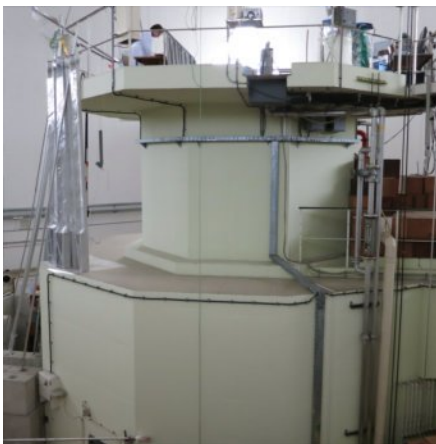


# the L-Series

## Nuclear Grade LED Luminaires Product Flyer



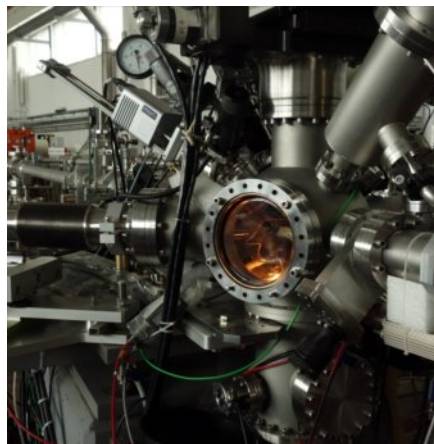
PFL-0325



### Our technology

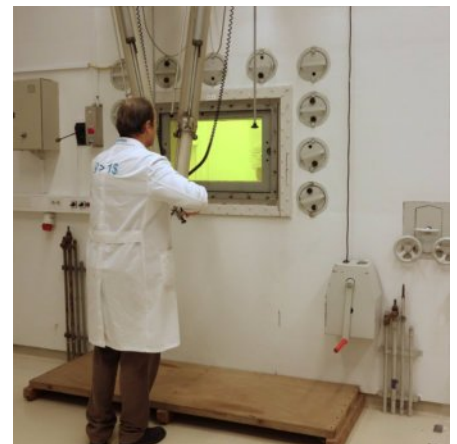
The **L-Series** represents our latest generation of high-radiation, high-temperature-resistant LED luminaires, tailored for cost-sensitive nuclear applications.

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:                             | 320 x 320 x 100 mm   | 240 x 240 x 100 mm | 240 x 200 x 100 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 <sup>5</sup> Gy   |                    |                    |
| Neutron fluence 1MeV (Si):              | 5 x 10 <sup>13</sup> n/cm <sup>2</sup>   |                    |                    |
| 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 <sup>6</sup> 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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