



# STR/GAMMA HIGH EFFICIENCY LED REFLECTOR



### NEW

- Inrush current = 2A - optional



150 kGy  
GAMMA DOSE

#### GENERAL:

Luminosnuclear® STR/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 systems 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

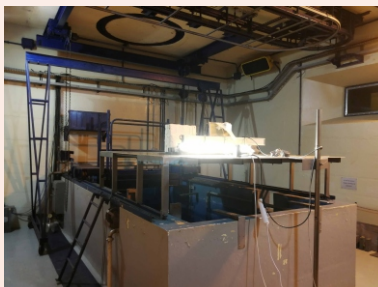
Type	LED Reflector STR
Nominal power	135 W
Overall luminous flux	21.600 lm (at 135W)
Overall light efficiency	> 160 lm/W (at 4000K(80))
CCT	3000K-6000 K
Ra	> 70 - 90
Nominal AC voltage	AC 230V <sup>+20%</sup> <sub>-10%</sub> , 50Hz
El. Consumption	135 kWh/1000h(at 135 W)
Min working voltage	AC 24V, DC 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	13,2 kg
Lifetime (L80/B10)	70.000 h
Energy efficiency	A++, EEI<0,1
Warranty	5 years
Certificate	CE, RoHS, SIQ, ENEA

#### MODELS AND POWER

Model	El. Power	Luminous Flux	Overall Dimensions	Mounting System
LN-STR/G-135W	135 W	160 lm/W	570x315x63 mm	U Bracket Size: 560x200 mm

Rated Luminous Flux is at 4000K and Ra 80

#### COMPLETE LED LIGHT GAMMA RESISTANCE TESTING IN ENEA



#### 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)

Seismic tested on  
IEC 60980-344

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-STR/G-135W-xxxxK(xx)-Rxx/xx-(D150kGy)

LUMINOS NUCLEAR	STR/GAMMA	EL. POWER [W] 135	CCT [K] 3000, 3500, 4000, 4500, 5000, 5500, 6000	CRI > 70,80,90	DISTRIBUTION ANGLE [°] 15, 30, 45, 60, 90, 120, ASIM	GAMMA RESISTANCE max. GAMMA DOSE 150 kGy
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**WARRANTY: 5 YEARS**  
**LIFETIME : > 20 YEARS**

NANOCUT d.o.o. | LED LIGHTING

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