Luminosnuclear®

RADIATION RESISTANT LED LIGHT

STAINLESS STEEL HIGH BAY REFLECTOR

NEW

- Inrush current = 2A - optional

150 kGy
GAMMA DOSE

GENERAL:

Luminosnuclear® HIGH BAY/GAMMA LED Reflectors 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.
The entire light is 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.
Exposion to GAMMA radiation was tested in ENEA - Italian National Agency for New Tehnologies, Energy and Economic Development.

TECHNICAL DATA

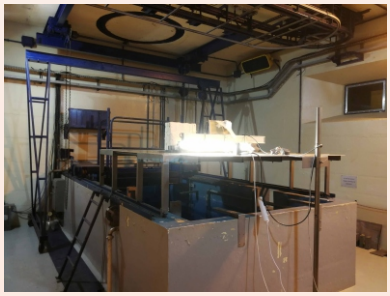
Type	High bay LED reflector
Nominal power	35, 70 W
Overall luminous flux	5.600 lm (at 35W)
Overall luminaire efficiacy	> 160 lm/W (at 4000K(80))
CCT	3000K-6000 K
CRI	> 70 - 90
Nominal AC voltage	AC 230V $^{+10\%}_{-20\%}$, 50Hz
El. Consumption	35 kWh/1000h (at 35 W)
Min. working voltage	AC 24V, DC 35V
Max. survival voltage	AC 360V, DC 510V
Power factor (cos fi)	> 0,90
Inrush current	16A max. / 0,05 ms
Housing	Stainless steel
Optic [°]	15,30,45,60,90,120,ASIM
Diffuser	PMMA
IP protection	IP 65
IK protection	IK 07
Ambient temparature	-20 to +60 °C
Weight	4.2, 7.9
Lifetime (L80/B10)	100.000 h
Energy efficiency	A++, EEI<0,1
Warranty	5 years
Certificate	CE

MODELS AND POWER

Model	El. Power	Luminous Flux	Overall Dimensions	Mounting System
LN-SS/HB2035/G	35 W	160 lm/W	213x342x80 mm	U Bracket Size: 193 x 195 mm
LN-SS/HB4035/G	70 W	160 lm/W	420x342x80 mm	U Bracket Size: 400 x 195mm

Rated Luminous Flux is at 4000K and Ra80

COMPLETE LED LIGHT GAMMA RESISTANCE TESTING IN ENEA



Our lights can be used in:

- Containment building in Nuclear PP (REACTOR BUILDING),
- Military areas,
- Nuclear Power Plants,
- Medical facilities,
- Nuclear testing facilities,
- WMB (waste management building),
- SFDS (spent fuel dry storage area),
- LILRW (low and intermediate level radiaoactive waste building),
- Fusion Reactors,
- NEUTRON and PROTON accelerators,
- INDUSTRIAL radiography detection areas.

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:
SIQ

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

ORDERING CODE

LN-SS/HBxxxx/G-xxW-xxxxK(xx)-Rxx/xx- x -(D150kGy)

LUMINOS NUCLEAR	STAINLESS STEEL HIGH-BAY REF2035/GAMMA or HIGH-BAY REF4035/GAMMA	EL. POWER [W] 35 or 70	CCT [K] 3000, 3500, 4000, 4500, 5000, 5500, or 6000	CRI > 70,80 or 90	DISTRIBUTION ANGLE 15,30,45,60,90, 120, 30/120 or ASIM	COVER C - clear M - matt	GAMMA RESISTANCE max. GAMMA DOSE 150 kGy

RoHS CE

WARRANTY: 5 YEARS
LIFETIME : > 20YEARS

NANOCUT d.o.o. | LED LIGHTING