



# Switch Start Metal Halide Protected

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An efficient, protected "O" rated lighting solution that is suitable for open-rated fixtures. Ideal for both indoor and outdoor applications.

### Benefits

- Available in various bases and wattages.

### Features

- Protective quartz shroud provides extra level of safety - shrouded arc tube for "O" open fixture rating.
- No shut-off required- Ideal for 24-hours a day, 7-days a week operations (relamp fixtures at or before the end of rated life)
- Extended eyelet mogul base will operate in both standard and exclusionary sockets.
- Satisfies the 2005 NEC for use in open luminaires†
- BT-56 base available in 1000 watts / ED-37 base available in 360 and 400 watts / ED 28 base available in 175 and 250 watts.
- \* Relamp fixtures at or before end of rated average life. † The 2005 NEC states that luminaires that use a metal halide lamp shall be provided with either a containment barrier that encloses the lamp (historically referred to as an enclosed luminaire) or shall be provided with a means, typically a special lampholder, that will only accept ANSI Type-O metal halide lamp. (Exception—this requirement will not apply to open luminaires with thick-glass parabolic reflector PAR lamps.) For more information regarding use of Type-O, S, and E metal halide systems, please refer to the NEMA white paper on this subject that is freely available at [www.nema.org](http://www.nema.org)

### Application

- Ideal for manufacturing facilities, retail establishments and warehouses.

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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-MP BT56 CL

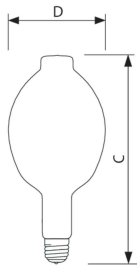
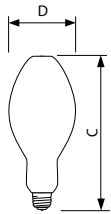


LPPR D-MP ED28 CL



LPPR MH E26 E27 CL

## Dimensional drawing

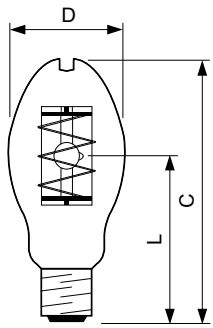
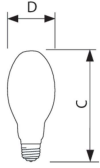


| Product         | D          | C (max)   |
|-----------------|------------|-----------|
| MP360/BU/EW 6PK | 4.625 inch | 11.5 inch |
| MP400/BU 6 PK   | 4.625 inch | 11.5 inch |

| Product       | D      | C (max)     |
|---------------|--------|-------------|
| MP1000/BU 6PK | 7 inch | 15.375 inch |

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## Dimensional drawing



| Product       | D        | C (max)    |
|---------------|----------|------------|
| MP250/BU 12PK | 3.5 inch | 8.313 inch |

| Product            | D (max) | L (min) | C (max) |
|--------------------|---------|---------|---------|
| MH 100W/640 E26 CL | 56 mm   | 83 mm   | 138 mm  |

### Mechanical and Housing

Bulb Finish Clear

## General Information

| Order Code   | Full Product Name | Cap-Base | Operating Position |
|--------------|-------------------|----------|--------------------|
| 928601157903 | MP400/BU 6 PK     | EX39     | H15                |
| 928601179201 | MP360/BU/EW 6PK   | EX39     | UNIVERSAL          |
| 928601179601 | MP1000/BU 6PK     | EX39     | H15                |

| Order Code   | Full Product Name  | Cap-Base | Operating Position |
|--------------|--------------------|----------|--------------------|
| 928601161903 | MP250/BU 12PK      | EX39     | H15                |
| 928485900194 | MH 100W/640 E26 CL | E26      | H                  |

## Light Technical

| Order Code   | Full Product Name  | Chromaticity       | Chromaticity       | Color Designation | Correlated Color Temperature (Nom) | Color rendering index (CRI) | Luminous Efficacy (Rated) (Min) | Luminous Efficacy (rated) (Nom) |
|--------------|--------------------|--------------------|--------------------|-------------------|------------------------------------|-----------------------------|---------------------------------|---------------------------------|
|              |                    | Coordinate X (Nom) | Coordinate Y (Nom) |                   |                                    |                             |                                 |                                 |
| 928601157903 | MP400/BU 6 PK      | 385                | 390                | Cool White (CW)   | 4000 K                             | 65                          | -                               | 100 lm/W                        |
| 928601179201 | MP360/BU/EW 6PK    | 385                | 390                | Cool White (CW)   | 4000 K                             | 65                          | -                               | 100 lm/W                        |
| 928601179601 | MP1000/BU 6PK      | 405                | 390                | White (WH)        | 3500 K                             | 65                          | -                               | 107 lm/W                        |
| 928601161903 | MP250/BU 12PK      | 395                | 395                | Cool White (CW)   | 3800 K                             | 62                          | 77 lm/W                         | 86 lm/W                         |
| 928485900194 | MH 100W/640 E26 CL | 385                | 390                | Cool White (CW)   | 4000 K                             | 65                          | -                               | 85 lm/W                         |

## Operating and Electrical

| Order Code   | Full Product Name | Lamp Current (Nom) | Voltage (Nom) | Power Consumption |
|--------------|-------------------|--------------------|---------------|-------------------|
| 928601157903 | MP400/BU 6 PK     | 3.25 A             | 135 V         | -                 |

| Order Code   | Full Product Name | Lamp Current (Nom) | Voltage (Nom) | Power Consumption |
|--------------|-------------------|--------------------|---------------|-------------------|
| 928601179201 | MP360/BU/EW 6PK   | 3.25 A             | 120 V         | -                 |

## Switch Start Metal Halide Protected

| Order Code   | Full Product Name | Lamp Current (Nom) | Voltage (Nom) | Power Consumption |
|--------------|-------------------|--------------------|---------------|-------------------|
| 928601179601 | MP1000/BU 6PK     | 4.1 A              | 263 V         | -                 |
| 928601161903 | MP250/BU 12PK     | 2.1 A              | 133 V         | -                 |

| Order Code   | Full Product Name  | Lamp Current (Nom) | Voltage (Nom) | Power Consumption |
|--------------|--------------------|--------------------|---------------|-------------------|
| 928485900194 | MH 100W/640 E26 CL | -                  | 100 V         | 106 W             |

### Controls and Dimming

| Order Code   | Full Product Name | Dimmable |
|--------------|-------------------|----------|
| 928601157903 | MP400/BU 6 PK     | -        |
| 928601179201 | MP360/BU/EW 6PK   | -        |
| 928601179601 | MP1000/BU 6PK     | -        |

| Order Code   | Full Product Name  | Dimmable |
|--------------|--------------------|----------|
| 928601161903 | MP250/BU 12PK      | -        |
| 928485900194 | MH 100W/640 E26 CL | No       |

### Mechanical and Housing

| Order Code   | Full Product Name | Bulb Material | Bulb Shape |
|--------------|-------------------|---------------|------------|
| 928601157903 | MP400/BU 6 PK     | Hard Glass    | ED37       |
| 928601179201 | MP360/BU/EW 6PK   | Hard Glass    | BT37       |
| 928601179601 | MP1000/BU 6PK     | Hard Glass    | BT56       |

| Order Code   | Full Product Name  | Bulb Material | Bulb Shape |
|--------------|--------------------|---------------|------------|
| 928601161903 | MP250/BU 12PK      | Hard Glass    | ED28       |
| 928485900194 | MH 100W/640 E26 CL | -             | ED17       |

### Approval and Application

| Order Code   | Full Product Name | Energy                 |                       | Mercury (Hg)  |
|--------------|-------------------|------------------------|-----------------------|---------------|
|              |                   | Consumption kWh/1000 h | Energy Saving Product | Content (Nom) |
| 928601157903 | MP400/BU 6 PK     | -                      | Not Applicable        | 57 mg         |
| 928601179201 | MP360/BU/EW 6PK   | -                      | Energy Saving         | 48 mg         |
| 928601179601 | MP1000/BU 6PK     | -                      | -                     | 150 mg        |

| Order Code   | Full Product Name  | Energy                 |                       | Mercury (Hg)  |
|--------------|--------------------|------------------------|-----------------------|---------------|
|              |                    | Consumption kWh/1000 h | Energy Saving Product | Content (Nom) |
| 928601161903 | MP250/BU 12PK      | -                      | Not Applicable        | 32 mg         |
| 928485900194 | MH 100W/640 E26 CL | 110 kWh                | -                     | 10.2 mg       |

