RADIATION HARDENED LED LIGHT

STR/GAMMA

HIGH EFFICIENCY LED REFLECTOR

15 kGy
GAMMA DOSE

GENERAL:

Luminosnuclear® LED STR/GAMMA is in category with the most efficient LED luminaires. LED luminaires Luminosnuclear® are 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), LED drivers 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.

APPLICATION:

LED luminares STR/GAMMA can be mounted inside or outside on towers up to 30 m high.

TECHNICAL DATA	
Type	LED reflector
Nominal power	135 W
Overall luminous flux	18225 lm
Overall luminaire efficiacy	< 135 lm/W
CCT	3000K-5000 K
CRI	> 70 - 90
Nominal AC voltage	AC 230V $^{+20\%}_{-10\%}$, 50Hz
El. Consumption	135 kWh/1000h(at 135 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	30-60 deg
Diffuser	PMMA
IP protection	IP 65
IK protection	IK 07
Ambient temparature	-20 to +60 °C
Weight	13,2 kg
Lifetime (L80/B10)	100.000 h
Energy efficiacy	A++, EEI<0,1
Warranty	7 years
Certificate	CE

OPTIC R60/120

MODEL AND POWER			
Model	El. Power	Luminous Flux	Dimension
LA-STR/G-135W	135 W	18225 lm	550x315x63 mm

Rated Luminous Flux is at 4000K and Ra80

OPTION ON CUSTOMERS REQUEST:
- STANDARD LED DRIVER,
- 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

RESSISTANCE ON GAMMA RADIATION:

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

ORDERING CODE

LN-STR/G-135W-xxxxK(xx)-Rxx/xx

LUMINOS NUCLEAR	STR/GAMMA	EL. POWER [W] 135	COLOR [K] 3000-6000	Ra > 80,90,95	DISTRIBUTION ANGLE 10/60, 30, 60, 60/120

Luminaires can be used in:
- Military areas,
- Nuclear Power Plants,
- NEUTRON and PROTON accelerators
- 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,
- INDUSTRIAL radiography detection area.

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:
SIQ

WARANTY: 7 YEARS
LIFETIME : > 20YEARS