

8203 Series

LED EMERGENCY LIGHTING



General Description

8203 series of LED emergency lights are micro in size, sleek, flush mounted and has option for switched maintained mode of operation for all models. With power consumption of only 5.5 watts, 90 degrees beam angle, and 180 lm flux output, this range of luminaires are the first choice of architects as the same model can be used for anti-panic and exit route lighting.



This series comes with options for one hour & 3 hours battery stand-by time, and has various models with options for self-contained manual testing, self contained auto testing and DALI monitored self contained luminaire.

AUTO Test

Auto-Test Option provides automatic testing of light fitting when used without DALI central monitoring option, and provides continuous monitoring of the unit and indicates service alert using dual-color LED lamp

The unit will automatically initiate a Self-Test and Self-Diagnostics test as follows:

- Verifies battery disconnection, charger failure, lamp failure and transformer
- failure at every 5 seconds.
- One minute self-testing every month.
- 30 minutes self-testing on the 6th month of the year after installation.
- 90 minutes self-testing on the 12th month of the year after installation.
- Automatically indicates lamp, battery and charger status by dual-color
- LED lamp.
- Factory preset - does not need field adjustment.

AUTO Test	
 TEST	GREEN COLOR (operating status) <ul style="list-style-type: none"> — ON: Ready — Blinking: Testing
 Dual color LED Lamp	RED COLOR (service alert) <ul style="list-style-type: none"> • : connect battery •• : battery fault ••• : charger board fault •••• : Transfer fault ••••• : emergency lamp fault •••••• : remote head lamp fault ••••••• : LED strip fault

Main Features

- Polycarbonate trim plate and die casting heat sink.
- Polycarbonate housing for LED driver and battery.
- LED self contained luminaire with manual test, AUTO test and DALI interface available.
- Ni-MH battery.
- Special reflector design suitable for escape pathway.
- Cut hole 42-50mm.
- RoHS compliance.

Manual Test

Tests are initiated manually, and can be initiated by the following action:

Press test button once	30 seconds test
Press test button twice (within 2 seconds)	3 minutes test
Press test button 3 times (within 2 seconds)	30 minutes test
Press test button 4 times (within 2 seconds)	1 hour or 3 hours test

Service Alert code for Manual Testing:

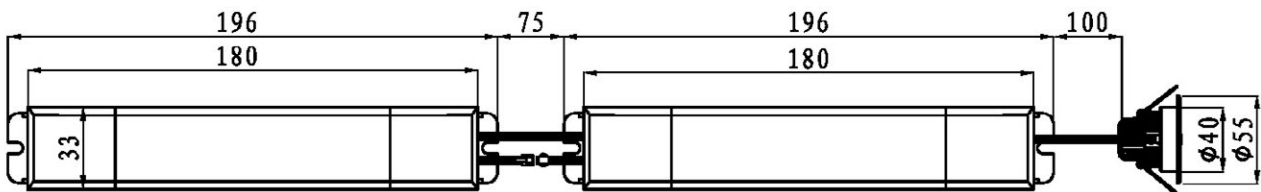
One blink ON/pause (4 seconds)	Battery is not connected
Two blink ON/pause (4 seconds)	Battery is shorted or Battery voltage drops below than acceptable value
Three blink ON/pause (4 seconds)	Charger board circuit fault
Four blink ON/pause (4 seconds)	Transfer fault
Five blink ON/pause (4 seconds)	Emergency lamp fault

TECHNICAL SPECIFICATION

Rated Power Supply	220-240VAC 50/60Hz
Power consumption	Max. 5.5W
Charge time	24 hours
Discharge duration	1 hour/3 hours
Changeover voltage	144-187VAC
Test facility	Manual test ,AUTO test, DALI interface
Operation	Non-maintained and Switched Maintained.
Mounting	Ceiling recessed mounting
Lighting source	3535 LED, 6500K
Normal flux	180 lm
Degree of protection	IP20
Insulation Class	Class II
Ambient temperature	0C - +25C
Certification	CE, CB, SAA, C-tick, TUV

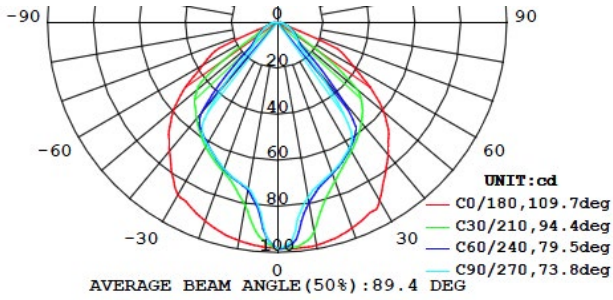
All models of our emergency lighting luminaires will maintain the same lux output during the entire emergency mode operation as specified (only the battery being used to power the lamp and fitting controls). This is achieved as our luminaires are working with "constant current" technology. The same current output is maintained even if the battery voltage goes down. The luminaire lamp current is totally cut off when the battery voltage falls below a certain pre-determined voltage. Leaving enough charge to power the control module.

DIMENSIONS (mm)



PHOTOMETRIC

Luminous intensity distribution



MODEL	8203	I _{max} (cd)	98.54
NOMINAL POWER (W)	4	LOR (%)	100.0
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	163.58
NOMINAL FLUX (lm)	163.582	CIE CLASS	DIRECT
LAMPS INSIDE	1	η up (%)	0.0
TEST VOLTAGE (V)	220	η down (%)	100.0

Complies Standards

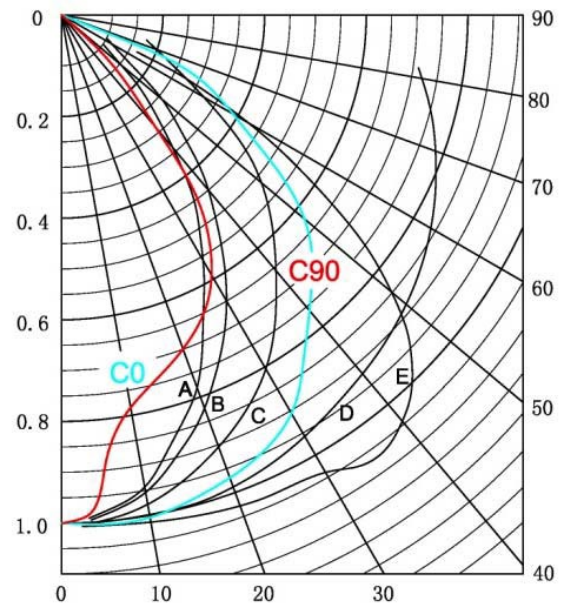
Luminaires complies with EN 60598-1, EN 60598-2-22, EN62493, EN 55015, EN 61547, EN61000-3-2, EN61000-3-3 AS/NZS 60598-1, AS/NZS 60598-2-22, AS/NZS2293.3

Luminaire mounting space

Compliant Australian standard AS2293.1;AS2293.3

Illuminance classification: C0:A63 C90:C80

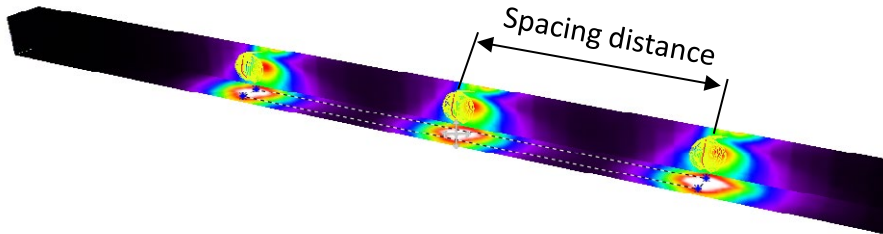
Horizontal illuminance at floor level is not less than 0.2 lx.



Mounting Height	Spacing (C90)	Spacing (C0)
2.7m	13.6m	11.4m
3.0m	14.8m	12.0m
3.6m	16.6m	12.4m

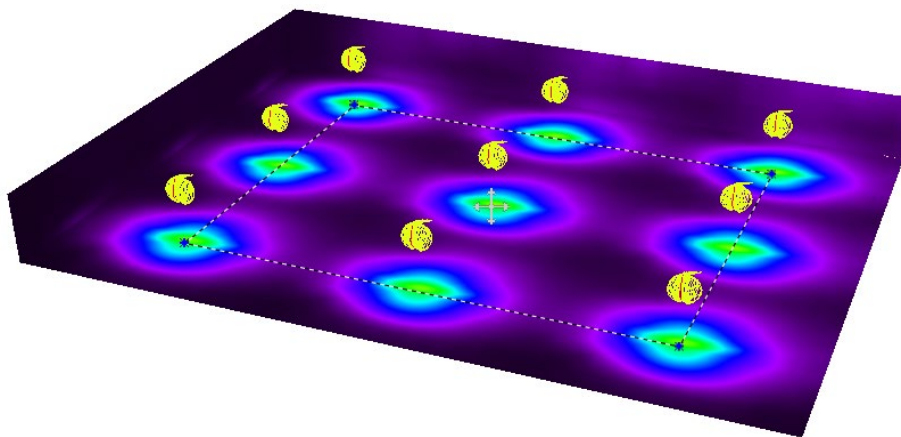


For escape route



Mounting Height			
2.5m	4.8m	12.0m	4.8m
3.0m	5.4m	13.5m	5.4m
3.5m	5.8m	14.5m	5.8m
4.0m	6.2m	15.5m	6.2m

For anti-panic area



Mounting Height					
2.5m	3.0m	10.0m	9.0m	7.5m	4.0m
3.0m	3.2m	11.0m	10.0m	8.0m	4.4m
3.5m	3.4m	11.5m	10.0m	8.5m	4.6m
4.0m	3.6m	12.0m	11.0m	9.0m	4.8m

**MODEL LIST**

Part number	Alternative part number	Duration (Hour)	Test facility	Operation	Battery	Flux (lm)
8203-3DH	EMDS3/1H/MT/MH	1h	Manual test	Switched-maintained & Non-maintained	Ni-Mh 7.2V600mA	180
8203-1AH	EMDS3/1H/AT/MH	1h	Auto test		Ni-Mh 7.2V600mA	180
8203-3MH	EMDS3/3H/MT/MH	3h	Manual test		Ni-Mh 7.2V1200mA	180
8203-3AH	EMDS3/3H/AT/MH	3h	Auto test		Ni-Mh 7.2V1200mA	180
8203-1DH	EMDS3/1H/DA/MH	1h	DALI		Ni-Mh 3.6V1300mA	180
8203-3DH	EMDS3/3H/DA/MH	3h	DALI		Ni-Mh 3.6V2600mA	180

ORDER GUIDE

X-Y-Z ARE THE THREE ALPHABETS AFTER THE SERIES NUMBER OF THE MODEL

X		Y		Z	
Battery stand-by Duration		Type of test		Battery Type	
1	For 1 Hr	M	Manual testing	L	Lithium Iron Phosphate
3	For 3 Hrs	A	Auto Testing	C	Nickle cadmium
		D	DALI	H	Nickel metal Hydride