Claims

1. An emergency lighting system for a building comprising a control node and plurality of emergency luminaires, wherein each of the plurality of emergency luminaires receives control signals directly from the control node across a wireless communications network, the control node being configured to transmit test initiation signals to each emergency luminaire, wherein the wireless communications network is a LoRa network.

2. An emergency lighting system according to claim 1, wherein each of the plurality of emergency luminaires is configured to receive a test signal across the LoRa directly from the control node, to activate a test procedure at the emergency luminaire on receipt of the test signal, and to transmit performance results associated with the executed test procedure directly to the control node.

3. An emergency lighting system according claim 2, wherein each of the emergency luminaires comprises:

a radio receiver for receiving the test signal directly from the control node;

processor for executing the test procedure at the emergency luminaire in response to receiving the test signal; and

radio transmitter for transmitting the performance results associated with the executed test procedure directly to the control node.

4. An emergency lighting system according to claim 3, wherein each of the emergency luminaires comprise an activation means and a performance measurement system, the processor initiating the test procedure by activating the activation means to activate a light source in the emergency luminaire for a predefined activation period, the performance measurement system measuring the performance of the emergency luminaire during the

activation period.

5. An emergency lighting system according to claim 4, wherein the performance of the emergency luminaire is the current and voltage performance during the activation period.

6. An emergency lighting system according to any preceding claim, wherein each of the plurality of emergency luminaires has a node ID, the node ID of the emergency luminaire being included in the performance results from the emergency luminaires.

7. An emergency lighting system according claim 6, the control node further comprising memory, the memory storing the node ID of each of the plurality of emergency luminaires.

8. An emergency lighting system according to claim 7, wherein the control node further comprising a processor, the processor configured to compare the node ID of each of the plurality of emergency luminaires stored in the memory with node IDs of the received results signals.

9. An emergency lighting system according to claim 8, the control node further comprising an alert system.

10. An emergency lighting system according to claim 9, the control node processor further comprising a clock, the processor being configured to activate the alert system if a results signal is not received from an emergency luminaire within a predefined time period.

~~11. An emergency luminaire when used in an emergency lighting system according to any one of claims 1 to 10.~~

~~12. A control node when used in an emergency lighting system according to any one of claims 1 to 10.~~

~~13.~~11. Method for testing the performance of an emergency lighting system for a building, the emergency lighting system comprising a plurality of emergency luminaires, comprising the steps of:

at a control node, transmitting a test signal from a

control node to each of the plurality of emergency lights; and

at an emergency luminaire receiving the radio test signal directly from the control node and activating a test procedure at the emergency luminaire on receipt of the test signal;

transmitting performance results from the executed test procedure directly to the control node; and

wherein the steps of receiving the radio test signals at the emergency luminaire and transmitting the performance results from the emergency luminaire are performed across a LoRa network.

~~14.~~12. Method according to claim ~~13~~11, comprising the further step of storing identification for each of the plurality of emergency luminaires at the control node.

~~15.~~13. Method according to claim 12~~14~~ comprising the step of comparing received performance results with stored identification to identify whether performance results have been received from each of the plurality of emergency luminaires.

~~16.~~14. A method according to any of claims 11~~14~~ to ~~16~~13, wherein each of the plurality of emergency luminaires has a node ID, the node ID of the emergency luminaires being included in the results signal from the emergency lighting node.

~~17.~~15. A method according to claim ~~16~~14, further comprising comparing, at the control node, the node ID of each of the plurality of emergency luminaires stored in the memory with node IDs of the received results signals.

~~18.~~16. A method according to claim ~~17~~15, the control node further comprising an alert system and further comprising the step of activating the alert system if a results signal is not received from an emergency luminaire at the control node within a predefined time period.

~~19.~~17. A method according to claim ~~15~~16, wherein the emergency luminaire comprises an activation means and a

performance measurement system, the method further comprises initiating the test procedure by activating the activation means to activate the emergency light for a predefined activation period, the performance measurement system measuring the performance of the emergency light during the activation period.

~~20.~~18. A method according to claim 17~~19~~ wherein the performance of the emergency luminaire is the current and voltage performance during the activation period.