



FIREscape

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(from Left to Right)

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Hochiki Offices

World Class Leaders in Life Safety Since 1918

Hochiki has a distinguished heritage of specialist technological expertise which has gained the group its international status as one of the world's leading manufacturers of commercial and industrial fire detection solutions. Established early in the twentieth century, Hochiki has remained an independent, multi-national company which now employs over 1500 personnel in total, operating five manufacturing plants, thirty-one sales offices and eighteen subsidiaries.

Hochiki Europe (UK) Ltd manufactures and distributes product for Europe, the Middle East, CIS, Indian Sub-Continent and Africa and is dedicated to providing sales and technical services to these markets.

World Proven Performance

With a heritage of innovative design and leading edge technologies, Hochiki's products have gained widespread acceptance as the benchmark for high-integrity and long-term reliability throughout the world.

Research and Development for Life Safety

Hochiki owns the world's largest, purpose-built, state of the art fire test laboratory. This ensures that the pedigree of Hochiki products remains unrivalled and guarantees that even large scale designs are fully proven in real fire conditions.

In addition, the Group employs over 100 specialist research and development engineers that undertake activities from fundamental research into the physical properties of fire, to hardware and software product design and development.

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KM 653255
BS EN60598-1:2015
BS EN 60598-2-22:2014
Emergency Luminaires



Hochiki
Europe is a
member of
ICEL

Emergency Lighting Solutions

2 Types of Emergency Lighting Solutions

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Emergency Lighting System

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Mains Powered Emergency Lighting

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Introduction

Emergency Lighting Solutions

Here at Hochiki, we offer two types of emergency lighting solutions comprising an entire emergency lighting system, FIREscape®, & a mains-powered emergency lighting solution - FIREscape lite.

www.hochikieurope.com/firescape

www.hochikieurope.com/firescapelite



Why is an emergency lighting system essential?

Aids Life Safety

Although some may see it as just a legal tick box, in an emergency, having adequate emergency lighting can be the difference between life and death. With adequate emergency lighting equipment, occupants can locate and identify fire equipment such as fire extinguishers and manual call points, increasing life safety. Additionally, lighting equipment permits safety operations such as first aid and fire fighting.

To Allow Safe Evacuation in an Emergency

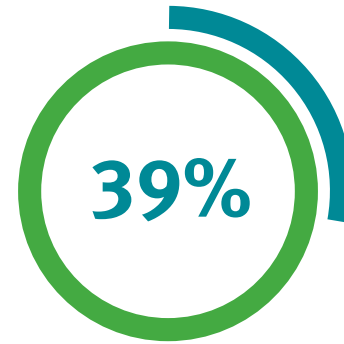
Without adequate visibility, even regular building occupants may struggle to navigate to the closest emergency exit. When you begin to factor in visitors who are not familiar with the layout of a building (for example in large buildings such as hospitals, airports and hotels), the danger becomes even more apparent.

To Meet the Legislation of Emergency Lighting

When installing an Emergency Lighting system, it is best practice to comply with the standards. Compliance with BS 5266 parts 1, 7 and 8 would be adequate for most premises, however, some local authorities have Licensing Scheme and Registration Scheme for certain types of premises, where the risks are much greater, including -

- ▶ Premises licenced for the sale of alcohol
- ▶ Very old premises, including heritage sites.
- ▶ Premises where large numbers of people are gathered together.

*STATISTICS TAKEN FROM THE HOCHIKI CUSTOMER SERVICE SURVEY DECEMBER 2016



Of installers reported
INADEQUATE
exit signage*

What problems must emergency lighting systems overcome?

Fire Safety Legislation

In the UK, the Fire Safety legislation requires emergency lighting to be provided in the following premises -

- ▶ Offices & shops
- ▶ Community halls
- ▶ Schools
- ▶ Hotels & Hostels
- ▶ Premises that provide care
- ▶ Common areas in houses in multiple occupation
- ▶ Pubs, clubs and restaurants
- ▶ Tents and marquees
- ▶ Factories and warehouses

Time Constraints

Emergency lighting systems must remain active for a minimum of 1 hour (autonomy) and must fully recharge within 24 hours before reoccupation. However, emergency lighting systems must remain active for a minimum of 3 hours in the following conditions -

- ▶ Sleeping risks (hotels)
- ▶ Lincenced premises and places of entertainment
- ▶ Premises requiring early reoccupation (schools, hospitals)

Luminosity

The luminaires and exit signs within an emergency lighting system must be strategically positioned and selected to best suit particular environments. Particular areas may require additional brightness, or particular styles of luminaires to assist in the evacuation or safety operations.



All of this information is available in our Emergency Lighting Guide Book which summarises BS5266, Part 1 2016 (shown above)

Emergency routes and exits requiring illumination must be provided with emergency lighting of adequate intensity in the case of failure of the normal lighting.

RRFSO, 2005

Benefits of the **FIREscape**® Range

FIREscape® is a unique, highly cost effective and environmentally friendly emergency lighting system based on LED technology and is the UK's first to be fully intelligent.

FIREscape® is based around an addressable, emergency lighting control panel with battery back-up and features addressable, self contained luminaires and signage connected via screened, extra-low voltage (40V) cabling. With lighting units fitting directly onto the standard Hochiki Europe sensor base (YBN-R/3),

The system is based on LED (Light Emitting Diode) solutions that consider the useful life of the entire emergency light system, from its installation to the recycling of the equipment at the end of the life-cycle.

Due to their self-contained backup power source, the **FIREscape**® lighting devices can use screened, non-fire rated cabling, instead of heavy and costly fire resistant cabling, reducing the installation costs associated with traditional emergency lighting systems.

The **FIREscape**® emergency light system has also been designed, bearing operational safety and user-friendliness in mind. It constantly controls the condition of the lights' LEDs and batteries. If necessary, the system will provide specific information on the status, either locally on a keypad or by representing it graphically at the control centre of the service provider using an IP or GSM network.

By using the optional PC-based graphical software, the luminaire status information can be linked with floor plans showing the alarm locations.

- ▶ Environmentally friendly in energy costs and CO₂e emissions
- ▶ A cost-efficient system to implement and maintain
- ▶ Exit luminaires and emergency exit signs share the same circuit
- ▶ Easy installation, Easy to service and maintain
- ▶ Reduced cabling costs
- ▶ Luminaire line length 500/1,000m
- ▶ Two lighting lines, up to 127 devices per line
- ▶ Operational reliability; luminaires feature integral stand-by batteries
- ▶ Automatic luminaire battery and LED health testing features

Energy Consumption and CO₂e Emissions

A FIREscape® exit sign luminaire consumes less than 0.5W, including the power loss. A similar 8W fluorescent light exit sign luminaire will consume approximately 12W. When compared to 230V LED lights, FIREscape® products save more than 50% of energy. The lower energy consumption directly correlates with lower CO₂e emissions. For example, replacing 100 230V fluorescent exit luminaires with FIREscape® LED-based exit lights, CO₂e emissions would be reduced by 2,100 KG annually.

Automatic Monitoring

FIREscape® luminaires use LEDs in order to generate the necessary illumination whilst using as low a current as possible. Even at its highest, the LED current usage is only 80% of the recommended currents of LED manufacturers.

In this way, the light power consumption has been kept to a minimum and the overall life of the LED has been extended.

Extra Low Voltage

Less than 5% energy consumption compared to traditional lighting

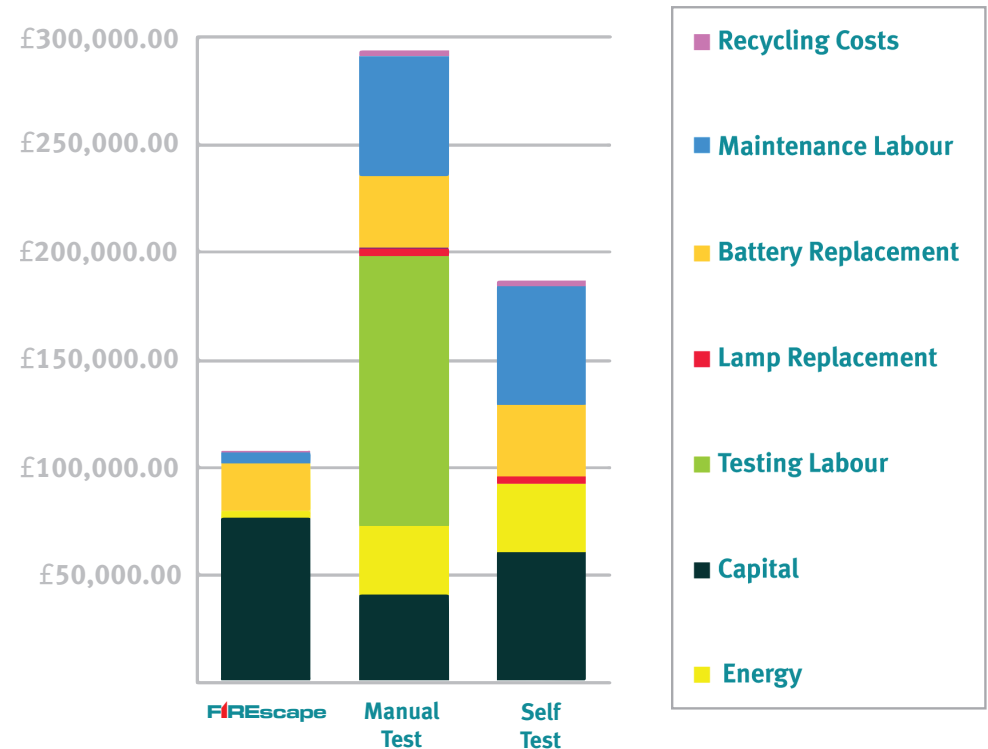
Simple Installation

Luminaires fit onto the standard Hochiki Europe sensor mounting base (YBN-R/3)

Low Maintenance

Less than 5% lamp changes when compared to traditional lighting

A 100 Luminaires System, Annual CO₂e emissions (KG), Energy Consumption (kWh)



LED Technology

Low carbon emissions – less than 5% CO₂e compared to traditional lighting

Intelligent

Unique intelligent addressable technology allows control and testing of individual luminaires

Graphics Software

Allows instant overview of complete system and assists in maintenance task

System Structure

FIREscape[®] brings new technology with new opportunities and solutions for emergency lighting. The core of the system is the addressable EL-2 control panel. Altogether 127 exit signs, route lights or Input/Output units can be connected to each of the two addressable lines totalling 254 devices per panel. Both exit signs and route lights utilise LED (Light Emitting Diode) technology, which guarantees around 10 years lifetime (for maintained devices). The unique 'Flex-it' hinge system in the exit signs allows both wall and ceiling mounting utilising the standard Hochiki sensor mounting base, YBN-R/3.

MAINTENANCE

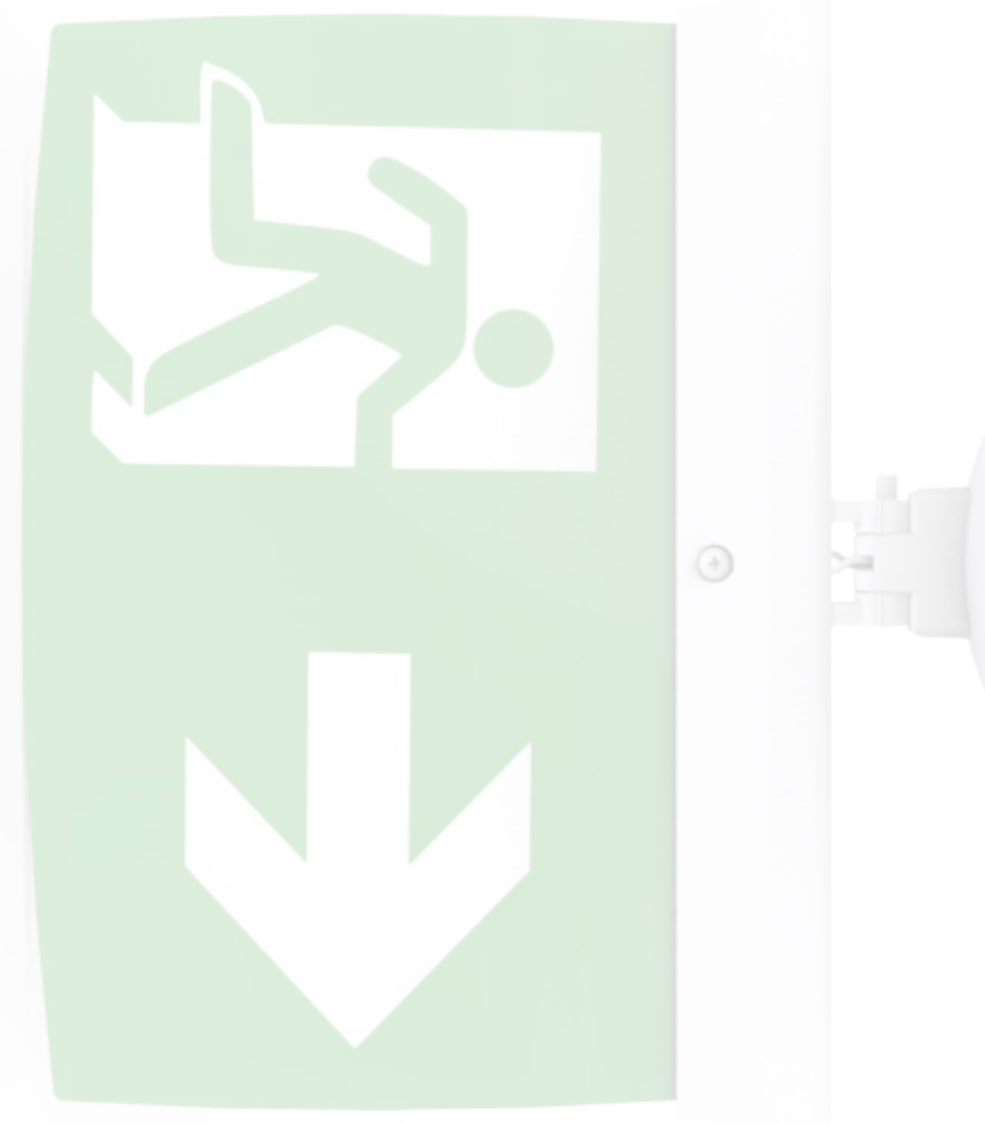
The EN 50172 emergency lighting system standard has placed particular attention on the operational condition of emergency light systems. The system should be regularly tested once a month, as a minimum. The EL-2 control panel continuously monitors the status of the luminaire LEDs and stand-by batteries. Information on completed tests is stored in the memory of the panel and test reports can be printed for end-user records.

CABLING

Cabling of the **FIREscape**[®] system is easily and quickly achieved using traditional screened cable. Fire-rated cable is not required because each luminaire on the system contains an integrated rechargeable stand-by battery. Lighting lines are wired as radial circuits with spurring permitted.

CONTROL CENTRE

Fault information from the **FIREscape**[®] emergency lighting system can be displayed using the optional EL-GRAPH graphic software which can show actual building floor-plans with activated areas and individual unit faults. The software can allow the **FIREscape**[®] emergency lighting system to be monitored from a control room/centre.



FIREscape®

Emergency Lighting System

FIREscape® is based around an addressable, emergency lighting control panel with battery back-up, and features addressable, self-contained luminaires and signage connected via screened, extra-low voltage (40V) cabling. With lighting units fitting directly onto the standard Hochiki Europe sensor base (YBN-R/3), FIREscape® offers the installer a brand new and easy solution to the installation of emergency lighting and signage.

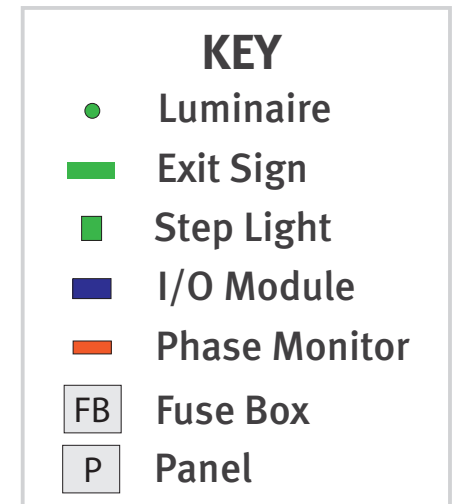
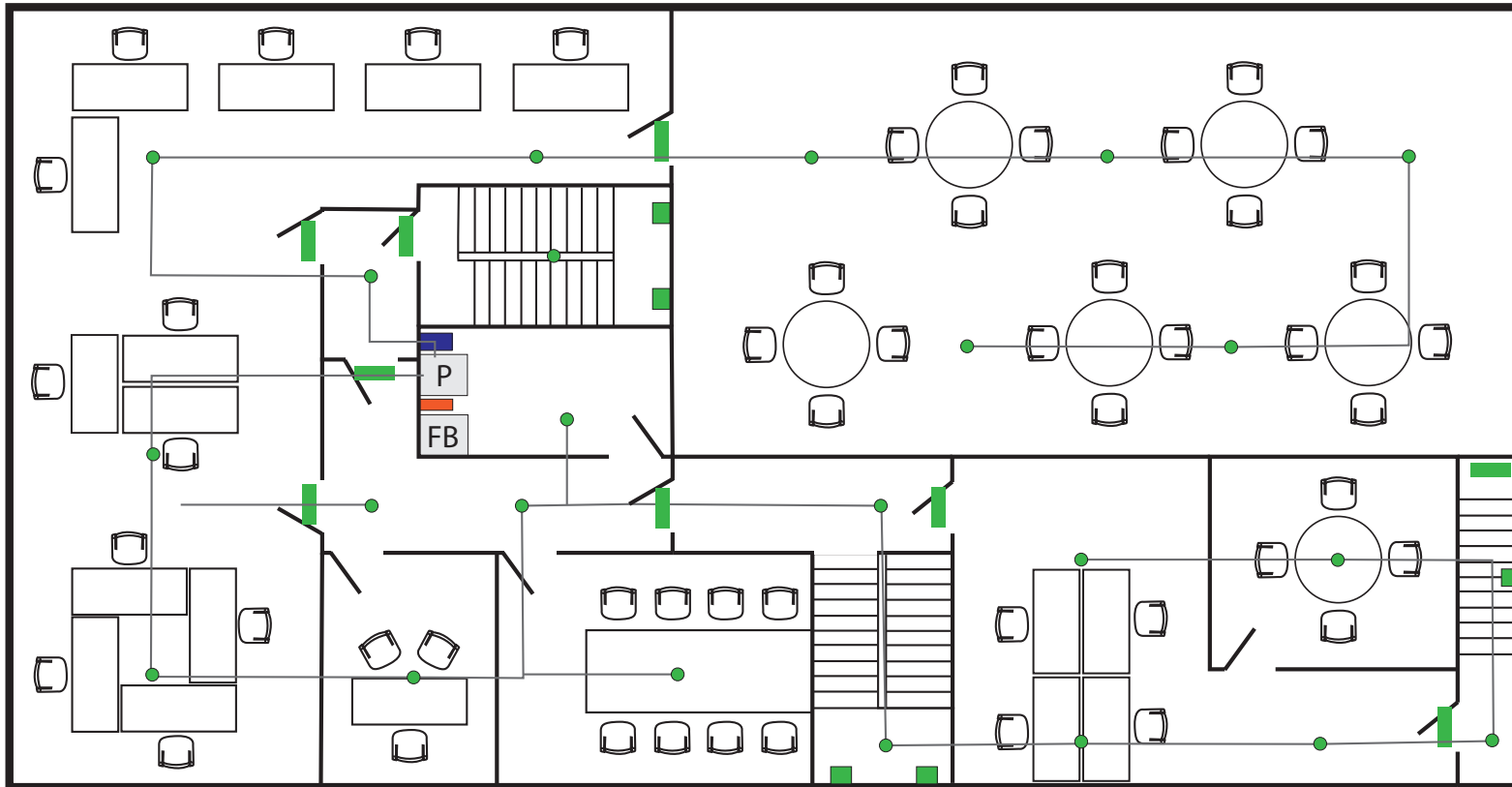
www.hochikieurope.com/firescape



Applications

The FIREscape® system is recommended for use in the following industries:

- ▶ Education
- ▶ Carehomes
- ▶ Industrial
- ▶ Hotel & Leisure
- ▶ Healthcare
- ▶ Commercial



System Architecture Example



EL-2 Addressable Control Panel

The EL-2 emergency light control panel features two lines, each line can accommodate 127 exit signs, route lights or I/O units. The EL-2 supplies the operational voltage to the light units during normal conditions, whilst also completing the continuous testing and monitoring of the equipment on the system. All monitored event information is saved in the memory of the control panel, and this can be accessed by a connected EL-KP key pad (see page 23).

NOTE: Must be used in conjunction with the EL-35V Transformer - see opposite.

Number of lights/signs supported	254
Connection voltage	35 V ac (222 VA)
Nominal voltages	12 V dc
Internal batteries capacity	7.2 Ah
I/O outputs	2 relay outputs
Modem/PC connection	RS-232
User panel connection	RS-485/9600 baud
Event memory	500 events
Dimensions (mm)	W270 x H345 x D90
Material/Colour	Sheet steel, powder coated / White
Weight including batteries (kg)	8



EL-35V

is a transformer for the EL-2 emergency light control panel.

- ▶ 35 VAC, 220 VA
- ▶ Input: 230 V ac
- ▶ Output: 35 V ac / 220 VA
- ▶ Protection class: IP44
- ▶ Operational temperature: max 30°C
- ▶ Wall installation: with three screws
- ▶ Manufacturing class: SS 4270203 (EN60742)
- ▶ Weight: 3.2 kg



20m Addressable Exit Sign

An LED-based, addressable 20m viewable exit light with a flexible 'flex it' hinge solution. The exit light's hinge cup contains the electronics and stand-by battery and allows the unit to attach to the standard Hochiki YBN-R/3 sensor mounting base. The cup also features a bicoloured status LED indicating charge/fault status (green for charging, red for fault).



EL-20G-R(ISO)

20m Lens, RIGHT arrow
(ISO7010)



EL-20G-D(ISO)

20m Lens, DOWN arrow
(ISO7010)



EL-20(WHT)

20m Emergency Exit Sign
Frame, White (Battery and
mounting base required)



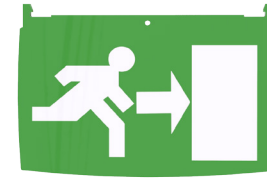
EL-20G-L(ISO)

20m Lens, LEFT arrow
(ISO7010)



EL-20G-U(ISO)

20m Lens, UP arrow
(ISO7010)



Older Design

The previous lens designs for the 20m exit sign are still available to purchase from Hochiki, for retro-fit projects. However, please note - these do not meet the ISO 7010 standard.

Product Code

EL-20G-R

EL-20G-D

EL-20G-L

EL-20G-U

Description

Standard 20m Right Lens

Standard 20m Down Lens

Standard 20m Left Lens

Standard 20m Up Lens



40m Addressable Exit Sign

An LED-based, addressable 40m viewable exit light with a flexible 'flex it' hinge solution. The exit light's hinge cup contains the electronics and stand-by battery and allows the unit to attach to the standard Hochiki YBN-R/3 sensor mounting base. The cup also features a bicoloured status LED indicating charge/fault status (green for charging, red for fault).



EL-40G-R(ISO)

40m Lens, RIGHT arrow
(ISO7010)



EL-40G-D(ISO)

40m Lens, DOWN arrow
(ISO7010)



EL-40(WHT)

40m Emergency Exit Sign Frame,
White (Battery and mounting
base required)



EL-40G-L(ISO)

40m Lens, LEFT arrow
(ISO7010)



EL-40G-U(ISO)

40m Lens, UP arrow
(ISO7010)



Older Design

The previous lens designs for the 40m exit sign are still available to purchase from Hochiki, for retro-fit projects. However, please note - these do not meet the ISO 7010 standard.

Product Code

EL-40G-R

EL-40G-D

EL-40G-L

EL-40G-U

Description

Standard 40m Right Lens

Standard 40m Down Lens

Standard 40m Left Lens

Standard 40m Up Lens



EL-REC20 & EL-REC40 Recess Adaptor

These recess adaptor brackets allow a semi-flush fitting of the EL-20 and EL-40 exit signs. The brackets need to be fitted with an exit sign and a mounting base (not supplied) and are equipped with spring loaded clips for secure fixing to most suspended ceiling materials. The brackets feature a small inspection hole in the ceiling plate which allows sight of the bicoloured status LED on the exit sign cup within the ceiling void.

Available in two sizes.

Order Codes	EL-REC20	EL-REC40
Adaptor Bracket Colour	White	White
Material	Powder-coated metal	Powder-coated metal
Dimensions (mm)	L250 x W120 x H110	L380 x W120 x H110
Cut-out dimensions (mm)	L220 x W90	L350 x W90
Maximum ceiling thickness (mm)	35	35
Weight (g)	500	650



FIREscape

FIREscape
We 01.09. 09:32:30
[Square icon with right arrow]

- 1
- 2 ABC
- 3 DEF
- 4 GHI
- 5 JKL
- 6 MNO
- 7 PQRS
- 8 TUV
- 9 WXYZ
- C
- 0
- [Up arrow]

HOCHIKI

EL-KP Lighting System Keypad

EL-KP is an emergency lighting control panel keypad for use with the EL-2 panel. The control panel is operated and interrogated through the compact backlit LCD graphical display of the keypad, which can show system status of the lighting units including battery charge and LED faults.

One EL-2 control panel can support a total of 8 EL-KP keypad units, with up to a max of 15 panels on one system.

Nominal voltage	12 V dc
Display	LCD graphical display - 128 x 65 pixels
Display viewing area (mm)	60.0 x 32.5
Case colour	Light grey
Dimensions (mm)	W147 x H144 x D29
Material/Colour	Metal alloy, powder coated/Ivory
Weight (g)	410



Shown with YBN-R/3 Mounting Base - Sold Separately

EL-DL2 Corridor Down Light

EL-DL2 is an LED-based, addressable corridor down light featuring one high-powered LED with a specially engineered dual surface free-form optic. The unit's body contains the electronics and the stand-by battery and features a bicoloured status LED indicating charge/fault status (green for charging, red for fault).

The unit has been designed to easily fit onto Hochiki's standard sensor base, the YBN-R/3.

Case colour	White (RAL 9003 "Signal White")
Case material	Fire resistant PC + ABS plastic (FR3010)
Fire class	UL94 V-0
Operation time	1h / 3h
Dimensions (mm)	100 Ø x H48 (inc. 8mm for YBN-R/3 base)
Weight including battery (g)	100



EL-BAT450

is a rechargeable Lithium/Polymer back-up battery for use with luminaires and exit signs within the **FIREscape**® range.

- ▶ 459mAh
- ▶ 7.4 V
- ▶ For use with luminaires and exit signs
- ▶ Ideal for cold facilities, minimum operating temperature -25°C
- ▶ Provides the BS5266 minimum 3h back-up time
- ▶ Incorporates deep discharge protection circuitry



Shown with YBN-R/3 Mounting Base - Sold Separately

EL-DL3 Open Space Down Light

EL-DL3 is an LED-based, addressable open space down light featuring one high-powered LED with a specially engineered dual surface free-form optic. The unit's body contains the electronics and the stand-by battery and features a bicoloured status LED indicating charge/fault status (green for charging, red for fault).

The unit has been designed to easily fit onto Hochiki's standard sensor base, the YBN-R/3.

Case colour	White (RAL 9003 "Signal White")
Case material	Fire resistant PC + ABS plastic (FR3010)
Fire class	UL94 V-0
Operation time	1h / 3h
Dimensions (mm)	100 Ø x H48 (inc. 8mm for YBN-R/3 base)
Weight including battery (g)	100



EL-BAT450

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- ▶ For use with luminaires and exit signs
- ▶ Ideal for cold facilities, minimum operating temperature -25°C
- ▶ Provides the BS5266 minimum 3h back-up time
- ▶ Incorporates deep discharge protection circuitry



Shown with YBN-R/3 Mounting Base - Sold Separately

NFW89/C High Power Corridor Down Light

The NFW89/C Corridor luminaire is an addressable processor controlled device using modern LED technology and is equipped with a battery. It uses one conductor pair for both power and communication. The conductors are connected to a separate round mounting base onto which the luminaire is mounted. The luminaire uses a bigger battery than standard and needs a battery spacer NFW/BS (supplied). The battery is mounted into the spacer and the spacer is connected to the luminaire with bayonet fix. The package is then mounted onto the base.

Case colour	White (RAL 9003 "Signal White")
Case material	Aluminium
Fire class	UL94 V-0
Operation time	TBC
Dimensions (mm)	100 Ø x H65 (inc. base sealing mounting)
Weight including battery (g)	100



NF89 Battery

is a rechargeable Lithium/Polymer back-up battery specifically for use with the NFW89/C and NFW89/O high power luminaires within the FIREscape® range.

- ▶ 2950mAh
- ▶ 7.4 V
- ▶ For use with the NFW89/C & NFW89/O



Shown with YBN-R/3 Mounting Base - Sold Separately

NFW89/O High Power Open Area Down Light

The NFW89/O Open Area luminaire is an addressable processor controlled device using modern LED technology and is equipped with a battery. It uses one conductor pair for both power and communication. The conductors are connected to a separate round mounting base onto which the luminaire is mounted. The luminaire uses a bigger battery than standard and needs a battery spacer NFW/BS (supplied). The battery is mounted into the spacer and the spacer is connected to the luminaire with bayonet fix. The package is then mounted onto the base.

Case colour	White (RAL 9003 "Signal White")
Case material	Aluminium
Fire class	UL94 V-0
Operation time	TBC
Dimensions (mm)	100 Ø x H65 (inc. base sealing mounting)
Weight including battery (g)	100



NF89 Battery

is a rechargeable Lithium/Polymer back-up battery specifically for use with the NFW89/C and NFW89/O high power luminaires within the FIREscape® range.

- ▶ 2950mAh
- ▶ 7.4 V
- ▶ For use with the NFW89/C & NFW89/O



NFW68/89-RA Recess Adaptor

The NFW68/89-RA is a mounting adaptor for the Emergency Lighting product range and their associated mounting bases. It allows a base and light combination to be flush mounted by providing a recess fixing in the ceiling.

(shown with luminaire fitted – sold seperately)

Allows all current FIREscape luminaires to be flush mounted: EL-DL2, EL-DL3, NFW89/O, NFW89/C

Also requires YBN-R/3 Mounting Base, sold seperately.

Operating temperature range	-10°C to +50°C
Storage temperature range	-30°C to +60°C
Maximum humidity	95RH - non condensing (at 40°C)
Colour/material	White / ABS
Weight (g) / Diameter (mm) / Height (mm)	65 / 140 / 44
Height when fitted flush (mm)	3
Drilled hole size (mm)	128

EL-SL Addressable Step Luminaire

An LED-based, addressable step lighting unit, which is installed semi-flush. The stand-by battery is contained within the unit.

Although low-level lighting is not a requirement under BS5266 this attractive and discreet unit is ideal for lighting stairway treads and changes in floor levels.

Case colour	White (RAL 9003 "Signal White")
Material	Fire resistant PC + ABS plastic (FR3010)
Fire class	UL94 V-0
Operation Time	1h / 3h
Dimensions (mm)	W80 x H80 x D12
Weight including battery (g)	110

Accessories

Hochiki offers a wide range of accessories which can be used in conjunction with the FIREscape® system.



EL-PSU

is a bus-controlled power supply, which operates with the system providing charge to luminaire batteries.

- ▶ Switched-mode power source
- ▶ Parallel connection for outputs max 2.5mm²
- ▶ Outputs: 12 V dc / 24 V dc (2 x 5 A)
- ▶ Batteries: 2 units, 7 Ah / 1 hr standby time
- ▶ Group-specific monitoring of emergency lighting
- ▶ Controlled using EL-IO units
- ▶ Designed for 12/24 lights

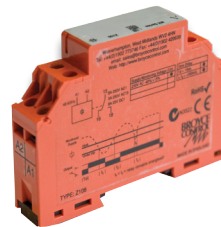
NOTE: A remote power supply is required to power any non-addressable slave luminaires



EL-BDC

is a battery monitoring card for use with the EL-2 Emergency Lighting control panel.

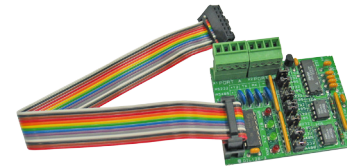
- ▶ The unit is used to prevent the deep discharge of the panel's battery during long-duration (over 50h) power outages



EL-PM

is an under-voltage monitoring device that constantly assesses the condition of a mains lighting circuit. When the lighting circuit is deemed faulty, the unit will provide a signal that can be related to the control equipment to initiate emergency luminaire activation.

- ▶ Triggers at 75% of the nominal lighting circuit supply
- ▶ DIN rail mounted
- ▶ Power and output indications



EL-EXP

is an expansion unit used for expanding the serial ports of the EL-2 Emergency Light control panel. The unit provides two additional ports, SER1 and SER2.

- ▶ Provides two additional serial ports within the control panel
- ▶ Ports can be configured either as RS-232 or RS-485
- ▶ Four integral LEDs to integrate communications



EL-8RC

is a relay card which adds 8 relay outputs to the control panel. Each output can be programmed with all necessary functions, including links to other systems. Up to 4 cards can be connected to the panel simultaneously.

- ▶ Provides 8 relay outputs 1A at 30V
- ▶ RS-485 channel connection (DIL-128)
- ▶ A total of 4 cards can be connected to the same channel
- ▶ Dimensions: 110 x 75 x 42 mm
- ▶ Fits to DIN rail



EL-BAT450

is a rechargeable Lithium/ Polymer back-up battery for use with luminaires and exit signs within the range.

- ▶ 450mAh
- ▶ 7.4 V
- ▶ For use with luminaires and exit signs
- ▶ Ideal for cold facilities, minimum operating temperature -25°C
- ▶ Provides the BS5266 minimum 3h back-up time
- ▶ Incorporates deep discharge protection circuitry.



NF89 Battery

is a rechargeable Lithium/ Polymer back-up battery specifically for use with the NFW89/C and NFW89/O high power luminaires within the range.

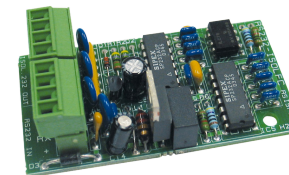
- ▶ 2950mAh
- ▶ 7.4 V
- ▶ For use with the NFW89/C & NFW89/O



EL-IO

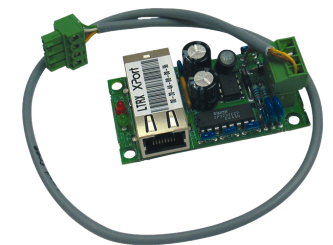
is an I/O unit which is connected to a line of the EL-2 Emergency Lighting control panel, from which it receives its power. The unit links test switches and phase monitors to the system.

- ▶ 450mAh, 7.4 V
- ▶ For use with luminaires and exit signs.
- ▶ Ideal for cold facilities, minimum operating temperature -25°C
- ▶ Provides the BS5266 minimum 3h back-up time
- ▶ Incorporates deep discharge protection circuitry.



EL-ISOL

is an isolator device which should be used when connecting external equipment to the EL-2 Emergency Lighting control panel's RS232 outputs, to avoid ground leakages.



EL-LAN

is an RS232 to Ethernet adapter, designed for connecting the EL-2 Emergency Lighting control panel to an Ethernet network.

- ▶ 10/100 Mbit/s
- ▶ Operation voltage 9-30 V dc
- ▶ Power feed from the EL-2 Emergency Lighting control panel (PRG screw connector)
- ▶ Maximum distance from the panel is 200m



EL-SWT5

is a 5-port ethernet switch, which can be used for splitting an Ethernet network and extending CAT cabling.

- ▶ RJ45 connectors
- ▶ Maximum distance to the next switch or terminal unit 100m
- ▶ 10/100 Mbit/s
- ▶ Operational voltage 18.5 to 30.2 V dc
- ▶ Electricity consumption ~ 90 mA (at 24 V dc)



EL-SWT8

is an 8-port Ethernet switch, which can be used for splitting an Ethernet network and extending CAT cabling.

- ▶ RJ45 connectors
- ▶ Maximum distance to the next switch or terminal unit 100m
- ▶ 10/100 Mbit/s
- ▶ Operational voltage 18.5 to 30.2 V dc
- ▶ Electricity consumption ~ 90 mA (at 24 V dc)



YBN-R/3

is a common mounting base, which is used to mount the range of luminaires and exit signs.

- ▶ Electronics free
- ▶ Stainless steel contacts
- ▶ Accepts 2.5mm² conductors
- ▶ Slim profile - only 8mm
- ▶ Quick and easy 'twist on' connection of luminaires



TCH-B200

is a Hand Held Address Programmer, designed to be light, robust and easy to use. It operates from a single PP3 size battery.

- ▶ Lightweight design
- ▶ Quick and reliable addressing
- ▶ Over 8000 address settings from one battery



SBB-2

is a back box, providing a secure fixing for the luminaires and mounting base. Provides an aesthetically pleasing solution where surface fixed devices are required. The housing supports four 20mm glanded entries for cabling access.

- ▶ 4 glanded cable entry holes (glands not supplied)
- ▶ Colour matched
- ▶ Provides moisture and dust resistant fixing



NFW68 89-IP44

is an external weather-proof enclosure, designed to allow the external mounting of the EL-DL down lights. The enclosure features one cable entry which can be glanded.

- ▶ Robust design
- ▶ Provides IP44 protection but can be upgraded to IP66 using sealant,
- ▶ Metal, powder-coated body, acrylic dome



EL-DEB

is an external weatherproof enclosure and bracket, designed to allow the external mounting of the EL-DL3 open space down light. The bracket section features two cable entries which can be glanded.

- ▶ Suitable for EL-DL3 only (open space down light)
- ▶ Robust design, Provides IP67 rating
- ▶ 2 cable entries can be glanded
- ▶ Metal, powder-coated enclosure and bracket, acrylic dome

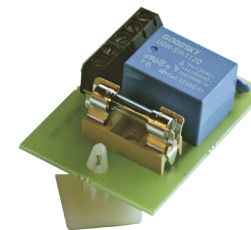


EL-MC

is a media adaptor capable of converting a dual cable to Ethernet in order to extend an Ethernet network across a dual cable connection.

- ▶ RJ45 connector for Ethernet / screw connector for dual cable
- ▶ Max range up to 10 km* resulting in a max transfer capacity 15.3 Mbps*
- ▶ Installation in pairs ('master' and 'slave' units)
- ▶ No MAC or IP addresses
- ▶ Supply voltage 18-30 Vdc
- ▶ Max current consumption 180mA

*Depending on data rate and cable cross section



EL-1RC

is a relay card for use with the EL-2 Emergency Lighting control panel.

- ▶ Equipped with one volt-free relay output which can be as N/O or N/C
- ▶ Control voltage 12 V dc
- ▶ Electricity consumption 37.5 mA (at 12 V dc)
- ▶ Dimensions: 50 x 37 mm



EL-BBA1

A BESA Box Adaptor Plate, which allows adjustment of the YBN-R/3 mounting base to allow correct alignment of exit signs and luminaires. Supplied with fixing screws.



YZU-A

is an angled ceiling bracket. It allows all current luminaires to be mounted: EL-DL2, EL-DL3, NFW89/O & NFW89/C

- ▶ Easy to install
- ▶ Allows the luminaires and mounting base to be angled



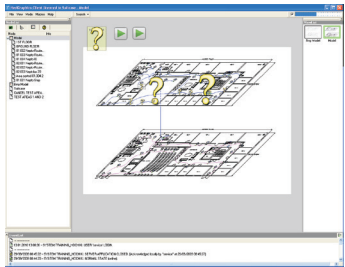
YZU-B

is a fixed angle wall bracket, which allows all current luminaires to be mounted: EL-DL2, EL-DL3, NFW89/C & NFW89/O where the detector cannot be fixed to a ceiling.

- ▶ Easy to install
- ▶ Requires a mounting base for the luminaires

Software & Hardware

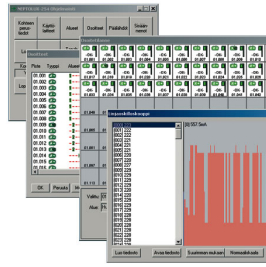
Hochiki offer a range of enhanced graphics software, which can be used alongside the FIREscape® system.



EL-GRAPH

is an alarm graphics package, which allows the end-user to visually check on the status of the complete FIREscape system, down to individual point status.

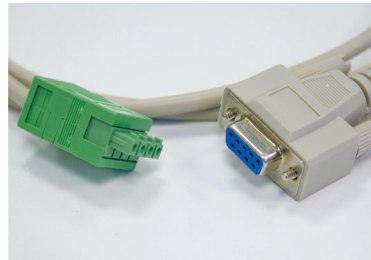
- ▶ Fully integrated graphics package
- ▶ Individual point monitoring
- ▶ Reports point status information
- ▶ Point interrogation and control



EL-IMP

is a configuration & programming software tool for use with the EL-2 emergency lighting control panel. The software is used to configure light levels, set up lighting areas and create input and output parameters during set-up commissioning.

- ▶ Allows configuration of luminaires
- ▶ Allows configuration of input/output devices
- ▶ Assists in fault finding
- ▶ Allows uploading and downloading of data
- ▶ Assists in report generation and retrieval



EL-CAB

is a connection cable for use between the EL-2 Emergency Lighting control panel and a PC/laptop.



EL-USB

is an adaptor for use in conjunction with the EL-CAB for connections to PCs/laptops that don't feature a serial port.

FIREscape lite

Mains Powered, Emergency Lighting Solution

FIREscape lite is an innovative, self-diagnosing, mains powered, LED-based emergency lighting solution, based on the world-proven intelligent lighting system, FIREscape.

This highly cost effective and environmentally friendly range of self-contained luminaires and exit signs, features a uniquely designed 'step-down' transformer, which allows the units to be mains-powered.

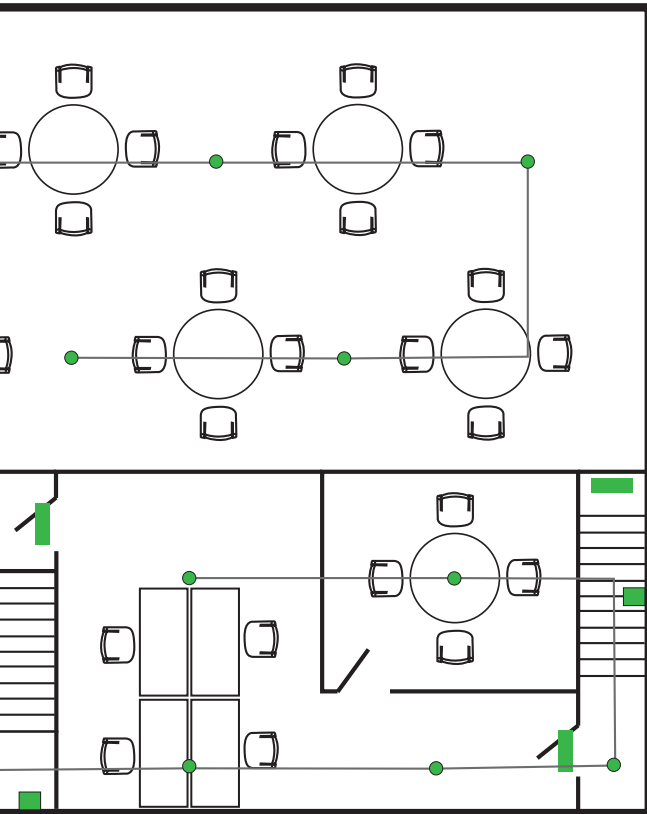
www.hochikieurope.com/firescapelite



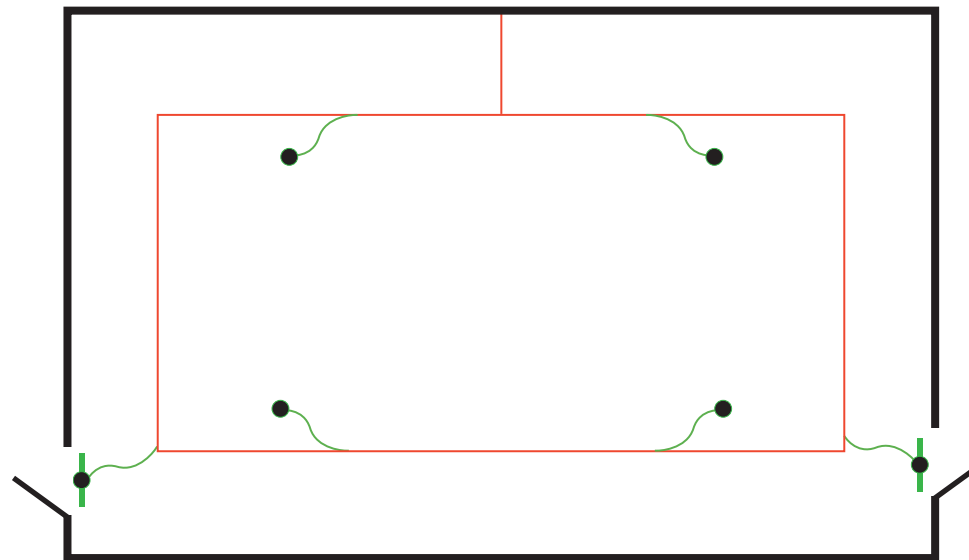
Applications

The FIREscape lite system is recommended for use in the following applications -

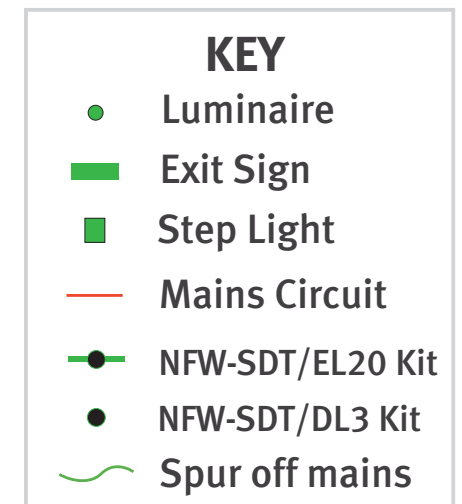
- ▶ Standalone buildings
- ▶ Temporary structures
- ▶ Change of use
- ▶ Building sites
- ▶ Instant compliance after risk assessment



System Architecture Example



Within this lighting system, there are six autonomous, self-testing luminaires and exit signs. These are wired from a permanent live feed from the local lighting supply.





Exit Sign Kits

These innovative exit sign kits can be spurred of the mains and work as a mains-powered, LED-based emergency lighting solution. All kits come with a step down transformer, a step down transformer spacer, a common mounting base and rechargeable lithium battery as standard.



NFW-SDT/EL20R

20m Frame RIGHT arrow
Legend (ISO7010)



NFW-SDT/EL20L

20m Frame LEFT arrow
Legend (ISO7010)



NFW-SDT/EL20U

20m Frame UP arrow
Legend (ISO7010)



NFW-SDT/EL20D

20m Frame DOWN arrow
Legend (ISO7010)



NFW-SDT/EL40R

40m Frame RIGHT arrow
Legend (ISO7010)



NFW-SDT/EL40L

40m Frame LEFT arrow
Legend (ISO7010)



NFW-SDT/EL40U

40m Frame UP arrow
Legend (ISO7010)



NFW-SDT/EL40D

40m Frame DOWN arrow
Legend (ISO7010)



Luminaire Kits

These innovative luminaire kits can be spurred of the mains and work as a mains-powered, LED-based emergency lighting solution. All kits come with a step down transformer, a step down transformer spacer, and a common mounting base as standard.



NFW-SDT/DL2

Intelligent Corridor Down Light
Rechargeable Lithium Battery



NFW-SDT/DL3

Open Space Down Light
Rechargeable Lithium Battery



NFW-SDT/NF89/C

High-powered Corridor Luminaire
Rechargeable High Power Battery



NFW-SDT/NF89/O

High-powered Open Space Luminaire
Rechargeable High Power Battery

Accessories

Hochiki offers a wide range of accessories which can be used in conjunction with the **FIREscape lite** system.



EL-BAT450

is a rechargeable Lithium/Polymer back-up battery for use with luminaires and exit signs within the **FIREscape** range.

- ▶ 450mAh
- ▶ 7.4 V
- ▶ For use with luminaires and exit signs
- ▶ Ideal for cold facilities, minimum operating temperature -25°C
- ▶ Provides the BS5266 minimum 3h back-up time
- ▶ Incorporates deep discharge protection circuitry.

NF89 BATTERY

is a rechargeable Lithium/Polymer back-up battery specifically for use with the NFW89/C and NFW89/O luminaires within the **FIREscape** range.

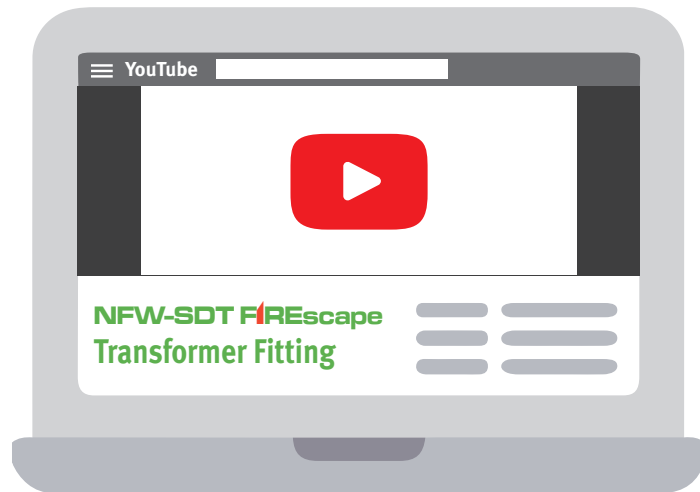
- ▶ 2950mAh
- ▶ 7.4 V
- ▶ For use with the NFW89/C & NFW89/O

NOTE: A remote power supply is required to power any non-addressable slave luminaires

Simple Steps to create FIREscape lite

Please follow the simple steps shown in the pictures to the right, to fit your FIREscape lite exit sign or luminaire kit to the ceiling.

To find out more information and guidance on how to fit your kit to the ceiling, please go to the Hochiki YouTube channel.



Scan QR code to watch our
NFW-SDT FIREscape
Transformer Fitting Video



STEP 1

Once spurred off the mains, fix the transformer onto the ceiling

STEP 2

Fix the spacer on top of the transformer

STEP 3

Fix the base on top of the spacer

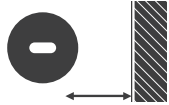

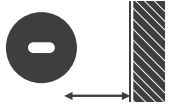

STEP 4

Finally, you can twist fit your luminaire or exit sign

Photometric Data

EL-DL2
Corridor Luminaire



NON-MAINTAINED			MAINTAINED		
2m Wide Corridor			2m Wide Corridor		
Mounting Height (m)	Spacing 1 Lux Axial to Wall	Spacing 1 Lux Axial Between	Mounting Height (m)	Spacing 1 Lux Axial to Wall	Spacing 1 Lux Axial Between
					
2.00	4.56	9.82	2.00	4.56	9.70
2.40	5.18	11.40	2.40	5.02	11.20
2.50	5.31	11.80	2.50	5.15	11.56
2.60	5.45	12.12	2.60	5.24	11.84
2.70	5.55	12.48	2.70	5.32	12.18
2.80	5.66	12.80	2.80	5.40	12.50
2.90	5.75	13.10	2.90	5.48	12.80
3.00	5.83	13.44	3.00	5.50	13.12
3.10	5.90	13.80	3.10	5.50	13.40
3.20	5.95	14.08	3.20	5.46	13.70
3.30	5.96	14.38	3.30	5.31	13.98
3.40	5.95	14.66	3.40	3.32	14.20
3.50	5.90	14.94	3.50	2.75	14.44

**While every care is taken, Hochiki design assistance is offered purely as advice and should be checked against both client and insurance requirements*

EL-DL3
Open Area Luminaire



NON-MAINTAINED	Open Area to 0.5 Lux	
Mounting Height (m)	Spacing to Wall	Spacing Between
2.00	2.85	6.19
2.40	3.19	7.14
2.50	3.25	7.37
2.60	3.30	7.57
2.70	3.32	7.78
2.80	3.31	7.99
2.90	3.31	8.20
3.00	3.04	8.37
3.10	2.79	8.56
3.20	2.55	8.73

MAINTAINED	Open Area to 0.5 Lux	
Mounting Height (m)	Spacing to Wall	Spacing Between
2.00	2.76	6.08
2.40	3.04	6.96
2.50	3.08	7.20
2.60	3.04	7.41
2.70	2.93	7.61
2.80	2.70	7.78
2.90	2.47	7.95
3.00	2.19	8.15

*While every care is taken, Hochiki design assistance is offered purely as advice and should be checked against both client and insurance requirements

NFW89/C

High Powered Corridor Luminaire



NFW89/O

High Powered Open Area Luminaire

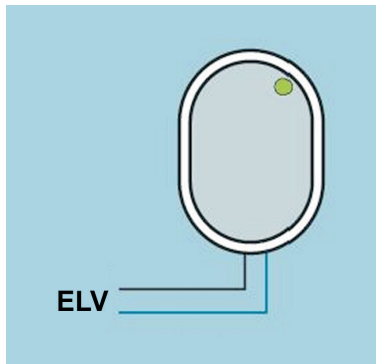


NON-MAINTAINED	2m Wide Corridor	
Mounting Height (m)	Spacing 1 Lux Axial to Wall	Spacing 1 Lux Axial Between
2.00	4.60	9.00
2.20	5.00	9.60
2.50	5.50	10.60
2.70	5.90	11.60
3.00	6.60	12.60
3.50	7.20	14.20
4.0	8.00	15.60
4.50	8.90	17.00
5.00	9.60	19.00
6.00	10.50	20.00
7.00	12.00	22.00

MAINTAINED	Open Area to 0.5 Lux	
Mounting Height (m)	Spacing to Wall	Spacing Between
2.00	3.32	6.79
2.20	3.61	7.50
2.50	4.03	8.49
2.70	4.31	9.05
3.00	4.67	9.90
3.50	5.37	11.31
4.00	6.01	12.59
4.50	6.51	13.86
5.00	7.00	15.13
6.00	7.64	17.39
7.00	7.14	19.23
8.00	5.44	20.51

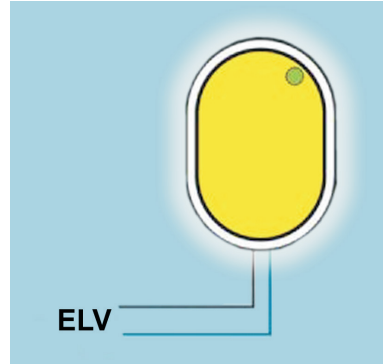
*While every care is taken, Hochiki design assistance is offered purely as advice and should be checked against both client and insurance requirements

Design Guide



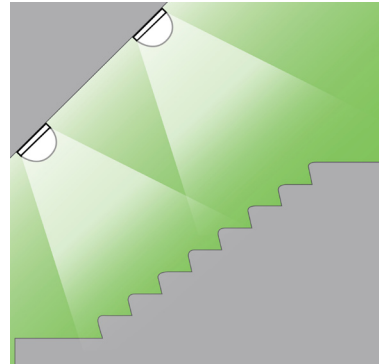
Non-maintained

The lighting only operates when the normal mains supply fails (emergency lighting only).



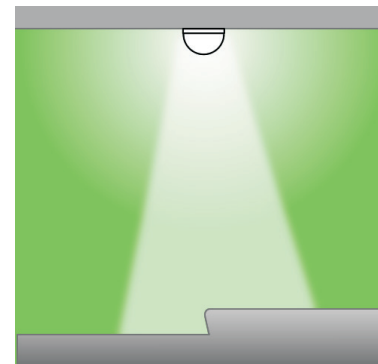
Maintained

The lighting operates normally and continues to operate when the normal mains supply fails (mains lighting and emergency lighting only).



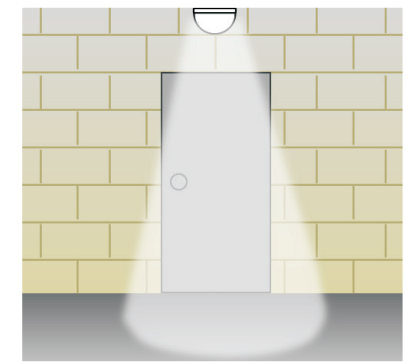
Near Stairs

Each tread should receive direct light from the installed emergency lighting luminaire(s) so that the minimum luminance on each stair tread is 1 Lux.



Near Level Changes

Steps or other changes of level should receive direct light from an emergency lighting luminaire.



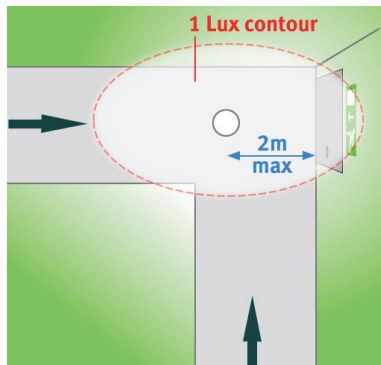
Outside & Near Exits

The escape route outside of the final exit(s) to a place of safety shall be illuminated.



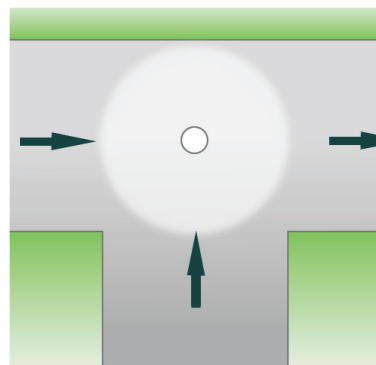
Near First Aid Points

This is a requirement included in BS 5266 part 7 1999, clause 4. All types of fire aid post including first aid rooms are to be illuminated to a level of 5 Lux.



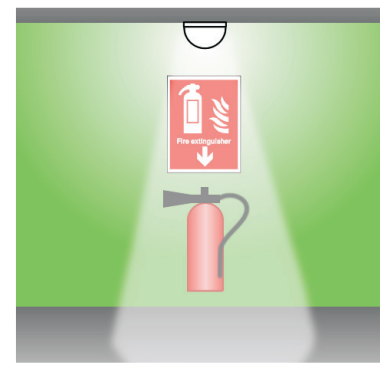
Exit Doors

Emergency lighting luminaires shall be installed (near) each exit door to provide appropriate illuminance near the door and at the threshold. However, to provide the 1 Lux on the centre line, the luminaire may need to be closer than the 2m suggested in the diagram.*



Change of Direction

Emergency lighting luminaires shall be installed near each change of direction as well as near each intersection of corridors on the designated escape route.*



Near Fire Equipment

Within 2 metres of all fire fighting and fire alarm call points an illuminance level of 5 Lux is required. This would also apply to a fire alarm control panel on an escape route.



Illuminates Safety Signs

Within 2 metres of all fire fighting and fire alarm call points an illuminance level of 5 Lux is required. This would also apply to a fire alarm control panel on an escape route.

**Interpretation: Where a point of emphasis requires a luminaire to be "at", this is not always practical, because, for example, there might be another fitment already at the same point. The luminaire would then be placed at a suitable position no further than 2m from the point of emphasis. Remember the 1 Lux along the centre line of escape route corridors and stairways should be designed. Where a point of emphasis requires a luminaire to be "near", this is stated as within 2m horizontally, as seen on a plan. Further information available in our Guide to BS5266 booklet.*

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