L Prize Cover Page

Submission/Product Title: Bluetooth Mesh Wireless Lighting Control System

Short Description

This connected system solution is founded on interoperable Bluetooth mesh capability to provide smart networked lighting control (NLC) that offers unprecedented flexibility and versatility. It offers robust LLLC control through a sleek Zhaga/D4i-compliant sensor/controller embedded in a luminaire that can deploy occupancy-based, daylighting, and scheduled control via web- and app-based interfaces. Because the controller is D4i compliant, the system can also provide vital energy and performance information from each luminaire.

Compliant with the Bluetooth mesh specification, the system can be easily scaled over time by adding new Bluetooth mesh devices, re-configured via broadcast signal, or upgraded via over the air update.

Brief explanation of intended market and applications

This solution can be deployed in virtually any indoor application type. It is ideal for commercial spaces, including offices, conference rooms, copy and storage rooms, lunch and break rooms, and hallways. It is also well-suited for educational settings, including classrooms, lab spaces, libraries, cafeterias, and dining halls. Other types of applications where an LLLC approach can be valuable include retail, healthcare, common areas in multifamily construction, libraries and museums and galleries.

The intended market can encompass both new construction and retrofit. Because the system can be pre-configured at the fixture manufacturer, it can be swiftly installed on a project site with average commissioning time less than two minutes per fixture. This can save significant costs on installation when compared to conventional wired solutions.

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Other Partners (if any, and description of relationship): Silvair, strategic partnership in firmware and commissioning tool development

