

# AMBIENT TEMPERATURE RATINGS FOR HIGH AND LOW BAY INDUSTRIAL FIXTURES

## General Description

The Beta Lighting High and Low Bay Industrial fixtures have varied applications. For some of these applications, it is necessary to know the ambient operating temperature rating of the product so that we can achieve expected electrical and mechanical component life. In some instances, specific lamps can only be operated in an enclosed luminaire. In other instances, job conditions or design preferences dictate enclosed luminaires. In either case, UL tests and recognizes the elevated ambient temperatures and allows the manufacturer to publish this data. Beta Lighting luminaires will operate safely at these published temperatures. **NOTE:** If your wattage is not listed, use the next higher wattage for ambient temperature.

| ALUMINUM REFLECTOR              |             |          | 16" PRISMATIC REFLECTOR         |             |          | 22' PRISMATIC REFLECTOR         |             |          |
|---------------------------------|-------------|----------|---------------------------------|-------------|----------|---------------------------------|-------------|----------|
| Lamp                            | Temperature |          | Lamp                            | Temperature |          | Lamp                            | Temperature |          |
|                                 | Open        | Enclosed |                                 | Open        | Enclosed |                                 | Open        | Enclosed |
| <b>PULSE START METAL HALIDE</b> |             |          | <b>PULSE START METAL HALIDE</b> |             |          | <b>PULSE START METAL HALIDE</b> |             |          |
| 250W PSMH                       | 60°C        | 60°C     | 150W PSMH                       | 50°C        | 40°C     | 250W PSMH                       | 55°C        | 40°C     |
| 320W PSMH                       | 55°C        | 55°C     | 250W PSMH                       | 45°C        | 40°C     | 320W PSMH                       | 50°C        | 40°C     |
| 450W PSMH                       | 50°C        | 55°C     | 320W PSMH                       | 45°C        | *B       | 400W PSMH                       | 40°C        | 40°C     |
| 750W PSMH                       | 45°C        | 50°C     | 450W PSMH                       | 40°C        | *B       | 750W PSMH                       | 40°C        | *B       |
| 1000W PSMH                      | *A          | 50°C     | <b>METAL HALIDE</b>             |             |          | 1000W PSMH                      | *A          | *B       |
| <b>METAL HALIDE</b>             |             |          | 175W MH                         | *A          | 40°C     | <b>METAL HALIDE</b>             |             |          |
| 250W MH                         | *A          | 60°C     | 250W MH                         | *A          | 40°C     | 250W MH                         | *A          | 40°C     |
| 400W MH (w/o fusing)            | 55°C        | 55°C     | 400W MH                         | 40°C        | *B       | 400W MH                         | 40°C        | 40°C     |
| 400W MH (w/fusing)              | 50°C        | 55°C     | <b>HIGH PRESSURE SODIUM</b>     |             |          | 1000W MH                        | 40°C        | *B       |
| 1000W MH                        | 45°C        | 50°C     | 250W HPS                        | 45°C        | 40°C     | <b>HIGH PRESSURE SODIUM</b>     |             |          |
| <b>HIGH PRESSURE SODIUM</b>     |             |          | 400W HPS                        | 40°C        | *B       | 400W HPS                        | 45°C        | 40°C     |
| 400W HPS                        | 60°C        | 55°C     |                                 |             |          |                                 |             |          |

| GLASS PRISMATIC                 |             |          | AISLE LIGHT REFLECTOR           |             |          | ENCLOSED 16" COMPACT LOW BAY    |                     |
|---------------------------------|-------------|----------|---------------------------------|-------------|----------|---------------------------------|---------------------|
| Lamp                            | Temperature |          | Lamp                            | Temperature |          | Lamp                            | Ambient Temperature |
|                                 | Open        | Enclosed |                                 | Open        | Enclosed |                                 | Temperature         |
| <b>PULSE START METAL HALIDE</b> |             |          | <b>PULSE START METAL HALIDE</b> |             |          | <b>PULSE START METAL HALIDE</b> |                     |
| 320W PSMH                       | 60°C        | 60°C     | 250W PSMH                       | 60°C        | 60°C     | 250W PSMH                       | 50°C                |
| 450W PSMH                       | 50°C        | 50°C     | 320W PSMH                       | 55°C        | 55°C     | 320W PSMH                       | 45°C                |
| <b>METAL HALIDE</b>             |             |          | 450W PSMH                       | 50°C        | 55°C     | 400W PSMH                       | 40°C                |
| 250W MH                         | *A          | 60°C     | <b>METAL HALIDE</b>             |             |          | <b>METAL HALIDE</b>             |                     |
| 400W MH                         | 50°C        | 50°C     | 250W MH                         | *A          | 60°C     | 250W MH                         | 50°C                |
| <b>HIGH PRESSURE SODIUM</b>     |             |          | 400MH (w/o fusing)              | 55°C        | 55°C     | 400W MH                         | 40°C                |
| 400W HPS                        | 50°C        | 50°C     | 400MH (with fusing)             | 50°C        | 55°C     | <b>HIGH PRESSURE SODIUM</b>     |                     |
|                                 |             |          |                                 |             |          | 400W HPS                        | 40°C                |
|                                 |             |          | <b>HIGH PRESSURE SODIUM</b>     |             |          |                                 |                     |
|                                 |             |          | 400W HPS                        | 55°C        | 55°C     |                                 |                     |

| ENCLOSED 22" MEDIUM LOW BAY     |                     | ENCLOSED 28" MEDIUM LOW BAY     |                     |
|---------------------------------|---------------------|---------------------------------|---------------------|
| Lamp                            | Ambient Temperature | Lamp                            | Ambient Temperature |
| <b>PULSE START METAL HALIDE</b> |                     | <b>PULSE START METAL HALIDE</b> |                     |
| 400W PSMH                       | 45°C                | 400W PSMH                       | 55°C                |
| <b>METAL HALIDE</b>             |                     | <b>METAL HALIDE</b>             |                     |
| 400W MH                         | 45°C                | 400W MH                         | 55°C                |
| <b>HIGH PRESSURE SODIUM</b>     |                     | <b>HIGH PRESSURE SODIUM</b>     |                     |
| 400W HPS                        | 50°C                | 400W HPS                        | 55°C                |

| CONVERSION TABLE |            |
|------------------|------------|
| Centigrade       | Fahrenheit |
| 25°C             | 77° F      |
| 40°C             | 104° F     |
| 55°C             | 131° F     |
| 65°C             | 149° F     |

Fahrenheit = °C x 1.8 + 32

\*A Lamp requires enclosure.  
\*B Wattage excessive for enclosed fixture.