

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 W
Construction wattage	73.00 W
Nominal voltage	95 V
Ignition voltage	3.6/5.0 kVp ¹⁾
Operating mode	Conventional control gear (CCG) and ignitor, Electronic control gear (ECG)
Nominal current	0.96 A
PFC capacitor at 50 Hz	12 µF

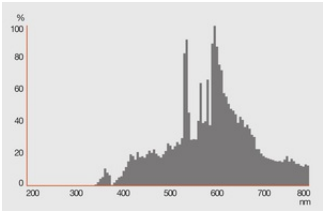
1) Minimum / for superimposed ignition with square wave electronic ballast 3.0 kVp are sufficient

Photometrical data

Luminous flux	7400 lm ¹⁾
Luminous efficacy	101 lm/W ²⁾
Color temperature	3000 K
Color rendering index Ra	89
Light color	830
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	0.70
Rated LLMF at 12,000 h	0.63
Rated LLMF at 16,000 h	0.58
Rated LLMF at 20,000 h	0.53
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.



384067_HCI_830_WDL

Dimensions & Weight

Overall length	100.00 mm
Light center length (LCL)	56,0 mm
Diameter	20,0 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
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)	G12
Mercury content	7.6 mg ¹⁾
Mercury-free	No
Design / version	Clear

System guarantee level	3 (2/5)
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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	F
Energy consumption	80.30 kWh/1000h

Country-specific categorizations


ILCOS	MT/UB-70/830-H/SL-G12-20/90
Order reference	HCI-T 70W/830 W


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)	G12
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	100.00 mm
Height	20,0 mm
Width	20,0 mm
Chromaticity coordinate x	0.433
Chromaticity coordinate y	0.395
Beam angle correspondence	SPHERE_360

EPREL ID	1535153
Model number	AC13767

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
4008321678430	Folding box 1	42 mm x 42 mm x 142 mm	43.00 g	0.25 dm ³
4008321678447	Shipping box 12	180 mm x 161 mm x 139 mm	586.00 g	4.03 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

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