PHILIPS

Lighting

High performance, low total cost of ownership

Pulse Start Metal Halide Standard

Philips Pulse Start Metal Halide Lamps offer an optimized metal halide system for greater efficiency and lumen maintenance.

Benefits

- Flexible lighting solution - available in various bases and wattages.
- Long Life when compared to switch start metal halide (for 175W and 250W versions).

Features

- Up to 25% increase in maintained light output over standard metal halide.
- Increased efficacy (up to 120 lpw) equals low total cost of ownership.
- Up to 50% faster warm-up and restrike time.
- Up to 50% increase in life when compared to switch start metal halide (for 175W and 250W versions).
- ED-37 base available in 350 and 400 watts base up and horizontal operations as well as COATED / BT-37 available in 750 and 1000 watt base up operation and 750 watt horizontal operation / ED-28 available in 175, 200, 250, 320, and 400 watts base up or horizontal operations. 175 and 320 watts of the ED-28 base are also available in COATED.

Application

- Ideal for industrial and retail high/low bays and parking lots.

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Warnings and Safety

- R "WARNING: These lamps can cause serious skin burn and eye inflammation from short wave ultraviolet radiation if outer envelope of the lamp is broken or punctured. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Certain lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available." This lamp complies with FDA radiation performance standard 21 CFR subchapter J. (USA:21 CFR 1040.30 Canada: SOR/DORS/80-381)

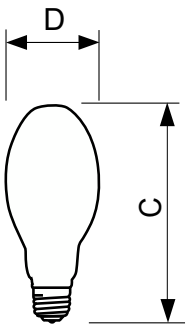
Versions

LPPR D-MH-R BT37 CL

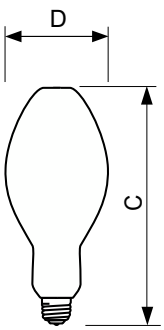
LPPR D-MH-PS ED37 CL

LPPR MH E26 E27 CL

Dimensional drawing



Product	D	C (max)
MS175/BU/PS 12PK	3.5 inch	8.313 inch
MS250/BU/PS 12PK	3.5 inch	8.313 inch
MS250/U/PS 12PK	91 mm	206 mm
MS320/U/PS 12PK	91 mm	206 mm
PS MH Std 400W/640 CW Mog ED28 1SL	3.5 inch	8.3 inch
PS MH Std 400W/640 Mog ED28 1WR	3.5 inch	8.3 inch



Product	D	C (max)
MS400/U/PS 6PK	4.625 inch	11.5 inch

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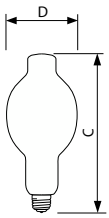
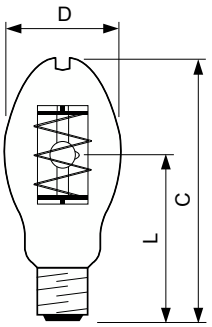
Dimensional drawing



Product	D	C (max)
MS1000/BU/BT37/PS 6PK		292.0 mm
MS750/BU/PS 6PK	122 mm	282 mm



Product	D (max)	L (min)	C (max)
MH 100W/640 E26 CL 1SL/24	56 mm	83 mm	138 mm

Mechanical and Housing

Bulb Finish	Clear

General Information

Order Code	Full Product Name	Cap-Base	Operating Position
928601152103	MS175/BU/PS 12PK	E39	H15
928601152203	MS250/BU/PS 12PK	E39	H15
928601152503	MS320/U/PS 12PK	E39	-
928601165802	MS250/U/PS 12PK	E39	-
928601132003	MS1000/BU/BT37/PS 6PK	E39	H10
928601179101	MS750/BU/PS 6PK	E39	-

Order Code	Full Product Name	Cap-Base	Operating Position
928601165501	PS MH Std 400W/640 CW Mog ED28 1SL	E39	H15
928601165601	PS MH Std 400W/640 Mog ED28 1WR	E39	P15
928601179001	MS400/U/PS 6PK	E39	UNIVERSAL
928485900191	MH 100W/640 E26 CL 1SL/24	E26	H

Light Technical (1/2)

Order Code	Full Product Name	Chromaticity Coordinate X (Nom)	Chromaticity Coordinate Y (Nom)	Color Designation	Correlated Color Temperature (Nom)	Color rendering index (CRI)	Luminous Efficacy (Rated) (Min)	Luminous Efficacy (rated) (Nom)
928601152103	MS175/BU/PS 12PK	395	390	White (WH)	-	62	82.3 lm/W	91 lm/W
928601152203	MS250/BU/PS 12PK	374	392	Cool White (CW)	4300 K	65	85.5 lm/W	95 lm/W
928601152503	MS320/U/PS 12PK	0.395	0.405	-	3600 K	>65	84.4 lm/W	93.8 lm/W
928601165802	MS250/U/PS 12PK	0.385	0.395	4000 Kelvin	4000 K	>65	70 lm/W	84 lm/W
928601132003	MS1000/BU/BT37/PS 6PK	0.385	0.390	-	4000 K	65	-	-
928601179101	MS750/BU/PS 6PK	0.385	0.4	4000 Kelvin	4000 K	>65	98 lm/W	109 lm/W

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Order Code	Full Product Name	Chromaticity Coordinate X (Nom)	Chromaticity Coordinate Y (Nom)	Color Designation	Correlated Color Temperature (Nom)	Color rendering index (CRI)	Luminous Efficacy (Rated) (Min)	Luminous Efficacy (rated) (Nom)
928601165501	PS MH Std 400W/640 CW Mog ED28 1SL	385	390	Cool White (CW)	4000 K	68	105 lm/W	110 lm/W
928601165601	PS MH Std 400W/640 Mog ED28 1WR	385	390	Cool White (CW)	4000 K	68	97.5 lm/W	100 lm/W
928601179001	MS400/U/PS 6PK	385	390	Cool White (CW)	4000 K	65	-	90 lm/W
928485900191	MH 100W/640 E26 CL 1SL/24	385	390	Cool White (CW)	4000 K	65	-	85 lm/W

Light Technical (2/2)

Order Code	Full Product Name	Luminous Flux
928601152103	MS175/BU/PS 12PK	-
928601152203	MS250/BU/PS 12PK	-
928601152503	MS320/U/PS 12PK	19,500 lm
928601165802	MS250/U/PS 12PK	13,650 lm
928601132003	MS1000/BU/BT37/PS 6PK	-

Order Code	Full Product Name	Luminous Flux
928601179101	MS750/BU/PS 6PK	53,300 lm
928601165501	PS MH Std 400W/640 CW Mog ED28 1SL	-
928601165601	PS MH Std 400W/640 Mog ED28 1WR	-
928601179001	MS400/U/PS 6PK	-
928485900191	MH 100W/640 E26 CL 1SL/24	-

Operating and Electrical

Order Code	Full Product Name	Warm-up time to 60% light	Lamp Current (Nom)	Voltage (Nom)	Power Consumption	Wattage Equivalent
928601152103	MS175/BU/PS 12PK	-	1.5 A	132 V	-	-
928601152203	MS250/BU/PS 12PK	-	2 A	133 V	-	-
928601152503	MS320/U/PS 12PK	<120 s	-	-	320 W	320 W
928601165802	MS250/U/PS 12PK	<120 s	-	-	250 W	250 W
928601132003	MS1000/BU/BT37/PS 6PK	-	4.1 A	836 V	1,000 W	-
928601179101	MS750/BU/PS 6PK	<180 s	-	-	750 W	750 W
928601165501	PS MH Std 400W/640 CW Mog ED28 1SL	-	3.2 A	135 V	-	-
928601165601	PS MH Std 400W/640 Mog ED28 1WR	-	3.2 A	135 V	-	-
928601179001	MS400/U/PS 6PK	-	3.25 A	135 V	-	-
928485900191	MH 100W/640 E26 CL 1SL/24	-	-	100 V	106 W	-

Controls and Dimming

Order Code	Full Product Name	Dimmable
928601152103	MS175/BU/PS 12PK	-
928601152203	MS250/BU/PS 12PK	-
928601152503	MS320/U/PS 12PK	No
928601165802	MS250/U/PS 12PK	No
928601132003	MS1000/BU/BT37/PS 6PK	-

Order Code	Full Product Name	Dimmable
928601179101	MS750/BU/PS 6PK	No
928601165501	PS MH Std 400W/640 CW Mog ED28 1SL	-
928601165601	PS MH Std 400W/640 Mog ED28 1WR	-
928601179001	MS400/U/PS 6PK	-
928485900191	MH 100W/640 E26 CL 1SL/24	No

Mechanical and Housing

Order Code	Full Product Name	Bulb Material	Bulb Shape
928601152103	MS175/BU/PS 12PK	Hard Glass	ED28
928601152203	MS250/BU/PS 12PK	Hard Glass	ED28
928601152503	MS320/U/PS 12PK	Hard Glass	ED28
928601165802	MS250/U/PS 12PK	Hard Glass	ED28
928601132003	MS1000/BU/BT37/PS 6PK	Hard Glass	BT37

Order Code	Full Product Name	Bulb Material	Bulb Shape
928601179101	MS750/BU/PS 6PK	Hard Glass	BT37
928601165501	PS MH Std 400W/640 CW Mog ED28 1SL	Hard Glass	ED28
928601165601	PS MH Std 400W/640 Mog ED28 1WR	Hard Glass	ED28
928601179001	MS400/U/PS 6PK	Hard Glass	ED37
928485900191	MH 100W/640 E26 CL 1SL/24	-	ED17

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Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Mercury (Hg) Content (Max)	Mercury (Hg) Content (Nom)
928601152103	MS175/BU/PS 12PK	-	-	23.5 mg
928601152203	MS250/BU/PS 12PK	-	-	32 mg
928601152503	MS320/U/PS 12PK	-	32 mg	-
928601165802	MS250/U/PS 12PK	-	32 mg	-
928601132003	MS1000/BU/BT37/PS 6PK	-	-	151 mg
928601179101	MS750/BU/PS 6PK	-	125 mg	-

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Mercury (Hg) Content (Max)	Mercury (Hg) Content (Nom)
928601165501	PS MH Std 400W/640 CW Mog ED28 1SL	-	-	50 mg
928601165601	PS MH Std 400W/640 Mog ED28 1WR	-	-	50 mg
928601179001	MS400/U/PS 6PK	-	42.0 mg	-
928485900191	MH 100W/640 E26 CL 1SL/24	110 kWh	-	10.2 mg

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