



Bring unmatched efficiency and control to your office lighting

Key Office Benefits:

- Powerful lighting control strategies for up to 70% lighting energy savings.
- Fastest payback - up to 50% less expensive than wired lighting control installation.
- Scalable from a single office to system-wide control of lighting across a distributed enterprise.
- Reliable and robust ZigBee® mesh architecture for fast, reliable, bi-directional control.
- Real-time, measurable information about energy usage.
- Easy to install, commission and manage.
- Integrates office lighting control into advanced smart grid and demand management applications.
- Simple and intuitive remote user interface for energy management.
- Flexibility to add new devices, features and control strategies over time.

Overview

Lighting within commercial offices represents one of today's greatest opportunities for energy use reduction and savings. According to the Department of Energy, lighting makes up 39% of the electrical use in office buildings – by far the largest single source. Retrofitting with a more efficient light source is a start, but installing **wireless lighting controls from Daintree Networks** can save an additional 40 – 70% in lighting energy costs.

Wireless networks are the smarter and greener choice for today's intelligent office—reducing installation costs by up to 50% while enabling advanced capabilities such as multi-facility management, demand response, and the flexibility to expand energy savings over time. Wireless lighting controls provide granular management to optimize energy savings within each individual area of the office, centralized control over enterprise-wide lighting, and ultimate flexibility for reconfiguration. And whether installed alone or as part of a larger retrofit, Daintree can help meet government regulations and contribute valuable points towards LEED.

ROI example:

- Square feet: 60,000
- Electricity cost: \$.12/kWh
- Incentive: \$.07/kWh saved
- Annual kWh savings: 202,000
- Lighting energy cost reduction: 56%
- Time to payback: 2.1 years

Wireless Solutions for Intelligent Offices

Daintree Networks' **ControlScope™ wireless platform** is a powerful and simple-to-install solution for energy-saving lighting controls in offices. The ControlScope intelligent wireless mesh network eliminates dedicated control wiring and physical control panels, removing much of the expense and complexity of lighting controls. Sensors, wall switches, ballasts and LED drivers all communicate with each other wirelessly, either through built-in wireless capabilities or with an adapter.

A wireless lighting control solution from Daintree Networks not only offers control over individual lights and offices, but also provides buildings with true enterprise-wide control: multi-facility lighting management from a single console. Facility managers can view real-time energy reports, create intelligent lighting zones and set control strategies through ControlScope Manager, an intuitive Web-based application, and their commands are applied across the building or enterprise.

As the office evolves, the flexible Daintree solution changes with it. The ability to add zones, sensors, control strategies and even new types of lighting (such as LED and task lighting) over time through software-based updates greatly reduces the need for expensive re-commissioning. Because Daintree uses open standards, offices have access to a fast-expanding set of cost-effective wireless devices.

Powerful Control for Offices

- **Flexible Centralized Scheduling** – Facilities can set an automated lighting schedule online for each individual zone or office.
- **Wireless Occupancy Sensing** – Wireless sensors can be conveniently placed where they will achieve the most appropriate coverage, reducing lighting levels when areas are not occupied.
- **Daylighting** – Daintree's daylighting algorithms utilize photocell light levels to dim down lights in window-facing office areas. In addition, Daintree's Daylight Budgeting™ process can create a schedule to automate daylight usage in offices.
- **Auto Demand Response** – The Daintree solution receives demand signals from utilities through OpenADR, to automatically reduce lighting usage during peak times based on priority and zone.

- **Task Tuning** – Many offices are over-lit without regard to varying employee needs. Through Task Tuning, the Daintree system can set a more appropriate maximum light level for each office area.
- **Individual Control** – By offering individual workers personal control over the lighting in their area, Daintree can both increase employee satisfaction and further reduce energy usage.
- **Energy Management** – System-wide energy management enables facility managers to view and compare energy usage over time across buildings, floors and individual offices.

Commercial Office Applications

- **Office Retrofit** - As part of a retrofit in a single-tenant or owner-occupied space, Daintree Networks easily adds energy-saving intelligence and control. One Wireless Area Controller (WAC) is installed per floor or large area on the existing IT network, and Daintree's wireless adapters are installed within selected fixtures at the time of retrofit. The system automatically performs the key commissioning tasks, and the rest is performed online for a fast, painless, and cost-effective installation across the entire building, campus or enterprise.
- **High-rise Tenant Improvement** – ControlScope enables Tenant Improvement projects to exceed building code requirements—typically at lower cost than basic code-compliant solutions. Each tenant receives control over their own space, while building management gains visibility into usage across tenants. Using wireless also reduces the cost of future lighting projects, eliminating the need to replace line-voltage wiring.
- **Branch Offices** - Daintree's multi-facility architecture makes the management of distributed offices simple. Each office uses a single WAC to control its local fixtures, sensors and switches. Each WAC is connected to headquarters via the corporate IP network. This allows both local control of light levels, and centralized management of lighting strategies and energy use, even across large distributed corporate enterprises.

About Daintree Networks

Daintree Networks is a clean technology company using wireless innovation to improve energy management within commercial buildings. Daintree provides technology for powerful, standards-based wireless lighting control solutions that deliver substantial lighting energy efficiency improvements in a more cost-effective way than ever before.

Since its founding in 2003, Daintree Networks has been a pioneer in wireless mesh networking, with nearly 400 customers using its industry-standard design verification and operational support tool. The company has brought this extensive experience to bear in developing the industry's first truly interoperable platform for wireless lighting controls. For more information, visit www.daintree.net.



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