

Radium

Technical information

LED T8 NEO 18

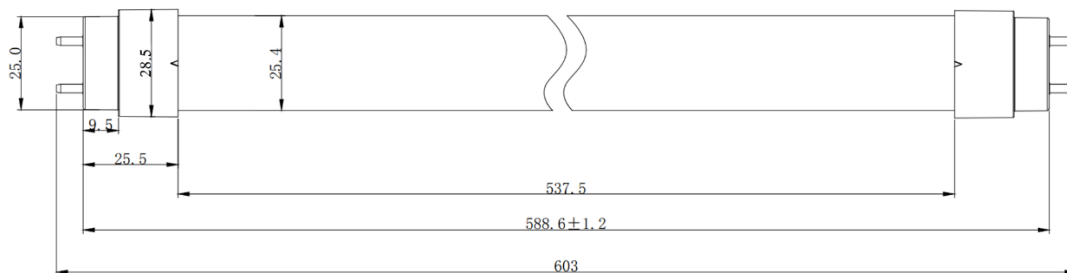
LED T8 Neo Tube for the replacement of 18W T8 fluorescent lamps and operation on constant current LED drivers. Not suitable for operation on ECGs, CCGs or mains voltage. The tube is made of frosted glass and has shatter protection. Variable luminous flux (up to 1.875lm) which depends on the current. The LED T8 Neo is polarity neutral and has a lifetime of 70,000h L80B10. Dimmable when using a dimmable LED driver.

Compatible Radium LED Drivers:

- OTDA4030 DRIVER DALI 15W/100-350mA IP20
- OTNA4033 DRIVER 15W/350mA IP20



Drawing



Technical Data

General data

Code	LED T8 NEO 18 840/G13	LED T8 NEO 18 865/G13
Article No.	43719848	43719849
EAN10	4008597198489	4008597198496
EAN40	4008597498480	4008597498497
Weight [g]	90 g	90 g
Length [mm]	603 mm	603 mm
Diameter Base [mm]	28.5 mm	28.5 mm
Diameter Tube [mm]	25.4 mm	25.4 mm
Service life L80/B10 @Ta(max.)	70,000 h	70,000 h
Servie life L70/B10 @Ta(max.)	100,000 h	100,000 h
Energylabel A to G	C	D
Guarantee	5 years	5 years
LED	SMD 2835 60mA	SMD 2835 60mA

Operating conditions

Permissible ambient temperature Ta [°C]	-20°C...+50°C	-20°C...+50°C
Permissible storage temperature [°C]	-20°C...+60°C	-20°C...+60°C
Permissible Tc temperature [°C]	-20°C...+65°C	-20°C...+65°C
Max. permissible Tc temperature [°C]	+70°C	+70°C
Degree of protection (IP)	IP20	IP20
Operating mode	LED-Driver, constant current, DC	LED-Driver, constant current, DC

Electrical Parameter

Rated power* [W]	6,9 W	6,9 W
Voltage [V DC]	18,5 – 20,5 V	18,5 – 20,5 V

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Information no. 9901-01-2112

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Operating current [mA]	350 mA	350 mA
Permissible output current [mA]	200 - 550 mA	200 - 550 mA
Dimmable	yes	yes
Energy consumption in 10.000h* [kWh]	7 kWh	7 kWh
Operable number with one OTDA4030	1 – 2 pcs	1 – 2 pcs
Operable number with one OTNA4033	2 pcs	2 pcs
Operable number with one OTDA4031	4 pcs	4 pcs
Operable number with one OTNA4034	4 pcs	4 pcs

* @350mA

Photometric Parameter

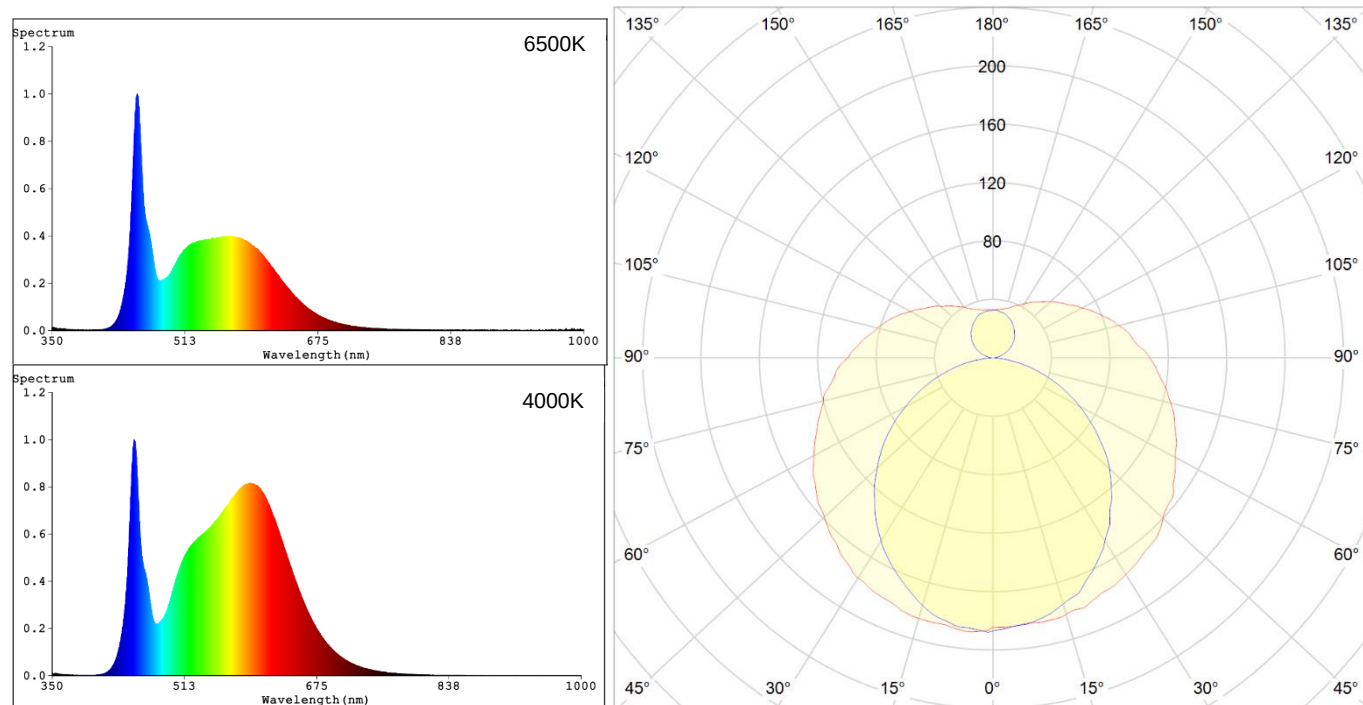
Rated luminous flux* [lm]	1215 lm	1170 lm
Beam angle [°]	160 °	160 °
Luminous efficiency * [lm/W]	176 lm/W	170 lm/W
Color temperature [K]	4000 K	6500K
Color rendering index [CRI]	≥ 80	≥ 80
Color stability	≤ 5 SDCM	≤ 5 SDCM
Color stability typical	3 SDCM	3 SDCM

* @350mA

Operating current table

Operating current	Voltage	Power	Luminous efficacy 4000K	Luminous flux 4000K	Luminous efficacy 6500K	Luminous flux 6500K
550 mA	20,0 V	11,0 W	170 lm/W	1.875 lm	164 lm/W	1.800 lm
500 mA	19,9 V	10,0 W	172 lm/W	1.710 lm	165 lm/W	1.643 lm
450 mA	19,9 V	8,9 W	173 lm/W	1.545 lm	166 lm/W	1.485 lm
400 mA	19,8 V	7,9 W	174 lm/W	1.380 lm	168 lm/W	1.328 lm
350 mA	19,7 V	6,9 W	176 lm/W	1.215 lm	170 lm/W	1.170 lm
300 mA	19,5 V	5,9 W	179 lm/W	1.049 lm	172 lm/W	1.010 lm
250 mA	19,4 V	4,8 W	182 lm/W	882 lm	176 lm/W	850 lm
200 mA	19,2 V	3,8 W	186 lm/W	716 lm	180 lm/W	690 lm

Spectrum / Light distribution



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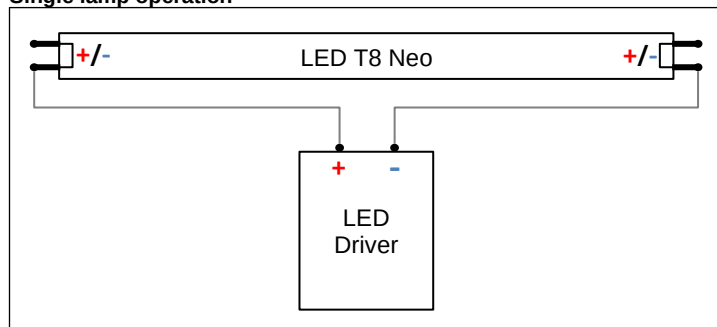
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Wiring diagram

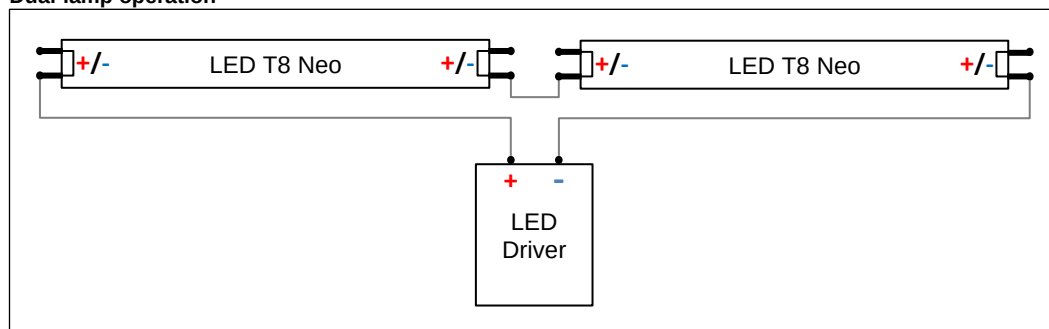
Single lamp operation



Recommended Radium LED-Driver:

- OTDA4030 DRIVER DALI 15W/100-350mA IP20

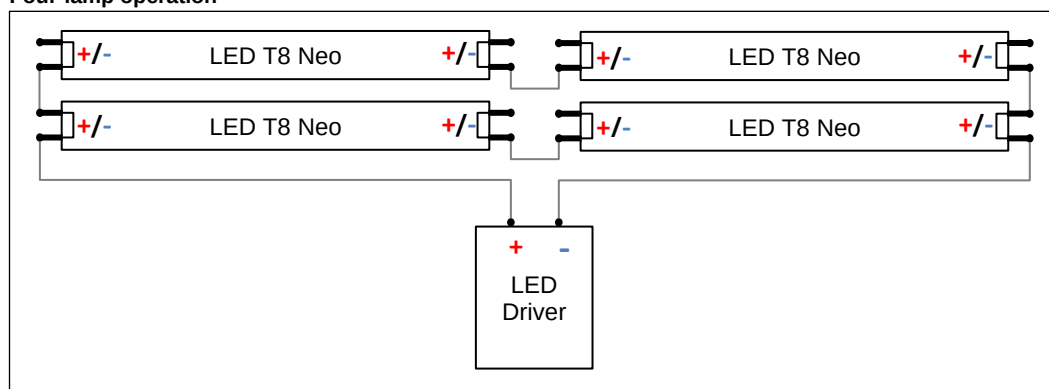
Dual-lamp operation



Recommended Radium LED-Driver:

- OTDA4030 DRIVER DALI 15W/100-350mA IP20
- OTNA4033 DRIVER 15W/350mA IP20

Four-lamp operation



Recommended Radium LED-Driver:

- OTDA4031 DRIVER DALI 30W/550-750mA IP20
- OTNA4034 DRIVER 30W/700mA IP20

Notes

- The LED T8 Neo Tube is polarity-neutral. To ensure the function, it is only necessary to make sure that one pole is connectet with each end of the tube. The contacts at the respective ends are bridged.
- Due to the splinter protection, the tube can also be used for the illumination of food production plants.
- The specified service life is also achieved at the highest permissible operating current.
- If the current exceeds the permissible operating current range, the warranty does not apply.

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