

8204 Series

LED EMERGENCY LIGHTING



General Description

8204 series of LED emergency lights are micro in size, sleek, flush mounted and has option for switched maintained mode of operation for DALI models. With power consumption of only 4 watts, 90 degrees beam angle, and 340 to 360 lm flux output, this range of luminaires are the first choice of architects for exit route lighting.

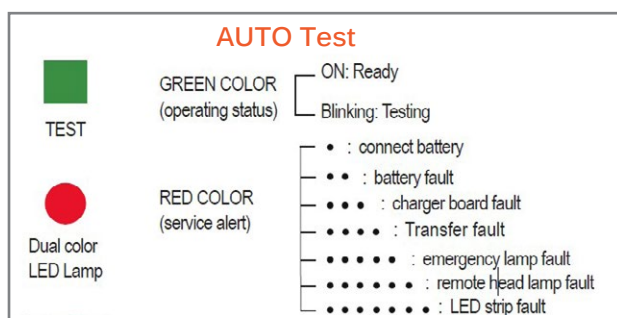
This series comes with options for one hour & 3 hours Ni-MH battery stand-by time, and has various models with options for self-contained manual testing, self contained auto testing and DALI monitored self contained luminaire.

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.



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, and DALI monitoring option.
- 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:

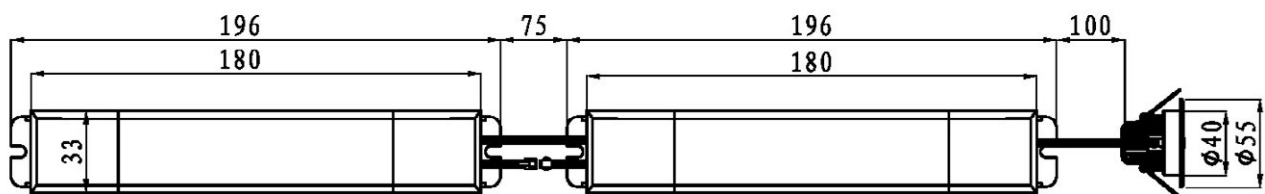
| | |
|-------------------------------------|---|
| One blink ON/pause (4 seconds) | Battery is not connected |
| Two blink ON/pause (4 seconds) | Battery is shorted or Battery voltage drops below than acceptable value |
| Three blink ON/pause (4 seconds) | Charger board circuit fault |
| Four blink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

TECHNICAL SPECIFICATION

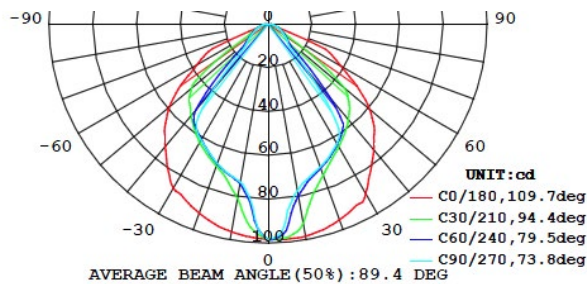
| | |
|----------------------|---|
| Rated Power Supply | 220-240VAC 50/60Hz |
| Power consumption | Max. 4W |
| Charge time | 24 hours |
| Discharge duration | 1 hour/3 hours |
| Changeover voltage | 144-187VAC |
| Test facility | Manual test ,AUTO test and DALI version |
| Operation | Non-maintained only for self contained, and option for main-tained or non-maintained or switched maintained for DALI enabled fittings |
| Mounting | Ceiling recessed mounting |
| Lighting source | 2pcs 3535 LED 6500K |
| Normal flux | 360 lm |
| Degree of protection | IP20 |
| Insulation Class | Class II |
| Ambient temperature | 0C - +40C |
| Certification | TUV, CE |

"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".

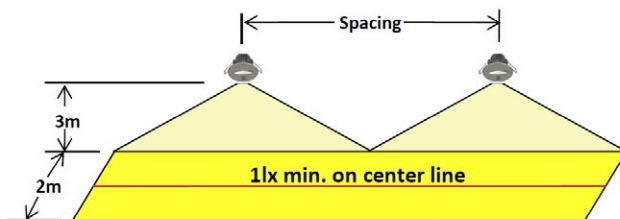
DIMENSIONS (mm)



PHOTOMETRIC



Luminaire mounting space



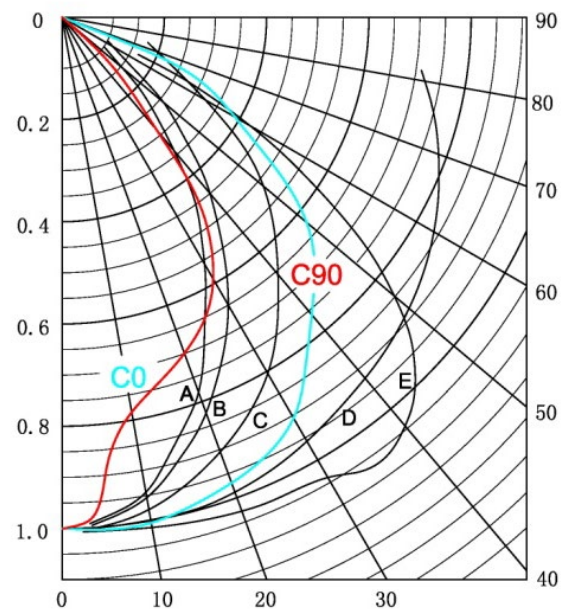
| Mounting Height | Spacing (C90) | Spacing (C0) |
|-----------------|---------------|--------------|
| 2.5m | 10.0m | 11.8m |
| 3.0m | 10.4m | 13.8m |
| 3.5m | 11.0m | 15.6m |

Complies Standards

Luminaire 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

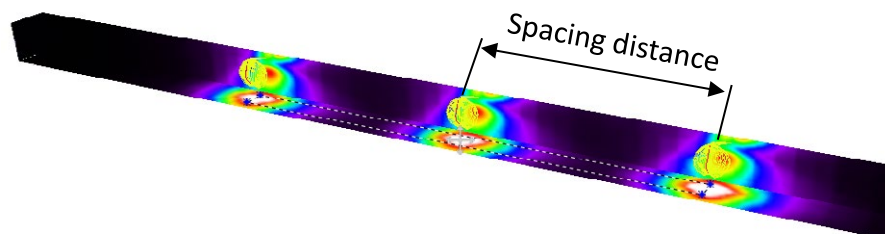
Luminaire mounting space

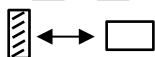

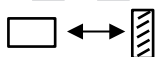
Compliant Australian standard AS2293.1;AS2293.3
Illuminance classification: C0:A100 C90:C160



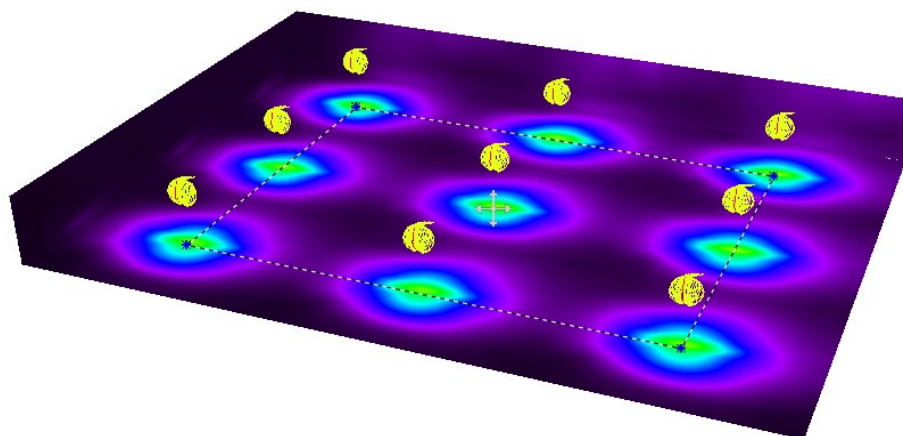
| Mounting Height | Spacing (C90) | Spacing (C0) |
|-----------------|---------------|--------------|
| 2.7m | 14.6m | 14.0m |
| 3.0m | 15.2m | 14.6m |
| 3.6m | 18.0m | 15.2m |

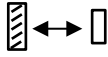

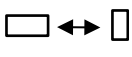
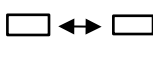
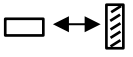
For escape route



| Mounting Height |  |  |  |
|-----------------|---|--|---|
| 2.5m | 5.6m | 14m | 5.6m |
| 3.0m | 6.0m | 15m | 6.0m |
| 3.5m | 6.8m | 17m | 6.8m |
| 4.0m | 7.2m | 18m | 7.2m |

For anti-panic area



| Mounting Height |  |  |  |  |  |
|-----------------|---|---|---|---|---|
| 2.5m | 4.8m | 12.0m | 11.0m | 9.0m | 3.6m |
| 3.0m | 5.2m | 13.0m | 12.0m | 10.0m | 4.0m |
| 3.5m | 5.6m | 14.0m | 12.5m | 10.5m | 4.2m |
| 4.0m | 6.0m | 15.0m | 13.5m | 11.0m | 4.4m |

MODEL LIST

| Part number | Alternative part number | Duration (Hour) | Test facility | Power Consumption | Battery | Operation | Flux (lm) |
|-------------|-------------------------|-----------------|---------------|-------------------|---------------------|---|-----------|
| 8204-1AH | EMDS4/1H/MT/MH | 1h | Manual test | 4w | Ni-Mh 7.2V800mA | Non-maintained | 360 |
| 8204-3MH | EMDS4/3H/MT/MH | 3h | Manual test | 4w | Ni-Mh 7.2V1800mA | Non-maintained | 360 |
| 8204-3AH | EMDS4/3H/AT/MH | 3h | AUTO test | 4w | Ni-Mh 7.2V1800mA | Non-maintained | 360 |
| 8204-1DH | EMDS4/1H/DA/MH | 1h | DALI | 8w | Ni-Mh 7.2V1800mA | Non-maintained, maintained or Switched maintained | 340 |
| 8204-3DH | EMDS4/3H/DA/MH | 3h | DALI | 8w | Ni-Mh 7.2V1800mA | Non-maintained, maintained or Switched maintained | 340 |

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 |