

## HE 14 W/840

LUMILUX T5 HE | Tubular fluorescent lamps 16 mm, high efficiency



### Areas of application

- Public buildings
- Offices
- Shops
- Supermarkets and department stores
- Industry

### Product benefits

- Good economy and efficiency
- Up to 20 % more economical than LUMILUX T8
- Up to 50 % smaller volume than comparable T8 lamps
- Natural colors

### Product features

- Luminous efficacy: up to 104 lm/W
- Very good lumen maintenance: 90 % throughout the service lifetime of the lamp
- Long average lifetime: up to 24,000 h (with QUICKTRONIC ECG)
- Good color rendering group: 1B ( $R_a$ : 80...89)
- Dimmable



Technical data

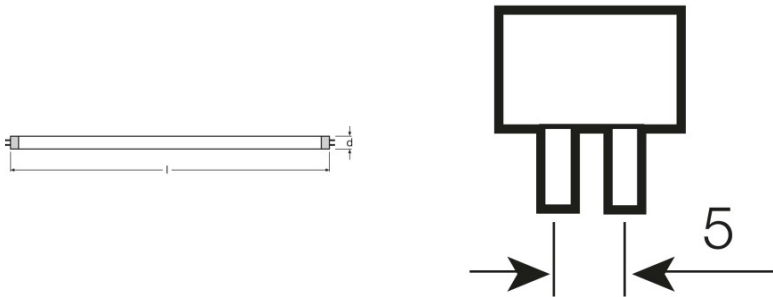
Electrical data

|                                          |                                                           |
|------------------------------------------|-----------------------------------------------------------|
| Nominal wattage                          | 14.0 W                                                    |
| Rated lamp efficacy (HF data 25 °C)      | Under clarification by authority and standardization body |
| Rated lamp efficacy (standard condition) | 86 lm/W                                                   |
| Rated wattage                            | 14.00 W                                                   |
| Rated luminous flux                      | 1200 lm                                                   |

Photometrical data

|                               |                    |
|-------------------------------|--------------------|
| Color rendering index Ra      | ≥80                |
| Luminous flux at 25 °C        | 1200 lm            |
| Luminous flux at 35 °C        | 1350 lm            |
| Light color                   | 840                |
| Color temperature             | 4000 K             |
| Nominal luminous flux         | 1200 lm            |
| Light color as per EN 12464-1 | LUMILUX Cool White |
| Rated LLMF at 2,000 h         | 0.95               |
| Rated LLMF at 4,000 h         | 0.92               |
| Rated LLMF at 6,000 h         | 0.91               |
| Rated LLMF at 8,000 h         | 0.90               |
| Rated LLMF at 12,000 h        | 0.90               |
| Rated LLMF at 16,000 h        | 0.90               |
| Rated LLMF at 20,000 h        | 0.89               |

Dimensions & weight



|               |          |
|---------------|----------|
| Tube diameter | 16 mm    |
| Length        | 549.0 mm |

## Product datasheet

|                                             |           |
|---------------------------------------------|-----------|
| Length with base excl. base pins/connection | 549.00 mm |
| Diameter                                    | 16.0 mm   |
| Maximum diameter                            | 16.0 mm   |

### Temperatures

|                                        |         |
|----------------------------------------|---------|
| Rated ambient temp.w.max.luminous flux | 35.0 °C |
|----------------------------------------|---------|

### Lifespan

|                                        |                       |
|----------------------------------------|-----------------------|
| Service life                           | 19000 h <sup>1)</sup> |
| Lifespan                               | 24000 h <sup>1)</sup> |
| Rated lamp survival factor at 2,000 h  | 0.99                  |
| Rated lamp survival factor at 4,000 h  | 0.97                  |
| Rated lamp survival factor at 6,000 h  | 0.99                  |
| Rated lamp survival factor at 8,000 h  | 0.92                  |
| Rated lamp survival factor at 12,000 h | 0.91                  |
| Rated lamp survival factor at 16,000 h | 0.90                  |
| Rated lamp survival factor at 20,000 h | 0.85                  |
| Operation mode LLMF/LSF                | HF                    |
| Rated lamp life time                   | 24000 h               |
| Nominal lamp life time                 | 24000 h               |

<sup>1)</sup> With preheat ECG

### Additional product data

|                                   |                                                                                                                                          |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Base (standard designation)       | G5                                                                                                                                       |
| Lamp mercury content              | 1.9 mg                                                                                                                                   |
| Appropriate disposal acc. to WEEE | Yes                                                                                                                                      |
| Product remark                    | Suitable for ECG operation only/Lamp designed for internal luminaire temperatures of 30...40 °C; optimum luminous flux achieved at 35 °C |

### Capabilities

|                     |     |
|---------------------|-----|
| Dimmable            | Yes |
| Suitable for indoor | Yes |

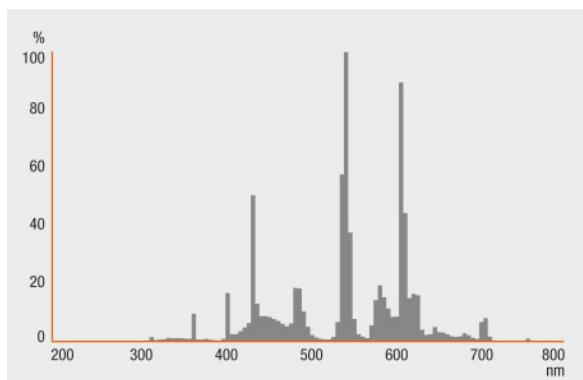
### Certificates & standards

|                         |              |
|-------------------------|--------------|
| Energy efficiency class | A+           |
| Energy consumption      | 16 kWh/1000h |

## Product datasheet

### Light Distribution

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### Spectral power distribution

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### System guarantee

OSRAM System+ Guarantee in combination with OSRAM ECGs



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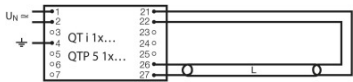
### Guarantee

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### Safety advice

In case of lamp breakage: [www.osram.com/brokenlamp](http://www.osram.com/brokenlamp)

Product datasheet



Circuit diagram



Circuit diagram

Logistical Data

| Product code  | Product description | Packaging unit<br>(Pieces/Unit) | Dimensions (length<br>x width x height) | Volume                | Gross weight |
|---------------|---------------------|---------------------------------|-----------------------------------------|-----------------------|--------------|
| 4008321916013 | HE 14 W/840         | Shipping carton box<br>10       | 633 mm x 46 mm x<br>232 mm              | 6.76 dm <sup>3</sup>  | 959.00 g     |
| 4050300464688 | HE 14 W/840         | Shipping carton box<br>40       | 598 mm x 95 mm x<br>198 mm              | 11.25 dm <sup>3</sup> | 2580.00 g    |
| 4050300591384 | HE 14 W/840         | Shipping carton box<br>20       | 587 mm x 90 mm x<br>129 mm              | 6.82 dm <sup>3</sup>  | 1503.00 g    |

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

References / Links

For more information on the system guarantee and the terms and conditions of the guarantee visit  
▶ [www.osram.com/system-guarantee](http://www.osram.com/system-guarantee)

Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.

## HE 14 W/840

LUMILUX T5 HE | Tubular fluorescent lamps 16 mm, high efficiency

| Product name | Product name ECG        | EAN           | Nominal current | Nominal wattage + Power loss | Luminous flux at 35 °C | Number of lighting outlets |
|--------------|-------------------------|---------------|-----------------|------------------------------|------------------------|----------------------------|
| HE 14 W/840  | QT-ECO 1x4-16/220-240 L | 4050300660370 | 0.10 A          | 15.00 W                      | 1150 lm                | 1                          |
|              | QT-ECO 1x4-16/220-240 S | 4050300638584 | 0.10 A          | 15.00 W                      | 1150 lm                | 1                          |
|              | QT-FIT 5 1x14-35        | 4008321971234 | 0.08 A          | 16.00 W                      | 1200 lm                | 1                          |
|              | QT-FIT 5 2x14-35        | 4008321971258 | 0.14 A          | 32.00 W                      | 1200 lm                | 2                          |
|              | QT-FIT 5 3x14, 4x14     | 4008321971210 | 0.28 A          | 63.00 W                      | 1200 lm                | 4                          |
|              | QTi 1x14/24/21/39 GII   | 4008321383334 | 0.08 A          | 16.00 W                      | 1200 lm                | 1                          |
|              | QTi 1x14/24 DIM         | 4050300870922 | 0.07 A          | 15.40 W                      | 1200 lm                | 1                          |
|              | QTi 1x28/54/35/49 GII   | 4008321383358 | 0.08 A          | 16.00 W                      | 1275 lm                | 1                          |
|              | QTi 1x35/49/80 GII      | 4008321383372 | 0.08 A          | 16.00 W                      | 1275 lm                | 1                          |
|              | QTi 2x14/24/21/39 GII   | 4008321383396 | 0.15 A          | 31.00 W                      | 1200 lm                | 2                          |
|              | QTi 2x14/24 DIM         | 4050300870946 | 0.14 A          | 30.60 W                      | 1200 lm                | 2                          |
|              | QTi 2x28/54/35/49 GII   | 4008321383419 | 0.15 A          | 32.00 W                      | 1275 lm                | 2                          |
|              | QTi 2x35/49/80 GII      | 4008321658951 | 0.18 A          | 34.00 W                      | 1250 lm                | 2                          |
|              | QTi 3x14/24 DIM         | 4008321069719 | 0.20 A          | 45.30 W                      | 1200 lm                | 3                          |
|              | QTi 4x14/24 DIM         | 4008321069993 | 0.27 A          | 60.40 W                      | 1200 lm                | 4                          |
|              | QTi DALI 1x14/24 DIM    | 4050300870380 | 0.07 A          | 15.40 W                      | 1200 lm                | 1                          |
|              | QTi DALI 2x14/24 DIM    | 4050300870861 | 0.14 A          | 30.60 W                      | 1200 lm                | 2                          |
|              | QTi DALI 3x14/24 DIM    | 4008321069955 | 0.20 A          | 45.30 W                      | 1200 lm                | 3                          |

## Product datasheet

| Product name | Product name ECG     | EAN           | Nominal current | Nominal wattage + Power loss | Luminous flux at 35 °C | Number of lighting outlets |
|--------------|----------------------|---------------|-----------------|------------------------------|------------------------|----------------------------|
|              | QTi DALI 4x14/24 DIM | 4008321070036 | 0.27 A          | 60.40 W                      | 1200 lm                | 4                          |
|              | QTP5 1x14-35         | 4008321329035 | 0.08 A          | 16.00 W                      | 1200 lm                | 1                          |
|              | QTP5 2x14-35         | 4008321329073 | 0.14 A          | 30.00 W                      | 1200 lm                | 2                          |
|              | QTP5 3x14, 4x14      | 4008321484598 | 0.28 A          | 48.00 W                      | 1350 lm                | 3                          |
|              | QTP5 3x14, 4x14      | 4008321484598 | 0.22 A          | 63.00 W                      | 1350 lm                | 4                          |
|              | QTz5 1x14            | 4052899019102 | 0.10 A          | 15.00 W                      | 1150 lm                | 1                          |
|              | QTz5 2x14            | 4052899019164 | 0.14 A          | 32.00 W                      | 1200 lm                | 2                          |
|              | QTz5 3x14            | 4052899019201 | 0.21 A          | 49.00 W                      | 1350 lm                | 3                          |

| Product name | Product name ECG        | EAN           | Luminous flux at 25 °C |
|--------------|-------------------------|---------------|------------------------|
| HE 14 W/840  | QT-ECO 1x4-16/220-240 L | 4050300660370 |                        |
|              | QT-ECO 1x4-16/220-240 S | 4050300638584 |                        |
|              | QT-FIT 5 1x14-35        | 4008321971234 |                        |
|              | QT-FIT 5 2x14-35        | 4008321971258 |                        |
|              | QT-FIT 5 3x14, 4x14     | 4008321971210 |                        |
|              | QTi 1x14/24/21/39 GII   | 4008321383334 |                        |
|              | QTi 1x14/24 DIM         | 4050300870922 |                        |
|              | QTi 1x28/54/35/49 GII   | 4008321383358 |                        |
|              | QTi 1x35/49/80 GII      | 4008321383372 |                        |
|              | QTi 2x14/24/21/39 GII   | 4008321383396 |                        |
|              | QTi 2x14/24 DIM         | 4050300870946 |                        |
|              |                         |               |                        |

## Product datasheet

| Product name | Product name ECG      | EAN           | Luminous<br>flux at 25<br>°C |
|--------------|-----------------------|---------------|------------------------------|
|              | QTi 2x28/54/35/49 GII | 4008321383419 |                              |
|              | QTi 2x35/49/80 GII    | 4008321658951 |                              |
|              | QTi 3x14/24 DIM       | 4008321069719 |                              |
|              | QTi 4x14/24 DIM       | 4008321069993 |                              |
|              | QTi DALI 1x14/24 DIM  | 4050300870380 |                              |
|              | QTi DALI 2x14/24 DIM  | 4050300870861 |                              |
|              | QTi DALI 3x14/24 DIM  | 4008321069955 |                              |
|              | QTi DALI 4x14/24 DIM  | 4008321070036 |                              |
|              | QTP5 1x14-35          | 4008321329035 |                              |
|              | QTP5 2x14-35          | 4008321329073 |                              |
|              | QTP5 3x14, 4x14       | 4008321484598 | 1200 lm                      |
|              | QTP5 3x14, 4x14       | 4008321484598 | 1200 lm                      |
|              | QTz5 1x14             | 4052899019102 |                              |
|              | QTz5 2x14             | 4052899019164 |                              |
|              | QTz5 3x14             | 4052899019201 | 1200 lm                      |