

PRODUCT DATASHEET HCI-T 70 W/830 WDL PB

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



AREAS OF APPLICATION

- Shop interiors, shop windows
- Shopping arcades
- Foyers, reception areas
- Museums, exhibitions
- Exhibition halls and trade fairs
- Factories and workshops
- 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, 930 WDL), neutral white (942 NDL)
- Average lifetime: 15,000 h (ECG with 70...400 Hz square-wave current)
- Average lifetime 150 W version: 20,000 h (ECG with 70...400 Hz square-wave current)
- Average lifetime: 12,000 h (with magnetic control gear)



TECHNICAL DATA

Electrical data

Nominal wattage	70.00 W
Rated wattage	73.00 W
Lamp current	0.96 A
PFC capacitor at 50 Hz	12 µF ¹⁾
Ignition voltage	3.6 / 5.0 kVp ²

^1) At rated voltage and $\cos\phi \geq 0.9$

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

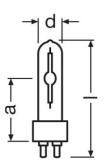
Photometrical data

Luminous flux	7400 lm ¹⁾
Luminous efficacy	101 lm/W ²⁾
Color rendering index Ra	89
Color temperature	3000 К
Light color	830
Rated LLMF at 2,000 h	0.85
Rated LLMF at 4,000 h	0.81
Rated LLMF at 6,000 h	0.80
Rated LLMF at 8,000 h	0.78
Rated LLMF at 12,000 h	0.75
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



Diameter	20.0 mm
Length	100.0 mm
Light center length (LCL)	56.0 mm
Product weight	28.00 g

Temperatures & operating conditions

Maximum permitted outer bulb temperature	500 °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
Lifespan B50	15000 h ¹⁾
Operation mode LLMF/LSF	ECG

¹⁾ At ECG

Additional product data

Base (standard designation)	G12
Design / version	Clear
System guarantee level	3 (2/5)
Mercury content	6.1 mg ¹⁾

¹⁾ Maximum

Capabilities

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

 $^{\mbox{1}\mbox{)}}$ In combination with POWERTRONIC PTo

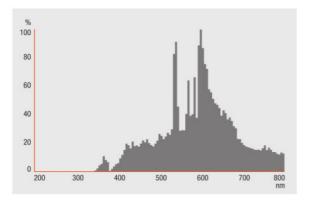
Certificates & standards

Energy efficiency class	A+
Energy consumption	81 kWh/1000h

Country-specific categorizations

ILCOS	MT/UB-70/830-H/SL-G12-20/90
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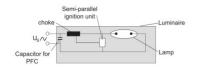
Light Distribution

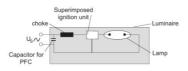


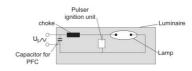
Spectral power distribution

SYSTEM GUARANTEE

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







Circuit diagram

Circuit diagram

Circuit diagram



Circuit diagram

LOGISTICAL DATA

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4008321678430	HCI-T 70 W/830 WDL PB	Shipping carton box 12	180 mm x 161 mm x 139 mm	4.03 dm ³	586.00 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.