

# PRODUCT DATASHEET

## HE ES 19 W/840

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**

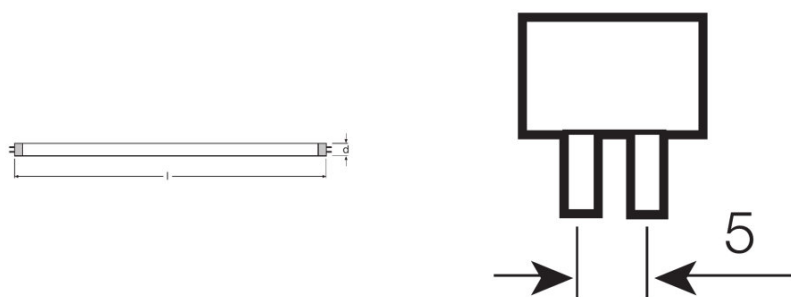
Electrical data

Rated lamp efficacy (HF data 25 °C)	96 lm/W
Rated wattage	18.80 W
Nominal wattage	18.80 W

Photometrical data

Color rendering index Ra	≥80
Rated luminous flux	1800 lm
Luminous flux at 25 °C	1800 lm
Luminous flux at 35 °C	2100 lm
Light color	840
Rated color temperature	4000 K
Nominal luminous flux	1800 lm
Light color (designation)	LUMILUX Cool White
Rated LLMF at 2,000 h	0.96
Rated LLMF at 4,000 h	0.95
Rated LLMF at 6,000 h	0.94
Rated LLMF at 8,000 h	0.93
Rated LLMF at 12,000 h	0.91
Rated LLMF at 16,000 h	0.90
Rated LLMF at 20,000 h	0.89
Color temperature	4000 K
Luminous flux	1800 lm
Color rendering index Ra	≥80

Dimensions & weight



Tube diameter	16 mm
Length	849.0 mm

<b>Length with base excl. base pins/connection</b>	849.00 mm
<b>Diameter</b>	16.0 mm
<b>Maximum diameter</b>	16.0 mm

### Temperatures & operating conditions

<b>Rated ambient temp.w.max.luminous flux</b>	35.0 °C
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### Lifespan

<b>Service life</b>	19000 h <sup>1)</sup>
<b>Lifespan</b>	24000 h <sup>1)</sup>
<b>Rated lamp survival factor at 2,000 h</b>	0.99
<b>Rated lamp survival factor at 4,000 h</b>	0.99
<b>Rated lamp survival factor at 6,000 h</b>	0.99
<b>Rated lamp survival factor at 8,000 h</b>	0.99
<b>Rated lamp survival factor at 12,000 h</b>	0.99
<b>Rated lamp survival factor at 16,000 h</b>	0.99
<b>Rated lamp survival factor at 20,000 h</b>	0.94
<b>Operation mode LLMF/LSF</b>	HF
<b>Rated lamp life time</b>	25000 h
<b>Nominal lamp life time</b>	25000 h

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

### Additional product data

<b>Base (standard designation)</b>	G5
<b>Mercury content</b>	1.2 mg
<b>Show WEEE picto</b>	Yes
<b>Product remark</b>	For ECG operation only/Lamp designed for internal luminaire temperatures of 30...40 °C; optimum luminous flux achieved at 35 °C

### Capabilities

<b>Dimmable</b>	Yes
<b>Suitable for indoor</b>	Yes

### Certificates & standards

<b>Energy efficiency class</b>	A+
<b>Energy consumption</b>	21 kWh/1000h

Light Distribution



Spectral power distribution

Wiring Diagram



Wiring diagram



Wiring diagram

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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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**LOGISTICAL DATA**

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4008321734020	Sleeves 1	877 mm x 19 mm x 27 mm	88.00 g	0.45 dm <sup>3</sup>
4008321734037	Shipping carton box 20	883 mm x 106 mm x 83 mm	2104.00 g	7.77 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.

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**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.

## LUMILUX T5 HE ES | Tubular fluorescent lamps 16 mm, high efficiency, energy saver, 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 ES 19 W/840	QT-FIT 5 1x14-35	4008321971234	0.10 A	21.00 W	1800 lm	1
	QT-FIT 5 2x14-35	4008321971258	0.19 A	43.00 W	1800 lm	2
	QTi 1x14/24/21/39 GII	4008321383334	0.10 A	22.00 W	1800 lm	1
	QTi 1x28/54/35/49 GII	4008321383358	0.10 A	22.00 W	1800 lm	1
	QTi 1x35/49/80 GII	4008321383372	0.10 A	22.00 W	1800 lm	1
	QTi 2x14/24/21/39 GII	4008321383396	0.18 A	42.00 W	1800 lm	2
	QTi 2x28/54/35/49 GII	4008321383419	0.18 A	42.00 W	1800 lm	2
	QTi 2x35/49/80 GII	4008321658951	0.21 A	43.00 W	1800 lm	2
	QTP5 1x14-35	4008321329035	0.10 A	22.00 W	1800 lm	1
	QTP5 2x14-35	4008321329073	0.185 A	42.00 W	1800 lm	2