

PRODUCT DATASHEET

FP ECO 28W 850

SYLVANIA PENTRON® 800 ECOLOGIC® High Performance T5 Linear Fluorescent Lamps | High performance T5 lamps offering flexible design and crisp, quality light



Areas of application

- Cove and valance
- Direct/indirect luminaires
- Façade luminaires
- Low profile surface mount
- Shallow recessed fixtures
- Showcase
- Signage

Product features

- Up to 104 LPW
- 95 % lumen rating ensures light levels are maintained while saving energy
- Peak lumen output at 95°F (35°C)
- Dimmable
- Ideal for occupancy sensor
- Up to 36,000 hours lamp life
- TCLP and RoHS compliant
- Lead free glass
- Greater luminaire design flexibility
- CRI 85



TECHNICAL DATA

Electrical data

Nominal wattage	28 W
Construction wattage	27.90 W
Rated lamp efficacy (HF data 25 °C)	90

Photometrical data

Luminous flux	2500 lm
Luminous efficacy	89 lm/W
Color temperature	5000 K
Color rendering index Ra	≥80
Light color	850
Rated LLMF at 2,000 h	0.98
Rated LLMF at 4,000 h	0.97
Rated LLMF at 6,000 h	0.96
Rated LLMF at 8,000 h	0.95
Rated LLMF at 12,000 h	0.95
Rated LLMF at 16,000 h	0.94
Rated LLMF at 20,000 h	0.92
Rated lamp efficacy (HF data 25 °C)	90

Dimensions & Weight

Overall length	1149.00 mm
Length with base excl. base pins/connection	549,00 mm
Diameter	16.00 mm
Tube diameter	16 mm
Maximum diameter	16 mm
Product weight	108.00 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	0.99
Rated lamp survival factor at 16,000	0.98
Rated lamp survival factor at 20,000 h	0.92
Operation mode LLMF/LSF	HF

Additional product data

Base (standard designation)	G5
Mercury content	1.8 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
NAED	22203

Capabilities

Suitable for indoor	Yes
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Certificates & Standards

Energy efficiency class	A+
Energy consumption	30.69 kWh/1000h

Country-specific categorizations

Order reference	FP 28W/850/ECO
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Energy labelling regulation data acc EU 2019/2015

Light source cap-type (or other electric interface)	G5
Length	1149.00 mm
Height	16.00 mm
Width	16.00 mm

Safety advice

- PENTRON 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.
- PENTRON ECO should be operated at same current between all nominal lengths.
- Apply thermal factor in calculations for use in exterior or unheated applications.

DOWNLOAD DATA

Documents and certificates		Document name
	Product information bulletin	PENTRON ECOLOGIC T5 Fluorescent Lamps

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
0046135222030	Unpacked 1		108.00 g	
10046135222037	Shipping box 40	1,194 mm x 206 mm x 84 mm	4894.00 g	20.64 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.