

PRODUCT DATASHEET

HCI-TS 70 W/942 NDL PB

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



Areas of application

- Shopping arcades
- Foyers, reception areas
- Museums, exhibitions
- Exhibition halls and trade fairs
- Factories and workshops
- Buildings, monuments, bridges
- 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
- Average lifetime: 15,000 h (operation with ECG with 70...400 Hz square-wave current)
- Average lifetime: 12,000 h (with magnetic control gear)



TECHNICAL DATA

Electrical data

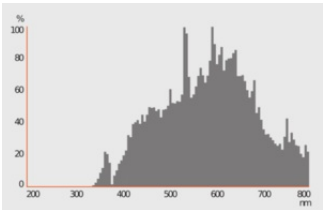
Nominal wattage	70 W
Construction wattage	73.00 W
Nominal voltage	99 V
Ignition voltage	3.6/5.0 kVp ¹⁾
Operating mode	Conventional control gear (CCG) and ignitor, Electronic control gear (ECG)
Nominal current	0.94 A
PFC capacitor at 50 Hz	12 µF

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

Photometrical data

Luminous flux	6750 lm
Luminous efficacy	92 lm/W ¹⁾
Color temperature	4100 K
Color rendering index Ra	94
Light color	941
Rated LLMF at 2,000 h	0.82
Rated LLMF at 4,000 h	0.78
Rated LLMF at 6,000 h	0.76
Rated LLMF at 8,000 h	0.74
Rated LLMF at 12,000 h	0.71
Rated LLMF at 16,000 h	0.70
Rated lamp efficacy (standard co.)	92 lm/W
UV protection	Yes

1) In operation with low frequency square wave electronic ballast, 70...400 Hz. Operation with electromagnetic ballast may be less efficient.



384070_HCI_942_NDL

Dimensions & Weight

Overall length	120.00 mm
Light center length (LCL)	60,0 mm
Diameter	20,0 mm
Product weight	20.00 g

Temperatures & operating conditions

Maximum permitted outer bulb temperature	500 °C
Maximum permitted pinch temperature	330 °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	0.85
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)	RX7s
Mercury content	8.8 mg ¹⁾
Mercury-free	No
Design / version	Clear
System guarantee level	3 (2/5)

¹⁾ Maximum

Capabilities

Dimmable	Yes ¹⁾
Burning position	P45
Enclosed luminaire required	Yes

Hot restart	No
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1) In combination with POWERTRONIC PTo

Certificates & Standards

Energy efficiency class	F
Energy consumption	80.30 kWh/1000h


Country-specific categorizations


ILCOS	MD/UB-70/942-H/SL-RX7s-22/114,2/H
Order reference	HCI-TS 70W/942

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)	RX7s
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	120.00 mm
Height	20,0 mm
Width	20,0 mm
Chromaticity coordinate x	0.370
Chromaticity coordinate y	0.366
Beam angle correspondence	SPHERE_360
EPREL ID	1535166
Model number	AB43966

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	384070_HCI_942_NDL

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4008321688361	Folding box 1	142 mm x 42 mm x 47 mm	29.00 g	0.28 dm ³
4008321688378	Shipping box 12	180 mm x 161 mm x 139 mm	490.00 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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