



Product Description

SON H

High Pressure Sodium lamp with opalized outer bulb retrofit for High Pressure Mercury lamps

Benefits

- Instant and cost-effective upgrade of light level and reduction of energy use replacing HPL

Features

- Direct replacement for mercury lamps as they operate on the same control gear
- High luminous efficacy
- Robust construction is vibration- and shock-resistant leading to a reliable life

Application

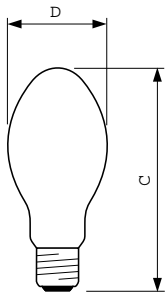
- Road and residential lighting
- Commercial and industrial applications

Versions



SON H

Dimensional drawing



Product	D (max)	C (max)
SON H 350W/220 E40 1SL/12	122 mm	290 mm
SON H 220W/220 E40 1SL/12	91 mm	227 mm

Approval and Application

Mercury (Hg) Content (Nom) 28.6 mg

Controls and Dimming

Dimmable no

Operating and Electrical

Voltage (Min) 105 V

Re-Ignition Time (Min) (Max) 180 s

General Information

Cap-Base E40

Life To 10% Failures (Nom) 12000 h

Life To 20% Failures (Nom) 16000 h

Life To 50% Failures (Nom) 26000 h

Life To 5% Failures (Nom) 9000 h

LSF 12000 h Rated 90 %

LSF 16000 h Rated 81 %

LSF 2000 h Rated 99 %

LSF 20000 h Rated 69 %

LSF 4000 h Rated 99 %

LSF 6000 h Rated 98 %

LSF 8000 h Rated 96 %

Operating Position UNIVERSAL

System Description na

Luminaire Design Requirements

Bulb Temperature (Max) 350 °C

Light Technical

Colour Code 220

Correlated Colour Temperature (Nom) 2000 K

Colour Rendering Index (Max) 25

LLMF 12000 h Rated 90 %

LLMF 16000 h Rated 87 %

LLMF 2000 h Rated 98 %

LLMF 20000 h Rated 84 %

LLMF 4000 h Rated 96 %

LLMF 6000 h Rated 95 %

LLMF 8000 h Rated 93 %

Ratio Scotopic/Photopic Lumens 0.60

Mechanical and Housing

Bulb Finish Coated

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Energy Efficiency Label (EEL)
928152409830	SON H 220W/220 E40 1SL/12	240 kWh	A
928153509830	SON H 350W/220 E40 1SL/12	385 kWh	A+

Operating and Electrical

Order Code	Full Product Name	Lamp			Power
		Current (EM) (Nom)	Voltage (Max)	Voltage (Nom)	(Rated) (Nom)
928152409830	SON H 220W/220 E40 1SL/12	2.2 A	130 V	120 V	218.0 W

Order Code	Full Product Name	Lamp			Power
		Current (EM) (Nom)	Voltage (Max)	Voltage (Nom)	(Rated) (Nom)
928153509830	SON H 350W/220 E40 1SL/12	3.6 A	129 V	117 V	350.0 W

Light Technical

Order Code	Full Product Name	Chromaticity Coordinate X (Nom)	Chromaticity Coordinate Y (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux (Rated) (Nom)
928152409830	SON H 220W/220 E40 1SL/12	530	410	87 lm/W	19000 lm

Order Code	Full Product Name	Chromaticity Coordinate X (Nom)	Chromaticity Coordinate Y (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux (Rated) (Nom)
928153509830	SON H 350W/220 E40 1SL/12	525	415	98 lm/W	34000 lm

Mechanical and Housing

Order Code	Full Product Name	Bulb Shape
928152409830	SON H 220W/220 E40 1SL/12	BD90

Order Code	Full Product Name	Bulb Shape
928153509830	SON H 350W/220 E40 1SL/12	BD120

