



# 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

### Features

### Application

### Warnings and Safety

### Versions



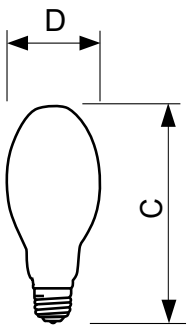
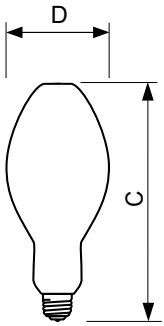
E39, ED-28, Clear



E39, ED-37, Clear

# Pulse Start Metal Halide Standard

## Dimensional drawing



### Product

MS400/U/PS 6PK

Product	D	C (max)
Pulse Start MH Std 400W/640 Mog ED28 1WR	3.5 in	8.3 in
Pulse Start MH Std 400W/640 CW Mog ED28 1SL	3.5 in	8.3 in
MS175/BU/PS 12PK	3.5 in	8.313 in
MS250/BU/PS 12PK	3.5 in	8.313 in

### General Information

Cap-Base	E39
Main Application	General Lighting (G)
System Description	Pulse Start

### Mechanical and Housing

Bulb Finish	Clear
Bulb Material	Hard Glass

## Approval and Application

Order Code	Full Product Name	Mercury (Hg) Content (Max)	Mercury (Hg) Content (Nom)
928601152103	MS175/BU/PS 12PK	-	23.5 mg
928601152203	MS250/BU/PS 12PK	-	32 mg
928601165501	Pulse Start MH Std 400W/640 CW Mog ED28 1SL	-	50 mg

Order Code	Full Product Name	Mercury (Hg) Content (Max)	Mercury (Hg) Content (Nom)
928601165601	Pulse Start MH Std 400W/640 Mog ED28 1WR	-	50 mg
928601179001	MS400/U/PS 6PK	42.0 mg	-

## Operating and Electrical

Order Code	Full Product Name	Lamp Current (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)	Re-Ignition Time (Min) (Max)
928601152103	MS175/BU/PS 12PK	1.5 A	147 V	117 V	132 V	10 min
928601152203	MS250/BU/PS 12PK	2 A	147 V	119 V	133 V	4 min
928601165501	Pulse Start MH Std 400W/640 CW Mog ED28 1SL	3.2 A	150 V	120 V	135 V	6 min
928601165601	Pulse Start MH Std 400W/640 Mog ED28 1WR	3.2 A	150 V	120 V	135 V	6 min

# Pulse Start Metal Halide Standard

Order Code	Full Product Name	Lamp Current (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)	Re-ignition Time (Min) (Max)
928601179001	MS400/U/PS 6PK	3.25 A	150 V	120 V	135 V	10 min

## General Information

Order Code	Full Product Name	Life To 50% Failures (Nom)	Operating Position
928601152103	MS175/BU/PS 12PK	15000 h	H15
928601152203	MS250/BU/PS 12PK	15000 h	H15
928601165501	Pulse Start MH Std 400W/640 CW Mog ED28 1SL	20000 h	H15

Order Code	Full Product Name	Life To 50% Failures (Nom)	Operating Position
928601165601	Pulse Start MH Std 400W/640 Mog ED28 1WR	20000 h	P15
928601179001	MS400/U/PS 6PK	20000 h	UNIVERSAL

## Luminaire Design Requirements

Order Code	Full Product Name	Bulb Temperature (Max)
928601152103	MS175/BU/PS 12PK	400 °C
928601152203	MS250/BU/PS 12PK	400 °C
928601165501	Pulse Start MH Std 400W/640 CW Mog ED28 1SL	450 °C

Order Code	Full Product Name	Bulb Temperature (Max)
928601165601	Pulse Start MH Std 400W/640 Mog ED28 1WR	450 °C
928601179001	MS400/U/PS 6PK	400 °C

## Light Technical (1/2)

Order Code	Full Product Name	Chromaticity Coordinate X (Nom)	Chromaticity Coordinate Y (Nom)	Color Code	Color Designation	Correlated Color Temperature (Nom)	Color Rendering Index (Nom)	Luminous Efficacy (rated) (Min)
		928601152103	MS175/BU/PS 12PK	395	390	635	White (WH)	-
928601152203	MS250/BU/PS 12PK	374	392	645	Cool White (CW)	4300 K	65	85.5 lm/W
928601165501	Pulse Start MH Std 400W/640 CW Mog ED28 1SL	385	390	640	Cool White (CW)	4000 K	68	105 lm/W
928601165601	Pulse Start MH Std 400W/640 Mog ED28 1WR	385	390	640	Cool White (CW)	4000 K	68	97.5 lm/W
928601179001	MS400/U/PS 6PK	385	390	640	Cool White (CW)	4000 K	65	-

## Light Technical (2/2)

Order Code	Full Product Name	Luminous Efficacy (rated) (Nom)	Design Mean Lumens	Luminous Flux (Rated) (Min)	Luminous Flux (Rated) (Nom)
928601152103	MS175/BU/PS 12PK	91 lm/W	11200 lm	14400 lm	16000 lm
928601152203	MS250/BU/PS 12PK	95 lm/W	16625 lm	21375 lm	23750 lm
928601165501	Pulse Start MH Std 400W/640	110 lm/W	-	42000 lm	44000 lm

Order Code	Full Product Name	Luminous Efficacy (rated) (Nom)	Design Mean Lumens	Luminous Flux (Rated) (Min)	Luminous Flux (Rated) (Nom)
928601165601	Pulse Start MH Std 400W/640 Mog ED28 1WR	100 lm/W	-	39000 lm	40000 lm
928601179001	MS400/U/PS 6PK	90 lm/W	30000 lm	-	40000 lm

## Mechanical and Housing

Order Code	Full Product Name	Bulb Shape
928601152103	MS175/BU/PS 12PK	ED-28
928601152203	MS250/BU/PS 12PK	ED-28
928601165501	Pulse Start MH Std 400W/640 CW Mog ED28 1SL	ED-28

Order Code	Full Product Name	Bulb Shape
928601165601	Pulse Start MH Std 400W/640 Mog ED28 1WR	ED-28
928601179001	MS400/U/PS 6PK	ED-37

## Pulse Start Metal Halide Standard

