

Emerald Planet Installation Instructions

LED Battens IP65 Uni Series



IMPORTANT INFORMATION

- Installation and maintenance work must be carried out by a licensed electrician.
- Ensure power supply to the luminaire is isolated prior to installation and maintenance.
- Suitable for indoor or outdoor use in an ambient temperature ranging from 0°C to 40°C.

DESCRIPTION

Model	Dimensions	Rating
EP-UNIG2-TES665-18	618x116x74mm	AC 220-240V, 50/60Hz, 18W
EP-UNIG2-TES1265-25	1215x116x74mm	AC 220-240V, 50/60Hz, 25W
EP-UNIG2-TES1265-35	1215x116x74mm	AC 220-240V, 50/60Hz, 35W

INSTALLATION

1

Fix the clips with screws onto the ceiling.

2

Open the enclosure by loosening the clips around the batten.

3

Unscrew the slots, open the LED board for setting.

4

4000K 5000K 6000K									
1	2	3	4	5	6	7	8		
100%	1min	Disable	0s	10%	50%	5min	50Lux	5min	20%
	15min		30min	30%		+∞		+∞	50%

ON OFF
Black = switch location

Switch to select colour temperature, and for sensor version, adjust the setting by DIP switch.

5

Click diffuser into the base and tighten the locking screw with the tool provided.

6

Attach the batten onto ceiling.

At least 4G1.0mm² H05VV-F supply cord shall be used while install supply connection.

Dip Switch Settings

Detection Range

1	
<input type="checkbox"/>	100%
<input type="checkbox"/>	50%

Hold Time

2	3	
<input type="checkbox"/>	<input type="checkbox"/>	1min
<input type="checkbox"/>	<input type="checkbox"/>	5min
<input type="checkbox"/>	<input type="checkbox"/>	15min
<input type="checkbox"/>	<input type="checkbox"/>	+∞

Daylight Sensor

4	
<input type="checkbox"/>	Disable
<input type="checkbox"/>	50Lux

Standby Period

5	6	
<input type="checkbox"/>	<input type="checkbox"/>	0s
<input type="checkbox"/>	<input type="checkbox"/>	5min
<input type="checkbox"/>	<input type="checkbox"/>	30min
<input type="checkbox"/>	<input type="checkbox"/>	+∞

Standby Dimming lever

7	8	
<input type="checkbox"/>	<input type="checkbox"/>	10%
<input type="checkbox"/>	<input type="checkbox"/>	20%
<input type="checkbox"/>	<input type="checkbox"/>	30%
<input type="checkbox"/>	<input type="checkbox"/>	50%



Black = switch location

Note:1. "0s" means on/off control.

2. "+∞" means bi-level dimming control, fixture never switches off.



The default setting as below

Detection = 100%

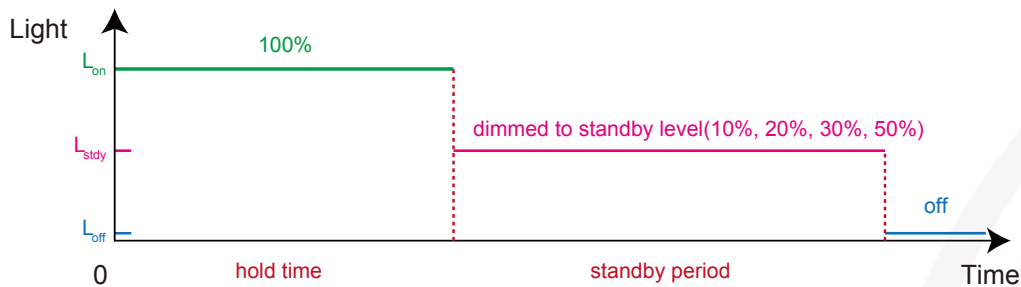
Hold Time = 5mins

Daylight Sensor = 50lux

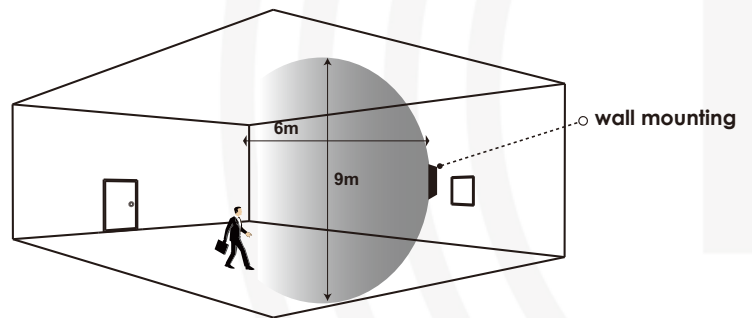
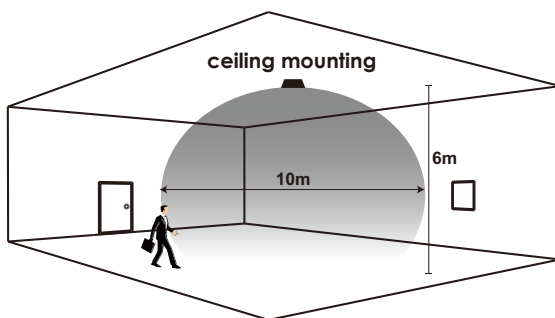
Standby Period = 5mins (emergency versions = infinite)

Standby Dimmed level = 10%.

Tri-level Dimming Control



Detection Area



Automatic test function scheme

Function		LED Indication	
Charging State	Power supply is normal	Battery charging	Permanent green
Emergency State	Power supply is failure	Start emergency	LED indication off
Test button	Short click 200 ms<T<1s	Start 5s self-test state	Yellow: 1s ON /1s OFF
	Self test results	System OK	Permanent green
		Load fault	Load fault: flashing yellow (0.5s on-0.5s off)
		Battery fault	Battery fault: flashing yellow (0.5s on-0.5s off)
Press>10s	Reset (Timing cleared, fault removed, than enter into 16-hour initially check program)	LED indication off 1s, than permanent green	
Initially check	Charging 16h	Test battery capacity and check whether load is faulty	Permanent green
	Initially test		Flashing yellow (4s on-1s off)
	Initially check results	System OK	Permanent green
		Load fault	Load fault: flashing yellow (0.5s on-0.5s off)
		Low battery capacity	Battery fault: flashing yellow (0.5s on-0.5s off)
Weekly check	Auto-run a 5s test every 7 days	Test battery capacity and check whether load is faulty	Flashing yellow (1s on-1s off)
	Weekly check results	System OK	Permanent green
		Load fault	Load fault: flashing yellow (0.5s on-0.5s off)
		Battery fault	Battery fault: flashing yellow (0.5s on-0.5s off)
Half yearly check	Auto-run test every 26 weeks	Test battery capacity and check whether load is faulty	Flashing yellow (4s on-1s off)
Annually check	Auto-run a test every 52 weeks	Test battery capacity and check whether load is faulty	Flashing yellow (4s on-1s off)
	Half yearly check and annually check results	System OK	Flashing yellow (4s on-1s off)--keep at least 5 days indicator light prompt, than turn to permanent green
		Load fault	Load fault: flashing yellow (0.5s on-0.5s off)
		Low battery capacity	Battery fault: flashing yellow (0.5s on-0.5s off)
Timing protection function	Protection function can be effective within 7 days of power failure		

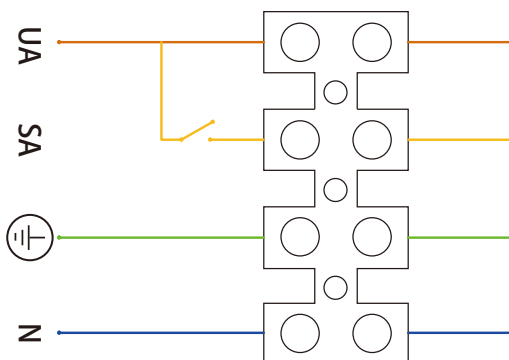
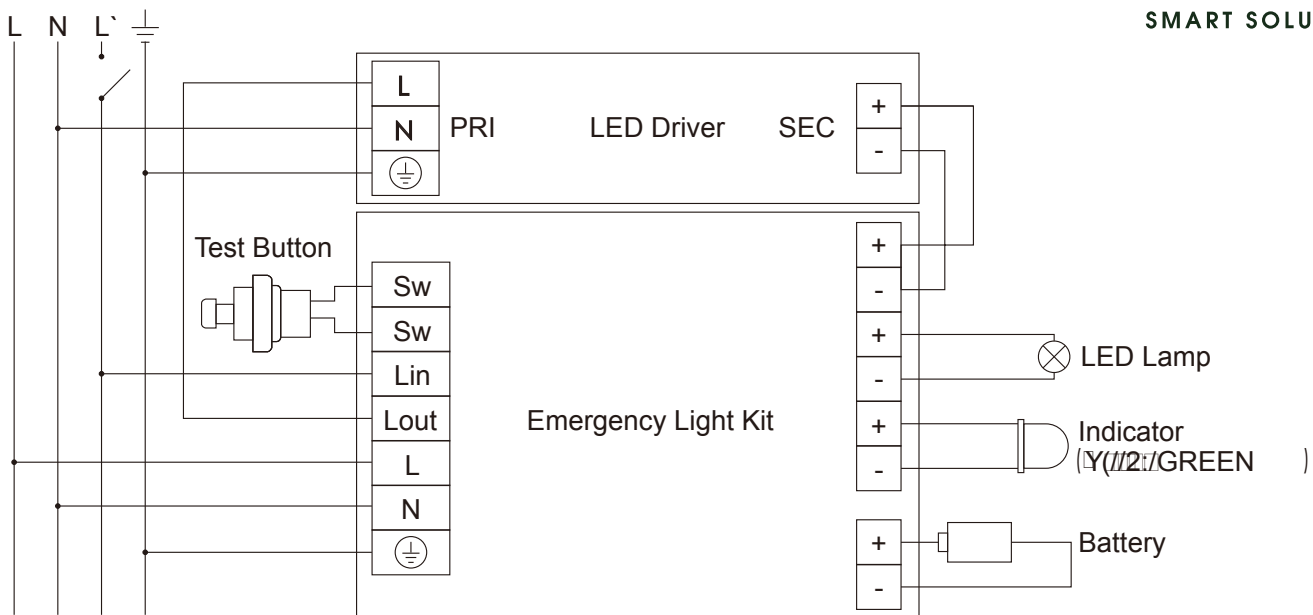
SCHEDULE 1—SIX-MONTHLY—SERVICE AND MAINTENANCE RECORDS

Item	Title	Activity	Record (Pass/Fail, result or comment)
1.1	Service and maintenance records	Check the service and maintenance records and confirm the previous scheduled inspection and/or test was completed and within tolerance.	Record outcome
1.2	Service and maintenance records —Critical defects	Check the service and maintenance records and confirm any previously recorded critical defects have been rectified.	Record outcome
1.3	Service and maintenance records —Non-critical defects	Check the service and maintenance records and confirm any previously recorded non-critical defects have been rectified or other actions taken.	Record outcome
1.4	Service and maintenance records —Non-conformances	Check the service and maintenance records and confirm any previously recorded non-conformances have been rectified or other actions taken.	Record outcome
1.5	Service and maintenance records —Observations	Check the service and maintenance records and review any previously recorded observations.	Record outcome

SCHEDULE 2—SIX-MONTHLY—SELF CONTAINED EMERGENCY LUMINAIRES AND EXIT SIGNS

Item	Title	Activity	Record (Pass/Fail, etc.)
2.1	Emergency luminaire	Inspect each emergency luminaire. Record if it is functioning, i.e. operating as required.	P/F for each item
2.2	Emergency luminaire	Check each emergency luminaire is free from significant damage, deterioration, contamination or other condition that is likely to adversely affect its function. Record outcome, e.g. noted, replaced, cleaned. See Notes 1 and 2.	P/F for each item
2.6	Automatic test systems, control and indicating equipment—Condition	Inspect control and indicating equipment for any condition for that could adversely affect its operation. See Note 3.	P/F
2.7	Emergency luminaire and exit signs —Initiate duration test	Initiate the operation of each emergency luminaire by simulating the loss of primary power using the designated test facility, which may be automatic, manual, circuit breaker or fuse.	Record start time
2.8	Emergency luminaire—Duration test	Inspect each emergency luminaire for the required duration. Record the pass/fail result for each fitting. (There could maybe via self-test indication, automatic or manual methods.)	P/F for each item
2.9	Defined service life	Check the log book and base line data for any emergency luminaire or component with a defined service life. Record each item that has exceeded the defined service life or is due for replacement before the next scheduled maintenance activity.	P/F
2.10	Check each initiated discharge system is reverted to normal operation	Inspect each automatic or manual discharge test facility and ensure it has been returned to normal operation.	P/F

Wiring



Unswitched Active = Active, connect to mains power.

Once power off, lamp on with battery

Switched Active = Active, connect to switch. People can

switch off the battery, battery keeps off as long as there is electricity on mains.

Battery Maintenance

Caution, risk of electric shock !



- In order to ensure personnel safety & integrity of the luminaire, electrical supply must be isolated to this luminaire before carrying out any maintenance work.
- All maintenance, such as battery change on this luminaire, to be performed by qualified personnel only.
- De-energize all supplies before undertaking maintenance work.
- It is recommended to disconnect the battery before storage or delivery.
- Battery should be charged once every three months in order to maintain battery performance.
- The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person.
- The replacement of the battery is needed when they no longer meet their rated duration of operation after the corresponding recharge period.

WARNING: ALL MAINTENANCE, SUCH AS BATTERY CHANGE ON THIS LUMINAIRE, TO BE PERFORMED BY QUALIFIED PERSONNEL ONLY. DE-ENERGISE ALL SUPPLIES BEFORE MAINTENANCE.

IF THE EXTERNAL FLEXIBLE CABLE OR CORD OF THIS LUMINAIRE IS DAMAGED, IT SHALL BE EXCLUSIVELY REPLACED BY THE MANUFACTURER OR HIS SERVICE AGENT OR A SIMILAR QUALIFIED PERSON IN ORDER TO AVOID A HAZARD.

**SCHEDULE 4—YEARLY—SELF CONTAINED
EMERGENCY LUMINAIRES AND EXIT SIGNS**

Item	Title	Activity	Record (Pass/Fail, result or comment)
4.1	Six-monthly service	Conduct each activity set out in Schedules 1,2, and 3, as appropriate. Confirm each activity has been completed and record the results.	P/F
4.2	Indirect lighting systems —Reflecting surfaces (where fitted)	Inspect the finish of predominant reflecting surfaces, including ceilings and walls for any change that could adversely affect the approved design.	P/F
4.3	Directional beam luminaires (where fitted)	Inspect each directional beam is aimed in accordance with the approved design and it is not directed into the eyes of the occupants while moving through the path of travel to a required exit.	P/F for each directional beam
4.4	Normal lighting and emergency operating relationship	Inspect the emergency luminaire is in the correct relationship to the normal lighting in the designated area. (See general requirements for the arrangement and control of emergency luminaires and exit signs in AS/NZS2293.1.)	P/F for each fitting
4.9	Survey—Emergency light schedule	Check the emergency luminaire against the listing of products installed or location listing or drawings for any condition, alteration or addition since the last scheduled maintenance activity.	Record outcomes
4.10	Survey—Fire control centre (where fitted)	Inspect and test each required fire control centre to verify the minimum illumination requirement achieves the approved design.	P/F
4.11	Survey—Emergency Luminaires	Inspect the building to ensure there is adequate emergency lighting in accordance with the approved design.	P/F
4.14	LED-maintained emergency luminaires—Performance reduction through light emission depreciation	Where no manufacturer LSL specified the ongoing viability of the installed luminaires shall be assessed in accordance with Clause 3.5.2. Check the spacing between emergency luminaires is in accordance with the classification determined above.	P/F for each sample. Record recommendation of ongoing operation of luminaires on site. Confirm luminaire spacing onsite