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## **DOTOO.FIT**

### POWER OVER ETHERNET (PoE) RECESSED PANEL LUMINAIRE



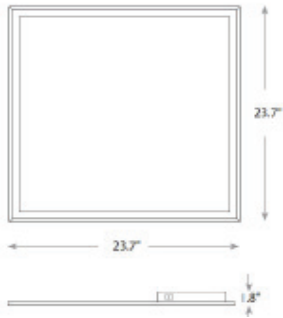
DOTOO.fit , Waldmann's LED recessed panel luminaire, provides efficient illumination of workplaces and rooms that have a particularly flat design with a uniform, homogenous direct light using edge-light and light-guide technology. The versatile, simple ceiling integration meets both national and international standard dimensions, various ceiling cut-outs and mounting situations.

Powered over Ethernet, the DOTOO.fit'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.

## recessed panel luminaire DOTOO.fit



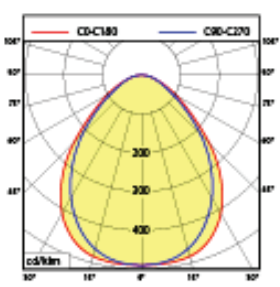
Dimensions  
(measurements in (mm))



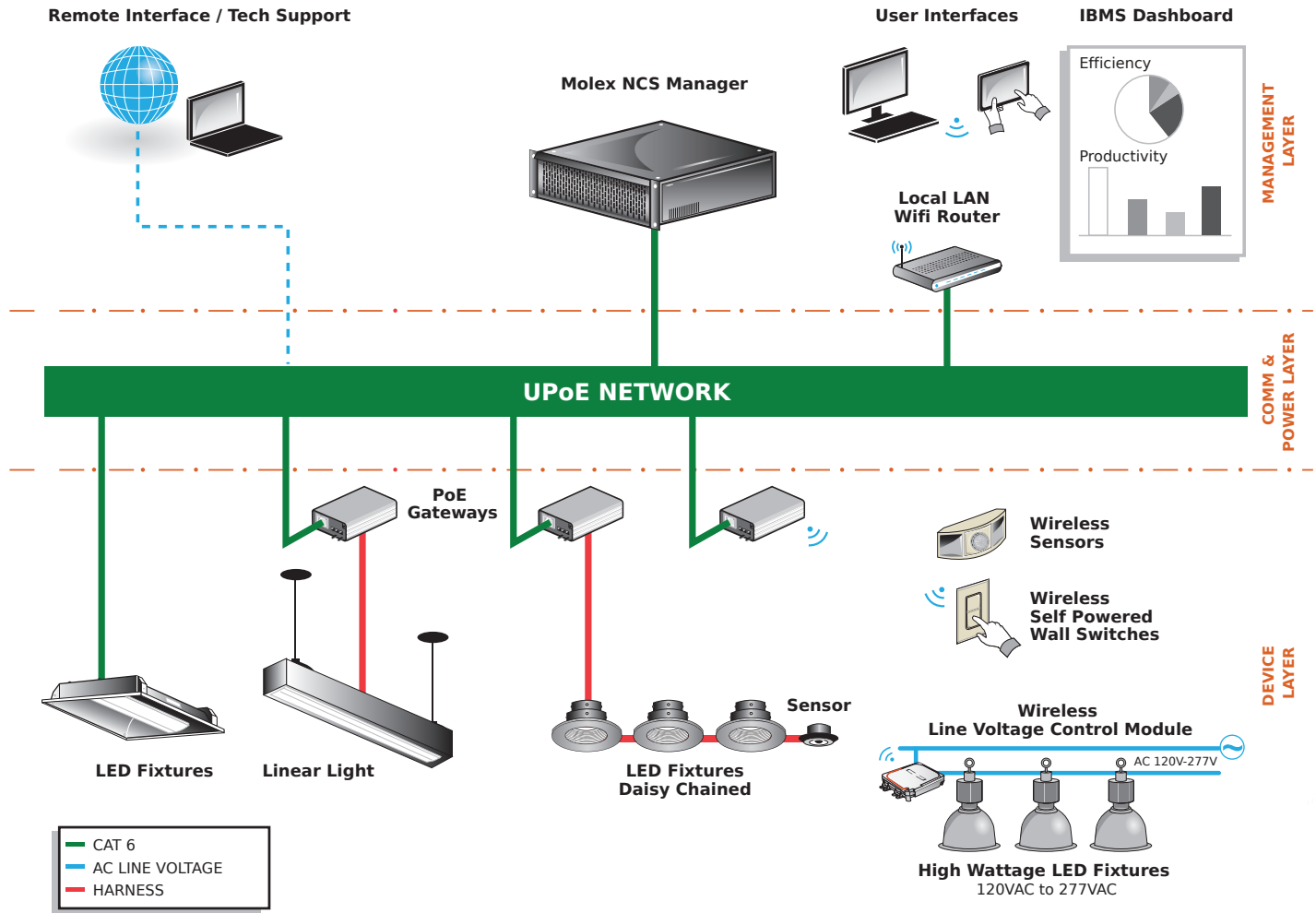
<b>fitted with</b>	LED
<b>work equipment connected</b>	Molex
<b>load</b>	PoE
<b>power consumption</b>	approx. 25 W
<b>luminous flux</b>	approx. 3125 lm
<b>luminous efficacy</b>	approx. 125 lm/W
<b>light distribution</b>	direct
<b>direct ratio</b>	100 %
<b>light color</b>	3500K, 4000K, 5000K, VTL (3000-5000K)
<b>color rendering index (CRI)</b>	> 80
<b>consistent white light of</b>	< 3 SDCM
<b>glare-free</b>	conical prismatic screen
<b>luminance</b>	< 3000 cd/m <sup>2</sup>
<b>unified glare rating system of</b>	< 19
<b>protection class of protection</b>	IP 20
<b>technology usage</b>	II
<b>luminaire body</b>	on board PoE driver
<b>weight (net)</b>	sectional aluminium, white
<b>mains supply</b>	approx. 4.4 kg (9.7 lbs)
<b>special features</b>	connector
	Direct light component with edge light and light-guide technology for homogenous light exit.

<b>DOTOO</b>	-	<b>FIT</b>	-	<b>D</b>	-	<b>POE</b>	-	<b>W</b>
		<b>Ceiling Grid</b>		<b>Distribution</b>		<b>Voltage</b>		<b>Color</b>
				Direct Only - D	2x2 - 2 2x4 - 4	3500K - 35 4000K - 40 5000K - 50 3000-5000K - VTL		

Luminous Intensity



# SYSTEM ARCHITECTURE



## 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



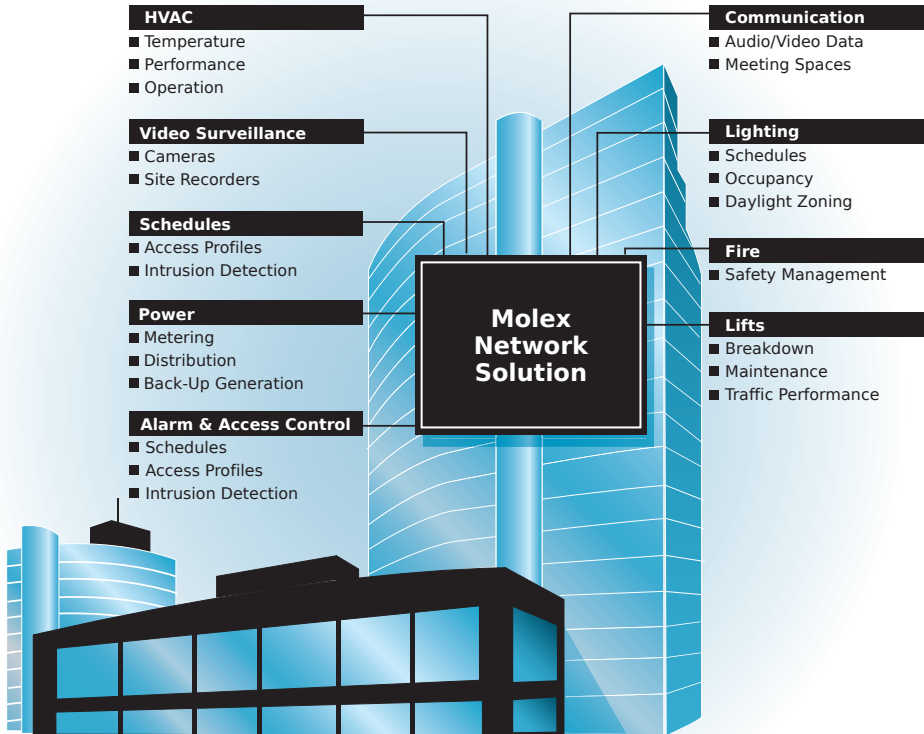
## A NEW LIGHTING PARADIGM >

### 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.

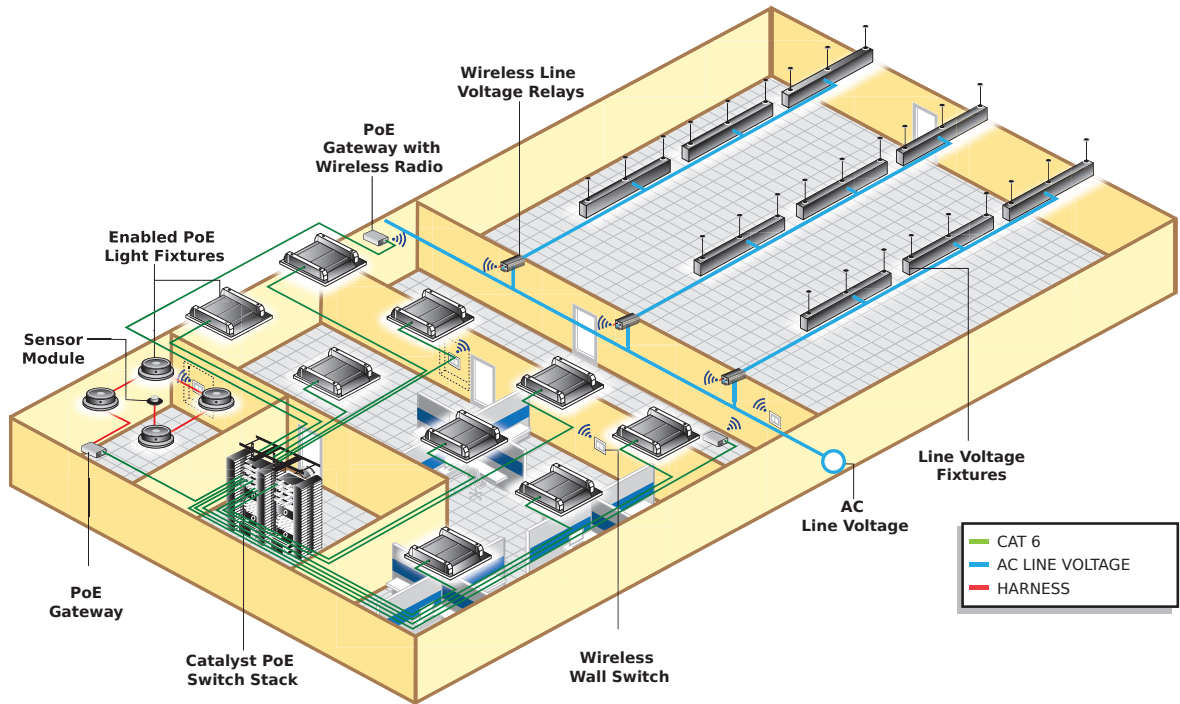
Molex Network Connected Lighting will dramatically accelerate the integration of the IoT into commercial buildings.



*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.*

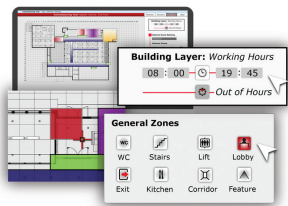
*In the important area of LED lighting, we have worked with lighting fixture innovators and leaders, lighting designers and architects to develop connected solutions that define a new level in sustainability, ROI, property value and brand recognition.*

# SYSTEM ARCHITECTURE >



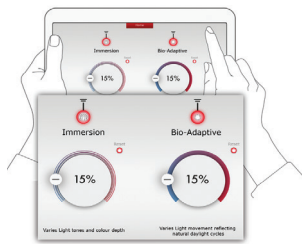
## Smart Building Manager

### DESIGN



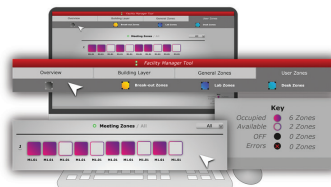
*Define spaces  
Fixtures  
Sensors  
Create zones  
Schedules*

### CONTROL



*Responsive control  
Dynamic scenes  
Intuitive user interfaces*

### MANAGE



*Live data feedback  
Light status  
Building overview  
User zones*

### REPORT



*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 NCS-ready lighting fixtures through our Alliance Partnership with the Molex Network Connected Solutions PoE system offers unique flexibility to meet lighting requirements without compromising aesthetics.



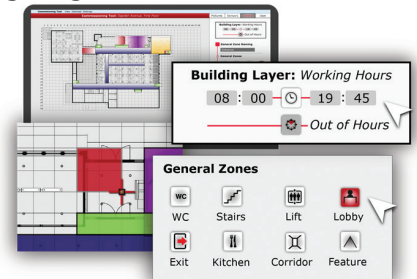
## GATEWAYS

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



## 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.



## NETWORK EQUIPMENT

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

## 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

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**Waldmann** **W**

ENGINEER OF LIGHT.