



LINEAR/GAMMA



NEW

- Inrush current = 2A - optional



150 kGy
GAMMA DOSE

GENERAL:

Luminosnuclear® LINEAR/GAMMA LED Lights are in category with the most efficient LED products. They are developed and produced by the company NANOCUT co.ltd. in Slovenia, EU. The LED panels are of our own design with efficiency of 210 - 220 lm/W. By using high quality components throughout the whole light, we achieve overall efficiency of over 160 lm/W.

Housing is from aluminium, colored with quality UV resistant powder coatings. The montage system and end caps of the lights are made from stainless steel. The LED DRIVER is also of our own design and is the key component of Radiation Resistant LED Lights. It is encapsulated in a stainless steel box with neutron absorbing and shielding material.

GAMMA RADIATION TESTING

GAMMA dose speed	3,3 kGy/h
Total GAMMA dose	156 kGy

RESISTANCE ON GAMMA RADIATION:

The complete LED light was tested up to a GAMMA dose of 156 kGy at GAMMA dose speed 3,3 kGy/h. At the end of testing, the LED light was still working properly. Exposure to GAMMA radiation was tested in ENEA - Italian National Agency for New Technologies, Energy and Economic Development.

TECHNICAL DATA

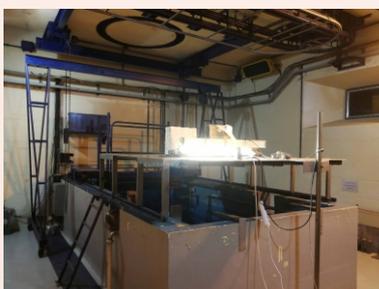
Type	LED Linear Light
Nominal power	10 - 60 W
Overall luminous flux	6.400 lm (at 40W)
Overall light efficiency	> 160 lm/W (at 4000K(80))
CCT	3000K-6000 K
Ra	> 70 - 90
Nominal AC voltage	AC 230V ^{+20%} / _{-10%} , 50Hz
El. Consumption	40 kWh/1000h(at 40 W)
Min working voltage	AC 24V, DC 35V
Max survival voltage	AC 360V, DC 510V
Power factor (cos fi)	> 0,9
Inrush current	16A max. / 0,05 ms
Housing	extruded aluminium
Optic [°]	15,30,45,60,90,120,ASIM
Diffuser	PMMA
IP protection	IP 65
IK protection	IK 07
Ambient temperature	-20 to +50 °C
Weight	1,6 - 4,5 kg
Lifetime (L80/B10)	70.000 h
Energy efficiency	A++, EEI<0,1
Warranty	5 years
Certificate	CE

MODELS AND POWER

Model	El. Power	Luminous Flux	Overall Dimensions	Mounting System
LN-LIN40/G	10-20 W	160 lm/W	380x95x105 mm	Adjustable by the length of the light and angle
LN-LIN75/G	20-40 W	160 lm/W	755x95x105 mm	
LN-LIN100/G	40-60 W	160 lm/W	1030x95x105 mm	

Rated Luminous Flux is at 4000K and Ra 80

COMPLETE LED LIGHT GAMMA RESISTANCE TESTING IN ENEA



Our lights can be used in:

- Military areas,
- Nuclear Power Plants,
- Containment building in Nuclear PP,
- Medical facilities,
- Nuclear testing facilities,
- WMB (waste management building),
- SFDS (spent fuel dry storage area),
- LILRW (low and intermediate level radioactive waste building),
- Fusion Reactors,
- NEUTRON and PROTON accelerators,
- INDUSTRIAL radiography detection areas.

OPTIONS ON CUSTOMERS REQUEST:

- NOMINAL AC VOLTAGE 120V 60Hz for US market,
- DIFFERENT NOMINAL AC OR DC VOLTAGE,
- CUSTOMISED MOUNTING SYSTEM,
- LOWER INRUSH CURRENT (2A / 0,1ms).

TESTED ON GAMMA RADIATION BY:

ENEA

EMC, SAFETY TEST ON CE-EN NORMS BY:



DEVELOPED AND MANUFACTURED BY:

NANOCUT d.o.o.

LED LIGHTING

ORDERING CODE

LN-LINxxx/G-xxW-xxxxK(xx)-Rxxx- x - (D150kGy)

LUMINOS NUCLEAR	LINEAR40/GAMMA LINEAR75/GAMMA LINEAR100/GAMMA	EL. POWER [W] 10, 20, 30, 40, 50 or 60	CCT [K] 3000, 3500, 4000, 4500, 5000, 5500 or 6000	CRI > 70,80 or 90	DISTRIBUTION ANGLE [°] 15, 30, 45, 60, 90, 120 or ASIM	COVER C - clear M - matt	GAMMA RESISTANCE max. GAMMA DOSE 150 kGy
-----------------	---	---	--	----------------------	--	--------------------------------	---



WARRANTY: 5 YEARS
LIFETIME : > 20 YEARS

NANOCUT d.o.o. | LED LIGHTING

Ulica prvoborcev 1a, 1430 Hrastnik, Slovenia, Europe
Contact: +386 40 836 214, e-mail: info@luminos-nuclear.com

Copyright © NANOCUT
rev. 3 - 03/2026