML 250/230-240V | ML 250/230-240V | ML 250/240-250V | ML 500/230-240V |
| Nominal Wattage [W]                        | 160             | 160             | 250             | 250             | 250             | 500             |
| Rated Wattage [W]                          | 168             | 171             | 252             | 252             | 262             | 496             |
| Weighted Energy Consumption [kWh/1000 hrs] | 185.34          | 187.88          | 277.44          | 277.44          | 288.58          | 545.37          |
| Volts [V]                                  | 230-240         | 240-250         | 230-240         | 230-240         | 240-250         | 230-240         |
| Cap  | E27             | E27             | E27             | E40             | E40             | E40             |
| Nominal Lumen [lm]                         | 3100            | 3100            | 5500            | 5500            | 5500            | 14000           |
| Rated Lumen [lm]                           | 3128            | 3124            | 5531            | 5531            | 5736            | 14070           |
| Rated Lamp Efficacy [lm/W]                 | 19              | 18              | 22              | 22              | 22              | 28              |
| Energy Efficiency Class [EEC]              | D               | D               | C               | C               | C               | B               |
| Rated Average Life [hr]                    | 8000            | 8000            | 8000            | 8000            | 8000            | 8000            |
| Mercury Content [mg]                       | 12.0            | 12.0            | 19.0            | 19.0            | 19.0            | 34.0            |
| CCT [K]                                    | 4200            | 4200            | 4200            | 4200            | 4200            | 3800            |
| Colour Rendering Index [Ra]                | 52              | 52              | 52              | 52              | 52              | 45              |
| Ambient Temperature [°C]                   | 25              | 25              | 25              | 25              | 25              | 25              |
| Bulb                                       | Soft            | Soft            | Soft            | Soft            | Soft            | Hard            |
| Mass Weight [g]                            | 70              | 70              | 132             | 118             | 132             | 245             |
| Operating Position                         | Vertical ±30°   | Vertical ±30°   | Universal       | Universal       | Universal       | Universal       |
| Max. Temperature [°C]                      |                 |                 |                 |                 |                 |                 |
| • Cap                                      | 190             | 190             | 210             | 190             | 210             | 210             |
| • Bulb                                     | 300             | 300             | 350             | 350             | 350             | 400             |



## Dimensions

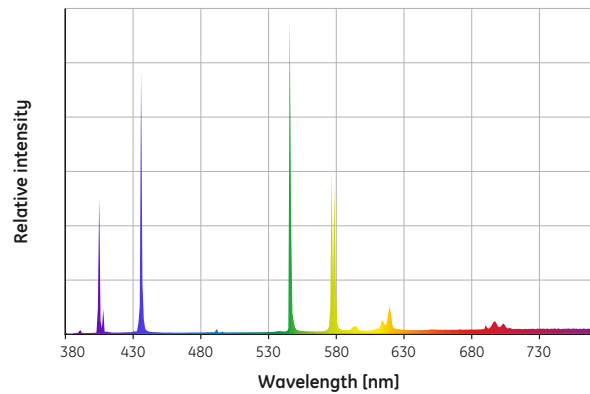


| Product code        | 96724 | 96728 | 96725 | 96723 | 96726 | 96713 |
|---------------------|-------|-------|-------|-------|-------|-------|
| Nominal Wattage [W] | 160   | 160   | 250   | 250   | 250   | 500   |
| "A" Length [mm]     | 170   | 170   | 227   | 227   | 227   | 292   |
| "B" Diameter [mm]   | 76    | 76    | 91    | 91    | 91    | 121   |
| Weight [g]          | 70    | 70    | 100   | 120   | 120   | 240   |

## Photometric data

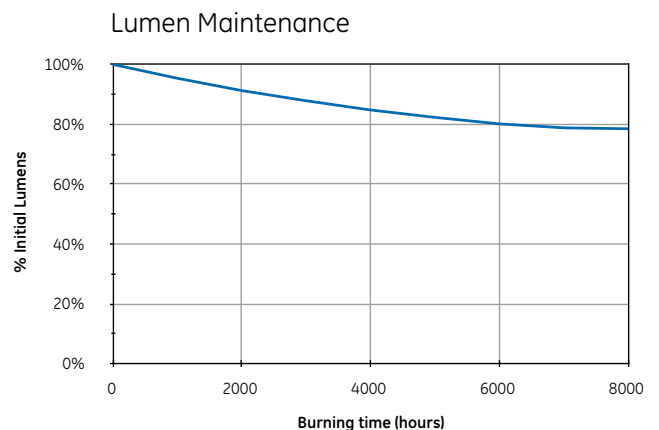
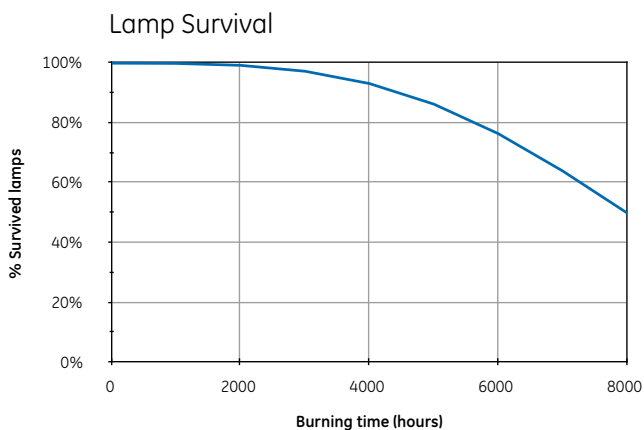
| Wattage | 100 Hour Lumens | Colour Temperature [K] | CRI [Ra] |
|---------|-----------------|------------------------|----------|
| 160     | 3100            | 4200                   | 52       |
| 160     | 3100            | 4200                   | 52       |
| 250     | 5600            | 4200                   | 52       |
| 250     | 5600            | 4200                   | 52       |
| 250     | 5600            | 4200                   | 52       |
| 500     | 14000           | 3800                   | 45       |

## Spectral power distribution



## Survival rate and lumen maintenance

For Mixed Light lamps the rated average life is 8,000 hours. The graph shows the survival of representative groups of lamps operated under controlled conditions at 10 hours per start. Lamp life in service will be affected by a number of parameters, such as mains voltage deviations, switching cycle and luminaire design. The information given is intended to be a practical guide in determining lamp replacement schedules.



## Electrical data

Data is based on a nominal lamp operating at nominal supply voltage.

| Wattage | Line Voltage | Current [A] | Power [W] |
|---------|--------------|-------------|-----------|
| 160     | 230-240V     | 0.7         | 160       |
| 160     | 240-250V     | 0.7         | 160       |
| 250     | 230-240V     | 1.17        | 250       |
| 250     | 230-240V     | 1.17        | 250       |
| 250     | 240-250V     | 1.08        | 250       |
| 500     | 230-240V     | 2.35        | 500       |

## Control gear

Mixed Light lamps must be operated directly from alternating current supply without a ballast. The line voltage should correspond to the one indicated on the bulb and on its package.

## Run-up characteristics

Time for the light output to reach 90% of the final value is 4 minutes to nominal value.

## Hot re-strike time

All ratings re-strike within 3-4 minutes following a short interruption in the supply.