



# 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.

# ML

## Versions

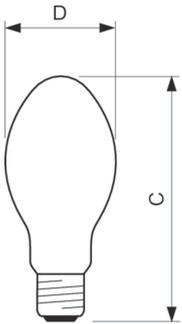


E27



E39/E40

## Dimensional drawing



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

### Approval and Application

Energy Efficiency Label (EEL) C

### Controls and Dimming

Dimmable No

### General Information

Life To 5% Failures (Nom) 2000 h

Operating Position VBU/VBD30

### Luminaire Design Requirements

Bulb Temperature (Max) 350 °C

### Light Technical

Color Rendering Index (Nom) 63

### Mechanical and Housing

Bulb Finish Coated glass

## Approval and Application

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

Order Code	Full Product Name	Energy Consumption	Mercury (Hg)
		kWh/1000 h	Content (Nom)
928096257291	ML 250W E40 220-230V 1SL/12	286 kWh	14 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

### General Information (1/2)

Order Code	Full Product Name	Cap-Base	Life To 20% Failures	Life To 50% Failures	LSF 12000 h	LSF 16000 h	LSF 2000 h	LSF 20000 h
			(Nom)	(Nom)	Rated	Rated	Rated	Rated
928096056892	ML 250W E27 225-235V 1SL/12	E27	5000 h	10000 h	40 %	25 %	95 %	12 %
928601008988	ML 160W E27 220-230V SG 1CT/24	E27	7000 h	13000 h	-	-	-	-
928096257291	ML 250W E40 220-230V 1SL/12	E40	5000 h	10000 h	-	-	-	-

### General Information (2/2)

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

### Light Technical (1/3)

Order Code	Full Product Name	Chromaticity	Chromaticity	Correlated Color	LLMF 12000 h	LLMF 16000 h	LLMF 2000 h	LLMF 20000 h
		Coordinate X (Nom)	Coordinate Y (Nom)	Temperature (Nom)	Rated	Rated	Rated	Rated
928096056892	ML 250W E27 225-235V 1SL/12	402	382	-	72 %	67 %	90 %	62 %
928601008988	ML 160W E27 220-230V SG 1CT/24	399	380	3600 K	-	-	-	-
928096257291	ML 250W E40 220-230V 1SL/12	403	382	-	-	-	-	-

### Light Technical (2/3)

Order Code	Full Product Name	LLMF	LLMF	LLMF	Lumen	Lumen	Lumen	Lumen	Luminous	Luminous
		4000 h	6000 h	8000 h	Maintenance	Maintenance	Maintenance	Maintenance	Efficacy (rated)	Flux (Rated)
		Rated	Rated	Rated	2000 h (Min)	2000 h (Nom)	5000 h (Min)	5000 h (Nom)	(Nom)	(Min)
928096056892	ML 250W E27 225-235V 1SL/12	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	2850 lm

Order Code	Full Product Name	LLMF	LLMF	LLMF	Lumen	Lumen	Lumen	Lumen	Luminous	Luminous
		4000 h Rated	6000 h Rated	8000 h Rated	Maintenance 2000 h (Min)	Maintenance 2000 h (Nom)	Maintenance 5000 h (Min)	Maintenance 5000 h (Nom)	Efficacy (rated) (Nom)	Flux (Rated) (Min)
928096257291	ML 250W E40 220-230V 1SL/12	-	-	-	85 %	90 %	70 %	80 %	21 lm/W	5000 lm

### Light Technical (3/3)

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

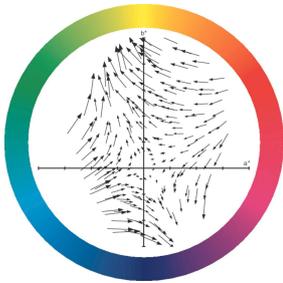
Order Code	Full Product Name	Luminous Flux (Rated) (Nom)
928096257291	ML 250W E40 220-230V 1SL/12	5500 lm

### Mechanical and Housing

Order Code	Full Product Name	Bulb Material	Bulb Shape
928096056892	ML 250W E27 225-235V 1SL/12	Soft Glass	ED-28
928601008988	ML 160W E27 220-230V SG 1CT/24	Soft Glass	E75

Order Code	Full Product Name	Bulb Material	Bulb Shape
928096257291	ML 250W E40 220-230V 1SL/12	Hard Glass	ED-28

### Colour Rendering Diagrams



LDCR\_ML-Colour rendering diagram



