

Radium

Technical information

LED T8 NEO 58

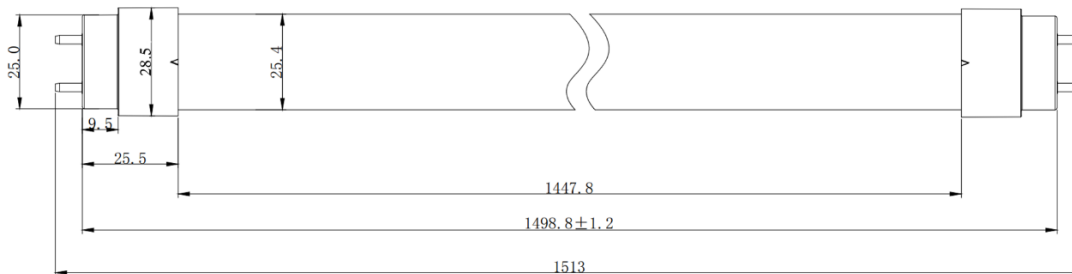
LED T8 Neo Tube for the replacement of 58W T8 fluorescent lamps and operation on constant current LED drivers. Not suitable for operation on ECGs, CCGs or mains voltage. The tube is made of frosted glass and has a shatter protection. Variable luminous flux (up to 5,180lm) which depends on the current. 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:

- OTDA4032 DRIVER DALI 60W/1100-1500mA IP20
- OTNA4035 DRIVER 50W/1200mA IP20



Drawing



Technical Data

General data

Code	LED T8 NEO 58 840/G13	LED T8 NEO 58 865/G13
Article No.	43719852	43719853
EAN10	4008597198526	4008597198533
EAN40	4008597498527	4008597498534
Weight [g]	200 g	200 g
Length [mm]	1513 mm	1513 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

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Information no. 9903-01-2112

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Rated power* [W]	24,3 W	24,3 W
Voltage [V DC]	19,5 - 21,5 V	19,5 - 21,5 V
Operating current [mA]	1200 mA	1200 mA
Permissible output current [mA]	1000 - 1500 mA	1000 - 1500 mA
Dimmable	yes	yes
Energy consumption in 10.000h* [kWh]	25 kWh	25 kWh
Operable number with one OTDA4032	1 – 2 pcs	1 – 2 pcs
Operable number with one OTNA4035	2 pcs	2 pcs

* @1200mA

Photometric Parameter

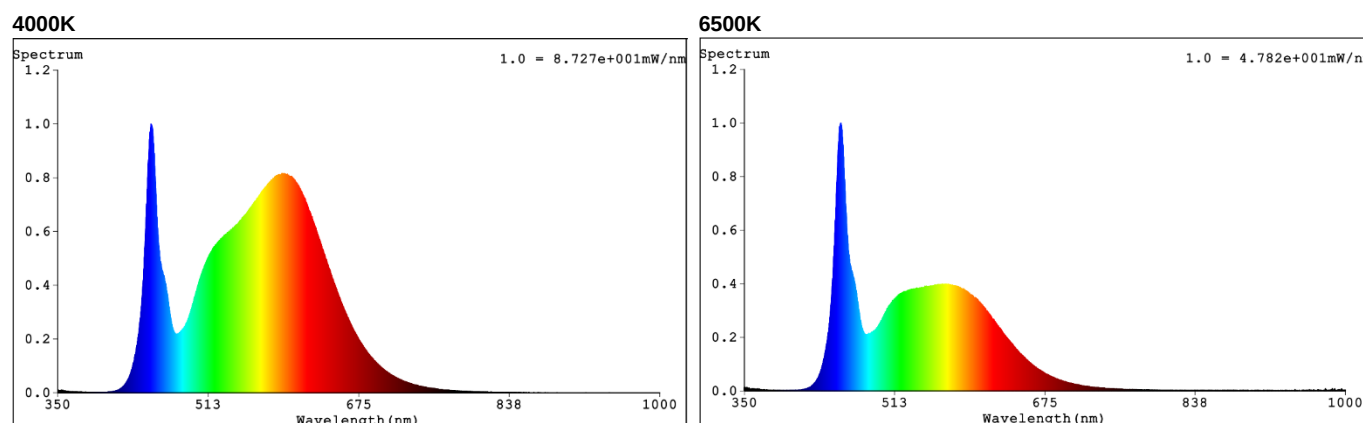
Rated luminous flux* [lm]	4.200 lm	4.000 lm
Beam angle [°]	160 °	160 °
Luminous efficiency * [lm/W]	173 lm/W	165 lm/W
Color temperature [K]	4000 K	6500 K
Color rendering index [CRI]	≥ 80	≥ 80
Color stability	≤ 5 SDCM	≤ 5 SDCM
Color stability typical	3 SDCM	3 SDCM

* @1200mA

Operating current table

Operating current	Voltage	Power	Luminous efficacy 4000K	Luminous flux 4000K	Luminous efficacy 6500K	Luminous flux 6500K
1.500 mA	20,5 V	30,8 W	168 lm/W	5.180 lm	160 lm/W	4.925 lm
1.450 mA	20,5 V	29,7 W	169 lm/W	5.017 lm	161 lm/W	4.771 lm
1.400 mA	20,4 V	28,6 W	170 lm/W	4.853 lm	161 lm/W	4.617 lm
1.350 mA	20,4 V	27,5 W	170 lm/W	4.690 lm	162 lm/W	4.463 lm
1.300 mA	20,3 V	26,5 W	171 lm/W	4.527 lm	163 lm/W	4.308 lm
1.250 mA	20,3 V	25,4 W	172 lm/W	4.363 lm	164 lm/W	4.154 lm
1.200 mA	20,3 V	24,3 W	173 lm/W	4.200 lm	165 lm/W	4.000 lm
1.150 mA	20,2 V	23,2 W	174 lm/W	4.038 lm	166 lm/W	3.848 lm
1.100 mA	20,1 V	22,1 W	175 lm/W	3.875 lm	167 lm/W	3.695 lm
1.050 mA	20,0 V	21,0 W	176 lm/W	3.713 lm	168 lm/W	3.543 lm
1.000 mA	20,0 V	20,0 W	178 lm/W	3.550 lm	170 lm/W	3.390 lm

Spectrum / Light distribution



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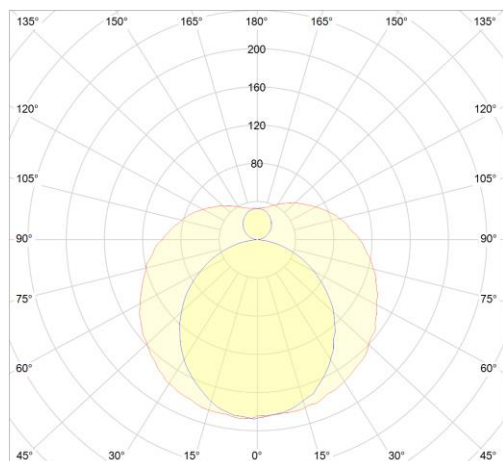
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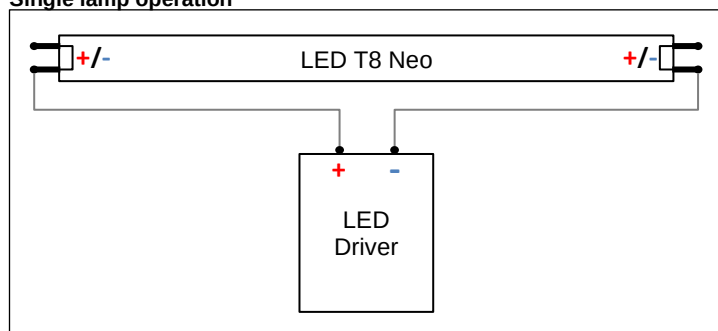
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Wiring diagram

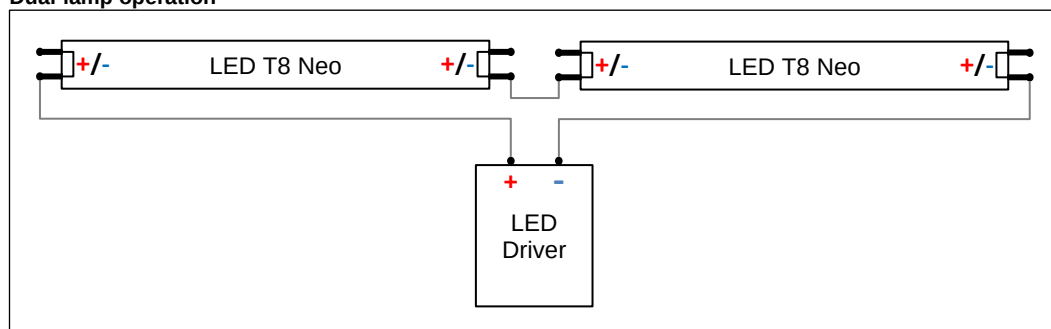
Single lamp operation



Recommended Radium LED-Driver:

- OTDA4032 DRIVER DALI 60W/1100-1500mA IP20

Dual-lamp operation



Recommended Radium LED-Driver:

- OTDA4032 DRIVER DALI 60W/1100-1500mA IP20
- OTNA4035 DRIVER 50W/1200mA 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 connected 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.
- Bei einer Bestromung, die über die zulässigen Betriebsstrombereich hinaus geht entfällt, die Gewährleistung.

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