

Product datasheet

HE 21 W/840

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

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



- Good economy and efficiency Up to 20 % more economical than LUMILUX® T8 Up to 50 % smaller volume than comparable T8 lamps
- 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 (Ra: 80...89) Dimmable Product benefits Good economy and efficiency Up to 20 % more economical than LUMILUX® T8 Up to 50 % smaller volume than comparable T8 lamps Areas of application Public buildings Offices Shops Supermarkets and department stores Industry Outdoor applications only in suitable luminaires System guarantee OSRAM System+ Guarantee in combination with OSRAM ECGs Safety advice In case of lamp breakage: www.ledvance.com/brokenlamp References / Links For more information on the system guarantee and the terms and conditions of the guarantee visit www.ledvance.com/system-guarantee



Technical data

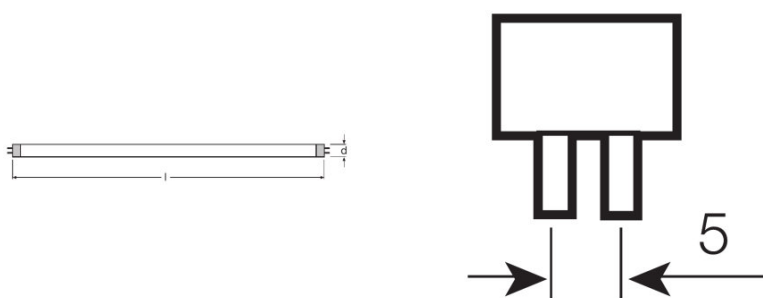
Electrical data

| | |
|-------------------------------------|---------|
| Nominal voltage | 220 V |
| Nominal wattage | 21.00 W |
| Rated lamp efficacy (HF data 25 °C) | 92 lm/W |
| Rated wattage | 20.60 W |

Photometrical data

| | |
|---------------------------|--------------------|
| Color rendering index Ra | ≥80 |
| Rated luminous flux | 1900 lm |
| Luminous flux at | 1900 lm |
| Luminous flux at | 2100 lm |
| Light color | 840 |
| Rated color temperature | 4000 K |
| Nominal luminous flux | 1900 lm |
| Light color (designation) | 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 | 849.0 mm |
| Length with base excl. base pins/connection | 849.00 mm |

Product datasheet

| | |
|------------------|---------|
| Diameter | 16.0 mm |
| Maximum diameter | 16.0 mm |

Temperatures & operating conditions

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

Lifespan

| | |
|--|-----------------------|
| Service life | 19000 h ¹⁾ |
| Lifespan | 24000 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 h | 0.97 |
| Rated lamp survival factor at 20,000 h | 0.85 |
| Operation mode LLMF/LSF | HF |
| Rated lamp life time | 24000 h |

¹⁾ With preheat ECG

Additional product data

| | |
|-----------------------------------|--|
| Base (standard designation) | G5 |
| Mercury content | 1.9 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 |
| Appropriate disposal acc. to WEEE | Yes |

Capabilities

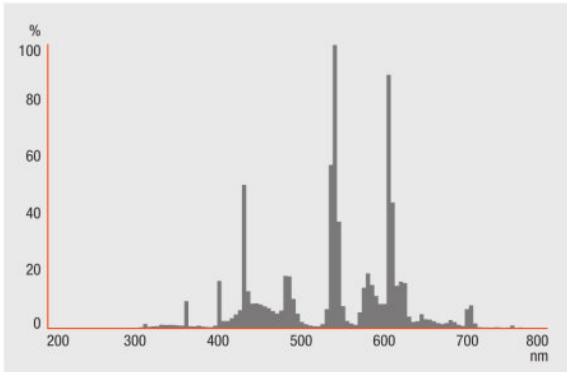
| | |
|---------------------|-----|
| Dimmable | Yes |
| Suitable for indoor | Yes |

Certificates & standards

| | |
|-------------------------|--------------|
| Energy efficiency class | A+ |
| Energy consumption | 23 kWh/1000h |

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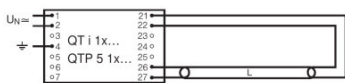
Light Distribution



Spectral power distribution

System guarantee

OSRAM System+ Guarantee in combination with OSRAM ECGs



Circuit diagram



Circuit diagram

Logistical Data

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

Product datasheet

| | | | | | |
|---------------|-------------|--|----------------------------|-----------------------|-----------|
| 4050300464701 | HE 21 W/840 | Shipping carton box 40 Pieces Sleeves | 900 mm x 88 mm x 194 mm | 15.36 dm ³ | 3530.00 g |
| 4050300591407 | HE 21 W/840 | Shipping carton box 20 Pieces Sleeves | 887 mm x 90 mm x 110 mm | 8.78 dm ³ | 2134.00 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

Disclaimer

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

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of LEDVANCE for Digital Lighting
Systems and Components

OSRAM

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HE 21 W/840

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

| Product name | Product name ECG | EAN | Nominal current | Nominal wattage + Power loss | Luminous flux at 35 °C | Number of lighting outlets |
|--------------|--------------------------|---------------|-----------------|------------------------------|------------------------|----------------------------|
| HE 21 W/840 | QT-ECO 1x18-21/220-240 S | 4050300794907 | 0.17 A | 23.00 W | 1800 lm | 1 |
| | QT-FIT 5 1x14-35 | 4008321971234 | 0.11 A | 23.00 W | 1900 lm | 1 |
| | QT-FIT 5 2x14-35 | 4008321971258 | 0.22 A | 46.00 W | 1900 lm | 2 |
| | QTi 1x14/24/21/39 GII | 4008321383334 | 0.11 A | 24.00 W | 1900 lm | 1 |
| | QTi 1x21/39 DIM | 4050300870564 | 0.11 A | 23.10 W | 1900 lm | 1 |
| | QTi 1x28/54/35/49 GII | 4008321383358 | 0.11 A | 24.00 W | 1900 lm | 1 |
| | QTi 1x35/49/80 GII | 4008321383372 | 0.11 A | 25.00 W | 1900 lm | 1 |
| | QTi 2x14/24/21/39 GII | 4008321383396 | 0.20 A | 45.00 W | 1900 lm | 2 |
| | QTi 2x21/39 DIM | 4050300870694 | 0.21 A | 45.00 W | 1900 lm | 2 |
| | QTi 2x28/54/35/49 GII | 4008321383419 | 0.20 A | 45.00 W | 1900 lm | 2 |
| | QTi 2x35/49/80 GII | 4008321658951 | 0.23 A | 49.00 W | 2000 lm | 2 |
| | QTi DALI 1x21/39 DIM | 4050300870366 | 0.11 A | 23.10 W | 1900 lm | 1 |
| | QTi DALI 2x21/39 DIM | 4050300870489 | 0.21 A | 45.00 W | 1900 lm | 2 |
| | QTP5 1x14-35 | 4008321329035 | 0.11 A | 24.00 W | 1900 lm | 1 |
| | QTP5 2x14-35 | 4008321329073 | 0.20 A | 45.00 W | 1900 lm | 2 |

| Product name | Product name ECG | EAN | EEI – Energy Label |
|--------------|--------------------------|---------------|--------------------|
| HE 21 W/840 | QT-ECO 1x18-21/220-240 S | 4050300794907 | A3 |

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| Product name | Product name ECG | EAN | EEI – Energy Label |
|--------------|-----------------------|---------------|--------------------|
| | QT-FIT 5 1x14-35 | 4008321971234 | |
| | QT-FIT 5 2x14-35 | 4008321971258 | |
| | QTi 1x14/24/21/39 GII | 4008321383334 | |
| | QTi 1x21/39 DIM | 4050300870564 | |
| | QTi 1x28/54/35/49 GII | 4008321383358 | |
| | QTi 1x35/49/80 GII | 4008321383372 | |
| | QTi 2x14/24/21/39 GII | 4008321383396 | |
| | QTi 2x21/39 DIM | 4050300870694 | |
| | QTi 2x28/54/35/49 GII | 4008321383419 | |
| | QTi 2x35/49/80 GII | 4008321658951 | |
| | QTi DALI 1x21/39 DIM | 4050300870366 | |
| | QTi DALI 2x21/39 DIM | 4050300870489 | |
| | QTP5 1x14-35 | 4008321329035 | |
| | QTP5 2x14-35 | 4008321329073 | |