

PRODUCT DATASHEET

HCI-TC 70 W/942 NDL 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 $R_a: \geq 90$
- 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

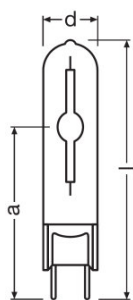
Rated wattage	73.00 W
Lamp current	0.87 A
Nominal wattage	70.00 W
Ignition voltage	3.6 / 5.0 kVp ¹⁾

¹⁾ Minimum; for superimposed ignition with square wave electronic ballast 3.0 kVp are sufficient / Maximum; this limit is for safety reasons

Photometrical data

Luminous efficacy	105 lm/W
Luminous flux	7700 lm
Light color	940
Rated LLMF at 2,000 h	0.91
Rated LLMF at 4,000 h	0.88
Rated LLMF at 6,000 h	0.85
Rated LLMF at 8,000 h	0.82
Rated LLMF at 12,000 h	0.80
UV protection	Yes
Color temperature	4000 K
Color rendering index Ra	93

Dimensions & weight



Diameter	15.0 mm
Length	81.0 mm
Light center length (LCL)	52.0 mm
Product weight	9.00 g

Lifespan

Rated lamp survival factor at 2,000 h	0.99
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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	0.92
Rated lamp survival factor at 16,000 h	0.80
Rated lamp survival factor at 20,000 h	0.50
Lifespan B50	20000 h
Operation mode LLMF/LSF	ECG

Additional product data

Base (standard designation)	G8.5
Product remark	Only for operation with electronic control gear with 70...400 Hz square-wave current
System guarantee level	3 (2/5)
Mercury content	5.1 mg

Capabilities

Dimmable	Yes ¹⁾
Burning position	Any
Enclosed luminaire required	Yes

¹⁾ In combination with POWERTRONIC PTo

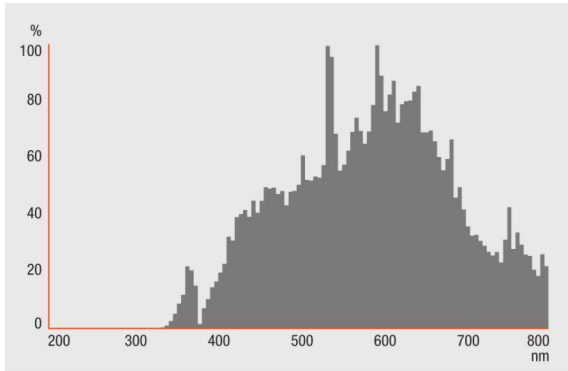
Certificates & standards

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

Country-specific categorizations

ILCOS	MT/UB-70/942-H/E/L-G8.5-17/85
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Light Distribution



Spectral power distribution

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4052899265103	Folding carton box 1	42 mm x 42 mm x 111 mm	23.00 g	0.20 dm ³
4052899265110	Shipping carton box 12	180 mm x 140 mm x 127 mm	329.00 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.

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