

## 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)



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## TECHNICAL DATA

### Electrical data

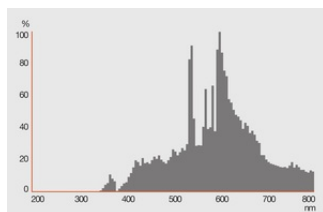
|                        |                                                                            |
|------------------------|----------------------------------------------------------------------------|
| Nominal wattage        | 70 W                                                                       |
| Construction wattage   | 73.00 W                                                                    |
| Nominal voltage        | 92 V                                                                       |
| Ignition voltage       | 3.6/4.5 kVp <sup>1)</sup>                                                  |
| Operating mode         | Conventional control gear (CCG) and ignitor, Electronic control gear (ECG) |
| 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 <sup>1)</sup> |
| 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.) | 96 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.



384067\_HCI\_830\_WDL

### 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 | 0.80                  |
| Rated lamp survival factor at 16,000   | 0.50                  |
| Rated lamp survival factor at 20,000 h | 0.19                  |
| Lifespan B50                           | 15000 h <sup>1)</sup> |
| Operation mode LLMF/LSF                | ECG                   |

<sup>1)</sup> At ECG

### Additional product data

|                             |                      |
|-----------------------------|----------------------|
| Base (standard designation) | RX7s                 |
| Mercury content             | 5.5 mg <sup>1)</sup> |
| Mercury-free                | No                   |
| Design / version            | Clear                |

|                        |         |
|------------------------|---------|
| System guarantee level | 3 (2/5) |
|------------------------|---------|

1) Maximum

### Capabilities

|                             |                   |
|-----------------------------|-------------------|
| Dimmable                    | Yes <sup>1)</sup> |
| Burning position            | P45               |
| Enclosed luminaire required | Yes               |
| Hot restart                 | No                |

1) In combination with POWERTRONIC PTO

### Certificates & Standards

|                         |                 |
|-------------------------|-----------------|
| Energy efficiency class | A+              |
| 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                                                       |                                        | 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               |
|---------------|------------------------------|--------------------------------------|--------------|----------------------|
| 4008321688309 | Folding box<br>1             | 142 mm x 42 mm x 42 mm               | 34.00 g      | 0.25 dm <sup>3</sup> |
| 4008321688316 | Shipping box<br>12           | 180 mm x 161 mm x 139 mm             | 490.00 g     | 4.03 dm <sup>3</sup> |

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](http://www.ledvance.com/system-guarantee)

## DISCLAIMER

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