

# PRODUCT DATASHEET

## FP HO ECO 80W 830

SYLVANIA PENTRON® 800 HO ECOLOGIC® High Output T5 Linear Fluorescent Lamps | High output T5 lamps delivering strong lumen performance in compact designs



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### Areas of application

- Canopy lighting
- High bay fixtures
- Suspended Direct/Indirect luminaires
- Security lighting
- Signage
- Cove

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### Product features

- Up to 45,000 hours lamp life
- High efficacy: 94 LPW
- 93 % lumen rating ensures light levels are maintained while saving energy
- Peak lumen output at 95°F (35°C)
- Greater luminaire design flexibility
- Small lamp profile allows for more compact, high light output options
- TCLP and RoHS compliant
- Lead free glass
- CRI 85

## TECHNICAL DATA

### Electrical data

Nominal wattage	80 W
Construction wattage	80.00 W
Rated lamp efficacy (HF data 25 °C)	77

### Photometrical data

Luminous flux	6150 lm
Luminous efficacy	76 lm/W
Color temperature	3000 K
Color rendering index Ra	85
Light color	830
Rated LLMF at 2,000 h	0.93
Rated LLMF at 4,000 h	0.87
Rated LLMF at 6,000 h	0.86
Rated LLMF at 8,000 h	0.86
Rated LLMF at 12,000 h	0.85
Rated LLMF at 16,000 h	0.85
Rated LLMF at 20,000 h	0.85
Rated lamp efficacy (HF data 25 °C)	77

### Dimensions & Weight

Overall length	1463.29 mm
Diameter	17.02 mm
Maximum diameter	16 mm
Product weight	119.00 g

### Temperatures & operating conditions

Rated ambient temp.w.max.luminous	35.0 °C
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### Lifespan

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	0.93

Rated lamp survival factor at 16,000	0.87
Rated lamp survival factor at 20,000 h	0.50
Operation mode LLMF/LSF	HF

#### Additional product data

Base (standard designation)	G5
Mercury content	1.8 mg
NAED	20935

#### Capabilities

Suitable for indoor	Yes
Dimmable	No

#### Certificates & Standards

Energy efficiency class	A
Energy consumption	87.78 kWh/1000h

#### Country-specific categorizations

Order reference	FP 80W/830/HO/E
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#### Energy labelling regulation data acc EU 2019/2015

Light source cap-type (or other electric interface)	G5
Length	1524.00 mm
Height	17.02 mm
Width	17.02 mm

#### Safety advice

- PENTRON HO ECO lamps are about 2" shorter than T8 & T12 Bi-Pin lamps.
- Miniature Bi-Pin bases will not install into T8 & T12 sockets.
- Miniature Bi-Pin bases require UL Listed 600 Volt rated sockets.
- Requires programmed rapid start electronic ballasts with end-of-lamp life sensing circuit.
- Apply thermal factor in calculations for use in exterior or unheated applications.

#### DOWNLOAD DATA

Spec Sheets and Product Documents		Document name
	Product information bulletin	PENTRON HO ECOLOGIC T5 Fluorescent Lamps

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
0046135209352	Unpacked 1		137.00 g	
10046135209359	Shipping box 40	195 mm x 86 mm x 1,495 mm	6051.00 g	25.03 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.

DISCLAIMER

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