Radium

RaLED Flex

Flexible LED Modules and Drivers

Radium

Flexible Linear LED Modules and Drivers

Flexibility to Perfection

Linear lighting systems are state of the art technology for modern illumination concepts.
With our flexible linear LED modules and electronic drivers we will have the right product for
your lighting project.

Main Applications

- Architectural lighting
- Shop and retail
- Hotels, restaurants, bars
- Effective outdoor illumination
- Conference rooms, foyers, entrance halls

Targets

- „Endless" lines of light
- Adaption to field specific conditions
- Increase quality of lighting
- Replacement of fluorescent tubes and neon
- Save energy and maintenance costs

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			Im/m	W/m		l mm	w mm	SEU mm	LEDs/m	K	

1 RaLED Flex 400

W	Im	A°	IP	Pitch	EL E→A++
21	1 900	120°	20	16.7 mm	A+

			Im/m	W/m	l mm	w mm	SEU mm	LEDs/m	K	
4003556005532	**RL-FX 400 21W/827/5M**	RFXA0607	400	4.2	5 000	8.2	100	60	2 700	○
4003556005549	**RL-FX 400 21W/830/5M**	RFXA0608	400	4.2	5 000	8.2	100	60	3 000	○
4003556005556	**RL-FX 400 21W/840/5M**	RFXA0609	400	4.2	5 000	8.2	100	60	4 000	○
4003556005563	**RL-FX 400 21W/865/5M**	RFXA0610	400	4.2	5 000	8.2	100	60	6 500	○

1 RaLED Flex 900

W	Im	A°	IP	Pitch	EL E→A++
37	4 000	120°	20	16.7 mm	A+

			Im/m	W/m	l mm	w mm	SEU mm	LEDs/m	K	
4003556005600	**RL-FX 900 37W/827/5M**	RFXA0614	880	7.4	5 000	8.2	100	60	2 700	○
4003556005617	**RL-FX 900 37W/830/5M**	RFXA0615	880	7.4	5 000	8.2	100	60	3 000	○
4003556005624	**RL-FX 900 37W/840/5M**	RFXA0616	880	7.4	5 000	8.2	100	60	4 000	○
4003556005631	**RL-FX 900 37W/865/5M**	RFXA0617	880	7.4	5 000	8.2	100	60	6 500	○

	V	Ra	L70	SDCM
44	24 DC	≥80	20 000 h	≤4

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	lm/m	W/m	l mm	w mm	SEU mm	LEDs/m	K	

1 RaLED Flex 1400

W 52 | lm 6 000 | A° 120° | IP 20 | Pitch 14.3 mm | EL E→A++ A+

		lm/m	W/m	l mm	w mm	SEU mm	LEDs/m	K	
4003556005686	**RL-FX 1400 52W/827/5M** RFXA0622	1380	10.4	5 000	8.2	100	70	2 700	◯
4003556005693	**RL-FX 1400 52W/830/5M** RFXA0623	1380	10.4	5 000	8.2	100	70	3 000	◯
4003556005709	**RL-FX 1400 52W/840/5M** RFXA0624	1380	10.4	5 000	8.2	100	70	4 000	◯
4003556005716	**RL-FX 1400 52W/865/5M** RFXA0625	1380	10.4	5 000	8.2	100	70	6 500	◯

2 RaLED Flex RGB 200

W 27 | lm 900 | A° 120° | IP 20 | Pitch 16.7 mm

		lm/m	W/m	l mm	w mm	SEU mm	LEDs/m	K	
4003556005570	**RL-FX 200 27W/RGB/5M** RFXA0611	200	5.4	5 000	8.2	100	60	RGB	🔴

2 RaLED Flex RGB 300

W 36 | lm 1 400 | A° 120° | IP 20 | Pitch 13.3 mm

		lm/m	W/m	l mm	w mm	SEU mm	LEDs/m	K	
4003556005648	**RL-FX 300 36W/RGB/5M** RFXA0618	300	7.3	4 960	8.2	80	75	RGB	🔴

44	V 24 DC	Ra ≥80	L70 20 000 h	SDCM ≤4

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	$\frac{lm}{m}$	$\frac{W}{m}$			SEU	$\frac{LEDs}{m}$	K	
			l mm	w mm	mm			

1 RaLED Flex RGB 500

W	lm	A°		IP	Pitch
80	2 000	120	44	20	11.8 mm

4003556005723	**RL-FX 500 80W/RGB/5M**	RFXA0626	480	16	4 970	10.0	70	86	RGB	🔴🟢🔵

2 RaLED Flex Protected 400

W	lm	A°		IP	Pitch	EL E→A++
21	1 900	120	26	65	16.7 mm	A+

4003556005587	**RLP-FX 400 21W/830/5M/IP65**	RFPA0612	400	4.2	5 020	10.0	100	60	3 000	⬤
4003556005594	**RLP-FX 400 21W/840/5M/IP65**	RFPA0613	400	4.2	5 020	10.0	100	60	4 000	○

2 RaLED Flex Protected 900

W	lm	A°		IP	Pitch	EL E→A++
40	4 000	120	26	65	16.7 mm	A+

4003556005655	**RLP-FX 900 40W/830/5M/IP65**	RFPA0619	880	8.0	5 020	10.0	100	60	3 000	⬤
4003556005662	**RLP-FX 900 40W/840/5M/IP65**	RFPA0620	880	8.0	5 020	10.0	100	60	4 000	○

V	Ra	L70	SDCM
24 DC	≥80	20 000 h	≤4

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		Im m	W m	l mm	w mm	SEU mm	LEDs m	K	

1 RaLED Flex Protected 1400

W	Im	A°	IP	Pitch	EL E→A++
54	6 000	120°	65	14.3 mm	A+

			Im/m	W/m	l mm	w mm	SEU mm	LEDs/m	K	
4003556005730	**RLP-FX 1400 54W/830/5M/IP65**	RFPA0627	1 380	10.8	5 020	10.0	100	70	3 000	◯
4003556005747	**RLP-FX 1400 54W/840/5M/IP65**	RFPA0628	1 380	10.8	5 020	10.0	100	70	4 000	◯
4003556005754	**RLP-FX 1400 54W/865/5M/IP65**	RFPA0629	1 380	10.8	5 020	10.0	100	70	6 500	◯

2 RaLED Flex Protected RGB 300

W	Im	A°	IP	Pitch
47	1 400	120°	65	13.3 mm

			Im/m	W/m	l mm	w mm	SEU mm	LEDs/m	K	
4003556005679	**RLP-FX 300 47W/RGB/5M/IP65**	RFPA0637	300	9.4	4 980	10.0	80	75	RGB	◉

	V	Ra	L70	SDCM
26	24 DC	≥80	20 000 h	≤4

Radium

Constant Voltage
LED Drivers

RaLED Driver

Product Properties & Advantages:

- Preferred control gear for RaLED Flex modules
- Versatile scope of application due to output power range of up to 120 W
- High safety by overload and short circuit protection
- Integrated strain relief

Range of Applications:

- Suitable for constant voltage 24V LED modules
- Suitable for indoor SELV installations
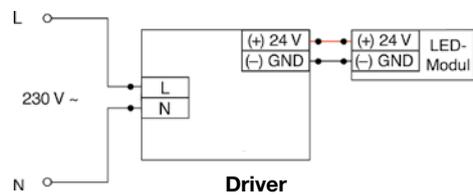- Installation in suspended ceilings possible

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RaLED Driver

IP 20   V OUT 24 DC

			W	V IN	Hz	l mm	w mm	h mm	°C Tc	°C Ta	
1	4003556005761	**RL-Driver 30W/220-240/24V IP20** OTNA1753	30	220-240	50/60	153	41	32	80	-20...45	20
2	4003556005778	**RL-Driver 60W/220-240/24V IP20** OTNA1754	60	220-240	50/60	180	52	30	80	-20...45	20
3	4003556005785	**RL-Driver 90W/220-240/24V IP20** OTNA1755	90	220-240	50/60	300	40	30	80	-20...45	20
3	4003556005792	**RL-Driver 120W/220-240/24V IP20** OTNA1756	120	220-240	50/60	300	40	30	80	-20...45	20

Technical Specifications

Electrical Notes

**RaLED Flex LED modules are not intended for operation at 230V AC current.
The modules require an LED voltage supply of 24V DC current.
You will find suitable drivers on page 8.**

By default, each module comes with a feed-in cable on every side. The cable lengths of the feed-in cable can be extended on site.

Driver

Cooling

**The RaLED Flex and RaLED Flex Protected products of the models '1 400', 'RGB 300' and 'RGB 500' must not be operated without any heat sink.
If the modules are not operated with approved Radium accessories, Radium will not accept any liabilities or warranty.**

Length of cables

**The distances between LED modules and their drivers must not exceed certain lenghts. The maximum cable lengths depend on the used devices and can be found in the technical data sheets of the drivers.
Long cable lengths and high currents require adequately large wire cross sections.**

IP Protection class

To protect our RaLED Flex Protected Modules against environmental conditions, they are coated with a silicon-tube and sealed at both ends.

The IP protection class states the aptitude of electrical equipment regarding different environmental conditions.

Protection against partcles / dust	Protection against water / humidity
0 Not protected	0 Not protected
1 Protection against objects ≥50mm diameter	1 Protected against dripping water
2 Protection against objects ≥12.5mm diameter	2 Protected against dripping water with suitable housing
3 Protection against objects ≥2.5mm diameter	3 Protected against spraying water
4 Protection against objects ≥1mm diameter	4 Protected against splashing water
5 Dust protected	5 Protected against water jets
6 Dust tight	6 Protected against powerful water jets
	7 Protected against immersion
	8 Protected against permanent immersion

Mounting

All RaLED Flex products come with two-sided adhesive tape by 3M.

After removing the protective foil, the LED module can be stuck on clean and plane surfaces.

Please note, that the surface must be free from grease, oil, silicone and any dirt. Optionally, the modules can be directly built into suitable aluminum profiles.

SEU

SEU

The SEU (shortest ejectable unit) is a distance defined as the smallest separable unit of the particular module. The possible operational lengths depend on the maximal operational length and the SEU. The LED module may only be cut at the designated points.

Pitch

Pitch

The pitch is defined as the distance between each SMD LED. The smaller the pitch, the closer the SMD LEDs are arranged.

CRI

Ra

The colour rendering index Ra (CRI) is a characteristic number of a photometric unit, which describes the quality of a light source with same correlated colour temperature.
All RaLED Flex modules have a minimum CRI of 80.