



RADIATION HARDENED LED LIGHT



FLAT LINE/GAMMA



15 kGy
GAMMA DOSE

GENERAL:

Luminosnuclear® FLAT LINE/GAMMA LED reflector 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 180 lm/W) and other high quality components. Housing is from aluminum, colored with quality powder coatings. LED DRIVER is of our own design and is the key component for Radiation hardened LED Light.

TECHNICAL DATA	
Type	LED flat linear luminaire
Nominal power	20 - 65 W
Overall luminous flux	8.775 lm (at 65W)
Overall luminaire efficiency	< 135 lm/W
CCT	3000K-5000 K
CRI	> 70 - 90
Nominal AC voltage	AC 230V ^{+20%} _{-10%} , 50Hz
El. Consumption	65 kWh/1000h(at 65 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	30-120 deg
Diffuser	PMMA
IP protection	IP 65
IK protection	IK 07
Ambient temperature	-20 to +60 °C
Weight	1,9 - 3,6 kg
Lifetime (L80/B10)	100.000 h
Energy efficiency	A++, EEI<0,1
Warranty	7 years
Certificate	CE

MODELS AND POWER

Model	El. Power	Luminous Flux	Dimension
LA-FL50/G	20-30 W	135 lm/W	515x120x34 mm
LA-FL100/G	45-65 W	135 lm/W	1030x120x34 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,
- HOUSING COLOUR ON REQUEST.

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. Exponion to GAMMA radiation was tested in TRIGA reactor in Institute "Jožef Stefan" in Podgorica (Ljubljana - Slovenia, Europe).

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

TESTED ON GAMMA
RADIATION BY:
**INSTITUTE
"JOŽEF STEFAN"**

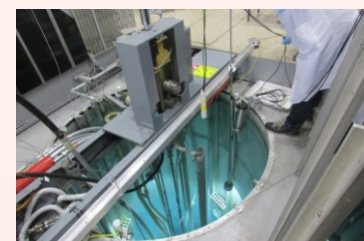
EMC, SAFETY TEST ON
CE-EN NORM BY:



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.

LED POWER SUPPLY
GAMMA RESISTANCE TESTING



BOTTOM VIEW R60



ORDERING CODE

LN-FLxxx/G-xxW-xxxxK(xx)-Rxx/xx- x -(D15kGy)

LUMINOS
NUCLEAR

FLAT LINE50/GAMMA
FLAT LINE100/GAMMA

EL. POWER [W]
20,30,45,65

CCT [K]
3000-5000

CRI >
70,80,90

DISTRIBUTION ANGLE
10/60, 30,
60, 60/120, 120

COVER
C - clear
M - matt

GAMMA RESISTANCE
max. GAMMA DOSE 15 kGy



**WARANTY: 7 YEARS
LIFETIME : > 20 YEARS**