

Photocontrol Incompatibility with AreaMax Street and Area LED Luminaires

Subject Ripley Lighting Control LongLife II Photocontrol Part Number: 6390LL-BK & Decorative LED Control Part Number: RD8645

Scope Incompatibility of Ripley Photocontrol with all models of Evluma AreaMax AM and AX, 30W, 40W, 55W, 70W, 80W and 100W, S3 and S7 fixtures.

Result of Analysis

The LongLife II 6390LL-BK and the Decorative LED Control RD8645 photocontrols from Ripley Lighting Controls contains Ripley's patent pending Self-Healing Relay™ feature. Stuck contacts are a common failure point for photocontrols. This feature works to un-stick relay contacts which might occur during normal operation. It achieves this by using a special circuit that monitors the output of the photocontrol. If it detects that the contacts are stuck open or closed, the feature rapidly cycles the relay to un-stick the contacts.

The Evluma AreaMax patented Photocontrol FailSafe™ feature similarly monitors the output state of the photocontrol relay, and if it detects the contacts are stuck open or closed, takes over control of the lamp for dusk and dawn control.

The Ripley monitoring circuit and the Evluma monitoring circuit interact with each other causing erroneous detection states in both circuits. This results in the Ripley Self-Healing feature concluding that the relay is stuck and begins cycling it. This cycling creates a continuous chattering noise. The Evluma AreaMax will also not respond properly to the photocontrol output in turning the lamp on or off.

Recommendation:

Evluma recommends using any other Ripley model which does not utilize their patent pending Self-Healing Relay™ feature or any other brand of photocontrol.

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