

PRODUCT DATASHEET

HCI-TC 20 W/830 WDL PB

POWERBALL HCI-TC | Metal halide lamps with ceramic technology for enclosed luminaires



AREAS OF APPLICATION

- Shop interiors, shop windows
- Shopping arcades
- Foyers, reception areas
- Museums, exhibitions
- Accent lighting
- Decorative lighting
- Approved only for use in enclosed luminaires
- Outdoor applications only in suitable luminaires

PRODUCT BENEFITS

- Very high efficiency
- Good to excellent color rendering
- Very good color stability
- UV values significantly below the maximum permitted thresholds to IEC 61167 thanks to UV filter

PRODUCT FEATURES

- POWERBALL ceramic technology
- Light colors: warm white (830 WDL), neutral white (942 NDL)
- Average lifetime: 15,000 h (operation with ECG with 70...400 Hz square-wave current)
- Average lifetime: 12,000 h (with magnetic control gear)
- HCI-TC 20 W, HCI-TC 50 W only for operation with ECG with 70...400 Hz square-wave current



TECHNICAL DATA

Electrical data

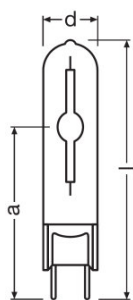
Nominal wattage	20.00 W
Rated wattage	20.00 W
Lamp current	0.23 A
Ignition voltage	3.6 / 5.0 kVp ¹⁾

¹⁾ Minimum; for superimposed ignition with square wave electronic ballast 3.0 kVp are sufficient / Maximum; this limit is for safety reasons

Photometrical data

Luminous flux	1700 lm
Luminous efficacy	85 lm/W
Color rendering index Ra	83
Color temperature	3000 K
Light color	830
Rated LLMF at 2,000 h	0.80
Rated LLMF at 4,000 h	0.75
Rated LLMF at 6,000 h	0.71
Rated LLMF at 8,000 h	0.69
Rated LLMF at 12,000 h	0.65
UV protection	Yes

Dimensions & weight



Diameter	15.0 mm
Length	81.0 mm
Light center length (LCL)	52.0 mm
Product weight	8.00 g

Temperatures & operating conditions

Maximum permitted outer bulb temperature	400 °C
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Maximum permitted pinch temperature	330 °C
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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	0.97
Rated lamp survival factor at 8,000 h	0.96
Rated lamp survival factor at 12,000 h	0.80
Lifespan B50	15000 h ¹⁾
Operation mode LLMF/LSF	ECG

¹⁾ At ECG

Additional product data

Base (standard designation)	G8.5
Product remark	Only for operation with electronic control gear with 70...400 Hz square-wave current
System guarantee level	3 (2/5)
Mercury content	3.7 mg ¹⁾

¹⁾ Maximum

Capabilities

Dimmable	No
Burning position	Any
Enclosed luminaire required	Yes

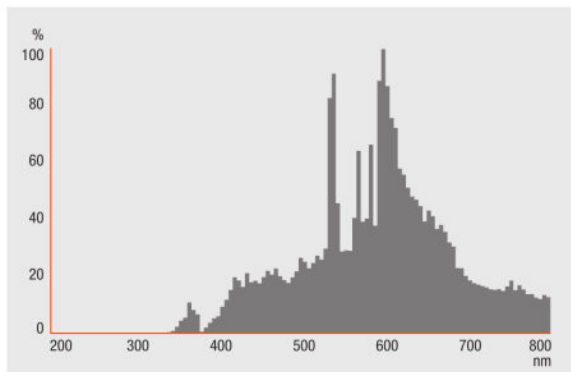
Certificates & standards

Energy efficiency class	A
Energy consumption	22 kWh/1000h

Country-specific categorizations

ILCOS	MT/UB-20/830-H/L-G8.5-17/85
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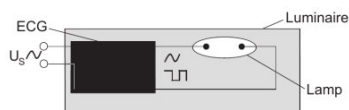
Light Distribution



Spectral power distribution

SYSTEM GUARANTEE

When operated with OSRAM POWERTRONIC control gear, an extended system guarantee is granted for these lamps



Circuit diagram

LOGISTICAL DATA

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4008321683007	HCI-TC 20 W/830 WDL PB	Shipping carton box 12	180 mm x 127 mm x 140 mm	3.20 dm ³	351.00 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.ledvance.com/system-guarantee

DISCLAIMER

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