



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

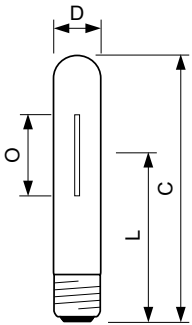
- Road and residential lighting
- Decorative floodlighting, illumination
- Industrial area lighting
- Recreational sports facilities indoor and outdoor

MASTER SON-T APIA Plus Xtra

Versions



Dimensional drawing



| Product | D (max) | O | L | C (max) |
|--|---------|-------|--------|---------|
| MASTER SON-T APIA Plus Xtra 400W E40 1SL/12 | 48 mm | 83 mm | 175 mm | 283 mm |
| MASTER SON-T APIA Plus Xtra 250W E40 1SL/12 | 48 mm | 65 mm | 158 mm | 257 mm |
| MASTER SON-T APIA Plus Xtra 150W E40 1SL/12 | 48 mm | 61 mm | 132 mm | 210 mm |

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Controls and Dimming

| | |
|----------|-----|
| Dimmable | Yes |
|----------|-----|

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 |
|------------------------|--------|

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 (CL) |
| 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 |

