PHILIPS

CoreLine Waterproof

WT120C G2 EL

Please refer to InterAct commissioning guide to enable wireless InterAct Ready functionality
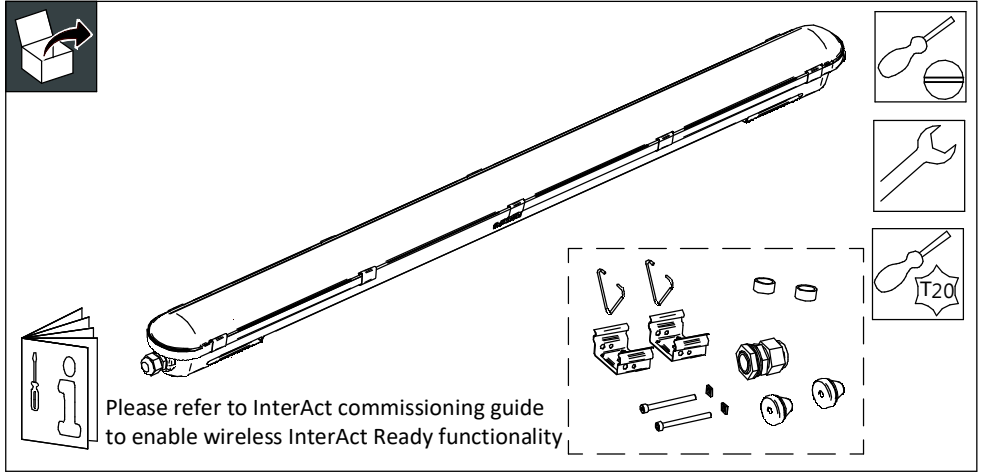
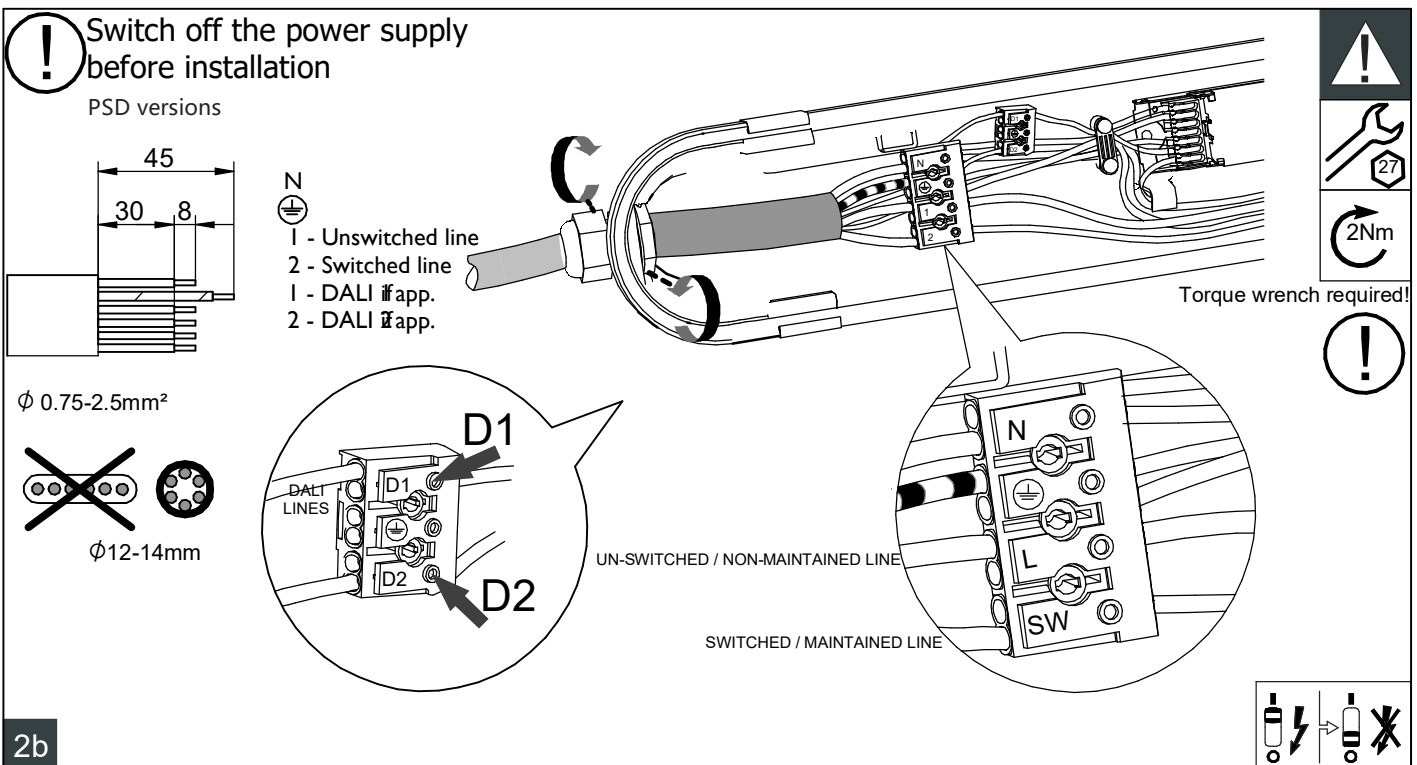CE | 220 V / 240 V | 50 Hz / 60 Hz | Max. 25 °C / Min. 0 °C | LIFETIME 50k HRS | IP65 | IK08 | GLOW WIRE 850 °C
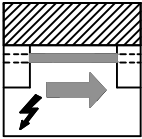
D

	System light output (Lm)	System light output Emergency mode (Lm)	kg
WT120C G2 LED27S/840 PSU ELB3 L1200	2700	900	1,4
WT120C G2 LED40S/840 PSU ELB3 L1200	4000	900	1,4
WT120C G2 LED34S/840 PSU ELB3 L1500	3400	900	1,8
WT120C G2 LED60S/840 PSU ELB3 L1500	6000	900	1,8
WT120C G2 LED80S/840 PSU ELB3 L1500	8000	900	1,8
WT120C G2 LED27S/840 PSD ELB3 L1500	2700	900	1,5
WT120C G2 LED40S/840 PSD ELB3 L1500	4000	900	1,5
WT120C G2 LED34S/840 PSD ELB3 L1500	3400	900	1,9
WT120C G2 LED60S/840 PSD ELB3 L1500	6000	900	1,9
WT120C G2 LED40S/840 IA1 ELB3 L1200	4000	900	1,5
WT120C G2 LED60S/840 IA1 ELB3 L1500	6000	900	1,8

Type	Dimension (mm)							Nr. of clips
	A	B	C	D	E_{min}	E_{max}	F	
WT120C G2 LED27S L1200	76	1215	80	38	538	1062	85	10
WT120C G2 LED40S L1200		1215			538	1062		10
WT120C G2 LED34S L1500		1515			838	1362		12
WT120C G2 LED60S L1500		1515			838	1362		12
WT120C G2 LED80S L1500		1515			838	1362		12

1

E ± 100mm

OPTIONAL ANTI-VANDAL MOUNTING

x 2

1Nm

2a

⚠ Switch off the power supply
before installation

PSU & IA1 versions

□0,75-2,5mm²

45
30 8

N
⏚
1
2

Ø8-12mm

UN-SWITCHED / NON-MAINTAINED LINE

SWITCHED / MAINTAINED LINE

N
⏚
L
SW

⚠
🔧 27
2Nm
Torque wrench required
⚠

2b

⚠ Switch off the power supply
before installation

PSD versions

45
30 8

N
⏚
1 - Unswitched line
2 - Switched line
1 - DALI 1 if app.
2 - DALI 2 if app.

Ø 0.75-2.5mm²

Ø12-14mm

DALI
LINES

D1
D2

D1

D2

UN-SWITCHED / NON-MAINTAINED LINE

SWITCHED / MAINTAINED LINE

N
⏚
L
SW

⚠
🔧 27
2Nm
Torque wrench required!
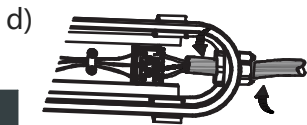⚠

Through wiring
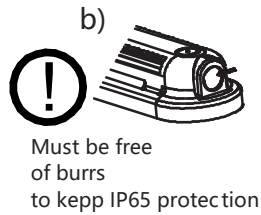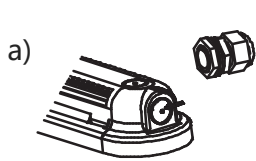
Emergency luminaires are suitable for through wiring.

Connection sceme is same as for standard TW3 versions

Ø 20mm

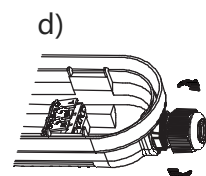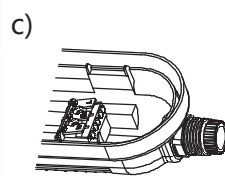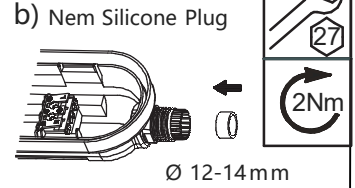Torque wrench required!

27

2Nm
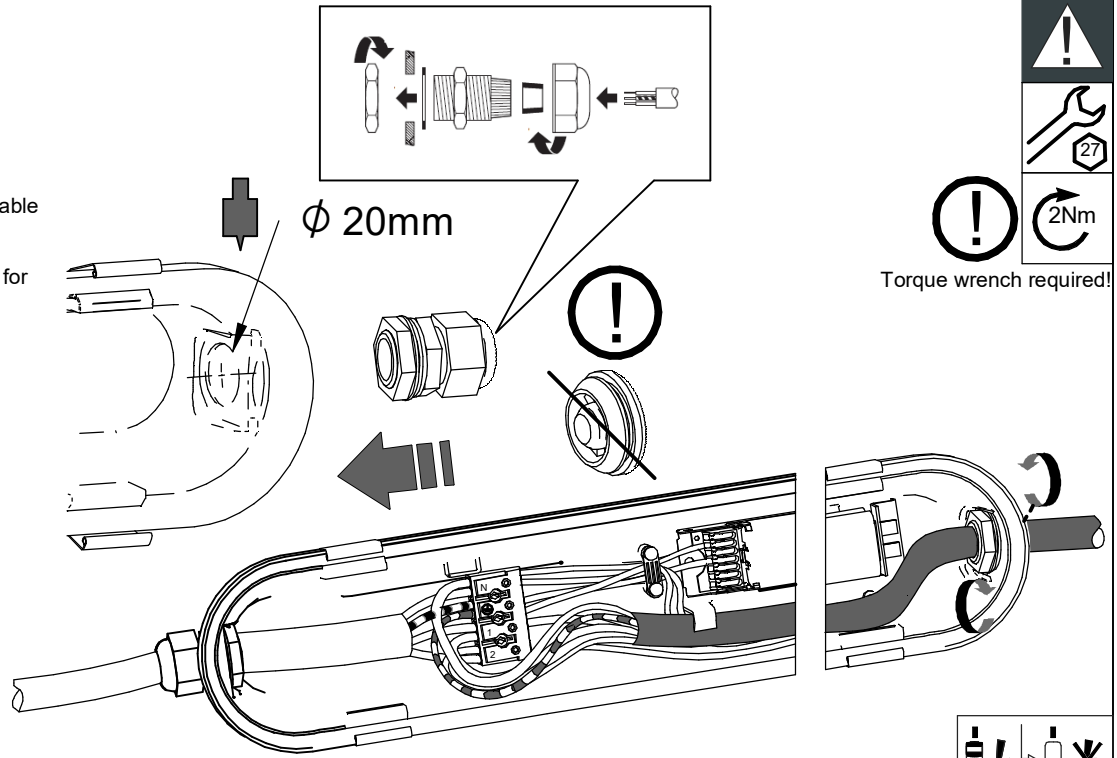
2c

Install cable in other location (optional)
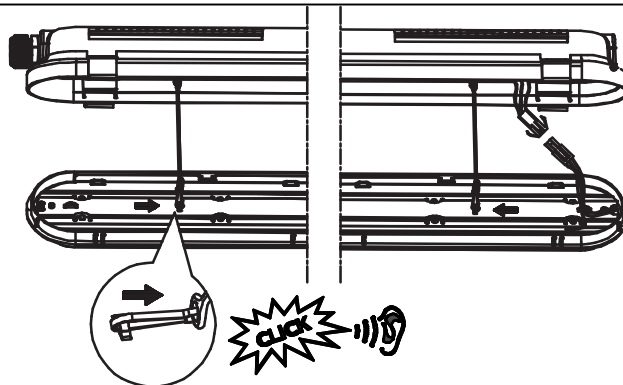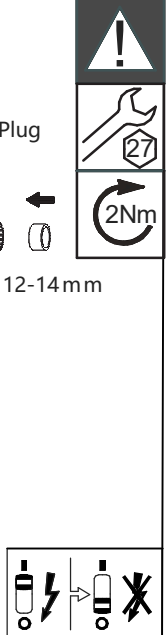
Switch off the power supply before installation

a)

b)

Must be free of burrs to kepp IP65 protection

c)

d)

24

27

2Nm
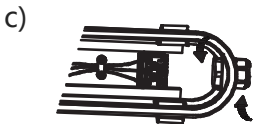
3

Replacement of Silicon Plug (optional)

a)

b) Nem Silicone Plug

Ø 12-14mm

c)

d)

27

2Nm

4
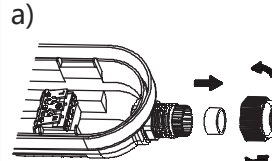
Use only optical sub-assembly that delivered with housing in one box!

CLICK

5
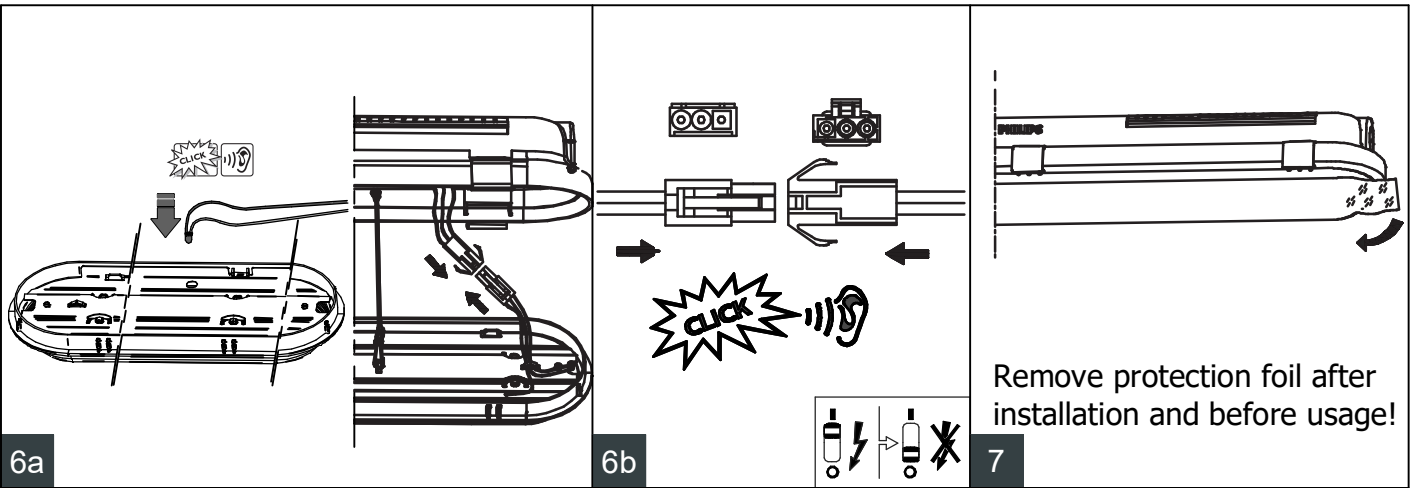
6a

6b

7

Remove protection foil after installation and before usage!
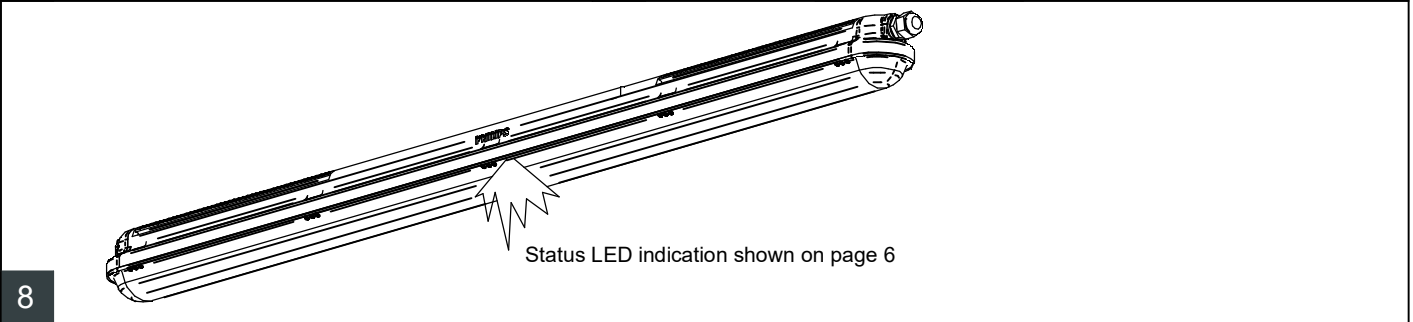
8

Status LED indication shown on page 6

SERVICE

Light source (LED) is non-user replaceable.
The light source contained in this luminaire
shall only be replaced by the manufacturer
or his agent or a similar qualified person.

Do not touch electronic components!
Electronic components maybe under high voltage.
Caution, risk of electric shock
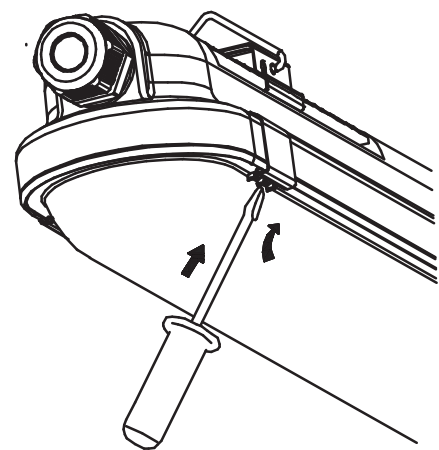
Maximal screwdriver size:
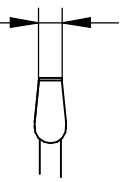
MAX 6mm

9a

ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
SENSITIVE
DEVICES

9b

1,2Nm

T20

New driver

A) OPEN LUMINAIRE

Maximal screwdriver size

max. 6mm

1
2

B) DECOUPLE WIRES

C) UNTIGHT BATTERY SCREWS

T20

10 The batteries have a life time expectancy of 4 years.
Do not touch electronic components!
Electronic components may be under high voltage.
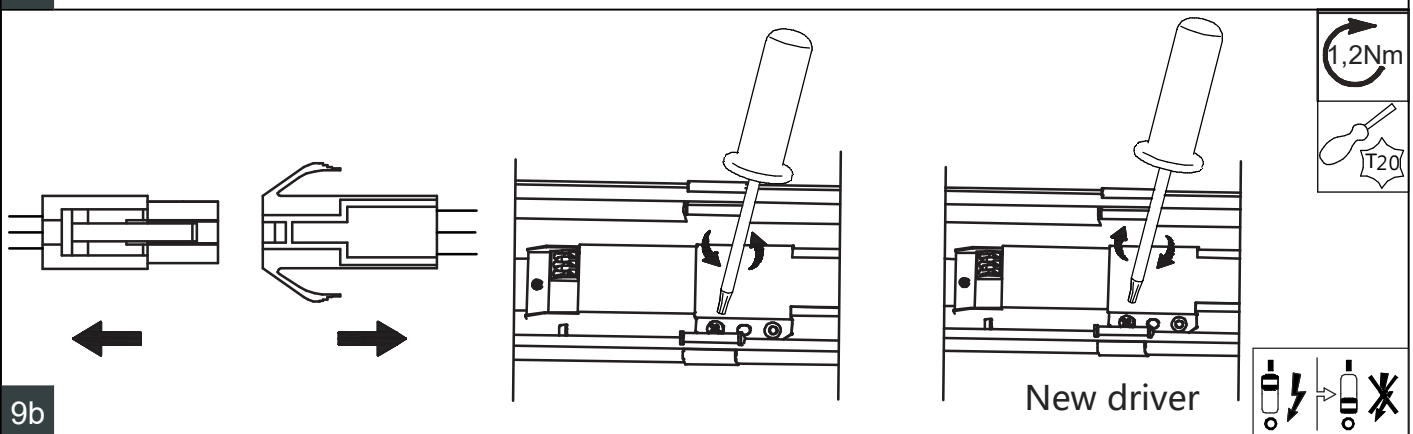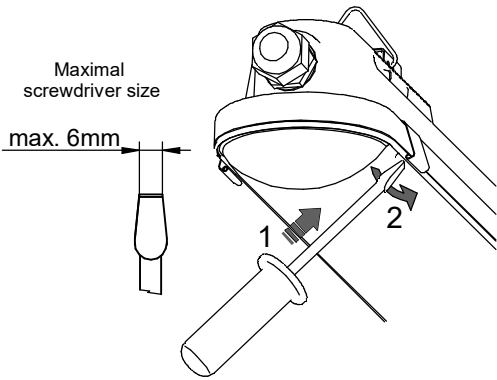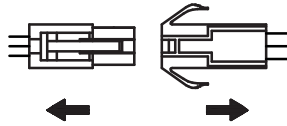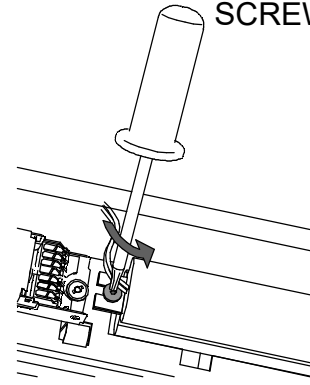
A T T E N T I O N
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
SENSITIVE
DEVICES

Inrush current

I mains (A)

I max

max/2

I nom.

Tref

Time (us)
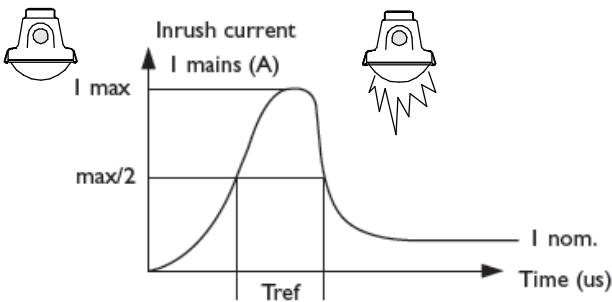
	LED27S		LED34S		LED40S			LED60S			LED80S	
Driver type	PSU	PSD	PSU	PSD	PSU	PSD	IA1	PSU	PSD	IA1	PSU	PSD
Ipeak [A]	3,58	19,4	5,16	19,4	5,16	19,4	22	5,56	20,9	22	6,9	20,9
Tref [µs]	40	200	47	200	47	200	270	47	192	270	58	192
Max. Nr of products												
Drivers / MCB 16A type B [max.]	80	30	60	30	60	30	22	45	29	22	30	29
Drivers / MCB 10A type B [max.]	50	18	37	18	37	18	13	28	18	13	18	18
Drivers / MCB 16A type C [max.]	136	51	102	51	102	51	37	76	49	37	51	49
Drivers / MCB 10A type C [max.]	80	31	62	31	62	31	22	46	30	22	31	30

Light intensity distribution curves
Emergency mode

120°   180°   120°

90°   90°

60°   100   60°

200

300

γ

30°   400   30°

(cd/1000 lm)   0°   L.O.R.= 1.00
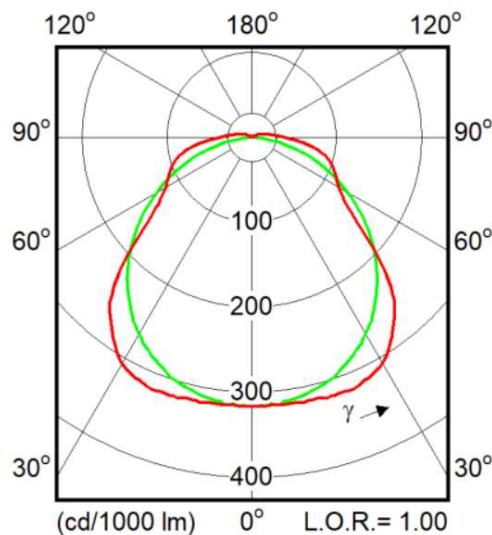
Maintenance instructions

To assure the lighting quality of this unique LED lighting concept there are only a few instructions regarding the maintenance of this LED luminaire:

* Do not stare into LED light beam.

* The luminaire shall be installed by a qualified electrician and wired in accordance with the latest IEE electrical regulations or the national requirements.

* Above average concentracion of sulfur effects the useful lifetime of the product. E.g: Light color changes from white to blue. Typically in chicken & pig farms.

Functional Notice for Emergency Lighting

Automatic emergency time selection

After installation and power up the driver will detect the battery and start the automatic detection process.
• During automatic detection, the indicator LED will light up with short green flashes.
• Between minimum 6 and maximum 30 seconds the TrustSight driver will set the battery type (number of cells) and will set the emergency output power accordingly.
After that, the system is defined and fully operational. The battery type definition has influence on the performance during the self-test and on the battery charge method. When the automatic battery detection process is disrupted, e.g. by switching off the permanent mains, the detection process is stopped and the TrustSight emergency driver will go into emergency mode with the lowest output power. At a next power up, the automatic detection process will start again.

Periodic testing

Periodic tests of emergency lighting luminaires must be performed according to EN50172 clause 7.2.3 and 7.2.4. Switch on in the emergency mode each month by simulation of a failure of the supply to the normal lighting for a period sufficient to ensure that each lamp is illuminated. Twice per year, each luminaire shall be tested for its full rated duration (at least 3hrs).

For more information please consult the TrustSight Gen 3 Design in guide. The latest version is available online.

LED indicator status

LED indicator (color / flashing)	Error condition	Cause	Solution
Green / no flashing		System OK, battery fully charged	
Off		Mains off, EM mode, Rest mode, test in progress	
Green / slow (0.25s on, 1.25s off)		System OK, battery is charging	
Green / fast (0.25s on, 0.25s off)		System OK, recently tested (< 5 days, Australia mode only)	
Red / no flashing	Battery voltage too high or too low	No battery connected	Connect battery
		Wrong or bad battery connected	Replace battery
Red / fast (0.25s on, 0.25s off)	Output voltage too low or too high	Wrong LED load connected	Connect right load and perform functional test
	No load connected or output shorted	Wrong connection	Connect right load and perform functional test
Red / slow (0.25s on, 1.25s off)	Failed test due to battery	Battery end of life Charger failure	Replace battery and perform duration test. Replace driver
Red-green / fast		DALI device identification	
Fast flashing: (on-time = 0.25s, off-time = 0.25s) Slow flashing: (on-time = 0.25s, off-time = 1.25s)			
Green / short		Battery detection	
on-time = 50ms, off-time = 0.95s)			

PHILIPS