



# STADIUM REFLECTOR/GAMMA



**NEW**

- Inrush current = 2A - optional



**150 kGy  
GAMMA DOSE**

### GENERAL:

Luminosnuclear® STADIUM REFLECTOR/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

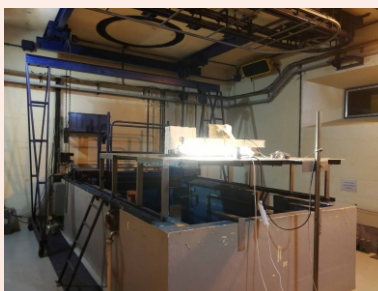
Type	LED Stadium Reflector
Nominal power	80 - 240 W
Overall luminous flux	22.400 lm (at 140W)
Overall light efficiency	> 160 lm/W (at 4000K(80))
CCT	3000K-6000 K
Ra	> 70 - 90
Nominal AC voltage	AC 230V <sup>+20%</sup> <sub>-10%</sub> , 50Hz
El. Consumption	140 kWh/1000h(at 140 W)
Min working voltage	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	4,1 - 7,9 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 Without bracket	Mounting System
LN-SR3030/G	80-130 W	160 lm/W	310x315x140 mm	a. U bracket Size: 320x225 mm. b. Hanging between: 310mm
LN-SR3060/G	140-240 W	160 lm/W	620x315x140 mm	a. U bracket Size: 630x225 mm. b. Hanging between: 620 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.

### ORDERING CODE

**LN-SRxxxx/G-xxW-xxxxK(xx)-Rxx/xx- x - (D150kGy)**

LUMINOS NUCLEAR	STADIUM REF3030/GAMMA STADIUM REF3060/GAMMA	EL. POWER [W] 80, 130, 140, 200, 240	CCT [K] 3000, 3500, 4000, 4500, 5000, 5500, 6000	CRI > 70,80,90	DISTRIBUTION ANGLE [°] 15, 30, 45, 60, 90, 120, ASIM	COVER C - clear M - matt	GAMMA RESISTANCE max. GAMMA DOSE 150 kGy
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### 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



**WARRANTY: 5 YEARS  
LIFETIME : > 20 YEARS**