

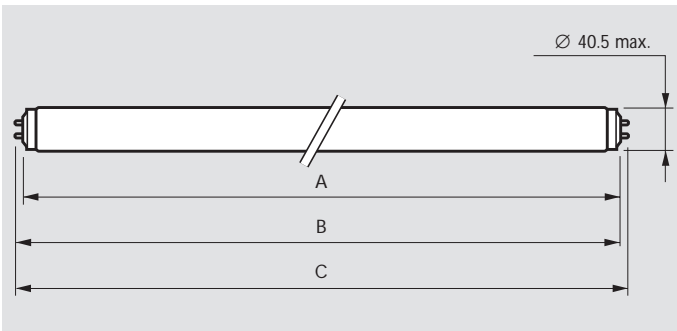
# Fluorescent lamps

# MCFE /MCFE Pro



Fluorescent lighting is efficient and economical. The efficacy (lumen/watt) of all fluorescent lamps is high compared to most other light sources. Different luminaires are available for various purposes. MCFE lamps are low-pressure mercury discharge lamps with a clear tubular 38 mm envelope. The tube wall is internally covered with a mixture of fluorescent powders. MCFE lamps are also provided with an external silicon coating for fast ignition.

MCFE Super /80 colour lamps are produced with special fluorescent powder (/80 colours), which leads to a good colour rendering index (CRI > 80) and a high efficacy. These lamps are especially used in applications where people are often present. MCFE Standard colours have a moderate colour rendering index (CRI 50-70). They are mostly used in applications where colour rendering is not an important factor. The colour designation of MCFE lamps, determined by their colour temperature, creates a certain atmosphere.

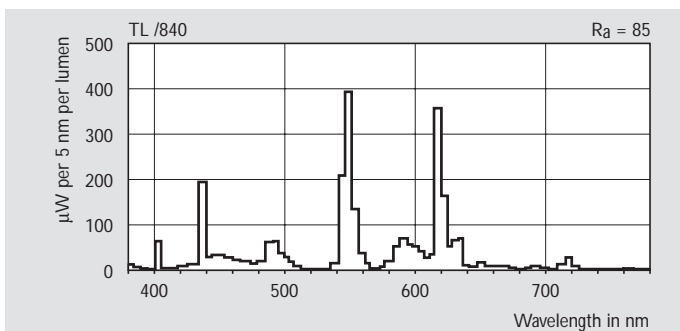
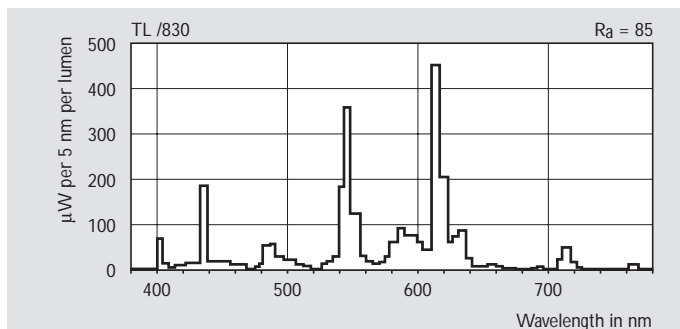
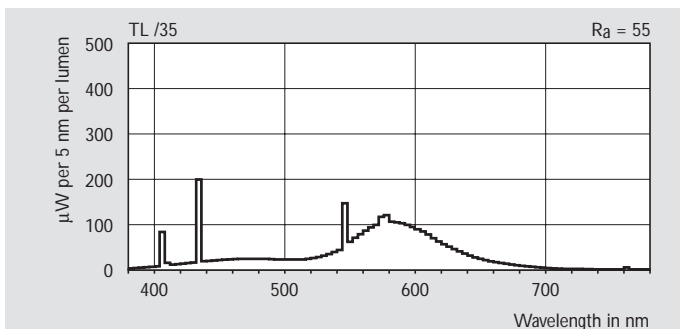
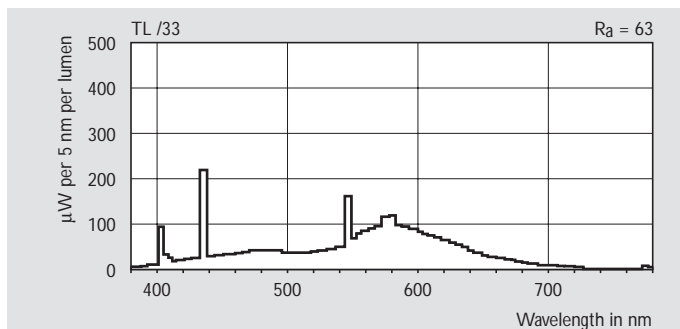
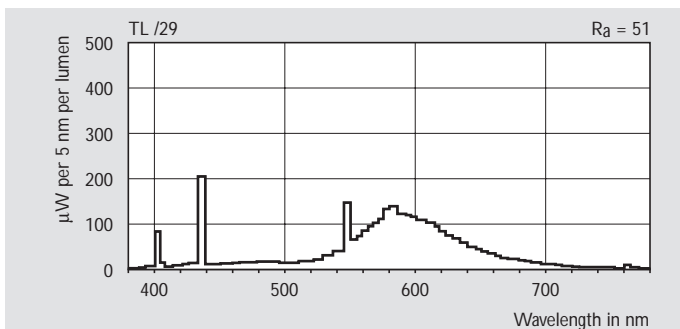


Dimensions in mm

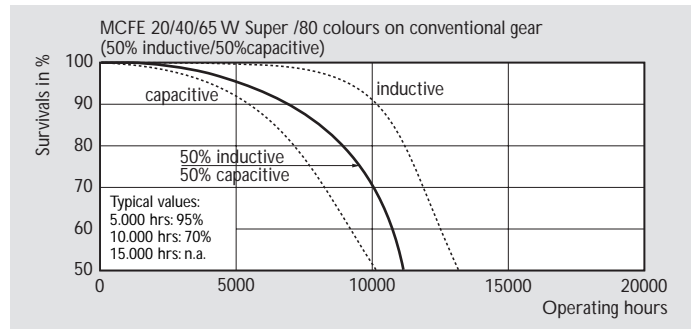
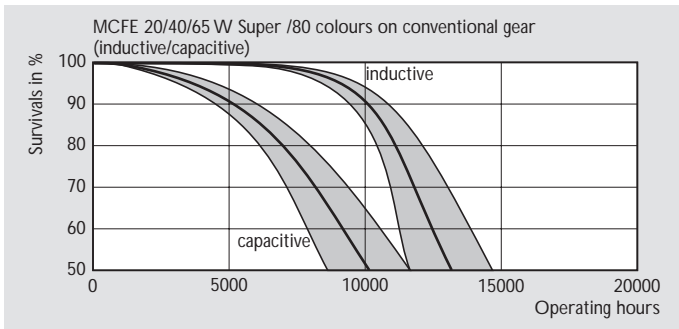
| Type                | A max. | B min. | B max. | C max. |
|---------------------|--------|--------|--------|--------|
| MCFE 20W/MCFE K 40W | 589.8  | 594.5  | 596.9  | 604.0  |
| MCFE 40W            | 1199.4 | 1204.1 | 1206.5 | 1213.6 |
| MCFE 65-80W         | 1500.0 | 1504.7 | 1507.1 | 1514.2 |
| MCFE 75-85W         | 1763.8 | 1770.9 | 1773.3 | 1778.0 |
| MCFE 85/100/125W    | 2374.3 | 2379.0 | 2381.4 | 2388.5 |

| Commercial name | Type            | Cap/base | Lamp voltage<br>V | Lamp current<br>A | Colour designation | Correlated colour temperature<br>K | Lumen output<br>lm | Average luminance<br>cd/cm <sup>2</sup> | Nett weight<br>g | EOC    |
|-----------------|-----------------|----------|-------------------|-------------------|--------------------|------------------------------------|--------------------|---|------------------|--------|
| <b>/29</b>      |                 |          |                   |                   |                    |                                    |                    |   |                  |        |
| MCFE            | MCFE 20W /29    | G13      | 57                | 0.37              | WARM WHITE         | 2900                               | 1150               | 0.55                                    | 156              | 729187 |
| MCFE            | MCFE 40W /29    | G13      | 107               | 0.43              | WARM WHITE         | 2900                               | 2900               | 0.70                                    | 292              | 721204 |
| MCFE            | MCFE 65-80W /29 | G13      | 110               | 0.67              | WARM WHITE         | 2900                               | 4750               | 0.85                                    | 360              | 730428 |
| MCFE            | MCFE 75-85W /29 | G13      | 120               | 0.80              | WARM WHITE         | 2900                               | 6200               | 1.05                                    | 410              | 731012 |
| <b>/33</b>      |                 |          |                   |                   |                    |                                    |                    |   |                  |        |
| MCFE            | MCFE 20W /33    | G13      | 57                | 0.37              | COOL WHITE         | 4100                               | 1100               | 0.55                                    | 156              | 721082 |
| MCFE            | MCFE 40W /33    | G13      | 107               | 0.43              | COOL WHITE         | 4100                               | 2850               | 0.70                                    | 292              | 721235 |
| MCFE            | MCFE 65-80W /33 | G13      | 110               | 0.67              | COOL WHITE         | 4100                               | 4650               | 0.85                                    | 360              | 721310 |
| MCFE            | MCFE 75-85W /33 | G13      | 120               | 0.80              | COOL WHITE         | 4100                               | 6050               | 1.05                                    | 410              | 721433 |
| MCFE            | MCFE 85W /33    | G13      | 178               | 0.55              | COOL WHITE         | 4100                               | 7250               | 0.91                                    | 610              | 732194 |
| MCFE            | MCFE 100W /33   | G13      | 123               | 0.94              | COOL WHITE         | 4100                               | 8100               | 1.01                                    | 610              | 616067 |
| MCFE            | MCFE 125W /33   | G13      | 149               | 0.94              | COOL WHITE         | 4100                               | 9600               | 1.20                                    | 610              | 732705 |
| <b>/35</b>      |                 |          |                   |                   |                    |                                    |                    |   |                  |        |
| MCFE            | MCFE 20W /35    | G13      | 57                | 0.37              | WHITE              | 3500                               | 1150               | 0.55                                    | 156              | 705334 |
| MCFE            | MCFE 40W /35    | G13      | 107               | 0.43              | WHITE              | 3500                               | 2900               | 0.70                                    | 292              | 704597 |
| MCFE            | MCFE 65-80W /35 | G13      | 110               | 0.67              | WHITE              | 3500                               | 4750               | 0.85                                    | 360              | 704603 |
| MCFE            | MCFE 75-85W /35 | G13      | 120               | 0.80              | WHITE              | 3500                               | 6200               | 1.05                                    | 410              | 705341 |
| MCFE            | MCFE 85W /35    | G13      | 178               | 0.55              | WHITE              | 3500                               | 7050               | 0.88                                    | 610              | 732026 |
| MCFE            | MCFE 100W /35   | G13      | 123               | 0.94              | WHITE              | 3500                               | 8500               | 1.06                                    | 610              | 700711 |
| MCFE            | MCFE 125W /35   | G13      | 149               | 0.94              | WHITE              | 3500                               | 9400               | 1.17                                    | 610              | 732460 |
| MCFE            | MCFE K 40W /35  | G13      | 47                | 0.88              | WHITE              | 3500                               | 2000               | 0.94                                    | 156              | 731579 |

| Commercial name | Type             | Cap/base | Lamp voltage | Lamp current | Colour designation | Correlated colour temperature<br>K | Lumen output<br>lm | Average luminance<br>cd/cm <sup>2</sup> | Nett weight<br>g | EOC    |
|-----------------|------------------|----------|--------------|--------------|--------------------|------------------------------------|--------------------|---|------------------|--------|
|                 |                  |          | V            | A            |                    |                                    |                    |   |                  |        |
| <b>/830</b>     |                  |          |              |              |                    |                                    |                    |   |                  |        |
| MCFE Pro        | MCFE 20W /830    | G13      | 57           | 0.37         | WARM WHITE         | 3000                               | 1300               | 0.65                                    | 156              | 729538 |
| MCFE Pro        | MCFE 40W /830    | G13      | 107          | 0.43         | WARM WHITE         | 3000                               | 3300               | 0.80                                    | 292              | 730152 |
| MCFE Pro        | MCFE 65-80W /830 | G13      | 110          | 0.67         | WARM WHITE         | 3000                               | 5400               | 1.05                                    | 360              | 730749 |
| MCFE Pro        | MCFE 75-85W /830 | G13      | 120          | 0.80         | WARM WHITE         | 3000                               | 7000               | 1.15                                    | 451              | 731302 |
| MCFE Pro        | MCFE 85W /830    | G13      | 178          | 0.55         | WARM WHITE         | 3000                               | 7400               | 0.93                                    | 610              | 732088 |
| MCFE Pro        | MCFE 100W /830   | G13      | 123          | 0.94         | WARM WHITE         | 3000                               | 9300               | 1.15                                    | 610              | 732224 |
| MCFE Pro        | MCFE 125W /830   | G13      | 149          | 0.94         | WARM WHITE         | 3000                               | 10000              | 1.25                                    | 610              | 732583 |
| <b>/840</b>     |                  |          |              |              |                    |                                    |                    |   |                  |        |
| MCFE Pro        | MCFE 20W /840    | G13      | 57           | 0.37         | COOL WHITE         | 4000                               | 1300               | 0.65                                    | 156              | 729569 |
| MCFE Pro        | MCFE 40W /840    | G13      | 107          | 0.43         | COOL WHITE         | 4000                               | 3300               | 0.80                                    | 292              | 730183 |
| MCFE Pro        | MCFE 65-80W /840 | G13      | 110          | 0.67         | COOL WHITE         | 4000                               | 5400               | 1.05                                    | 360              | 730770 |
| MCFE Pro        | MCFE 75-85W /840 | G13      | 120          | 0.80         | COOL WHITE         | 4000                               | 7000               | 1.15                                    | 410              | 731333 |
| MCFE Pro        | MCFE 85W /840    | G13      | 178          | 0.55         | COOL WHITE         | 4000                               | 7400               | 0.93                                    | 610              | 732118 |
| MCFE Pro        | MCFE 100W /840   | G13      | 123          | 0.94         | COOL WHITE         | 4000                               | 9300               | 1.15                                    | 610              | 732255 |
| MCFE Pro        | MCFE 125W /840   | G13      | 149          | 0.94         | COOL WHITE         | 4000                               | 10000              | 1.25                                    | 610              | 732644 |

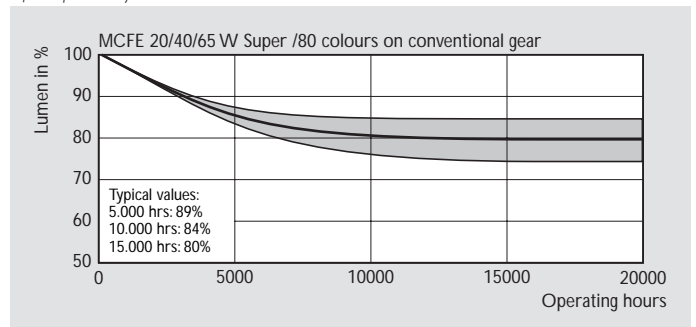
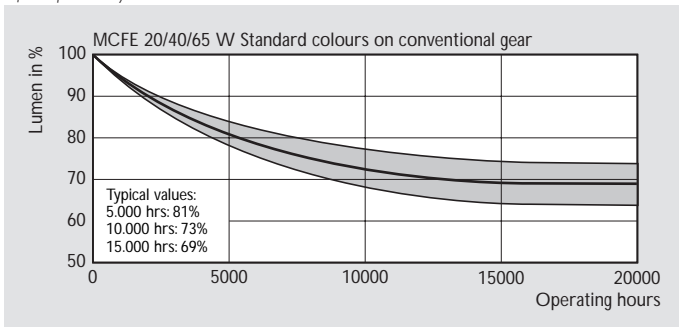


Spectral power distributions



Life expectancy

Life expectancy



Lumen maintenance

Lumen maintenance

