

**OSRAM** LED  
CREATING TOMORROW



## Light with LED meets every need

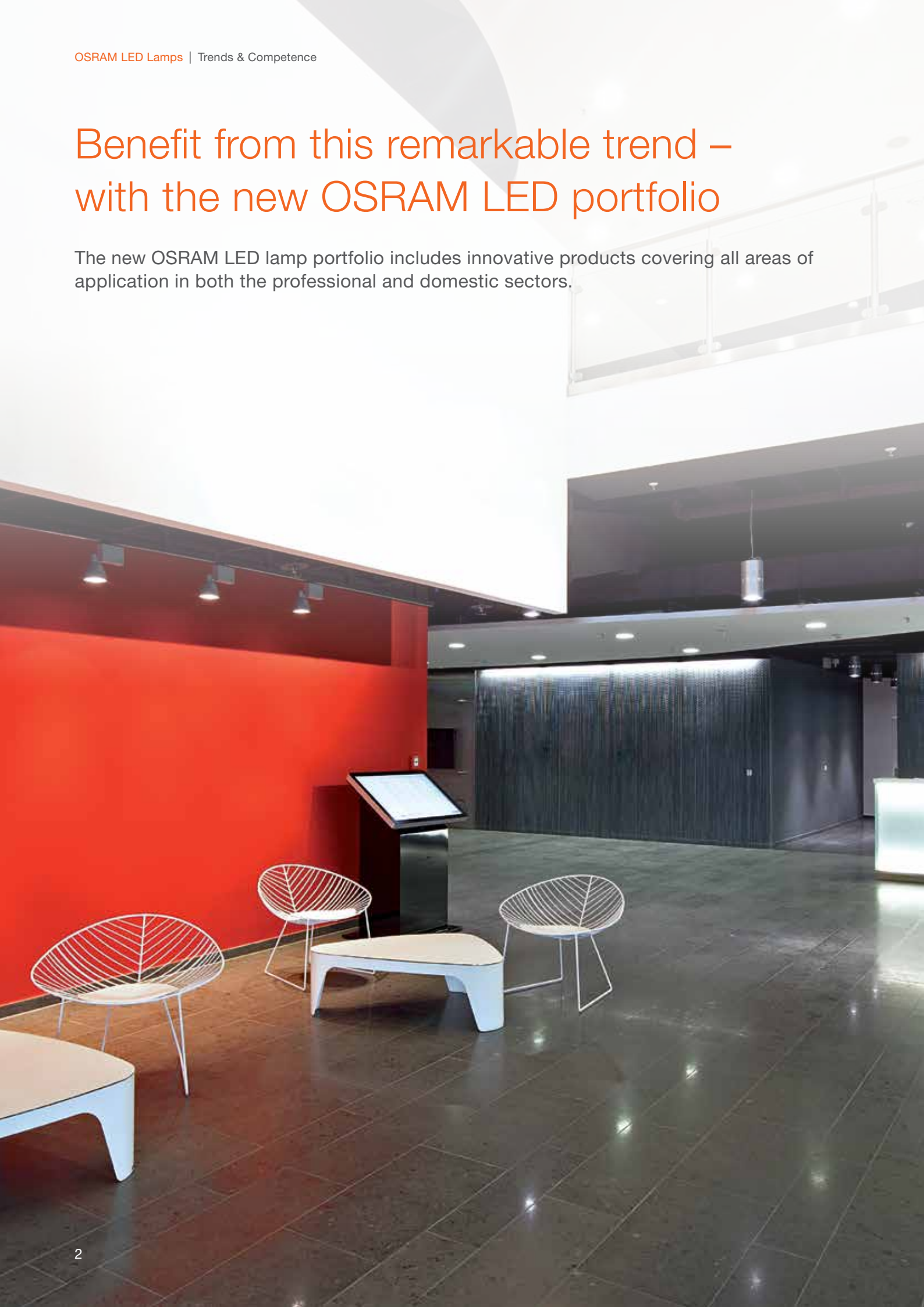
The wide range of new OSRAM LED lamps

Light is OSRAM

**OSRAM** 

# Benefit from this remarkable trend – with the new OSRAM LED portfolio

The new OSRAM LED lamp portfolio includes innovative products covering all areas of application in both the professional and domestic sectors.











# OSRAM

## LED lamps

### at a glance

	Base	Replacement for	Description		Page
Reflector	GU10	35W	PAR16 35 36° advanced, 3.5W		6
		50W	PAR16 50 24°/36° advanced, 5.5W		6
	GU5.3	20W	MR16 20 36° 3.5W		7
		35W/50W	MR16 35/50 36°/ 60° advanced, 6W/7.8W		7
		42W	PRO MR16 42 36° advanced, 8W		7
	G53	50W	PRO LEDspot 111 24°/9°/40° advanced, 12W/8.5W/12.5W		8
	GU4	20W	MR11 30° 3.7W		8
	E27	100W	PAR30 30° advanced, 13W		9
	E27	120W	PAR38 30° advanced, 17W		9

	Base	Replacement for	Description		Page
CLASSIC A	E27/ B22d	60W	CL A60 advanced frosted 10W		10
CLASSIC A	E27/ B22d	25W/ 40W/ 60W/ 70W	CL A25/40/60/70 frosted, 4W/6W/9W/10W		10
CLASSIC B	E14	25W	CL B25 Clear/ frosted 4W		11
CLASSIC P	E14/ E27	25W	CL P25 frosted/clear sparkling, 4W		11
	B22d	25W	CL P25 frosted, 4W		11
SubstiTUBE T8 LED TUBE	G13	18W 600mm	ST8-HB2, 160°, 9W		13
	G13	36W 1200mm	ST8-HB4, 160°, 18W		13
	G13	58W 1500mm	ST8-HB5, 160°, 22W		13

# Our LED competence for success in your lighting business

LED lamps from OSRAM are not only modern and stylish, they offer many benefits in terms of technology and sustainability thanks to their outstanding quality, including extremely long life, high quality of light and excellent economy.

## OSRAM LED lamps are right for your business

OSRAM invests primarily in two areas, namely in research and development, and also in permanent quality assurance. This combination of innovation and application focus results in significant added value – and at an outstanding price/performance ratio. In deciding to purchase OSRAM LED lamps your customers are therefore getting products which:

- meet the special requirements of their particular applications
- are state of the art
- comply with the highest quality standards

## OSRAM LED lamps can be used almost anywhere

Thanks to OSRAM's broad product portfolio, there are LED lamps now available to provide ideal lighting in many different applications – for new installations and for replacing classic incandescent lamps, halogen lamps and T8 fluorescent tubes<sup>1</sup>.

## The most important factors for your success:

### Outstanding quality

- Up to 1,000,000 switching cycles
- White light with good colour rendering
- Warm white light colour similar to that from an ordinary light bulb
- Excellent resistance to shock and vibrations
- Available in many familiar shapes and with standard bases for simple replacement
- Instant 100 % light

### Excellent sustainability

- Up to 90 % lower CO<sub>2</sub> emissions compared with conventional incandescent and halogen lamps
- Outstanding eco-balance thanks to low energy consumption during manufacture
- Low energy consumption during operation
- Mercury-free
- Less waste and low consumption of resources thanks to extremely long life

### High efficiency

- Energy savings of up to 90 % compared with a conventional incandescent or halogen lamp with a similar light output
- Lamp life up to 45,000 hours
- Straightforward replacement so no need to change the luminaire or the system
- Reduced air-conditioning costs thanks to low thermal output

<sup>1</sup> Because of the way that SubstiTUBE® typically distributes its light the light characteristics of the luminaire may be different. After changing tubes, check whether the lighting still complies with the standards for workplace illumination, for example in an office.







### Quick payback

Thanks to incredibly low energy consumption and extremely long life, LED technology will pay for itself in only a short time both in the home and especially in commercial premises. The economics of OSRAM LED lamps is a powerful sales argument – see for yourself!

### Special OSRAM guarantee

Our engineering know-how, our insistence on using only top-quality components and our strict quality assurance procedures have all paid off. OSRAM therefore offers a four year guarantee on LED SUPERSTAR advanced lamps and a three year guarantee on LED STAR lamps, provided they are operated in accordance with OSRAM specifications. For the terms and conditions of the guarantee go to [www.osram.com/guarantee](http://www.osram.com/guarantee)



**3** Year  
OSRAM  
Guarantee

[www.osram.com/guarantee](http://www.osram.com/guarantee)

**4** Year  
OSRAM  
Guarantee

[www.osram.com/guarantee](http://www.osram.com/guarantee)

## OSRAM LED SUPERSTAR PAR16 advanced



Product reference



Product number (EAN)



## GU10 – 220–240 V – 24°/36° – Box

PAR16 35 36° advanced	1	4052899153127	3.5	230	675	3000	80	✓	58	50	25,000
PAR16 35 36° advanced	1	4052899153141	3.5	230	675	6500	80	✓	58	50	25,000
PAR16 50 36° advanced	1	4052899153226	5.5	350	1000	2700	80	✓	58	50	25,000
PAR16 50 36° advanced	1	4052899153240	5.5	350	1000	3000	80	✓	58	50	25,000
PAR16 50 36° advanced	1	4052899153264	5.5	350	1000	6500	80	✓	58	50	25,000
PAR16 50 24° advanced	1	4052899153165	5.5	350	1800	2700	80	✓	58	50	25,000
PAR16 50 24° advanced	1	4052899153189	5.5	350	1800	3000	80	✓	58	50	25,000
PAR16 50 24° advanced	1	4052899153202	5.5	350	1800	6500	80	✓	58	50	25,000

## OSRAM LED SUPERSTAR PAR16 advanced

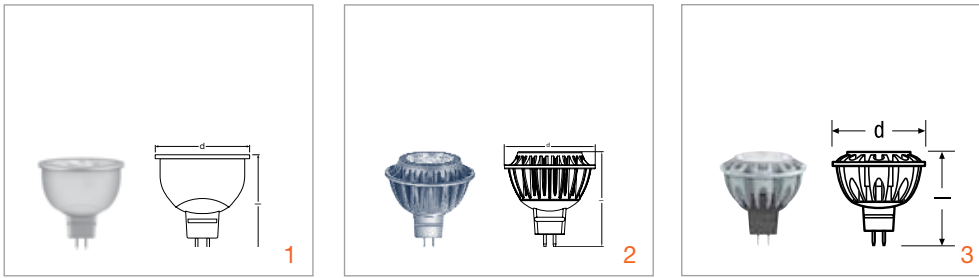
PAR16 line-voltage reflector lamps with GU10 retrofit base

- Average life of 25,000 hours
- High resistance to switching transients (up to 100,000 switching cycles)
- Good colour rendering
- High luminous efficacy
- Precise and consistent colour temperature
- Dimmable<sup>2</sup>
- Available in three light colours: 2700, 3000 and 6500 K
- Replacement options:
  - 35 W halogen lamp – PAR16 35 advanced
  - 50 W halogen lamp – PAR16 50 advanced

<sup>1</sup> All the technical parameters apply to the entire lamp. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

<sup>2</sup> LED lamps can be operated on a wide range of standard dimmers; for details and results of compatibility tests go to [www.osram.com/dim](http://www.osram.com/dim) and the links on that page to additional technical product information sheets.

## OSRAM LED STAR MR16 - LED SUPERSTAR MR16 advanced - PARATHOM® PRO MR16 advanced



Product reference



Product number (EAN)



## LED STAR MR16 20/35 - GU5.3 - 12V - 36° - Box

MR16 20 36°	1	4052899155459	3.5	220	720	2700	80	-	50	51	15,000
MR16 20 36°	1	4052899155473	3.5	220	720	6500	80	-	50	51	15,000
MR16 35 36°	1	4052899154285	5.5	350	1400	2700	80	-	50	51	15,000
MR16 35 36°	1	4052899154322	5.5	350	1400	6500	80	-	50	51	15,000

## LED SUPERSTAR MR16 35/50 advanced - GU5.3 - 12V - 36° - Box

MR16 35 36° advanced	1	4052899154124	6	350	1140	2700	80	✓	50	51	25,000
MR16 35 36° advanced	1	4052899154186	6	350	1140	3000	80	✓	50	51	25,000
MR16 35 36° advanced	1	4052899154209	6	350	1140	6500	80	✓	50	51	25,000
MR16 50 36° advanced	2	4052899919983	7.8	450	850	2700	80	✓	52	50	25,000
MR16 50 36° advanced	2	4052899919990	7.8	450	850	3000	80	✓	52	50	25,000
MR16 50 36° advanced	2	4052899920002	7.8	470	900	6500	80	✓	52	50	25,000
MR16 50 60° advanced	2	4052899125636	7.8	450	400	2700	80	✓	52	50	25,000
MR16 50 60° advanced	2	4052899125650	7.8	450	400	3000	80	✓	52	50	25,000
MR16 50 60° advanced	2	4052899125674	7.8	470	420	6500	80	✓	52	50	25,000

## PARATHOM® PRO MR16 advanced - GU5.3 - 12V - 36° - Box

PRO MR16 42 36° advanced	3	4052899014312	8	470	1200	2700	80	✓	50	50	30,000
PRO MR16 42 36° advanced	3	4052899014350	8	470	1200	3000	80	✓	50	50	30,000
PRO MR16 42 36° advanced	3	4052899014381	8	470	1200	4000	80	✓	50	50	30,000

## OSRAM LED STAR/ SUPERSTAR MR16 advanced

MR16 low-voltage reflector lamps with GU5.3 retrofit base

- Average life of up to 25,000 hours
- Compatible with transformers available on the market<sup>3</sup>
- High resistance to switching transients (up to 100,000 switching cycles)
- Good colour rendering
- Precise and consistent colour temperature
- Dimmable<sup>2</sup>
- Available in light colours 2700, 3000, 6500 K
- Replacement options:
  - 20 W halogen lamp - MR16 20
  - 35 W halogen lamp - MR16 35 advanced
  - 50 W halogen lamp - MR16 50 advanced

## OSRAM PARATHOM® PRO MR16 advanced

PRO MR16 advanced low-voltage reflector lamps with GU5.3 retrofit base

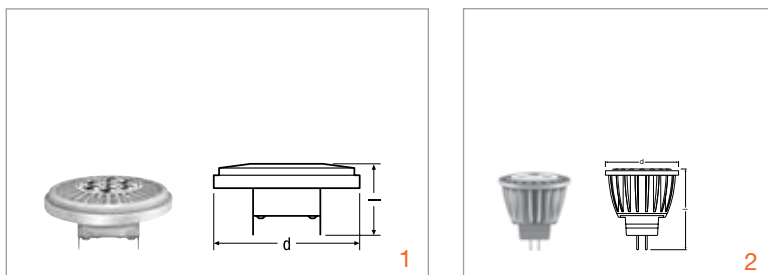
- Average life of 30,000 hours
- Compatible with a large number of transformers available on the market<sup>3</sup>
- Extremely high resistance to switching transients (up to 1,000,000 switching cycles)
- Good colour rendering
- Very good binning (SDCM ≤ 4)
- Dimmable<sup>2</sup>
- Available in light colours 2700, 3000 and 4000 K
- Replacement options:
  - 50 W halogen lamp - PRO MR16 50 advanced

<sup>1</sup> All the technical parameters apply to the entire lamp. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

<sup>2</sup> LED lamps can be operated on a wide range of standard dimmers; for details and results of compatibility tests go to [www.osram.com/dim](http://www.osram.com/dim) and the links on that page to additional technical product information sheets.

<sup>3</sup> For details go to [www.osram.com/low-voltage-ledlamps](http://www.osram.com/low-voltage-ledlamps)

## OSRAM PARATHOM® PRO LEDspot 111 advanced - OSRAM LED STAR MR11



Product reference



Product number (EAN)

W<sup>1</sup>lm<sup>1</sup>

cd

K

Ra


  
h [mm]


  
d [mm]


  
t [h]

## PARATHOM® PRO LEDspot 111 advanced - G53 – 12V – Box

PRO LEDspot 111 50 advanced 9° G2	1	4052899907690	8.5	450	6000	2700	90	✓	58.5	111	45,000
PRO LEDspot 111 50 advanced 24° G2	1	4052899907720	8.5	450	3000	2700	90	✓	58.5	111	45,000
PRO LEDspot 111 50 advanced 24° G2	1	4052899907737	8.5	450	3000	3000	90	✓	58.5	111	45,000
PRO LEDspot 111 50 advanced 24° G2	1	4052899907744	8.5	500	3300	4000	90	✓	58.5	111	45,000
PRO LEDspot 111 50 advanced 40° G2	1	4052899907751	8.5	450	1200	2700	90	✓	58.5	111	45,000
PRO LEDspot 111 50 advanced 40° G2	1	4052899907768	8.5	450	1200	3000	90	✓	58.5	111	45,000
PRO LEDspot 111 75 advanced 9° G2	1	4052899907782	12.5	740	10000	2700	85	✓	58.5	111	45,000
PRO LEDspot 111 75 advanced 24° G2	1	4052899907812	12.5	740	5000	2700	85	✓	58.5	111	45,000
PRO LEDspot 111 75 advanced 24° G2	1	4052899907829	12.5	740	5000	3000	85	✓	58.5	111	45,000
PRO LEDspot 111 75 advanced 24° G2	1	4052899907836	12.5	820	5500	4000	85	✓	58.5	111	45,000
PRO LEDspot 111 75 advanced 40° G2	1	4052899907843	12.5	740	2000	2700	85	✓	58.5	111	45,000
PRO LEDspot 111 75 advanced 40° G2	1	4052899907850	12.5	740	2000	3000	85	✓	58.5	111	45,000

## LED STAR MR11 GU4 – 12V – 30° – Box

MR11 20 30°	2	4052899919235	3.7	200	550	2700	80	–	39	34.7	15,000
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## OSRAM PARATHOM® PRO LEDspot 111 advanced

PRO111 advanced low-voltage LED reflector lamps with G53 retrofit base

- Average life of 45,000 hours
- Excellent compatibility with transformers available on the market<sup>3</sup>
- Good colour rendering
- Optimum design for glare-free light
- Dimmable<sup>2</sup>
- Replacement options:
  - 50W AR111 halogen lamp – PRO LEDspot 111 50 advanced
  - 75W AR111 halogen lamp – PRO LEDspot 111 75 advanced

## OSRAM LED STAR MR11

MR11 low-voltage reflector lamps with GU4 retrofit base

- Very good price/performance ratio
- Average life of 15,000 hours
- Compatible with a large number of transformers available on the market<sup>3</sup>
- Ideal replacement in existing low-voltage halogen reflector luminaires
- Replacement options:
  - 20 W halogen lamp – MR11 20

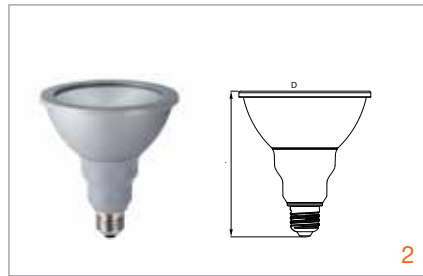
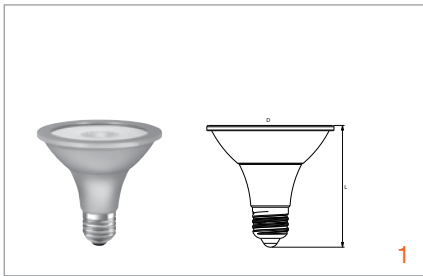
<sup>1</sup> All the technical parameters apply to the entire lamp. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

<sup>2</sup> LED lamps can be operated on a wide range of standard dimmers; for details and results of compatibility tests go to [www.osram.com/dim](http://www.osram.com/dim) and the links on that page to additional technical product information sheets.

<sup>3</sup> For details go to [www.osram.com/low-voltage-ledlamps](http://www.osram.com/low-voltage-ledlamps)



## OSRAM LED SUPERSTAR PAR30/38



Product reference



Product number (EAN)



## OSRAM LED SUPERSTAR PAR30

## E27 – 100–240 V – 30° – Box

PAR30 100 30°	1	4052899082601	13	870	2500	2700	80	✓	90	95	40,000
PAR30 100 30°	1	4052899082625	13	870	2500	3000	80	✓	90	95	40,000

## OSRAM LED SUPERSTAR PAR38

## E27 – 220–240 V – 30° – Box

PAR38 120 30°	2	4052899082649	17	1050	3000	2700	80	✓	135	121	40,000
PAR38 120 30°	2	4052899082663	17	1050	3000	3000	80	✓	135	121	40,000

## OSRAM LED SUPERSTAR PAR30

PAR30 line-voltage LED reflector lamps with E27 retrofit screw base

- Average life of 40,000 hours
- High resistance to switching transients (up to 100,000 switching cycles)
- Good colour rendering
- Dimmable<sup>2</sup>
- High luminous efficacy
- High luminous intensity
- Warm light colour (2700K, 3000K)
- Replacement options:
  - 100 W halogen lamp – PAR30 100

## OSRAM LED SUPERSTAR PAR38

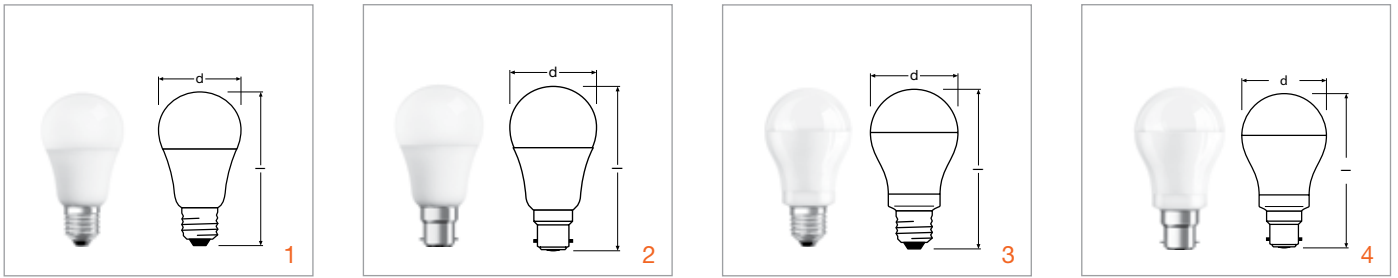
PAR38 line-voltage LED reflector lamps with E27 retrofit screw base

- High resistance to switching transients (up to 100,000 switching cycles)
- Good colour rendering
- Dimmable<sup>2</sup>
- High luminous efficacy
- High luminous intensity
- Warm light colour (2700K, 3000K)
- Suitable for outdoor applications in recommended IP rated fittings
- Replacement options:
  - 120 W halogen lamp – PAR38 120

<sup>1</sup> All the technical parameters apply to the entire lamp. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

<sup>2</sup> LED lamps can be operated on a wide range of standard dimmers; for details and results of compatibility tests go to [www.osram.com/dim](http://www.osram.com/dim) and the links on that page to additional technical product information sheets.

## OSRAM LED SUPERSTAR CLASSIC A advanced / LED STAR CLASSIC A



Product reference



No.

Product number (EAN)

W<sup>1</sup>lm<sup>1</sup>

K



Ra



2



h [mm]



d [mm]



t [h]

## LED Superstar Classic A Dimmable

CL A60 advanced frosted E27	1	4052899911222	10	810	2700	80	✓	110	60	20,000
CL A60 advanced frosted B22d	2	4052899913837	10	810	2700	80	✓	110	60	20,000

## LED Star Classic A

CL A25 frosted E27	3	4052899040052	4	250	2700	80	–	110	60	15,000
CL A25 frosted E27	3	4052899040434	4	250	6500	80	–	110	60	15,000
CL A25 frosted B22d	4	4052899040458	4	250	2700	80	–	110	60	15,000
CL A25 frosted B22d	4	4052899040472	4	250	6500	80	–	110	60	15,000
CL A40 frosted E27	3	4052899914131	6	400	2700	80	–	110	60	15,000
CL A40 frosted E27	3	4052899914148	6	400	6500	80	–	110	60	15,000
CL A40 frosted B22d	4	4052899914155	6	400	2700	80	–	110	60	15,000
CL A40 frosted B22d	4	4052899914162	6	400	6500	80	–	110	60	15,000
CL A60 frosted E27	3	4052899914179	9	650	2700	80	–	110	60	15,000
CL A60 frosted E27	3	4052899914186	9	650	6500	80	–	110	60	15,000
CL A60 frosted B22d	4	4052899914193	9	650	2700	80	–	110	60	15,000
CL A60 frosted B22d	4	4052899914209	9	650	6500	80	–	110	60	15,000
CL A70 frosted E27	3	4052899917491	10	810	2700	80	–	110	60	15,000
CL A70 frosted E27	3	4052899917507	10	810	6500	80	–	110	60	15,000
CL A70 frosted B22d	4	4052899917514	10	810	2700	80	–	110	60	15,000
CL A70 frosted B22d	4	4052899917521	10	810	6500	80	–	110	60	15,000

## OSRAM LED SUPERSTAR CLASSIC A advanced Dimmable

Line-voltage LED lamps with classic bulb shape with B22d and E27 retrofit-bases

- Average life of 20,000 hours
- Product portfolio “Made in Italy”
- Replacement options:
  - 60 W incandescent lamp – CLASSIC A60 advanced

## OSRAM LED STAR CLASSIC A

Line-voltage LED lamps with classic bulb shape with B22d and E27 retrofit bases

- Very good price/performance ratio
- Average life of 15,000 hours
- Pleasant beam angle
- Replacement options:
  - 25 W incandescent lamp – CLASSIC A25
  - 40 W incandescent lamp – CLASSIC A40
  - 60 W incandescent lamp – CLASSIC A60
  - 70 W incandescent lamp – CLASSIC A70

<sup>1</sup> All the technical parameters apply to the entire lamp. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

## OSRAM LED STAR CLASSIC B and CLASSIC P

Product  
referenceProduct  
number (EAN)

## LED Star Classic B

Product reference	No.	Product number (EAN)	W	lm	K	Ra	Candle	l (mm)	d (mm)	t (h)
CL B25 clear E14	1	4052899052475	4	250	2700	80	–	97	35	15,000
CL B25 frosted E14	2	4052899041264	4	250	2700	80	–	100	35	15,000

## LED Star Classic P

Product reference	No.	Product number (EAN)	W	lm	K	Ra	Candle	l (mm)	d (mm)	t (h)
CL P25 clear E14	3	4052899052499	4	250	2700	80	–	78	45	15,000
CL P25 clear E27	4	4052899052512	4	250	2700	80	–	78	45	15,000
CL P25 frosted E14	5	4052899041288	4	250	2700	80	–	78	45	15,000
CL P25 frosted E27	6	4052899041301	4	250	2700	80	–	78	45	15,000
CL P25 frosted B22d	7	4008321989277	4	200	3000	75	–	78	45	25,000

## OSRAM LED STAR CLASSIC B

Line-voltage LED lamps with classic candle shape and E14 retrofit-screw base

- Very good price/performance ratio
- Average life of 15,000 hours
- Replacement options:
  - 25 W incandescent lamp – CLASSIC B25

## OSRAM LED STAR CLASSIC P

Line-voltage LED lamps with classic round bulb shape and E14, E27 and B22d retrofit-screw base

- Very good price/performance ratio
- Average life of up to 25,000 hours
- Replacement options:
  - 25 W incandescent lamp – CLASSIC P25

<sup>1</sup> All the technical parameters apply to the entire lamp. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

# LED tubes as alternatives to T8 fluorescent tubes: OSRAM SubstiTUBE®

OSRAM SubstiTUBE® LED tubes are the simple and reliable replacements for T8 fluorescent tubes in CCG luminaires<sup>1,2</sup>. Thanks to their highly efficient LED technology they offer significant potential energy savings.



SubstiTUBE® lamps offer much lower energy and maintenance costs, particularly where lamps are in operation for long hours, such as office corridors.



## OSRAM SubstiTUBE®

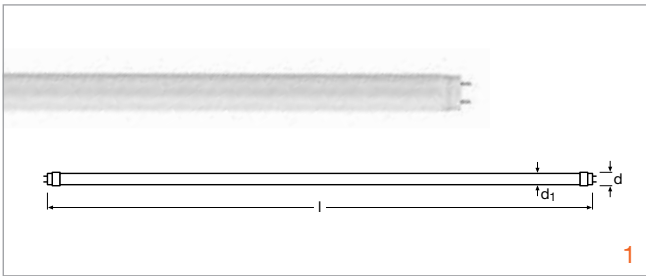
- Genuine retrofit solution for classic T8 fluorescent tubes in CCG luminaires<sup>1,2</sup>
- Quick, simple and safe relamping with no rewiring
- Energy savings of up to 68 % compared with a 1.5 m T8 fluorescent tube
- Up to five times longer life than normal fluorescent tubes<sup>3</sup>

<sup>1</sup> Only for use in CCG luminaires, not dimmable.

<sup>2</sup> Because of the way that SubstiTUBE® typically distributes its light the light characteristics of the luminaire may be different. After changing tubes, check whether the lighting still complies with the standards for workplace illumination, for example in an office.

<sup>3</sup> Depending on the type of tube and control gear.

## OSRAM SubstiTUBE® Basic G3



Product reference



No.

Product number (EAN)

W<sup>1</sup>lm<sup>1</sup>

K



Ra



°



l [mm]



d [mm]



t [h]

## G13 – 220–240 V – 160° – Box

ST8-HB2-080-830	1	4052899913912	9	800	3000	80	–	590	27.8	40,000
ST8-HB2-090-840	1	4052899913929	9	900	4000	80	–	590	27.8	40,000
ST8-HB2-090-865	1	4052899913936	9	900	6500	80	–	590	27.8	40,000
ST8-HB4-175-830	1	4052899913943	18	1750	3000	80	–	1200	27.8	40,000
ST8-HB4-190-840	1	4052899913950	18	1900	4000	80	–	1200	27.8	40,000
ST8-HB4-190-865	1	4052899913967	18	1900	6500	80	–	1200	27.8	40,000
ST8-HB5-200-830	1	4052899913974	22	2000	3000	80	–	1500	27.8	40,000
ST8-HB5-220-840	1	4052899913981	22	2200	4000	80	–	1500	27.8	40,000
ST8-HB5-220-865	1	4052899913998	22	2200	6500	80	–	1500	27.8	40,000

## OSRAM SubstiTUBE® Basic

- For a wide range of lighting tasks
- High efficiency of up to 105 lm/W
- Average life of 40,000 hours
- Energy savings of up to 68 % compared with a 1.5 m T8 fluorescent tube
- High resistance to switching transients (up to 200,000 switching cycles)
- Mercury-free and RoHS compliant
- Type of protection: IP20

<sup>1</sup> All the technical parameters apply to the entire lamp. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.



A series of horizontal dotted lines for taking notes.



# We offer you the perfect choice

As a lighting specialist with more than one hundred years of experience, OSRAM is the master of all lighting technologies and offers a wide range of products for all your lighting needs.

## Highlights from our product range



OSRAM DULUXSTAR® Mini Twist 12W – genuine low-cost replacement for 60W incandescent lamps in a particularly compact format



HALOGEN ECO PRO CLASSIC A 46W – genuine replacement for incandescent lamps with a classic shape and twice the life (up to 2000 hours)



POWERBALL® HCl®-T 50W/830 – new addition to the basic HCl® range with a luminous flux of approx. 5000 lm



LUMILUX® T5 HO CONSTANT – constant luminous flux over an extremely wide temperature range

### OSRAM Australia

Level 11, 423 Pennant Hills Road  
Pennant Hills, NSW 2120  
Australia  
Phone 1300 4 OSRAM (67726)  
Fax 1300 138 618  
www.osram.com.au

