HCI-TT 70 W/830 SUPER 4Y

POWERBALL HCI-TT SUPER 4Y | Metal halide lamps with ceramic technology for enclosed luminaires



Areas of application

- Streets
- Outdoor lighting
- Industrial installations
- Exhibition halls and trade fairs
- Approved only for use in enclosed luminaires
- Outdoor applications only in suitable luminaires

Product benefits

- Up to 15 % higher lumen maintenance factor compared to HCI-TT standard lamps
- Up to 30 % higher lum. efficacy for lamps ≤ 100 W (comp. to NAV-T Super 4Y/6Y)
- Good color rendering
- Operation in existing HPS installations as ignition voltage of IEC 60662 is met
- Energy savings of up to 70 % when replacing mercury vapor lamps (HQL)
- Optimum energy efficiency on POWERTRONIC PTo 3DIM ECGs
- UV values significantly below the maximum permitted thresholds to IEC 61167 thanks to UV filter

Product features

- White light due to POWERBALL ceramic technology
- Light color: warm white (830 WDL)
- Extended service lifetime: 4 years (at approx. 11 h/day)
- Very high luminous efficacy: up to 125 lm/W
- Lamp survival factor: 95 % after 16,000 h burning time
- Average lifetime: up to 24,000 h
- ErP compliant according to EU Regulation 245/2009



© 2018, OSRAM GmbH. All rights reserved.

- Dimmable on conventional control gears and electronic control gears

© 2018, OSRAM GmbH. All rights reserved.

Technical data

Electrical data

Nominal wattage	70.00 W
Rated wattage	75.00 W
Lamp current	1.0 A
PFC capacitor at 50 Hz	12 µF [1)]
Nominal voltage	95 V
Ignition voltage	1.8 kVp;5.0 kVp [2)]

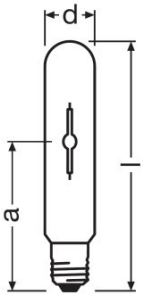
1) At rated voltage and cos φ ≥ 0.9

2) Minimum;Maximum

Photometrical data

Rated lamp efficacy (standard condition)	104 lm/W
Rated luminous flux	8000 lm
Color rendering index Ra	80
Color temperature	3200 K
Light color	3200
Rated LLMF at 2,000 h	0.92
Rated LLMF at 4,000 h	0.90
Rated LLMF at 6,000 h	0.89
Rated LLMF at 8,000 h	0.88
Rated LLMF at 12,000 h	0.85
Rated LLMF at 16,000 h	0.83
Rated LLMF at 20,000 h	0.75
UV protection	Yes

Dimensions & weight



Diameter	35.0 mm

© 2018, OSRAM GmbH. All rights reserved.

Length	156.0 mm
Light center length (LCL)	102.0 mm
Product weight	60.00 g

Temperatures & operating conditions

Maximum permitted outer bulb temperature	350 °C
Maximum permitted base edge temperature	210 °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	0.98
Rated lamp survival factor at 8,000 h	0.97
Rated lamp survival factor at 12,000 h	0.97
Rated lamp survival factor at 16,000 h	0.95
Rated lamp survival factor at 20,000 h	0.78
Lifespan B50	24000 h
Lifespan B10	18000 h
Lifespan B5	16000 h
Operation mode LLMF/LSF	50 Hz

Additional product data

Base (standard designation)	E27
Design / version	Clear
System guarantee level	3 (2/5)
Mercury content	7.0 mg

Capabilities

Dimmable	Yes [1)]
Burning position	Any
Enclosed luminaire required	Yes

[1)] In combination with POWERTRONIC PTo

Certificates & standards

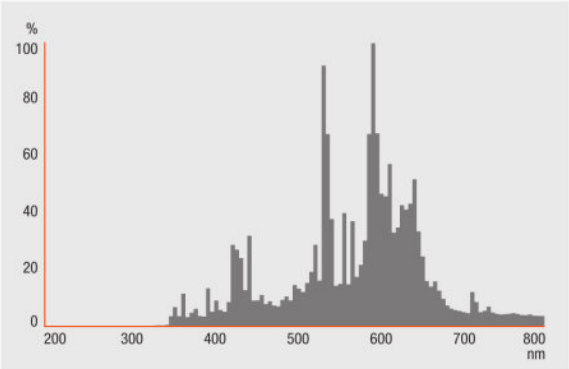
Energy efficiency class	A+
Energy consumption	85 kWh/1000h

Country specific categorizations

ILCOS	MT/UB-70/830-H/E/SL-E27-32/155

© 2018, OSRAM GmbH. All rights reserved.

Light Distribution



Spectral power distribution

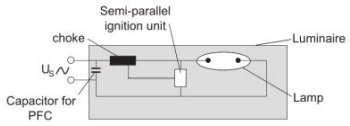
System guarantee

For the vast majority of our lamps we are offering an extended system guarantee in conjunction with OSRAM POWERTRONIC control gear.

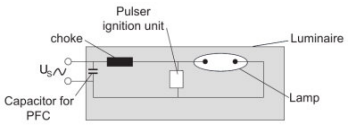
Safety advice

Where possible, use a timer igniter (switch-off time of at least 15 minutes). Otherwise, switch off the luminaire for at least 15 minutes if a brief interruption has occurred to the mains voltage supply.

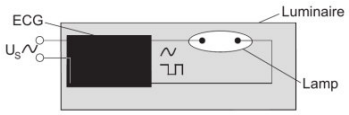
© 2018, OSRAM GmbH. All rights reserved.



Circuit diagram



Circuit diagram



Circuit diagram

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899378339	HCI-TT 70 W/830 SUPER 4Y	Shipping carton box 12 Pieces Sleeves	210 mm x 171 mm x 212 mm	7.61 dm^3	967.00 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.

References / Links

For more information on the system guarantee and the terms and conditions of the guarantee visit

- www.osram.com/system-guarantee

Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.

© 2018, OSRAM GmbH. All rights reserved.