



Light is beautiful

## The DURIS<sup>®</sup> filament portfolio

Vintage design with modern LED technology

Light is OSRAM

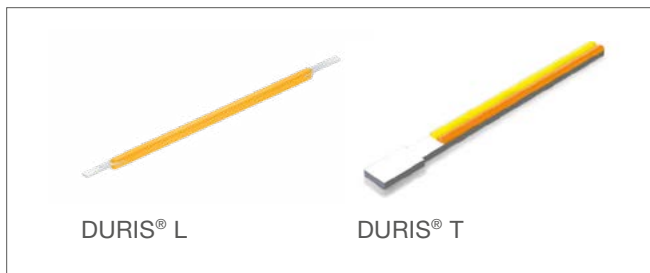
**OSRAM**  
Opto Semiconductors

# DURIS® filaments - traditional light design with latest technology

DURIS® L and DURIS® T are the filament versions in the OSRAM Opto Semiconductors' component portfolio for all indoor retrofits with a beam angle of 360°. Our innovative linear and stick LEDs enable luminaire manufacturers and lighting designers to combine the advantages of modern LED technology and the aesthetics of traditional light bulbs.

## Advantages

- Realization of traditional solutions with innovative LED technology
- Well proven OSRAM Opto Semiconductors' component quality and reliability
- Established pre-delivery controls and measurements to ensure consistent product performance
- Homogenous light quality due to tight binning
- Simple integration of LED in classic lamp production
- Customizable filament designs - various lumen packages and adjustable package size



## DURIS® L

- Package size of 38 mm × 1.8 mm and 38 mm × 2.2 mm (l × Ø)
- Available with various lumen packages of 80 - 250 lm
- Warm white light from 2,200 K - 4,000 K
- Good heat dissipation due to blue chips and yellow ceramic converter
- Good color rendering with CRI min. 80 and 82
- 3-step MacAdams binned at 85 °C

## DURIS® T

- Good color rendering to CRI min. 90 according to customer's requirements

## Applications

- All types of classic omnidirectional "light bulb" luminaires, e.g. chandeliers and open light fixtures
- For a wide variety of hospitality and home applications, e.g. hotel rooms, foyers, restaurants, boutiques and workspaces
- Suitable lamp types: A17-A19, A5-A60, B12, ST64, G25-G40

## DURIS® L 38

Typ	Typ. R <sub>th,JA el</sub> (K/W) <sup>1</sup>	Available CCT range (K)	CRI min.	Current (mA)		Voltage (V)		Power class (W)		Brightness/ flux (lm)	Efficacy (lm/W)
				typ.	max.	typ.	max.	typ.	max.		
GW T3LMF1.EM	26	2,200–4,000	80	10	15	60	64	0.60	0.96	92	153
GW T3LPF1.EM	26	2,200–2,700	80	10	15	67	70	0.67	1.05	107	159
GW T3LRF1.EM	26	2,200–4,000	80	10	15	86	90	0.86	1.35	126	146
GW T3LSF1.EM	26	2,200–4,000	80	10	15	92	96	0.92	1.44	142	154
GW T3LSF2.EM	18	2,200–2,700	82	30	40	27	30	0.81	1.20	142	175
GW T3LSF3.EM	18	2,200–2,700	82	15	20	54	57	0.81	1.14	150	185
GW T3LTF1.EM	18	2,200–2,700	82	15	20	67	70	1.01	1.40	185	183
GW T3LWF1.EM	15	2,200–2,700	82	30	40	50	53	1.50	2.12	250	167

<sup>1</sup> Helium condition, 4 filament in A60 bulb

DURIS® filament on the internet: [www.osram.com/duris-l](http://www.osram.com/duris-l)

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