

## POWERBALL HCI-T Excellence

Metal halide lamps with ceramic technology for enclosed luminaires



### Areas of application

- Shop interiors, shop windows
- Shopping arcades
- Foyers, reception areas
- Museums, exhibitions
- Exhibition halls and trade fairs
- Factories and workshops
- 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 color: warm white (930 WDL)
- Color rendering index  $R_a$ : 90
- Average lifetime: 20,000 h (operation with ECG with 70...400 Hz square-wave current)
- Average lifetime: 15,000 hours (with magnetic control gear)
- HCI-T 50 W only for operation with ECG with 70...400 Hz square-wave current



# Product family datasheet

## Technical data

Product description	Electrical data					Photometrical data				
	Nominal wattage	Rated wattage	Lamp current	PFC capacitor at 50 Hz	Ignition voltage	Luminous efficacy	Luminous flux	Color rendering index Ra	Light color	Rated LLMF at 2,000 h
HCI-T 35 W/930 WDL PB Excellence	35.00 W	39.00 W	0.52 A	6 µF <sup>2)</sup>	3.6 / 5.0 kVp <sup>3)</sup>	108 lm/W	4200 lm <sup>4)</sup>	90	930	0.92
HCI-T 50 W/930 WDL PB Excellence <sup>1)</sup>	50.00 W	50.00 W	0.56 A		3.6 / 5.0 kVp <sup>3)</sup>	110 lm/W	5500 lm	90	930	0.94
HCI-T 70 W/930 WDL PB Excellence	70.00 W	73.00 W	0.99 A	12 µF <sup>2)</sup>	3.6 / 5.0 kVp <sup>3)</sup>	115 lm/W	8500 lm <sup>4)</sup>	90	930	0.92

Product description	Electrical data					Dimensions & weight			Lifespan			
	Rated LLMF at 4,000 h	Rated LLMF at 6,000 h	Rated LLMF at 8,000 h	Rated LLMF at 12,000 h	UV protection	Diameter	Length	Product weight	Rated lamp survival factor at 2,000 h	Rated lamp survival factor at 4,000 h	Rated lamp survival factor at 6,000 h	Rated lamp survival factor at 8,000 h
HCI-T 35 W/930 WDL PB Excellence	0.91	0.87	0.85	0.80	Yes	20.0 mm	100.0 mm	27.00 g	1.00	0.99	0.98	0.97
HCI-T 50 W/930 WDL PB Excellence <sup>1)</sup>	0.91	0.86	0.84	0.80	Yes	20.0 mm	100.0 mm	27.00 g	0.99	0.99	0.98	0.97
HCI-T 70 W/930 WDL PB Excellence	0.91	0.87	0.85	0.80	Yes	20.0 mm	100.0 mm	28.00 g	0.99	0.99	0.98	0.97

Product description	Electrical data					Additional product data			Capabilities	
	Rated lamp survival factor at 12,000 h	Rated lamp survival factor at 16,000 h	Lifespan B50	Operation mode LLMF/LSF	Rated lamp survival factor at 20,000 h	Base (standard designation)	System guarantee level	Lamp mercury content	Dimmable	Burning position
HCI-T 35 W/930 WDL PB Excellence	0.95	0.80	20000 h <sup>5)</sup>	ECG		G12	3 (2/5)	4.7 mg	No	Any
HCI-T 50 W/930 WDL PB Excellence <sup>1)</sup>	0.95	0.80	20000 h <sup>5)</sup>	ECG	0.50	G12	3 (2/5)	6.9 mg	Yes	Any
HCI-T 70 W/930 WDL PB Excellence	0.95	0.80	20000 h <sup>5)</sup>	ECG	0.50	G12	3 (2/5)	5.7 mg	Yes <sup>6)</sup>	Any

## Product family datasheet

Product description	Enclosed luminaire required	Certificates & standards		Country specific categorizations
		Energy efficiency class	Energy consumption	ILCOS
HCI-T 35 W/930 WDL PB Excellence	Yes	A+	43 kWh/1000h	MT/UB-35/930-H/E/SL-G12-20/90
HCI-T 50 W/930 WDL PB Excellence <sup>1)</sup>	Yes	A+	55 kWh/1000h	MT/UB-50/930-H/E/SL-G12-20/90
HCI-T 70 W/930 WDL PB Excellence	Yes	A+	81 kWh/1000h	MT/UB-70/930-H/E/SL-G12-20/90

<sup>1)</sup> Only for operation with electronic control gear with 70...400 Hz square-wave current

<sup>2)</sup> At rated voltage and  $\cos \varphi \geq 0.9$

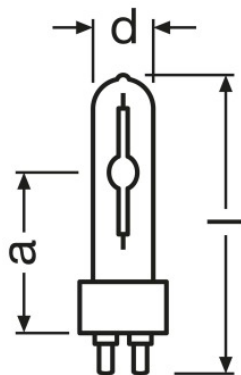
<sup>3)</sup> Minimum; for superimposed ignition with square wave electronic ballast 3.0 kVp are sufficient

<sup>4)</sup> In operation with electronic control gear with 70...400 Hz square-wave current. Operation with magnetic ballast can be less efficient

<sup>5)</sup> At ECG

<sup>6)</sup> In combination with POWERTRONIC PTo

## Product family datasheet



HCI-T 35 W/930 WDL PB Excellence,  
HCI-T 50 W/930 WDL PB Excellence,  
HCI-T 70 W/930 WDL PB Excellence

### Application advice

For more detailed application information and graphics please see product datasheet.

### Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899238640	HCI-T 35 W/930 WDL PB Excellence	Shipping carton box 12	180 mm x 140 mm x 158 mm	3.98 dm <sup>3</sup>	572.00 g
4052899238763	HCI-T 50 W/930 WDL PB Excellence	Shipping carton box 12	180 mm x 140 mm x 158 mm	3.98 dm <sup>3</sup>	575.00 g

## Product family datasheet

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899238725	HCI-T 70 W/930 WDL PB Excellence	Shipping carton box 12	180 mm x 140 mm x 158 mm	3.98 dm <sup>3</sup>	591.00 g

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.

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### Disclaimer

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