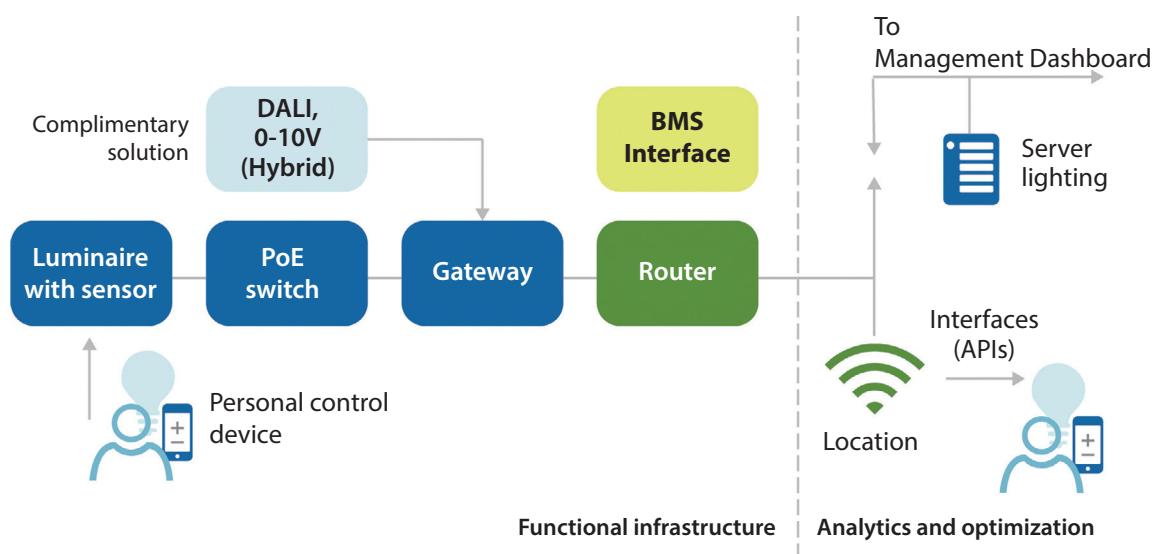# PANDUIT™

PHILIPS

Philips Lighting – Powered by Panduit

Architecture

Philips Lighting is the global leader in lighting systems, services, and products. Philips combines digital innovations with a deep understanding of how lighting positively affects people to provide rich experiences, deliver new value, and improve lives. Philips is the industry leader in sales of high-quality, energy-efficient LED lighting and connected lighting systems and services, which apply the principles of the Internet of Things to digital illumination. The dynamic, data-driven innovations of Philips help people feel comfortable and secure, and promote well-being, productivity, and business growth.

The Philips Solution

Through system integration and the Internet of Things (IoT), smart buildings can adapt and respond automatically to individual user preferences, use of space, and changing weather conditions. Systems and devices can share data and operate more efficiently. Connected lighting systems with smart sensors and controls integrate with other systems and can share a wide variety of collected data, such as occupancy, space usage, temperature and humidity – enabling offices to become more efficient, sustainable, and responsive.

Philips Power-over-Ethernet (PoE) enabled luminaires incorporate Visible Light Communication (VLC) technology that allows for app-based control and personalization of lights via an occupant's smart phone. Connected lighting can inform facility managers of maintenance requests, room occupancy trends, temperature control and other building services.

Why Connected Lighting?

- **The human component:** A more technology-enabled environment creates higher attraction and retention levels of professionals within the organization

- **Personalize via mobile apps:** Individuals can adjust the lighting levels and temperature, creating a more comfortable and productive workspace

- **Location-based services:** The connected lighting system via VLC enables insights into the availability of nearby facilities such as meeting rooms – improving productivity

- **Central management:** Remotely and centrally monitor and manage all connected light points, energy consumption and occupancy data via software

The Panduit Network Infrastructure Solution for PoE-Powered Lighting Applications

Panduit's copper cabling solutions provide the infrastructure for networks of all shapes and sizes, with support for any type of Power over Ethernet (PoE, PoE+ or PoE++). A single Ethernet cable delivers both power and data to network connected devices, for the ultimate in efficient installation and management. Heat rise from PoE is a non-issue with Panduit copper cables and connectors,which have been engineered to manage even the highest levels of PoE-induced heat without impacting cable performance.

Beyond the cabling and connectivity, lighting installations also require a physical infrastructure that varies based on the architecture being used. PoE switches can be located in a nearby telecommunications room, in the ceiling near the lights, or a hybrid of the two architectures can be used. Whichever architecture you are planning for your project, Panduit infrastructure can support it.

Copper Cabling Infrastructure

Part Number	Description	Euro Class
PUY6AM04WH-CEG	Cable – Category 6A UTP	Cca-s1b-d1-a1
PUY6C04WH-CE	Cable – Category 6 UTP	Cca-s1a-d1-a1
CJ6X88TGBU	RJ45 Jack – Category 6A	
CJ688TGBU	RJ45 Jack – Category 6	
FP6X88MTG	Field Term Plug – Category 6A/6/5e	
UZPLWH10M	UTP Zone Cord with modular plugs – Category 6A	
UPLBU10M	UTP Zone Cord with modular plugs – Category 6	
CPPL24M6BLY	Modular Patch Panel, 24-port	
CPPL48M6BLY	Modular Patch Panel, 48-port	