



# Product information and installation guide



# Specto

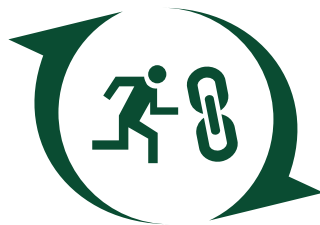
Specto is a family of emergency lighting test system solutions available at 3 levels:



## Specto

**Specto** in it's simplest form is a loop of standalone emergency luminaires and/ or signs that are linked back to a central switch.

These products are simple SELF TEST LUMINAIRES that randomly test themselves routinely in line with BS EN 62034. If a fault arises on any luminaire on the circuit it is reported visually both on the faulty luminaire and at a suitably located central switch plate.



## SpectoLink

**SpectoLink** permits a number of **Specto** areas , perhaps on different levels in a building to be reported to a single location say in a reception area or a facilities management office.

The test regime requires no manual intervention but for full compliance test results need to be maintained and recorded.



## SpectoWeb

**SpectoWeb** permits a group of up to 64 luminaires to communicate via the DALI protocol reporting test results to a central **SpectoControl** unit which has the ability to upload results via GPRS to the world wide web. The results are stored on the **SpectoWeb** site and, by password control, users are able to query and report on their site test history and receive warning emails when life critical emergency lighting is out of commission.

Importantly, test times can be controlled where testing could cause disruption to occupants if not managed, such as hotels, cinemas, theatres and hospitals wards.

EXIT sign	✓
Floods	✓
<b>Specto</b> indicator	✓
<b>SpectoLink</b> indicator	✗
<b>SpectoControl</b>	✗
<b>SpectoWeb</b> Access	✗

EXIT sign	✓
Floods	✓
<b>Specto</b> indicator	✓
<b>SpectoLink</b> indicator	✓
<b>SpectoControl</b>	✗
<b>SpectoWeb</b> Access	✗

EXIT sign	✓
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<b>Specto</b> indicator	✗
<b>SpectoLink</b> indicator	✗
<b>SpectoControl</b>	✓
<b>SpectoWeb</b> Access	✓

On larger sites, large numbers of luminaires can be grouped together on sub circuits and by using **SpectoExtra** these can be configured to report to a single **SpectoControl**.

Larger organisations may require alerts from multiple sites to be directed to a centralised facilities team. Multiple **SpectoControl** from different site locations units can be set up to report on one web account.

**SpectoWatch** is an annual contract to which users can subscribe to receive a routine annual service of the site, plus ongoing maintenance of any luminaires that report component failure - all in the contract price.

# WHY

British, European and international standards exist to ensure that products comply to safety standards but also so that buildings are safe to occupy and evacuate in an emergency.

Building designers must ensure that equipment is maintained, tested and test results recorded. Historically this has involved expensive man hours to perform battery discharge and function tests at monthly and annual intervals plus manual systems to record the results. **Specto** , **SpectoLink** and **SpectoWeb** provide ascending levels of automation to reduce this burden.

Building owners or their responsible persons are legally bound to test the emergency lighting, record test results and maintain their systems.

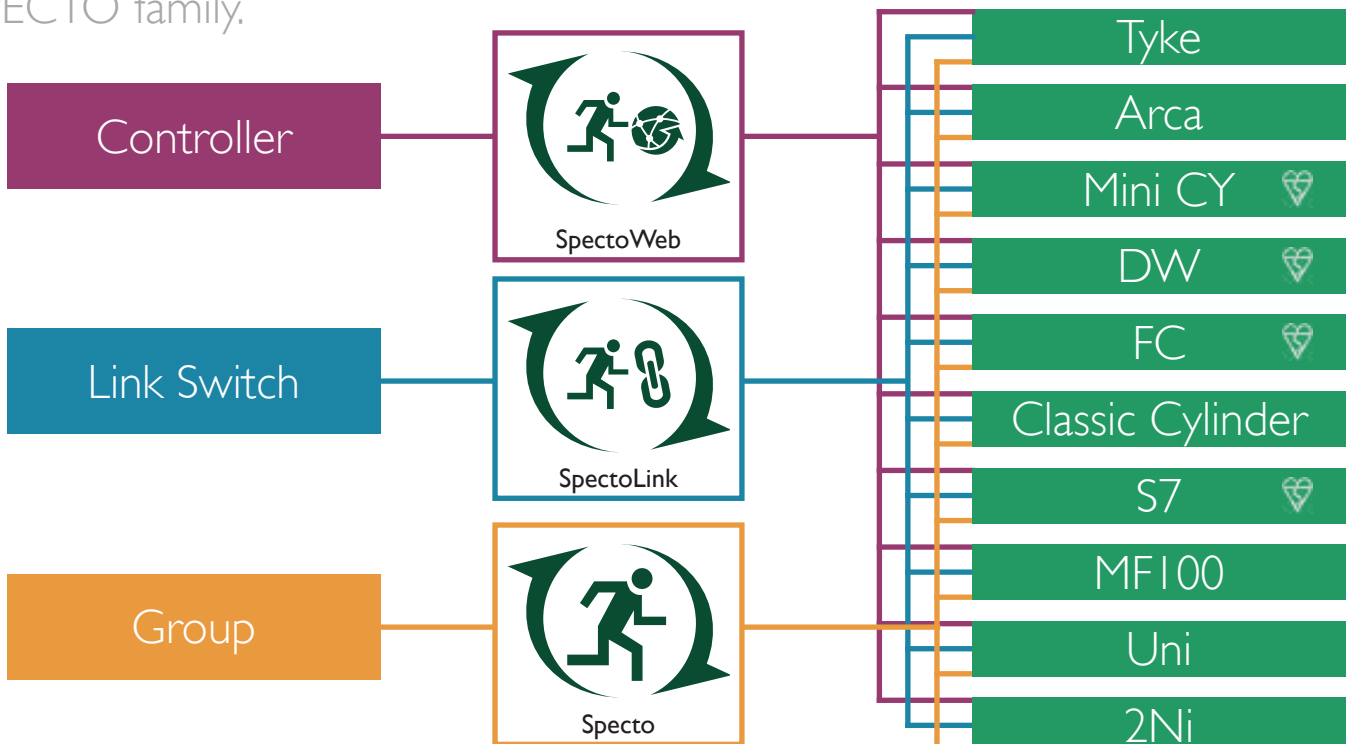
- Regulatory Reform (Fire Safety) Order 2005
- Building Regulations Approved Document B
- BS EN 1838:1999/BS 5266-7:1999
- BS EN 50172:2004/BS 5266-8:2004
- BS 5266-1:2011
- BS EN 62034:2012
- BS 5499-4:2000
- BS ISO 7010:2012
- SLL Lighting Guide 12 (LG12)

The emergency lighting design must take into account the following: (see Philip Payne Emergency Guide).

✓	Escape route signs
✓	Stairs so that each flight receives direct light
✓	Changes in level
✓	Changes of escape route direction
✓	Corridor intersections
✓	First aid posts
✓	Fire Alarm call points or pieces of fire fighting equipment
✓	External areas in the immediate vicinity of final exits
✓	Moving stairways and walkways
✓	Toilet facilities exceeding 8m <sup>2</sup> or any multiple closet facility without borrowed light
✓	Toilet facilities for disabled use
✓	Motor generator, control and plant rooms
✓	All other areas as deemed by the Risk Assessment

# WHAT

By using different internal electronics the entire range of Philip Payne exit signs, LED downlighters and flood luminaires is compatible across the SPECTO family.



# WHERE

Using mobile phone technology the SpectoControl box needs to be located in a position that offers a consistent GSM signal.

Philip Payne products can be made to work on any of the **Specto** levels.

**Specto** and **SpectoLink** are self contained within a building, however **SpectoWeb** communicates emergency lighting test results to the **Specto** Website. Every product, up to 64, is allocated with a DALI code at the Philip Payne factory before delivery. Every product is labelled so that their location can be recorded during installation.

The **SpectoControl** box is then able to identify the exact location on the site should any testing issues arise. An email is automatically generated and sent to nominated members of the management or facilities team in the event of a test failure.

The system is compatible with all major mobile networks but correct selection is operationally vital.

Before installation the **SpectoControl** box should be:

- Tested for network compatibility
- A mounting position selected:
  - a) close to an exterior wall
  - b) if possible high up within the building
  - c) that is not enclosed in or close to large metallic cabinets

The **SpectoControl** box continually polls and displays system status. It will upload tests results on a monthly basis, however between routine tests the users may perform a forced manual test and force-upload results at any time between routine live tests.



# Wincor Retail Ltd New Building Offices & Workshop

Installation: 31 January 2021



Luminaire status

65%



20 nodes

3

10 reports & problems

1

Luminaires installed

36

Luminaires reporting failure

0

Print ready

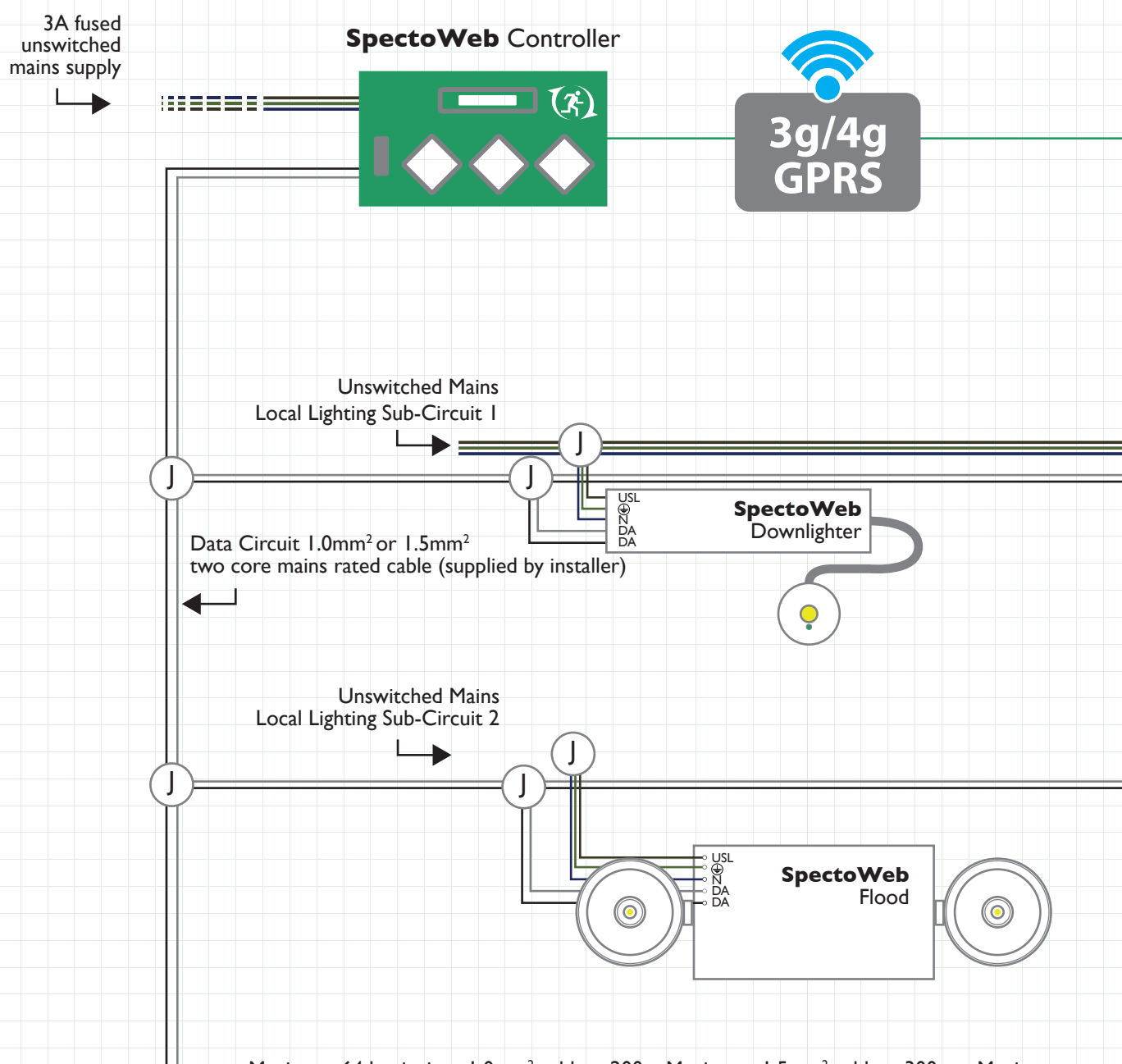
Document cloud

Archived Reports

# HOW

Wiring for SpectoWeb is simple. A 3A unswitched mains supply is required for the main controller. In addition to the local lighting sub circuit cabling each emergency product (up to a max 64) requires a 'comms' connection.

This requires regular 1.0mm<sup>2</sup> core/1.5mm<sup>2</sup> core cable up to a maximum distance of 200/300 metre from the controller. The system can be interrogated remotely via the website or locally using a mini laptop.



Maximum 64 luminaires. 1.0mm<sup>2</sup> cable = 200m Maximum. 1.5mm<sup>2</sup> cable = 300m Maximum



= Junction Box



= Exit Sign (Arca, Mini Cylinder, CF, S7, DW, FC)



= Downlighter (Tyke, Sprite)



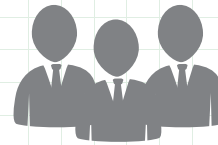
= Flood (Uni, 2-Ni)



= Final Exit (MF100)

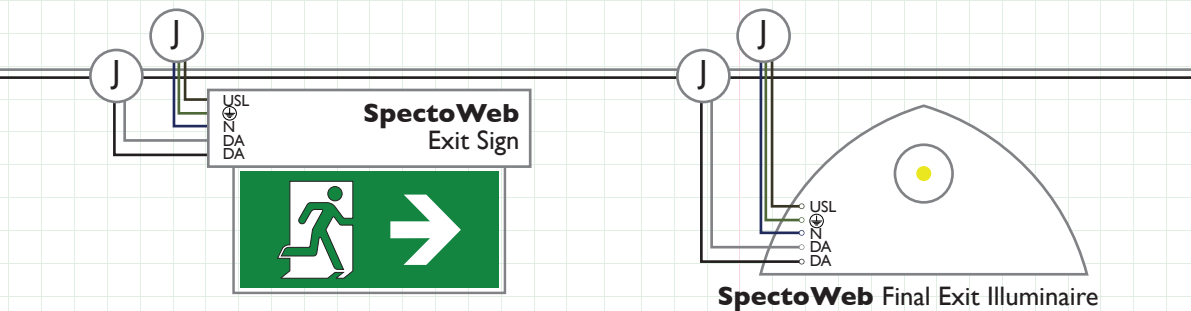
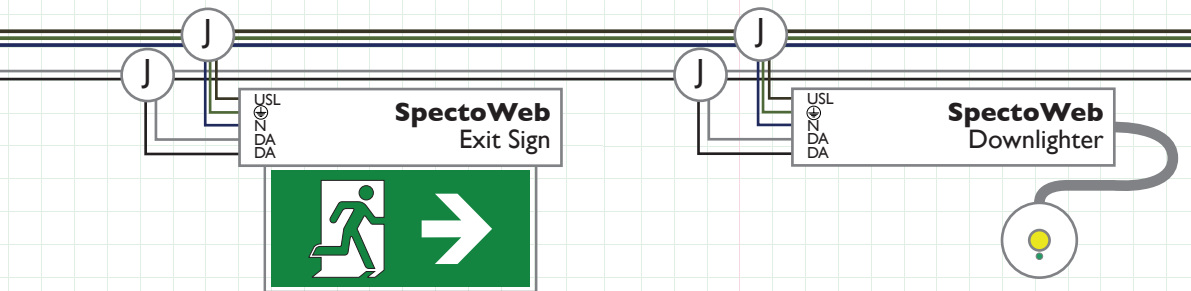
Transmits test results to the **SpectoWeb** monitoring web-site

emails of test reports sent to authorised personnel



Mini Laptop Option

Control/download directly from mini laptop



# WHO

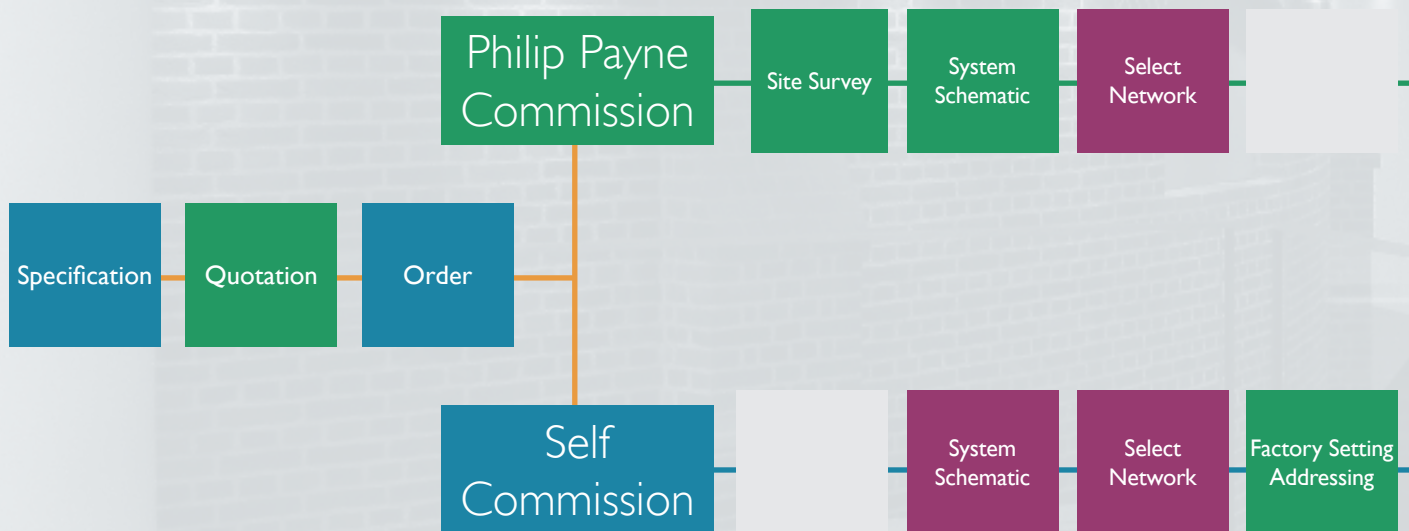
There are two commissioning options.

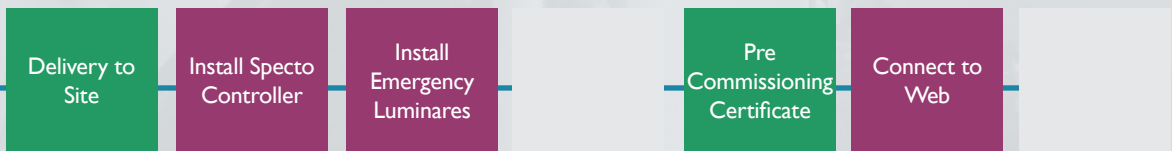
Clients choosing Philip Payne to commission the system start with a full site survey performed by our engineers and are fully assisted through to full commissioning.





Clients may elect to use their own installation contractors to install and commission the system. In these cases all products leave the factory pre commissioned and are addressed with the DALI short code ready for installation.

The final setup of the controller, site documentation required for the website and establishing comms with the **SpectoWeb** site becomes the responsibility of the installer before they hand over to the client.

Either way, once up and running, communication with and access to the website and the delivery of reports is the same.





 = Philip Payne     = Client     = Contractor     = N/A

# NEXT

To help us provide a smooth installation and ongoing service, certain information may be required.

The supply, installation and provision of information will differ dependent on the client/contractor preference to elect for self commissioning or Philip Payne commissioning. Either way on completion the client will receive routine confirmation of the health of the installation and notification of site problems when routine testing reveals an issue free of charge for 12 months.

## FAQ's

### Stage 1 : Pre Commission

Is there a requirement for pre installation visit?

Is a test for mobile phone network coverage and confirmation of provider required?

Who arranges the contract/SIM provision?

How is the commissioning date established?

How is the handover date established?

How do I know when the luminaires and controls will be delivered?

Is there a Pre Commissioning Certificate Issued?

Site layout drawings will be required for maintenance who prepares these?

All emergency luminaires need to be powered for minimum of 51 hours prior to commissioning - who will do this?

### Stage 2 : Commission

When Philip Payne visit site who advises on site restrictions/permissions/PPE and induction requirements?

Who arranges for website users to be nominated and registered for **SpectoWeb** notifications and site access?

Who uploads client specific parameters?

What if these parameters are subsequently changed?

During the commissioning will the emergency fittings be tested for short duration?

If there are any install snaggs will these be corrected?

Will a client demonstration be provided for purchased peripheral equipment (laptops etc)?

### Stage 3 : Post Commission

What happens to the Installation documents

Can I see the engineers completion report after handover?

What happens to the Commissioning Certificate?

How do I nominate users to access the website?

In addition to health of system what additional information is kept on the **SpectoWeb** site?

How often do I receive system health check emails?

How do I know if there is a problem?

## Contracts

Following the initial 12 month free web access the client will be offered an ongoing monitoring/maintenance contract.

Established clients will simply get a renewal email however, year one clients will need to decide on their choice of contract after 12 months.

**SpectoWatch** is the basic service providing free access to the web site and e mail for up to a maximum of 10 email recipients. This is ideal for users who do not want an up front maintenance contract and are happy to be charged on a day rate for site visits/rectification work or who wish to use their own maintenance resources.

**SpectoPremium** is the full monitoring and maintenance service. Any reported faults are notified to our engineers who visit site and rectify faults as they arise. Spares and replacements are included in the cost of the contract. (see notes)

The contract includes up to 12 visits per annum including an annual inspection.

### Notes

It is assumed batteries will last for 5 years.

Bulk battery replacement is excluded from the contract

When duration tests reveal 20% battery failure it is deemed time for bulk replacement

Clients can budget for bulk replacement by paying an additional charge annually equal to 20% of the expected replacement costs or buy in bulk from Philip Payne at discounted prices when required.

	Philip Payne Commission	Contractor Commission
	Yes Philip Payne will arrange this	N/A
	Yes the Contractor needs to advise Philip Payne	Yes the Contractor needs to advise Philip Payne
	Philip Payne will arrange this	Philip Payne will arrange this
	The Contractor will arrange this with Philip Payne	The Contractor will schedule his own resources
	The Contractor will arrange this with Philip Payne	The Contractor will schedule his own resources
	Philip Payne advise a delivery date via an acknowledgement of order	Philip Payne advise a delivery date via an acknowledgement of order
	No, one is not required if Philip Payne commission	Yes, this will be supplied by Philip Payne with the equipment
	Philip Payne will prepare these and upload them to the website	The contractor will need to prepare these for Philip Payne verification
	The contractor needs do this before calling Philip Payne to site to commission	The contractor needs do this before they self commission
	The contractor will advise/arrange this for Philip Payne engineers	N/A
	Philip Payne will make the necessary requests and implement	Philip Payne will make the necessary requests and implement
	Philip Payne will do this FOC during commission phase	The contractor will need to request this
	Return visits will incur a nominal charge	The contractor will need to request this
	Yes, Philip Payne will perform this	The contractor will be instructed to perform this
	Small issues are corrected at the discretion of the attending Engineer	The contractor will need to attend to these
	Philip Payne will do this FOC during commission phase	The contractor will need to demonstrate
	Philip Payne will provide these on handover	The Contractor will provide these
	Philip Payne will post this on the website	N/A
	Philip Payne will forward this to the contractor	Philip Payne will provide a precommission certificate
	Philip Payne send a welcome <b>SpectoWeb</b> email containing access information	Philip Payne send a welcome <b>SpectoWeb</b> email containing access information
	CAD drawings with luminaire addresses and locations are uploaded	CAD drawings with luminaire addresses and locations are uploaded
	These are automatically sent to agreed users at agreed timed intervals	These are automatically sent to agreed users at agreed timed intervals
	<b>SpectoWeb</b> will send email notifications of test failures	<b>SpectoWeb</b> will send email notifications of test failures



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Philip Payne Ltd registered in England No. 1361523  
We reserve the right to alter specifications without prior notice.



## Specto Helpline

For queries or help call direct on:

**0121 703 28 67**

[www.spectoweb.com](http://www.spectoweb.com)