PRODUCT DATASHEET
HCI-TT 100 W/830 SUPER 4Y

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)

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– 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
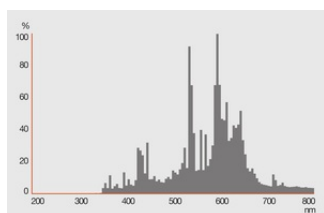– Dimmable on conventional control gears and electronic control gears

TECHNICAL DATA

Electrical data

Nominal wattage	100 W
Construction wattage	100.00 W
Nominal voltage	100 V
Ignition voltage	3.3/5.0 kVp [1]
Nominal current	1.2 A
PFC capacitor at 50 Hz	12 µF

[1] Minimum / Maximum

Photometrical data

Luminous flux	10500 lm
Luminous efficacy	120 lm/W
Color temperature	3000 K
Color rendering index Ra	≥80
Light color	830
Rated LLMF at 2,000 h	0.94
Rated LLMF at 4,000 h	0.92
Rated LLMF at 6,000 h	0.90
Rated LLMF at 8,000 h	0.89
Rated LLMF at 12,000 h	0.85
Rated LLMF at 16,000 h	0.84
Rated LLMF at 20,000 h	0.75
Rated lamp efficacy (standard co.)	120 lm/W
UV protection	Yes

Dimensions & Weight

Overall length	210.00 mm
Light center length (LCL)	132,0 mm
Diameter	47 mm
Maximum diameter	47 mm
Product weight	135.00 g

Temperatures & operating conditions

Maximum permitted outer bulb temperature	450 °C
Maximum permitted base edge temperature	210 °C

Lifespan

Lifespan	24000 h
Rated lamp survival factor at 2,000 h	0.99
Rated lamp survival factor at 4,000	0.99
Rated lamp survival factor at 6,000	0.98
Rated lamp survival factor at 8,000 h	0.97
Rated lamp survival factor at 12,000 h	0.97
Rated lamp survival factor at 16,000	0.95
Rated lamp survival factor at 20,000 h	0.78
Lifespan B10	18000 h
Lifespan B5	16000 h
Lifespan B50	24000 h
Operation mode LLMF/LSF	50 Hz

Additional product data

Base (standard designation)	E40
Mercury content	13.2 mg
Mercury-free	No
Design / version	Clear
System guarantee level	3 (2/5)

Capabilities

Dimmable	Yes [1]
Burning position	Any
Enclosed luminaire required	Yes

[1] In combination with POWERTRONIC PTo

Certificates & Standards

Energy efficiency class	F
Energy consumption	110.00 kWh/1000h

Country-specific categorizations

ILCOS	MT/UB-100/830-H/E/SL-E40-47/210
Order reference	HCI-TT 100W/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)	E40
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	210.00 mm
Height	47 mm
Width	47 mm
Chromaticity coordinate x	0.432
Chromaticity coordinate y	0.409
Beam angle correspondence	SPHERE_360
EPREL ID	1535127
Model number	AC20430

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.

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LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4052899108097	Sleeve 1	52 mm x 52 mm x 260 mm	153.00 g	0.70 dm³
4052899108103	Shipping box 12	266 mm x 216 mm x 277 mm	2022.00 g	15.92 dm³

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

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