

PRODUCT DATASHEET

HCI-TT 250 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
- Dimmable on conventional control gears and electronic control gears

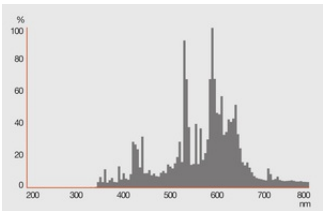
TECHNICAL DATA

Electrical data

Nominal wattage	250 W
Construction wattage	255.00 W
Nominal voltage	96 V
Ignition voltage	3.3/5.0 kVp
Operating mode	Conventional control gear (CCG) and ignitor, Electronic control gear (ECG)
Nominal current	3 A
PFC capacitor at 50 Hz	32 µF

Photometrical data

Luminous flux	30000 lm
Luminous efficacy	125 lm/W
Color temperature	3000 K
Color rendering index Ra	≥80
Light color	830
Rated LLMF at 2,000 h	0.93
Rated LLMF at 4,000 h	0.90
Rated LLMF at 6,000 h	0.88
Rated LLMF at 8,000 h	0.85
Rated LLMF at 12,000 h	0.84
Rated LLMF at 16,000 h	0.83
Rated LLMF at 20,000 h	0.75
Rated lamp efficacy (standard co.)	125 lm/W
UV protection	Yes



502820_HCI_TT_ET_830_SUPER_4Y

Dimensions & Weight

Overall length	226.00 mm
Light center length (LCL)	158,0 mm
Diameter	47.00 mm
Product weight	140.00 g

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	0.98
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	0.95
Rated lamp survival factor at 20,000 h	0.78
Lifespan B10	18000 h
Lifespan B5	16000 h
Lifespan B50	24000 h
Operation mode LLMF/LSF	50 Hz

Additional product data

Base (standard designation)	E40
Mercury content	27.3 mg
Mercury-free	No
Design / version	Clear
System guarantee level	3 (2/5)

Capabilities

Dimmable	Yes ¹⁾
Burning position	Any
Enclosed luminaire required	Yes

¹⁾ In combination with POWERTRONIC PTo

Certificates & Standards

Energy efficiency class	F
Energy consumption	281.60 kWh/1000h

Country-specific categorizations

ILCOS	MT/UB-250/830-H/E/SL-E40-47/226
Order reference	HCI-TT 250W/830


Energy labelling regulation data acc EU 2019/2015

Lighting technology used	MH
Non-directional or directional	NDLS
Mains or non-mains	NMLS
Light source cap-type (or other electric interface)	E40
Connected light source (CLS)	No
Color-tuneable light source	No
Envelope	SECOND
High luminance light source	No
Anti-glare shield	No
Correlated colour temperature type	SINGLE_VALUE
Claim of equivalent power	No
Length	226.00 mm
Height	47.00 mm
Width	47.00 mm
Chromaticity coordinate x	0.433
Chromaticity coordinate y	0.398
Beam angle correspondence	SPHERE_360
EPREL ID	1535147
Model number	AC01720

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.
- Disconnect mains before installation.
- Must not be used if outer bulb is defective.
- Do not stare at the operating light source: The luminaire should be positioned so that prolonged staring into the luminaire at a distance closer than 4 m is not expected.
- Lamp to be used only in a closed luminaire.

DOWNLOAD DATA

Photometric and lighting design files		Document name
	Spectral power distribution	502820_HCI_TT_ET_830_SUPER_4Y

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4052899081826	Sleeve 1	52 mm x 52 mm x 260 mm	160.00 g	0.70 dm ³
4052899081833	Shipping box 12	266 mm x 216 mm x 277 mm	2358.00 g	15.92 dm ³

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.ledvance.com/system-guarantee

DISCLAIMER

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