



Contractor Guide to
Luminaires with
Embedded Controls

Embedded Controls

Lighting control solutions have continued to evolve and improve, shifting over time from panel-based floor-level control solutions to granular control of each individual luminaire. Lower installation costs, advancements in wireless control technology, and increasingly strict energy codes have all fueled the adoption of luminaires with embedded controls.

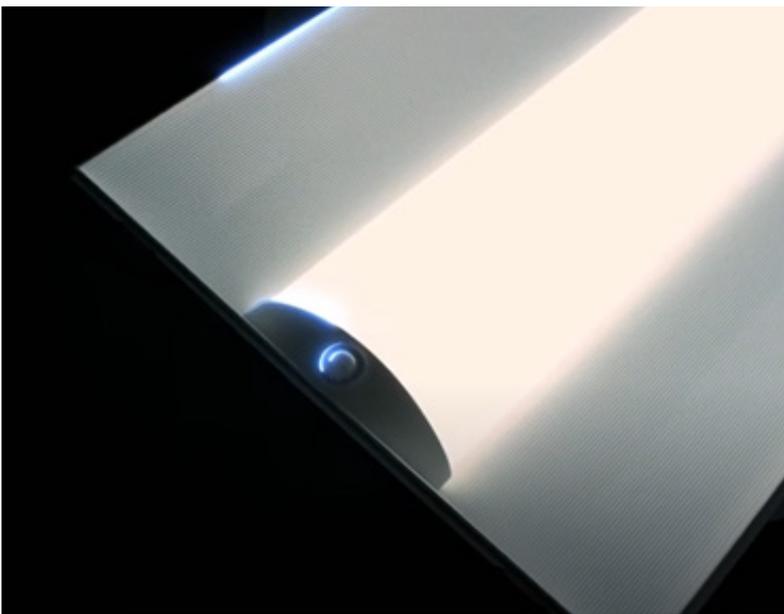
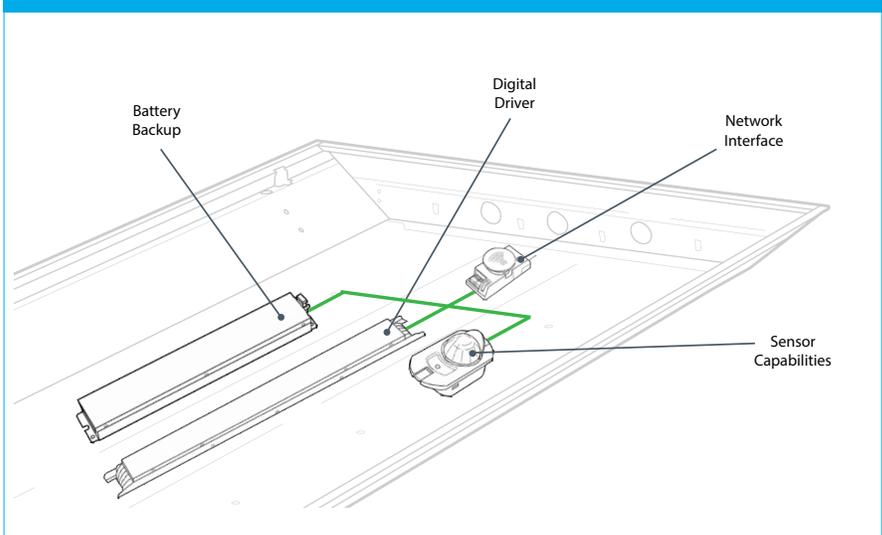
A luminaire with embedded controls has been designed by the manufacturer to have the controls within the luminaire. One value of the embedded luminaires is they are manufactured, tested, and shipped with the control already present, eliminating both the field installation of control devices and any concerns over luminaire/control interoperability.

Benefits

Application Efficiency

nLight® AIR enabled luminaires with embedded sensors have shown a labor savings of over 23% compared to a traditional sensor/power pack installation for the most common applications*.

Controls In A Luminaire



Application Flexibility

Every project is unique. A lighting control system with embedded controls provides the flexibility needed to meet virtually any application for indoor and outdoor environments.

The nLight platform of wired and wireless controls easily scale beyond the indoor environment, pulling in outdoor site, area, and parking lighting under a single control platform.

* Contractor time savings is calculated on estimated install time for typical spaces with the lowest level of code standard. Actual results may vary.



Fixture Choice Flexibility

The availability of luminaires with embedded controls continues expanding for all lighting categories. Acuity Brands has the broadest number of luminaires with embedded controls and specifically nLight. nLight sets itself apart with a comprehensive offering that includes thousands of embedded luminaires, with families spanning from indoor to industrial to outdoor.

Ease of Installation

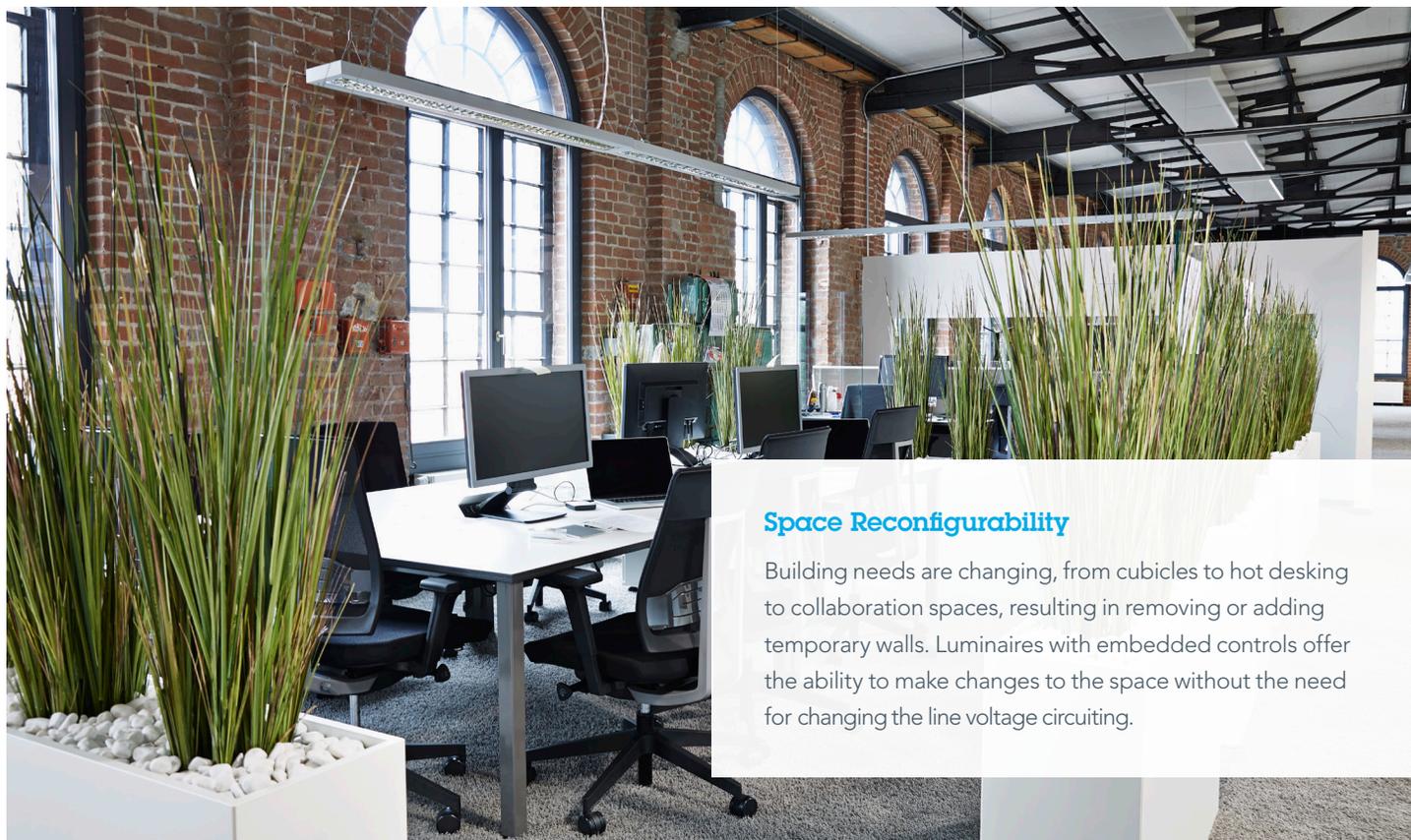
A project utilizing luminaires with embedded controls will be easier to install than a traditional lighting control system due to less wires and fewer devices to install, resulting in lower labor costs.

For example, installations with luminaires that contain embedded wireless sensors and a wall switch for override requires no additional components. And with occupancy sensors within each luminaire, this provides overlapping

sensor coverage and eliminates the need to place sensors in a specific location for best coverage. No more job site returns due to lights turning off when people are in the space.

Code Compliance

Energy code requirements continue to become more stringent. Luminaires with embedded controls simplify code compliance and are even encouraged in some energy codes (i.e., Luminaire Level Lighting Controls).



Space Reconfigurability

Building needs are changing, from cubicles to hot desking to collaboration spaces, resulting in removing or adding temporary walls. Luminaires with embedded controls offer the ability to make changes to the space without the need for changing the line voltage circuiting.

nLight® Lighting Controls

nLight networked lighting controls provide the simplicity, flexibility, and scalability required by today's indoor environments with the ability to go outdoors on the same network. nLight can start as a smart, single room network that easily scales to an entire campus, making it an ideal solution for virtually any indoor or outdoor application.



nLight Wired

nLight Wired is a CAT-5e based solution that works by establishing a digital communication network between connected devices to create a system with distributed intelligence. Simply connect the devices together and power them up, and you have a plug-and-play control solution.

nLight AIR

nLight AIR is a wireless lighting control solution that eliminates the need to run wires, resulting in an overall lower cost of install. nLight AIR simplifies design and installation by embedding sensors directly into a wide variety of indoor and outdoor luminaires.

nLight Enabled Luminaires

With a comprehensive offering that includes an industry-leading catalog of nLight enabled luminaires, spanning every category from indoor to outdoor, combined with a broad portfolio of lighting control devices, nLight sets itself apart as the contractor preferred lighting control platform.



Security The comprehensive integrated, five-tier security architecture of nLight AIR provides security controls at all product levels from connected luminaires, system controller and physical/virtual infrastructure to cloud and mobile applications.



A+ Certified solutions from Acuity Brands help you quickly and confidently select and implement lighting systems, for indoor or outdoor applications, that are both compatible and consistent. For lighting applications, A+ means verified consistent performance, visual appearance and system interoperability of all luminaires and controls within the certified solution. For you, it means confidence that all parts of the lighting system will work together and meet common Acuity Brands specifications.