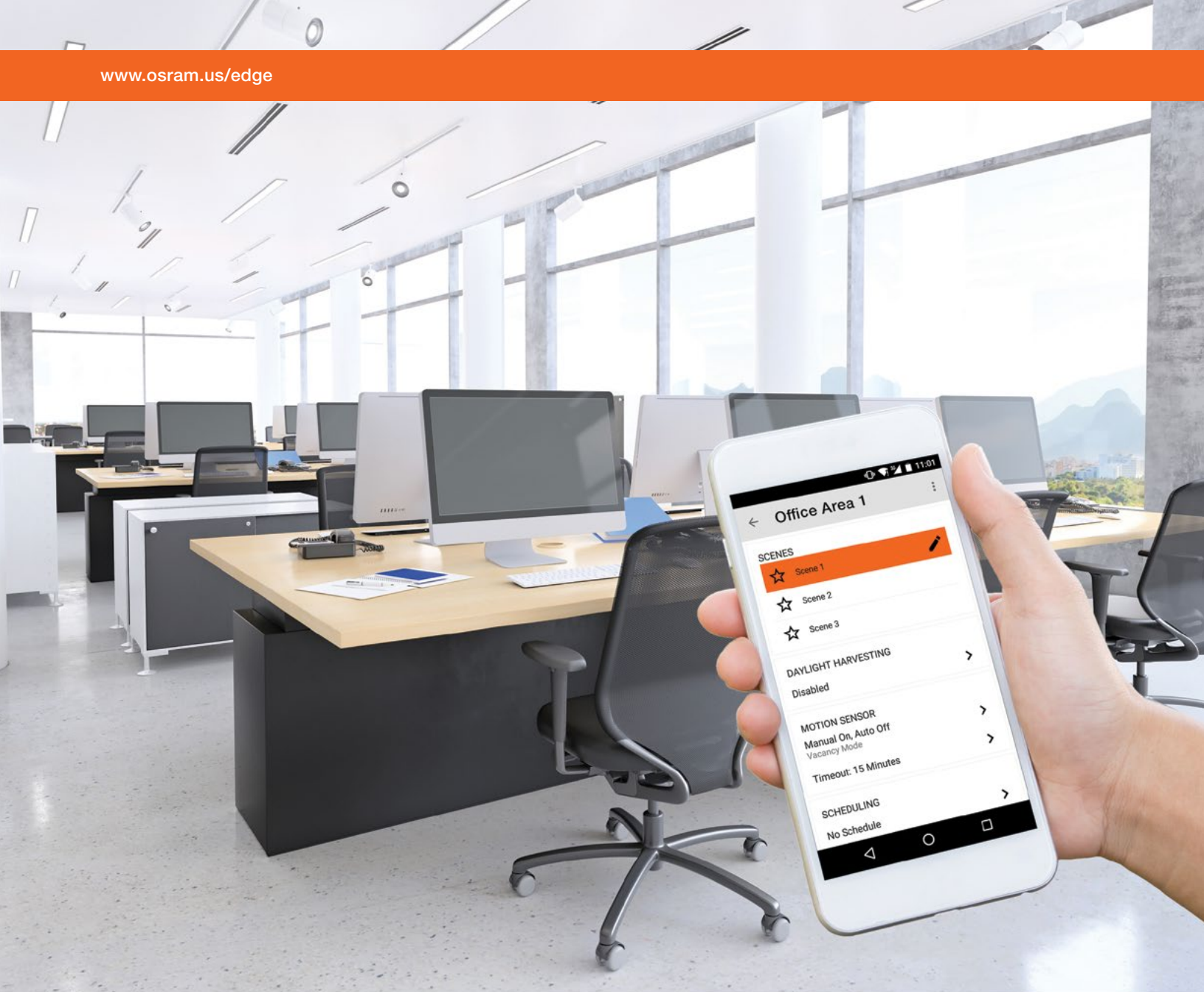




Light is simple

ENCELIUM EDGE™ Standalone Wireless Light Management System

A simple yet revolutionary light management solution
for small- to medium-sized commercial spaces.

Light is OSRAM

OSRAM



From concept to completion – the ENCELIUM EDGE™ System is simple

The ENCELIUM EDGE™ Standalone Wireless Light Management system is designed for non-residential spaces that seek a code compliant, energy saving solution without the complexity often found in a networked light management system. The ENCELIUM EDGE System meets basic lighting control requirements plus offers additional features and functionality that make sense for smaller and medium-sized spaces. It is ideally suited for small commercial offices, warehouses, educational spaces, or places where a wired solution is a challenge.

The ENCELIUM EDGE System is simple to specify, install, setup and manage. Using installed hardware barcodes and the ENCELIUM EDGE Mobile Setup App, installers can get your space up and running quickly with minimal disruption.

The ENCELIUM EDGE System also protects your investment by offering an easy upgrade path to Polaris 3D® software and the ENCELIUM® Networked Light Management System when more advanced features and functionality are needed.

Key Features & Benefits

- Each ENCELIUM EDGE Controller covers up to approximately 10,000 square feet and/or up to 100 nodes
- Code-compliant with ASHRAE 90.1-2016 and Title 24-2016
- Reduces energy usage from lighting by as much as 50-75%*
- Offers zonal and individual luminaire control enabling flexible lighting control schemes
- Plug load (PL) control and automated demand response (ADR) control
- Works with any manufacturer 0-10V dimmable ballast and LED driver
- Built on a mesh network based on ZigBee® standards.

*Energy savings is approximate and dependent on lighting schemes and energy management strategies utilized.



To learn more about the ENCELIUM EDGE System,
go to www.osram.us/edge

Why choose the ENCELIUM EDGE System?

Save energy. Save money.

- Become code-compliant (ASHRAE 90.1-2016, Title 24-2016 and similar)
- Reduce energy usage from lighting by as much as 50-75%*
- Optimize illumination and energy usage of lighting fixtures
- Leverage multiple energy management strategies (task tuning, occupancy control, daylight harvesting and more)

Flexible, future-proof

- Choose any manufacturer luminaire with 0-10V dimmable ballast or LED driver
- Support a range of environments and requirements
- Reconfigure easily using the ENCELIUM EDGE Mobile App as requirements change and grow

Fast install, minimal disruption

- Get up and running quickly with pre-set default lighting schemes
- Minimize building and occupant disruption and downtime
- Minimize dust levels during installation
- Minimize number of holes in walls and ceilings

An easy upgrade path

When you need the advanced features and functionality of a networked light management system such as data analytics, BMS integration, remote access and more, your ENCELIUM EDGE System can be upgraded to Polaris 3D® software and the ENCELIUM® Networked Light Management System. All of your hardware investment is protected as the ENCELIUM EDGE controller is upgradeable and the sensors, wallstations and control modules are designed to be compatible across both ENCELIUM Systems.

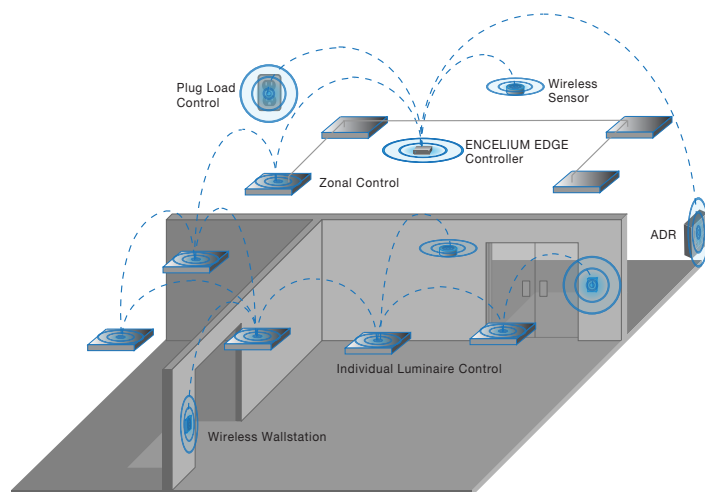
Is the ENCELIUM EDGE System the right choice for your space?

Use ENCELIUM EDGE Standalone Wireless Light Management System if	Use ENCELIUM Networked Light Management System if
Simplicity is paramount—from specification to installation to setup.	You have or have access to resources required to specify, install and commission an advanced light management system
You require basic functionality for the purpose of energy savings and meeting code compliance	You require advanced features and functionality that go beyond code compliance and energy savings such as data analytics and advanced energy reporting features, building automation system integration, and more
You do not require remote or web-accessible system control	You require remote or web-accessible system control
You do not require network integration or an enterprise-level system today	You are ready to integrate your light management solution with an automated building management system today

*Energy savings is approximate and dependent on lighting schemes and energy management strategies utilized.

ENCELIUM EDGE System architecture

Each ENCELIUM EDGE System supports up to approximately 10,000 square feet and/or up to 100 nodes. Leveraging a mesh network based on ZigBee® standards, the ENCELIUM EDGE Controller delivers dedicated commands to additional OSRAM hardware modules compatible with the ENCELIUM EDGE System. These include the Fixture-Integrated Connected Lighting Module (CLM), Wireless Area Lighting Control (WALC) Module, Wireless Plug Load (WPL) Control Module, Wireless PIR/Photo Sensors, and Wireless or Low-voltage Wallstations.



ENCELIUM EDGE System hardware

	ENCELIUM EDGE Controller	- Controls up to approximately 10,000 square feet and/or up to 100 nodes - Receives, processes and communicates lighting control information to and from luminaires, wallstations, PIR/photo sensors, CLM, WALC, WADR and WPL within the designated space via a mesh network based on ZigBee standards
	Fixture-Integrated Connected Lighting Module (CLM)	- Provides an interface between a luminaire and the ENCELIUM EDGE Controller enabling individually-addressable switching and dimming of a luminaire - Switches or dims industry-standard 0-10V dimming ballasts or LED drivers
	Wireless Area Lighting Control (WALC) Module	- Provides an interface between a group or zone of luminaires and the ENCELIUM EDGE Controller enabling group- or zone-based control of multiple luminaires. - Replaces the need for standard power relays or switch packs.
	Wireless Automated Demand Response (WADR) Module	- Accepts demand response signals from the BMS and relays them to the ENCELIUM EDGE Controller to enable automatic reductions in light levels. - Each WADR Module can accept Demand Response (DR) signals up to 24V.
	Wireless Plug Load (WPL) Control Module	- Provides general device control of an entire circuit of plug loads (20A) at the receptacle level - Can switch an entire circuit of plug loads (20A) in response to an occupancy signal and/or time schedule
	Wireless PIR/Photo Sensors	- Collects occupancy and daylight information from lighted space and communicates this data to the ENCELIUM EDGE Controller - Available in three options: 450 sq. ft. range with micro-motion sensitivity, 1500 sq. ft. range with high sensitivity core, and high bay with mounting height up to 40 ft. and coverage up to 2800 sq. ft.
	Wallstations	- Enables customized light level control - Integrated LED Indicators - User can select from 3 or 5 pre-programmed light levels or "scenes" with the push of a button



Quick and easy install and setup

Step 1:

Electrical installation of fixtures, ENCELIUM EDGE Controller and additional hardware modules.



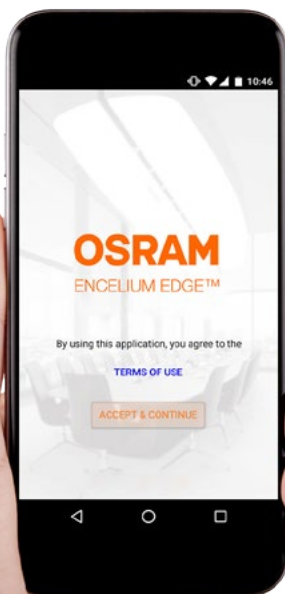
Step 2:

Electrician places hardware barcode stickers in supplied handbook.



Step 3:

Using the ENCELIUM EDGE Mobile Setup App, installers quickly **SCAN** the hardware barcode stickers, **GROUP** and connect them to the appropriate ENCELIUM EDGE controller, and **GO** to the next area on the installation list. Pre-set configurations initialize lighting control.



Step 4:

Download the free ENCELIUM EDGE Mobile App for simple scene programming changes such as daylight harvesting, time scheduling and individual fixture brightness levels.

Contact your local OSRAM representative for additional information about the ENCELIUM EDGE System.



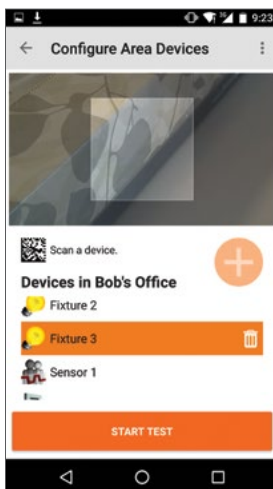
To learn more about the ENCELIUM EDGE Mobile Setup App, go to www.osram.us/edge

Complete lighting control in the palm of your hand



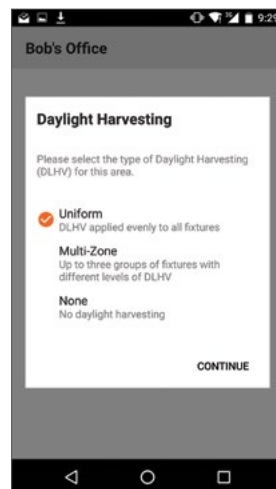
ENCELIUM EDGE Mobile App screenshots

Scan, Group and Go



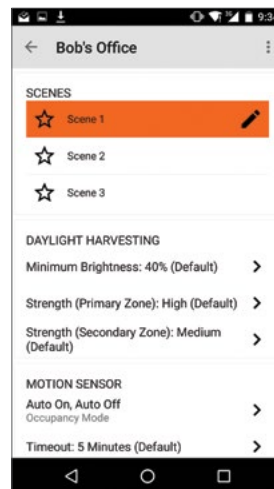
Devices assigned to the "area" are grouped as they are scanned and ready to go upon successful testing.

Daylight/Occupancy sensor configuration



Sensor assigned to the area can be configured to perform "Uniform" or "Multi-Zone" daylight harvesting or just occupancy sensing.

Scene Programming top level



Depending on the Wallstation installed, an area can be programmed to have 3 or 5 scenes.

Scene Programming detail scene level



To program a scene, adjust individual fixture brightness and "Save". All Lights bar displays the maximum brightness value of the fixture/s for the scene under consideration.

Mobile app screenshots shown may not reflect the latest updates.

Commercial office

Create an engaging space that supports worker productivity while also embracing an increasingly mobile workforce.

- Improve the tenant and employee experience using the latest lighting technologies
- Support individual task requirements and worker preferences
- Support flexible office space configurations.
- Meet energy code requirements (ASHRAE 90.1 & Title 24) and lower operating costs



Education

Make schools a better place to learn by making light an integral part of the education environment

- Eliminate glare, darken the room for projection, and have task lighting for specialized teaching areas
- Help students stay on task in the classroom with appropriate lighting
- Create less disruption and dust than wired solutions
- Install in phases to meet infrastructure budget requirements

Warehouse

Create a safe environment and improve worker accuracy by using correct levels of lighting where and when it's needed.

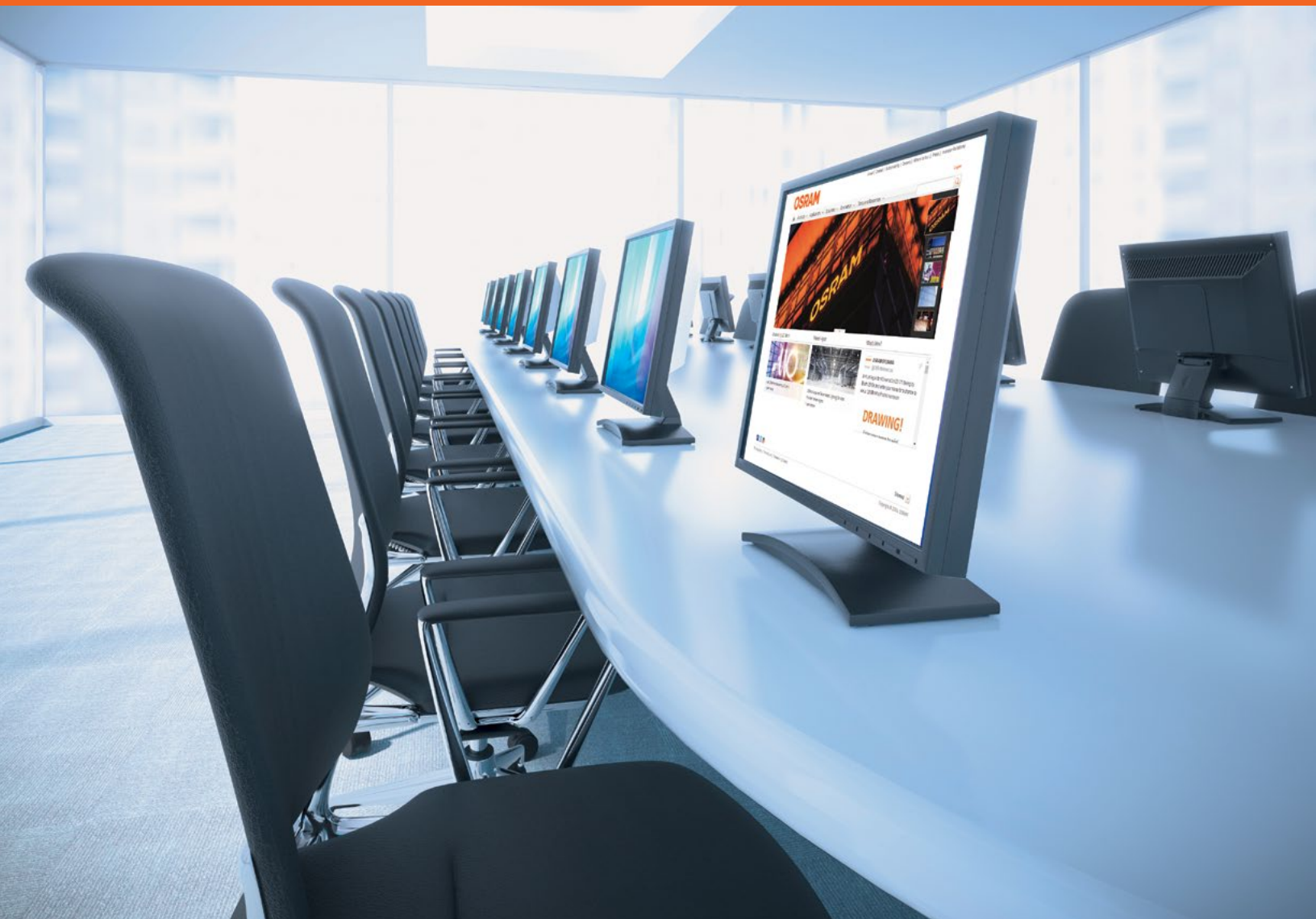
- Support a wide range of visual tasks from reading detailed paperwork to navigating a forklift
- Support changes in space configurations to optimize work flow
- Increase safety of employees and goods



Additional market applications

The ENCELIUM EDGE System supports a variety of lighting environments, space requirements and market applications including

- | | | |
|---------------------------------------|--------------------------|---------------|
| — Hospitals and Healthcare Facilities | — Hospitality and Retail | — Restaurants |
| — Museums and Cultural Institutions | — Places of Worship | — And, More |



For additional information on OSRAM Digital Lighting Systems products and solutions,
go to www.osram.us/ds

OSRAM SYLVANIA Inc.
200 Ballardvale Street
Wilmington, MA 01887 USA
888-531-7573
www.osram.us/ds

OSRAM is a registered trademark of OSRAM GmbH.
ENCCELUM and Polaris 3D are registered trademarks of OSRAM SYLVANIA Inc.
ENCCELUM EDGE is a trademark of OSRAM SYLVANIA Inc.
ZigBee is a registered trademark of the ZigBee Alliance.
Specifications subject to change without notice.

© 2017 OSRAM SYLVANIA Inc.

LMS126R1 11-17

OSRAM