



RADIATION HARDENED LED LIGHT



LINEAR/GAMMA

15 kGy
GAMMA DOSE

GENERAL:

Luminosnuclear® LINEAR/GAMMA HIGH TEMP LED lamp is in category with the most efficient LED luminaires. LED luminaire Luminosnuclear® is developed and produced by company NANOCUT co.ltd. from Slovenia, EU. LED luminaires are very efficient because of the usage of the most advanced LED chips (up to 220 lm/W) and other high quality components. Housing is from aluminum, colored with quality UV resistant powder coatings. LED DRIVER is of our company design and is the key component for Radiation hardened LED Light.

MODELS AND POWER

Model	El. Power	Luminous Flux	Dimension
LA-LIN40/G	10-20 W	155 lm/W	380x95x52 mm
LA-LIN75/G	20-40 W	155 lm/W	755x95x52 mm
LA-LIN100/G	40-60 W	155 lm/W	1030x95x52 mm

Rated Luminous Flux is at 4000K and Ra80

OPTION ON CUSTOMERS REQUEST:

- STAINLESS STEEL HOUSING for INSIDE CONTAINMENT BUILDING,
- NOMINAL AC VOLTAGE 120V 60Hz for US market,
- AC VOLTAGE CONNECTION ON REQUEST,
- MOUNTING SYSTEM ON REQUEST.

TECHNICAL DATA	
Type	LED linear luminaire
Nominal power	10 - 60 W
Overall luminous flux	7.800 lm (at 50W)
Overall luminaire efficiency	< 155 lm/W (at 4000K(80))
CCT	3000K-5000 K
CRI	> 70 - 90
Nominal AC voltage	AC 230V ^{+20%} _{-10%} , 50Hz
El. Consumption	50 kWh/1000h(at 50 W)
Min working voltage	AC 20V, DC 24V
Max survival voltage	AC 360V, DC 510V
Power factor (cos fi)	up to 0,9
Starting current	35A max. / 5µs
Housing	extruded aluminium
Optic	20,30,60,90,ASIM deg
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)	50.000 h
Energy efficiency	A++, EEI<0,1
Warranty	5 years
Certificate	CE

GAMMA RADIATION

GAMMA dose speed	100 - 600 Gy/h
Total GAMMA dose	≤ 15 kGy

RESISTANCE ON GAMMA RADIATION:

All these components can survive up to GAMMA dose 15 kGy at GAMMA dose speed from 100 - 600 Gy/h. Exposure to GAMMA radiation was tested in TRIGA reactor in Institute "Jožef Stefan" in Podgorica (Ljubljana - Slovenia, Europe).

TESTED ON GAMMA RADIATION BY:

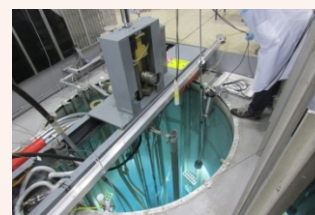
INSTITUTE "JOŽEF STEFAN"

EMC, SAFETY TEST ON CE-EN NORM BY:



DEVELOPED AND MANUFACTURED BY:
NANOCUT d.o.o.
LED LIGHTING

LED POWER SUPPLY
GAMMA RESISTANCE TESTING



Luminaires 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 area.

ORDERING CODE

LN-LINxxx/G-xxW-xxxxK(xx)-Rxxx- x -(D15kGy)

LUMINOS
NUCLEAR

LINEAR40/GAMMA
LINEAR75/GAMMA
LINEAR100/GAMMA

EL. POWER [W]
10-20
20-40
40-60

CCT [K]
3000-5000

CRI >
70,80,90

DISTRIBUTION
ANGLE
20,30,60,90,ASIM

COVER
C - clear
M - matt

GAMMA RESISTANCE
max. GAMMA DOSE 15 kGy



WARANTY: 5 YEARS
LIFETIME : > 20 YEARS