

# PRODUCT DATASHEET

## HCI-TC 70 W/942 NDL PB

POWERBALL HCI®-TC | 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
- 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
- Light colors: warm white (830 WDL), neutral white (942 NDL)
- Average lifetime: 15,000 h (operation with ECG with 70...400 Hz square-wave current)
- Average lifetime: 12,000 h (with magnetic control gear)
- HCI-TC 20 W, HCI-TC 50 W 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        | 86 V                      |
| Ignition voltage       | 3.6/5.0 kVp <sup>1)</sup> |
| Nominal current        | 1 A                       |
| PFC capacitor at 50 Hz | 12 µF                     |

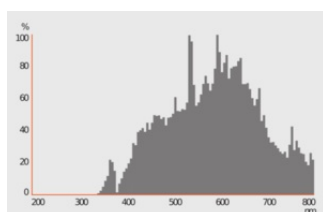
<sup>1)</sup> Minimum / for superimposed ignition with square wave electronic ballast 3.0 kVp are sufficient

### Photometrical data

|                                    |                       |
|------------------------------------|-----------------------|
| Luminous flux                      | 6800 lm <sup>1)</sup> |
| Luminous efficacy                  | 93 lm/W <sup>2)</sup> |
| Color temperature                  | 3730 K                |
| Color rendering index Ra           | 96                    |
| Light color                        | 937                   |
| Rated LLMF at 2,000 h              | 0.90                  |
| Rated LLMF at 4,000 h              | 0.88                  |
| Rated LLMF at 6,000 h              | 0.86                  |
| Rated LLMF at 8,000 h              | 0.84                  |
| Rated LLMF at 12,000 h             | 0.80                  |
| Rated LLMF at 16,000 h             | 0.75                  |
| Rated lamp efficacy (standard co.) | 93 lm/W               |
| UV protection                      | Yes                   |

<sup>1)</sup> In operation with electronic control gear with 70...400 Hz square-wave current. Operation with magnetic ballast can be less efficient

<sup>2)</sup> In operation with low frequency square wave electronic ballast, 70...400 Hz. Operation with electromagnetic ballast may be less efficient.



## Dimensions & Weight

|                           |          |
|---------------------------|----------|
| Overall length            | 81.00 mm |
| Light center length (LCL) | 52,0 mm  |
| Diameter                  | 15,0 mm  |
| Maximum diameter          | 15 mm    |
| Product weight            | 9.00 g   |

## Temperatures & operating conditions

|  |        |
|--|--------|
| Maximum permitted outer bulb temperature | 550 °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    | 0.98                  |
| Rated lamp survival factor at 6,000    | 0.97                  |
| Rated lamp survival factor at 8,000 h  | 0.92                  |
| 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) | G8.5                 |
| Mercury content             | 6.7 mg <sup>1)</sup> |
| Mercury-free                | No                   |
| Design / version            | Clear                |
| System guarantee level      | 3 (2/5)              |

<sup>1)</sup> Maximum

## Capabilities

|                             |                   |
|-----------------------------|-------------------|
| Dimmable                    | Yes <sup>1)</sup> |
| Burning position            | Any               |
| 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           | MT/UB-70/942-H/SL-G8.5-17/85 |
| Order reference | HCI-TC 70W/942               |

## Energy labelling regulation data acc EU 2019/2015

|   |          |
|---|----------|
| Light source cap-type (or other electric interface) | G8.5     |
| Length  | 81.00 mm |
| Height  | 15,0 mm  |
| Width   | 15,0 mm  |

## DOWNLOAD DATA

| DOWNLOAD DATA  |  |
|--|--|
|  | User instruction<br>High-Intensity-Discharge lamps. Operation instructions |
|  | Advertisements<br>Metal halide lamps. Application guide V1.1               |
|  | Advertisements<br>340203_EVG - Lamp Combination (G+GB)                     |

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume               |
|---------------|------------------------------|--------------------------------------|--------------|----------------------|
| 4008321681836 | Folding box<br>1             | 111 mm x 42 mm x 42 mm               | 20.00 g      | 0.20 dm <sup>3</sup> |
| 4008321681843 | Shipping box<br>12           | 180 mm x 127 mm x 140 mm             | 363.00 g     | 3.20 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)

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