PRODUCT DATASHEET

SMART+ MATTER Filament Multicolor Classic E40 4.8W E27

SMART+ MATTER Filament Classic shapes multicolor | SMART+ MATTER CLASSIC FILAMENT LAMPS WITH WIFI TECHNOLOGY



Areas of application

- General illumination through smart home technology
- Professional applications (hotels, bars, boutiques etc.) utilizing dynamic and robust ambient lighting effects
- When users want to mix and match smart home products from different manufacturers
- Outdoor use in suitable outdoor luminaires only

Product benefits

- Wireless control via app or voice control
- Seamless integration with Matter-compatible systems
- Simplified set up process due to the standard user-friendly installation steps
- Enhanced security by implementing strong encryption and authentication protocols
- Lower energy consumption than incandescent or halogen lamps

Product features

- Controllable via SMART+ App (with minimum Android 8.0 or iOS 14.0) or any other Matter-compatible platforms
- Adjustable light color via Tunable White: Warm White to Cool White (2,700 K…6,500 K)
- RGB color control, approx. 16 million color options adjustable
- Dimmable
- Network protocol: Matter over WiFi
- Lifetime up to 15,000 h
- Compatible with Alexa, Google Home, Apple Home and other Matter-compatible platforms





TECHNICAL DATA

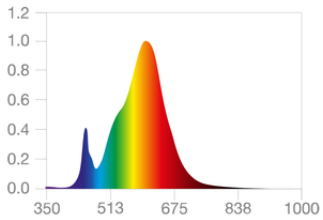
Electrical data

Nominal wattage	4.8 W
Construction wattage	4.80 W
Nominal voltage	220…240 V
Nominal current	50 mA
Operating frequency	50…60 Hz
Mains frequency	50…60 Hz
Power factor λ	0.40
Claimed equiv. conventional lamp power	40 W
Operating mode	AC Mains

Photometrical data

Light color (designation)	RGBW
Lumen main.fact.at end of nom.life time	0.93
Standard deviation of color matching	≤6 sdcm
Nominal luminous flux	470 lm
Luminous flux	470 lm
Luminous efficacy	97 lm/W
Adjustable color temperature	2700…6500 K
Color temperature	2700…6500 K
Color rendering index Ra	≥80
Flickering metric (Pst LM)	≤ 1
Stroboscope effect metric (SVM)	≤ 0.4

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EPREL Data Spectral Diagram LEDr AC42286 AC42287 AC42288 RGBTW

Light technical data

Beam angle	320 °
Starting time	< 0.5 s
Warm-up time (60 %)	‹ 0.50 s

Dimensions & Weight



Product weight	48.00 g
Diameter	64.00 mm
Maximum diameter	64 mm
Length	140.00 mm
Width	64.00 mm
Height	64.00 mm
Outer bulb [PICOS]	ST64

Lifespan

Number of switching cycles	100000
Lifespan	15000 h [1)]
Lumen maintenance at end of service lifetime	0.93

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1) L70/B50

Colors & materials

Product color	Clear
Body material	Glass

Temperatures & operating conditions

Ambient temperature range	-20…+40 °C

Additional product data

Mercury-free	Yes
Product remark	All technical parameters apply to the entire lamp / Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value
Base (standard designation)	E27

Capabilities

Dimmable	Yes 1)
Network protocol	Matter over WiFi
Compatible smart home technology	Amazon Alexa / Google Home / Apple Home / Samsung SmartThings / Homey / Home Assistant

1) Via App

Certificates & Standards

Energy efficiency class	F 1)
Energy consumption	5.00 kWh/1000h
Standards	CE / UKCA
Type of protection	IP20

1) This product is exempt from the EU Energy Labelling Regulation (EU Directive 2019/2015)

Energy labelling regulation data acc EU 2019/2015

Lighting technology used	LED
Non-directional or directional	NDLS
Mains or non-mains	MLS
Light source cap-type (or other electric interface)	E27
Connected light source (CLS)	Yes
Color-tuneable light source	Yes

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Envelope	No
High luminance light source	No
Anti-glare shield	No
Correlated colour temperature type	RANGE
Standby power	0 W
Networked standby power for CLS	0.50 W
Claim of equivalent power	Yes
Chromaticity coordinate x	0.463
Chromaticity coordinate y	0.420
R9 Colour rendering index	1
Beam angle correspondence	SPHERE_360
Survival factor	0.9
Displacement factor	0
LED light source replaces a fluorescent light source	No
EPREL ID	1694303,2244379
Model number	AC52862,AC52862,AC75701

Safety advice

- Do not touch the lamp if broken.
- Must not be used if outer bulb is defective.

DOWNLOAD DATA

	Documents and certificates	Document name
PDF	User instruction / safety instructions	
PDF	Declarations of conformity	CE Declaration Smart Matter Filament
PDF	Declarations of conformity UKCA	UKCA Declaration Smart Matter Filament
PDF	EU Data Act	SMART MATTER Lamps Luminaires Plugs

	Photometric and lighting design files	Document name
	Spectral power distribution	EPREL Data Spectral Diagram LEDr AC42286 AC42287 AC42288 RGBTW

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LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854195006	Folding box 1	66 mm x 78 mm x 144 mm	74.00 g	0.74 dm^3
4099854195013	Shipping box 4	164 mm x 142 mm x 158 mm	388.00 g	3.68 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.

DISCLAIMER

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

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