



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

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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.

Controls and Dimming

Dimmable	Yes
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Operating and Electrical

Voltage (Max)	115 V
Voltage (Min)	85 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

Chromaticity Coordinate X (Nom)	0.535
Chromaticity Coordinate Y (Nom)	0.42
Colour Code	-
Correlated Colour Temperature (Nom)	2000 K
Colour Rendering Index (Max)	25
Colour Rendering Index (Nom)	-
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	Mercury (Hg)	Mercury (Hg)
		kWh/1000 h	Content (Max)	Content (Nom)
92733700	MASTER SON-T APIA Plus Xtra 150W E40 1SL/12	154 kWh	15.1 mg	15.1 mg
92737500	MASTER SON-T APIA Plus Xtra 250W E40 1SL/12	255 kWh	15.1 mg	15.1 mg
92741200	MASTER SON-T APIA Plus Xtra 400W E40 1SL/12	397 kWh	19.6 mg	19.6 mg

Operating and Electrical

MASTER SON-T APIA Plus Xtra

Order Code	Full Product Name	Lamp		Power	Re-Ignition
		Current (EM) (Nom)	Voltage (Nom)	(Rated) (Nom)	Time (Min) (Max)
92733700	MASTER SON-T APIA Plus Xtra 150W E40 1SL/12	0.178 A	98 V	154.0 W	180 s
92737500	MASTER SON-T APIA Plus Xtra 250W E40 1SL/12	0.293 A	99 V	255.0 W	120 s

Order Code	Full Product Name	Lamp		Power	Re-Ignition
		Current (EM) (Nom)	Voltage (Nom)	(Rated) (Nom)	Time (Min) (Max)
92741200	MASTER SON-T APIA Plus Xtra 400W E40 1SL/12	0.453 A	98 V	397.0 W	120 s

Light Technical

Order Code	Full Product Name	Luminous Efficacy	Luminous Flux (Nom)	Luminous Flux (Rated)	Ratio Scotopic/Photopic Lumens
		(rated) (Nom)		(Nom)	(Nom)
92733700	MASTER SON-T APIA Plus Xtra 150W E40 1SL/12	118.51 lm/W	18200 lm	18200 lm	0.55
92737500	MASTER SON-T APIA Plus Xtra 250W E40 1SL/12	132 lm/W	33700 lm	33700 lm	0.60

Order Code	Full Product Name	Luminous Efficacy	Luminous Flux (Nom)	Luminous Flux (Rated)	Ratio Scotopic/Photopic Lumens
		(rated) (Nom)		(Nom)	(Nom)
92741200	MASTER SON-T APIA Plus Xtra 400W E40 1SL/12	140 lm/W	55400 lm	55400 lm	0.60

