



The highly efficient and most reliable solution in road lighting

MASTER SON APIA Plus Xtra

High Pressure Sodium lamp with opalized outer bulb, high output and longest reliable lifetime

Benefits

Features

Application

Warnings and Safety

MASTER SON APIA Plus Xtra

Versions

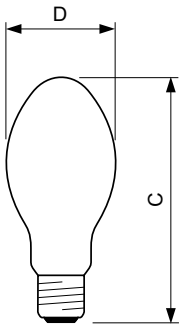


SON APIA Plus Xtra, E27



SON APIA Plus Xtra, E40

Dimensional drawing



Product

MASTER SON APIA Plus Xtra 400W E40 1SL/12
MASTER SON APIA Plus Xtra 250W E40 1SL/12
MASTER SON APIA Plus Xtra 50W E27 1SL/24
MASTER SON APIA Plus Xtra 100W E40 1SL/12
MASTER SON APIA Plus Xtra 70W E27 1SL/24
MASTER SON APIA Plus Xtra 150W E40 1SL/12

Controls and Dimming

Dimmable	Yes
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General Information

LSF 12000 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

Luminaire Design Requirements

Bulb Temperature (Max)	350 °C
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Light Technical

Color Code	-
Color Rendering Index (Max)	25

Mechanical and Housing

Bulb Finish	Coated glass
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Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Energy Efficiency Label (EEL)	Mercury (Hg) Content (Nom)
928150619835	MASTER SON APIA Plus Xtra 50W E27 1SL/24	55 kWh	A	9.8 mg
928150719835	MASTER SON APIA Plus Xtra 70W E27 1SL/24	83 kWh	A+	12.0 mg
928150819827	MASTER SON APIA Plus Xtra 100W E40 1SL/12	110 kWh	A+	16 mg
928150919827	MASTER SON APIA Plus Xtra 150W E40 1SL/12	169 kWh	A+	15 mg
928151019830	MASTER SON APIA Plus Xtra 250W E40 1SL/12	286 kWh	A+	15.1 mg
928151119830	MASTER SON APIA Plus Xtra 400W E40 1SL/12	445 kWh	A++	20 mg

Operating and Electrical (1/2)

MASTER SON APIA Plus Xtra

Order Code	Full Product Name	Lamp	Voltage (Max)	Voltage (Min)	Voltage (Nom)
		Current (EM) (Nom)			
928150619835	MASTER SON APIA Plus Xtra 50W E27 1SL/24	0.76 A	100 V	70 V	85 V
928150719835	MASTER SON APIA Plus Xtra 70W E27 1SL/24	0.95 A	105 V	75 V	94 V
928150819827	MASTER SON APIA Plus Xtra 100W E40 1SL/12	1.2 A	115 V	85 V	100 V

Order Code	Full Product Name	Lamp	Voltage (Max)	Voltage (Min)	Voltage (Nom)
		Current (EM) (Nom)			
928150919827	MASTER SON APIA Plus Xtra 150W E40 1SL/12	1.8 A	115 V	85 V	100 V
928151019830	MASTER SON APIA Plus Xtra 250W E40 1SL/12	2.85 A	115 V	85 V	100 V
928151119830	MASTER SON APIA Plus Xtra 400W E40 1SL/12	4.3 A	120 V	90 V	105 V

Operating and Electrical (2/2)

Order Code	Full Product Name	Power (Rated) (Nom)	Re-Ignition
			Time (Min) (Max)
928150619835	MASTER SON APIA Plus Xtra 50W E27 1SL/24	50.0 W	180 s
928150719835	MASTER SON APIA Plus Xtra 70W E27 1SL/24	75 W	180 s
928150819827	MASTER SON APIA Plus Xtra 100W E40 1SL/12	100.0 W	120 s

Order Code	Full Product Name	Power (Rated) (Nom)	Re-Ignition
			Time (Min) (Max)
928150919827	MASTER SON APIA Plus Xtra 150W E40 1SL/12	154.0 W	180 s
928151019830	MASTER SON APIA Plus Xtra 250W E40 1SL/12	260.0 W	120 s
928151119830	MASTER SON APIA Plus Xtra 400W E40 1SL/12	405.0 W	120 s

General Information (1/2)

Order Code	Full Product Name	Cap-Base	Life To 10%	Life To 20%	Life To 50%
			Failures (Nom)	Failures (Nom)	Failures (Nom)
928150619835	MASTER SON APIA Plus Xtra 50W E27 1SL/24	E27	25000 h	29500 h	38000 h
928150719835	MASTER SON APIA Plus Xtra 70W E27 1SL/24	E27	28000 h	32000 h	40000 h
928150819827	MASTER SON APIA Plus Xtra 100W E40 1SL/12	E40	28000 h	32000 h	40000 h

Order Code	Full Product Name	Cap-Base	Life To 10%	Life To 20%	Life To 50%
			Failures (Nom)	Failures (Nom)	Failures (Nom)
928150919827	MASTER SON APIA Plus Xtra 150W E40 1SL/12	E40	32000 h	36500 h	45000 h
928151019830	MASTER SON APIA Plus Xtra 250W E40 1SL/12	E40	32000 h	36500 h	45000 h
928151119830	MASTER SON APIA Plus Xtra 400W E40 1SL/12	E40	32000 h	36500 h	45000 h

General Information (2/2)

Order Code	Full Product Name	Life To 5%	LSF	LSF	LSF
		Failures (Nom)	16000 h Rated	2000 h Rated	20000 h Rated
928150619835	MASTER SON APIA Plus Xtra 50W E27 1SL/24	21000 h	98 %	99 %	96 %
928150719835	MASTER SON APIA Plus Xtra 70W E27 1SL/24	24000 h	99 %	99 %	97 %

Order Code	Full Product Name	Life To 5%	LSF	LSF	LSF
		Failures (Nom)	16000 h Rated	2000 h Rated	20000 h Rated
928150819827	MASTER SON APIA Plus Xtra 100W E40 1SL/12	24000 h	99 %	99 %	97 %
928150919827	MASTER SON APIA Plus Xtra 150W E40 1SL/12	28000 h	99 %	100 %	99 %

MASTER SON APIA Plus Xtra

Order Code	Full Product Name	Life To 5%	LSF	LSF	LSF
		Failures (Nom)	16000 h Rated	2000 h Rated	20000 h Rated
928151019830	MASTER SON APIA Plus Xtra 250W E40 1SL/12	28000 h	99 %	100 %	99 %

Order Code	Full Product Name	Life To 5%	LSF	LSF	LSF
		Failures (Nom)	16000 h Rated	2000 h Rated	20000 h Rated
928151119830	MASTER SON APIA Plus Xtra 400W E40 1SL/12	28000 h	99 %	100 %	99 %

Light Technical (1/2)

Order Code	Full Product Name	Chromaticity	Chromaticity	Correlated Color	LLMF
		Coordinate X (Nom)	Coordinate Y (Nom)	Temperature (Nom)	12000 h Rated
928150619835	MASTER SON APIA Plus Xtra 50W E27 1SL/24	540	415	1900 K	85 %
928150719835	MASTER SON APIA Plus Xtra 70W E27 1SL/24	540	415	1900 K	85 %
928150819827	MASTER SON APIA Plus Xtra 100W E40 1SL/12	535	420	1950 K	92 %
928150919827	MASTER SON APIA Plus Xtra	535	420	1950 K	96 %

Order Code	Full Product Name	Chromaticity	Chromaticity	Correlated Color	LLMF
		Coordinate X (Nom)	Coordinate Y (Nom)	Temperature (Nom)	12000 h Rated
	150W E40 1SL/12				
928151019830	MASTER SON APIA Plus Xtra 250W E40 1SL/12	530	420	1950 K	96 %
928151119830	MASTER SON APIA Plus Xtra 400W E40 1SL/12	525	425	1950 K	96 %

Light Technical (2/2)

Order Code	Full Product Name	LLMF	LLMF	LLMF	LLMF	LLMF	Luminous	Ratio		
		16000 h Rated	2000 h Rated	20000 h Rated	LLMF 4000 h Rated	LLMF 6000 h Rated	LLMF 8000 h Rated	Efficacy (rated) (Nom)	Scotopic/Photopic Lumens	
928150619835	MASTER SON APIA Plus Xtra 50W E27 1SL/24	84 %	91 %	84 %	88 %	87 %	86 %	76 lm/W	3900 lm	0.50
928150719835	MASTER SON APIA Plus Xtra 70W E27 1SL/24	84 %	91 %	84 %	88 %	87 %	86 %	90 lm/W	6750 lm	0.50
928150819827	MASTER SON APIA Plus Xtra 100W E40 1SL/12	90 %	98 %	89 %	96 %	95 %	94 %	100 lm/W	10000 lm	0.55
928150919827	MASTER SON APIA Plus Xtra 150W E40 1SL/12	95 %	99 %	94 %	98 %	97 %	96 %	114 lm/W	17500 lm	0.55
928151019830	MASTER SON APIA Plus Xtra 250W E40 1SL/12	95 %	99 %	94 %	98 %	97 %	96 %	120 lm/W	31300 lm	0.60
928151119830	MASTER SON APIA Plus Xtra 400W E40 1SL/12	95 %	99 %	94 %	98 %	97 %	96 %	136.5 lm/W	55400 lm	0.60

Mechanical and Housing

Order Code	Full Product Name	Bulb Shape
928150619835	MASTER SON APIA Plus Xtra 50W E27 1SL/24	B70
928150719835	MASTER SON APIA Plus Xtra 70W E27 1SL/24	B70

Order Code	Full Product Name	Bulb Shape
928150819827	MASTER SON APIA Plus Xtra 100W E40 1SL/12	B75
928150919827	MASTER SON APIA Plus Xtra 150W E40 1SL/12	BD90

MASTER SON APIA Plus Xtra

Order Code	Full Product Name	Bulb Shape
928151019830	MASTER SON APIA Plus Xtra 250W E40 1SL/12	BD90
928151119830	MASTER SON APIA Plus Xtra 400W E40 1SL/12	BD90

