What are networked lighting controls?
Smart devices that communicate digitally and can be layered in a space to maximize energy savings.
What are the control strategies?
Task Tuning (aka High End Trim)

The ability to set a maximum light output that is lower than its true capability.
Scheduling

The ability to set custom on/off/dim levels for lighting based upon the time of day, day of week, day of year, etc.
Occupancy Sensing

The ability to detect the presence or absence of people in a space.

(Auto On, Auto Off)
Daylight Harvesting

The ability to detect the amount of daylight that is present in a space.
Dimming

The ability to provide 100+ steps of dimming so that it is perceived as smooth.
Demand Response
(aka Load Shedding)
The ability for a utility to contact a building manager and easily put the facility into a demand response scene for a set period of time.
Layering Techniques.

Networking enables individual control techniques to be layered, which can increase energy savings from 38%* to 60%**.

*LBNL 2011
**Federal Times, Feb.2015
Penetration of Advanced Networked Lighting Controls in Commercial Buildings

- Office: 2.21%
- Retail: 0.79%
- Education: 2.43%
- Healthcare: 2.17%
- Hospitality: 1.12%
- Institutional/Assembly: 0.67%
- Warehouse: 1.33%
- Transport: 1.29%

Source: DLC, Navigant Consulting 2014
The system...
Lightcloud has 6 simple components.

- Gateway
- Controller
- Ceiling Sensor
- Daylight
- Dimmer
- Touch
Lightcloud is Wireless.

He has Lightcloud.

Lightcloud consists of a network of wireless components, wired to your lighting circuits.
Lightcloud is cloud-based.

There is no software to install or maintain, ever.
Cellular Communication.

The Lightcloud gateway communicates to RAB over a dependable, secure, private cellular network.
Lightcloud includes free design.

Lightcloud provides a team of Lighting Control professionals who will work with your plans to design an economical control system that meets code.
100% Commissioning by RAB.

- Verify Devices on the network
- Set all Device Master Settings
- Create Scenes
- Create Schedules
- Set all Automation Rules (for occupancy and daylighting sensors)
Lightcloud has Easy Re-commissioning.

Lightcloud is modular. So, re-using components and re-configuring an existing system for a new tenants is painless.
Lightcloud has a 10-year Hardware Warranty.
The capabilities...
Personal Control

The ability for individual users to adjust the light level to their personal preference within a space.
Scene Control

The ability to adjust the light levels in more than one zone and then group them to create unique aesthetic effects.
Easy User Interface

The tool used to easily read and adjust the system settings during start-up, commissioning, and/or ongoing operation.
Energy Monitoring

The ability to measure the power consumption of a lighting system accurately over a specific period of time.
Remote Diagnostics

The ability to monitor, diagnose and report operational performance.
HVAC Control

The ability to control the conditioning of spaces through occupancy sensing or scheduling.
The projects...
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