

Airwave and LEED®



A global focus on sustainability has inspired designers, architects and builders to embrace new technologies and create environmentally sensitive structures.

By delivering a unique combination of energy performance, control and flexibility, Airwave greatly expands the possibilities for sustainable building design.

www.ledalite.com/airwave

CREDIT ID	POINTS	HOW LEDALITE TECHNOLOGIES CAN HELP
Sustainable sites Light pollution reduction	1	Ledalite products are designed with high performance optical components including revolutionary MesoOptics® technology which minimizes light pollution and light trespass from the building.
Energy & atmosphere Fundamental commissioning (prerequisite)	PR	Wireless connectivity and commissioning of Airwave devices ensure simple installation, calibration, and verification that lighting and control systems are installed as intended. Relocation of wireless devices ensures energy code compliance and flexibility for changing conditions.
Minimum energy performance (prerequisite)	PR	Personalized wireless devices create greater user accessibility and encourage energy savings. Daylight harvesting sensors maintain priority to ensure minimum levels of energy efficiency.
Optimize energy performance Lighting power	1-5	Ledalite high performance luminaire designs can reduce lighting power densities by as much as 55% below Title 24 or ANSI/ASHRAE standards. Airwave's integrated Demand Response load shedding signals can further optimize energy performance by automatically dimming or turning off luminaires when electricity usage is at its peak.
Lighting controls	1-3	Airwave and Response® photosensing devices monitor light levels and dim luminaires to optimize daylight and minimize electrical lighting and maintain priority to eliminate excessive energy use.
Enhanced commissioning	5	Ledalite provides complete step-by-step installation and commissioning documents for quick and easy implementation.
Measurement & verification	2-5	Easily develop a measurement and verification plan that monitors lighting and controls usage.
Materials & resources Materials reuse	1-2	After the initial commissioning of Airwave, wireless devices can be reused in any space without copper wiring. Switches and sensors are kinetic and solar powered, thereby eliminating the need to purchase or replace any batteries. The reduction of copper wiring and batteries reduces waste in the landfill and ultimately lessens the environmental impact.
Indoor environmental quality Controllability of systems Lighting	1	Airwave eliminates fixed-intensity general lighting systems by providing the ability to create individual lighting for offices and meeting rooms. Airwave kinetic devices give occupants personal control to allow for dimming and turning off luminaires when full output is not required.
Innovation in design process Innovation in design	1-5	The unique combination of Ledalite technologies including patented high performance luminaire designs with MesoOptics technology, integrated Response Daylight sensors, and Airwave wireless, self-powered, battery-free controls, provide significant energy and ergonomic benefits to achieve exceptional performance beyond basic sustainable building guidelines.

Source: 2009 Green Interior Design & Construction LEED® Guide