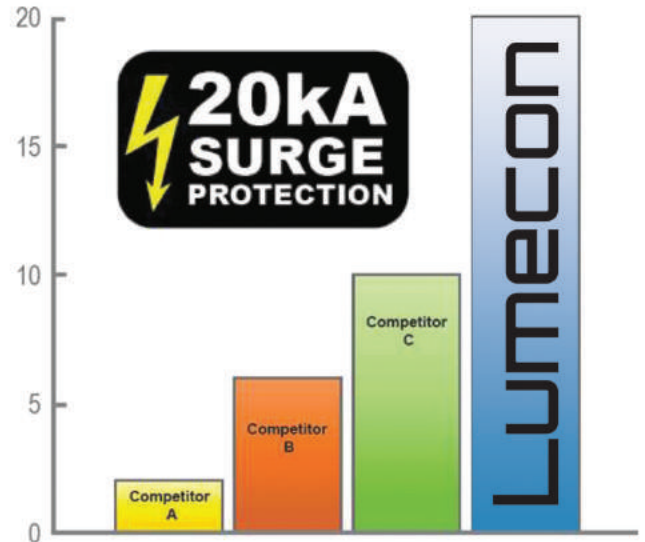


20kA Surge Protection

Electrical surges are spikes of current, voltage or power in an electric circuit. These brief over-voltage disturbances on the power infrastructure can damage, degrade, or catastrophically destroy lighting fixtures within any commercial, industrial, or manufacturing facility.

Lightning is the most recognizable external source of surge, but it can also be triggered by internal devices such as HVAC systems and industrial machinery.

Other causes may include: faulty wiring, failing transformers, and downed power lines. Dirty power, which is caused by complex power grids within aged infrastructures, can also increase the potential for inconsistent electrical currents.



Protecting Your Investment

Lumecon installs a 20kA Metal Oxide Varistor (v) Surge Suppressor standard into every fixture to help protect against these brief over-voltage disturbances. Industry competitors offer 2kA - 10kA protection options, if at all. That's nearly half the protection compared to Lumecon's standard build.

The MOV suppressor will divert voltage spikes away from your fixture by forming a connection with the grounding line. This connection minimizes the overall rate of catastrophic failures when these instances occur. As with all electronic components, MOVs do have a finite life expectancy, which is dependent on the frequency and intensity of the electrical surge episode. Lumecon's MOV fails "open," so the luminaire will cease to function and remain protected until the MOV is replaced, which will re-establish fixture functionality.

*"\$26 Billion In Lost Time, Equipment Repair And Replacement Costs Are Attributed To Electrical Surge"
Estimates of Business Week*



A 20kA Surge Suppressor is included in every fixture to provide an additional level of protection against power line disturbances in industrial and commercial applications.

Thermally protected 20kA/ 40kV varistor type surge suppressor is included and meets ANSI C136.2-2015: Extreme Level. Also meets IEC61643-11 Class II / EN61643-11 Type 2, and US Dept of Energy MSSLC Model Spec for surge protection. The device is wired in series with the luminaire input power in order to interrupt power to the luminaire when consumed, protecting the LED power supply and circuit boards from additional electrical surges.