

PRODUCT DATASHEET

HE 28 W/840

LUMILUX® T5 HE® | Tubular fluorescent lamps 16 mm, high efficiency, with G5 base



Areas of application

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

Product benefits

- Up to 20 % more economical than LUMILUX® T8

Product features

- Very good lumen maintenance: 90 % throughout the service lifetime of the lamp
- Good color rendering index
- Dimmable



TECHNICAL DATA

Electrical data

| | |
|----------------------|---------|
| Nominal wattage | 28 W |
| Construction wattage | 28.30 W |
| Nominal voltage | 166 V |
| Nominal current | 0.17 A |

Photometrical data

| | |
|---------------------------|--------------------|
| Luminous flux | 2800 lm |
| Luminous efficacy | 99 lm/W |
| Luminous flux at 35 °C | 2800 lm |
| Light color (designation) | LUMILUX Cool White |
| Color temperature | 4000 K |
| Color rendering index Ra | ≥80 |
| Light color | 840 |
| Rated LLMF at 2,000 h | 0.95 |
| Rated LLMF at 4,000 h | 0.93 |
| Rated LLMF at 6,000 h | 0.92 |
| 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 |



349615_FL_840

Dimensions & Weight

| | |
|---|------------|
| Overall length | 1163.20 mm |
| Length with base excl. base pins/connection | 1149 mm |
| Diameter | 16,0 mm |

| | |
|----------------|---------|
| Tube diameter | 16 mm |
| Product weight | 88.02 g |

Lifespan

| | |
|--|-----------------------|
| Service life | 19000 h ¹⁾ |
| Rated lamp survival factor at 2,000 h | 0.99 |
| Rated lamp survival factor at 4,000 h | 0.99 |
| Rated lamp survival factor at 6,000 h | 0.99 |
| Rated lamp survival factor at 8,000 h | 0.99 |
| Rated lamp survival factor at 12,000 h | 0.99 |
| Rated lamp survival factor at 16,000 | 0.97 |
| Rated lamp survival factor at 20,000 h | 0.85 |
| Lifespan B50 | 24000 h |

¹⁾ With preheat ECG

Additional product data

| | |
|-----------------------------|--|
| Base (standard designation) | G5 |
| Mercury content | 1.5 mg |
| 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 |
|----------|-----|

Certificates & Standards

| | |
|-------------------------|-----------------|
| Energy efficiency class | F |
| Energy consumption | 29.00 kWh/1000h |

Country-specific categorizations

| | |
|-----------------|----------------------------|
| ILCOS | FDH-28/840-L/P/-G5-16/1149 |
| Order reference | HE 28W/840 |

Energy labelling regulation data acc EU 2019/2015





| | |
|--------------------------------|-----------|
| Lighting technology used | LFL_T5_HE |
| Non-directional or directional | NDLS |
| Mains or non-mains | NMLS |

| | |
|---|--------------|
| Light source cap-type (or other electric interface) | G5 |
| Connected light source (CLS) | No |
| Color-tuneable light source | No |
| Envelope | No |
| High luminance light source | No |
| Anti-glare shield | No |
| Correlated colour temperature type | SINGLE_VALUE |
| Claim of equivalent power | No |
| Length | 1163.20 mm |
| Height | 16,0 mm |
| Width | 16,0 mm |
| Chromaticity coordinate x | 0,380 |
| Chromaticity coordinate y | 0,380 |
| Beam angle correspondence | SPHERE_360 |
| EPREL ID | 546271 |

Safety advice

– In case of lamp breakage: www.ledvance.com/brokenlamp

DOWNLOAD DATA

| Documents and certificates | | Document name |
|--|-----------------------------|--|
|  | Declarations of conformity | EC Declaration of Conformity - 2021 9C1-4077889-EN-00 - T5 HE HO |
|  | Certificates | EAC N RU D-DE.MU62.B.00801_20 02.03.2020-01.03.2025 Prommash Test - FL |
|  | Certificates | EAC RU C-DE HA10.B.00671 16 08 2018 15 07 2023 Expert Sertifikaciya FL |
| Photometric and lighting design files | | Document name |
|  | Spectral power distribution | 349615_FL_840 |

LOGISTICAL DATA

| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|--------------|------------------------------|--------------------------------------|--------------|--------|
|--------------|------------------------------|--------------------------------------|--------------|--------|

| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4050300591421 | Sleeve 1 | 1,164 mm x 18 mm x 18 mm | 127.00 g | 0.38 dm ³ |
| 4050300464725 | Unpacked 1 | 1,163 mm x 16 mm x 16 mm | 107.36 g | 0.30 dm ³ |
| 4050300464732 | Shipping box 40 | 1,194 mm x 199 mm x 87 mm | 4222.00 g | 20.67 dm ³ |
| 4050300591438 | Shipping box 20 | 1,191 mm x 104 mm x 88 mm | 2712.50 g | 10.90 dm ³ |

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.

DISCLAIMER

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