



# Compact fluorescent lamps



## General information and technical data

The compact fluorescent lamps (CFL) with E27, E14, G9-es, R7s and GU10 caps have built-in electronic ballast so they can operate directly from the utility network. We are not recommending to use this lamps with time switch and as frequent switching result in shorter lifetime. The lamps cannot be actuated by dimmer.

Rated voltage: 230 V, 50 Hz  
Color rendering index (Ra): > 82

Mercury content: < 2.5 mg  
Lamp power factor: > 0.55 (HPN > 0,9)

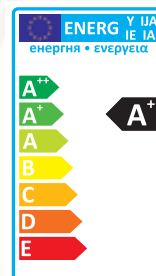
## About energy efficiency of compact fluorescent lamps and limitation of mercury content

The Commission Directive No. 98/11/EC of the European Union requires labeling the household lamps to inform consumers on their energy efficiency. This directive also contains the exact determination the performance limits of energy classes and the exact form of energy label. According to the Commission Regulation No. 244/2009/EC after 1st of September 2009 only CFL with „A“ energy rating are allowed to be distributed on the markets of the European Union.

Another Commission Regulation No. 2011/65/EU limiting the hazardous substances in electrical and electronic equipments includes the limits to the mercury content of compact fluorescent lamps. This value from 1st of January 2013 can be maximum 2,5 mg per burner. To protect the environment please always follow the technical parameters of products according to the facts mentioned above.

### Legend:

Energy label: Our compact fluorescent tubes meet the requirements of „A“ energy class (except G24d)  
 $t_{up} < 60s$ ; 60%lm: Warm-up time up to 60 % of the full light output  
 Ra: color rendering index (100: black body radiator)  
 ON-OFF: Number of switching cycles before premature lamp failure  
 Hg: mercury content of lamp  
 $\cos\varphi$ : lamp power factor



**Our assortment is expanding quickly and continuously! This catalogue reflects the status in November 2013.**

**Be up to date by our web page!**



**SCAN THE QR CODE!**

- Check our new products
- Be updated

## Comparing the lumen of different type of light sources:

| Incandescent lamp | light flux [lumen] |         | CFL    |
|-------------------|--------------------|---------|--------|
| 25 W →            | 229 lm             | 335 lm  | 7 W ←  |
| 40 W →            | 432 lm             | 440 lm  | 9 W ←  |
|                   |                    | 650 lm  | 11 W ← |
| 60 W →            | 741 lm             | 720 lm  | 13 W ← |
|                   |                    | 810 lm  | 14 W ← |
| 75 W →            | 970 lm             | 900 lm  | 15 W ← |
| 100 W →           | 1398 lm            | 1200 lm | 20 W ← |
|                   |                    | 1550 lm | 24 W ← |
| 150 W →           | 2253 lm            | 2250 lm | 35 W ← |

## Tralux compact fluorescent lamps

Our compact fluorescent lamps are available in 12 different burner shapes and 8 different caps to let our costumers find the most suitable energy-saving lamp. Thanks for the wide range of CFL the TRALUX products offer good retrofit solutions to replace traditional incandescent and halogen bulbs even in case of luminaries with small cover.

### Caps and forms of TRALUX® CFL

|               |               |   |                    |
|---------------|---------------|---|--------------------|
| <b>2U</b>     | Tube form, 2U | → | E27, G24q, G24d    |
| <b>3U</b>     | Tube form, 3U | → | E27                |
| <b>4U</b>     | Tube form, 4U | → | E27                |
| <b>GY</b>     | Candle form   | → | E14                |
| <b>MH</b>     | Mini column   | → | E14                |
| <b>RS</b>     | Short spiral  | → | E27                |
| <b>MS</b>     | Mini spiral   | → | E14, E27, GU10, G9 |
| <b>KS</b>     | Small spiral  | → | E14, E27           |
| <b>GL</b>     | Globe         | → | E14, E27           |
| <b>GLH</b>    | Pear          | → | E14, E27           |
| <b>3U, 4U</b> | Tube          | → | R7s                |
| <b>2D</b>     | Pretzel       | → | GR10q              |

### Caps of TRALUX® compact fluorescent lamps





# Compact fluorescent lamps



## Compact fluorescent lamps, 2U, 3U, 4U



E27

6000 h

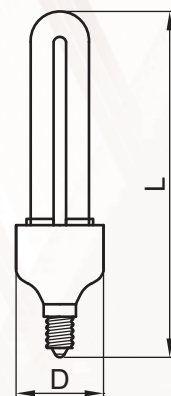
2700 K



E27

8000 h

2700 K



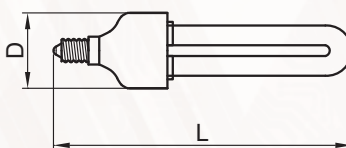
| Tracon code     | Type of socket | Rated power | Luminous flux | Rated current | Life-time | 60% lm | ON-OFF | Hg      | D (mm) | L (mm) |
|-----------------|----------------|-------------|---------------|---------------|-----------|--------|--------|---------|--------|--------|
| TLKF-2U-E27-11W | E27            | 11 W        | 638 lm        | 80 mA         | 6000 h    | <60s   | >8000  | <2,5 mg | 45     | 156    |
| TLKF-2U-E27-14W | E27            | 14 W        | 812 lm        | 100 mA        | 6000 h    | <60s   | >8000  | <2,5 mg | 45     | 156    |
| TLKF-3U-E27-9W  | E27            | 9 W         | 550 lm        | 65 mA         | 8000 h    | <60s   | >10000 | <2,5 mg | 40     | 111    |
| TLKF-3U-E27-11W | E27            | 11 W        | 650 lm        | 80 mA         | 8000 h    | <60s   | >10000 | <2,5 mg | 40     | 121    |
| TLKF-3U-E27-13W | E27            | 13 W        | 800 lm        | 95 mA         | 8000 h    | <60s   | >10000 | <2,5 mg | 40     | 131    |
| TLKF-3U-E27-15W | E27            | 15 W        | 880 lm        | 105 mA        | 8000 h    | <60s   | >10000 | <2,5 mg | 40     | 141    |
| TLKF-4U-E27-9W  | E27            | 9 W         | 550 lm        | 65 mA         | 8000 h    | <60s   | >10000 | <2,5 mg | 48     | 100    |
| TLKF-4U-E27-11W | E27            | 11 W        | 650 lm        | 80 mA         | 8000 h    | <60s   | >10000 | <2,5 mg | 48     | 105    |
| TLKF-4U-E27-15W | E27            | 15 W        | 880 lm        | 105 mA        | 8000 h    | <60s   | >10000 | <2,5 mg | 48     | 115    |
| TLKF-4U-E27-20W | E27            | 20 W        | 1100 lm       | 150 mA        | 8000 h    | <60s   | >10000 | <2,5 mg | 48     | 125    |

## High power compact fluorescent lamp, 4U

E27

6000 h

4000 K



| Tracon code  | Type of socket | Rated power | Luminous flux | Rated current | Life-time | 60% lm | ON-OFF | Hg      | D (mm) | L (mm) |
|--------------|----------------|-------------|---------------|---------------|-----------|--------|--------|---------|--------|--------|
| TLKF-HPN-35W | E27            | 35 W        | 2250 lm       | 170 mA        | 6000 h    | <60s   | >8000  | <2,5 mg | 66     | 227    |

## Compact fluorescent lamps, short spiral, warm white RS, natural white RSN



E27

8000 h

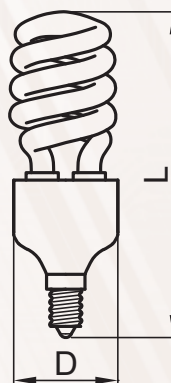
2700 K



E27

8000 h

4000 K



| Tracon code      | Type of socket | Rated power | Luminous flux | Rated current | Life-time | 60% lm | ON-OFF | Hg      | D (mm) | L (mm) |
|------------------|----------------|-------------|---------------|---------------|-----------|--------|--------|---------|--------|--------|
| TLKF-RS-E27-15W  | E27            | 15 W        | 900 lm        | 105 mA        | 8000 h    | <60s   | >8000  | <2,5 mg | 45     | 112    |
| TLKF-RS-E27-20W  | E27            | 20 W        | 1200 lm       | 150 mA        | 8000 h    | <60s   | >8000  | <2,5 mg | 55     | 115    |
| TLKF-RS-E27-24W  | E27            | 24 W        | 1550 lm       | 180 mA        | 8000 h    | <60s   | >8000  | <2,5 mg | 55     | 125    |
| TLKF-RSN-E27-15W | E27            | 15 W        | 900 lm        | 105 mA        | 8000 h    | <60s   | >8000  | <2,5 mg | 45     | 112    |
| TLKF-RSN-E27-20W | E27            | 20 W        | 1200 lm       | 150 mA        | 8000 h    | <60s   | >8000  | <2,5 mg | 55     | 115    |
| TLKF-RSN-E27-24W | E27            | 24 W        | 1550 lm       | 180 mA        | 8000 h    | <60s   | >8000  | <2,5 mg | 55     | 125    |



# Compact fluorescent lamps



## Compact fluorescent lamps, candle (GY), mini column (MH)



E14

8000 h

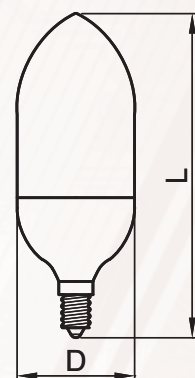
2700 K



E14

8000 h

2700 K



| Tracon code    | Type of socket | Rated power | Luminous flux | Rated current | Life-time | 60% lm | ON-OFF | Hg      | D (mm) | L (mm) |
|----------------|----------------|-------------|---------------|---------------|-----------|--------|--------|---------|--------|--------|
| TLKF-GY-E14-7W | E14            | 7 W         | 335 lm        | 50 mA         | 8000 h    | <120s  | >10000 | <2,5 mg | 37     | 102    |
| TLKF-GY-E14-9W | E14            | 9 W         | 440 lm        | 65 mA         | 8000 h    | <120s  | >10000 | <2,5 mg | 37     | 112    |
| TLKF-MH-E14-7W | E14            | 7 W         | 300 lm        | 50 mA         | 8000 h    | <120s  | >10000 | <2,5 mg | 45     | 82     |

## Compact fluorescent lamps, mini spiral, warm white MS, natural white MSN



E14, E27

G9, GU10

8000 h

2700 K

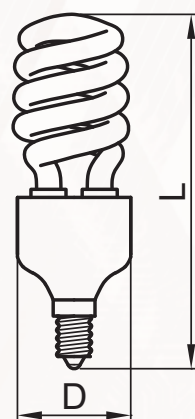


E14

GU10

8000 h

4000 K



| Tracon code       | Type of socket | Rated power | Luminous flux | Rated current | Life-time | 60% lm | ON-OFF | Hg      | D (mm) | L (mm) |
|-------------------|----------------|-------------|---------------|---------------|-----------|--------|--------|---------|--------|--------|
| TLKF-MS-E14-7W    | E14            | 7 W         | 320 lm        | 50 mA         | 8000 h    | <60s   | >10000 | <2,5 mg | 32     | 90     |
| TLKF-MS-E14-9W    | E14            | 9 W         | 450 lm        | 65 mA         | 8000 h    | <60s   | >10000 | <2,5 mg | 32     | 95     |
| TLKF-MS-E14-11W   | E14            | 11 W        | 550 lm        | 80 mA         | 8000 h    | <60s   | >10000 | <2,5 mg | 36     | 105    |
| TLKF-MS-E14-15W   | E14            | 15 W        | 800 lm        | 105 mA        | 8000 h    | <60s   | >10000 | <2,5 mg | 36     | 112    |
| TLKF-MS-E27-7W    | E27            | 7 W         | 320 lm        | 50 mA         | 8000 h    | <60s   | >10000 | <2,5 mg | 32     | 90     |
| TLKF-MS-E27-9W    | E27            | 9 W         | 450 lm        | 65 mA         | 8000 h    | <60s   | >10000 | <2,5 mg | 32     | 95     |
| TLKF-MS-E27-11W   | E27            | 11 W        | 550 lm        | 80 mA         | 8000 h    | <60s   | >10000 | <2,5 mg | 36     | 105    |
| TLKF-MS-E27-15W   | E27            | 15 W        | 800 lm        | 105 mA        | 8000 h    | <60s   | >10000 | <2,5 mg | 36     | 112    |
| TLKF-MS-G9-7W     | G9             | 7 W         | 320 lm        | 50 mA         | 8000 h    | <60s   | >10000 | <2,5 mg | 32     | 80     |
| TLKF-MS-G9-9W     | G9             | 9 W         | 450 lm        | 65 mA         | 8000 h    | <60s   | >10000 | <2,5 mg | 32     | 90     |
| TLKF-MS-G9-11W    | G9             | 11 W        | 550 lm        | 80 mA         | 8000 h    | <60s   | >10000 | <2,5 mg | 32     | 105    |
| TLKF-MS-GU10-7W   | GU10           | 7 W         | 320 lm        | 50 mA         | 8000 h    | <60s   | >10000 | <2,5 mg | 32     | 80     |
| TLKF-MS-GU10-9W   | GU10           | 9 W         | 450 lm        | 65 mA         | 8000 h    | <60s   | >10000 | <2,5 mg | 32     | 90     |
| TLKF-MS-GU10-11W  | GU10           | 11 W        | 550 lm        | 80 mA         | 8000 h    | <60s   | >10000 | <2,5 mg | 32     | 105    |
| TLKF-MSN-E14-11W  | E14            | 11 W        | 550 lm        | 80 mA         | 8000 h    | <60s   | >10000 | <2,5 mg | 36     | 105    |
| TLKF-MSN-E14-15W  | E14            | 15 W        | 800 lm        | 105 mA        | 8000 h    | <60s   | >10000 | <2,5 mg | 36     | 112    |
| TLKF-MSN-GU10-11W | GU10           | 11 W        | 550 lm        | 80 mA         | 8000 h    | <60s   | >10000 | <2,5 mg | 32     | 105    |



## Compact fluorescent lamps



### Compact fluorescent lamps, small spiral (KS)



E14

6000 h

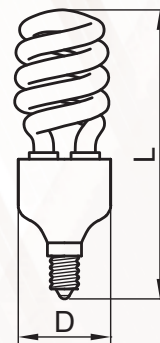
2700 K



E27

6000 h

2700 K



| Tracon code    | Type of socket | Rated power | Luminous flux | Rated current | Life-time | 60% lm | ON-OFF | Hg      | D (mm) | L (mm) |
|----------------|----------------|-------------|---------------|---------------|-----------|--------|--------|---------|--------|--------|
| TLKF-E14-11-KS | E14            | 11 W        | 600 lm        | 80 mA         | 6000 h    | <60s   | >8000  | <2,5 mg | 42     | 127    |
| TLKF-E14-13-KS | E14            | 13 W        | 720 lm        | 95 mA         | 6000 h    | <60s   | >8000  | <2,5 mg | 42     | 127    |
| TLKF-E27-11-KS | E27            | 11 W        | 600 lm        | 80 mA         | 6000 h    | <60s   | >8000  | <2,5 mg | 42     | 127    |
| TLKF-E27-13-KS | E27            | 13 W        | 720 lm        | 95 mA         | 6000 h    | <60s   | >8000  | <2,5 mg | 42     | 127    |
| TLKF-E27-15-KS | E27            | 15 W        | 770 lm        | 105 mA        | 6000 h    | <60s   | >8000  | <2,5 mg | 42     | 135    |

### Compact fluorescent lamps, globe (GL), pear (GLH)



E14, E27

8000 h

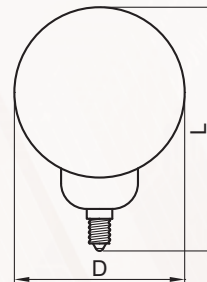
2700 K



E14, E27

8000 h

2700 K



| Tracon code      | Type of socket | Rated power | Luminous flux | Rated current | Life-time | 60% lm | ON-OFF | Hg      | D (mm) | L (mm) |
|------------------|----------------|-------------|---------------|---------------|-----------|--------|--------|---------|--------|--------|
| TLKF-GL-E14-9W   | E14            | 9 W         | 405 lm        | 65 mA         | 8000 h    | <60s   | >8000  | <2,5 mg | 60     | 99     |
| TLKF-GL-E27-9W   | E27            | 9 W         | 405 lm        | 65 mA         | 8000 h    | <60s   | >8000  | <2,5 mg | 60     | 96     |
| TLKF-GL-E27-15W  | E27            | 15 W        | 800 lm        | 105 mA        | 8000 h    | <60s   | >8000  | <2,5 mg | 80     | 132    |
| TLKF-GL-E27-20W  | E27            | 20 W        | 1155 lm       | 150 mA        | 8000 h    | <60s   | >8000  | <2,5 mg | 90     | 144    |
| TLKF-GLH-E14-11W | E14            | 11 W        | 535 lm        | 80 mA         | 8000 h    | <60s   | >8000  | <2,5 mg | 50     | 112    |
| TLKF-GLH-E27-11W | E27            | 11 W        | 535 lm        | 80 mA         | 8000 h    | <60s   | >8000  | <2,5 mg | 50     | 109    |

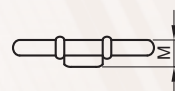
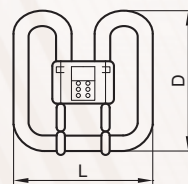
### Compact fluorescent lamps with GR10q cap (2D)



GR10q

8000 h

3500 K



| Tracon code       | Type of socket | Rated power | Luminous flux | Efficiency | Life-time | 60% lm | ON-OFF | Hg      | M (mm) | D (mm) | L (mm) |
|-------------------|----------------|-------------|---------------|------------|-----------|--------|--------|---------|--------|--------|--------|
| TLKF-2D-GR10Q-10W | GR10q          | 10 W        | 650 lm        | 65 lm/W    | 8000 h    | <60s   | >8000  | <2,5 mg | 20     | 14     | 14     |
| TLKF-2D-GR10Q-16W | GR10q          | 16 W        | 1056 lm       | 66 lm/W    | 8000 h    | <60s   | >8000  | <2,5 mg | 20     | 14,8   | 14,8   |
| TLKF-2D-GR10Q-21W | GR10q          | 21 W        | 1344 lm       | 64 lm/W    | 8000 h    | <60s   | >8000  | <2,5 mg | 20     | 14,8   | 14,8   |
| TLKF-2D-GR10Q-28W | GR10q          | 28 W        | 2044 lm       | 73 lm/W    | 8000 h    | <60s   | >8000  | <2,5 mg | 20     | 21,2   | 21,2   |
| TLKF-2D-GR10Q-38W | GR10q          | 38 W        | 2698 lm       | 71 lm/W    | 8000 h    | <60s   | >8000  | <2,5 mg | 20     | 21,2   | 21,2   |

# Compact fluorescent lamps

## Compact fluorescent lamps with G24d and G24q cap



**G24d**

**8000 h**

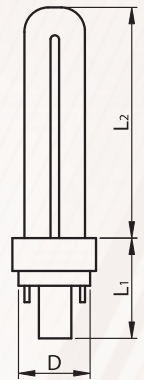
**4000 K**



**G24q**

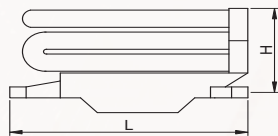
**8000 h**

**4000 K**



| Tracon code | Type of socket | Rated power | Life-time | 60% lm | ON-OFF | Hg      | D (mm) | L <sub>1</sub> (mm) | L <sub>2</sub> (mm) |
|-------------|----------------|-------------|-----------|--------|--------|---------|--------|---------------------|---------------------|
| TLKF-13     | G24d           | 13 W        | 8000 h    | -      | -      | <2,5 mg | 33     | 43                  | 99                  |
| TLKF-18     | G24d           | 18 W        | 8000 h    | -      | -      | <2,5 mg | 33     | 43                  | 114                 |
| TLKF-26     | G24d           | 26 W        | 8000 h    | -      | -      | <2,5 mg | 33     | 43                  | 130                 |
| TLKF-13-4P  | G24q           | 13 W        | 8000 h    | -      | -      | <2,5 mg | 33     | 36                  | 99                  |
| TLKF-18-4P  | G24q           | 18 W        | 8000 h    | -      | -      | <2,5 mg | 33     | 36                  | 114                 |
| TLKF-26-4P  | G24q           | 26 W        | 8000 h    | -      | -      | <2,5 mg | 33     | 36                  | 130                 |

## Compact fluorescent lamps for R7s socket



**6500 K**

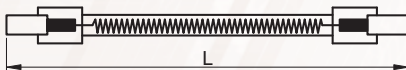
**R7s**

**8000 h**



| Tracon code     | Type of socket | Rated power | Luminous flux | Rated current | Life-time | 60% lm | ON-OFF | Hg      | H (mm) | L (mm) |
|-----------------|----------------|-------------|---------------|---------------|-----------|--------|--------|---------|--------|--------|
| TLKF-R7s-4U-11W | R7s            | 11 W        | 620 lm        | 80 mA         | 8000 h    | <60s   | >8000  | <2,5 mg | 30     | 78     |
| TLKF-R7s-21W    | R7s            | 21 W        | 1250 lm       | 175 mA        | 8000 h    | <60s   | >8000  | <2,5 mg | 52     | 118    |

## Halogen line bulbs ("C" energy class)



**2900 K**

**R7s**

**2000 h**



| Tracon code | Rated power | Rated current | Light flux (lumen) | Socket length |
|-------------|-------------|---------------|--------------------|---------------|
| THV1C-J100  | 100 W       | 0,43 A        | 1800               | 78 mm         |
| THV1C-J120  | 120 W       | 0,53 A        | 2200               | 78 mm         |
| THV2C-J200  | 200 W       | 0,87 A        | 4000               | 118 mm        |
| THV2C-J230  | 230 W       | 1 A           | 4700               | 118 mm        |
| THV2C-J330  | 330 W       | 1,43 A        | 7000               | 118 mm        |
| THV2C-J400  | 400 W       | 1,74 A        | 8600               | 118 mm        |
| THV3C-J750  | 750 W       | 3,26 A        | 16900              | 189 mm        |

## R7s sockets for halogen line bulbs

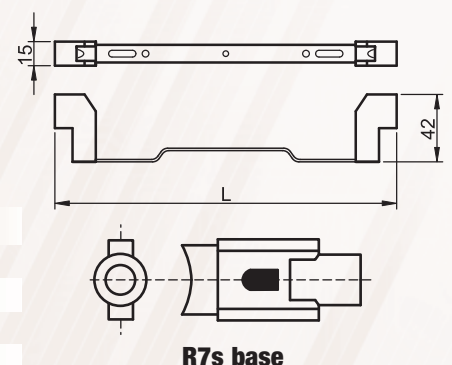


### Technical data

Rated voltage:  
Protection class:  
Type of base:

230 V AC  
I. class  
R7s

| Tracon code | Name              | L (mm) | Wire length |
|-------------|-------------------|--------|-------------|
| THF-C       | Porcelain base    | -      | 150 mm      |
| THF-78      | 2 pcs base + rail | 78 mm  | 150 mm      |
| THF-118     | 2 pcs base + rail | 118 mm | 200 mm      |
| THF-189     | 2 pcs base + rail | 189 mm | 200 mm      |



**R7s base**