



COSINE DEVELOPMENTS

LEADERS IN LIGHTING TECHNOLOGY

(Reg. No. IT 1637/97)

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Emergency Lighting CHECK LIST Issue: 27 February 2018

Requirement	Measured value	Compliance (Y/N)?
Marking		
Does the luminaire marking satisfy 60598?		
Luminaire marked with rated voltage (230 Vac)?		
Luminaire marked with classification?		
Luminaire marked with replacement lamp type?		
Luminaire marked with rated maximum ambient temperature (t_a)?		
Battery terminals clearly marked (+ and -)?		
Warning the circuits may be live when mains is off?		
Are test facilities clearly marked (if any)?		
Is there a 5 mm green dot under the emergency lamp?		
Instruction leaflet provided?		
Power factor and input current stated?		
Batteries		
Battery type indicated?		
Battery year and week of manufacture?		
Battery year and week of commissioning?		
Battery t_c specified?		
Batteries positioned in coolest part of luminaire?		
Wiring		
Indicator lamp visible?		
Battery connected?		
Permanent live connection not to wall switch?		
Switched live connection to wall switch?		

Permanent live and switched live on same phase?		
Does the external and internal wiring comply with 60598?		

1. SANS 60598-1- 3: Marking

- Mark of origin (Cosine Developments)
- Rated Voltage (230 Vac)
- Rated Maximum ambient temperature ($t_a = 50^\circ\text{C}$)
- Marking with IP numbers for Luminaires.
- Makers model or reference type (TLX 3)
- Rated wattage
- Nominal frequency (50 Hz)
- Wiring diagram
- Power factor and supply current
- Label durability – petroleum spirit proof printing

2. Classification Label

Classification label must bear the information below:

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Each symbol in the segments shall indicate a number, letter or point of no indication *i.e.*, no symbol can be left blank.

The first segment indicates “Type”;

- X = self contained and
- Z = centrally supplied.

The second segment indicates “Mode of operation”;

- 0 = non-maintained
- 1 = maintained
- 2 = combined non-maintained
- 3 = combined maintained
- 4 = compound non-maintained
- 5 = compound maintained
- 6 = satellite

The third segment indicates “Facilities”;

- A = including test devices
- B = including remote rest mode
- C = including inhibiting mode

- D = high-risk task area luminaire

The fourth segment indicates “Duration” for self-contained luminaires;

- *10 = ten minutes duration
- *60 = one hour duration
- 120 = two hours duration
- 180 = three hours duration

The following example shows the marking for a combined, self-contained, one hour duration (say 4 x 18W recessed with one lamp on emergency) luminaire:

X	1	****	*60
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3. Instruction Leaflet

- Shall indicate that the batteries need to be replaced when the rated duration is no longer attainable.
- Details of test facilities, if any.
- Test procedures
- Connection procedures and maximum length of cable (3% maximum volt drop)
- Rated light output.
- Rest mode facilities, if any.