

High-Performance and Energy-Efficient Lighting for Today's Data Center

Facing mounting pressure to improve power usage effectiveness (PUE) and drive uptimes higher, data center operators need to look beyond the IT equipment to the entire facility to lower costs and create high-performing workplaces. Creating an efficient lighting system is a quick and easy way to capture energy savings.

Redwood Systems' Building-Performance Lighting Platform is the world's only smart building platform that uses Cat 5e, 6 and 6A structured cabling to power and control lights and a high-density sensor grid in order to reduce energy and monitor disruptions to uptime.

By controlling highly efficient LEDs that offer greater per-fixture control, Redwood Systems' lighting solution provides best-in-class energy savings for data centers. The system relies on a standards-based infrastructure, which includes energy-efficient lighting and controls found in the ANSI/TIA 942-A standard.

Features

- Uses structured cabling (Category 5e/6/6A) for lower installation costs
- Provides granular monitoring of space utilization, temperature and power consumption
- In a lights-out data center, deploys motion-tracked lighting on a "follow-me" basis down individual aisles by using only the minimum energy needed to light the area around the occupants
- In a lights-on data center, enables significant dimming and energy savings while providing enough light for the operation of security cameras
- Uses open architecture to integrate with other building automation systems
- Complies with UL, cUL, and CE standards

With a growing roster of market-leading customers and partners, Redwood is building a reputation for customer success worldwide.

Energy savings

- Averages 75 percent in energy savings versus traditional lighting systems
- Uses cooler running LEDs
- Helps with LEED® and BREEAM® certification

Reduce maintenance and enhance security


- Helps LEDs outperform their lifetime and eliminates bulb or ballast replacement
- Provides low-light security camera operations
- Provides verification for security walkthroughs and provides alerts for unauthorized presence

Monitor threats to uptime

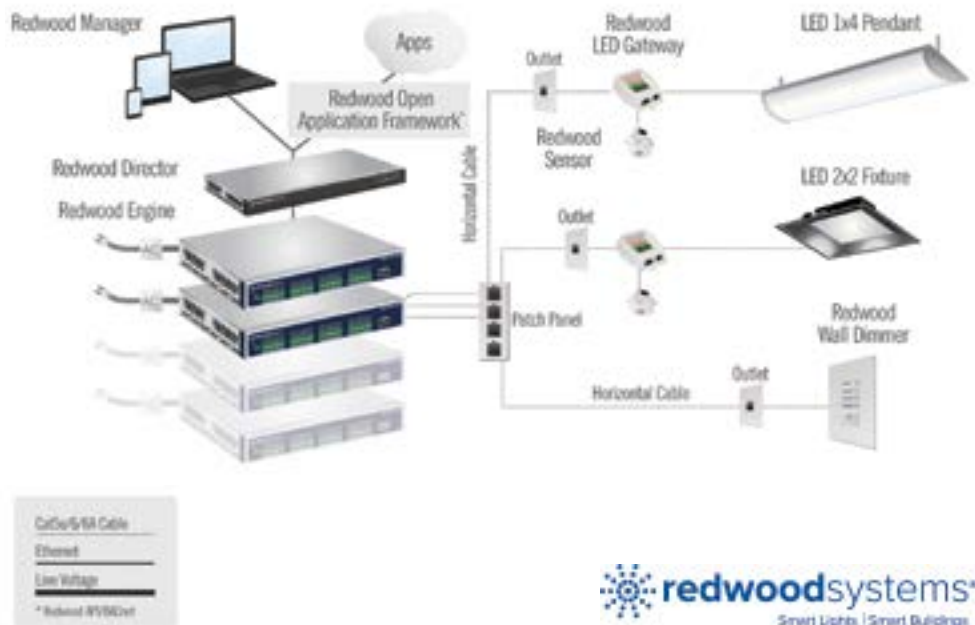
- Uses per-fixture sensors for temperature, motion, occupancy, power consumption, light level, air quality and pressure
- Offers programmable alerts via email

Remote monitoring and control

- Allows for Web-based control and monitoring from anywhere
- Flashes lights remotely for technicians
- Creates reports on energy usage and presence



The Redwood system scales well across various types of data centers from large Fortune 500 companies to co-location facilities, service providers, and smaller mission-critical ones.



Anixter and Redwood Working Together

Anixter understands that your data center must evolve to meet the increasing rates of data creation, power usage, storage, sustainability and security needs. Anixter has now partnered with Redwood Systems to offer building performance lighting solutions that will help you meet these demands effectively and efficiently.

The Redwood Engine is the core of the system and efficiently converts AC power to DC in one central location. The system then delivers low-voltage DC power and control to light fixtures through Category 5e, 6 or 6A cable, which reduces the complexity of installation.

The Redwood Gateway and Redwood Sensors are located next to or in every light fixture. These sensors constantly report on an ever expanding list of environmental data that include light levels, temperature, occupancy data and power consumption.

The Redwood Open Application Framework enables customers and partners to integrate complementary systems and applications with the Building-Performance Lighting Platform. The framework enables external platforms and devices to read sensor network data for custom display, analysis or action and to execute lighting controls. The Redwood Open Application Framework is available on the Redwood Director.



Contact your local Anixter representative to learn more about this Redwood lighting solution.

Anixter Part No.	Manufacturer Name	Manufacturer Part No.	Description
455580	Redwood Systems	CABEXT-2	Cable extender
455581	Redwood Systems	CABEXT-4	Cable extender
455582	Redwood Systems	CABEXT-6	Cable extender
455583	Redwood Systems	CABEXT-8	Cable extender
461088	Redwood Systems	DIR-1G	Director
478410	Redwood Systems	Powercord-NA-120-250	Power cord
478411	Redwood Systems	Powercord-NA-277-20P-10	Power cord
455574	Redwood Systems	RD-1G-W	Dimmer
486385	Redwood Systems	DIM-2-45W	4 Scene control switch
461083	Redwood Systems	RE64-2G-120-250-ROS	120–250 V engine
461084	Redwood Systems	RE64-2G-277-ROS	277 V engine
493064	Redwood Systems	RG-2G-LED-ML22D122	Gateway for MaxLite GEN II DP series 2x2 and 1x4 LED fixtures
461087	Redwood Systems	RS-2G	Sensor
487144	Redwood Systems	RS-2G-D	PIR sensor
476721	CompuLink	35-10047-01 (Redwood part RPC-RJ45-1G)	84-Inch copper hydra assy engine connector to terminated RJ45s
490862	MaxLite	MLCP22DP4035RW	GEN II 2x2 LED fixture, 3500K
490864	MaxLite	MLCP22DP4041RW	GEN II 2x2 LED fixture, 4100K
490865	MaxLite	MLCP22DP4050RW	GEN II 2x2 LED fixture, 5000K
490866	MaxLite	MLCP14DP4035RW	GEN II 1x4 LED fixture, 3500K
490868	MaxLite	MLCP14DP4041RW	GEN II 1x4 LED fixture, 4100K
490869	MaxLite	MLCP14DP4050RW	GEN II 1x4 LED fixture, 5000K
490870	MaxLite	EM	Emergency pack

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