



Product Description

ML

Mixed Light lamps

Benefits

- Direct retrofit for incandescent lamps
- Higher efficacy and lifetime than incandescent

Features

- High-pressure mercury tube in series with a tungsten filament
- Runs on mains voltage without additional gear
- Combines a continuous spectrum from the incandescent source and a line spectrum from the high-pressure mercury source

Application

- Public outdoor lighting, car parks, workshops, garages and shops

Warnings and Safety

- 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.

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General Information

order code	Bulb Shape	Cap-Base	Life To 20% Failures (Nom)	Life To 50% Failures (Nom)	Life To 5% Failures (Nom)	Operating Position
18162615	ED90	E40	5000	10000	2000	VBU/VBD30
19961410	ED120	E40	5000	10000	2000	VBU/VBD30
24698230	E75	E27	7000	13000	2000	VBU/VBD30

Light Technical (1/2)

order code	Chromaticity Coordinate X (Nom)	Chromaticity Coordinate Y (Nom)	Correlated Color Temperature (Nom)	Color Rendering Index (Nom)	Lumen Maintenance 2000 h (Min)	Lumen Maintenance 2000 h (Nom)	Lumen Maintenance 5000 h (Min)	Lumen Maintenance 5000 h (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux (Rated) (Min)
18162615	403	382	3400	63	85	90	70	80	21	5000
19961410	396	387	3700	50	85	90	70	80	26	12500
24698230	399	380	3600	63	82	87	78	83	19	2850

Light Technical (2/2)

order code	Luminous Flux (Rated) (Nom)
18162615	5500
19961410	13000
24698230	3150

Approval and Application

order code	Energy Consumption kWh/1000 h	Energy Efficiency Label (EEL)	Mercury (Hg) Content (Nom)
18162615	286	C	14
19961410	550	B	46
24698230	181	C	12

Operating and Electrical

order code	Lamp Current (EM) (Max)	Lamp Current (EM) (Min)	Lamp Current (EM) (Nom)	Voltage (Nom)	Power (Rated) (Nom)
18162615	1.27	1.13	1.2	220-230	250
19961410	2.44	2.20	2.32	220-230	500.0
24698230	0.8	0.72	0.76	220-230	160

Luminaire Design Requirements

order code	Bulb Temperature (Max)
18162615	350
19961410	350
24698230	350

Mechanical and Housing

order code	Bulb Finish	Bulb Material
18162615	Coated	Hard Glass
19961410	Coated	Hard Glass
24698230	Coated	Soft Glass



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2016, May 18
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