

BALLAST LUMEN FACTORS DATA									
Standard = Grey			Self Test & Dali Addressable = Yellow						
4HH BATTERY	3 CELL	4 CELL	5 CELL	6 CELL					
TCD/E	13W	0.27	0.27						
	18W			0.18	0.18				
	26W					0.14	0.14		
TCT/E	32W					0.10	0.10		
	42W							0.08	0.08
	57W							0.05	0.05
TCL	18W	0.18			0.18				
	24W					0.20	0.12		
	34W					0.19			
	36W					0.20	0.11		
	40W					0.10	0.05		
2D	16W	0.22	0.22						
	28W			0.12	0.12				
	38W			0.09	0.09				
T8	18W	0.12			0.18				
	36W	0.08			0.10				
	58W			0.07			0.08		
	70W					0.07			0.06
T5 HE	14W	0.16			0.24				
	21W			0.13			0.16		
	28W					0.13			0.14
T5 HO	35W					0.12			0.12
	24W				0.13	0.08			
	39W					0.06			0.08
	49W					0.06			0.06
	54W					0.05			0.06
80W							0.05	0.05	

### STANDARD EMERGENCY

Internally mounted 3 hour duration maintained emergency facility.

**Catalogue Suffix:** .../3MI

Remotely mounted 3 hour duration maintained emergency facility, housed in a remote box and connected to luminaires via a flame retardant conduit.

**Catalogue Suffix:** .../3M

### DALI ADDRESSABLE EMERGENCY

Internally mounted 3 hour duration maintained DALI addressable emergency facility.

**Catalogue Suffix:** .../3MID

Remotely mounted 3 hour duration maintained DALI addressable emergency facility, housed in a remote box and connected to luminaires via a flame retardant conduit.

**Catalogue Suffix:** .../3MD

### DALI SELF-TEST EMERGENCY (UPGRADEABLE)

Internally mounted 3 hour duration maintained self-test emergency facility which can be software upgraded to be part of our DALI addressable emergency test system.

**Catalogue Suffix:** .../3MIDST

Remotely mounted 3 hour duration maintained self-test emergency facility which can be software upgraded to be part of our DALI addressable emergency test system.

**Catalogue Suffix:** .../3MDST

### STANDARD EMERGENCY WITH DALI ADDRESSABLE MAINTAINED LIVE RELAY FOR USE WITH OUR SOFTWARE DRIVEN KEY-SWITCH.

Internally mounted 3 duration maintained emergency facility with DALI relay.

**Catalogue Suffix:** .../3MIDD

Remotely mounted 3 hour duration maintained emergency facility with DALI relay housed in a remote box and connected to luminaire via flame retardant conduit.

**Catalogue Suffix:** .../3MDD

### SELF-TEST EMERGENCY

Internally mounted 3 hour duration maintained emergency self test facility

**Catalogue Suffix:** .../3MIET

Remotely mounted 3 hour duration maintained emergency self-test facility, housed in a remote box and connected to luminaire via a flame retardant conduit.

**Catalogue Suffix:** .../3MET

### RELAYS TO SUIT REMOTE BATTERY OPERATION

*For use with static inverter (240V AC supply).*

415V Relay Catalogue Suffix: /E415

415V Relay for 1-10v dimming circuit Catalogue Suffix: /E415D

*For use with central battery systems.*

110V Inverter/charger relay Catalogue Suffix: /110INV

50V Inverter/charger relay Catalogue Suffix: /50INV

24V Inverter/charger relay Catalogue Suffix: /24INV

### **SELF-TEST**

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All EM-TEST units have pre-programmed testing functions controlled via a micro controller and internal crystal controlled timer. The controller ensures randomised testing of the units and controls the adaptive learning mode described later.

Testing and fault conditions are indicated using a single bi-colour (green/red) LED as shown in TABLE 1.

Unlike units from other suppliers there is no complicated and confusing arrangement of colours for indication ...only:

Green - OK

Red - Fault

The testing programme can be split into three phases

- 1) Continuous monitoring
- 2) Weekly function test
- 3) Annual duration test

#### 2.1 Continuous monitoring :

During the mains healthy charging mode the controller monitors both the charge condition and static battery status. If detected as faulty or out of specification the unit will indicate a fault by changing the LED from green to red as shown below. When the fault is rectified the unit will reset the LED to green immediately and continue its normal mode.

STATUS		LED CONDITION
All OK		Permanent green
Function test in progress		Rapid blinking green 0,1s on 0,1s off
Duration test in progress		Slow blinking green 1s on 1s off
Lamp failure	Open circuit, gas defect	Permanent red
Battery failure	Battery failed the duration test or function test. Battery defect or deep discharged. Incorrect battery voltage	Slow blinking red 1s on 1s off
Charger failure	Incorrect charging current	Fast blinking red 0,1s on 0,1s off
Blocking mode		Double green pulse

### **LED ADDRESSABLE**

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We shall be launching a non-maintained DALI addressable LED emergency lighting system in mid-2008, that can be stand alone or part of our LUXLINK DALI lighting control system.

### **LUXLINK DALI ADDRESSABLE**

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The LUXLINK DALI addressable emergency lighting test is available either as a stand-alone system or part of a LUXLINK DALI lighting control system.

The interface between the DALI emergency inverters can be either LON or ETHERNET. Full details can be obtained on our web site.