PRODUCT DATASHEET
HQI-E 400 W/N CL

POWERSTAR HQI-E clear | Metal halide lamps with quartz technology for enclosed luminaires



AREAS OF APPLICATION

- Factories and workshops
- Exhibition halls and trade fairs
- Sports halls and multi-purpose halls
- Approved only for use in enclosed luminaires
- Outdoor applications only in suitable luminaires

PRODUCT BENEFITS

- 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 color: neutral white (N)



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TECHNICAL DATA

Electrical data

Rated wattage	442.00 W
Lamp current	3.8 A
PFC capacitor at 50 Hz	45 µF [1)]
Nominal wattage	440.00 W
Nominal voltage	125 V
Ignition voltage	4.0 / 5.0 kVp [2)]

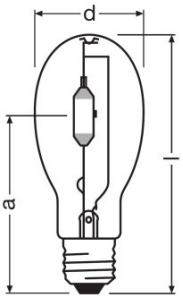
[1)] At rated voltage and cos φ ≥ 0.9

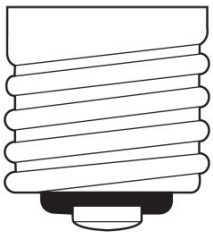
[2)] Minimum / Maximum

Photometrical data

Rated lamp efficacy (standard condition)	93 lm/W
Rated luminous flux	42000 lm
Color temperature	4000 K
Light color	4000
Rated LLMF at 2,000 h	0.86
Rated LLMF at 4,000 h	0.75
Rated LLMF at 6,000 h	0.68
Rated LLMF at 8,000 h	0.64
UV protection	Yes
Luminous flux	42000 lm
Color rendering index Ra	62

Dimensions & weight





E40
IEC 7004-24
DIN 49625

Diameter	120.0 mm
Length	290.0 mm
Light center length (LCL)	198.0 mm
Product weight	249.20 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	0.99
Rated lamp survival factor at 6,000 h	0.70
Lifespan B50	9000 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	h45
Enclosed luminaire required	Yes

Certificates & standards

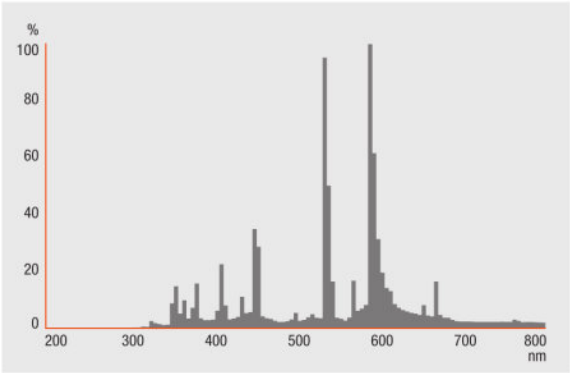
Energy efficiency class	A+
Energy efficiency class	A+
Energy consumption	495 kWh/1000h

Country-specific categorizations

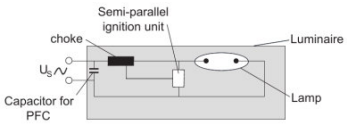
ILCOS	MC/UB-400/637-H/E/SL-E40-120/290

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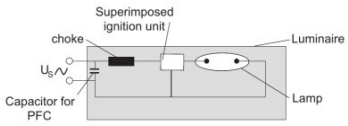
Light Distribution



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
4058075039780	HQI-E 400 W/N CL	Shipping carton box 12	545 mm x 410 mm x 410 mm	91.61 dm^3	5560.00 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.

DISCLAIMER

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