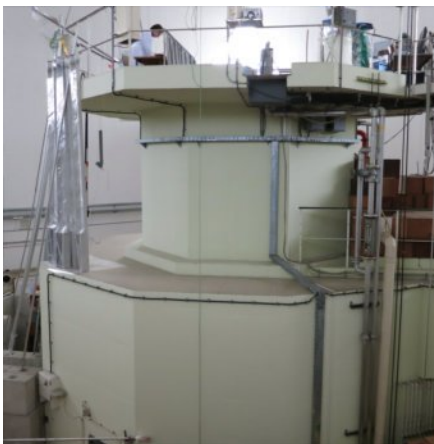


the L-Series

Nuclear Grade LED Luminaires Product Flyer



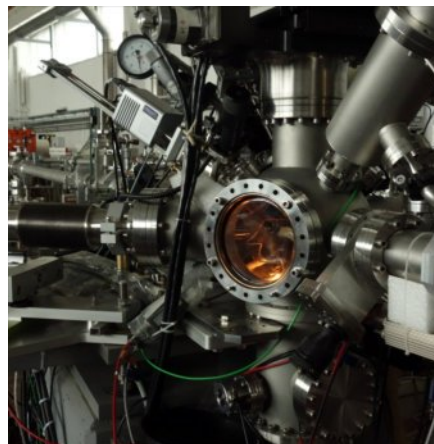
PFL-0425



Our technology

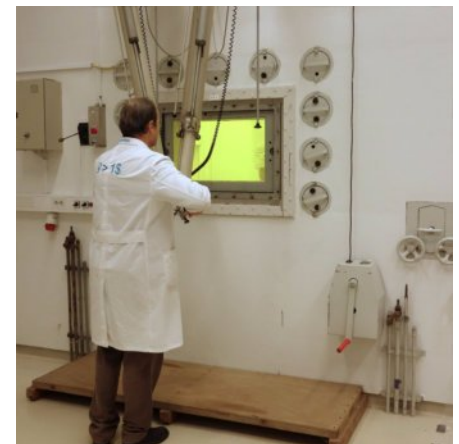
The **L-Series** represents our latest generation of high-radiation, high-temperature-resistant LED luminaires, tailored for cost-sensitive nuclear applications.

With upgraded and extended capabilities, the L-Series now boasts an increased Gamma Total Ionizing Dose (TID) resistance of 200 kGy, alongside improved thermal and photometric performance.



Your benefits

- Best cost/performance ratio.
- Suitable for cost sensitive nuclear projects.
- Best in class TID gamma resistance.
- Best thermal performance, designed for continuous operation,
- Small, compact, lightweight, easy to handle,
- Well protected against elements,
- Extremely robust and highly impact protected.



Applications

L-Series is constructed from high grade aluminium. The luminaires are designed for general nuclear applications, like lighting in:

- NPP machine halls,
- Scientific nuclear facilities,
- Hot Cells,
- Accelerators,
- Sterilization facilities,
- Spent fuel storage and processing facilities,
- Isotope production etc.

“ Our design goal has always been to deliver high-performance, nuclear-grade LED luminaires at an affordable price, making advanced technology accessible to the industry.



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.



Light and compact design

High power, high performance LED Luminaire, yet small, light and easy to handle.

Products	L-100	L-50	L-25
Rated power:	100 W	50 W	25 W
Luminous flux:	> 16.000 lm	> 8.000 lm	> 4.000 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):	320 x 320 x 100 mm	240 x 240 x 85 mm	240 x 150 x 85 mm
Net weight (luminaire only):	2.7 kg (5.9 lb)	1.5 kg (3.3 lb)	1.1 kg (2.4 lb)
Gross weight (packaged in the box):	3.9 kg (8.6 lb)	2.7 kg (5.9 lb)	2.3 kg (5.1 lb)
Common Properties			
Radiation tolerance TID gamma:	2 x 10 ⁵ Gy		
Neutron fluence 1MeV (Si):	5 x 10 ¹³ n/cm ²		
Input voltage ratings:	120, 230 or 277 VAC, 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 65 / IK 08		
MTBF, MIL-217F N2, GB @ 50 °C:	> 3 x 10 ⁶ h, Predicted lifetime > 22 years @ 95 % confidence level		
Ambient temperature:	10 °C to 60 °C (50 °F to 140 °F)		
Driver location:	Internal, direct connection to the mains, no external boxes		
Housing / optics material:	Aluminium / Silicone		
Warranty:	5 years		
Certificates:	Radiation, CE, CB, FCC		

Notes:

- Custom holder and custom cable length are available on request.
- The Luminaires are not supporting wide input voltage range. Correct input voltage rating should be ordered.
- The Luminaires are designed for professional use only.

get in touch with us:

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