**Troubleshooting guide**

If you have installed and connected the luminaire as per the instructions listed earlier and it does not function correctly, use the following table as a guide to fixing the problem. Look up the type of fault in the left column and check the possible causes from the right column.

If the luminaire still does not work after checking these possible causes, contact ABB customer service in Australia on 1800 60 20 20.

### What's inside the box

- Safety warning
- Batten LED
- Installation instructions
- Removal instructions
- Testing precautions
- Troubleshooting guide
- Warranty information

---

### Test precautions:

- The luminaire only to be installed outside arms reach.
- The light source of this luminaire is not replaceable; when the light source reaches its end of life the whole luminaire shall be replaced.
- There are no user serviceable parts inside the product, except the battery (emergency only).
- This luminaire is a class I product and must be earthed.
- This luminaire is rated IP40, this must be maintained during wiring and installation.
- For electronic control luminaire such as this luminaire (when supplied) do not megger between A and N.
- The product must be maintained and operated in accordance with the manufacturer's instructions, failure to do so may damage the product. It is recommended that this important note be communicated to the site owner or manager and or contractor of the installation at the time of site commissioning.
- This product is designed for indoor use only.
Installation instructions
1. Disconnect the mains power to the circuit before commencing installation.

Note: The circuit supplying mains power to the luminaire must not be energised until installation of
the luminaire is completed.
2. The batten can be either ceiling or wall mounted or suspended. Suspension wires not supplied. The
mounting point must support 2 times the weight of the luminaire.
3. Slide end caps away from the luminaire and remove the lamp and diffuser assembly. Place batten
against the wall or ceiling; mark and drill position of the mounting screw holes.

4. Secure the batten to the ceiling or wall using appropriate fixings depending on the type of building
construction material used. The supplied 4 pieces of wall plugs and screws can be used if
appropriate, depending on the building construction material.
5. Route the mains cable through the cable entry at rear and connect to the terminal block as shown below:

6. Be careful with multi-strand conductors that all the strands are twisted together before
insertion into the terminal. Any stray strands that inadvertently encounters their
neighbouring terminal will cause undesirable results when the luminaire is powered.

<table>
<thead>
<tr>
<th>Wire/luminaire type</th>
<th>Non-maintained</th>
<th>Maintained - no SA</th>
<th>Maintained - with SA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Switched active</td>
<td>Don’t wire SA terminal</td>
<td>Loop the SA and A terminals</td>
<td>Wire to SA terminal</td>
</tr>
<tr>
<td>Unswitched active</td>
<td>Wire to terminal A</td>
<td>Wire to terminal A</td>
<td>Wire to terminal A</td>
</tr>
<tr>
<td>Neutral</td>
<td>Wire to terminal N</td>
<td>Wire to terminal N</td>
<td>Wire to terminal N</td>
</tr>
<tr>
<td>Earth</td>
<td>Wire to terminal E or</td>
<td>Wire to terminal E or</td>
<td>Wire to terminal E or</td>
</tr>
</tbody>
</table>

Note: Switched active (SA) and unswitched active (A) supply must be on the same phase.

7. Verify that the battery is connected to the inverter or power pack.
8. Clip the diffuser and end caps back onto the luminaire.

9. Energise the luminaire and allow a few minutes to give the battery a small charge then press the
test switch on luminaire to ensure that luminaire operates in emergency mode, the LED indicator
will go off during emergency mode. On releasing the test switch the luminaire will automatically
connect to mains supply and the LED indicator will illuminate.

Important: 24 hours is required to allow the luminaire battery to reach full capacity, ie: prior to a
discharge test. As the installer, it is your responsibility to conduct the initial discharge testing of
the installed luminaire. Refer to AS/NZS 2293.

Removal instructions
1. Before removing the installed luminaire, de-
energise and lock off the supply circuit.

Note: There may be 2 actives present, ensure all
power is isolated before proceeding.
2. Slide end caps away from the luminaire and
remove the lamp and diffuser assembly from
the base.
3. Disconnect the battery and then remove the
mains cabling from the terminal block.
4. When the luminaire is reconnected to the
supply, it will need time to recharge its battery
for 24 hours before it will be capable of a full
length discharge again.

Testing precautions
Once the luminaire is permanently connected to
the mains supply, a commissioning discharge test
as required in AS/NZS 2293.2 must be carried out.
You will need to allow 24 hours for the battery to
fully charge prior to conducting this test,
presently (at the time of writing), the standard
requires that luminaires operate in emergency
mode for a period not less than 2 hours for their
commissioning test and for not less than 90
minutes thereafter (It is required that 6 monthly
discharge tests be carried out). You will need to
keep the records for the commissioning test and
enter them into the building emergency services
logbook or via other recording methods as
allowed by AS/NZS 2293.2.

Construction sites
Continuously switching off the mains power
supply that is connected to emergency light
luminaires during the construction phase of an
installation will cause these luminaires to
discharge and charge their batteries many times
over a short period; this can shorten life of the
battery. ABB does not recommend such practices
and may not honour the warranty on batteries
when they are subjected to such harsh operating
conditions. Emergency light luminaires are
designed to be discharge tested once every 6
months as per AS/NZS 2293.2, subjecting the
product to repeated discharge or charge cycles is
regarded as an abuse of the luminaires.