CIBSE-certified CPD seminars on lighting management, Building Regs, Breeam, Leed, Estidama, DALI, IP and open protocols.

Delmatic offer CPD courses ranging from general overviews of lighting management to focus seminars providing in-depth studies of topics such as DALI, Building Regs part L, BREEAM, LEED amnd ESTIDAMA.

The courses, which have been assessed against best practice guidelines, are accredited by CIBSE and count towards an individual's CPD requirement.

Seminars last approximately an hour including 'question and answer' session and are typically held at a client's premises over a breakfast or lunchtime period: two hour in-depth courses are also available as are customised courses which are created to suit a particular client's requirements.

A summary of the 2017 range of CPD seminars is outlined on page 2 with detailed agendas for each of the individual seminars listed on pages 3 to 8.

"With their wealth of experience and breadth of applications on UK and international projects Delmatic were ideally placed to provide us with a factual, informative and enjoyable seminar."

contents

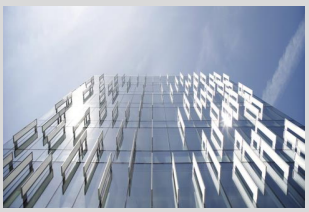
Seminar ref: 101

Overview of lighting management

This fast-paced seminar provides a comprehensive overview of lighting management including Building Regs Part L and BREEAM, DALI, open protocols and integration, Biodynamic controls, emergency light testing & monitoring, system architecture and application, and future trends including PoE and IOT.

Seminar ref: 105

Detailed design and application



Where do you start when applying lighting management to a project? This seminar studies the various approaches and technologies, and reviews their application based upon project type, light sources, degree of flexibility required, and installation approach. The seminar recommends optimum approaches for typical project types & building areas.

Seminar ref: 108

Building Regs Part L & BREEAM

This detailed seminar studies Building Regulations Part L2 (2013 edition) and BREEAM (2014) on a clause by clause basis, and assesses how lighting management systems meet Part L and assist in achieving the highest BREEAM ratings. The session also investigates how integration with HVAC and solar shading can achieve higher BREEAM scores.

Seminar ref: 114

BREEAM, LEED and ESTIDAMA

This focussed session looks at three international design programmes – BREEAM 2014 LEED V4, and ESTIDAMA – studying their similarities as well as their differences and regional biases. The session assesses clause by clause how lighting management and open system integration assist in achieving the highest ratings for each of the schemes.

Seminar ref: 117

DALI

This seminar focuses on DALI, studies the technical and installation considerations, discusses the various ways in which DALI can be applied and the benefits of the various approaches, reviews ways to avoid on-site addressing of DALI gear, and includes updates on DALI emergency testing and monitoring as well as future developments in DALI.

Seminar ref: 119

Open systems & interoperability

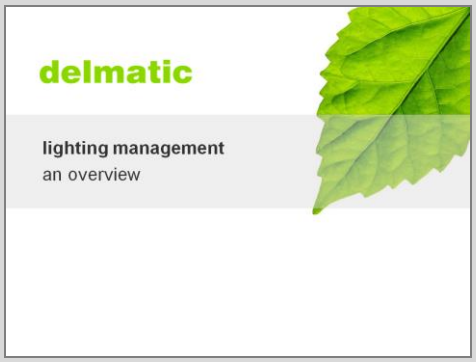
This seminar focuses on open systems and open protocol communication including the advantages of open protocols, technical benefits of integration and interoperability, as well as the capital cost and operational cost savings. The seminar includes approaches for typical projects with schematics routing delegates through the integration process.

Overview of lighting management

Seminar ref: 101

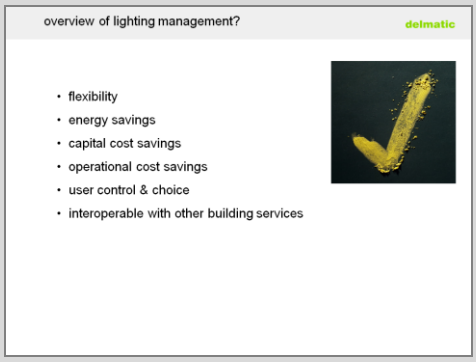
This seminar provides a comprehensive overview of lighting management systems covering key topics including Building Regs and BREEAM, system architecture, open protocols, interoperability & integration, DALI, emergency light testing & monitoring, latest Biodynamic lighting controls as well as considering future trends including PoE and IOT .

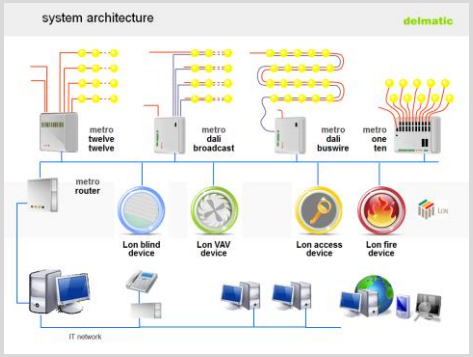
The fast-paced seminar is packed with animated schematics to explain the concepts of lighting management and the application of the various forms of control to different building areas and types of lighting, and provides challenging questions about how best to optimise energy efficiency within contemporary projects.



The overview seminar covers the following topics:

- overview of lighting control features and benefits
- overview of Building Regs Part L 2013 & BREEAM 2014
- introduction to open protocols – DALI, Lon, BACnet and IP
- advantages of open protocols
- interoperability & integration
- DALI technology and application
- DALI Buswire, DALI Broadcast and DALI Plug-in approaches
- biodynamic controls
- lighting management system architecture
- emergency light testing & monitoring
- project management
- graphical software
- PoE and IOT
- futureproofing





"Very informative presentation – I really enjoyed and benefitted from it"

Mark C. Director, UK Consultancy

Detailed design and application

Seminar ref: 105

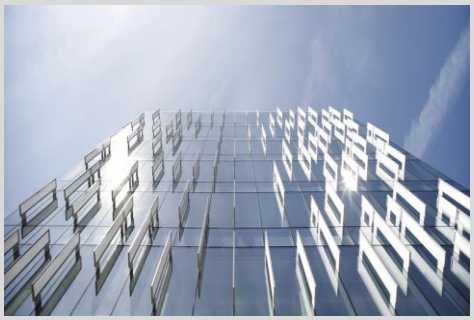
We are often asked “where should I start?” when applying lighting controls to a project, and this seminar provides the answers.

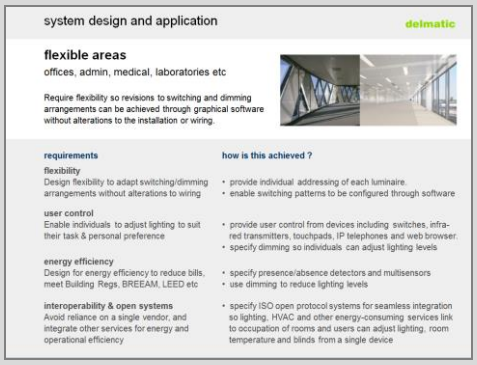
The seminar studies the various control approaches and technologies available and considers their application based upon the type of project, the lights sources to be controlled, the degree of flexibility required, and the preferred installation approach.

The seminar acknowledges that one size rarely fits all and that a typical project has many different requirements which are best met by selecting a hardware and control approach that best suits each individual area while forming part of a networked system.

The seminar covers the following topics:

- overview of lighting control and management
- what are you trying to achieve ?
- range of project applications
- range of flexibility requirements
- range of lamps and light sources
- range of control technologies – DALI, Lon, BACnet and IP
- putting it all together
- design and application – where to start your design
- system architecture – how to apply your design
- regulations and guidelines that will influence your design (Building Regs and BREEAM)
- enhancing sustainability through integration
- emergency light testing & monitoring
- how do other people do it ?





“Excellent seminar – gave a really a detailed insight”

Mark B. Design Manager, UK M&E Contractor

Building Regs Part L & BREEAM

Seminar ref: 108

Lighting management systems help meet the requirements of UK Building Regulations Part L and also achieve higher scores within rating and assessment methods such as BREEAM.

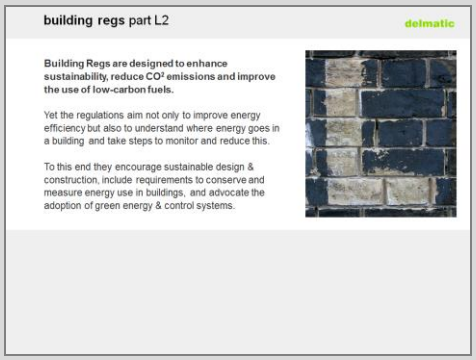
This seminar explores how lighting management systems meet the relevant clauses of Part L and maximise BREEAM ratings.

The detailed session studies the latest release of Building Regulations Part L2 (2013) on a clause by clause basis, exploring and debating each aspect, and challenging delegates to consider how best to apply lighting controls that meet the requirements for each of the space classifications defined within the standard.

The seminar also studies BREEAM 2014 (New Construction) and each relevant clause is discussed to ensure that maximum BREEAM ratings are achieved through the application of lighting management. The discussions look beyond lighting control to consider the additional benefits of integration and control of other services including HVAC and solar shading to achieve higher BREEAM scores.

The seminar covers the following topics:

- overview of lighting control and management
- introduction to Building Regulations Part L 2013
- clause by clause analysis of Part L 2013 and lighting control
- discussion of “key terms”, their meaning and interpretation
- introduction to BREEAM L 2014
- clause by clause analysis of how lighting management assists in achieving high BREEAM scores
- how integration and interoperability enhance efficiency



“the seminar was enjoyable, and your treatment of potentially dry information was good and stimulating”

Patrick E, Associate, National Consultancy Practice

BREEAM, LEED and ESTIDAMA

Seminar ref: 114

The application of lighting control and management helps achieve high scores within rating and assessment methods such as BREEAM, LEED and ESTIDAMA.

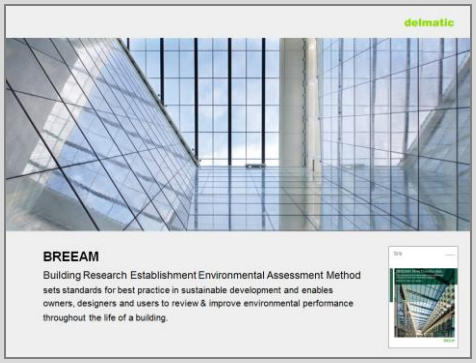
This detailed session looks closely at the three rating schemes - BREEAM, ESTIDAMA and LEED - and is of particular interest to project consultants and designers working on international projects which use one or more of these schemes as part of their assessment methods.

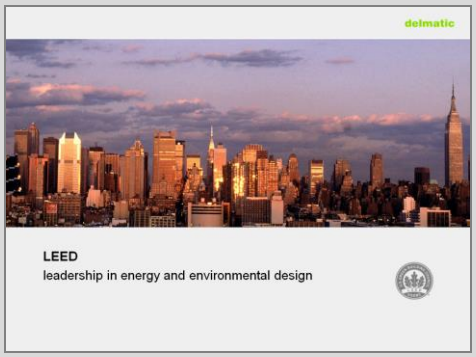
The seminar studies the three schemes on a clause by clause basis, studying their similarities as well as looking at their differences and regional biases. The session explores and debates each aspect, and looks beyond lighting control to consider the additional benefits of integration and control of other services including HVAC and solar shading to achieve higher ratings.

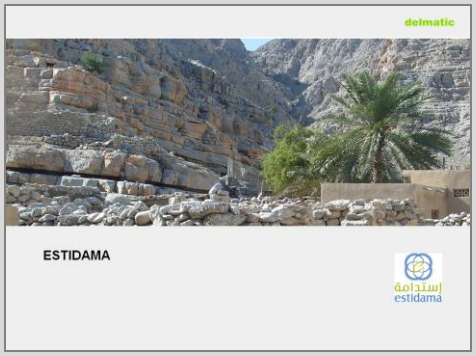
The seminar studies BREEAM 2014 (New Construction), LEED V4 and ESTIDAMA.

The seminar covers the following topics:

- overview of lighting control and management
- introduction to BREEAM, LEED and ESTIDAMA
- clause by clause analysis of BREEAM & lighting management
- clause by clause analysis of LEED V3 & lighting management
- clause by clause analysis of ESTIDAMA & lighting management
- how integration and interoperability enhance efficiency







"Excellent seminar, thank you very much for your detailed insight"

Madhav B, Design Engineer, International Consultancy Practice

DALI

Seminar ref: 117

DALI is the global standard for digital dimming and has resulted in lighting control and management systems being applied to a much wider range of project types than was previously the case.

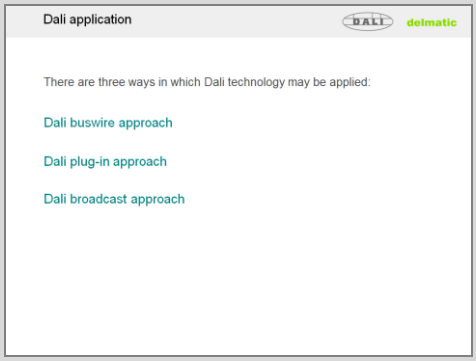
This seminar focuses on DALI technology and DALI protocol, looking closely at the technical and installation considerations of DALI, and exploring the various ways in which DALI may be applied.

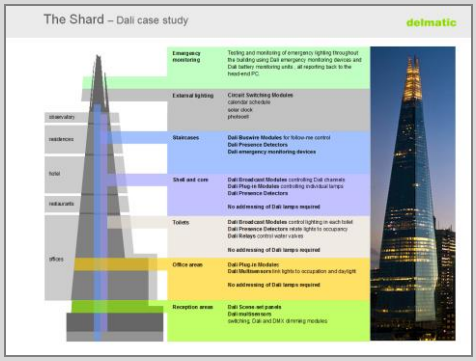
DALI is best known for the ability to individually address luminaires along a common buswire: what is less well known is that this is only one way to apply DALI and using other approaches can provide all the benefits of DALI without the need to address ballasts.

This seminar reviews the typical DALI Buswire approach as well as other approaches including DALI Broadcast and DALI Plug-in. The seminar also looks at the benefits of using DALI devices such as DALI presence detectors, DALI photocells, DALI multisensors and DALI switches which connect to the DALI buswire – which can halve network cabling – as well as using DALI relays and DALI for colour changing applications. The seminar concludes with an exploration of the latest in emergency lighting and testing using DALI.

The seminar covers the following topics:

- technical aspects and considerations of DALI
- DALI application - buswire, broadcast and plug-in
- comparison of the various DALI approaches
- DALI within a lighting management network
- DALI and integration with other services and systems
- design and application – where to start your design
- system architecture – how to apply your design
- DALI emergency light testing & monitoring





"I thought I knew about DALI – now I do!"

Tony L, Design Engineer, UK Consultancy Practice

Open systems & interoperability

Seminar ref: 119

Open systems are all around us, enabling us to sync devices, share images, documents & data with colleagues, family & friends, as well as communicate information with other devices around the world. However, all too often, buildings are equipped with stand-alone, proprietary systems that do not communicate or share information.

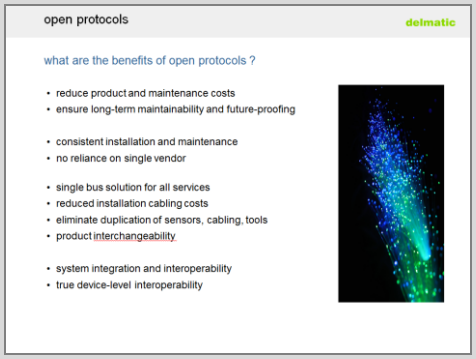
Proprietary systems tie clients into expensive and restrictive support from one vendor and limit potential for integration. By contrast, open, interoperable systems optimise efficiency by pooling key data and, by sharing hardware, offer enhanced operation at competitive cost.

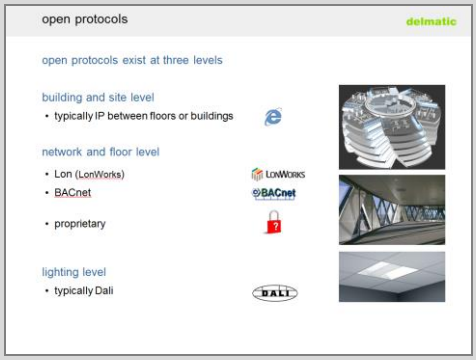
This seminar challenges delegates to look at open systems and interoperability, focusing on the advantages of open technology to consultants & clients, the technical benefits of integration and interoperability, as well as the capital and operational cost savings.

The seminar includes design approaches for typical types of projects, and a sequence of flowcharts and animated schematics guides delegates through the integration process.

The seminar covers the following topics:

- overview of lighting control and management
- introduction to open systems
- advantages of open systems
- introduction to open protocols –, Lon, BACnet and IP
- technical comparison of open protocols
- interoperability & integration
- optimising efficiency with open, integrated systems
- achieving capital cost savings through open protocols
- achieving operational cost savings through open protocols





"Very informative, especially in relation to open protocol integration with other applications"

Mark W. Project Manager, UK Contractor

about the presenters

Stephen Woodnutt, Managing Director

With more than twenty five years' experience in the lighting management industry, Stephen works at the leading edge of international lighting management design including the application of DALI and integrated open-protocol solutions.

Steve Hanover, Sales Director

With more than thirty years' experience in the lighting and engineering design fields, Steve is recognised as an expert on the design, layout and application of lighting management systems to UK and international projects.

when and where ?

Seminars are typically held within the client's premises at **breakfast** or **lunchtime**.

Breakfast seminars are increasingly popular because, after learning lots about lighting management, you can get off to site or other meetings and continue with the rest of the day's work without interruption!

Duration and Format of Course:

60 minute seminars including question and answer session.
90/120 minute in-depth courses are also available.

feedback from previous seminars

"Very informative presentation – I really enjoyed and benefitted from it"

"Excellent seminar – gave a really a detailed insight"

"I thought I knew about DALI – now I do!

"Very informative, especially in relation to open protocol integration with other applications

"Very educational, flowed well and no pauses – shows you know what you are talking about"

"Speaker was knowledgeable and answered all questions well"

"Very good; technical information is delivered with good clarity"

"Very clear presentation. Good methods of communicating complex issues"

"The contact and delivery were excellent"

"Very good presenter, well delivered, very knowledgeable"

"Well balanced discussion"

"Very well explained"

"Very useful – will recommend to another office"

"A very well presented course – I've learnt a lot. Thank you very much."

"The seminar was enjoyable, and your treatment of potentially dry information was good and stimulating"

for more information or to arrange a CPD seminar

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