

## PRODUCT DATASHEET

### HCI-TC 70 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	70 W
Construction wattage	73.00 W
Nominal voltage	96 V
Ignition voltage	3.6/5.0 kVp <sup>1)</sup>
Operating mode	Conventional control gear (CCG) and ignitor, Electronic control gear (ECG)
Nominal current	0.95 A
PFC capacitor at 50 Hz	12 µF

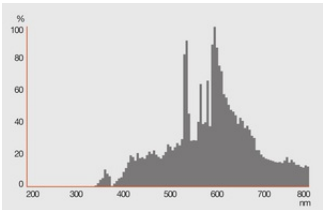
1) Minimum / for superimposed ignition with square wave electronic ballast 3.0 kVp are sufficient

Photometrical data

Luminous flux	7200 lm <sup>1)</sup>
Luminous efficacy	99 lm/W <sup>2)</sup>
Color temperature	2910 K
Color rendering index Ra	89
Light color	829
Rated LLMF at 2,000 h	0.85
Rated LLMF at 4,000 h	0.79
Rated LLMF at 6,000 h	0.74
Rated LLMF at 8,000 h	0.69
Rated LLMF at 12,000 h	0.61
Rated LLMF at 16,000 h	0.52
Rated lamp efficacy (standard co.)	99 lm/W
UV protection	Yes

1) In operation with electronic control gear with 70...400 Hz square-wave current.Operation with magnetic ballast can be less efficient

2) In operation with low frequency square wave electronic ballast, 70...400 Hz. Operation with electromagnetic ballast may be less efficient.



### Dimensions & Weight

Overall length	81.00 mm
Light center length (LCL)	52,0 mm
Diameter	15,0 mm
Product weight	9.00 g

### Temperatures & operating conditions

Maximum permitted outer bulb temperature	550 °C
Maximum permitted pinch temperature	350 °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
Rated lamp survival factor at 20,000 h	0.19
Lifespan B50	15000 h <sup>1)</sup>
Operation mode LLMF/LSF	ECG

<sup>1)</sup> At ECG

### Additional product data

Base (standard designation)	G8.5
Mercury content	7.6 mg <sup>1)</sup>
Mercury-free	No
Design / version	Clear
System guarantee level	3 (2/5)

<sup>1)</sup> Maximum

### Capabilities

Dimmable	Yes <sup>1)</sup>
Burning position	Any
Enclosed luminaire required	Yes

Hot restart	No
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1) In combination with POWERTRONIC PTo

Certificates & Standards

Energy efficiency class	F
Energy consumption	80.30 kWh/1000h


Country-specific categorizations

ILCOS	MT/UB-70/830-H/SL-G8.5-17/85
Order reference	HCI-TC 70W/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
Correlated colour temperature type	SINGLE_VALUE
Claim of equivalent power	No
Length	81.00 mm
Height	15,0 mm
Width	15,0 mm
Chromaticity coordinate x	0.441
Chromaticity coordinate y	0.401
Beam angle correspondence	SPHERE_360
EPREL ID	1535158
Model number	AC13774

DOWNLOAD DATA

Documents and certificates	
	User instruction

Photometric and lighting design files



Spectral power distribution

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4008321681799	Folding box 1	111 mm x 42 mm x 42 mm	23.00 g	0.20 dm <sup>3</sup>
4008321681805	Shipping box 12	180 mm x 127 mm x 140 mm	363.00 g	3.20 dm <sup>3</sup>

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](http://www.ledvance.com/system-guarantee)

DISCLAIMER

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