



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

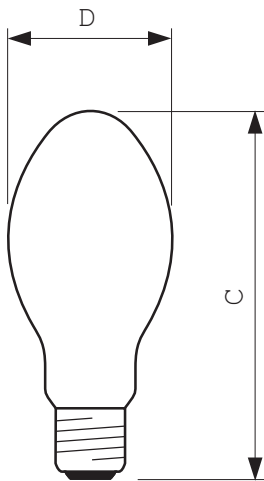
- Public outdoor lighting, car parks, workshops, garages and shops

Related products



E27

Dimensional drawing



E27/E40

Product	C (Max)	D (Max)
ML 100W E27 225-235V SG	155	71
ML 160W E27 225-235V SG	173	76
ML 160W E27 235-245V SG	173	76
ML 250W E27 225-235V SG	212	91
ML 250W E40 225-235V HG	226	91
ML 500W E40 225-235V HG	290	122

General Characteristics (1/2)

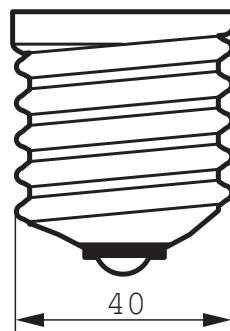
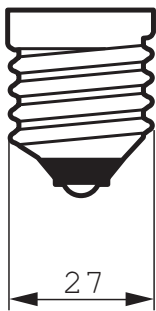
Order code	Full product name	Bulb	Bulb Material	Bulb Finish	Cap-Base	Burning Position	Life to 20% failures	Life to 5% failures	Life to 50% failures	LSF EM 12000h Rated, 12h cycle	LSF EM 16000h Rated, 12h cycle
180483 30	ML 100W E27 225-235V SG 1SL	B70	Soft Glass	Coated	ES	vbu/vbd30	5000	2000	10000	40	25
181350 30	ML 160W E27 225-235V SG 1SL	B75	Soft Glass	Coated	ES	vbu/vbd30	7000	2000	13000	55	40
181473 30	ML 160W E27 235-245V SG 1SL	B75	Soft Glass	Coated	ES	vbu/vbd30	4000	2000	8000	25	8
201393 15	ML 250W E27 225-235V SG 1SL	B90	Soft Glass	Coated	ES	vbu/vbd45	5000	2000	10000	40	25
201294 15	ML 250W E40 225-235V HG 1SL	BD90	Hard Glass	Coated	GES	vbu/vbd45	5000	2000	10000	40	25
201331 10	ML 500W E40 225-235V HG 1SL	BD120	Hard Glass	Coated	GES	vbu/vbd45	5000	2000	10000	40	25

General Characteristics (2/2)

Order code	Full product name	LSF EM 20000h Rated, 12h cycle	LSF EM 2000h Rated, 12h cycle	LSF EM 4000h Rated, 12h cycle	LSF EM 6000h Rated, 12h cycle	LSF EM 8000h Rated, 12h cycle
180483 30	ML 100W E27 225-235V SG 1SL	12	95	85	72	60
181350 30	ML 160W E27 225-235V SG 1SL	28	95	88	82	70
181473 30	ML 160W E27 235-245V SG 1SL	2	95	80	65	50
201393 15	ML 250W E27 225-235V SG 1SL	12	95	85	72	60

Order code	Full product name	LSF EM 20000h Rated, 12h cycle	LSF EM 2000h Rated, 12h cycle	LSF EM 4000h Rated, 12h cycle	LSF EM 6000h Rated, 12h cycle	LSF EM 8000h Rated, 12h cycle
201294 15	ML 250W E40 225-235V HG 1SL	12	95	85	72	60
201331 10	ML 500W E40 225-235V HG 1SL	12	95	85	72	60

Installation diagrams



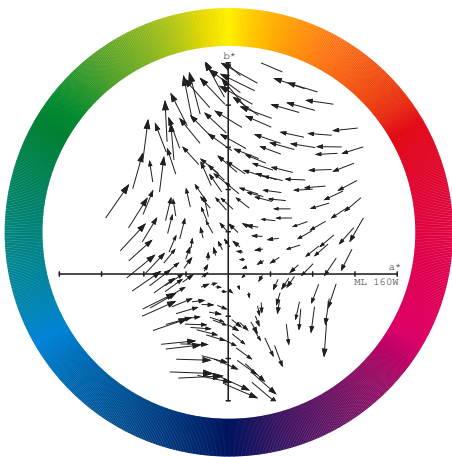
Light Technical Characteristics (1/2)

Order code	Full product name	Lamp Luminous Flux EM	Chromaticity Coordinate X	Chromaticity Coordinate Y	Colour Rendering Index	Lumen Maintenance 2000h	Lumen Maintenance 5000h	Lamp Luminous Efficacy EM	Colour Temperature	Lum Efficacy Rated EM 25°C	LLMF EM 20000h Rated
180483 30	ML 100W E27 225-235V SG 1SL	1100	432	404	72	92	90	-	3300	10.5	69
181350 30	ML 160W E27 225-235V SG 1SL	3200	398	378	65	90	85	-	3600	19	66
181473 30	ML 160W E27 235-245V SG 1SL	3000	395	379	65	90	85	-	3600	17	66
201393 15	ML 250W E27 225-235V SG 1SL	5500	402	382	65	90	85	-	3400	20.4	62
201294 15	ML 250W E40 225-235V HG 1SL	-	402	382	65	90	85	-	3400	20.4	62
201331 10	ML 500W E40 225-235V HG 1SL	13000	397	386	50	90	85	-	3700	26	62

Light Technical Characteristics (2/2)

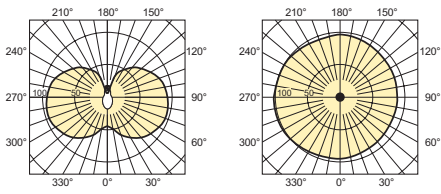
Order code	Full product name	LLMF EM 16000h Rated	LLMF EM 12000h Rated	LLMF EM 8000h Rated	LLMF EM 6000h Rated	LLMF EM 4000h Rated	LLMF EM 2000h Rated	Luminous Flux EM 25°C, Rated
180483 30	ML 100W E27 225-235V SG 1SL	78	85	90	90	91.5	92	1100
181350 30	ML 160W E27 225-235V SG 1SL	72	77	81	82	84	87	3150
181473 30	ML 160W E27 235-245V SG 1SL	72	77	81	82	84	87	2800
201393 15	ML 250W E27 225-235V SG 1SL	67	72	77	79	83	90	5400
201294 15	ML 250W E40 225-235V HG 1SL	67	72	77	79	83	90	5400
201331 10	ML 500W E40 225-235V HG 1SL	67	72	77	79	83	90	13000

Light technical



ML

Light technical

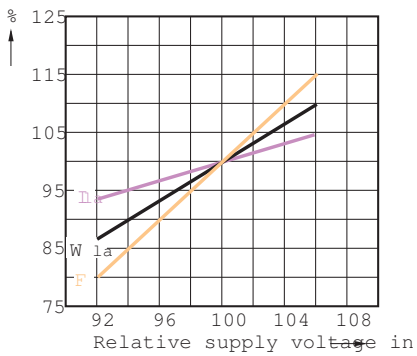


ML 250W

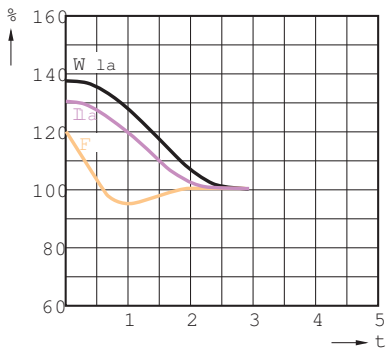
Electrical Characteristics

Order code	Full product name	Voltage	Lamp Wattage	Lamp Wattage EM	Lamp Voltage	Lamp Current EM	Dimmable	Lamp Wattage EM 25°C, Rated	Lamp Wattage EM 25°C, Nominal
180483 30	ML 100W E27 225-235V SG 1SL	225-235	100	-	230	0.46	no	104	100
181350 30	ML 160W E27 225-235V SG 1SL	225-235	160	-	230	0.73	no	165	160
181473 30	ML 160W E27 235-245V SG 1SL	235-245	160	-	240	0.69	no	165	160
201393 15	ML 250W E27 225-235V SG 1SL	225-235	250	-	230	1.14	no	265	250
201294 15	ML 250W E40 225-235V HG 1SL	225-235	250	-	230	1.14	no	265	250
201331 10	ML 500W E40 225-235V HG 1SL	225-235	500	-	230	2.22	no	500	500

Performance diagrams

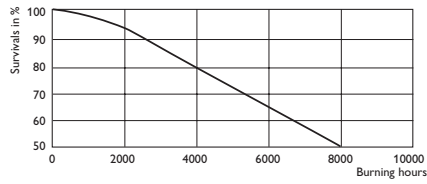


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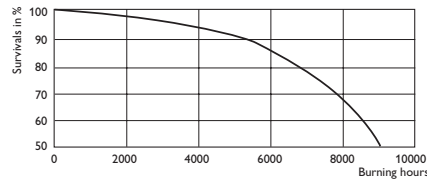


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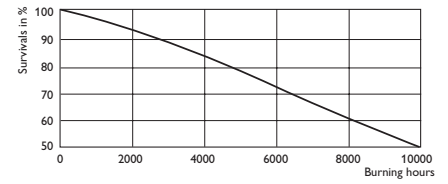
Performance diagrams



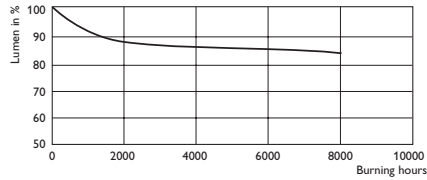
ML 100W



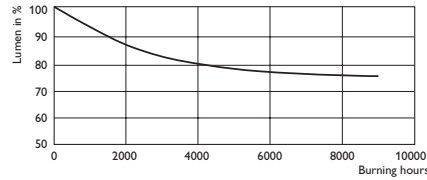
ML 160W



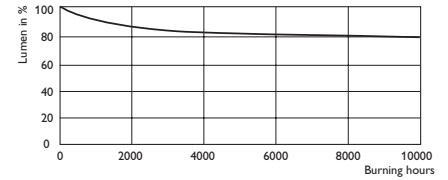
ML 250W & 500W



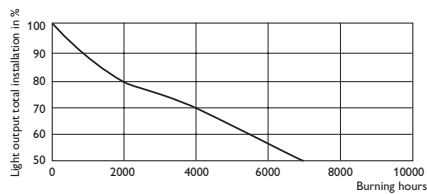
ML 100W



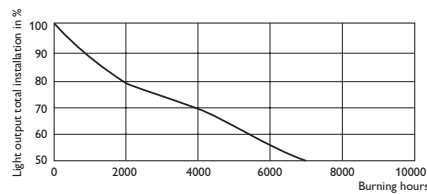
ML 160W



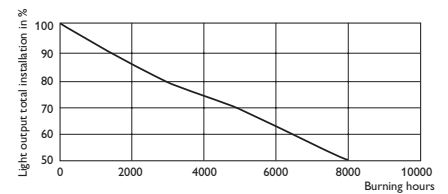
ML 250W & 500W



ML 100W



ML 160W



ML 250W & 500W

Environmental Characteristics

Order code	Full product name	Mercury (Hg) Content
180483 30	ML 100W E27 225-235V SG 1SL	6.2
181350 30	ML 160W E27 225-235V SG 1SL	13
181473 30	ML 160W E27 235-245V SG 1SL	12
201393 15	ML 250W E27 225-235V SG 1SL	16.3
201294 15	ML 250W E40 225-235V HG 1SL	16.3
201331 10	ML 500W E40 225-235V HG 1SL	48.9

Luminaire Design Requirements

Order code	Full product name	Cap-Base Temperature	Bulb Temperature
180483 30	ML 100W E27 225-235V SG 1SL	200 (max)	350 (max)
181350 30	ML 160W E27 225-235V SG 1SL	200 (max)	350 (max)
181473 30	ML 160W E27 235-245V SG 1SL	200 (max)	350 (max)
201393 15	ML 250W E27 225-235V SG 1SL	200 (max)	350 (max)
201294 15	ML 250W E40 225-235V HG 1SL	200 (max)	350 (max)
201331 10	ML 500W E40 225-235V HG 1SL	250 (max)	350 (max)



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2011, December 2
data subject to change