Emergency Lighting

COMPLETE EMERGENCY
LIGHTING SOLUTIONS

The CQR Emergency Lighting solution provides a comprehensive range of products for all your applications, supported by a full lighting design to ensure compliance and maximise safety for your project site.

1. BULKHEADS

BULKHEAD PLUS

- 150lm & 1000/1500lm
- Maintained and Non-Maintained
- IP65 & IP66 Options

BULKHEAD MAX

2. DOWNLIGHTS: RECESSED & SURFACE

- 120/130lm & 230/270lm
- Surfaced & Recessed
- Black & White Fittings

DOWNLIGHT: RECESSED

ESCAPE SQUARE

ESCAPE ROUND

3. EXIT BOXES

4. EXIT SIGNS

- Self-test Versions Available
- Optional Legends & Brackets
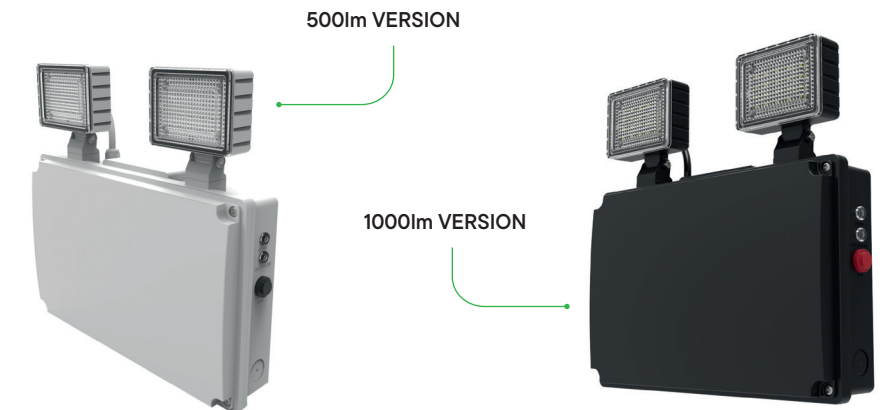- Available in Black & White Fittings

SLIM EXIT BOX

BLADE

EMERGENCY LIGHTING SOLUTIONS

5. TWIN SPOTS

500lm VERSION

- Standard & High Output
- Black & White Fittings
- IP65 & Self-test Options
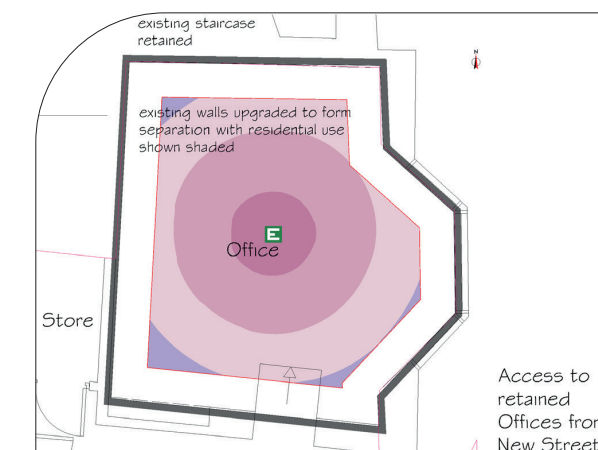
1000lm VERSION

PRODUCT TECHNOLOGY

LiFePO4

Lithium Ion LiFePO4 battery technology in all of our products. CQR Lithium Ion Phosphate provides double the effective battery life of standard batteries.

PRODUCT WARRANTY

WARRANTY 5 YEARS

Comprehensive 5 year warranty for the full product, including battery on all CQR Emergency Lighting Products.

DESIGN SOLUTION

Free lighting design service for customers purchasing from a CQR approved stockist.

Email: lightingdesign@cqr.co.uk

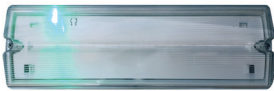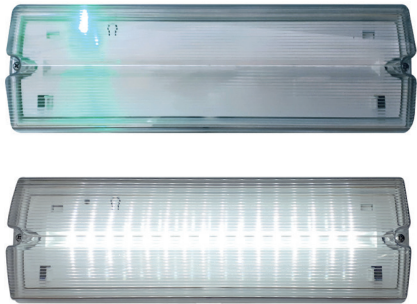Send your project requirements to our lighting design team for further details.

MAINTAINED v NON-MAINTAINED: WHAT IS THE DIFFERENCE?

Non-Maintained Emergency luminaires only operate during a power outage, where once activated the luminaires use their 3 hours of charged battery back up to provide adequate levels of light for the site's inhabitants to exit safely.

Maintained Emergency luminaires remain permanently on with a constant supply to ensure the battery is charged whilst the LED also remains illuminated at all times. This is commonly found in places of public assembly such as cinemas, leisure centres and other areas of public gathering.

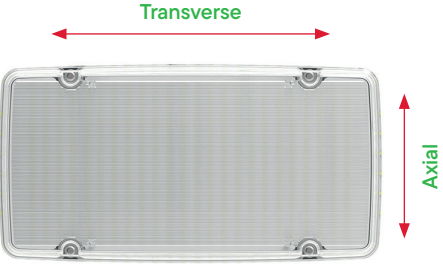## MANUAL TEST v SELF-TEST : WHAT IS THE BENEFIT?

Manual test luminaires can only be tested by removing power, waiting 3 hours and visually checking to see if the emergency lighting is still on. This manual process takes significant time and labour to check.

Self-test units perform their own tests to an internal timer, negating the need for manual testing. It is important however to visually inspect the self-test luminaires to see if they contain any error codes as per the referenced table to the side of this paragraph for our Bulkhead Plus Self-test model.

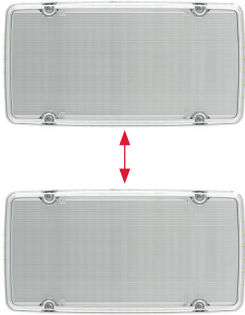| LED Colour	Status		On Time (Seconds)	Off Time (Seconds)	Description
Green		Permanent on	/	/	Normal status when mains connected
		Slow flash	1s	1s	Duration test running
		Fast flash	0.2s	0.2s	Function test running
		Normal flash three times only	0.5s	0.5s	Time reset
Red		Permanent on	/	/	Battery failure
		Slow flash	1s	1s	Lamp failure
		Fast flash	0.2s	0.2s	Duration failure - the capacity of the battery is not enough
Both Off		Off	/	/	Emergency mode

SPACING TABLES: WHAT IS THEIR PURPOSE?

CQR Emergency Luminaires are provided with spacing tables on our product data sheets or by following the QR code link on each product page of this catalogue. Spacing tables are used as quick reference guides for specifiers, without needing to run a full lighting design. The tables will allow the user to tell how far apart luminaires can be spaced whilst maintaining a minimum lux level. Full computer software generated lighting designs provide a more comprehensive solution however to spacing tables for larger projects.
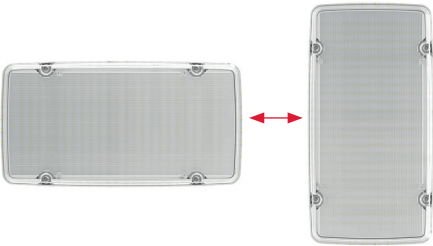
Spacing tables display a range of icons on the top line illustrating the different possible relationship between the luminaires and surroundings. The relationship to other luminaires, orientations, mounting height and surroundings significantly effects the lux level achieved at each point. The words 'transverse' and 'axial' simply tell you which way the luminaires are orientated. For the circular luminaires, they tell you which way the 'photometry' is orientated. Please see the below illustration of axial and transverse in relation to our emegerncy luminaire types:

SPACING TABLES TYPICALLY LOOK LIKE THE FOLLOWING FORMAT:

Spacing Data (1 lux)

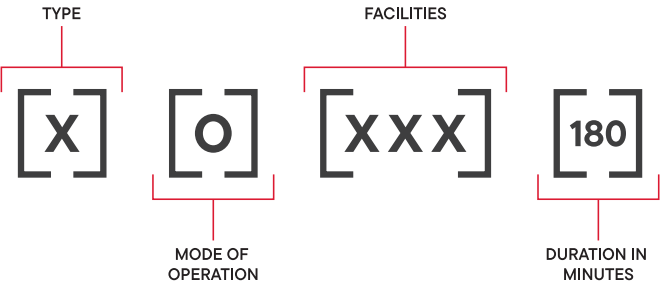| Mounting Height (m)					
2.50	1.57	4.77	6.74	8.92	3.64
3.00	1.32	4.55	6.94	9.57	3.49

Transverse

Axial

BULKHEAD MAX

TRANSVERSE TO TRANSVERSE
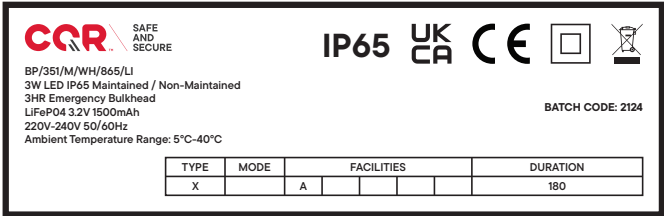
AXIAL TO TRANSVERSE

EMERGENCY LIGHTING CLASSIFICATIONS: WHAT ARE THEY?

In accordance with EN 60598-2-22 emergency luminaires are to be classified and marked according to their function and construction. On all Emergency luminaires a sticker is now visible with four squares as detailed below:

EMERGENCY LIGHTING CLSSIFICATION:

TYPE

FACILITIES

[X] [O] [X X X] [180]

MODE OF OPERATION

DURATION IN MINUTES

CQR CLASSIFICATION LABEL ON OUR EMERGENCY LUMINARIES:

CQR SAFE AND SECURE

IP65 UK CA CE

BP/351/M/WH/865/LI
3W LED IP65 Maintained / Non-Maintained
3HR Emergency Bulkhead
LiFePO4 3.2V 1500mAh
220V-240V 50/60Hz
Ambient Temperature Range: 5°C-40°C

BATCH CODE: 2124

TYPE	MODE	FACILITIES			DURATION
X		A			180

1. TYPE
X Self-Contained
Y Central Battery

2. MODE OF OPERATION
0 Non-Maintained
1 Maintained
2 Combined Non-Maintained
3 Combined Maintained
4 Compound Non-Maintained
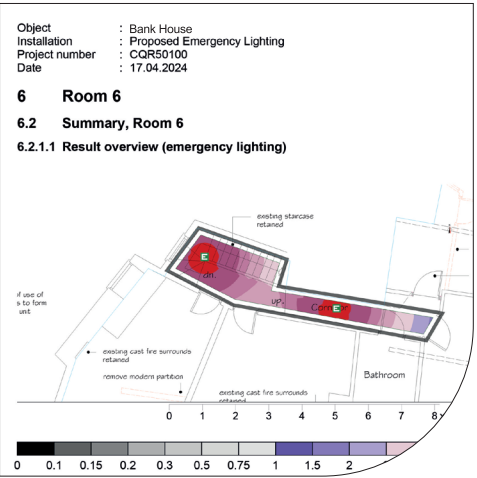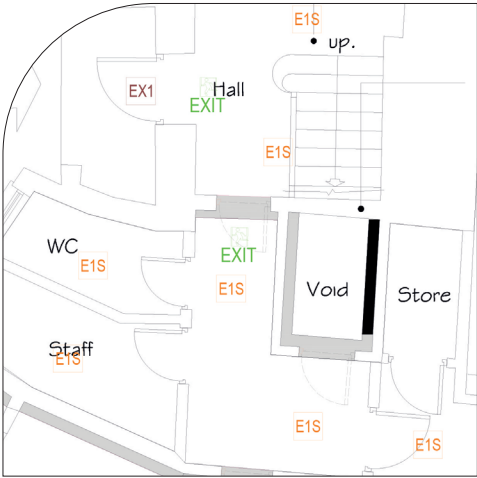5 Compound Maintained
6 Satellite

3. FACILITIES
A Including test device
B Including remote test device
C Including inhibiting mode
D High risk task luminaire
E Non-replaceable lamps or battery
F Automatic test gear
G Internally illuminated safety sign

4. DURATION IN MINUTES
10, 60, 120 or 180

LIGHTING DESIGN : WHY SHOULD YOU REQUEST A DESIGN?

CQR provides a complimentary Emergency Lighting design service for our stockist dealers, providing our customers with the full design plans and photometric data for added installer confidence and project support. CQR Emergency lighting designs will also show you the most efficient way to provide a compliant system utilising our wide range of luminaires to ensure the best product for the application requirements.

Object : Bank House
Installation : Proposed Emergency Lighting
Project number : CQR50100
Date : 17.04.2024

6   Room 6
6.2   Summary, Room 6
6.2.1.1 Result overview (emergency lighting)

CONTENTS
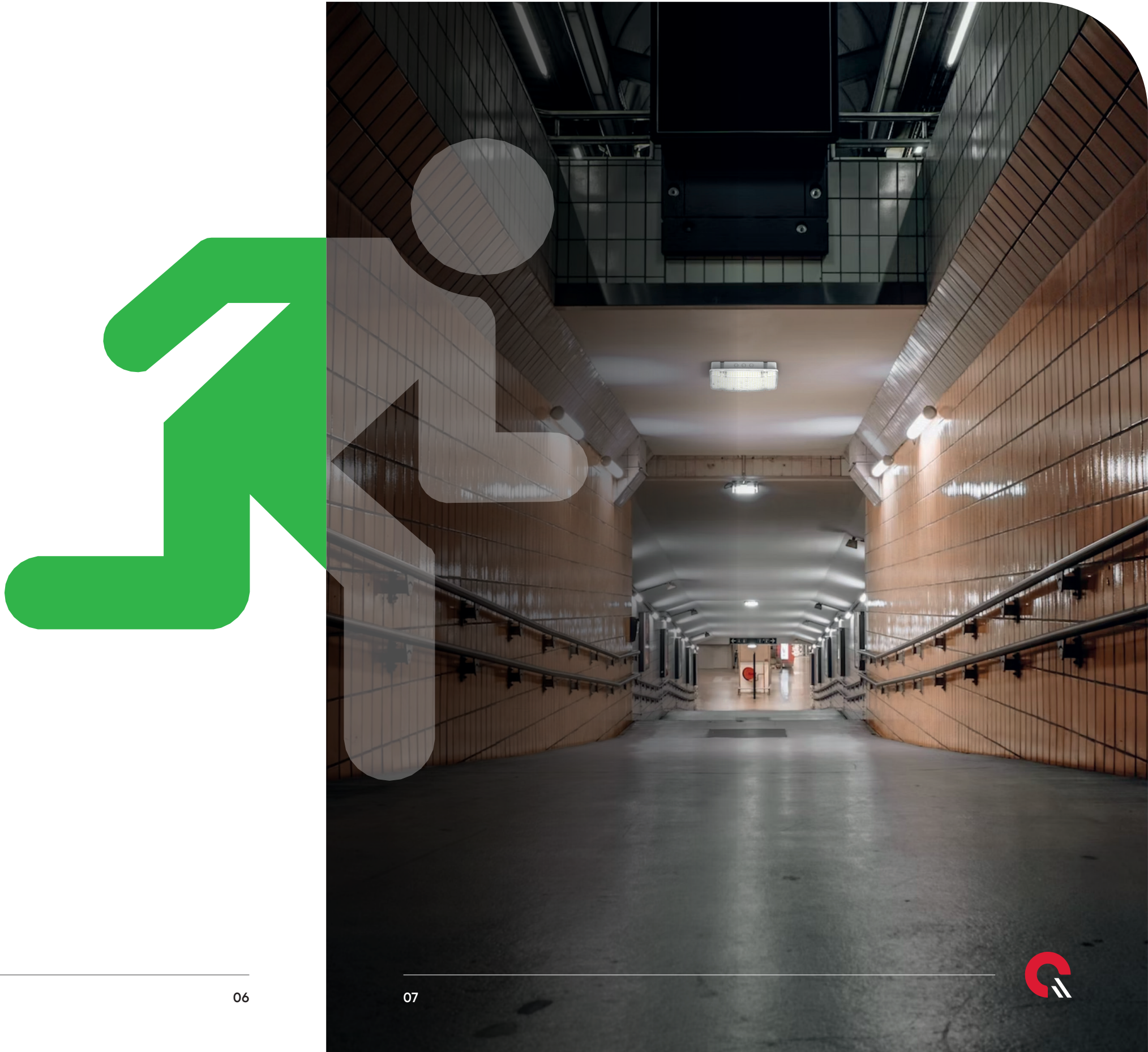
Emergency Bulkheads

Scan the QR code to see the product spacing data

111mm

351mm

63mm
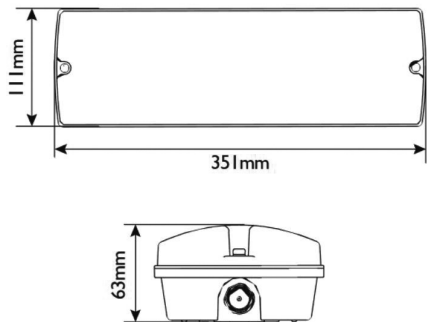
PRODUCT DESCRIPTION

- Class II, IP65, 3 hours emergency bulkhead
- Hinged gear tray with push fit terminals
- Maintained & non-maintained optionality as standard
- Installation – surface or recessed by mounting kit
- Manual test and Self-test options available
- Exit sign diffuser available to order
- 5 years warranty: full fitting and battery

OPTIONAL EXIT SIGN DIFFUSER AND LEGEND KIT
BP/EXITKIT

OPTIONAL RECESS KIT
BP/RECESSKIT
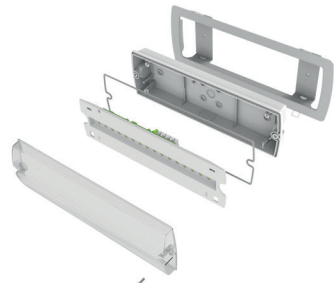
PRODUCT SPECIFICATION

| VOLTAGE	AC 220-240V
INPUT POWER	3.2W (Charging Mode) 1W (Emergency Mode)
LUMEN OUTPUT (MAINS)	150lm
LUMEN OUTPUT (EMERGENCY)	175lm
EMERGENCY DURATION	3 Hours
EMERGENCY POWER	1W
COLOUR TEMP	6500K
BEAM ANGLE	120°
RATED LIFE	L80 50,000hrs
IP RATING	IP65
MATERIAL	Polycarbonate
WARRANTY	5 Years: full fitting and battery

PRODUCT CODE	PRODUCT DESCRIPTION
BP/351/M/WH/865/LI	CQR LED Emergency Bulkhead Plus, 3W, Maintained, IP65, LiFePO4
BP/351/ST/WH/865	CQR LED Emergency Bulkhead Plus, SELF-TEST - 3W, Maintained, IP65, LiFePO4

ACCESSORY CODE	PRODUCT DESCRIPTION
BATTERY/18650/1500	CQR Replacement Battery Bulkhead Plus / Spot Downlight / Exit Box Slimline

Scan the QR code to see the product spacing data

167mm

321mm

83mm
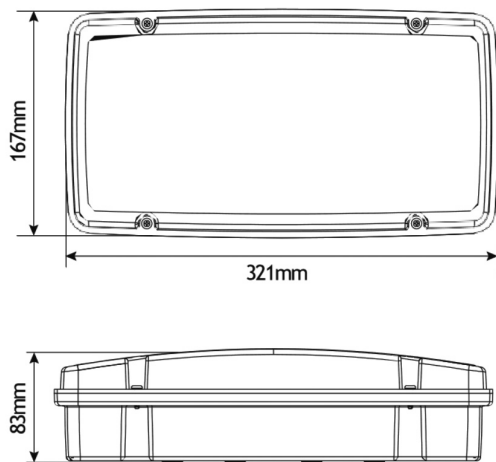
PRODUCT DESCRIPTION

- High Output Emergency Bulkhead: 1000/1500lm
- IP66: Ideal for high installations such as plant rooms or lift shafts
- Integrated gear tray into diffuser for easy install
- Non-maintained with self test options available
- Manual test and Self-test options available
- Emergency power: 6W/10W & 1000/1500lm
- 5 years warranty: full fitting and battery

PRODUCT SPECIFICATION

VOLTAGE	AC 220-240V
INPUT POWER	4.5W (Charge mode) 6.6W@1000lm (Emergency mode) 10W@1500lm (Emergency mode)
LUMEN OUTPUT (MAINS)	1000lm / 1500lm selectable
LUMEN OUTPUT (EMERGENCY)	1083lm / 1587lm
EMERGENCY DURATION	3 Hours
EMERGENCY POWER	6W / 10W
COLOUR TEMP	6500K
BEAM ANGLE	135°
RATED LIFE	L70 50,000hrs
IP RATING	IP66
MATERIAL	Polycarbonate
WARRANTY	5 Years: full fitting and battery

PRODUCT CODE	PRODUCT DESCRIPTION
BM/10/NM/WH/865	CQR LED Emergency Bulkhead MAX High Output, Non-Maintained, 1500lm, IP65-White
BM/10/ST/WH/865	CQR LED Emergency Bulkhead MAX High Output, SELF-TEST, 1500lm, IP65-White

ACCESSORY CODE	PRODUCT DESCRIPTION
BATTERY/26650/6600	CQR Replacement Battery Bulkhead Max / Twin Spots 2 x 500lm

Emergency Downlights
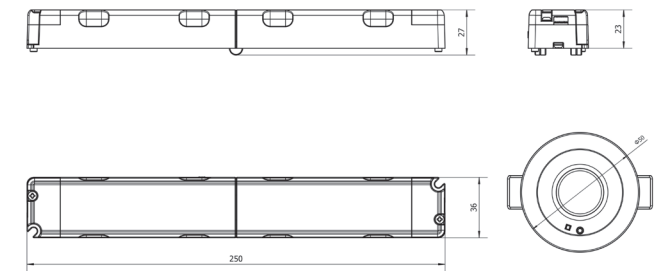
Scan the QR code to see
the product spacing data

PRODUCT DESCRIPTION

- Emergency Downlight Spot: Recessed
- Supplied with Open Area Lens (120lm) and
  Corridor Lens (130lm) as standard
- Foldable converter: easy to install
- Non-maintained fitting
- 5 years warranty: full fitting and battery
- Available in black and white
- Self-test functions available

OPEN AREA LENS
120lm

CORRIDOR LENS
130lm

BLACK EMERGENCY DOWNLIGHT
SP/1/NM/BK/865
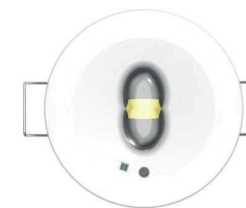
PRODUCT SPECIFICATION

VOLTAGE	AC 220-240V
INPUT POWER	1.2W (Charging power) / 0.4W (Charging power when battery full) / 1W (Emergency mode)
LUMEN OUTPUT (EMERGENCY)	Open Area Lens: 120lm and Corridor Lens: 130lm
EMERGENCY DURATION	3 Hours
EMERGENCY POWER	1W
COLOUR TEMP	6500K
BEAM ANGLE	165° (Open area) / 160° x 50° (Corridor)
RATED LIFE	L80 50,000hrs
IP RATING	IP20
MATERIAL	Polycarbonate
WARRANTY	5 Years: full fitting and battery

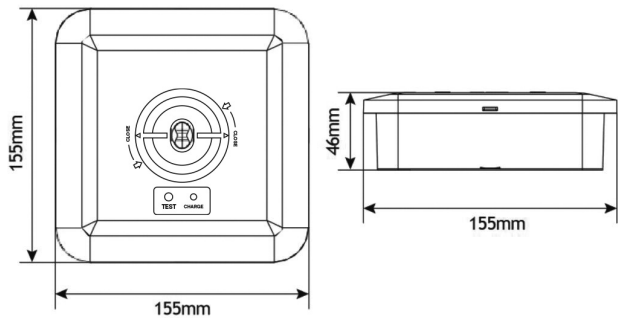| PRODUCT CODE	PRODUCT DESCRIPTION
SP/1/NM/WH/865	CQR LED Emergency Downlight Spot c/w Open Area & Corridor Lens - White
SP/1/NM/BK/865	CQR LED Emergency Downlight Spot c/w Open Area & Corridor Lens – Black
SP/1/ST/WH/865	CQR LED Emergency Downlight Spot - SELF-TEST - c/w Open Area & Corridor Lens - White

ACCESSORY CODE	PRODUCT DESCRIPTION
BATTERY/18650/1500	CQR Replacement Battery Bulkhead Plus / Spot Downlight / Exit Box Slimline

Scan the QR code to see
the product spacing data

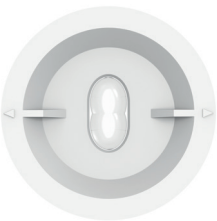155mm

46mm

155mm

155mm

PRODUCT DESCRIPTION

- Emergency Downlight: Surface Mount Escape Square
- Supplied with Open Area Lens (270lm) & Corridor Lens (230lm)
- IP65 rated
- 5 years warranty: full fitting and battery
- Available in black and white
- Self-test functions available
- 20mm conduit entry points
- Ideal for restaurants & large open areas

PRODUCT SPECIFICATION

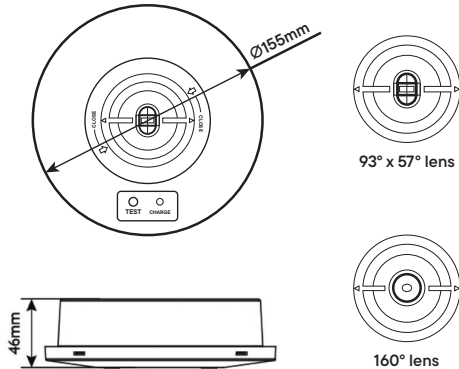| VOLTAGE	AC 220-240V
INPUT POWER	2W (Charging power) / 2W (Emergency mode)
LUMEN OUTPUT (EMERGENCY)	Open Area Lens: 270lm and Corridor Lens: 230lm
EMERGENCY DURATION	3 Hours
EMERGENCY POWER	2W
COLOUR TEMP	6500K
BEAM ANGLE	Open area - 150°/ Corridor - 80° x 30°
RATED LIFE	L80 50,000hrs
IP RATING	IP65
MATERIAL	Polycarbonate
WARRANTY	5 Years: full fitting and battery

OPEN AREA LENS
270lm
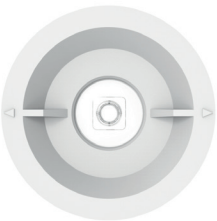
CORRIDOR LENS
230lm

BLACK ESCAPE SQUARE
ES/2/NM/BK/865

PRODUCT CODE	PRODUCT DESCRIPTION
ES/2/NM/WH/865	CQR LED Emergency Escape Square Surface Downlight c/w 2 Lens, IP65 – White
ES/2/NM/BK/865	CQR LED Emergency Escape Square Surface Downlight c/w 2 Lens, IP65 – Black
ES/2/ST/WH/865	CQR LED Emergency Escape Square Surface Downlight – SELF -TEST - c/w 2 Lens, IP65 – White

ACCESSORY CODE	PRODUCT DESCRIPTION
BATTERY/18650/3300	CQR Replacement Battery Escape Square & Round

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Scan the QR code to see
the product spacing data

Ø155mm

93° x 57° lens

46mm

160° lens
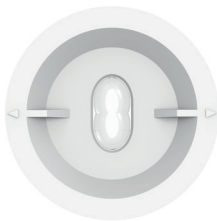
PRODUCT DESCRIPTION

- Emergency Downlight: Surface Mount Escape Round
- Supplied with Open Area Lens (270lm) & Corridor Lens (230lm)
- IP65 rated
- 5 years warranty: full fitting and battery
- Available in black and white
- Self-test functions available
- 20mm conduit entry points
- Ideal for restaurants & large open areas

PRODUCT SPECIFICATION

VOLTAGE	AC 220-240V
INPUT POWER	2W (Charging power) / 2W (Emergency mode)
LUMEN OUTPUT (EMERGENCY)	Open Area Lens: 270lm and Corridor Lens: 230lm
EMERGENCY DURATION	3 Hours
EMERGENCY POWER	2W
COLOUR TEMP	6500K
BEAM ANGLE	Open area - 150°/ Corridor - 80° x 30°
RATED LIFE	L80 50,000hrs
IP RATING	IP65
MATERIAL	Polycarbonate
WARRANTY	5 Years: full fitting and battery

OPEN AREA LENS
270lm
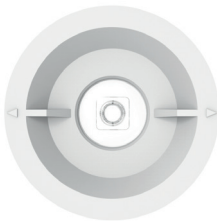
CORRIDOR LENS
230lm

BLACK ESCAPE ROUND
ER/2/NM/BK/865

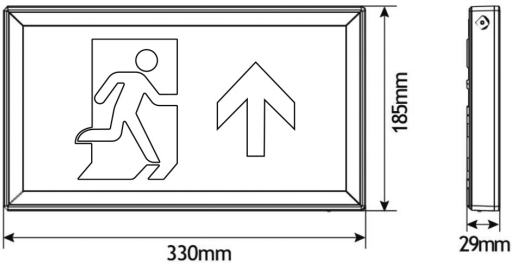| PRODUCT CODE	PRODUCT DESCRIPTION
ER/2/NM/WH/865	CQR LED Emergency Escape Round Surface Downlight c/w 2 Lens, IP65 – White
ER/2/NM/BK/865	CQR LED Emergency Escape Round Surface Downlight c/w 2 Lens, IP65 – Black
ER/2/ST/WH/865	CQR LED Emergency Escape Round Surface Downlight – SELF -TEST - c/w 2 Lens, IP65 – White

ACCESSORY CODE	PRODUCT DESCRIPTION
BATTERY/18650/3300	CQR Replacement Battery Escape Square & Round

Emergency Exit Boxes & Exit Signs

185mm
330mm
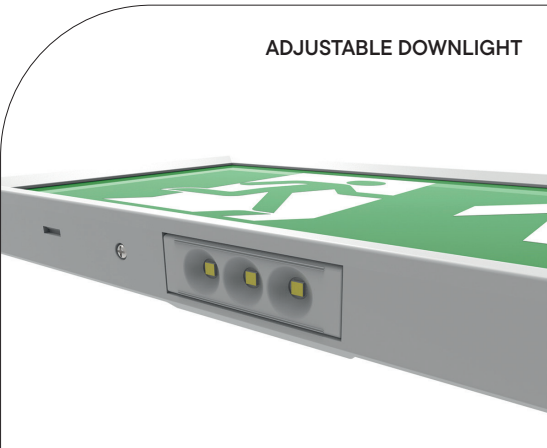29mm

PRODUCT DESCRIPTION

- Emergency slim exit box
- Includes arrow up legend
- Other legends available separately
- 30 metre viewing distance
- Angle adjustable downlight
- Maintained & Non-maintained optionality as standard
- Self-test function available
- Available in white and black

ADJUSTABLE DOWNLIGHT

BLACK SLIMLINE EXIT BOX
SE/4/M/BK/865

PRODUCT SPECIFICATION

VOLTAGE	AC 220-240V
INPUT POWER	<4W
LUMEN OUTPUT (EMERGENCY)	10lm (legend) 80lm (downward light)
VIEWING DISTANCE	30M
EMERGENCY DURATION	3 Hours
EMERGENCY POWER	1W
COLOUR TEMP	6500K
BEAM ANGLE	55°
RATED LIFE	L80 50,000hrs
IP RATING	IP20
MATERIAL	Polycarbonate
WARRANTY	5 Years: full fitting and battery

PRODUCT CODE	PRODUCT DESCRIPTION
SE/4/M/WH/865	CQR LED Emergency Slimline Exit Box c/w Arrow Up Legend - White
SE/4/M/BK/865	CQR LED Emergency Slimline Exit Box c/w Arrow Up Legend - Black
SE/4/ST/WH/865	CQR LED Emergency Slimline Exit Box - SELF-TEST - c/w Arrow Up Legend - WHITE

| ACCESSORY CODE	PRODUCT DESCRIPTION
SE/4/LEG/D	CQR Emergency Legend for Slim Exit Box, Arrow Down
SE/4/LEG/L	CQR Emergency Legend for Slim Exit Box, Arrow Left
SE/4/LEG/R	CQR Emergency Legend for Slim Exit Box, Arrow Right
BATTERY/18650/1500	CQR Replacement Battery Bulkhead Plus / Spot Downlight / Exit Box Slimline

PRODUCT DESCRIPTION

- 5 in 1 emergency exit sign
- Maintained & Non-maintained optionality as standard
- Includes arrow up legend
- Other legends available separately
- Wall and surface mount as standard
- Kits available for: recessed/flag & suspension mounting options
- LED indicator and test button
- Manual test and Self-test options available
- Available in white and black

313mm
42mm
161mm
212mm

PRODUCT SPECIFICATION

VOLTAGE	AC 220-240V
INPUT POWER	M = 3W, NM = 0.8W Emergency Mode = 0.8W
LUMEN OUTPUT (MAINS)	24lm
LUMEN OUTPUT (EMERGENCY)	23lm
VIEWING DISTANCE	30M
EMERGENCY DURATION	3 Hours
EMERGENCY POWER	0.8W
COLOUR TEMP	6500K
RATED LIFE	L70 50,000hrs
IP RATING	IP20
MATERIAL	Polycarbonate
WARRANTY	5 Years: full fitting and battery

PRODUCT CODE	PRODUCT DESCRIPTION
BL/310/M/BK/865	CQR LED Emergency Blade Exit Sign c/w Arrow Up Legend - Black
BL/310/M/WH/865	CQR LED Emergency Blade Exit Sign c/w Arrow Up Legend - White
BL/310/ST/WH/865	CQR LED Emergency Blade Exit Sign - SELF-TEST - c/w Arrow Up Legend - White
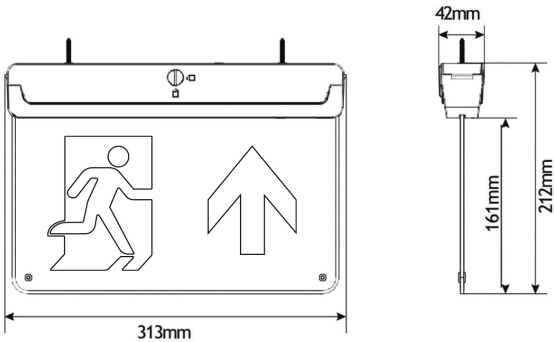
MULTI-FIX METHODS:
Wall and surface as standard
Recessed/flag and suspention kits required*

RECESSED BL/310/RECKIT/WH OR BK*

WALL AS STANDARD

FLAG BL/310/FLAGKIT/WH OR BK*

SURFACE AS STANDARD

SUSPENSION BL/310/SUSKIT/WH OR BK*

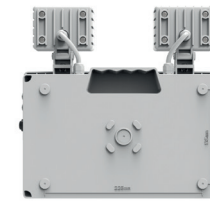| ACCESSORY CODE	PRODUCT DESCRIPTION
BL/310/LEG/D	CQR Emergency Legend for Blade Exit Sign, Arrow Down
BL/310/LEG/LR	CQR Emergency Legend for Blade Exit Sign, Arrow Left/Right
BL/310/RECKIT/WH	CQR Emergency Recessed Kit for Blade Exit Sign - White
BL/310/SUSKIT/BK	CQR Emergency Suspended kit for BLADE Exit Sign - BLACK
BL/310/SUSKIT/WH	CQR Emergency Suspended kit for BLADE Exit Sign - WHITE
BL/310/FLAGKIT/WH	CQR Emergency Flag Mounting Kit for Blade Exit Sign
BATTERY/18650/1100	CQR Replacement Battery Exit Sign Blade 5 in 1

Emergency Twin Spots

PRODUCT SPECIFICATION

	TS/4: 2 x 250lm	TS/8: 2 x 500lm
VOLTAGE	AC 220-240V	AC 220-240V
INPUT POWER	2.2W (Charging mode) 4W (Discharge mode)	4.2W (Charging mode) 9W (Discharge mode)
LUMEN OUTPUT (MAINS)	500lm	1000lm
LUMEN OUTPUT (EMERGENCY)	540lm	1139lm
EMERGENCY DURATION	3 Hours	3 Hours
EMERGENCY POWER	2.2W (Charging Mode) 4W (Discharge Mode)	4.2W (Charging Mode) 9W (Discharge Mode)
COLOUR TEMP	6500K	6500K
RATED LIFE	L70 50,000hrs	L70 50,000hrs
IP RATING	IP65	IP65
MATERIAL	Polycarbonate	Polycarbonate
WARRANTY	5 Years: full fitting and battery	5 Years: full fitting and battery
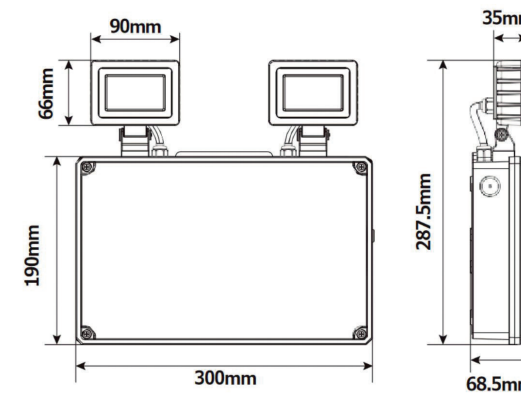
PRODUCT DESCRIPTION

- Emergency Twin Spots: 500lm & 1000lm versions
- 1000lm output version suitable for larger areas
- Narrow or wide beam angle options
- Self-test function available
- Available in white and black

PRODUCT CODE	PRODUCT DESCRIPTION
TS/4/NM/WH/865	CQR LED Emergency Twin Spot, 2 x 250lm, IP65 - White
TS/4/NM/BK/865	CQR LED Emergency Twin Spot, 2 x 250lm, IP65 - Black
TS/4/ST/WH/865	CQR LED Emergency Twin Spot - SELF-TEST - 2 x 250lm, IP65 - White
TS/8/NM/WH/865	CQR LED Emergency Twin Spot, 2 x 500lm, IP65 - White
TS/8/NM/BK/865	CQR LED Emergency Twin Spot, 2 x 500lm, IP65 - Black
TS/8/ST/WH/865	CQR LED Emergency Twin Spot - SELF-TEST - 2 x 500lm, IP65 - White

AVAILABLE IN BLACK FOR BOTH THE 2 X 250lm & 2 X 500lm VERSIONS

ACCESSORY CODE	PRODUCT DESCRIPTION
BATTERY/26650/6600	CQR Replacement Battery Twin Spots 2 x 250lm
BATTERY/26650/6600	CQR Replacement Battery Bulkhead Max / Twin Spots 2 x 500lm

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