

PRODUCT FAMILY DATASHEET

POWERBALL HCI-TT SUPER 4Y

Metal halide lamps with ceramic technology for enclosed luminaires



AREAS OF APPLICATION

- Streets
- Outdoor lighting
- Industrial installations
- Exhibition halls and trade fairs
- Approved only for use in enclosed luminaires
- Outdoor applications only in suitable luminaires

PRODUCT BENEFITS

- Up to 15 % higher lumen maintenance factor compared to HCI-TT standard lamps
- Up to 30 % higher lum. efficacy for lamps ≤ 100 W (comp. to NAV-T Super 4Y/6Y)
- Good color rendering
- Operation in existing HPS installations as ignition voltage of IEC 60662 is met
- Energy savings of up to 70 % when replacing mercury vapor lamps (HQL)
- Optimum energy efficiency on POWERTRONIC PTo 3DIM ECGs
- UV values significantly below the maximum permitted thresholds to IEC 61167 thanks to UV filter

PRODUCT FEATURES

- White light due to POWERBALL ceramic technology
- Light color: warm white (830 WDL)
- Extended service lifetime: 4 years (at approx. 11 h/day)
- Very high luminous efficacy: up to 125 lm/W
- Lamp survival factor: 95 % after 16,000 h burning time



- Average lifetime: up to 24,000 h
- ErP compliant according to EU Regulation 245/2009
- Dimmable on conventional control gears and electronic control gears

TECHNICAL DATA

Product description	Electrical data					Photometrical data						
	Rated wattage	Lamp current	PFC capacitor at 50 Hz	Nominal wattage	Ignition voltage	Rated luminous flux	Color temperature	Light color	Rated LLMF at 2,000 h	Rated LLMF at 4,000 h	Rated LLMF at 6,000 h	Rated LLMF at 8,000 h
HCI-TT 35 W/830 SUPER 4Y	39.70 W	0.5 A	6 µF ¹⁾	35.00 W	1.8 / 5.0 kVp ²⁾	4200 lm	3200 K	832	0.92	0.90	0.89	0.88
HCI-TT 50 W/830 SUPER 4Y	56.00 W	0.73 A	10 µF ¹⁾	50.00 W	1.8 / 5.0 kVp ²⁾	6000 lm	3100 K	831	0.92	0.90	0.89	0.88
HCI-TT 70 W/830 SUPER 4Y	77.00 W	1.0 A	12 µF ¹⁾	70.00 W	1.8 / 5.0 kVp ²⁾	8000 lm	3200 K	832	0.92	0.90	0.89	0.88
HCI-TT 100 W/830 SUPER 4Y	100.00 W	1.2 A	12 µF ¹⁾	100.00 W	3.3 / 5.0 kVp ²⁾	10500 lm	3000 K	830	0.94	0.92	0.90	0.89
HCI-TT 150 W/830 SUPER 4Y	148.00 W	1.8 A	20 µF ¹⁾	150.00 W	3.3 / 5.0 kVp	17300 lm	3000 K	830	0.93	0.90	0.88	0.85
HCI-TT 250 W/830 SUPER 4Y	255.00 W	2.9 A	32 µF ¹⁾	250.00 W	3.3 / 5.0 kVp	32000 lm	3000 K	830	0.93	0.90	0.88	0.85

Product description							Dimensions & weight				Temperatures & operating conditions	
	Rated LLMF at 12,000 h	Rated LLMF at 16,000 h	Rated LLMF at 20,000 h	UV protection	Luminous flux	Color rendering index Ra	Diameter	Length	Light center length (LCL)	Product weight	Max. permitted outer bulb temperature	Max. permitted edge temperature
HCI-TT 35 W/830 SUPER 4Y	0.85	0.83	0.75	Yes	4200 lm	80	35.0 mm	155.0 mm	102.0 mm	50.00 g	350 °C	210 °C
HCI-TT 50 W/830 SUPER 4Y	0.85	0.86	0.75	Yes	6000 lm	80	35.0 mm	156.0 mm	102.0 mm	50.00 g	350 °C	210 °C
HCI-TT 70 W/830 SUPER 4Y	0.85	0.83	0.75	Yes	8000 lm	80	35.0 mm	156.0 mm	102.0 mm	50.00 g	350 °C	210 °C
HCI-TT 100 W/830 SUPER 4Y	0.85	0.84	0.75	Yes	10500 lm	≥80	47.0 mm	210.0 mm	132.0 mm	135.00 g	450 °C	210 °C
HCI-TT 150 W/830 SUPER 4Y	0.84	0.83	0.75	Yes	17300 lm	≥80	47.0 mm	210.0 mm	132.0 mm	130.00 g	450 °C	210 °C
HCI-TT 250 W/830 SUPER 4Y	0.84	0.83	0.75	Yes	32000 lm	≥80	47.0 mm	226.0 mm	158.0 mm	140.00 g	500 °C	250 °C

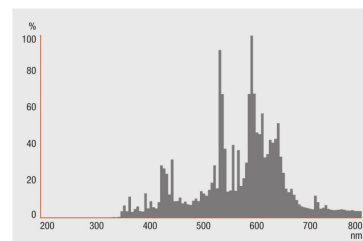
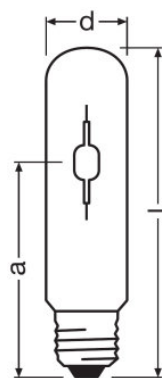
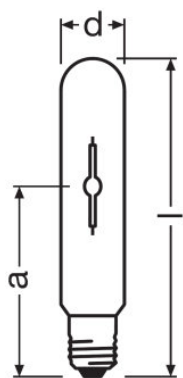
Product description	Lifespan								Additional product data				
	Rated lamp survival factor at 2,000 h	Rated lamp survival factor at 4,000 h	Rated lamp survival factor at 6,000 h	Rated lamp survival factor at 8,000 h	Rated lamp survival factor at 12,000 h	Rated lamp survival factor at 16,000 h	Rated lamp survival factor at 20,000 h	Lifespan B50	Lifespan B10	Lifespan B5	Operation mode LLMF/LSF	Base (standard designation)	Design / version
HCI-TT 35 W/830 SUPER 4Y	0.99	0.99	0.98	0.97	0.97	0.95	0.78	24000 h	18000 h	16000 h	50 Hz	E27	Clear
HCI-TT 50 W/830 SUPER 4Y	0.99	0.99	0.98	0.97	0.97	0.95	0.78	24000 h	18000 h	16000 h	50 Hz	E27	Clear
HCI-TT 70 W/830 SUPER 4Y	0.99	0.99	0.98	0.97	0.97	0.95	0.78	24000 h	18000 h	16000 h	50 Hz	E27	Clear
HCI-TT 100 W/830 SUPER 4Y	0.99	0.99	0.98	0.97	0.97	0.95	0.78	24000 h	18000 h	16000 h	50 Hz	E40	Clear
HCI-TT 150 W/830 SUPER 4Y	0.99	0.99	0.98	0.97	0.97	0.95	0.78	24000 h	18000 h	16000 h	50 Hz	E40	Clear
HCI-TT 250 W/830 SUPER 4Y	0.99	0.99	0.98	0.97	0.97	0.95	0.78	24000 h	18000 h	16000 h	50 Hz	E40	Clear

Product description	System guarantee level	Mercury content	Capabilities			Certificates & standards	Country-specific categorizations
			Dimmable	Burning position	Enclosed luminaire required	Energy consumption	ILCOS
HCI-TT 35 W/830 SUPER 4Y	3 (2/5)	6.5 mg	Yes ³⁾	Any	Yes	44 kWh/1000h	MT/UB-35/830-H/E/SL-E27-32/155
HCI-TT 50 W/830 SUPER 4Y	3 (2/5)	6.8 mg	Yes ³⁾	Any	Yes	62 kWh/1000h	MT/UB-50/830-H/E/SL-E27-32/155
HCI-TT 70 W/830 SUPER 4Y	3 (2/5)	8.0 mg	Yes ³⁾	Any	Yes	85 kWh/1000h	MT/UB-70/830-H/E/SL-E27-32/155
HCI-TT 100 W/830 SUPER 4Y	3 (2/5)	13.2 mg	Yes ³⁾	Any	Yes	110 kWh/1000h	MT/UB-100/830-H/E/SL-E40-47/210
HCI-TT 150 W/830 SUPER 4Y	3 (2/5)	19.3 mg	Yes ³⁾	Any	Yes	163 kWh/1000h	MT/UB-150/830-H/E/SL-E40-47/210
HCI-TT 250 W/830 SUPER 4Y	3 (2/5)	27.3 mg	Yes ³⁾	Any	Yes	281 kWh/1000h	MT/UB-250/830-H/E/SL-E40-47/226

¹⁾ At rated voltage and $\cos \varphi \geq 0.9$

²⁾ Minimum

³⁾ In combination with POWERTRONIC PTO



HCI-TT 35 W/830 SUPER 4Y, HCI-TT 50 W/830 SUPER 4Y, HCI-TT 70 W/830 SUPER 4Y

HCI-TT 100 W/830 SUPER 4Y, HCI-TT 150 W/830 SUPER 4Y, HCI-TT 250 W/830 SUPER 4Y

HCI-TT 35 W/830 SUPER 4Y, HCI-TT 50 W/830 SUPER 4Y, HCI-TT 70 W/830 SUPER 4Y, HCI-TT 100 W/830 SUPER 4Y, HCI-TT 150 W/830 SUPER 4Y, HCI-TT 250 W/830 SUPER 4Y

SYSTEM GUARANTEE

When operated with OSRAM POWERTRONIC control gear, an extended system guarantee is granted for these lamps

SAFETY ADVICE

Where possible, use a timer igniter (switch-off time of at least 15 minutes). Otherwise, switch off the luminaire for at least 15 minutes if a brief interruption has occurred to the mains voltage supply.

APPLICATION ADVICE

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

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4052899378384	Shipping carton box 12	168 mm x 130 mm x 212 mm	944.00 g	4.63 dm ³
4052899378360	Shipping carton box 12	168 mm x 130 mm x 212 mm	930.00 g	4.63 dm ³
4052899378346	Shipping carton box 12	168 mm x 130 mm x 212 mm	953.00 g	4.63 dm ³
4052899108103	Shipping carton box 12	266 mm x 216 mm x 277 mm	2022.00 g	15.92 dm ³
4052899925045	Shipping carton box 12	216 mm x 166 mm x 272 mm	2071.00 g	9.75 dm ³
4052899081833	Shipping carton box 12	266 mm x 216 mm x 277 mm	2358.00 g	15.92 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.