



Luminaires are a Building Asset

It's not just about illuminating a space.

TRIDONIC

LDL
lighting

Estimated 80% of today's
buildings will still be here in

2050 80%



LDL Lighting are partnering with Tridonic UK — leveraging their new market approach, Building Asset360, to address the challenges faced by Asset, Estate, and Facilities Managers, as well as clients managing their lighting assets.

The Building Asset360 approach concentrates on the operational phase of the building life cycle, treating the lighting luminaire as a building asset, similar to a boiler or an Air Handling Unit, which provides data on its health and performance.

Modern buildings have an average lifespan of 65 years, the majority of which falls within the operational phase. During this phase, the costs associated with maintenance, operations, and the personnel required to carry out these processes account for 92% of the total cost of a building. (as demonstrated by the RIBA model on the following page).

This makes the operational phase the most critical in a building's life cycle when considering overall costs.

LDL Lighting's luminaires specifically target this phase through Tridonic's Building Asset360 approach, delivering the greatest value to Building Owners, Facilities Managers, and Building Occupiers by reducing costs through predictive maintenance, wireless emergency testing, and more energy-efficient lighting.

LDL
lighting



TRIDONIC
Building
Asset360

LDL Lighting luminaires, utilising the Generation4 driver platform from Tridonic, have achieved a typical efficiency rating of 92.2%, an improvement on previous generations, emphasising the ongoing commitment to progress year after year in delivering more sustainable lighting solutions.

The Building Asset360 model looks at six key areas:

6 | Key areas

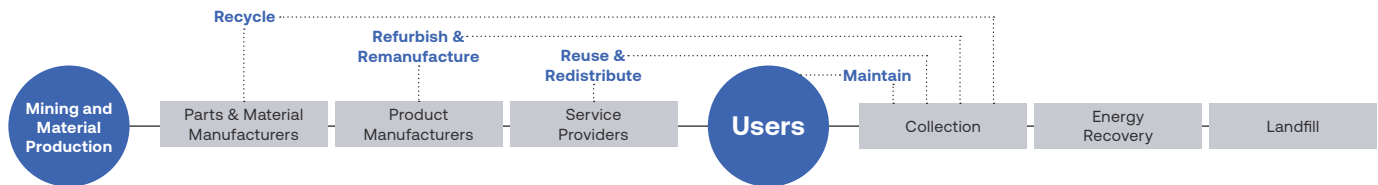
1

Sustainability

Net Zero Carbon – A whole life consideration.

Building Asset360 and Net Zero Carbon are linked by their whole life approach. The best way to Net Zero Carbon from Lighting is maximising the use of the lighting asset as described best by the World Green Building Council (WGBC).

The WGBC makes clear the best path to lowering embodied carbon to raise the overall sustainability of buildings is to maximise the use of existing assets and to explore opportunities to avoid construction altogether.



2

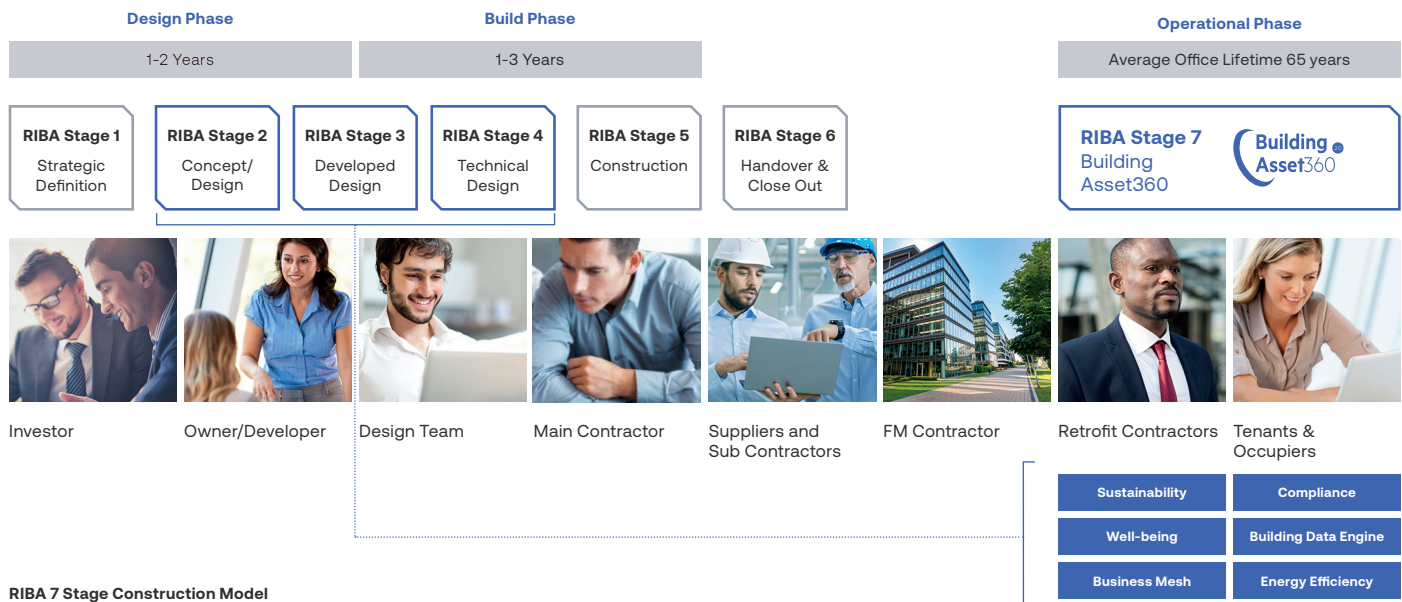
Energy Efficiency

Building Asset360 is an integral part of the luminaire being an energy efficient asset.

The Generation4 platform has achieved a typical efficiency rating of 92.2% an increase from previous generations highlighting our drive to continually progress year on year towards more sustainable lighting solutions

92.2%

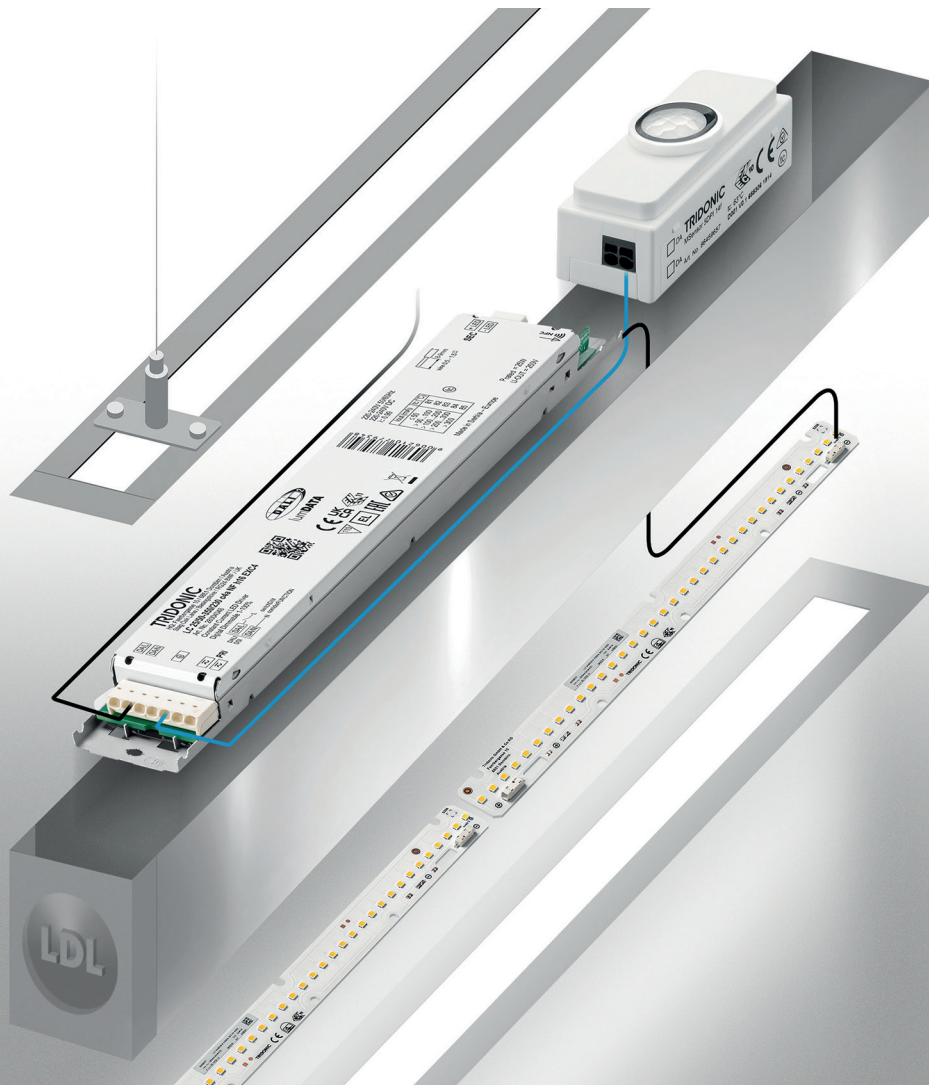
Lifecycle of a commercial building:



RIBA 7 Stage Construction Model

Luminaires must be more

than just something that illuminates a space...



3

Building Data Engine

Building Asset360 understands the luminaire as one the building data engines.

A key aspect of Building Asset360 is the concept of luminaires acting as Building Data Engines. This is further enhanced by the integration of Casambi-enabled wireless control technology, combined with Tridonic's Generation4 drivers within LDL Lighting's luminaires.

Data Specifications:

DALI 2 Part 251
Luminaire Data

DALI 2 Part 251
Energy Data

DALI 2 Part 251
Diagnostics Data



Asset Data
can be utilised to accelerate maintenance.



Fault and Diagnostic Data
can be utilised to enable condition based maintenance.



Energy Data
can be utilised to compare controls strategies.

4

Business Mesh

Building Asset360 sees luminaires as part of a wireless interoperable business mesh.

Building Asset360 views luminaires as part of a wireless, interoperable business mesh. This wireless lighting mesh enables other devices to be integrated, offering greater value than just lighting within a building.

Bluetooth wireless outdoor DALI Air quality sensor integrated **DALI 2** Sensor Xi





Scan the QR code
to learn more about
our lighting solutions
and projects.



5

Well-being

Building Asset360 sees a luminaire as part of a business well-being strategy.

LDL Lighting's luminaires now feature Tunable White and Human-Centric Lighting, enabling our clients' luminaires to adjust lux levels and temperature ranges to create the desired environment by utilising Tridonic's latest Generation4 driver technology.

Lighting temperature, intensity, and brightness are key factors that influence the health and well-being of those using different spaces within a building.



**Cool light
for morning**
To embrace
anew day.



**Warm light
for evening**
Customer
experience
and relaxing
atmosphere.

6

Compliance

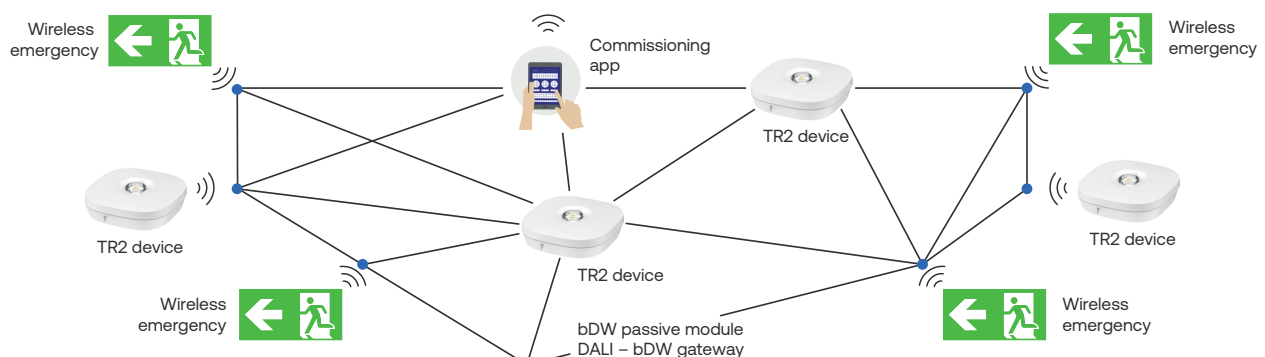
Building Asset360 is a key element of a business compliance strategy.

Fully automated wireless emergency lighting solution that forms part of the wireless business mesh for compliance.

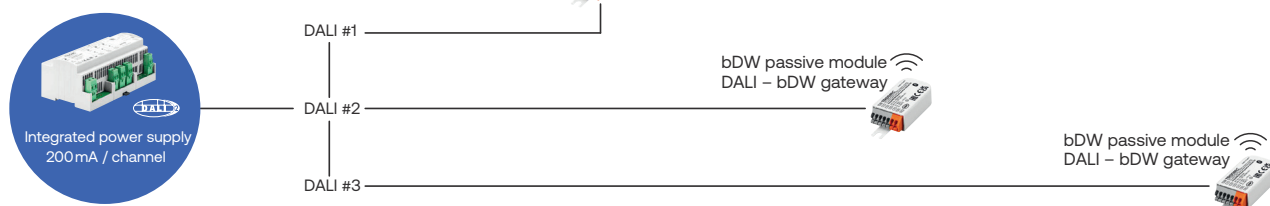


Product of the Year
Nominated sceneCOM EVO.

Bluetooth mesh network



basicDIM Wireless integration



If you are interested to learn more

about the solutions developed by LDL Lighting

please get in touch: 01942 629179 | sales@ldl.lighting

