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The original!

MASTER PL-S is an efficient low-wattage compact fluorescent lamp, typically used for decorative and orientation purposes. The original Philips-invented bridge technology guarantees optimum performance in the application, enabling more light and higher efficacy than the bended technology. The 4-pin version is designed for operation on electronic gear and is provided with a plug-in/pull-out lamp base.

Benefits

- Optimal light performance for short or long operation per switch-on
- Multiple light color choice
- Good color rendering (CRI > 80)
- Dimming possible down to 10%

Features

- 4-pin base
- Fluorescent tri-phosphor technology
- Low light depreciation over lamp life

Environment

- Good environmental choice because of high energy efficiency, long life and low light output depreciation, lowest mercury content

- Compliant with all RoHS and WEEE requirements: the lamps have a very low content of mercury, are lead free and make no use of radioactive materials and hazardous flame retardants

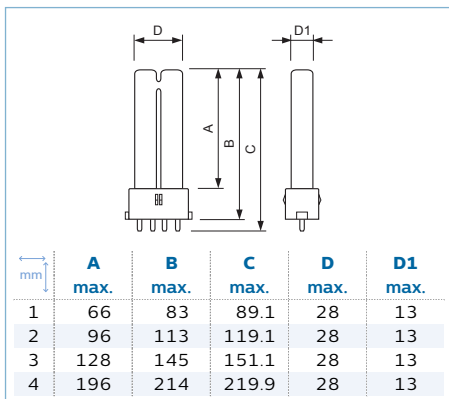
Application

- Designed for use in hotels, restaurants, theatres and homes
- Suitable for use in signs, corridors, security and orientation lighting

Warnings and Safety

- Lamp light technical and electrical characteristics are influenced by operating conditions, i. e. lamp ambient temperature and operating position as well as applied HF control gear
- Shorter lamp life when often switching and not well pre-heated electrodes
- A lamp breaking is extremely unlikely to have any impact on your health. If a lamp breaks, ventilate the room for 30 minutes and remove the parts, preferably with gloves. Put them in a sealed plastic bag and take it to your local waste facilities for recycling. Do not use a vacuum cleaner.

Dimension Drawing



Product Range



Main Data


MASTER PL-S

Wattage/Light source color/Pins	SAP Packing (Piece)/Packaging configuration	Cap-Base	Luminous Flux (Rated) (lm)	Life to 50% Failures Preheat (h)	Energy Consumption kWh/1000 h (kWh)	Photo letter	Ordering number 8711500...
5.4W/827/4P	CT / 50	2G7	259	13,000	6	A 1	26051270
5.4W/840/4P	CT / 50	2G7	259	13,000	6	A 1	26054370
7.1W/830/4P	CT / 50	2G7	405	13,000	8	A 2	26073470
7.1W/840/4P	CT / 50	2G7	405	13,000	8	A 2	26076570
8.6W/827/4P	CT / 50	2G7	583	13,000	9	A 3	26090170

More data see next page



MASTER PL-S

Wattage/Light source color/Pins	SAP Packing (Piece)/Packaging configuration	Cap-Base	Luminous Flux (Rated)	Life to 50% Failures Preheat	Energy Consumption kWh/1000 h		Photo letter	Ordering number 8711500...
			(lm)	(h)	(kWh)			
8.6W/830/4P	CT / 50	2G7	583	13,000	9	A 3	C	26093270
8.6W/840/4P	CT / 50	2G7	583	13,000	9	A 3	C	26096370
11.6W/827/4P	CT / 50	2G7	880	13,000	13	A 4	D	26114470
11.6W/830/4P	CT / 50	2G7	900	13,000	13	A 4	D	26119970
11.6W/840/4P	CT / 50	2G7	900	13,000	13	A 4	D	26122970

Electrical data

Commercial product name	Lamp Current (A)	Lamp power (W)
MASTER PL-S 5W/827/4P 1CT/5X10BOX	0.180	5.4
MASTER PL-S 5W/840/4P 1CT/5X10BOX	0.180	5.4
MASTER PL-S 7W/830/4P 1CT/5X10BOX	0.175	7.1
MASTER PL-S 7W/840/4P 1CT/5X10BOX	0.175	7.1
MASTER PL-S 9W/827/4P 1CT/5X10BOX	0.170	8.6
MASTER PL-S 9W/830/4P 1CT/5X10BOX	0.170	8.6
MASTER PL-S 9W/840/4P 1CT/5X10BOX	0.170	8.6
MASTER PL-S 11W/827/4P 1CT/5X10BOX	0.160	11.6
MASTER PL-S 11W/830/4P 1CT/5X10BOX	0.160	11.6
MASTER PL-S 11W/840/4P 1CT/5X10BOX	0.160	11.6

Lifetime data

Commercial product name	Life to 10% Failures Non Preheat	Life to 10% Failures Preheat	Life to 50% Failures Non Preheat	Life to 50% Failures Preheat
	(h)	(h)	(h)	(h)
MASTER PL-S 5W/827/4P 1CT/5X10BOX	4,500	8,000	7,000	13,000
MASTER PL-S 5W/840/4P 1CT/5X10BOX	4,500	8,000	7,000	13,000
MASTER PL-S 7W/830/4P 1CT/5X10BOX	4,500	8,000	7,000	13,000
MASTER PL-S 7W/840/4P 1CT/5X10BOX	4,500	8,000	7,000	13,000
MASTER PL-S 9W/827/4P 1CT/5X10BOX	4,500	8,000	7,000	13,000
MASTER PL-S 9W/830/4P 1CT/5X10BOX	4,500	8,000	7,000	13,000
MASTER PL-S 9W/840/4P 1CT/5X10BOX	4,500	8,000	7,000	13,000
MASTER PL-S 11W/827/4P 1CT/5X10BOX	4,500	8,000	7,000	13,000
MASTER PL-S 11W/830/4P 1CT/5X10BOX	4,500	8,000	7,000	13,000
MASTER PL-S 11W/840/4P 1CT/5X10BOX	4,500	8,000	7,000	13,000

Color data

Commercial product name	Colour Rendering Index	Light source color ¹	Color Designation
MASTER PL-S 5W/827/4P 1CT/5X10BOX	82	827	Incandescent White
MASTER PL-S 5W/840/4P 1CT/5X10BOX	80	840	Cool White (CW)
MASTER PL-S 7W/830/4P 1CT/5X10BOX	82	830	Warm White (WW)
MASTER PL-S 7W/840/4P 1CT/5X10BOX	82	840	Cool White (CW)
MASTER PL-S 9W/827/4P 1CT/5X10BOX	82	827	Incandescent White
MASTER PL-S 9W/830/4P 1CT/5X10BOX	82	830	Warm White (WW)
MASTER PL-S 9W/840/4P 1CT/5X10BOX	82	840	Cool White (CW)
MASTER PL-S 11W/827/4P 1CT/5X10BOX	82	827	Incandescent White
MASTER PL-S 11W/830/4P 1CT/5X10BOX	82	830	Warm White (WW)
MASTER PL-S 11W/840/4P 1CT/5X10BOX	82	840	Cool White (CW)

¹ 'Light source color' value description(s): '827' = CCT of 2700K, '830' = CCT of 3000K, '840' = CCT of 4000K



Luminous flux/efficacy/intensity data

Commercial product name	Luminous Flux (Rated) (lm)	Luminous Flux (lm)	Luminous Efficacy (Rated) (lm/W)
MASTER PL-S 5W/827/4P 1CT/5X10BOX	259	250	52.0
MASTER PL-S 5W/840/4P 1CT/5X10BOX	259	250	52.0
MASTER PL-S 7W/830/4P 1CT/5X10BOX	405	400	62.0
MASTER PL-S 7W/840/4P 1CT/5X10BOX	405	400	62.0
MASTER PL-S 9W/827/4P 1CT/5X10BOX	583	600	73.0
MASTER PL-S 9W/830/4P 1CT/5X10BOX	583	600	73.0
MASTER PL-S 9W/840/4P 1CT/5X10BOX	583	600	73.0
MASTER PL-S 11W/827/4P 1CT/5X10BOX	880	900	80.0
MASTER PL-S 11W/830/4P 1CT/5X10BOX	900	900	82.0
MASTER PL-S 11W/840/4P 1CT/5X10BOX	900	900	82.0




Rated Lumen Maintenance data

Commercial product name	LLMF 2000 h Rated (%)	LLMF 4000 h Rated (%)	LLMF 6000 h Rated (%)	LLMF 8000 h Rated (%)	LLMF 12000 h Rated (%)
MASTER PL-S 5W/827/4P 1CT/5X10BOX	95	92	90	88	86
MASTER PL-S 5W/840/4P 1CT/5X10BOX	95	92	90	88	86
MASTER PL-S 7W/830/4P 1CT/5X10BOX	95	92	90	88	86
MASTER PL-S 7W/840/4P 1CT/5X10BOX	95	92	90	88	86
MASTER PL-S 9W/827/4P 1CT/5X10BOX	95	92	90	88	86
MASTER PL-S 9W/830/4P 1CT/5X10BOX	95	92	90	88	86
MASTER PL-S 9W/840/4P 1CT/5X10BOX	95	92	90	88	86
MASTER PL-S 11W/827/4P 1CT/5X10BOX	95	92	90	88	86
MASTER PL-S 11W/830/4P 1CT/5X10BOX	95	92	90	88	86
MASTER PL-S 11W/840/4P 1CT/5X10BOX	95	92	90	88	86

Temperature data

Commercial product name	Correlated Color Temperature (K)	Design Temperature (°C)	Default Ambient Temperature (°C)
MASTER PL-S 5W/827/4P 1CT/5X10BOX	2,700	28	25
MASTER PL-S 5W/840/4P 1CT/5X10BOX	4,000	28	25
MASTER PL-S 7W/830/4P 1CT/5X10BOX	3,000	28	25
MASTER PL-S 7W/840/4P 1CT/5X10BOX	4,000	28	25
MASTER PL-S 9W/827/4P 1CT/5X10BOX	2,700	28	25
MASTER PL-S 9W/830/4P 1CT/5X10BOX	3,000	28	25
MASTER PL-S 9W/840/4P 1CT/5X10BOX	4,000	28	25
MASTER PL-S 11W/827/4P 1CT/5X10BOX	2,700	28	25
MASTER PL-S 11W/830/4P 1CT/5X10BOX	3,000	28	25
MASTER PL-S 11W/840/4P 1CT/5X10BOX	4,000	28	25

Environmental data & ETIM group & Design Requirements

Commercial product name	Energy Consumption kWh/ 1000 h (kWh)		Mercury (Hg) Content (mg)	ETIM Group ²
MASTER PL-S 5W/827/4P 1CT/5X10BOX	6	A	1.4	EC000087
MASTER PL-S 5W/840/4P 1CT/5X10BOX	6	A	1.4	EC000087
MASTER PL-S 7W/830/4P 1CT/5X10BOX	8	A	1.4	EC000087
MASTER PL-S 7W/840/4P 1CT/5X10BOX	8	A	1.4	EC000087
MASTER PL-S 9W/827/4P 1CT/5X10BOX	9	A	1.4	EC000087
MASTER PL-S 9W/830/4P 1CT/5X10BOX	9	A	1.4	EC000087
MASTER PL-S 9W/840/4P 1CT/5X10BOX	9	A	1.4	EC000087
MASTER PL-S 11W/827/4P 1CT/5X10BOX	13	A	1.4	EC000087
MASTER PL-S 11W/830/4P 1CT/5X10BOX	13	A	1.4	EC000087
MASTER PL-S 11W/840/4P 1CT/5X10BOX	13	A	1.4	EC000087


² 'ETIM Group' value description(s): 'EC000087' = Compact Fluor Lamp Non Integrated

Rated Survival Factor data

Commercial product name	LSF Preheat 2000 h Rated (%)	LSF Preheat 4000 h Rated (%)	LSF Preheat 6000 h Rated (%)	LSF Preheat 8000 h Rated (%)	LSF Preheat 12000 h Rated (%)	LSF Preheat 16000 h Rated (%)
MASTER PL-S 5W/827/4P 1CT/5X10BOX	99	98	97	92	66	30
MASTER PL-S 5W/840/4P 1CT/5X10BOX	99	98	97	92	66	30
MASTER PL-S 7W/830/4P 1CT/5X10BOX	99	98	97	92	66	30
MASTER PL-S 7W/840/4P 1CT/5X10BOX	99	98	97	92	66	30
MASTER PL-S 9W/827/4P 1CT/5X10BOX	99	98	97	92	66	30
MASTER PL-S 9W/830/4P 1CT/5X10BOX	99	98	97	92	66	30
MASTER PL-S 9W/840/4P 1CT/5X10BOX	99	98	97	92	66	30
MASTER PL-S 11W/827/4P 1CT/5X10BOX	99	98	97	92	66	30
MASTER PL-S 11W/830/4P 1CT/5X10BOX	99	98	97	92	66	30
MASTER PL-S 11W/840/4P 1CT/5X10BOX	99	98	97	92	66	30



Operating data

Commercial product name	Default Burning Position	Default Gear		Default Cycle Time
MASTER PL-S 5W/827/4P 1CT/5X10BOX	Base up	Electronic	Yes	3 hour cycle
MASTER PL-S 5W/840/4P 1CT/5X10BOX	Base up	Electronic	Yes	3 hour cycle
MASTER PL-S 7W/830/4P 1CT/5X10BOX	Base up	Electronic	Yes	3 hour cycle
MASTER PL-S 7W/840/4P 1CT/5X10BOX	Base up	Electronic	Yes	3 hour cycle
MASTER PL-S 9W/827/4P 1CT/5X10BOX	Base up	Electronic	Yes	3 hour cycle
MASTER PL-S 9W/830/4P 1CT/5X10BOX	Base up	Electronic	Yes	3 hour cycle
MASTER PL-S 9W/840/4P 1CT/5X10BOX	Base up	Electronic	Yes	3 hour cycle
MASTER PL-S 11W/827/4P 1CT/5X10BOX	Base up	Electronic	Yes	3 hour cycle
MASTER PL-S 11W/830/4P 1CT/5X10BOX	Base up	Electronic	Yes	3 hour cycle
MASTER PL-S 11W/840/4P 1CT/5X10BOX	Base up	Electronic	Yes	3 hour cycle

Miscellaneous & General data

Commercial product name	Cap-Base	Cap-Base Information ³	ILCOS Code
MASTER PL-S 5W/827/4P 1CT/5X10BOX	2G7	4P	FSD-5/27/1B-E-2G7
MASTER PL-S 5W/840/4P 1CT/5X10BOX	2G7	4P	FSD-5/40/1B-E-2G7
MASTER PL-S 7W/830/4P 1CT/5X10BOX	2G7	4P	FSD-7/30/1B-E-2G7
MASTER PL-S 7W/840/4P 1CT/5X10BOX	2G7	4P	FSD-7/40/1B-E-2G7
MASTER PL-S 9W/827/4P 1CT/5X10BOX	2G7	4P	FSD-9/27/1B-E-2G7
MASTER PL-S 9W/830/4P 1CT/5X10BOX	2G7	4P	FSD-9/30/1B-E-2G7
MASTER PL-S 9W/840/4P 1CT/5X10BOX	2G7	4P	FSD-9/40/1B-E-2G7
MASTER PL-S 11W/827/4P 1CT/5X10BOX	2G7	4P	FSD-11/27/1B-E-2G7
MASTER PL-S 11W/830/4P 1CT/5X10BOX	2G7	4P	FSD-11/30/1B-E-2G7
MASTER PL-S 11W/840/4P 1CT/5X10BOX	2G7	4P	FSD-11/40/1B-E-2G7

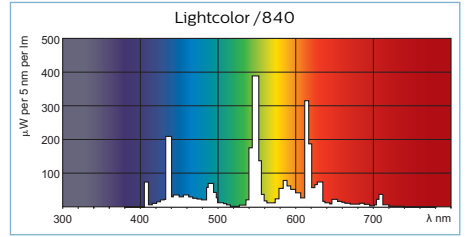
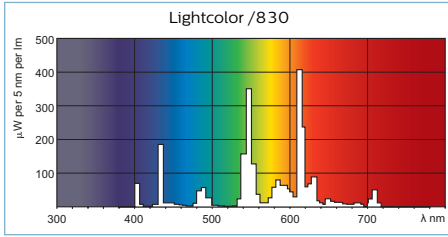
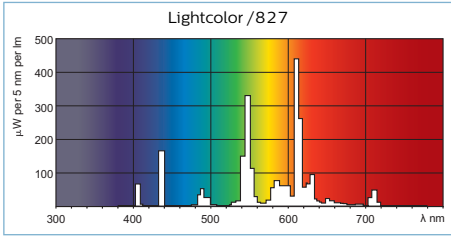
³ 'Cap-Base Information' value description(s): '4P' = 4 Pins

Logistic data

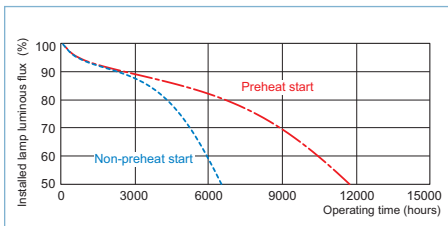
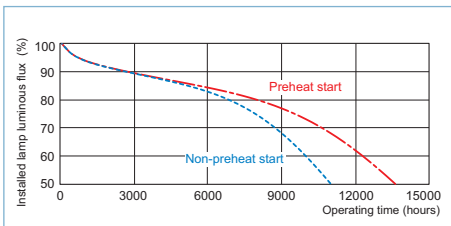
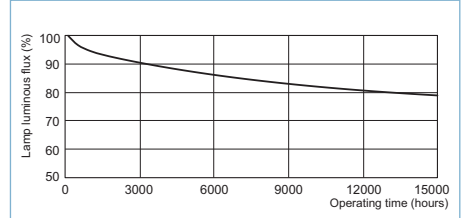
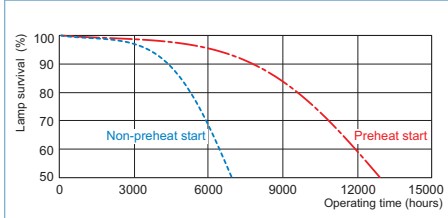
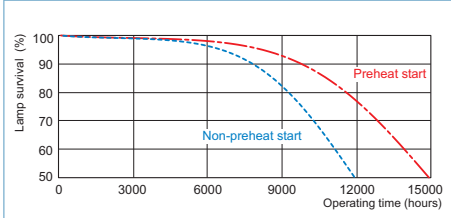
Commercial product name	SAP Packing (Piece)/Packaging configuration ⁴	Numerator - Packs per outer box	Ordering number 8711500...	Material Nr. (12NC) (9279...)	SAP Gross Weight (Piece) (g)	Net Weight (Piece) (g)	EAN-3 8711500...
MASTER PL-S 5W/827/4P 1CT/5X10BOX	CT / 50	50	26051270	35482711	27.84	20	260536
MASTER PL-S 5W/840/4P 1CT/5X10BOX	CT / 50	50	26054370	35484011	27.84	20	260567
MASTER PL-S 7W/830/4P 1CT/5X10BOX	CT / 50	50	26073470	35883011	33.40	24	260758
MASTER PL-S 7W/840/4P 1CT/5X10BOX	CT / 50	50	26076570	35884011	33.40	24	260789
MASTER PL-S 9W/827/4P 1CT/5X10BOX	CT / 50	50	26090170	36282711	40.80	30	260925
MASTER PL-S 9W/830/4P 1CT/5X10BOX	CT / 50	50	26093270	36283011	40.78	30	260956
MASTER PL-S 9W/840/4P 1CT/5X10BOX	CT / 50	50	26096370	36284011	40.78	30	260987
MASTER PL-S 11W/827/4P 1CT/5X10BOX	CT / 50	50	26114470	36682711	55.40	41	261168
MASTER PL-S 11W/830/4P 1CT/5X10BOX	CT / 50	50	26119970	36683011	55.40	41	261212
MASTER PL-S 11W/840/4P 1CT/5X10BOX	CT / 50	50	26122970	36684011	55.40	41	261243

⁴ 'SAP Packing (Piece)/Packaging configuration' value description(s): 'CT / 50' = CARTON

Spectral power distribution



Performance diagrams



Cap - Base Overview

