# the N-Series



Nuclear Grade LED Luminaires Product Flyer - Preliminary

**PFN-0125** 



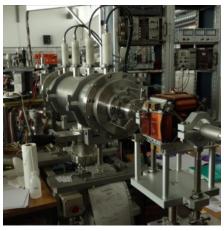


**Our technology** 

The **N-Series** is our latest addition to our wide portfolio of Nuclear grade LED Luminaires.

The **N-Series** is based on our most successful **H-Series**. Listening to the customers, some advanced features have been removed. The result is very affordable cost/performance optimized series of Nuclear Grade LED Luminaires.

The **N-Series** uses our standard, proprietary, ultra radiation resistant LED driver.



Your benefits

- Optimized cost/performance ratio, suitable for cost sensitive NPP projects.
- Best in class TID gamma resistance.
- "Linear-style" for low-power, low-bay applications.
- "Floodlight-style" for highpower, high-bay applications.
- Extremely robust, well protected against elements.
- Lightweight and easy to handle.



**Applications** 

The **N-Series** is constructed from high-quality stainless steel, ensuring durability, reliability and compliance with global NPP requirements.

They are specifically designed for typical nuclear power plant (NPP) applications within the reactor building, commonly referred to as "controlled areas" or "orange/red zones."

Our flagship **H-Series** has been cost/performance optimized. The result is our **N-Series**, most affordable high performance lighting solution for demanding NPP applications.



### True "all-in-one" solution

No external boxes are required outside the radiation zone, as the LED driver is seamlessly integrated into the luminaire itself.



## **Stainless Steel housing**

Designed for typical NPP applications. No glass, aluminum, zinc, PC, PMMA, coatings, screws or similar.

Products	N-150	N-50	N-30
Rated power:	150 W	50 W	30 W
Luminous flux:	> 24.000 lm	> 8.000 lm	> 4.800 lm
Overall efficacy:	> 160 lm/W	> 160 lm/W	> 160 lm/W
Standard optics type:	High-Bay	Low-Bay	Low-Bay
Dimensions (w/o holder):	550 x 370 x 110 mm	600 x 100 x 65 mm	350 x 100 x 65 mm
Net weight (luminaire only):	7.3 kg (16.1 lb)	3.0 kg (6.6 lb)	2.1 kg (4.6 lb)
Gross weight (packaged in the box):	8.6 kg (18.9 lb)	4.3 kg (9.5 lb)	3.4 kg (7.5 lb)
Common Properties			
Radiation tolerance TID gamma:	2 x 10 <sup>5</sup> Gy		
Neutron fluence 1MeV (Si):	5 x 10 <sup>13</sup> n/cm <sup>2</sup>		
Input voltage rating:	230V, 45 to 65 Hz		
Power factor:	> 0.9		
Appliance/protective class (IEC 61140):	Class I		
Installation class (IEC 61000-1-5):	Class 3, 1 kV L-N, 2 kV LN-PE		
CCT:	5000 K or 4000 K		
CRI:	> 80		
Ingress / Impact protection:	IP 66 / IK 08		
MTBF, MIL-217F N2, GB @ 50 °C:	> 3 x 10 <sup>6</sup> h, Predicted lifetime > 22 years @ 95 % confidence level		
Ambient temperature:	0 °C to 60 °C (32 °F to 140 °F)		
Driver location:	Internal, direct connection to the mains, no external boxes		
Housing / optics material:	Stainless Steel / Silicone		
Warranty:	5 years		
Certificates:	Radiation, CE, CB, FCC		

#### **Notes:**

- Custom holder and custom cable length are available on request.
- The Luminaires are designed for professional use only.

# get in touch with us:

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