# PRODUCT DATASHEET
# HQI-T 400 W/N

## POWERSTAR HQI-T | Metal halide lamps with quartz technology for enclosed luminaires



### AREAS OF APPLICATION

- Factories and workshops
- Sports halls and multi-purpose halls
- Industrial installations
- Docks and port facilities
- Marshaling yards, container transshipment facilities
- Buildings, monuments, bridges
- Approved only for use in enclosed luminaires
- Outdoor applications only in suitable luminaires

### PRODUCT BENEFITS

- Output of up to 400 W
- High efficiency
- Long lifetime
- E40 screw base for simple lamp handling
- UV values significantly below the maximum permitted thresholds to IEC 61167 thanks to UV filter

### PRODUCT FEATURES

- POWERSTAR quartz technology
- Light colors: neutral white (N), daylight (D)


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## TECHNICAL DATA

### Electrical data

| | |
|---|---|
| **Rated wattage** | 448.00 W |
| **Lamp current** | 3.9 A |
| **PFC capacitor at 50 Hz** | 45 µF [1)] |
| **Nominal wattage** | 440.00 W |
| **Nominal voltage** | 126 V |
| **Ignition voltage** | 4.0 / 5.0 kVp [2)] |

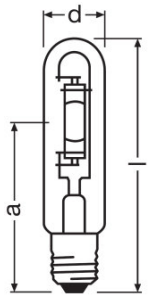
[1)] At rated voltage and cos φ ≥ 0.9

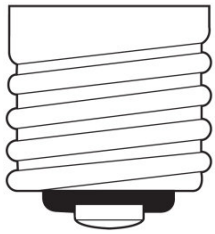
[2)] Minimum / Maximum

### Photometrical data

| | |
|---|---|
| **Rated lamp efficacy (standard condition)** | 90 lm/W |
| **Rated luminous flux** | 40000 lm |
| **Color temperature** | 3700 K |
| **Light color** | 3700 |
| **Rated LLMF at  2,000 h** | 0.85 |
| **Rated LLMF at 4,000 h** | 0.79 |
| **Rated LLMF at 6,000 h** | 0.68 |
| **Rated LLMF at 8,000 h** | 0.65 |
| **Rated LLMF at 12,000 h** | 0.62 |
| **UV protection** | Yes |
| **Luminous flux** | 40000 lm |
| **Color rendering index Ra** | 62 |

### Dimensions & weight



E40
IEC 7004-24
DIN 49625

| | |
|---|---|
| **Diameter** | 46.0 mm |
| **Length** | 273.0 mm |
| **Light center length (LCL)** | 175.0 mm |
| **Product weight** | 179.40 g |


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## Temperatures & operating conditions

| | |
|---|---|
| **Maximum permitted outer bulb temperature** | 500 °C |
| **Maximum permitted base edge temperature** | 250 °C |

## Lifespan

| | |
|---|---|
| **Rated lamp survival factor at 2,000 h** | 0.99 |
| **Rated lamp survival factor at 4,000 h** | 0.98 |
| **Rated lamp survival factor at 6,000 h** | 0.93 |
| **Rated lamp survival factor at 8,000 h** | 0.83 |
| **Rated lamp survival factor at 12,000 h** | 0.50 |
| **Lifespan B50** | 12000 h |

## Additional product data

| | |
|---|---|
| **Base (standard designation)** | E40 |
| **Product remark** | With NAV control gear |
| **Design / version** | Clear |
| **Mercury content** | 52.0 mg |

## Capabilities

| | |
|---|---|
| **Dimmable** | No |
| **Burning position** | p45 |
| **Enclosed luminaire required** | Yes |

## Certificates & standards

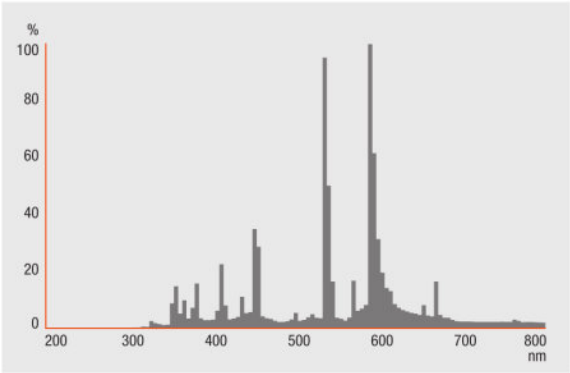
| | |
|---|---|
| **Energy efficiency class** | A+ |
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| **Energy consumption** | 493 kWh/1000h |

## Country-specific categorizations

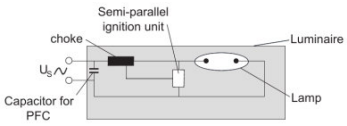
| | |
|---|---|
| **ILCOS** | MT/UB-400/742-H/E/SL-E40-46/273/H |


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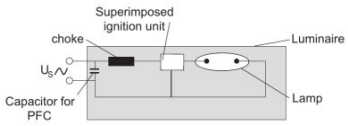
## Light Distribution




Spectral power distribution




Circuit diagram




Circuit diagram

## LOGISTICAL DATA

| Product code | Product description | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume | Gross weight |
|---|---|---|---|---|---|
| 4058075039766 | HQI-T 400 W/N | Shipping carton box 12 | 266 mm x 216 mm x 342 mm | 19.65 $dm^3$ | 2783.00 g |

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

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