

PRODUCT DATASHEET

HCI-TC 70 W/942 NDL 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	86 V
Ignition voltage	3.6/5.0 kVp ¹⁾
Nominal current	1 A
PFC capacitor at 50 Hz	12 µF

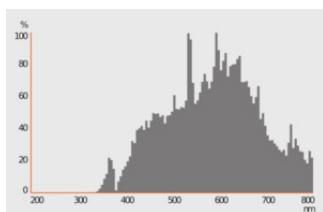
¹⁾ Minimum / for superimposed ignition with square wave electronic ballast 3.0 kVp are sufficient

Photometrical data

Luminous flux	6800 lm ¹⁾
Luminous efficacy	93 lm/W ²⁾
Color temperature	3730 K
Color rendering index Ra	96
Light color	937
Rated LLMF at 2,000 h	0.90
Rated LLMF at 4,000 h	0.88
Rated LLMF at 6,000 h	0.86
Rated LLMF at 8,000 h	0.84
Rated LLMF at 12,000 h	0.80
Rated LLMF at 16,000 h	0.75
Rated lamp efficacy (standard co.)	93 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
Maximum diameter	15 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	0.98
Rated lamp survival factor at 6,000	0.97
Rated lamp survival factor at 8,000 h	0.92
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 ¹⁾
Operation mode LLMF/LSF	ECG

¹⁾ At ECG

Additional product data

Base (standard designation)	G8.5
Mercury content	6.7 mg ¹⁾
Mercury-free	No
Design / version	Clear
System guarantee level	3 (2/5)

¹⁾ Maximum

Capabilities

Dimmable	Yes ¹⁾
Burning position	Any
Enclosed luminaire required	Yes
Hot restart	No



1) In combination with POWERTRONIC PTo

Certificates & Standards

Energy efficiency class	A+
Energy consumption	80.30 kWh/1000h




Country-specific categorizations

ILCOS	MT/UB-70/942-H/SL-G8.5-17/85
Order reference	HCI-TC 70W/942

Energy labelling regulation data acc EU 2019/2015

Light source cap-type (or other electric interface)	G8.5
Length	81.00 mm
Height	15,0 mm
Width	15,0 mm

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LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4008321681836	Folding box 1	111 mm x 42 mm x 42 mm	20.00 g	0.20 dm ³
4008321681843	Shipping box 12	180 mm x 127 mm x 140 mm	363.00 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.