



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.

Versions



Dimensional drawing



Product	D (max)	C (max)
ML 250W E40 220-230V 1SL/12	91 mm	226 mm
ML 250W E27 225-235V 1SL/12	91 mm	212 mm
ML 500W E40 220-230V 1SL/6	122 mm	290 mm
ML 160W E27 220-230V SG 1CT/24	76 mm	172 mm
ML 500W E40 225-235V HG 1SL/6	122 mm	290 mm

Controls and Dimming	
Dimmable	no
General Information	
Operating Position	VBU/VBD30
Luminaire Design Requirements	
Bulb Temperature (Max)	350 °C
Mechanical and Housing	
Bulb Finish	Coated glass

Approval and Application

		Energy Consumption	Energy Efficiency	Mercury
Order Code	Full Product Name	kWh/1000 h	Label (EEL)	(Hg) Content (Nom)
928096056892	ML 250W E27 225-235V 1SL/12	291 kWh	C	16.3 mg
928601008988	ML 160W E27 220-230V SG 1CT/24	181 kWh	C	12 mg
928096257291	ML 250W E40 220-230V 1SL/12	286 kWh	C	14 mg

		Energy Consumption	Energy Efficiency	Mercury
Order Code	Full Product Name	kWh/1000 h	Label (EEL)	(Hg) Content (Nom)
928097056822	ML 500W E40 225-235V HG 1SL/6	500 kWh	B	48.9 mg
928097057791	ML 500W E40 220-230V 1SL/6	550 kWh	B	46 mg

Operating and Electrical

Order Code	Full Product Name	Lamp Current (EM) (Max)	Lamp Current (EM) (Min)	Lamp Current (EM) (Nom)	Voltage (Nom)	Power (Rated) (Nom)
928096056892	ML 250W E27 225-235V 1SL/12	1.205 A	1.075 A	1.14 A	230 V	265.0 W
928601008988	ML 160W E27 220-230V SG 1CT/24	0.8 A	0.72 A	0.76 A	225 V	165.0 W
928096257291	ML 250W E40 220-230V 1SL/12	1.27 A	1.13 A	1.2 A	225 V	260.0 W
928097056822	ML 500W E40 225-235V HG 1SL/6	-	-	2.29 A	230 V	500.0 W
928097057791	ML 500W E40 220-230V 1SL/6	2.44 A	2.20 A	2.32 A	225 V	500.0 W

General Information (1/2)

Order Code	Full Product Name	Life To 10%		Life To 20% Failures	Life To 50% Failures	Life To 5% Failures	LSF 12000 h	LSF 16000 h
		Cap-Base	Failures (Nom)	(Nom)	(Nom)	(Nom)	Rated	Rated
928096056892	ML 250W E27 225-235V 1SL/12	E27	-	5000 h	10000 h	2000 h	40 %	25 %
928601008988	ML 160W E27 220-230V SG 1CT/24	E27	-	7000 h	13000 h	2000 h	-	-
928096257291	ML 250W E40 220-230V 1SL/12	E40	-	5000 h	10000 h	2000 h	-	-
928097056822	ML 500W E40 225-235V HG 1SL/6	E40	3000 h	5000 h	8000 h	-	-	-
928097057791	ML 500W E40 220-230V 1SL/6	E40	-	5000 h	10000 h	2000 h	-	-

General Information (2/2)

Order Code	Full Product Name	LSF 2000 h	LSF 20000 h	LSF 4000 h	LSF 6000 h	LSF 8000 h
		Rated	Rated	Rated	Rated	Rated
928096056892	ML 250W E27 225-235V 1SL/12	95 %	12 %	85 %	72 %	60 %
928601008988	ML 160W E27 220-230V SG 1CT/24	-	-	-	-	-
928096257291	ML 250W E40 220-230V 1SL/12	-	-	-	-	-

Order Code	Full Product Name	LSF 2000 h	LSF 20000 h	LSF 4000 h	LSF 6000 h	LSF 8000 h
		Rated	Rated	Rated	Rated	Rated
928097056822	ML 500W E40 225-235V HG 1SL/6	93 %	-	85 %	70 %	50 %
928097057791	ML 500W E40 220-230V 1SL/6	-	-	-	-	-

Light Technical (1/3)

Order Code	Full Product Name	Chromaticity Coordinate X	Chromaticity Coordinate Y	Correlated Colour Temperature (Nom)	Colour Rendering Index (Nom)	LLMF 12000 h	LLMF 16000 h	LLMF 2000 h
		(Nom)	(Nom)	(Nom)	(Nom)	h Rated	h Rated	h Rated
928096056892	ML 250W E27 225-235V 1SL/12	402	382	3400 K	63	72 %	67 %	90 %
928601008988	ML 160W E27 220-230V SG 1CT/24	399	380	3600 K	63	-	-	-
928096257291	ML 250W E40 220-230V 1SL/12	403	382	3400 K	63	-	-	-
928097056822	ML 500W E40 225-235V HG 1SL/6	376	401	4200 K	50	-	-	-
928097057791	ML 500W E40 220-230V 1SL/6	396	387	3700 K	50	-	-	-

Light Technical (2/3)

Order Code	Full Product Name	LLMF 20000 h	LLMF 4000 h	LLMF 6000 h	LLMF 8000 h	Lumen Maintenance 2000 h (Min)	Lumen Maintenance 2000 h (Nom)	Lumen Maintenance 5000 h (Min)	Lumen Maintenance 5000 h (Nom)	Luminous Efficacy (rated) (Nom)
		Rated	Rated	Rated	Rated	(Nom)	(Nom)	(Nom)	(Nom)	(Nom)
928096056892	ML 250W E27 225-235V 1SL/12	62 %	83 %	79 %	77 %	85 %	90 %	70 %	80 %	20.4 lm/W
928601008988	ML 160W E27 220-230V SG 1CT/24	-	-	-	-	82 %	87 %	78 %	83 %	19 lm/W
928096257291	ML 250W E40 220-230V 1SL/12	-	-	-	-	85 %	90 %	70 %	80 %	21 lm/W

Order Code	Full Product Name	LLMF 20000 h Rated	LLMF 4000 h Rated	LLMF 6000 h Rated	LLMF 8000 h Rated	Lumen Maintenance 2000 h (Min)	Lumen Maintenance 2000 h (Nom)	Lumen Maintenance 5000 h (Min)	Lumen Maintenance 5000 h (Nom)	Luminous Efficacy (rated) (Nom)
928097056822	ML 500W E40 225-235V HG 1SL/6	-	-	-	-	80 %	85 %	75 %	85 %	26 lm/W
928097057791	ML 500W E40 220-230V 1SL/6	-	-	-	-	85 %	90 %	70 %	80 %	26 lm/W

Light Technical (3/3)

Order Code	Full Product Name	Luminous Flux (Rated) (Min)	Luminous Flux (Rated) (Nom)
928096056892	ML 250W E27 225-235V 1SL/12	-	5400 lm
928601008988	ML 160W E27 220-230V SG 1CT/24	2850 lm	3150 lm
928096257291	ML 250W E40 220-230V 1SL/12	5000 lm	5500 lm

Order Code	Full Product Name	Luminous Flux (Rated) (Min)	Luminous Flux (Rated) (Nom)
928097056822	ML 500W E40 225-235V HG 1SL/6	-	13000 lm
928097057791	ML 500W E40 220-230V 1SL/6	12500 lm	13000 lm

Mechanical and Housing

Order Code	Full Product Name	Bulb Material	Bulb Shape
928096056892	ML 250W E27 225-235V 1SL/12	Soft Glass	ED90
928601008988	ML 160W E27 220-230V SG 1CT/24	Soft Glass	E75
928096257291	ML 250W E40 220-230V 1SL/12	Hard Glass	ED90

Order Code	Full Product Name	Bulb Material	Bulb Shape
928097056822	ML 500W E40 225-235V HG 1SL/6	Hard Glass	ED120
928097057791	ML 500W E40 220-230V 1SL/6	Hard Glass	ED120

Colour Rendering Diagrams



