



Product Description

SON

High Pressure Sodium lamp with opalized ovoid outer bulb

Benefits

- SON Pro is a cost-efficient and reliable solution in High Pressure Sodium

Features

- Ovoid, internally white coated outer bulb
- High luminous efficacy
- Robust construction is vibration- and shock-resistant leading to a reliable life
- Dimming possible with dedicated gear

Application

- Road and residential lighting
- Decorative floodlighting
- Commercial and industrial applications

Warnings and Safety

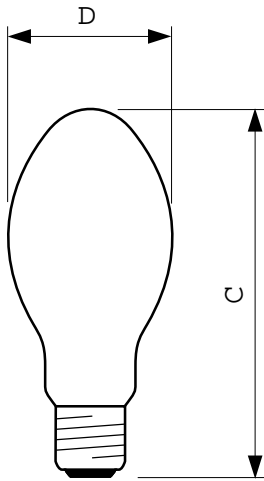
- Control gear must include end-of-life protection (IEC60662, IEC 62035)
- A lamp breaking is extremely unlikely to have any impact on your health. If a lamp breaks, ventilate the room for 30 minutes and remove the parts, preferably with gloves. Put them in a sealed plastic bag and take it to your local waste facilities for recycling. Do not use a vacuum cleaner.

Related products



SON (Internal Ignitor) E27

Dimensional drawing



SON (Internal Ignitor) E27

SON 50W/220 I E27

Product	D	C
SON 50W/220 I E27 1CT/24	71 mm	156 mm

General Information (1/2)

order code	Bulb Shape	Cap-Base	Life To 10% Failures (Nom)	Life To 20% Failures (Nom)	Life To 50% Failures (Nom)	Life To 5% Failures (Nom)	LSF 12000 h Rated	LSF 16000 h Rated	LSF 2000 h Rated	LSF 20000 h Rated
18186230	B70	E27	13000	18000	28000	10000	92	84	99	74
21024130	BF70	E27	-	22000	28000	12000	94	86	99	76
21028915	ED90	E40	-	20000	28000	12000	-	-	-	-
21038815	ED90	E40	-	20000	28000	12000	-	-	-	-
21032615	ED120	E40	-	20000	28000	12000	-	-	-	-
30018515	ED75	E40	12000	-	24000	-	-	-	-	-

General Information (2/2)

order code	LSF 4000 h Rated	LSF 6000 h Rated	LSF 8000 h Rated	Operating Position	System Description
18186230	99	98	97	UNIVERSAL	Internal Ignitor (I)
21024130	99	99	98	UNIVERSAL	External Ignitor (E)
21028915	-	-	-	UNIVERSAL	External Ignitor (E)

order code	LSF 4000 h Rated	LSF 6000 h Rated	LSF 8000 h Rated	Operating Position	System Description
21038815	-	-	-	UNIVERSAL	External Ignitor (E)

order code	LSF 4000 h Rated	LSF 6000 h Rated	LSF 8000 h Rated	Operating Position	System Description
21032615	-	-	-	UNIVERSAL	External Ignitor (E)
30018515	-	-	-	UNIVERSAL	External Ignitor (E)

Light Technical (1/3)

order code	Chromaticity Coordinate X (Nom)	Chromaticity Coordinate Y (Nom)	Correlated Color Temperature (Nom)	Color Rendering Index (Max)	Color Rendering Index (Nom)	LLMF 12000 h Rated	LLMF 16000 h Rated	LLMF 2000 h Rated	LLMF 20000 h Rated	LLMF 4000 h Rated
18186230	540	415	2000	25	-	80	79	88	78	84
21024130	-	-	2000	25	-	81	79	93	78	89
21028915	-	-	2000	25	-	-	-	-	-	-
21038815	-	-	2000	25	-	-	-	-	-	-
21032615	-	-	2000	25	-	-	-	-	-	-
30018515	-	-	1900	25	-	-	-	-	-	-

Light Technical (2/3)

order code	LLMF 6000 h Rated	LLMF 8000 h Rated	Lumen Maintenance 10000 h (Min)	Lumen Maintenance 10000 h (Nom)	Lumen Maintenance 2000 h (Min)	Lumen Maintenance 2000 h (Nom)	Lumen Maintenance 20000 h	Lumen Maintenance 5000 h (Min)	Lumen Maintenance 5000 h (Nom)	Luminous Efficacy (rated) (Nom)
18186230	83	81	70	81	80	88	78	75	83.5	80
21024130	86	84	-	85	85	93	-	80	88	80
21028915	-	-	80	85	90	95	-	85	90	93
21038815	-	-	90	95	95	98	-	92	96	106
21032615	-	-	81	88	94	97	-	88	94	122
30018515	-	-	-	-	80	90	-	75	85	85

Light Technical (3/3)

order code	Luminous Flux (Rated) (Min)	Luminous Flux (Rated) (Nom)
18186230	5040	5600
21024130	4500	5600
21028915	12375	13750
21038815	22500	27000

order code	Luminous Flux (Rated) (Min)	Luminous Flux (Rated) (Nom)
21032615	42000	48000
30018515	7200	8000

Operating and Electrical

order code	Lamp Current (EM) (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)	Power (Rated) (Nom)	Re-Ignition Time (Min) (Max)
18186230	0.98	105	75	90	70.0	-
21024130	0.98	105	75	90	70.0	180
21028915	1.8	115	85	100	150	180
21038815	3	115	85	100	250	120
21032615	4.45	120	90	105	400.0	120
30018515	1.2	115	85	100	100.0	120

Mechanical and Housing

order code	Bulb Finish
18186230	Coated
21024130	Coated
21028915	Coated
21038815	Coated
21032615	Coated
30018515	Coated

Approval and Application

order code	Energy Consumption kWh/1000 h	Energy Efficiency Label (EEL)	Mercury (Hg) Content (Nom)
18186230	77	A+	16.3
21024130	77	A	16.3
21028915	162	A+	20.4
21038815	275	A+	20.4

order code	Energy Consumption kWh/1000 h	Energy Efficiency Label (EEL)	Mercury (Hg) Content (Nom)
21032615	440	A+	24.5
30018515	110	A+	20.2

Luminaire Design Requirements

order code	Bulb Temperature (Max)
18186230	350
21024130	350
21028915	350
21038815	350
21032615	350
30018515	350



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