

Colour Changeable



Emergency

# LED Bulkhead

## Subra 65

# Introduction



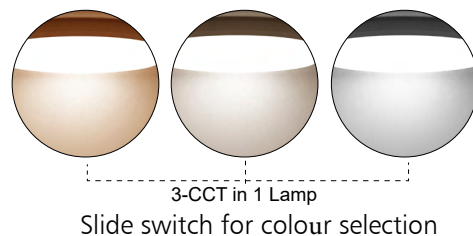
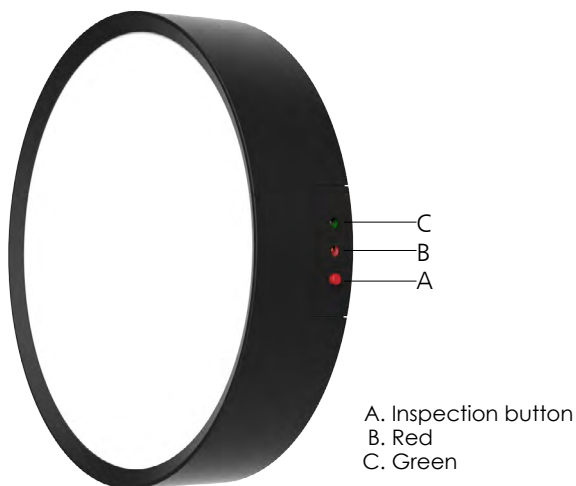
◀ SUBRA 65 bulkhead has a Die-casting aluminum body and 94-V0 fire-rated PC cover.

## Features

1. Round fixture, with 94-V0 PC cover.
2. Long lifetime of 50,000 hours.
3. CCT: 3000K 4000K 5000K 5700K.
4. Built-in LED driver.
5. Triac dimmable, colour changeable and Emergency functions available.
6. High ingress protection rating: IP65, IK10, Class I.

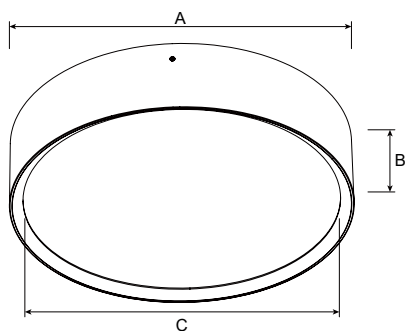
## Application Areas

It is designed for general lighting applications. It is also widely used for public areas, such as stairway, lobby, reception, corridors etc.



## Emergency

1. Green indicator flash: Normal Operation
2. Red indicator flash: Battery fault



**IP65**

**PF 0.9**

**CRI ≥80**



**50000 HOURS**

## Measurement

Model	Dimension(mm)			Size(mm)	Product Weight (Kg)		Package weight (Kg)		Carton Size(cm)	Qty/CTN	20GP (pcs)	40HQ (pcs)
	A	B	C		N.W/PC	G.W/PC	N.W/CTN	G.W/CTN				
Standard	250	58	229	Ø250*58	1.05	1.25	10.5	13.5	59*42.5*29.5	10	3600	8550
Emergency	250	58	229	Ø250*58	1.15	1.35	11.5	14.5	59*42.5*29.5	10	3600	8550

## Technical Data Sheet

Model No.			BH1240/65/RB		BH1840/65/RB	
Watt(W)			12W		18W	
Dimension(mm)			Ø250*58			
Rated Input Voltage(V)			AC230V			
Input Voltage(V)			AC200-240V			
LED			SMD			
SDCM			<6			
CCT(K)			1-CCT: 3000K / 4000K / 5000K / 5700K    3-CCT: 3000K + 4000K + 5700K			
"Luminous Flux (lm) ±5%	1-CCT	Non-DIM	1050-1250		1500-1850	
		DIM	1000-1200		1450-1800	
	3-CCT	Non-DIM	1000-1200		1450-1800	
		DIM	980-1200		1400-1750	
CRI			≥80			
Beam Angle (°)			110°			
LED Driver			Built-in			
DIM			YES			
CCT Selection Switch			YES			
Emergency Kits			YES			
Protection Class			Class I			
IP Rating			IP65			
IK Rating			IK10			
Finishing color			Black (RAL 9005)			
Material			Aluminium / PC			
Lifetime (hr)			50,000h			
Glow wire test (°C)			750°C			
Operating Temp.(°C)			-20°C ~45°C			
Storage Temp.(°C)			-20°C ~65°C			
Installation			Surface Mounted			
Brand Driver option			—			

## Driver Datasheet (Non-dimmable )

Power	12W	18W
Rated Input Voltage(V)	AC230V	
Frequency	50/60Hz	
Input Voltage	AC200-240V	
Efficiency	≥88%	≥88%
Total load wattage	12W±1W	18W±1W
Power Factor	0.9	
Rated Input Current	≤0.07A	≤0.1A
Full load output voltage	DC60-80V	DC60-80V
Rated output current	150mA	230mA
Output current range	150mA±5%	230mA±5%
Power tolerance	±5%	
Current output tolerance	±5%	
Short circuit protection	PASS	
Over voltage protection	PASS	
Over temperature protection	PASS	
THD	—	
Surge	L-N 500V LN-PE 1KV	
Withstand voltage	—	

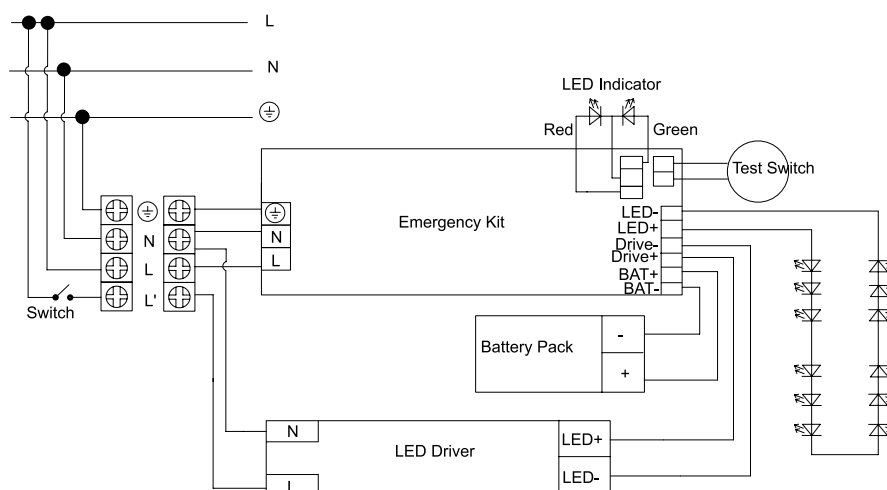
## Driver Datasheet (Triac Dimmable )

Power	12W	18W
Rated Input Voltage(V)	AC230V	
Frequency	50Hz	
Input Voltage	AC200-240V	
Efficiency	85%	85%
Total load wattage	15W±1W	18W±1W
Power Factor	0.9	
Rated Input Current	≤0.07A	≤0.1A
Full load output voltage	DC65-75V	DC65-75V
Rated output current	150mA	230mA
Output current range	150mA±5%	230mA±5%
Power tolerance	±5%	
Current output tolerance	±5%	
Dimming Range	8%-100%	
Short circuit protection	PASS	
Over voltage protection	PASS	
Over temperature protection	PASS	
THD	<20%@230V	
Surge	L-N 500V LN-PE 1KV	
Withstand voltage	—	

## Driver Datasheet (Emergency)

Rated Input Voltage(V)	AC230V
Frequency	50/60Hz
Input Voltage	AC200-240V
Efficiency	≥70%
Total load wattage	3W±0.5W
Rated Input Current	≤0.04A
Full load output voltage	DC60-75V
Rated output curent	33-26mA
Battery duration	>3h
Charge Period	<24h

### Wiring Diagram:



### Instructions for automatic test option

**1. Once the unit is powered up it will automatically initiate a self test and diagnostics as follows:**

- Every 4seconds:Check for battery disconnection,charger board fault,lamp failure and transformer failure.
- Every month:Perform a 3minute duration test.
- Every yeat:Perform a 1 Hour or 3 Hours duration test.
- Automatic test status: Connect the battery, start timing after L' and N connected with mains supply; Memory test time within 7 days available when the mains supply stopped.

All test functions are factory preset and do not need field adjustment.

## 2.Dual Colour Indicator LED Status Mesnings

- Green Solid On Ready/Normal Operation
- Red Requires Service

•	One flash, 4 second pause	Battery not connected
• •	Two flashes, 4 second pause	Battery short or low battery voltage
• • •	Three flashes, 4 second pause	Charger board fault
• • • •	Four flashes, 4 second pause	Transformer fault
• • • • •	Five flashes, 4 second pause	LED lamp fault

**NOTE:** After repairing a service fault, press and hold the test button for 2 seconds to reset the flashing indicator light to green.

### 3. Manual Test

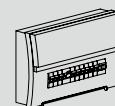
Press test button once	30 second duration test
Press test button twice within 2 seconds	3 minute duration test
Press test button 3 times within 2 seconds	30 minutes duration test
Press test button 4 times within 2 seconds	1 or 3 hours duration test

**Note:** DALI & 0-10V driver specification, please refer to individual driver datasheet.

# Installation Procedure

## WARNING

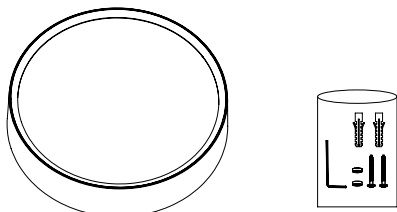
1. Switch off before installation.
2. Switch on only after complete installation and examination of the circuit.
3. Professional electrician for installation and maintenance only.



Turn Off power supply before starting any installation. Read instructions & check you have all the tools & accessories to complete the installation correctly.

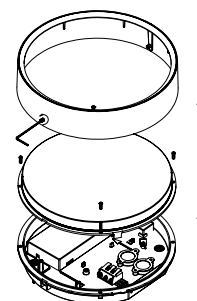
## How to install

### Step 1



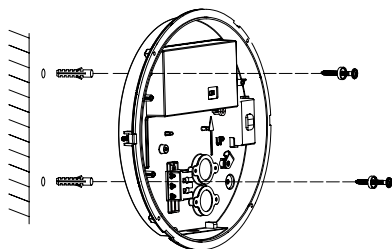
Take out the lamp and accessory.

### Step 2



Make the frame, diffuser and back housing separately.

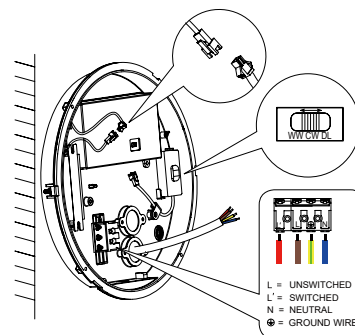
### Step 3



Fix the back housing on the wall or ceiling by screws.

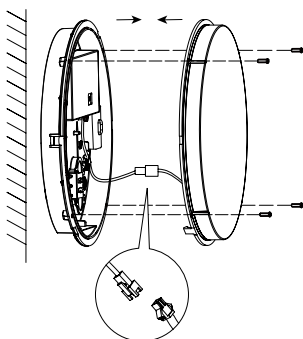
### Step 4

- a. Connect the plugs between the battery and driver if with Emergency function.
- b. Choose the color temperature with DIP switch if it's the color changeable version.
- c. Connect the AC wires to the block.

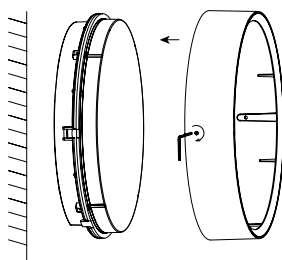


### Step 5

Connect the DC plugs, put back the cover to the back plate and fix it by screws.

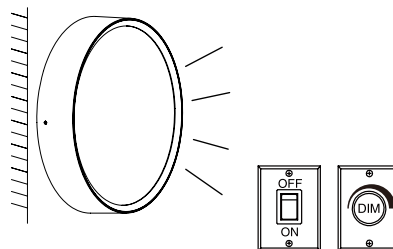


### Step 6



Buckle the frame back and fix it by proper tools.

### Step 7



Installation finished, turn on the switch.