Radium
Die Lichtmarke
New
LED Lamps
2020
Just whatever?
That was yesterday.
The best light
for bright minds.
www.radium.de/led-lamps

Just whatever? That was yesterday.
The best light for bright minds.

You want the best light for your lighting project? Then do you just take whatever? Certainly not. With the new LED lamp portfolio from Radium, we offer you high-quality products at reasonable conditions. We are thus following the trend that quality, sustainability and responsibility are once again in demand. Moving away from cheap products that are produced under questionable conditions. Towards branded products that are also worth their money.

Broad portfolio with over 200 models

With our new portfolio, we have increased our offering of LED lamps from 80 to over 200. In addition, you now benefit from even better technical specifications. This means that you will find the right LED lamps for every requirement – from the entry-level to the premium segment.

MADE IN GERMANY.

Quality made in Germany

Our RaLEDina, for example, doesn‘t come from the Far East, but from Wipperfürth. The decorative line lamp replaces the predecessor model Ralina and is manufactured on the same production line. With Radium, you trust a brand that economically combines state-of-the-art lighting technology and a responsible product policy.

Efficient with high-quality materials

The technical development of LED lamps is proceeding rapidly. This can also be seen in our portfolio, which now offers even better performance thanks to extended service life and increased performance. In addition, many models impress with their elegant all-glass design. This also means that most of our lamps do not have a heat sink.

— 5 — YEARS GUARANTEE

Safety through long guarantee

Thanks to the high quality of our products, we offer up to five years guarantee on the entire portfolio. The differences in duration usually relate to the “Star” and “Essence” product families. Further information on the guarantee conditions can be found at www.radium.de/guarantee.

Contents

LED Classic	04
LED Spots	14
LED Tubes	22
LED Special	34
LED's Save Calculator	44
Technical information	45
Explanation of pictograms	46

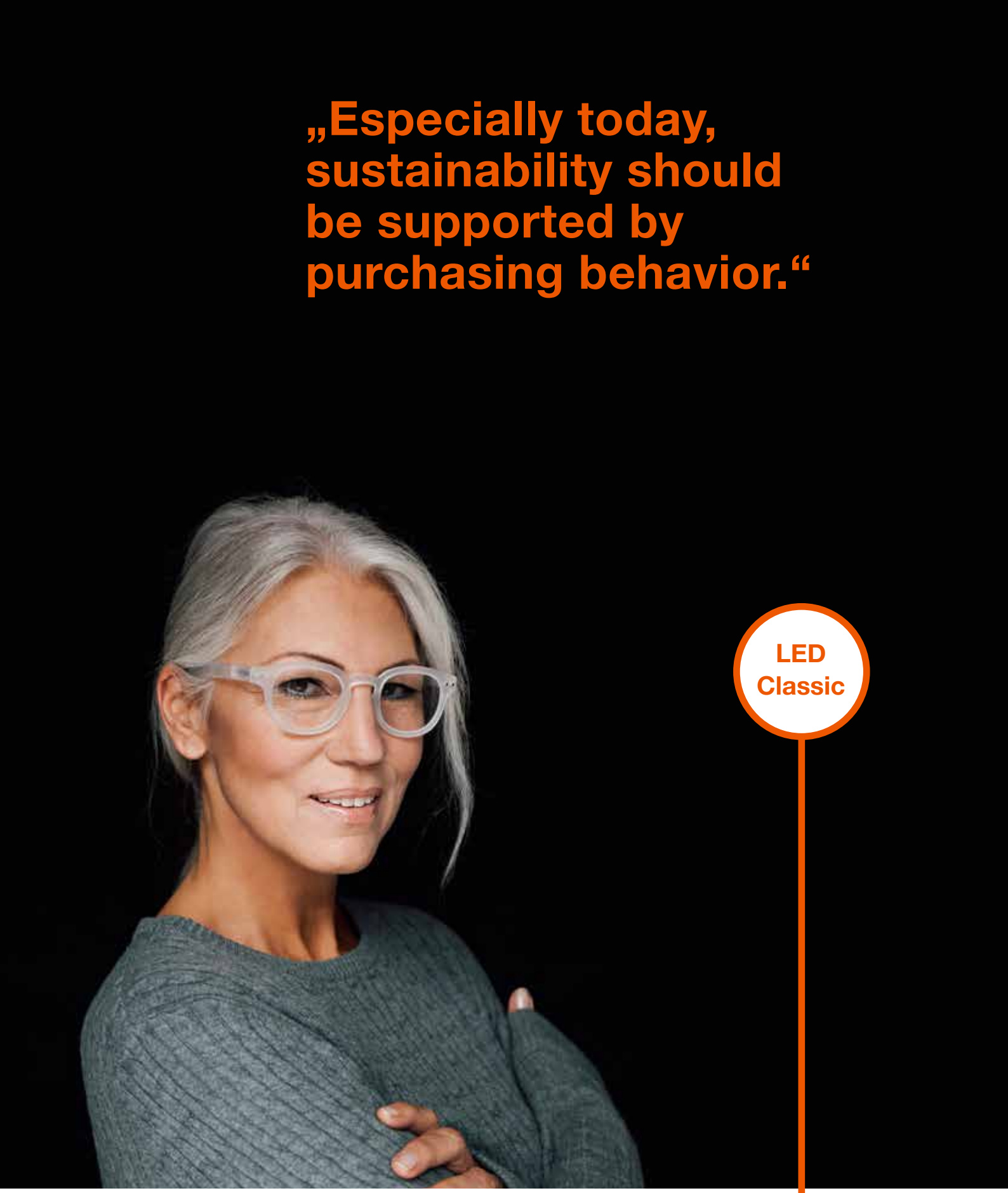
„For us, it's important to know how the lamps are manufactured."

Irrelevant? That was yesterday.

Sustainable light for people who stop and think.

Sustainability is becoming increasingly important – for private customers as well as for companies and building operators. Radium's new LED lamp portfolio focuses on this topic: with high-quality products in classic design such as the Classic A in bulb shape, the Classic D in drop shape and the Classic C in candle shape. Without fancy gimmicks, but instead in proven Radium brand quality. For people who think before they buy LED lamps.

„Especially today, sustainability should be supported by purchasing behavior.“



LED Classic

LED Classic

High-quality lamps in classic design

Proven designs with state-of-the-art technology

- Lamps in classic design
- Cosy warm white light or colder light colors
- Simple 1:1 exchange
- Extremely energy-saving: up to 85 %
- Long service life: up to 15,000 hours
- Instant 100 % light

Areas of application

- Restaurants
- Hotels
- Bars
- Apartments and private homes

1

2

5 YEARS GUARANTEE

LED Star Classic A

			W	lm	d mm	l mm			Pcs.		h
1	43519263	**RL-A60 DIM 827/F/E27**	7.0	806	60	105	E27		10	A++	15000
1	43518313	**RL-A60 DIM 840/F/E27**	7.0	806	60	105	E27		10	A++	15000
1	43518314	**RL-A75 DIM 827/F/E27**	8.5	1055	60	105	E27		10	A++	15000
1	43518315	**RL-A75 DIM 840/F/E27**	8.5	1055	60	105	E27		10	A++	15000
2	43518316	**RL-A100 DIM 827/F/E27**	12.0	1521	60	105	E27		10	A++	15000

1

2

— 4 — YEARS GUARANTEE

LED Essence Classic A

Glass

			W	lm	d mm	l mm			Pcs.		h
1	43619183	**RL-A40 827/F/E27**	4.0	470	60	105	E27		10	A++	15000
1	43619184	**RL-A40 840/F/E27**	4.0	470	60	105	E27		10	A++	15000
1	43619185	**RL-A60 827/F/E27**	6.5	806	60	105	E27		10	A++	15000
1	43619186	**RL-A60 840/F/E27**	6.5	806	60	105	E27		10	A++	15000
1	43619187	**RL-A75 827/F/E27**	7.5	1055	60	105	E27		10	A++	15000
1	43619188	**RL-A75 840/F/E27**	7.5	1055	60	105	E27		10	A++	15000
1	43619189	**RL-A100 827/F/E27**	11.0	1521	60	105	E27		10	A++	10000
1	43619556	**RL-A100 840/F/E27**	11.0	1521	60	105	E27		10	A++	15000
2	43619190	**RL-A150 827/F/E27**	15.0	2500	70	126	E27		10	A++	15000
2	43619191	**RL-A150 840/F/E27**	15.0	2500	70	126	E27		10	A++	15000

1

— 5 — YEARS GUARANTEE

LED Star Classic A

Glass

			W	lm	d mm	l mm			Pcs.		h
1	43518312	**RL-A60 DIM 827/C/E27 FIL**	7.0	806	60	105	E27		10	A++	15000

1

2

3

— 4 — YEARS GUARANTEE

LED Essence Classic A

Glass

			W	lm	d mm	l mm			Pcs.		h
1	43019088	**RL-A40 827/C/E27 FIL**	4.0	470	60	105	E27		10	A++	15000
1	43618711	**RL-A40 840/C/E27 FIL**	4.0	470	60	105	E27		10	A++	15000
2	42619089	**RL-A60 827/C/E27 FIL**	6.5	806	60	105	E27		10	A++	15000
2	43618713	**RL-A60 840/C/E27 FIL**	6.5	806	60	105	E27		10	A++	15000
3	43618714	**RL-A75 827/C/E27 FIL**	8.0	1055	60	105	E27		10	A++	15000
3	43618715	**RL-A75 840/C/E27 FIL**	8.0	1055	60	105	E27		10	A++	15000
3	43618716	**RL-A100 827/C/E27 FIL**	11.0	1521	60	105	E27		10	A++	10000
3	43618717	**RL-A100 840/C/E27 FIL**	11.0	1521	60	105	E27		10	A++	10000

1

— 5 — YEARS GUARANTEE

LED Star Mini-Ball

Glass

			W	lm	d mm	l mm			Pcs.		h
1	43519557	**RL-D40 DIM 827/F/E14**	4.5	470	45	78	E14		10	A++	15000

1

2

3

— 4 — YEARS GUARANTEE

LED Essence Mini-Ball

Glass

			W	lm	d mm	l mm			Pcs.		h
1	43619254	**RL-D40 827/F/E14**	4.0	470	45	77	E14		10	A++	15000
1	43619554	**RL-D40 840/F/E14**	4.0	470	45	77	E14		10	A++	15000
2	43619255	**RL-D40 827/F/E27**	4.0	470	45	77	E27		10	A++	15000
3	43619256	**RL-D60 827/F/E14**	6.5	806	45	110	E14		10	A++	15000

1

— 5 — YEARS GUARANTEE

LED Star Mini-Ball

Glass

			W	lm	d mm	l mm			Pcs.		h
1	43519265	**RL-D40 DIM 827/C/E14 FIL**	4.5	470	45	78	E14		10	A++	15000

1

2

3

— 4 — YEARS GUARANTEE

LED Essence Mini-Ball

Glass

			W	lm	d mm	l mm			Pcs.		h
1	43618712	**RL-D25 827/C/E14 FIL**	2.5	250	45	77	E14		10	A++	15000
2	43619119	**RL-D40 827/C/E14 FIL**	4.0	470	45	77	E14		10	A++	15000
2	43619257	**RL-D40 840/C/E14 FIL**	4.0	470	45	77	E14		10	A++	15000
3	43619258	**RL-D60 827/C/E14 FIL**	6.5	806	45	110	E14		10	A++	15000

1

5 YEARS GUARANTEE

LED Star Globe

			W	lm	d mm	l mm			Pcs.		h
											L70
										E→A++	
		Glass									
1	43519110	**RL-G95 100 DIM 827/F/E27**	12.0	1521	95	138	E27		10	A++	15000

1

5 YEARS GUARANTEE

LED Star Candle

Glass

			W	lm	d mm	l mm			Pcs.	EL E→A++	L70 h
1	43519229	**RL-C40 DIM 827/F/E14**	4.5	470	35	97	E14		10	A+	15000
1	43518710	**RL-C60 DIM 827/F/E14**	6.5	806	35	97	E14		10	A++	15000

1

4 YEARS GUARANTEE

LED Essence Candle

Glass

			W	lm	d mm	l mm			Pcs.	EL E→A++	L70 h
1	43618708	**RL-C40 827/F/E14**	4.0	470	35	100	E14		10	A++	15000
1	43619555	**RL-C40 840/F/E14**	4.0	470	35	100	E14		10	A++	15000
1	43619249	**RL-C60 827/F/E14**	6.5	806	35	97	E14		10	A++	15000

1

— 5 — YEARS GUARANTEE

LED Star Candle

Glass

			W	lm	d mm	l mm			Pcs.		h
1	43519264	**RL-C40 DIM 827/C/E14 FIL**	4.5	470	35	97	E14		10	A++	15000

1 2 3 4 5

— 4 — YEARS GUARANTEE

LED Essence Candle

Glass

			W	lm	d mm	l mm			Pcs.		h
1	43619252	**RL-C25 827/C/E14 FIL**	2.5	250	35	100	E14		10	A++	15000
2	43618707	**RL-C40 827/C/E14 FIL**	4.0	470	35	100	E14		10	A++	15000
3	43619250	**RL-CA40 827/C/E14 FIL**	4.0	470	35	121	E14		10	A++	15000
4	43619251	**RL-CW40 827/C/E14 FIL**	4.0	470	35	100	E14		10	A++	15000
5	43619253	**RL-C60 827/C/E14 FIL**	6.5	806	35	118	E14		10	A++	15000

No-name? That was yesterday.

Brilliant light for the quality-conscious.

Today, almost anyone can sell LED lamps at extremely low prices and with less service. But there are more and more people who don't want to buy these no-name products anymore. Our LED lamp family therefore includes high-quality LED spot lamps such as LED R63, LED PAR16 or LED MR16, which set brilliant highlights with directional light and modern design. For quality-conscious people who appreciate not only brand quality but also personal advice.

„I deliberately pay attention to where and, above all, how production takes place.“

LED Spots

LED Spots

Spot lighting for professional applications

The new generation focuses on performance

- Direct replacement of incandescent and halogen reflector lamps
- Extremely energy-saving
- Long service life of up to 40,000 hours
- Efficient high-power LEDs
- New innovative design
- Low heat generation
- Many dimmable

Areas of application

- Shops
- Restaurants
- Hotels
- Bars
- Corridors
- Apartments and private homes

1

2

MADE IN GERMANY.

— 5 — YEARS GUARANTEE

LED Star PAR16

				W	lm	d mm	l mm			Pcs.		h
MIG.	1	43519192	**RL-PAR16 35 DIM 927/WFL**	3.7	230	51	55	GU10	○	10	A+	25000
MIG.	1	43519193	**RL-PAR16 50 DIM 927/WFL**	5.5	350	51	55	GU10	○	10	A+	25000
MIG.	1	43519194	**RL-PAR16 50 DIM 930/WFL**	5.5	350	51	55	GU10	○	10	A+	25000
MIG.	1	43519195	**RL-PAR16 50 DIM 940/WFL**	5.5	350	51	55	GU10	○	10	A+	25000
	1	43319519	**RL-PAR16 80 DIM 827/WFL**	8.0	575	51	55	GU10	○	10	A+	25000
	1	43319518	**RL-PAR16 80 DIM 830/WFL**	8.0	575	51	55	GU10	○	10	A+	25000
	1	43519198	**RL-PAR16 80 DIM 840/WFL**	8.0	575	51	55	GU10	○	10	A+	25000
	2	43519199	**RL-PAR16 80 DIM 827/VWFL***	8.0	575	51	55	GU10	○	10	A+	25000
	2	43518457	**RL-PAR16 80 DIM 830/VWFL***	8.0	575	51	55	GU10	○	10	A+	25000
	2	43519200	**RL-PAR16 80 DIM 840/VWFL***	8.0	575	51	55	GU10	○	10	A+	25000

1

2

MADE IN GERMANY.

— 4 — YEARS GUARANTEE

LED Essence PAR16

			W	lm	d mm	l mm			Pcs.	EL E→A++	L70 h	
1	43619201	**RL-PAR16 50 827/WFL**	4.3	350	51	55	GU10	●	10	A++	15000	MIG.
1	43619205	**RL-PAR16 50 830/WFL**	4.3	350	51	55	GU10	●	10	A++	15000	MIG.
1	43619206	**RL-PAR16 50 840/WFL**	4.3	350	51	55	GU10	○	10	A++	15000	MIG.
2	43619208	**RL-PAR16 50 827/VWFL***	4.3	350	51	55	GU10	●	10	A+	15000	MIG.
2	43618701	**RL-PAR16 50 830/VWFL***	4.3	350	51	55	GU10	●	10	A+	15000	MIG.
2	43619209	**RL-PAR16 50 840/VWFL***	4.3	350	51	55	GU10	○	10	A+	15000	MIG.
1	43619210	**RL-PAR16 80 827/WFL**	6.9	575	51	55	GU10	●	10	A+	15000	MIG.
1	43619212	**RL-PAR16 80 830/WFL**	6.9	575	51	55	GU10	●	10	A+	15000	MIG.
1	43619214	**RL-PAR16 80 840/WFL**	6.9	575	51	55	GU10	○	10	A+	15000	MIG.
2	43619211	**RL-PAR16 80 827/VFWL***	6.9	575	51	55	GU10	●	10	A+	15000	MIG.
2	43618702	**RL-PAR16 80 830/VFWL***	6.9	575	51	55	GU10	●	10	A+	15000	MIG.
2	43619213	**RL-PAR16 80 840/VWFL***	6.9	575	51	55	GU10	○	10	A+	15000	MIG.

1

— 4 — YEARS GUARANTEE

LED Essence MR11

			W	lm	d mm	l mm			Pcs.		h
1	43619248	**RL-MR11 20 827/WFL**	2.5	184	35	38	GU4		10	A+	15000
1	43619244	**RL-MR11 35 827/WFL**	4.0	345	35	38	GU4		10	A+	15000

1

— 5 — YEARS GUARANTEE

LED Star MR16

			W	lm	d mm	l mm			Pcs.		h
1	43519239	**RL-MR16 35 DIM 927/WFL**	6.3	350	51	53	GU5.3		10	A	40000
1	43519240	**RL-MR16 35 DIM 930/WFL**	6.3	350	51	53	GU5.3		10	A	40000
1	43518455	**RL-MR16 35 DIM 940/WFL**	6.3	350	51	53	GU5.3		10	A	40000
1	43519241	**RL-MR16 43 DIM 927/WFL**	7.8	500	51	53	GU5.3		10	A	40000
1	43519242	**RL-MR16 43 DIM 930/WFL**	7.8	500	51	53	GU5.3		10	A	40000
1	43518456	**RL-MR16 43 DIM 940/WFL**	7.8	500	51	53	GU5.3		10	A	40000

1

2

MADE IN GERMANY.

— 4 — YEARS GUARANTEE

LED Essence MR16

			W	lm	d mm	l mm			Pcs.		h	
2	43019051	**RL-MR16 35 827/WFL**	4.6	350	51	46	GU5.3		10	A+	15000	MIG.
2	43519220	**RL-MR16 35 830/WFL**	4.6	350	51	46	GU5.3		10	A+	15000	MIG.
2	43618599	**RL-MR16 35 840/WFL**	4.6	350	51	46	GU5.3		10	A+	15000	MIG.
1	43618600	**RL-MR16 50 827/WFL**	7.2	621	51	53	GU5.3		10	A+	15000	
1	43618601	**RL-MR16 50 830/WFL**	7.2	621	51	53	GU5.3		10	A+	15000	
1	43618602	**RL-MR16 50 840/WFL**	7.2	621	51	53	GU5.3		10	A+	15000	

— 5 — YEARS GUARANTEE

1

LED Star AR111

			W	lm	d mm	l mm			Pcs.		h
1	43319535	**RL-AR111 75 DIM 930/FL**	15.0	800	111	55	G53		6	A	40000
1	43319536	**RL-AR111 75 DIM 930/WFL***	15.0	800	111	55	G53		6	A	40000

3 YEARS GUARANTEE

1

LED Essence GX53

			W	lm	d mm	l mm			Pcs.		h
1	43618461	**RL-GX53 40 827/VWFL**	6.1	470	75	31	GX53		10	A+	15000

4 YEARS GUARANTEE

1
2
3

LED Essence R50, R63 & R80

			W	lm	d mm	l mm			Pcs.		h
1	43618820	**RL-R50 40 827/WFL**	2.6	210	50	85	E14		10	A++	15000
2	43618822	**RL-R63 60 827/WFL**	4.3	345	63	102	E27		10	A+	15000
3	43618705	**RL-R80 100 827/WFL**	9.1	670	80	113	E27		10	A+	15000

1

2

3

— 5 — YEARS GUARANTEE

LED Star PAR20, PAR30 & PAR38

			W	lm	d mm	l mm			Pcs.		h
1	43518459	**RL-PAR20 50 DIM 927/WFL**	5.0	345	63	78	E27		6	A+	25000
2	43519121	**RL-PAR30 75 DIM 927/WFL**	10.0	633	95	91	E27		6	A	25000
3	43519122	**RL-PAR38 120 DIM 827/WFL***	12.5	1035	120	132	E27		6	A+	25000

1

— 4 — YEARS GUARANTEE

LED Essence PAR38

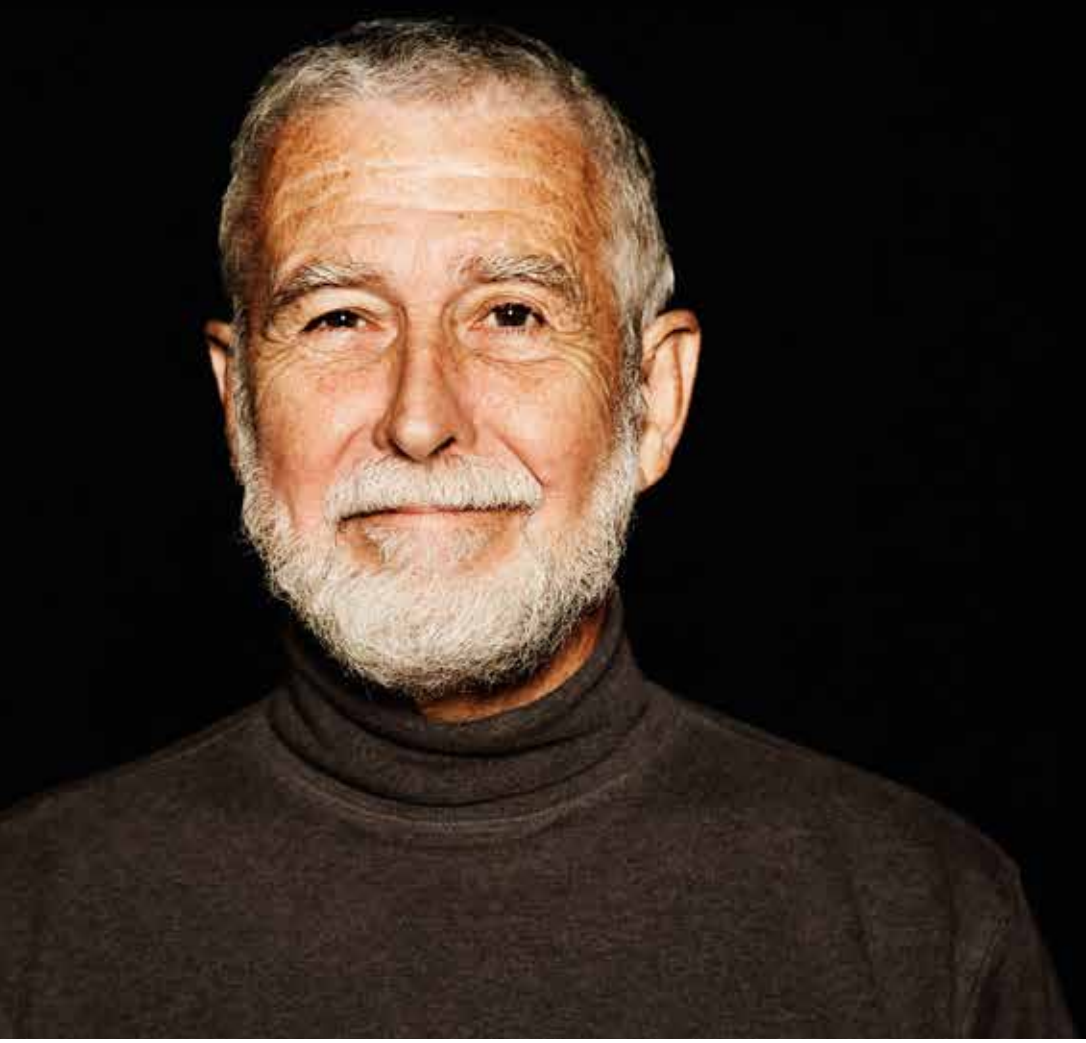
			W	lm	d mm	l mm			Pcs.		h
1	43618913	**RL-PAR38 120 827/SP**	12.5	1035	120	132	E27		6	A+	25000
1	43618818	**RL-PAR38 120 827/FL***	12.5	1035	120	132	E27		6	A+	25000

Short service life? That was yesterday.

Durable light for the indestructible.

Experience has shown that products manufactured at very low prices often break down faster than you can say “junk lamp.” Many people are therefore looking for really good alternatives that can be trusted in the long term. This is what Radium‘s new product range is all about – for example with high-quality LED tubes such as the LED T5 Tubes, LED T8 Tubes or the round LED T9 Ring as replacements for classic fluorescent lamps. For the indestructible who prefer real brand products.

„Anyone who is serious about eco-friendliness should choose products that last longer.“



LED Tubes

The type of luminaire is essential.

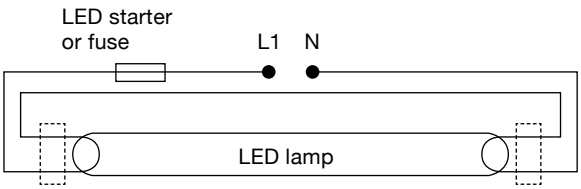
The right LED tube for every application.

When replacing fluorescent lamps with the latest Radium LED technology, the choice of the right LED tube depends on the type of luminaire. Basically, there are three circuit options:

- With direct wiring, the LED tube is operated directly on mains voltage. If the existing luminaire is not designed for this type of operation, the luminaire must be converted. We always recommend to use the supplied LED starter and to mark the luminaire clearly (only for LED tubes).
- For luminaires with conventional control gear (CCG), the fluorescent tube is replaced 1:1 by an LED tube. In addition, the starter is replaced by the supplied LED starter. We recommend removing the compensation capacitor.
- Our HF or UN versions are suitable for luminaires with electronic control gear (ECG). The tubes are replaced 1:1, but compatibility must be checked against the compatibility list.

Which operating mode is being used?

Direct wiring (230V).



Which output do you need?

LED Essence T9 Ring EM

Up to 2000lm

Electromagnetic

Page 32

205mm

- RL-T9 C22 840/G10q EM
- RL-T9 C22 865/G10q EM

298 mm

- RL-T9 C32 840/G10q EM
- RL-T9 C32 865/G10q EM

LED Essence Tube T8 EM

Up to 2000lm

Electromagnetic

Page 32

600mm

- RL-T8 18 830/G13 EM
- RL-T8 18 840/G13 EM
- RL-T8 18 865/G13 EM

1200mm

- RL-T8 36 830/G13 EM
- RL-T8 36 840/G13 EM
- RL-T8 36 865/G13 EM

1500mm

- RL-T8 58 830/G13 EM
- RL-T8 58 840/G13 EM
- RL-T8 58 865/G13 EM

LED Star Tube T5 HE UN

Up to 2800lm

High Efficency
Universal

Page 29

549mm

- RL-T5 14 HE 830/G5 UN
- RL-T5 14 HE 840/G5 UN
- RL-T5 14 HE 865/G5 UN

849mm

- RL-T5 21 HE 830/G5 UN
- RL-T5 21 HE 840/G5 UN
- RL-T5 21 HE 865/G5 UN

1149mm

- RL-T5 28 HE 830/G5 UN
- RL-T5 28 HE 840/G5 UN
- RL-T5 28 HE 865/G5 UN

1449mm

- RL-T5 35 HE 830/G5 UN
- RL-T5 35 HE 840/G5 UN
- RL-T5 35 HE 865/G5 UN

LED Star Tube T8 UN

Up to 3100lm

Universal

Page 30

600mm

- RL-T8 18 S 830/G13 UN
- RL-T8 18 S 840/G13 UN
- RL-T8 18 S 865/G13 UN

1200mm

- RL-T8 36 S 830/G13 UN
- RL-T8 36 S 840/G13 UN
- RL-T8 36 S 865/G13 UN

1500mm

- RL-T8 58 S 830/G13 UN
- RL-T8 58 S 840/G13 UN
- RL-T8 58 S 865/G13 UN

LED Star Tube T8 EM

Up to 3100lm

Electromagnetic

Page 31

600mm

- RL-T8 18 S 840/G13 EM
- RL-T8 18 S 865/G13 EM

900mm

- RL-T8 30 S 840/G13 EM
- RL-T8 30 S 865/G13 EM

1200mm

- RL-T8 36 S 840/G13 EM
- RL-T8 36 S 865/G13 EM

1500mm

- RL-T8 58 S 840/G13 EM
- RL-T8 58 S 865/G13 EM

LED Star Tube T8 HO EM

Up to 3700lm

High Output
Electromagnetic

Page 31

1200mm

- RL-T8 36 HO 840/G13 EM
- RL-T8 36 HO 865/G13 EM

1500mm

- RL-T8 58 HO 840/G13 EM
- RL-T8 58 HO 865/G13 EM

LED Star Tube T8 HO UN

Up to 3700lm

High Output
Universal

Page 30

1200mm

- RL-T8 36 HO 840/G13 UN
- RL-T8 36 HO 865/G13 UN

1500mm

- RL-T8 58 HO 840/G13 UN
- RL-T8 58 HO 865/G13 UN

LED Star Tube T5 HO UN

Up to 5600lm

High Output
Universal

Page 28

1149mm

- RL-T5 54 HO 830/G5 UN
- RL-T5 54 HO 840/G5 UN
- RL-T5 54 HO 865/G5 UN

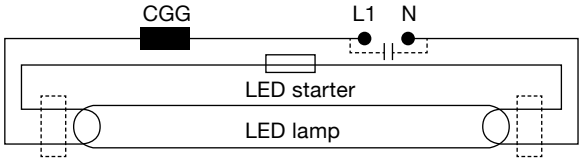
1449mm

- RL-T5 49 HO 830/G5 UN
- RL-T5 49 HO 840/G5 UN
- RL-T5 49 HO 865/G5 UN
- RL-T5 80 HO 830/G5 UN
- RL-T5 80 HO 840/G5 UN
- RL-T5 80 HO 865/G5 UN

Which operating mode is being used? CCG

CCG operation.

Lamp + Starter + Conventional control gear



Which output do you need?

LED Essence T9 Ring EM
Up to 2000lm
Electromagnetic
Page 32

205mm
- RL-T9 C22 840/G10q EM
- RL-T9 C22 865/G10q EM

298mm
- RL-T9 C32 840/G10q EM
- RL-T9 C32 865/G10q EM

LED Essence Tube T8 EM
Up to 2000lm
Electromagnetic
Page 32

600mm
- RL-T8 18 830/G13 EM
- RL-T8 18 840/G13 EM
- RL-T8 18 865/G13 EM

1200mm
- RL-T8 36 830/G13 EM
- RL-T8 36 840/G13 EM
- RL-T8 36 865/G13 EM

1500mm
- RL-T8 58 830/G13 EM
- RL-T8 58 840/G13 EM
- RL-T8 58 865/G13 EM

LED Star Tube T8 EM
Up to 3100lm
Electromagnetic
Page 31

600mm
- RL-T8 18 S 840/G13 EM
- RL-T8 18 S 865/G13 EM

900mm
- RL-T8 30 S 840/G13 EM
- RL-T8 30 S 865/G13 EM

1200mm
- RL-T8 36 S 840/G13 EM
- RL-T8 36 S 865/G13 EM

1500mm
- RL-T8 58 S 840/G13 EM
- RL-T8 58 S 865/G13 EM

LED Star Tube T8 UN
Up to 3100lm
Universal
Page 30

600mm
- RL-T8 18 S 830/G13 UN
- RL-T8 18 S 840/G13 UN
- RL-T8 18 S 865/G13 UN

1200mm
- RL-T8 36 S 830/G13 UN
- RL-T8 36 S 840/G13 UN
- RL-T8 36 S 865/G13 UN

1500mm
- RL-T8 58 S 830/G13 UN
- RL-T8 58 S 840/G13 UN
- RL-T8 58 S 865/G13 UN

LED Star Tube T8 HO EM
Up to 3700lm
High Output
Electromagnetic
Page 31

1200mm
- RL-T8 36 HO 840/G13 EM
- RL-T8 36 HO 865/G13 EM

1500mm
- RL-T8 58 HO 840/G13 EM
- RL-T8 58 HO 865/G13 EM

LED Star Tube T8 HO UN
Up to 3700lm
High Output
Universal
Page 30

1200mm
- RL-T8 36 HO 840/G13 UN
- RL-T8 36 HO 865/G13 UN

1500mm
- RL-T8 58 HO 840/G13 UN
- RL-T8 58 HO 865/G13 UN

Which operating mode is being used?

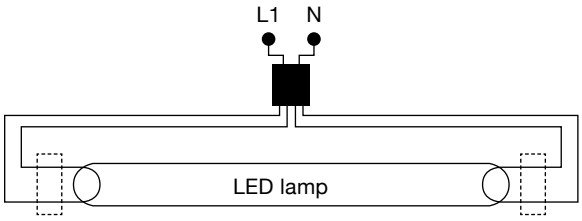
ECG

ECG operation.

Lamp

+

Electronic control gear



Which output do you need?

LED Star Tube T5 HE UN

Up to 2800lm

High Efficency
Universal
Page 29

549mm

RL-T5 14 HE 830/G5 UN	●
RL-T5 14 HE 840/G5 UN	○
RL-T5 14 HE 865/G5 UN	●

849mm

RL-T5 21 HE 830/G5 UN	●
RL-T5 21 HE 840/G5 UN	○
RL-T5 21 HE 865/G5 UN	●

1149mm

RL-T5 28 HE 830/G5 UN	●
RL-T5 28 HE 840/G5 UN	○
RL-T5 28 HE 865/G5 UN	●

1449mm

RL-T5 35 HE 830/G5 UN	●
RL-T5 35 HE 840/G5 UN	○
RL-T5 35 HE 865/G5 UN	●

LED Star Tube T8 UN

Up to 3100lm

Universal

Page 30

600mm

RL-T8 18 S 830/G13 UN	●
RL-T8 18 S 840/G13 UN	○
RL-T8 18 S 865/G13 UN	●

1200mm

RL-T8 36 S 830/G13 UN	●
RL-T8 36 S 840/G13 UN	○
RL-T8 36 S 865/G13 UN	●

1500mm

RL-T8 58 S 830/G13 UN	●
RL-T8 58 S 840/G13 UN	○
RL-T8 58 S 865/G13 UN	●

LED Star Tube T8 HO UN

Up to 3700lm

High Output
Universal
Page 30

1200mm

RL-T8 36 HO 840/G13 UN	○
RL-T8 36 HO 865/G13 UN	●

1500mm

RL-T8 58 HO 840/G13 UN	○
RL-T8 58 HO 865/G13 UN	●

LED Star Tube T5 HO UN

Up to 5600lm

High Output
Universal
Page 28

1149mm

RL-T5 54 HO 830/G5 UN	●
RL-T5 54 HO 840/G5 UN	○
RL-T5 54 HO 865/G5 UN	●

1449mm

RL-T5 49 HO 830/G5 UN	●
RL-T5 49 HO 840/G5 UN	○
RL-T5 49 HO 865/G5 UN	●
RL-T5 80 HO 830/G5 UN	●
RL-T5 80 HO 840/G5 UN	○
RL-T5 80 HO 865/G5 UN	●

Operate only on approved ECGs according to Radium compatibility list www.radium.de/compatibility

LED Tubes

Energy-saving alternatives to fluorescent tubes

High-quality lighting for a wide range of tasks

- Classic design with glass bulb
- Direct replacement of traditional T8 and T5 fluorescent lamps (ECG or CCG operation)
- Homogeneous light distribution and high luminous flux even at cold ambient temperatures
- Extremely energy-saving: up to 60%
- Easy handling, no modification of the luminaire
- Fast and flicker-free start
- Wide beam angle
- Rotatable end caps (for Star Tube)

Areas of application

- Industrial lighting
- Parking garages
- Paths and corridors
- Maintenance rooms
- Indirect lighting
- Backlighting

5 YEARS GUARANTEE

1

LED Star Tube T5 HO UN

			W	lm	d mm	l mm			Pcs.		h
1	43518502	**RL-T5 49 HO 830/G5 UN**	26.0	3600	21	1449	G5		10	A++	60000
1	43519548	**RL-T5 49 HO 840/G5 UN**	26.0	4000	21	1449	G5		10	A++	60000
1	43518504	**RL-T5 49 HO 865/G5 UN**	26.0	4000	21	1449	G5		10	A++	60000
1	43518499	**RL-T5 54 HO 830/G5 UN**	26.0	3600	21	1149	G5		10	A++	60000
1	43519549	**RL-T5 54 HO 840/G5 UN**	26.0	4000	21	1149	G5		10	A++	60000
1	43518501	**RL-T5 54 HO 865/G5 UN**	26.0	4000	21	1149	G5		10	A++	60000
1	43518480	**RL-T5 80 HO 830/G5 UN**	37.0	5050	21	1449	G5		10	A++	60000
1	43519550	**RL-T5 80 HO 840/G5 UN**	37.0	5600	21	1449	G5		10	A++	60000
1	43518482	**RL-T5 80 HO 865/G5 UN**	37.0	5600	21	1449	G5		10	A++	60000

Operate only on approved ECGs according to Radium compatibility list www.radium.de/compatibility

5 YEARS GUARANTEE

1

LED Star Tube T5 HE UN

			W	lm	d mm	l mm			Pcs.	E→A++	L70 h
1	43518516	**RL-T5 14 HE 830/G5 UN**	7.0	900	21	549	G5		10	A++	60000
1	43519545	**RL-T5 14 HE 840/G5 UN**	7.0	1000	21	549	G5		10	A++	60000
1	43518520	**RL-T5 14 HE 865/G5 UN**	7.0	1000	21	549	G5		10	A++	60000
1	43518513	**RL-T5 21 HE 830/G5 UN**	10.0	1350	21	849	G5		10	A++	60000
1	43518514	**RL-T5 21 HE 840/G5 UN**	10.0	1500	21	849	G5		10	A++	60000
1	43518515	**RL-T5 21 HE 865/G5 UN**	10.0	1500	21	849	G5		10	A++	60000
1	43518510	**RL-T5 28 HE 830/G5 UN**	17.0	2350	21	1149	G5		10	A++	60000
1	43519546	**RL-T5 28 HE 840/G5 UN**	17.0	2600	21	1149	G5		10	A++	60000
1	43518512	**RL-T5 28 HE 865/G5 UN**	17.0	2600	21	1149	G5		10	A++	60000
1	43518505	**RL-T5 35 HE 830/G5 UN**	18.0	2550	21	1449	G5		10	A++	60000
1	43519547	**RL-T5 35 HE 840/G5 UN**	18.0	2800	21	1449	G5		10	A++	60000
1	43518509	**RL-T5 35 HE 865/G5 UN**	18.0	2800	21	1449	G5		10	A++	60000

Operate only on approved ECGs according to Radium compatibility list www.radium.de/compatibility

1

LED Star Tube T8 HO UN

			W	lm	d mm	l mm			Pcs.		h
1	43519223	**RL-T8 36 HO 840/G13 UN**	15.0	2400	28	1200	G13	○	10	A++	60000
1	43519224	**RL-T8 36 HO 865/G13 UN**	15.0	2400	28	1200	G13	●	10	A++	60000
1	43519225	**RL-T8 58 HO 840/G13 UN**	23.0	3700	28	1500	G13	○	10	A++	60000
1	43519226	**RL-T8 58 HO 865/G13 UN**	23.0	3700	28	1500	G13	●	10	A++	60000

Operate only on approved ECGs according to Radium compatibility list www.radium.de/compatibility

1

LED Star Tube T8 UN

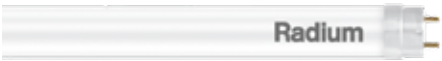
			W	lm	d mm	l mm			Pcs.		h
1	43518415	**RL-T8 18 S 830/G13 UN**	7.5	1000	28	600	G13	●	10	A++	50000
1	43519542	**RL-T8 18 S 840/G13 UN**	7.5	1100	28	600	G13	○	10	A++	50000
1	43518419	**RL-T8 18 S 865/G13 UN**	7.5	1100	28	600	G13	●	10	A++	50000
1	43518420	**RL-T8 36 S 830/G13 UN**	14.0	1900	28	1200	G13	●	10	A++	50000
1	43519543	**RL-T8 36 S 840/G13 UN**	14.0	2100	28	1200	G13	○	10	A++	50000
1	43518422	**RL-T8 36 S 865/G13 UN**	14.0	2100	28	1200	G13	●	10	A++	50000
1	43518438	**RL-T8 58 S 830/G13 UN**	20.0	2800	28	1500	G13	●	10	A++	50000
1	43519544	**RL-T8 58 S 840/G13 UN**	20.0	3100	28	1500	G13	○	10	A++	50000
1	43518441	**RL-T8 58 S 865/G13 UN**	20.0	3100	28	1500	G13	●	10	A++	50000

Operate only on approved ECGs according to Radium compatibility list www.radium.de/compatibility

1

LED Star Tube T8 HO EM

			W	lm	d mm	l mm			Pcs.		h
1	43519215	**RL-T8 36 HO 840/G13 EM**	15.1	2500	26.7	1200	G13	○	10	A++	60000
1	43519216	**RL-T8 36 HO 865/G13 EM**	15.1	2500	26.7	1200	G13	●	10	A++	60000
1	43519217	**RL-T8 58 HO 840/G13 EM**	22.4	3700	26.7	1500	G13	○	10	A++	60000
1	43519218	**RL-T8 58 HO 865/G13 EM**	22.4	3700	26.7	1500	G13	●	10	A++	60000



1

LED Star Tube T8 EM

			W	lm	d mm	l mm			Pcs.		h
1	43518307	**RL-T8 18 S 840/G13 EM**	7.3	1100	26.7	600	G13	○	10	A++	50000
1	43518308	**RL-T8 18 S 865/G13 EM**	7.3	1100	26.7	600	G13	●	10	A++	50000
1	43518309	**RL-T8 30 S 840/G13 EM**	11.3	1700	26.7	900	G13	○	10	A++	50000
1	43518320	**RL-T8 30 S 865/G13 EM**	11.3	1700	26.7	900	G13	●	10	A++	50000
1	43518321	**RL-T8 36 S 840/G13 EM**	14.0	2100	26.7	1200	G13	○	10	A++	50000
1	43518322	**RL-T8 36 S 865/G13 EM**	14.0	2100	26.7	1200	G13	●	10	A++	50000
1	43518350	**RL-T8 58 S 840/G13 EM**	20.6	3100	26.7	1500	G13	○	10	A++	50000
1	43518351	**RL-T8 58 S 865/G13 EM**	20.6	3100	26.7	1500	G13	●	10	A++	50000

3 YEARS GUARANTEE

1

LED Essence Tube T8 EM

			W	lm	d mm	l mm			Pcs.		h
1	43618521	**RL-T8 18 830/G13 EM**	7.6	720	26.7	600	G13		10	A+	30000
1	43618522	**RL-T8 18 840/G13 EM**	7.6	800	26.7	600	G13		10	A+	30000
1	43618523	**RL-T8 18 865/G13 EM**	7.6	800	26.7	600	G13		10	A+	30000
1	43618524	**RL-T8 36 830/G13 EM**	16.2	1530	26.7	1200	G13		10	A+	30000
1	43618525	**RL-T8 36 840/G13 EM**	16.2	1700	26.7	1200	G13		10	A+	30000
1	43618526	**RL-T8 36 865/G13 EM**	16.2	1700	26.7	1200	G13		10	A+	30000
1	43618527	**RL-T8 58 830/G13 EM**	19.1	1800	26.7	1500	G13		10	A+	30000
1	43618530	**RL-T8 58 840/G13 EM**	19.1	2000	26.7	1500	G13		10	A+	30000
1	43618531	**RL-T8 58 865/G13 EM**	19.1	2000	26.7	1500	G13		10	A+	30000

3 YEARS GUARANTEE

1

2

LED Essence T9 Ring EM

			W	lm	d mm	l mm			Pcs.		h
1	43218810	**RL-T9 C22 840/G10q EM**	12.0	1200	205	–	G10q		10	A+	30000
1	43218811	**RL-T9 C22 865/G10q EM**	12.0	1200	205	–	G10q		10	A+	30000
2	43218812	**RL-T9 C32 840/G10q EM**	20.0	2000	298	–	G10q		10	A+	30000
2	43218813	**RL-T9 C32 865/G10q EM**	20.0	2000	298	–	G10q		10	A+	30000

Cheap rubbish? That was yesterday.

High-quality light for valuable people.

Today, LEDs are increasingly being installed in luminaires that, in the event of a defect, can only be disposed of as a whole. However, more and more people want to be able to replace lamps and thus contribute to more environmental protection. High-quality LED Special Lamps from Radium support this trend – e.g. with LED HRL, LED R7s or LED PIN as replacements for halogen, compact fluorescent or mercury vapor lamps. For all those who are already thinking about future generations.

„Our principle is to replace lamps instead of throwing away entire luminaires.“

LED Special Lamps

LED Special Lamps

Efficient portfolio for special applications

Excellent internal and external values

- Direct replacement of halogen, compact fluorescent and mercury vapor lamps
- Easy handling, no modification of the luminaire
- Instant 100 % light
- Extremely energy-saving
- High luminous flux: up to 6,000 lm (RL HRL), 2,000 lm (RL TS) and 1,000 lm (RL DUO), respectively
- Service life of up to 32,000 (RL HRL), 30,000 (RL DUO) or 25,000 hours (RL TS)

Areas of application

- Decorative and glare-free lighting: RaLEDina Star and Essence
- Replacement of mercury vapor lamps, e.g. in outdoor lighting: LED Essence HRL
- Replacement of compact fluorescent lamps, e.g. in recessed ceiling luminaires: LED Essence DUO G24d, LED Long HF
- Replacement of halogen lamps, e.g. in ceiling floodlights and spotlights: LED R7s Star and Essence
- Replacement of halogen pin-base lamps, e.g. in ceiling luminaires and recessed furniture luminaires: LED PIN Star and Essence
- Replacement of tube lamps e.g. in range hoods and refrigerators: LED Essence T26

1

2

3

4

MADE IN GERMANY.

– 5 – YEARS GUARANTEE

RaLEDina Star

				W	lm	d mm	l mm			Pcs.		h
MIG.	1	43514840	RL-RAL1 35 DIM 827/0	4.5	260	29	300	S14D		10	A	25000
MIG.	2	43514841	RL-RAL1 60 DIM 827/0	7.0	470	29	500	S14D		10	A	25000
MIG.	3	43514838	RL-RAL2 35 DIM 827/0	4.5	260	29	300	S14S		10	A	25000
MIG.	4	43514839	RL-RAL2 60 DIM 827/0	7.0	470	29	500	S14S		10	A	25000
MIG.	4	42614837	RL-RAL2 120 DIM 827/0	15.0	1055	29	1000	S14S		5	A	25000

1

3

2

4

MADE IN GERMANY.

— 3 — YEARS GUARANTEE

RaLEDina Essence

			W	lm	d mm	l mm			Pcs.		h	
1	42614827	**RL-RAL1 35 827/0**	3.5	260	29	300	S14D		10	A+	15000	MIG.
2	42614831	**RL-RAL1 60 827/0**	6.0	470	29	500	S14D		10	A+	15000	MIG.
3	42614825	**RL-RAL2 35 827/0**	3.5	260	29	300	S14S		10	A+	15000	MIG.
4	42614829	**RL-RAL2 60 827/0**	6.0	470	29	500	S14S		10	A+	15000	MIG.

1

2

RaLEDina lamp holder

			COLOR	l mm	w mm	h mm		
1	ZLFA0945	**RAL1/Holder/S14D**	grey	82	46	34	S14D	
2	ZLFA1530	**RAL2/Holder/S14S**	white	67	36	36	S14S	

— 5 — YEARS GUARANTEE

LED Essence HRL EM

			W	lm	d mm	l mm			Pcs.		h
1	43618301	**RL-HRL50 840/E27**	16.0	2000	75	153	E27	○	6	A++	50000
2	43618302	**RL-HRL80 840/E27**	30.0	4000	75	170	E27	○	6	A++	50000
3	43618303	**RL-HRL125 840/E27**	46.0	6000	80	195	E27	○	6	A++	50000
3	43618304	**RL-HRL125 840/E40**	46.0	6000	80	204	E40	○	6	A++	50000
4	43618306	**RL-HRL250 840/E40**	95.0	13000	110	270	E40	○	6	A++	50000

1

2

LED Essence DUO G24d EM

			W	lm	d mm	l mm			Pcs.		h
1	43218902	**RL-DUO13 840/G24d-1 EM**	5.0	600	35	148	G24d-1	○	10	A++	30000
1	43018021	**RL-DUO18 840/G24d-2 EM**	7.0	700	35	148	G24d-2	○	10	A+	30000
2	43018022	**RL-DUO26 840/G24d-3 EM**	10.0	1000	35	171	G24d-3	○	10	A+	30000

1

2

LED Essence Long HF

			W	lm	d mm	l mm			Pcs.		h
1	43218815	**RL-LONG18 840/2G11 HF**	7.0	1000	38	223	2G11	○	10	A++	30000
2	43218816	**RL-LONG36 840/2G11 HF**	18.0	2300	38	407	2G11	○	10	A++	30000

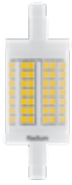
Operate only on approved ECGs according to Radium compatibility list www.radium.de/compatibility

1 2

— 5 — YEARS GUARANTEE

LED Star R7s

			W	lm	d mm	l mm			Pcs.		h
1	43518617	**RL-TSK100 DIM 827/R7S***	11.5	1521	29	78	R7s		20	A++	15000
2	43518616	**RL-TS125 DIM 827/R7S**	15.0	2000	28	118	R7s		20	A++	25000



1 2 3

— 4 — YEARS GUARANTEE

LED Essence R7s

			W	lm	d mm	l mm			Pcs.		h
1	43619246	**RL-TSK 60 827/R7S**	7.0	806	29	78	R7s		20	A++	15000
1	43619247	**RL-TSK 75 827/R7S**	8.0	1055	29	78	R7s		20	A++	15000
2	43619243	**RL-TS 100 827/R7S**	12.5	1521	29	118	R7s		20	A++	15000
3	43619245	**RL-TS 150 827/R7S***	17.5	2452	28	118	R7s		20	A++	15000

1

— 5 — YEARS GUARANTEE

LED Star PIN

			W	lm	d mm	l mm			Pcs.		h
1	43518677	**RL-PIN32 DIM 827/C/G9**	3.5	350	20	58	G9		20	A++	25000

1

2

3

— 4 — YEARS GUARANTEE

LED Essence PIN

			W	lm	d mm	l mm			Pcs.		h
1	43618557	**RL-PIN28 827/C/G4**	2.4	300	13	44	G4		20	A++	15000
2	43618552	**RL-PIN28 827/C/GY6.35**	2.4	300	13	57	GY6.35		20	A++	15000
3	43219457	**RL-PIN40 827/C/G9**	3.8	470	20	58	G9		20	A++	15000

1

3 YEARS GUARANTEE

LED Essence T26

			W	lm	d mm	l mm			Pcs.		h
1	43619109	**RL-T26 25 827/C/E14**	2.8	250	26	63	E14		20	A++	10000

Glass

1

4 YEARS GUARANTEE

LED Essence T26

			W	lm	d mm	l mm			Pcs.		h
1	43618614	**RL-T26 40 827/C/E14**	4.0	470	25	80	E14		20	A++	15000

Glass

Save more energy with Radium.
LED’s Save Calculator.

With so many LED products around, do you still know what’s what anymore? If not, don’t worry. With the LED’s Save Calculator, you will find the right LED replacement product in no time at all. And so that you can see whether the exchange is really worth it, you will get a result with energy costs and payback time. Let your savings potential surprise you today.
www.radium.de/en/leds-save

Important facts at a glance.
Technical information.

General information about LEDs

All technical parameters apply to the whole lamp. Due to the complex manufacturing process of light-emitting diodes, the values given for the technical LED parameters are purely statistical and do not necessarily correspond to the actual technical parameters of each individual product, which may differ from the typical value.

Dimming behavior

Due to different technological concepts, the dimming behavior of lamps with integrated control gears differs from the behavior of conventional incandescent or halogen lamps and may therefore be restricted in certain cases. Under unfavorable conditions (many possible influencing factors), the electronic components contained may develop noise. For more information about lamp dimmer compatibility, please go to www.radium.de/en/dim.

TIP: You can also control our lamps with your smartphone. Find more information at www.radium.de/en/smart-blue/ted

What's behind all this?
Explanation of pictograms.

Direct wiring

Suitable for operation on mains voltage. If the existing luminaire is not designed for this operating mode, the luminaire must be modified. In any case, we recommend to use the supplied LED starter and to clearly mark the lamp.

CCG

Suitable for operation with conventional control gear (CCG) as well as directly with mains voltage. For operation with a CCG, the existing starter must be replaced with the LED starter included in the delivery. We recommend removing the compensation capacitor.

ECG

Suitable for operation with an electronic control gear (ECG).
Compatibility must be checked in advance using the compatibility list.
www.radium.de/compatibility

Glass

True to original design with high-quality glass bulb

Shatter resistance

Shatter resistance according to IEC 61549 AMD 2:2010 -810-1 4.4.1

Guarantee

Radium LED lamps are known for high-quality engineering, professional thermal management, the use of high-quality components and the application of systematic quality assurance measures. Radium provides guarantees of up to 5 years on LED lamps which are operated in accordance with the product and application guidelines specified by Radium, e.g. data sheets, application notes or compatibility lists. www.radium.de/guarantee

Made in Germany

Many products within the Radium LED lamp portfolio are manufactured directly in Germany and therefore stand for particularly good quality.

Star

Optimum function for professional use. All Star models offer a longer service life and very good efficiency.

Essence

All Essence models offer pure functionality at the best price

- Power consumption (watts)
- Luminous flux (lumens)
- Dimensions in millimeters (mm)
- Base
- Color temperature
  - 2700/3000 K (warm white)
  - ~ 4000 K (neutral white)
  - ~ 6500 K (cool white)
- Shipping unit in pieces (pcs.)
- Energy label
- L70B50 Service life
- Color
- Ingress protection rating (IP)
- Beam angle
- Dimmable. For compatibility information, see page 45 (Dimming behavior).

Radium
Die Lichtmarke

Radium Lampenwerk GmbH
Dr.-Eugen-Kersting-Str. 6
51688 Wipperfürth
Germany

Phone +49 (0) 2267 811
Fax +49 (0) 2267 81353

radium@radium.de
www.radium.de

V1912