

MyriaMesh Building Light Control

Productsheet MyriaMesh T8 LED Tubes

“If you control the light you control the building”

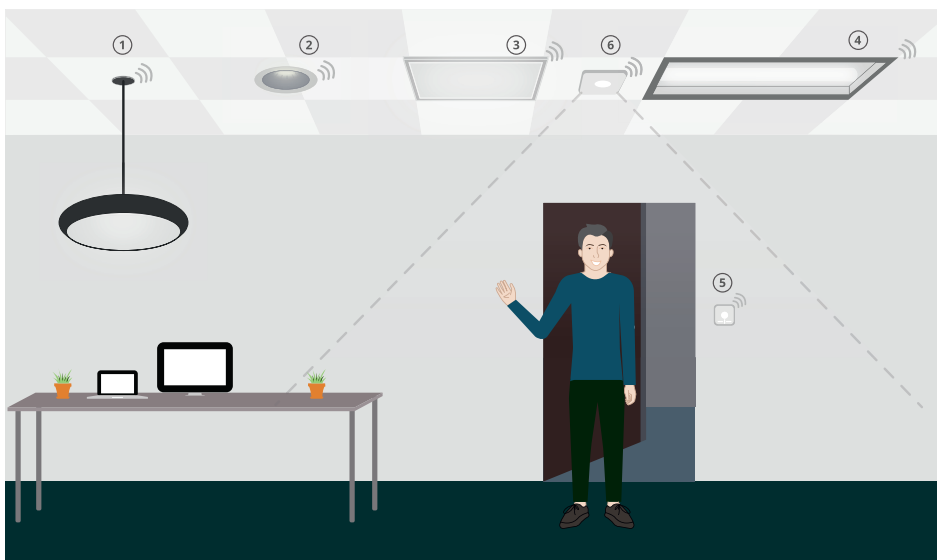
Retrofit any TL infrastructure into a smart LED lighting system with the MyriaMesh T8 LED Tubes

With the MyriaMesh T8 LED Tubes converting an existing linear fluorescent fixture into smart led lighting system has never been this simple. Our LED tubes are ideal for those who seek high energy savings with minimal installation time and costs. MyriaMesh tubes are operated by an integrated MyriaMesh smart driver and automatically form a wireless-sensor-and-control network that is self-organizing and self-synchronizing, resulting in a robust and scalable smart lighting system that inherently is the foundation for a smart building. The integrated smart T8 driver enables switching and dimming.

Technical summary

A MyriaMesh T8 LED Tube operates in the 2.4GHz ISM band. The MyriaMesh network protocol ensures a resilient and reliable connection. The MyriaMesh T8 LED Tube is fitted with an internal antenna providing enough reach for most indoor office and industrial applications. Every MyriaMesh T8 Tube acts like a repeater for the next device, expanding the range and reliability of the wireless network.

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Design luminaire 	Downlighter 	Led panel 	T8 Led tube
Remote Switch 	Multi-Sensor 	Simple installation 	Data services business model

Easy installation

MyriaMesh tubes are easy to install due to the retrofit and ballast compatible design. The tubes fit into existing luminaires without any adjustments, you don't need to disconnect the magnetic ballast or use a substitute starter! An electronic ballast needs to be removed.

Features

- 3,000 to 3,600 lumen options available
- 150 lumens per watt (LPW)
- Choice of two color temperatures 3000° K, 4000° K
- 50,000 hour lifetime, reduce maintenance cost
- 40% (minimum) to 80% energy savings with light control
- Dimming and switching
- On-the-fly (re) commissioning with the MyriaMesh app for iPad
- Connect to third party backoffice/ light management system

Network features

- Wireless, stand-alone network that is self-organizing and self-healing
- 2.4GHz communication for reliable data transfer
- Secure by design
- Ultra-scalable to > 10.000 fixtures in one network
- Low operational cost
- Option to employ the network to control other building systems

Note:

- The MyriaMesh T8 LED Tubes productsheet is subject to change.
- V0.2 24/07/2017

Technical specifications

General parameters

Dimensions (L)	1200 or 1500 mm
Material	Opal glass
Weight	270 gr or 330 gr
Color	White
Bulb shape	T8
Base	G13
Certification	CE Marking
Protection degree	IP20
Warranty	5 years
Lifetime	>50.000 h
Ambient temperature	-25°C ~ +40°C
Storage temperature	-25°C ~ +65°C
Working humidity	5% ~ 95%
Storage humidity	5% ~ 95%
Height	<2000 m

Photometrical parameters

Color temperature	3000 or 4000K
Color rendering index	>83 CRI
Glass cover lumen output	3000 or 3600 lm
Beam angle	330°
Efficiency	150 lm/W

Electrical parameters

Working voltage	230VAC +/- 10% (50Hz)
Power	22W or 26W
Power factor	>0.90
Over current protection	Yes
Max temperature protection	Yes
THD	26%
Max inrush current	<I _{max} , softstart
I _{max}	200 - 300mA
Standby power	<0.2 W

Wireless control parameters

Radio	2.4Ghz ISM band (2.400 - 24835Ghz)
Dimmable	5 - 100%
Initial light level	0 - 100%
Fade time	100ms - seconds
Groups	8

Product number	Length mm	Color in Kelvin	Watt	Lumen output	Lighting angle	L/W	CRI	Lifetime
5606.8123.001	1200	3000	22	3000	330°	150	83	50.000hrs
5606.8124.001	1200	4000	22	3000	330°	150	83	50.000hrs
5606.8153.001	1500	3000	26	3600	330°	150	83	50.000hrs
5606.8154.001	1500	4000	26	3600	330°	150	83	50.000hrs

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