

## Aura NoctiLED Long Life

A versatile LED module to meet your every outdoor lighting need

# A single module that can do it all

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Not just one, but a variety of solutions in a single module. Aura NoctiLED Long Life can be mounted on a pole or wall, in conditions ranging from the sub-Arctic to the tropical. It can also be incorporated into new luminaire designs without time-consuming re-engineering. Last but not least, Aura NoctiLED Long Life can be retrofitted into existing outdoor luminaires in order to replace obsolete, energy hungry technology.

Advanced NoctiLED technology is extremely energy efficient, producing over 100 lm/W. The modular design has obvious benefits when it comes to future upgrades. AuraNoctiLED Long Life's built-in intelligence enable you to use either pre-set dimming levels, pre-programmed midnight dimming modes, or use the 1-10V input for advanced remote control. These lighting control options further enhance the energy savings that can be realized by switching to Aura NoctiLED Long Life modules.

Aura NoctiLED Long Life – modularity for sustainability.

- **Can be mounted stand-alone or installed in a luminaire housing (IP67)**
- **All-in-one module: LEDs, optics, cooling and LED driver all integrated**
- **Active double thermal protection to ensure long lifetime**
- **Flexible control options, including integrated midnight dimming**
- **Tool-free settings**
- **10 kV surge protection**
- **70,000 hour lifetime**
- **Perfect for pathways, roads, parking areas, public places and building facades**



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# Modularity for sustainability

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Aura NoctiLED Long Life modules can be simply and rapidly replaced when you would like to update or replace the LED modules in your installation. Modular thinking has advantageous consequences. From an update point of view, the driver and the LED module will never fall out of sync with each other. Replace one and you have replaced the other, thus minimizing maintenance time and always assuring yourself of the most recent technology pairing available. Should only the LED driver ever need changing, it is easy to do so.

## Saves money and the environment

Compared to legacy technology alternatives, Aura NoctiLED Long Life is much more energy-efficient. Not only does the Aura NoctiLED Long Life have a longer life-expectancy than its HPS, mercury or metal halide counterparts, its brightness also depreciates less over time. Put simply, it stays brighter longer. This feature serves to further reduce maintenance costs and makes these modules suitable for virtually any public lighting situation. Less frequent replacement saves both time and money.

Shock and vibration resistant, the modules are also the natural choice for high- and heavy-traffic settings—especially bridges and overpasses. Like all high-quality LEDs, Aura NoctiLED Long Life can be switched on and off frequently without reducing their life span or affecting other operating characteristics unfavourably.

## Aura NoctiLED Pole & Wall

Aura NoctiLED Long Life module can easily be incorporated into existing luminaire designs, or operate as a stand-alone unit with a pole or wall mount.

In one complete, easy-to-install package, the Aura NoctiLED Pole or Wall brings all the advantages of the NoctiLED Long Life module directly to public lighting. Characteristic of its elegant design, the NoctiLED Pole can be attached with only two screws, and the NoctiLED Wall requires no more than three screws for mounting on a facade.



AURA NOCTILED WALL



AURA NOCTILED POLE

# Our sustainability commitment

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Aura Light's brighter lighting – from the very first original Long Life light to today's LED solutions, can reduce energy consumption by up to 80%.

Our aim is to innovate – to develop lighting solutions that are more energy- and resource efficient than ever before. This is good for our customers, good for the environment and good for the world at large.

»You'll find that energy efficient innovative lighting has never been a better choice than now.«

# Built-in intelligence

As the lighting industry continues to make the transition to LED lighting, there is an increasing need for more intelligent LED solutions. With Aura NoctiLED Long Life all of the intelligence needed for maximum energy savings is built-in. Pre-programmed, on-board processor-controlled dimming provides no-fuss, economical control of how much light is delivered at different times during the dark hours. Either use one of the six pre-set lighting levels, one of the 10 pre-set midnight dimming modes, or if you prefer remote control, 1-10V inputs for network control connections have been engineered into the modular concept. (See below)

The adjustable output option allows lumen output and energy consumption to be easily adjusted in the field, from 5 W to 33 W, which minimizes inventory variation without sacrificing maximum energy savings.

However you choose to control these units, Aura NoctiLED Long Life modules can be turned on and off instantly and can be dimmed for added energy savings at dawn, dusk, and also

during hours of low traffic. It is worth noting that switching on off and dimming does not adversely affect the life-span of the module as is the case with other light sources such as CFLs.

## Midnight dimming

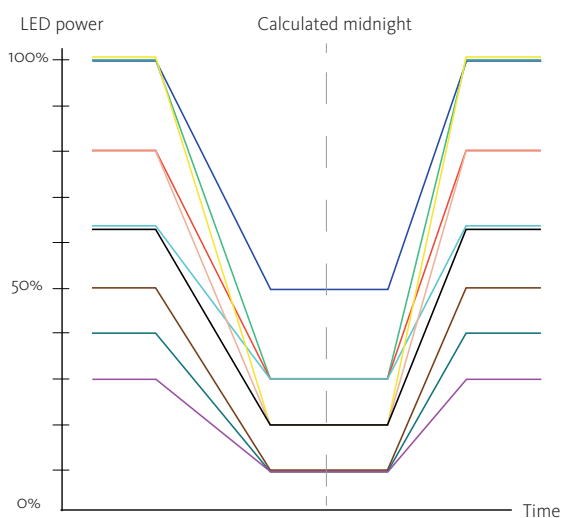
Aura NoctiLED Long Life module can be programmed to dim halfway through its nightly illumination cycle. We call this “midnight dimming” and it is enabled through a four-position on-board dip-switch that makes 16 different brightness and dimming combinations possible. These settings, or “light and dimming modes,” enable you to adjust the amount of light to the specific requirements of the location.

“Midnight” in this context is a calculated midnight, around which the dimming cycle centers. The calculated midnight is derived from the mean value of the total on-time of the past two nights. Midnight dimming will only be activated if the on-time is longer than four hours.

## Non-midnight dimming settings

SWITCH POSITIONS				LED POWER	SETTING
OFF	OFF	OFF	OFF	100%	MIDNIGHT MODE DISABLED
OFF	OFF	OFF	ON	80%	MIDNIGHT MODE DISABLED
OFF	OFF	ON	OFF	65%	MIDNIGHT MODE DISABLED
OFF	OFF	ON	ON	50%	MIDNIGHT MODE DISABLED
OFF	ON	OFF	OFF	40%	MIDNIGHT MODE DISABLED
OFF	ON	OFF	ON	30%	MIDNIGHT MODE DISABLED

## Midnight dimming settings



LED POWER LEVELS (NOT INTENSITY) CAN BE SET FROM 10-100%.

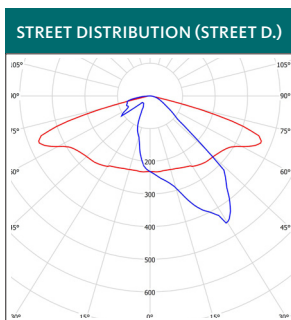
## Midnight dimming settings

LED POWER LEVELS (NOT INTENSITY)						
	SWITCH POSITIONS				MAXIMUM POWER	MINIMUM POWER
	OFF	ON	ON	OFF	100%	50%
	OFF	ON	ON	ON	100%	30%
	ON	OFF	OFF	OFF	80%	30%
	ON	OFF	OFF	ON	65%	30%
	ON	OFF	ON	OFF	100%	20%
	ON	OFF	ON	ON	80%	20%
	ON	ON	OFF	OFF	65%	20%
	ON	ON	OFF	ON	50%	10%
	ON	ON	ON	OFF	40%	10%
	ON	ON	ON	ON	30%	10%

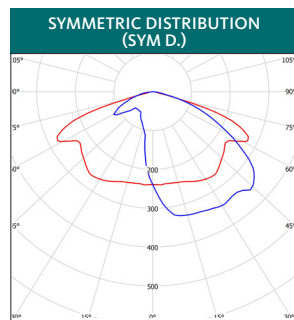
# Putting the light in the right place

Light that doesn't shine where and when it is most needed is wasted light. Not only can the Aura NoctiLED Long Life module be pre-set to virtually any light level, it is also delivered with a light distribution tailored either to street and roadway needs, or for lighting parking spaces, public squares and open surfaces. This means that you get exactly the light level you need, exactly where you need it.

Aura NoctiLED Long Life modules deliver a very uniform light distribution with a sharp cut-off. The optimized custom LEDIL optic means that less light needs to be produced to properly illuminate the targeted area. There are no hot spots under an Aura NoctiLED Long Life luminaire, and the overlay optics ensure a uniform light distribution. Depending on pole heights and pole distances, Aura NoctiLED Long Life complies for example with the requirements of DIN EN 13201 for ME-, CE- and S lighting classes. It's this optical precision that helps maximize energy savings.



LIGHT DISTRIBUTION FOR STREET AND ROADWAY LIGHTING



LIGHT DISTRIBUTION FOR PARKING AREAS, PUBLIC SQUARES AND FACADES

Technical information	
Voltage	120-230V AC 50/60HZ
Colour rendering index	≥ 80 (>70 for 5700 K model)
Beam angle	Depends on optic
Ambient temperature	-30°C – +55°C
Type of protection	IP67 (IP67 for pole version and IP65 for wall version)
Protection class	Class II
Cable entry dimensions	7 mm – 12 mm
Controllability	Internal dip-switch or 1-10V interface
Surge protection	10kV
Approvals	CE, ENEC (pending)



**Bright idea:** Use the midnight mode during low presence to save additional energy.



**Your street lighting just got smarter.**

Contact us today and start saving tomorrow! +46 (0)8 564 881 40.

# Designed for Long Life

Every part of the Aura NoctiLED Long Life has been developed and manufactured for a long lifetime. The housing and heat sink body has excellent thermal conductivity and consists of die cast aluminum treated with a military grade clear anodize for outstanding durability. The housing is sealed for outdoor use to protect Aura NoctiLED Long Life in harsh environments (IP67). The heat fins are designed for self-cleaning even in mounting angles +/- 15 degrees. All units are hydrogen leak tested before shipment.

## Fail-safe active thermal management

Aura NoctiLED Long Life's on-board processor monitors the LED junction temperature. Should it go over the defined limit, the unit will begin to dim. Dimming lowers the junction temperature, thereby actively protecting the operational life of the LEDs, as well as the entire system. The processor also monitors the LED driver temperature. This double failure prevention system provides exceptional protection.

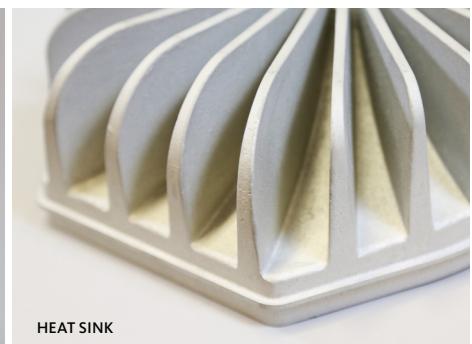
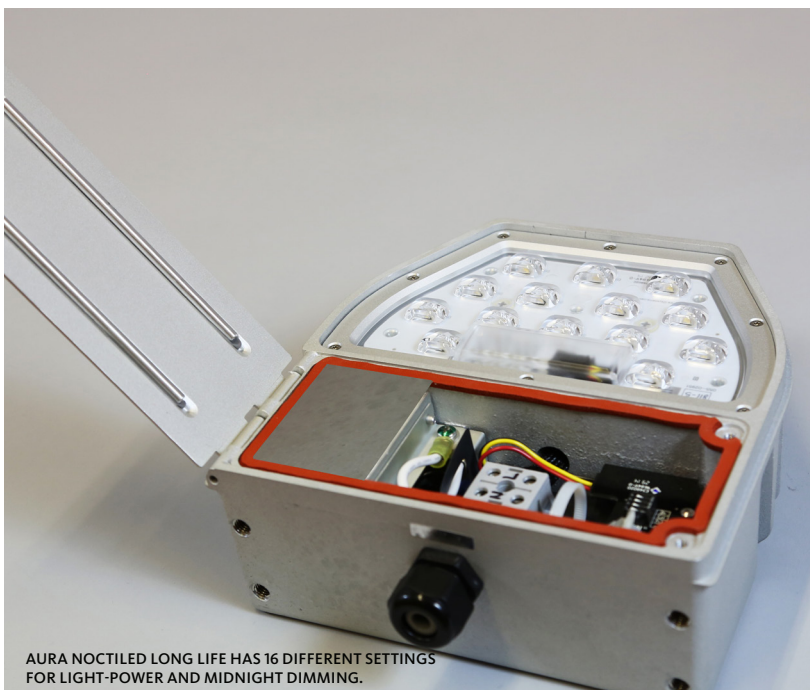
## Added protection for your investment

Voltage surges can have a huge destructive impact upon public lighting systems. These surges can destroy the power circuits and LED components, and increase maintenance costs. It is therefore crucial that these installations are protected against lightning and over voltages.

Aura NoctiLED Long Life contains a 10kV protection for surges according to IEEE C62.41.2 C High (10kA and 10kV). Surge current rating 20,000 Amps using 8/20  $\mu$ Sec wave. This extends the luminaire lifetime and greatly reduce overall operating and infrastructure costs.

## Backed by Aura Long Life guarantee

Aura NoctiLED Long Life is backed by a 70,000 system lifetime guarantee (around 10 years). The guarantee is based on L80 meaning a maximum of 20% light loss during this time. The guarantee covers installations that comply with the relevant standards and follow the specified instructions and guidelines. For more detailed information on our Long Life guarantees see our website or contact your Aura Light representative.



Aura Light develops and supplies sustainable lighting solutions to professional customers, enabling them to reduce cost, energy consumption and environmental impact. Aura Light is acknowledged for long lifetime, high quality and energy reduction, where our lighting solutions can reduce the energy consumption by up to 80 percent. Aura Light offers everything you need for your lighting installation within all technologies – from fluorescent lamps to LED. We are your total lighting solutions partner.

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