

PRODUCT DATASHEET

HCI-TC 70 W/930 WDL PB Excellence

POWERBALL HCI®-TC Excellence | 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
- Excellent color rendering
- Very long lifetime
- 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 (930 WDL), neutral white (942 NDL)
- Color rendering index R_a : ≥ 90
- Average lifetime: 20,000 h (operation with ECG with 70...400 Hz square-wave current)



- Average lifetime: 15,000 h (with magnetic control gear)
- HCI-TC 50 W, HCI-TC 35W/942 NDL and 70W/942 NDL only for operation with ECG with 70...400 Hz square-wave current

TECHNICAL DATA

Electrical data

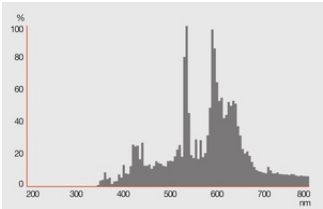
Nominal wattage	70 W
Construction wattage	73.00 W
Nominal voltage	85 V
Ignition voltage	3.6/5.0 kVp ¹⁾
Operating mode	Conventional control gear (CCG) and ignitor, Electronic control gear (ECG)
Nominal current	0.99 A
PFC capacitor at 50 Hz	12 µF

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

Photometrical data

Luminous flux	8300 lm ¹⁾
Luminous efficacy	112 lm/W
Color temperature	3000 K
Color rendering index Ra	90
Light color	930
Rated LLMF at 2,000 h	0.92
Rated LLMF at 4,000 h	0.91
Rated LLMF at 6,000 h	0.87
Rated LLMF at 8,000 h	0.85
Rated LLMF at 12,000 h	0.80
Rated lamp efficacy (standard co.)	113 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



384068_HCI_930_PLUS

Dimensions & Weight

Overall length	81.00 mm
Light center length (LCL)	52,0 mm
Diameter	15.00 mm
Maximum diameter	15 mm
Product weight	9.00 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	0.99
Rated lamp survival factor at 6,000 h	0.98
Rated lamp survival factor at 8,000 h	0.97
Rated lamp survival factor at 12,000 h	0.95
Rated lamp survival factor at 16,000	0.80
Rated lamp survival factor at 20,000 h	0.50
Lifespan B50	20000 h ¹⁾
Operation mode LLMF/LSF	ECG

¹⁾ At ECG

Additional product data

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

Capabilities

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

Certificates & Standards

Energy efficiency class	F
Energy consumption	80.30 kWh/1000h

Country-specific categorizations

ILCOS	MT/UB-70/930-H/E/SL-G8.5-17/85
Order reference	HCI-TC 70W/930W


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	15.00 mm
Width	15.00 mm
Chromaticity coordinate x	0.433
Chromaticity coordinate y	0.399
Beam angle correspondence	SPHERE_360
EPREL ID	1535142
Model number	AA78464

Safety advice

- Disconnect mains before installation.
- Must not be used if outer bulb is defective.
- Lamp to be used only in a closed luminaire.

DOWNLOAD DATA

Photometric and lighting design files		Document name
	Spectral power distribution	384068_HCI_930_PLUS

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4052899238749	Folding box 1	42 mm x 42 mm x 111 mm	23.00 g	0.20 dm ³
4052899238756	Shipping box 12	180 mm x 140 mm x 127 mm	328.00 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.

DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.