**Electrics**



*Figure 132*
*DMX Dimming system sample.*

### 2.3.4 LON (Local Operating Network) Lighting Control Systems

LON is a networking platform specifically created to address the needs of control applications. The platform is built on a protocol for networking devices over media such as twisted pair, power-lines, fiber-optics, and RF (radio frequency). It is used for automation of lighting to serve cities, governments with better control of their streetand public realm lighting; this may include feed-back from the lights about their operation status or failures as they are happening.

The communications protocol (known as LonTalk) is specified by ANSI and accepted as a standard for control networking known as ANSI/CEA-709.1-B; and under EN 14908 (European building automation standard). The protocol is also one of several data link/physical layers of the BACnet ASHRAE/ANSI standard for building automation. 'Building automation' does not only mean 'inside buildings', such systems are now very common and in different areas of applications based upon specific controls.

**CHAPTER**

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