DOTOO.LINE
POWER OVER ETHERNET (PoE)
## SUSPENDED DIRECT-ONLY LUMINAIRE

DOTOO.line**,** Waldmann`s LED direct-only suspended linear luminaire, is available in a single or modular system of standard 4ft or 8ft sections interlinking using different start, middle and end luminaires for creating light lines. Featuring efficiency-boosting reflection technology and a conical prismatic screen, DOTOO.line ensures uniform illumination of the workspace. The luminaires are also maintenance-friendly due to easy access to the driver, mechanical and electrical connections, and not requiring tools. With Power over Ethernet, the DOTOO.line's data is accessed via software and the light's dimming, timing, sensors, light color, and daylight harvesting can all be easily controlled. LUM CONNECT VTL, biodynamic light control, that mimics the changes in sunlight that occur with the course of the day, can also be implemented with this fixture.
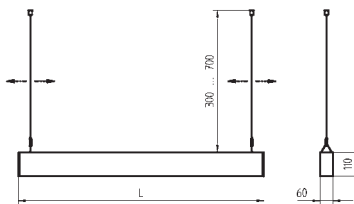
Suspended Direct Only luminaire DOTOO.line

Luminous Intensity

C0-C180	C90-C270
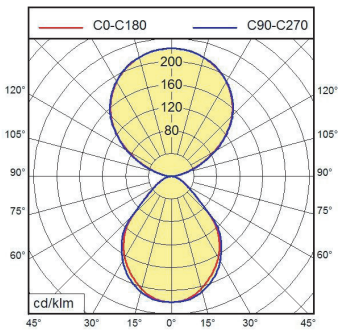
fitted with	LED
work equipment	Molex | CoreSync
connected load	PoE
power consumption	approx. 6.5 - 26 W
luminous flux	approx. 750lm - 3000 lm
luminous efficacy	approx. 119 lm/W
light distribution	direct only
direct ratio	100 % direct
light color	3000K, 3500K, 4000 K, VTL (2700-5700K)
color rendering index (CRI)	> 80
consistent white light of	< 3 SDCM
glare-free	conical prismatic screen
luminance	< 2600 cd/m²
unified glare rating	< 16
system of protection	IP 40
technology	power over ethernet
usage	internal PoE Driver
luminaire body	sectional aluminium
lamp cover	acrylic clear
weight (net)	approx. 3.3 kg, (7.27 lb) - 7.5 kg (16.53 lb)
mains lead fastening	approx. 1,0 m, 3.28 ft; with free stranded wires
fastening	steel cable 0.3 - 0.7 m, (1 - 2.3 ft)
dimension	nominal 2ft, 3ft, 4ft, 5ft, 8ft, linear-x

POE	-	DO	-	L	-		-		-	
Voltage		Distribution		Mounting		Length		CCT		Color
Power over		Direct Only - DO		Linear Pendant - L		(Nominal)		3000K - 35		White - W
Ethernet -						2 foot - 2		3500K - 35		Black - B
POE						3 foot - 3		4000K - 40		Gray - G
						4 foot - 4		2700 - 5700K - VTL*		
						5 foot - 5		*(Only available in 4ft increments)		
						8 foot - 8				
						LNx - enter x feet				
						in increments of 2ft				
						(Consult factory)				

Dimensions (mm)

300 ... 700

110

L

60

Waldmann W
ENGINEERS OF LIGHT

SYSTEM ARCHITECTURE ❯

Remote Interface / Tech Support

User Interfaces **IBMS Dashboard**

Molex NCS Manager

Efficiency

Productivity

**Local LAN
Wifi Router**

MANAGEMENT LAYER

UPoE NETWORK

COMM & POWER LAYER

**PoE
Gateways**

**Wireless
Sensors**

**Wireless
Self Powered
Wall Switches**

Sensor

**Wireless
Line Voltage Control Module**

AC 120V-277V

DEVICE LAYER

LED Fixtures   **Linear Light**

**LED Fixtures
Daisy Chained**

High Wattage LED Fixtures
120VAC to 277VAC

▬	CAT 6
▬	AC LINE VOLTAGE
▬	HARNESS
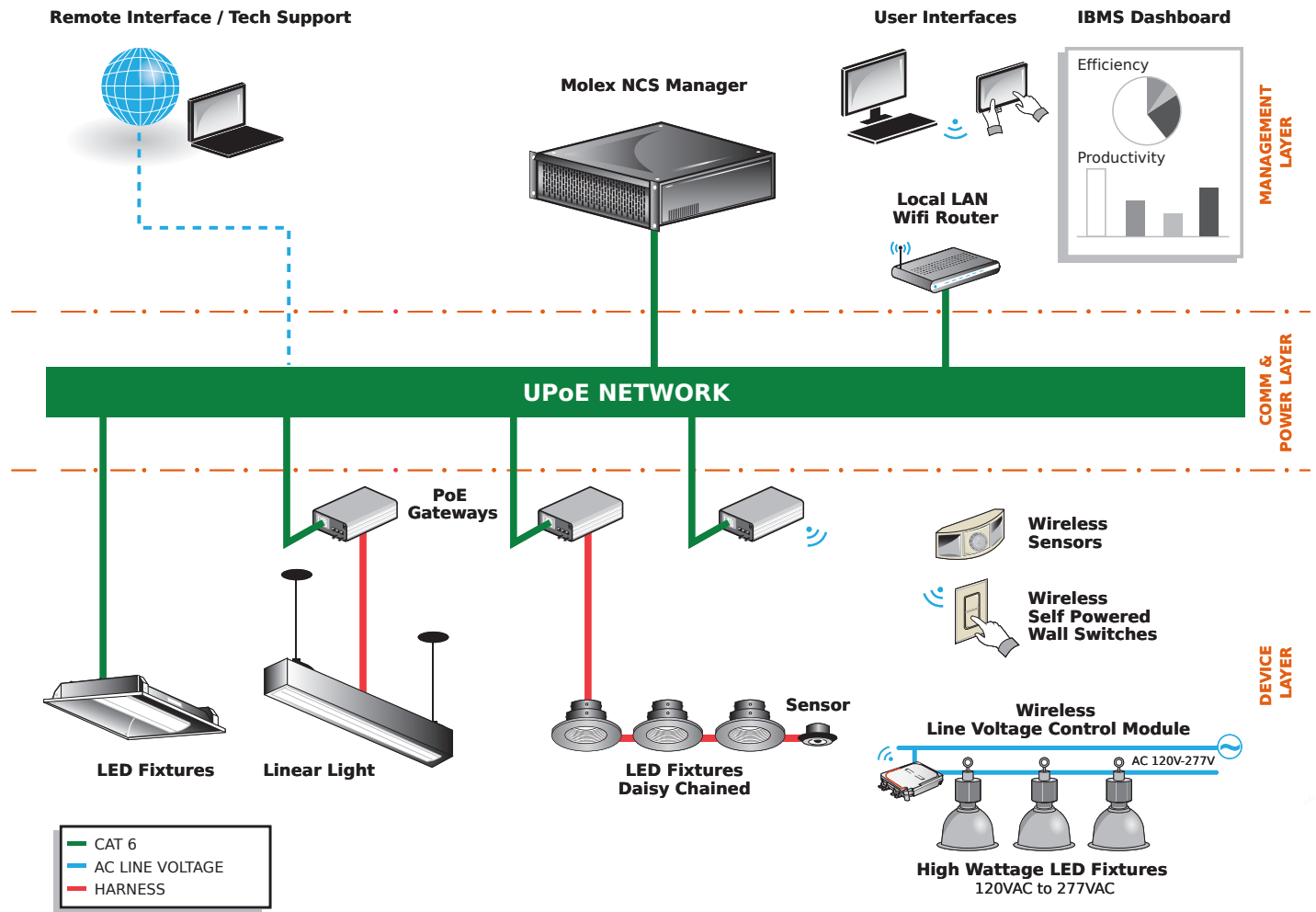
WHY PoE LIGHTING?

- Power and data over single-layer infrastructure
- Safe and cost effective to install
- Based on Ethernet standard
- Future proof and upgradable
- Human centric control with tunable luminaires
- Lights can be used to communicate information to users
- Can be integrated with other systems
- Highly secure
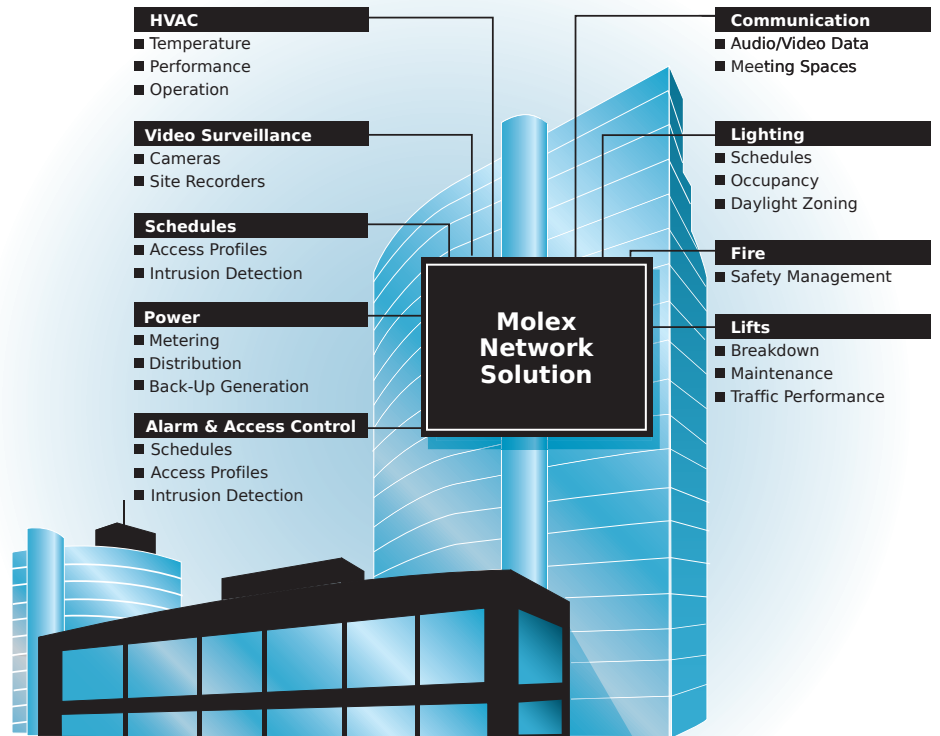- Creates the possibility for new data analytic schemes

A NEW LIGHTING PARADIGM ❯

Lighting as a Service for Integrated Smart Buildings

The ability to migrate lighting controls to IP-based infrastructure makes lighting a service and an IoT building asset that can be controlled synergistically along with other building functions.

More integration means not only better control, but also more data and information being collected by a distributed sensor system as part of the lighting network.
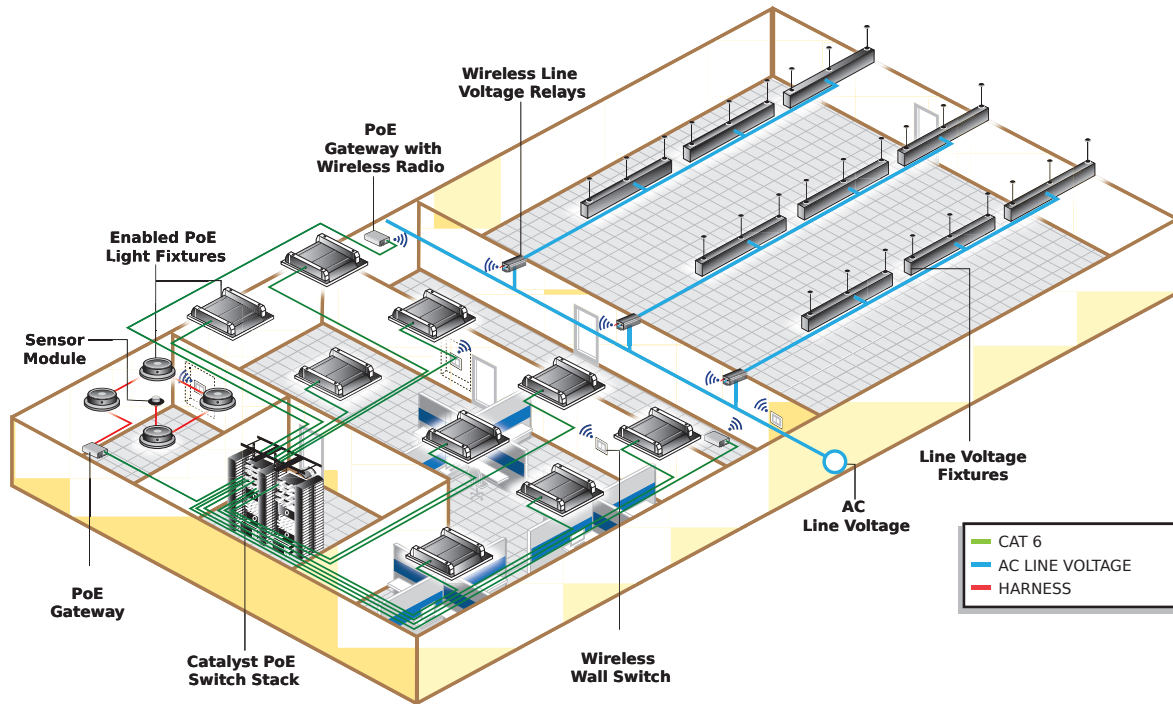
Molex Network Connected Lighting will dramatically accelerate the integration of the IoT into commercial buildings.

HVAC
- Temperature
- Performance
- Operation

Video Surveillance
- Cameras
- Site Recorders

Schedules
- Access Profiles
- Intrusion Detection

Power
- Metering
- Distribution
- Back-Up Generation

Alarm & Access Control
- Schedules
- Access Profiles
- Intrusion Detection

Communication
- Audio/Video Data
- Meeting Spaces

Lighting
- Schedules
- Occupancy
- Daylight Zoning

Fire
- Safety Management

Lifts
- Breakdown
- Maintenance
- Traffic Performance

Molex Network Solution

Occupant Satisfaction

Efficiency

Productivity

Analytics

Space Optimization

WHY MOLEX: Together with leading construction engineering firms, Molex designs and optimizes solutions to improve operational efficiency and performance and to enhance occupant experience and productivity in offices, learning or healthcare facilities, hospitality, retail settings, industrial buildings, and others.
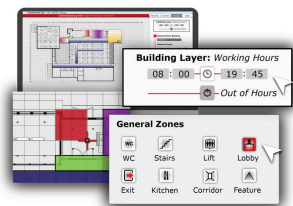
In the important area of LED lighting, we have worked with lighting fixture innovators and leaders, lighting designers and architects to develop connected solutions that define a new level in sustainability, ROI, property value and brand recognition.
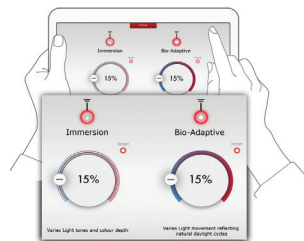
Waldmann **W**

ENGINEERS OF LIGHT

SYSTEM ARCHITECTURE ❯

Wireless Line Voltage Relays

PoE Gateway with Wireless Radio

Enabled PoE Light Fixtures

Sensor Module

Line Voltage Fixtures

AC Line Voltage

PoE Gateway

Catalyst PoE Switch Stack

Wireless Wall Switch

——	CAT 6
——	AC LINE VOLTAGE
——	HARNESS

Smart Building Manager

DESIGN	CONTROL	MANAGE	REPORT
Define spaces *Fixtures* *Sensors* *Create zones* *Schedules*	*Responsive control* *Dynamic scenes* *Intuitive user interfaces*	*Live data feedback* *Light status* *Building overview* *User zones*	*Energy savings* *Occupancy status* *Building analytics*

A FULL SYSTEM SOLUTION
WITH THE NCS ALLIANCE ❯

LIGHTS

The freedom to choose from a large variety of Waldmann CoreSync-ready lighting fixtures through our Alliance Partnership with the Molex CoreSync Connected Solutions PoE system offers unique flexibility to meet lighting requirements without compromising aesthetics.

GATEWAYS

At the heart of the Molex CoreSync Connected System, the PoE Gateway distributes power and connects luminaires, sensors and other devices to the CoreSync Manager. Each Gateway is connected to a Cisco® switch port with a Category cable, capable of receiving 60 watts using four pairs.
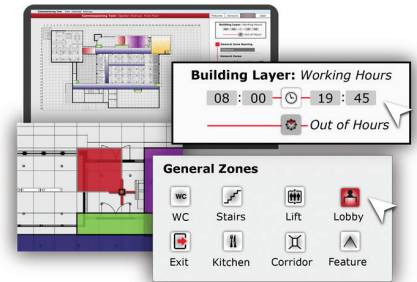
NETWORK EQUIPMENT

As a Cisco® Solution Technology Integrator, Molex integrates Cisco switches into the system.

NCS MANAGER

The Lighting Software Tool-set, leveraging amBX Smart Core technology, provides support during the complete lifecycle of a smart lighting control system, from design and installation to live operation and building maintenance. When compared to traditional methods, the Light Tool-set provides effective lighting in a fraction of the time.

Building Layer: *Working Hours*
08 : 00 — 19 : 45
Out of Hours

General Zones
WC   Stairs   Lift   Lobby
Exit   Kitchen   Corridor   Feature

CISCO <Technology>

SENSORS

Molex's Lighting Control provides an array of applications that enable the digital building. These applications feed multi-sensor information and data to a central host providing building analytics and applications: real time energy consumption, light status, temperature and humidity, occupancy, air quality, plus many more use cases.

| LUX LEVEL | PRESENCE | AIR QUALITY | POWER | COLOR TEMP | ON/OFF | TEMPERATURE & HUMIDITY |