

# PRODUCT FAMILY DATASHEET

## LUMILUX T5 HE ES

Tubular fluorescent lamps 16 mm, high efficiency, energy saver, with G5 base



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### AREAS OF APPLICATION

- Public buildings
- Offices
- Shops
- Supermarkets and department stores
- Industry
- Outdoor applications only in suitable luminaires

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### PRODUCT BENEFITS

- Up to 10 % energy savings compared to standard T5 HE LUMILUX lamps
- Excellent economy and efficiency
- Pay-back time less than 1 year
- High luminous efficacy

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### PRODUCT FEATURES

- Luminous efficacy: up to 114 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



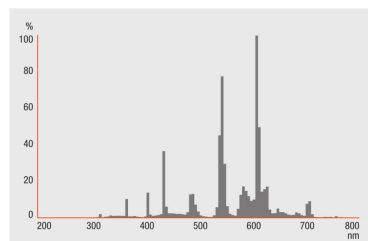
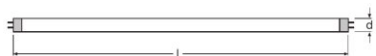
## TECHNICAL DATA

| Product description          | Electrical data | Photometrical data       |                        |                        |                   |                           |                   |               |                          | Dimensions & weight |   |
|------------------------------|-----------------|--------------------------|------------------------|------------------------|-------------------|---------------------------|-------------------|---------------|--------------------------|---------------------|---|
|                              | Nominal wattage | Color rendering index Ra | Luminous flux at 25 °C | Luminous flux at 35 °C | Color temperature | Light color (designation) | Color temperature | Luminous flux | Color rendering index Ra | Tube diameter       | Length with base excl. base pins/connection |
| HE ES 13 W/830 <sup>1)</sup> | 12.50 W         | ≥80                      | 1150 lm                | 1350 lm                | 3000 K            | LUMILUX Warm White        | 3000 K            | 1150 lm       | ≥80                      | 16 mm               | 549.00 mm                                   |
| HE ES 13 W/840 <sup>1)</sup> | 12.50 W         | ≥80                      | 1150 lm                | 1350 lm                | 4000 K            | LUMILUX Cool White        | 4000 K            | 1150 lm       | ≥80                      | 16 mm               | 549.00 mm                                   |
| HE ES 13 W/865 <sup>1)</sup> | 12.50 W         | ≥80                      | 1050 lm                | 1300 lm                | 6500 K            | LUMILUX Cool Daylight     | 6500 K            | 1050 lm       | ≥80                      | 16 mm               | 549.00 mm                                   |
| HE ES 19 W/840 <sup>1)</sup> | 18.80 W         | ≥80                      | 1800 lm                | 2100 lm                | 4000 K            | LUMILUX Cool White        | 4000 K            | 1800 lm       | ≥80                      | 16 mm               | 849.00 mm                                   |
| HE ES 25 W/830 <sup>1)</sup> | 32.00 W         | ≥80                      | 2450 lm                | 2900 lm                | 3000 K            | LUMILUX Warm White        | 3000 K            | 2450 lm       | ≥80                      | 16 mm               | 1149.00 mm                                  |
| HE ES 25 W/840 <sup>1)</sup> | 25.30 W         | ≥80                      | 2450 lm                | 2900 lm                | 4000 K            | LUMILUX Cool White        | 4000 K            | 2450 lm       | ≥80                      | 16 mm               | 1149.00 mm                                  |
| HE ES 25 W/865 <sup>1)</sup> | 25.00 W         | ≥80                      | 2260 lm                | 2750 lm                | 6500 K            | LUMILUX Cool Daylight     | 6500 K            | 2260 lm       | ≥80                      | 16 mm               | 1149.00 mm                                  |
| HE ES 32 W/830 <sup>1)</sup> | 32.00 W         | ≥80                      | 3100 lm                | 3650 lm                | 3000 K            | LUMILUX Warm White        | 3000 K            | 3100 lm       | ≥80                      | 16 mm               | 1449.00 mm                                  |
| HE ES 32 W/840 <sup>1)</sup> | 32.00 W         | ≥80                      | 3100 lm                | 3650 lm                | 4000 K            | LUMILUX Cool White        | 4000 K            | 3100 lm       | ≥80                      | 16 mm               | 1449.00 mm                                  |
| HE ES 32 W/865 <sup>1)</sup> | 32.00 W         | ≥80                      | 2870 lm                | 3500 lm                | 6500 K            | LUMILUX Cool Daylight     | 6500 K            | 2870 lm       | ≥80                      | 16 mm               | 1449.00 mm                                  |

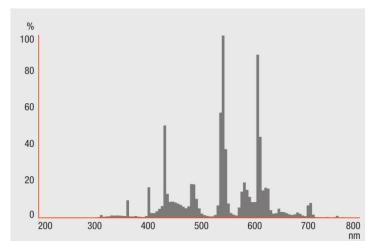
| Product description          | Temperatures & operating conditions     | Lifespan              |                       | Additional product data     |                 | Capabilities | Certificates & standards |                    |
|------------------------------|---|-----------------------|-----------------------|-----------------------------|-----------------|--------------|--------------------------|--------------------|
|                              | Rated ambient temp.w. max.luminous flux | Service life          | Lifespan              | Base (standard designation) | Show WEEE picto | Dimmable     | Energy efficiency class  | Energy consumption |
| HE ES 13 W/830 <sup>1)</sup> | 35.0 °C                                 | 19000 h <sup>2)</sup> | 24000 h <sup>2)</sup> | G5                          | Yes             | Yes          | A+                       | 14 kWh/1000h       |
| HE ES 13 W/840 <sup>1)</sup> | 35.0 °C                                 | 19000 h <sup>2)</sup> | 24000 h <sup>2)</sup> | G5                          | Yes             | Yes          | A+                       | 14 kWh/1000h       |
| HE ES 13 W/865 <sup>1)</sup> | 35.0 °C                                 | 19000 h <sup>2)</sup> | 24000 h <sup>2)</sup> | G5                          | Yes             | Yes          | A+                       | 14 kWh/1000h       |
| HE ES 19 W/840 <sup>1)</sup> | 35.0 °C                                 | 19000 h <sup>2)</sup> | 24000 h <sup>2)</sup> | G5                          | Yes             | Yes          | A+                       | 21 kWh/1000h       |
| HE ES 25 W/830 <sup>1)</sup> | 35.0 °C                                 | 19000 h <sup>2)</sup> | 24000 h <sup>2)</sup> | G5                          | Yes             | Yes          | A+                       | 28 kWh/1000h       |
| HE ES 25 W/840 <sup>1)</sup> | 35.0 °C                                 | 19000 h <sup>2)</sup> | 24000 h <sup>2)</sup> | G5                          | Yes             | Yes          | A+                       | 28 kWh/1000h       |
| HE ES 25 W/865 <sup>1)</sup> | 35.0 °C                                 | 19000 h <sup>2)</sup> | 24000 h <sup>2)</sup> | G5                          | Yes             | Yes          | A+                       | 28 kWh/1000h       |
| HE ES 32 W/830 <sup>1)</sup> | 35.0 °C                                 | 19000 h <sup>2)</sup> | 24000 h <sup>2)</sup> | G5                          | Yes             | Yes          | A+                       | 35 kWh/1000h       |
| HE ES 32 W/840 <sup>1)</sup> | 35.0 °C                                 | 19000 h <sup>2)</sup> | 24000 h <sup>2)</sup> | G5                          | Yes             | Yes          | A+                       | 35 kWh/1000h       |
| HE ES 32 W/865 <sup>1)</sup> | 35.0 °C                                 | 19000 h <sup>2)</sup> | 24000 h <sup>2)</sup> | G5                          | Yes             | Yes          | A+                       | 35 kWh/1000h       |

<sup>1)</sup> For ECG operation only/Lamp designed for internal luminaire temperatures of 30...40 °C; optimum luminous flux achieved at 35 °C

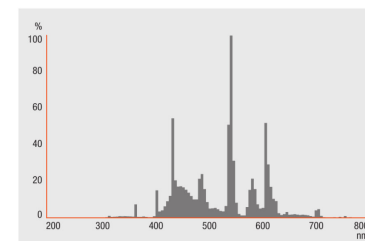
<sup>2)</sup> With preheat ECG



HE ES 13 W/830, HE ES 25 W/830, HE ES 32 W/830

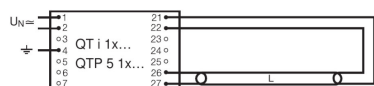


HE ES 13 W/840, HE ES 19 W/840, HE ES 25 W/840, HE ES 32 W/840



HE ES 13 W/865, HE ES 25 W/865, HE ES 32 W/865

HE ES 13 W/830, HE ES 13 W/840, HE ES 13 W/865, HE ES 19 W/840, HE ES 25 W/830, HE ES 25 W/840, HE ES 25 W/865, HE ES 32 W/830, HE ES 32 W/840, HE ES 32 W/865




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HE ES 13 W/830, HE ES 13 W/840, HE ES 13 W/865, HE ES 19 W/840, HE ES 25 W/830, HE ES 25 W/840, HE ES 25 W/865, HE ES 32 W/830, HE ES 32 W/840, HE ES 32 W/865

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HE ES 13 W/830, HE ES 13 W/840, HE ES 13 W/865, HE ES 19 W/840, HE ES 25 W/830, HE ES 25 W/840, HE ES 25 W/865, HE ES 32 W/830, HE ES 32 W/840, HE ES 32 W/865

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### SYSTEM GUARANTEE

OSRAM System+ Guarantee in combination with OSRAM ECGs

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### SAFETY ADVICE

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

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### APPLICATION ADVICE

For more detailed application information and graphics please see product datasheet.

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### LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4008321733887 | Shipping carton box<br>20    | 580 mm x 83 mm x 106 mm              | 1415.50 g    | 5.10 dm <sup>3</sup>  |
| 4008321733900 | Shipping carton box<br>20    | 580 mm x 83 mm x 106 mm              | 1415.50 g    | 5.10 dm <sup>3</sup>  |
| 4008321733924 | Shipping carton box<br>20    | 580 mm x 106 mm x 83 mm              | 1414.00 g    | 5.10 dm <sup>3</sup>  |
| 4008321734037 | Shipping carton box<br>20    | 883 mm x 106 mm x 83 mm              | 2104.00 g    | 7.77 dm <sup>3</sup>  |
| 4008321516930 | Shipping carton box<br>40    | 1200 mm x 83 mm x 194 mm             | 4813.00 g    | 19.32 dm <sup>3</sup> |
| 4008321958051 | Shipping carton box<br>20    | 1182 mm x 83 mm x 104 mm             | 2712.50 g    | 10.20 dm <sup>3</sup> |
| 4008321516954 | Shipping carton box<br>40    | 1200 mm x 83 mm x 194 mm             | 4813.00 g    | 19.32 dm <sup>3</sup> |
| 4008321958068 | Shipping carton box<br>20    | 1182 mm x 83 mm x 104 mm             | 2712.50 g    | 10.20 dm <sup>3</sup> |
| 4008321958075 | Shipping carton box<br>20    | 1182 mm x 83 mm x 104 mm             | 2712.50 g    | 10.20 dm <sup>3</sup> |
| 4008321958099 | Shipping carton box<br>20    | 1482 mm x 83 mm x 104 mm             | 3450.00 g    | 12.79 dm <sup>3</sup> |
| 4008321517173 | Shipping carton box<br>40    | 1500 mm x 83 mm x 194 mm             | 6258.00 g    | 24.15 dm <sup>3</sup> |
| 4008321958105 | Shipping carton box<br>20    | 1482 mm x 83 mm x 104 mm             | 3450.00 g    | 12.79 dm <sup>3</sup> |
| 4008321958112 | Shipping carton box<br>20    | 1482 mm x 104 mm x 83 mm             | 3450.00 g    | 12.79 dm <sup>3</sup> |

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.ledvance.com/system-guarantee](http://www.ledvance.com/system-guarantee)

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## DISCLAIMER

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