



The longest life and most reliable solution in road lighting

MASTER SON-T APIA Plus Xtra

High Pressure Sodium lamp with clear tubular outer bulb shape, high output and longest reliable lifetime

Benefits

- Most-cost effective solution (both initial as well as running cost) in this category
- 6 years service life
- Highest lumen output, maintained over life

Features

- Completely lead-free lamps with tubular outer bulb
- Ceramic discharge tube with new Active Philips Integrated Antenna (APIA) for up to 6 years service lifetime (Xtra)
- Robust construction with few welding points is highly vibration- and shock-resistant, further reducing early failures and extending lamp life
- "Plus" concept with high efficacy for high light output
- Special versions of the 250W and 400W lamps of the MASTER SON(-T) APIA Plus Xtra range are compatible with electronic gear using HF operation of the lamps. HF Control gear requirements (LDi guideline) and lamp performance specifications on HF ballasts can be obtained from the local Philips representative

Application

- Road and residential lighting
- Decorative floodlighting, illumination
- Industrial area lighting
- Recreational sports facilities indoor and outdoor

MASTER SON-T APIA Plus Xtra

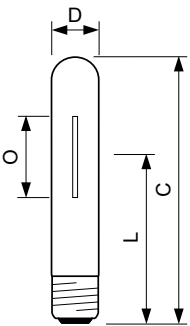
Warnings and Safety

- Control gear must include end-of-life protection (IEC60662, IEC 62035)
- HF gear must comply with Philips LDi guideline
- 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.

Versions



Dimensional drawing



Product

MASTER SON-T APIA Plus Xtra 250W E40 1SL/12

MASTER SON-T APIA Plus Xtra 150W E40 1SL/12

MASTER SON-T APIA Plus Xtra 400W E40 1SL/12

MASTER SON-T APIA Plus Xtra

Controls and Dimming

Dimmable	Yes
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Operating and Electrical

Voltage (Max)	115 V
Voltage (Min)	85 V
Voltage (Nom)	100 V

General Information

Cap-Base	E40
Life To 10% Failures (Nom)	32000 h
Life To 20% Failures (Nom)	36500 h
Life To 50% Failures (Nom)	45000 h
Life To 5% Failures (Nom)	28000 h
LSF 12000 h Rated	99 %
LSF 16000 h Rated	99 %
LSF 2000 h Rated	100 %
LSF 20000 h Rated	99 %
LSF 4000 h Rated	99 %
LSF 6000 h Rated	99 %
LSF 8000 h Rated	99 %
Operating Position	UNIVERSAL
System Description	External Ignitor (E)

Luminaire Design Requirements

Bulb Temperature (Max)	450 °C
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Light Technical

Colour Code	-
Correlated Colour Temperature (Nom)	1950 K
Colour Rendering Index (Max)	25
LLMF 12000 h Rated	96 %
LLMF 16000 h Rated	95 %
LLMF 2000 h Rated	99 %
LLMF 20000 h Rated	94 %
LLMF 4000 h Rated	98 %
LLMF 6000 h Rated	97 %
LLMF 8000 h Rated	96 %

Mechanical and Housing

Bulb Finish	Clear
Bulb Shape	T46

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Energy Efficiency Label (EEL)	Mercury (Hg) Content (Nom)
92733700	MASTER SON-T APIA Plus Xtra 150W E40 1SL/12	169 kWh	A+	16 mg
92737500	MASTER SON-T APIA Plus Xtra 250W E40 1SL/12	275 kWh	A+	15.1 mg
92741200	MASTER SON-T APIA Plus Xtra 400W E40 1SL/12	429 kWh	A++	20 mg

Operating and Electrical

Order Code	Full Product Name	Lamp Current (EM) (Nom)	Power (Rated) (Nom)	Re-Ignition Time (Min) (Max)
92733700	MASTER SON-T APIA Plus Xtra 150W E40 1SL/12	1.8 A	154.0 W	180 s
92737500	MASTER SON-T APIA Plus Xtra 250W E40 1SL/12	3 A	250.0 W	120 s

Order Code	Full Product Name	Lamp Current (EM) (Nom)	Power (Rated) (Nom)	Re-Ignition Time (Min) (Max)
92741200	MASTER SON-T APIA Plus Xtra 400W E40 1SL/12	4.5 A	390 W	120 s

MASTER SON-T APIA Plus Xtra

Light Technical (1/2)

Order Code	Full Product Name	Chromaticity		Luminous Efficacy	Luminous Flux
		Coordinate X (Nom)	Coordinate Y (Nom)	(rated) (Nom)	(Rated) (Nom)
92733700	MASTER SON-T APIA Plus Xtra 150W E40 1SL/12	535	420	117 lm/W	18000 lm
92737500	MASTER SON-T APIA Plus Xtra 400W E40 1SL/12	530	420	133 lm/W	33300 lm

Order Code	Full Product Name	Chromaticity		Luminous Efficacy	Luminous Flux
		Coordinate X (Nom)	Coordinate Y (Nom)	(rated) (Nom)	(Rated) (Nom)
92741200	MASTER SON-T APIA Plus Xtra 250W E40 1SL/12	525	425	141 lm/W	55000 lm

Light Technical (2/2)

Order Code	Full Product Name	Ratio Scotopic/Photopic Lumens
92733700	MASTER SON-T APIA Plus Xtra 150W E40 1SL/12	0.55
92737500	MASTER SON-T APIA Plus Xtra 250W E40 1SL/12	0.60
92741200	MASTER SON-T APIA Plus Xtra 400W E40 1SL/12	0.60

