

PRODUCT DATASHEET

HCI-TS 70 W/830 WDL 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

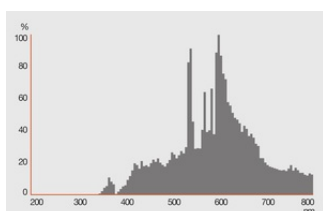
Nominal wattage	70 W
Construction wattage	73.00 W
Nominal voltage	92 V
Ignition voltage	3.6/4.5 kVp ¹⁾
Nominal current	0.95 A
PFC capacitor at 50 Hz	12 µF

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

Photometrical data

Luminous flux	7000 lm
Luminous efficacy	96 lm/W ¹⁾
Color temperature	3100 K
Color rendering index Ra	88
Light color	831
Rated LLMF at 2,000 h	0.84
Rated LLMF at 4,000 h	0.82
Rated LLMF at 6,000 h	0.79
Rated LLMF at 8,000 h	0.76
Rated LLMF at 12,000 h	0.71
Rated LLMF at 16,000 h	0.68
Rated LLMF at 20,000 h	0.63
Rated lamp efficacy (standard co.)	97 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.



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

Lifespan	16000 h
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)	RX7s
Mercury content	5.5 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

1) In combination with POWERTRONIC PTo

Certificates & Standards

Energy efficiency class	F
Energy consumption	80.30 kWh/1000h

Country-specific categorizations

ILCOS	MD/UB-70/830-H/SL-RX7s-22/114,2/H
Order reference	HCI-TS 70W/830

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	0.430
Chromaticity coordinate y	0.399
Beam angle correspondence	SPHERE_360
EPREL ID	1535165
Model number	AB43965

DOWNLOAD DATA

Documents and certificates



User instruction

Photometric and lighting design files



Spectral power distribution

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4008321688309	Folding box 1	142 mm x 42 mm x 42 mm	34.00 g	0.25 dm ³
4008321688316	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

DISCLAIMER

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