

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 ND)
- 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

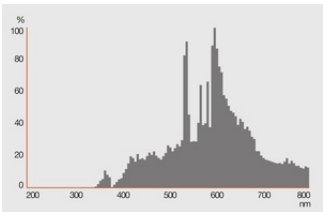
Electrical data

Nominal wattage	20 W
Construction wattage	20.00 W
Nominal voltage	95 V
Ignition voltage	3.6/5.0 kVp ¹⁾
Operating mode	Electronic control gear (ECG) only
Nominal current	0.23 A

1) Minimum / for superimposed ignition with square wave electronic ballast 3.0 kVp are sufficient

Photometrical data

Luminous flux	1700 lm
Luminous efficacy	85 lm/W
Color temperature	3030 K
Color rendering index Ra	83
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
Rated lamp efficacy (standard co.)	85 lm/W
UV protection	Yes



384067_HCI_830_WDL

Dimensions & Weight

Overall length	81.00 mm
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Light center length (LCL)	52,0 mm
Diameter	15,0 mm
Product weight	8.00 g

Temperatures & operating conditions

Maximum permitted outer bulb temperature	400 °C
Maximum permitted pinch temperature	330 °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	0.97
Rated lamp survival factor at 8,000 h	0.96
Rated lamp survival factor at 12,000 h	0.80
Rated lamp survival factor at 16,000	0.50
Lifespan B50	15000 h ¹⁾
Operation mode LLMF/LSF	ECG

¹⁾ At ECG

Additional product data

Base (standard designation)	G8.5
Mercury content	3.7 mg ¹⁾
Mercury-free	No
Design / version	Clear
Product remark	Only for operation with electronic control gear with 70...400 Hz square-wave current
System guarantee level	3 (2/5)

¹⁾ Maximum

Capabilities

Dimmable	Yes
Burning position	Any
Enclosed luminaire required	Yes
Hot restart	No

Certificates & Standards

Energy efficiency class	A
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Energy consumption	22.00 kWh/1000h
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Country-specific categorizations

ILCOS	MT/UB-20/830-H/L-G8.5-17/85
Order reference	HCI-TC 20W/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)	G8.5
Connected light source (CLS)	No
Color-tuneable light source	No
Envelope	SECOND
High luminance light source	No
Anti-glare shield	No
Claim of equivalent power	No
Length	81.00 mm
Height	15,0 mm
Width	15,0 mm
Chromaticity coordinate x	0.430
Chromaticity coordinate y	0.392
Beam angle correspondence	SPHERE_360
EPREL ID	1535124
Model number	AA33824

DOWNLOAD DATA

Documents and certificates		Document name
	User instruction / safety instructions	High-Intensity-Discharge lamps. Operation instructions
Photometric and lighting design files		Document name
	Spectral power distribution	384067_HCI_830_WDL

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4008321683007	Folding box 1	42 mm x 42 mm x 111 mm	22.00 g	0.20 dm ³
4008321683014	Shipping box 12	180 mm x 127 mm x 140 mm	351.00 g	3.20 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.