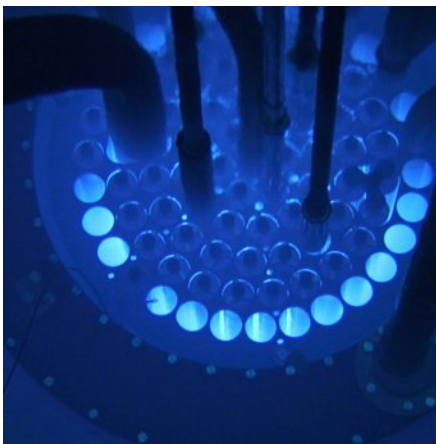


# the H-Series

## Nuclear Grade LED Luminaires Product Flyer



PFH-0425

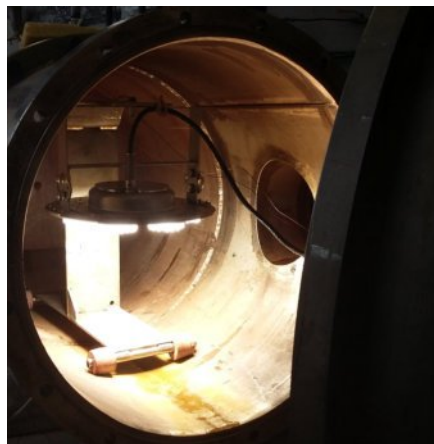


### Our technology

At the heart of our success lies our proprietary ultra radiation resistant LED driver, a breakthrough innovation integrated across all our products.

Unlike traditional solutions, our design eliminates the need for external boxes outside the radiation zone, streamlining deployment and operation.

This achievement is the result of years of relentless development and hundreds of irradiation tests.



### Your benefits

- World's highest TID gamma resistance,
- World's highest neutron resistance,
- World's first and only LOCA certification,
- Seismic capacity tested and certified,
- ILRT tested and certified,
- Well protected against elements,
- Extremely robust and highly impact protected,
- Direct connection to the mains voltage.



### Applications

The **H-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."

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Designed to meet the highest standards, providing the best solution for your most demanding nuclear 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

For typical NPP applications. No aluminum, zinc, glass, PC, PMMA or similar.

Products	H-100	H-50	H-15
Rated power:	100 W	50 W	15 W
Luminous flux:	> 16.000 lm	> 8.000 lm	> 2.500 lm
Overall efficacy:	> 160 lm/W	> 160 lm/W	> 160 lm/W
Standard optics type:	High-Bay	Low-Bay	Low-Bay
Dimensions:	dia 320 x 208 mm	dia 240 x 125 mm	250 x 200 x 100 mm
Net weight (luminaire only):	5.3 kg (11.7 lb)	3.3 kg (7.3 lb)	3.2 kg (7 lb)
Gross weight (packaged in the box):	6.8 kg (15 lb)	4.6 kg (10.1 lb)	4.5 kg (10 lb)
Common Properties			
Radiation tolerance TID gamma:	5 x 10 <sup>5</sup> Gy		
Neutron fluence 1MeV (Si):	5 x 10 <sup>14</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		
CRI:	> 80		
Ingress / Impact protection:	IP 68 / 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:	Stainless Steel / Silicone		
Warranty:	5 years		
Certificates:	Radiation, LOCA, Seismic, ILRT, CE, CB, FCC		

### Notes:

- Custom holder and custom cable length are available on request.
- Custom up to 2 MGy TID gamma resistance 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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