



Emergency lighting portfolio

Indoor

Emergency Lighting Legislation

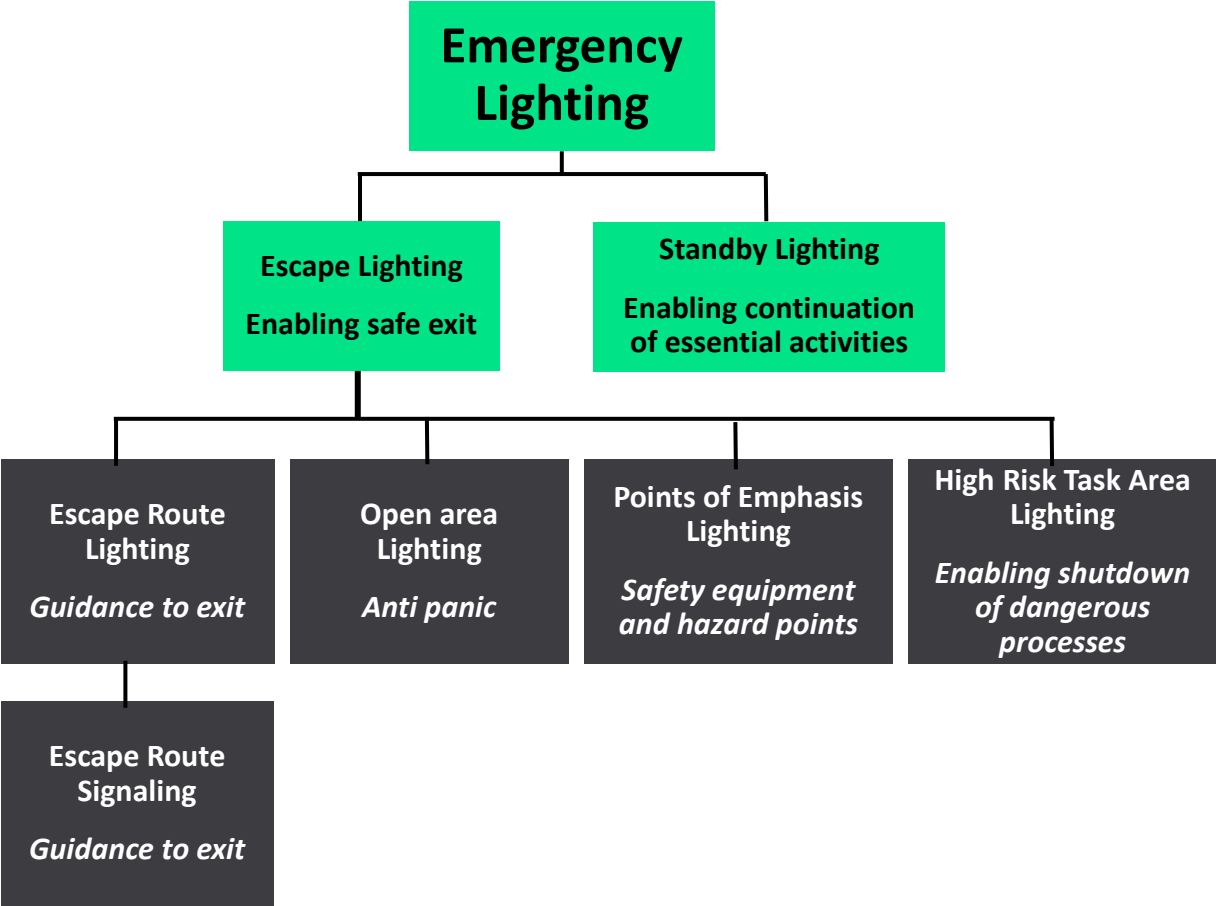
This standard contains the lighting technology requirements that emergency lighting in buildings must comply with.

The standard should be read in connection with the most recent Building Decree and the Working Conditions Act.

Where these regulations require emergency lighting, **EN 1838 sets concrete and clear requirements on the conditions and responsibilities in the design** of an emergency lighting installation.

Legislation (legal requirement)	National fire safety legislation		
Harmonised EU Application standards (shall)	EN 50172 Emergency escape systems	EN 1838 Lighting applications, emergency lighting	
Harmonised EU Protected standards (shall)	EN 60598-2-22 Luminaires for emergency lighting	EN 60235 Automatic test systems	EN 50172 Central power supply systems

Different categories of emergency lighting and *the objective*



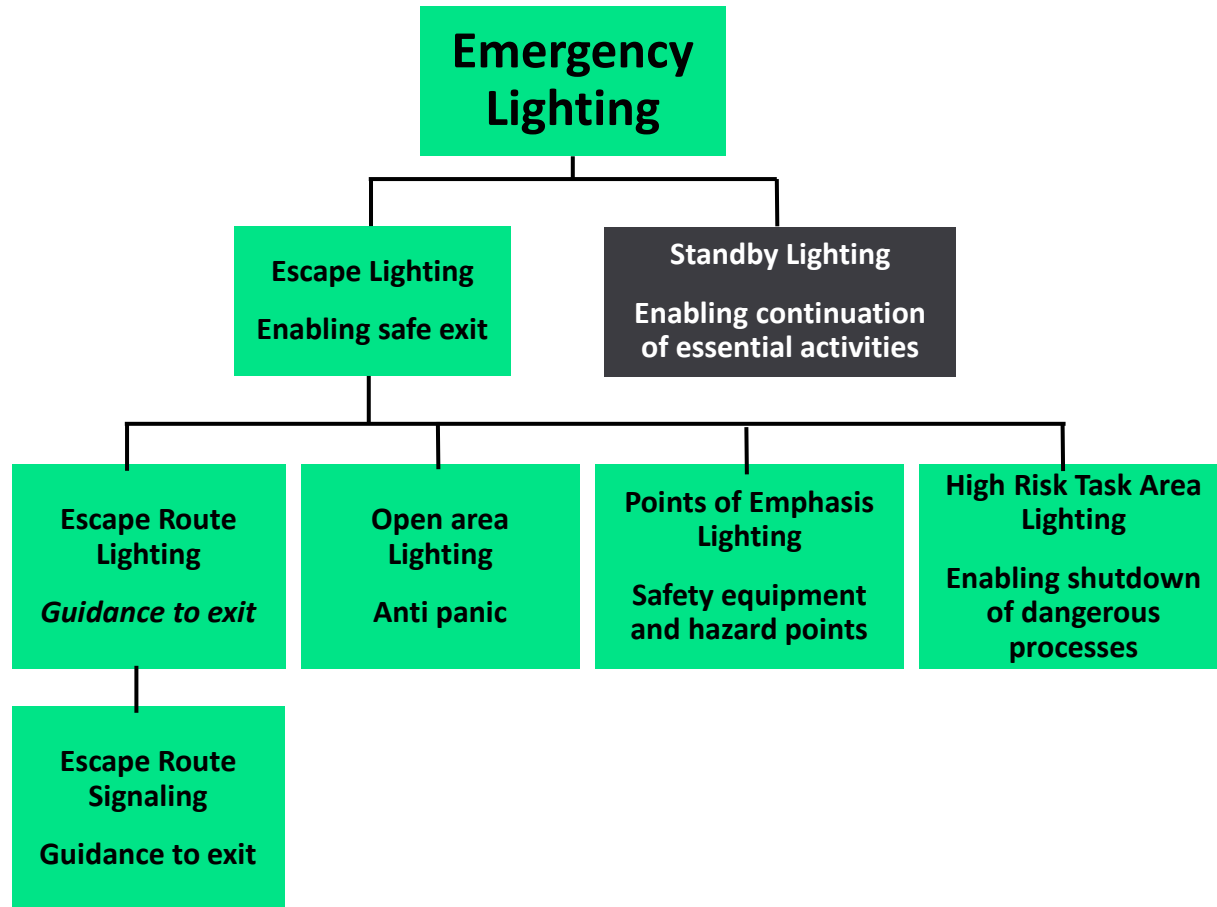
Emergency Lighting

Emergency lighting comprises lighting that facilitates the evacuation of a building in an emergency, as well as standby lighting enabling the continuation of activities of vital importance during a power failure.

To facilitate evacuation, persons should be able to orientate themselves in their environment, to locate an escape route which is indicated with discernible signs and safely follow that escape route to the exit.

In this training we cover the different elements and requirements for each application area.

Different categories of emergency lighting and *the objective*

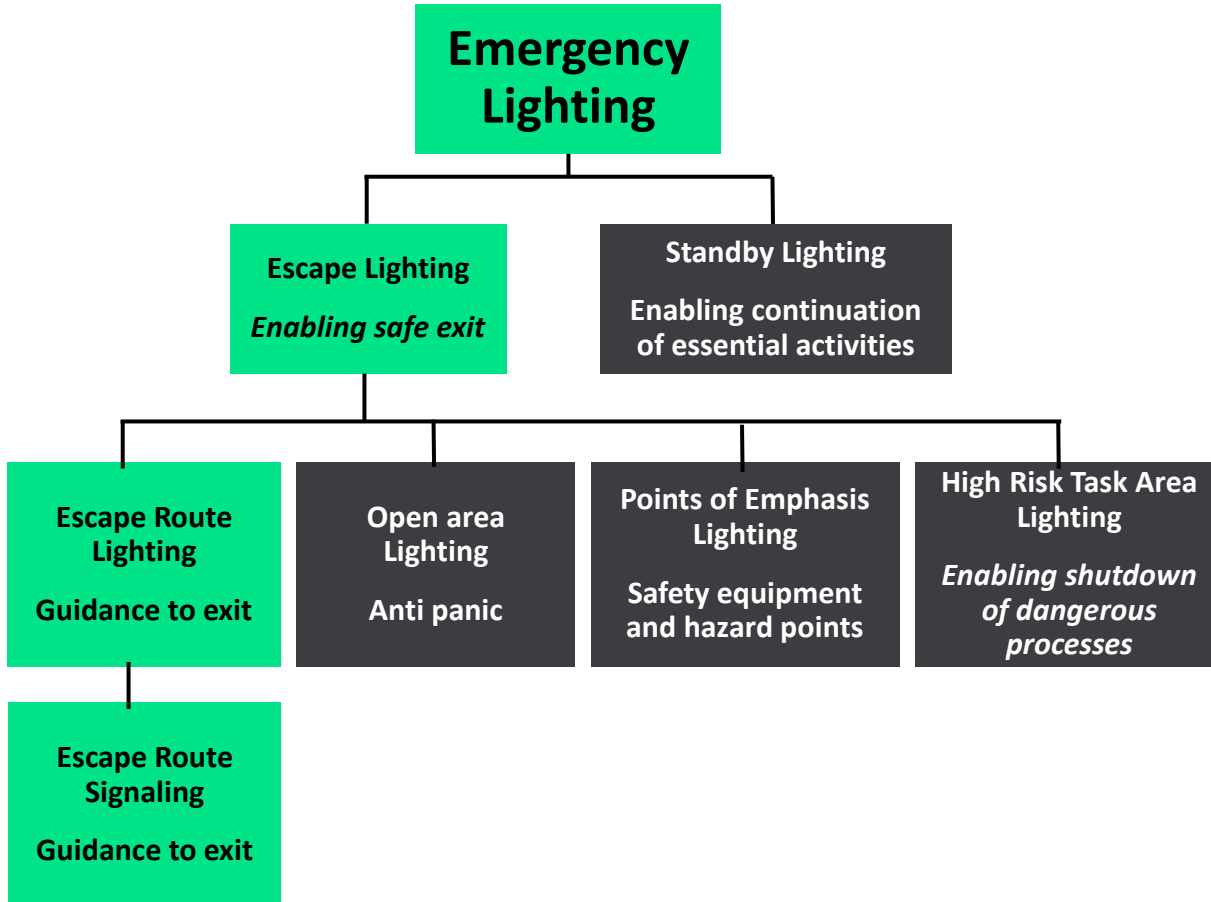


Escape Route

Escape lighting can be subdivided into escape-route lighting, enabling a safe exit, anti-panic open-area lighting, lighting of points of emphasis such as places with safety equipment, and high-risk task area lighting enabling the shutdown of dangerous processes.

Escape route signs, are designed to show the way to the nearest exit during an emergency. These are usually indicated by green icons with a running figure and an arrow on it, located on rectangular, official emergency lighting fixtures.

Different categories of emergency lighting and the objective



Escape route Lighting

The emergency plan designated escape routes, marked with safety signs using pictograms and colors, should have lighting that identifies the escape route and enables the safe use of it.

For this purpose, the center line of the escape route should have illuminance values at floor level, along each point of the line, of at least 1 lux.

Safety signs used for guidance in an emergency should have internal or external lighting that makes them prominent and legible from appropriate distances.

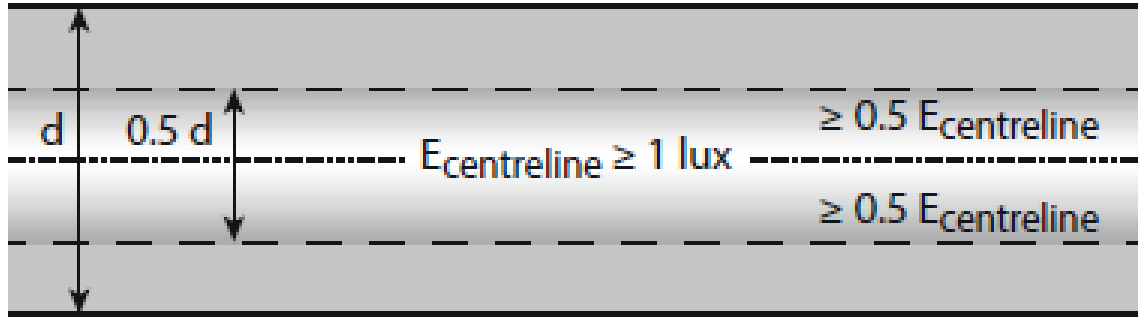
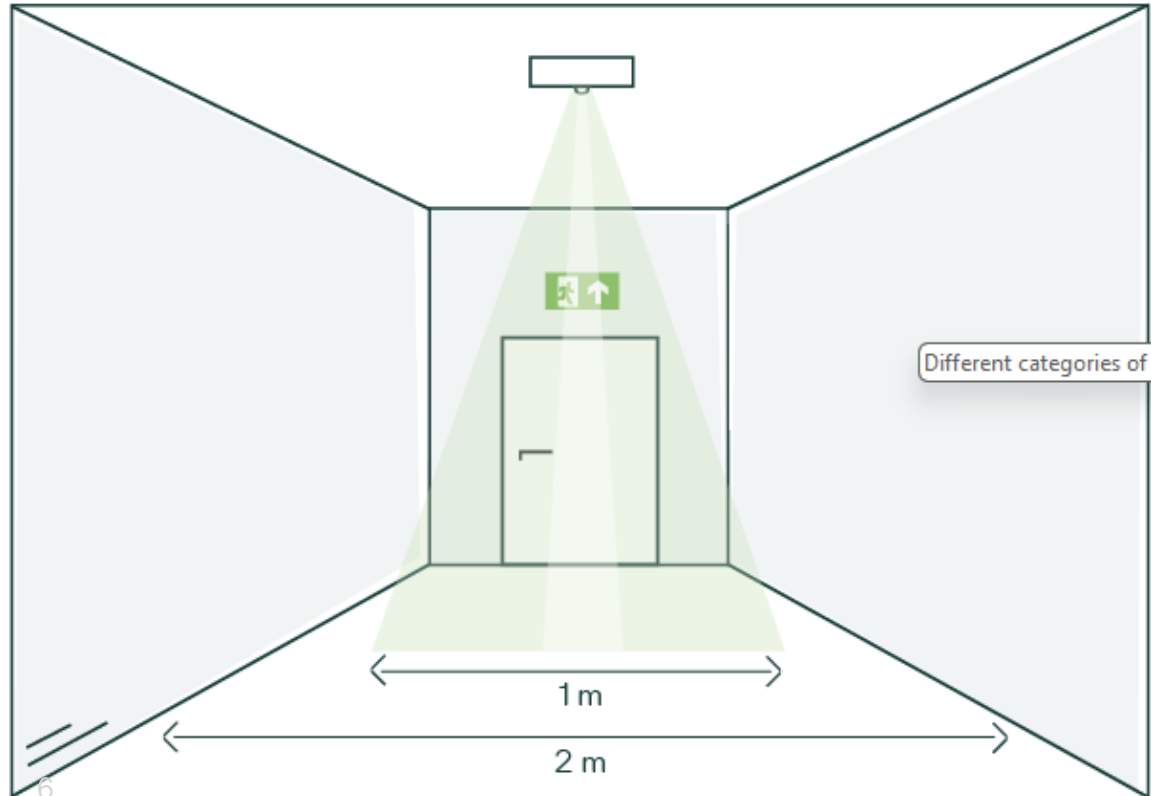


Fig. 1



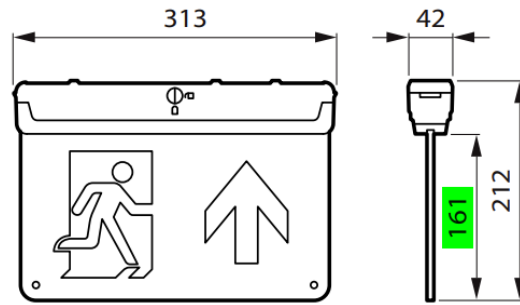
Escape route Lighting

For escape routes up to 2 m in width, a band centered around that central line, consisting of at least half the width of the escape route, must have at all points at least an illuminance of 50% of the illuminance value provided on the central line (Fig. 1).

Broader escape routes can be treated of 2 m wide strips or as anti-panic open areas.

Features

- 3 hours emergency lighting
- Manual and Self-Test options
- Up to 30 m viewing distance
- Maintained / Non- Maintained Emergency lighting
- Recessed kit and Suspension kits available as accessories



Escape route Signing

We focus on safety signs that are illuminated from the inside.

Viewing distance

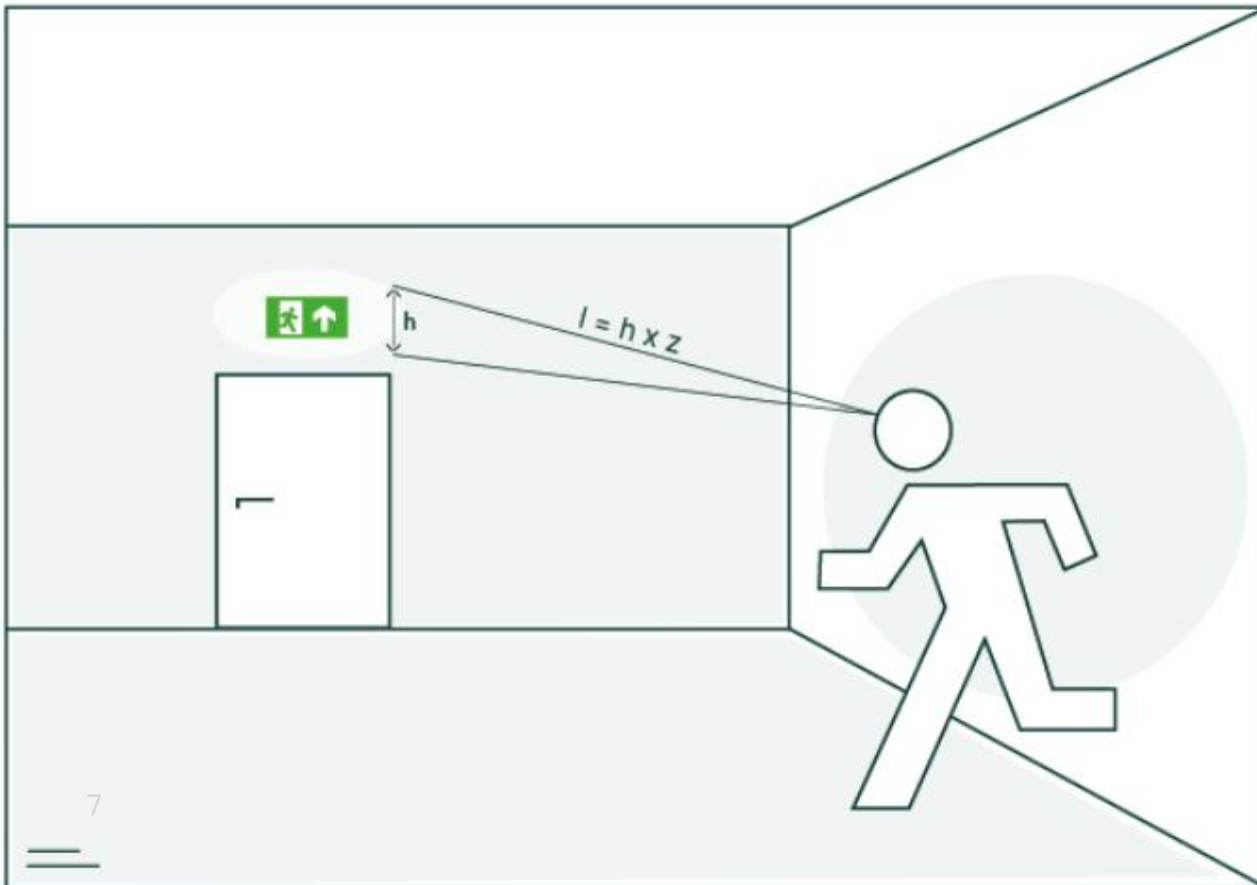
The maximum viewing distance of the safety sign is the largest distance from which it is still legible and recognizable.

The viewing distance is calculated as $l = h \times z$, where l is the distance of observation, h is the height of the sign and z is the distance factor (z is 200 for internally illuminated signs).

$$l = h \times z$$

$$l = 161 \times 200$$

$$l = \underline{32,2 \text{ m}}$$



Escape route Signing

When we are placing exit sign luminaires during the lighting design process, the distance between the luminaires should never exceed the viewing distance of the luminaires we are using for this purpose.

FAQ "At what height should emergency safety signs be mounted?"

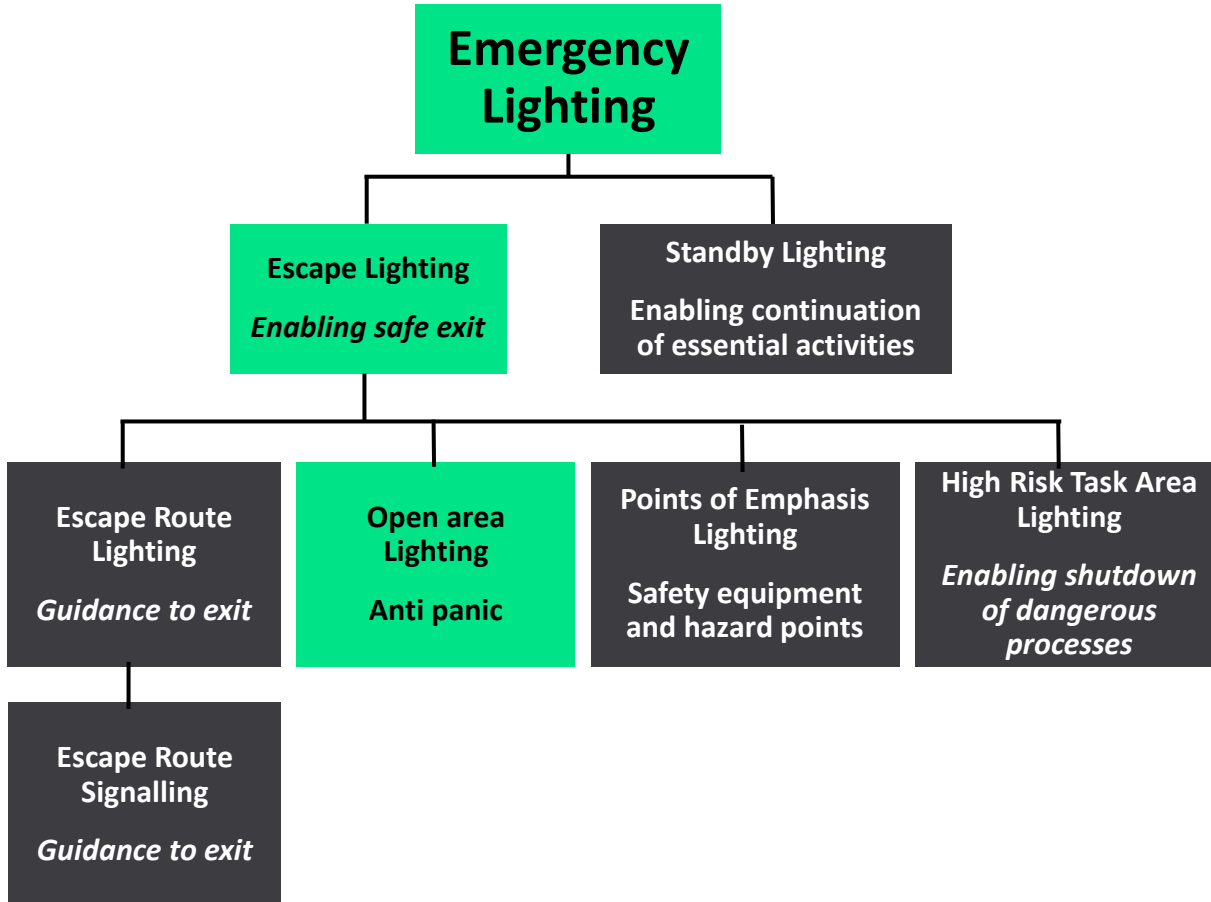
The first limitation is that these luminaires may **not be mounted any lower than at two meters.**

The second limitation is that they may not be mounted any higher than at twenty degrees above the horizontal view.

This translates to one point that's located **12 meters above the floor.**



Different categories of emergency lighting and the objective



Open Area Lighting

Open-area lighting is also referred to as anti-panic lighting.

The objective, apart from helping to **avoid panic**, is to facilitate reaching a place from where an escape route can be easily found.

From the perspective of the applicable emergency lighting standard, an open area is defined as a space with a floor area **exceeding 60 m²**.



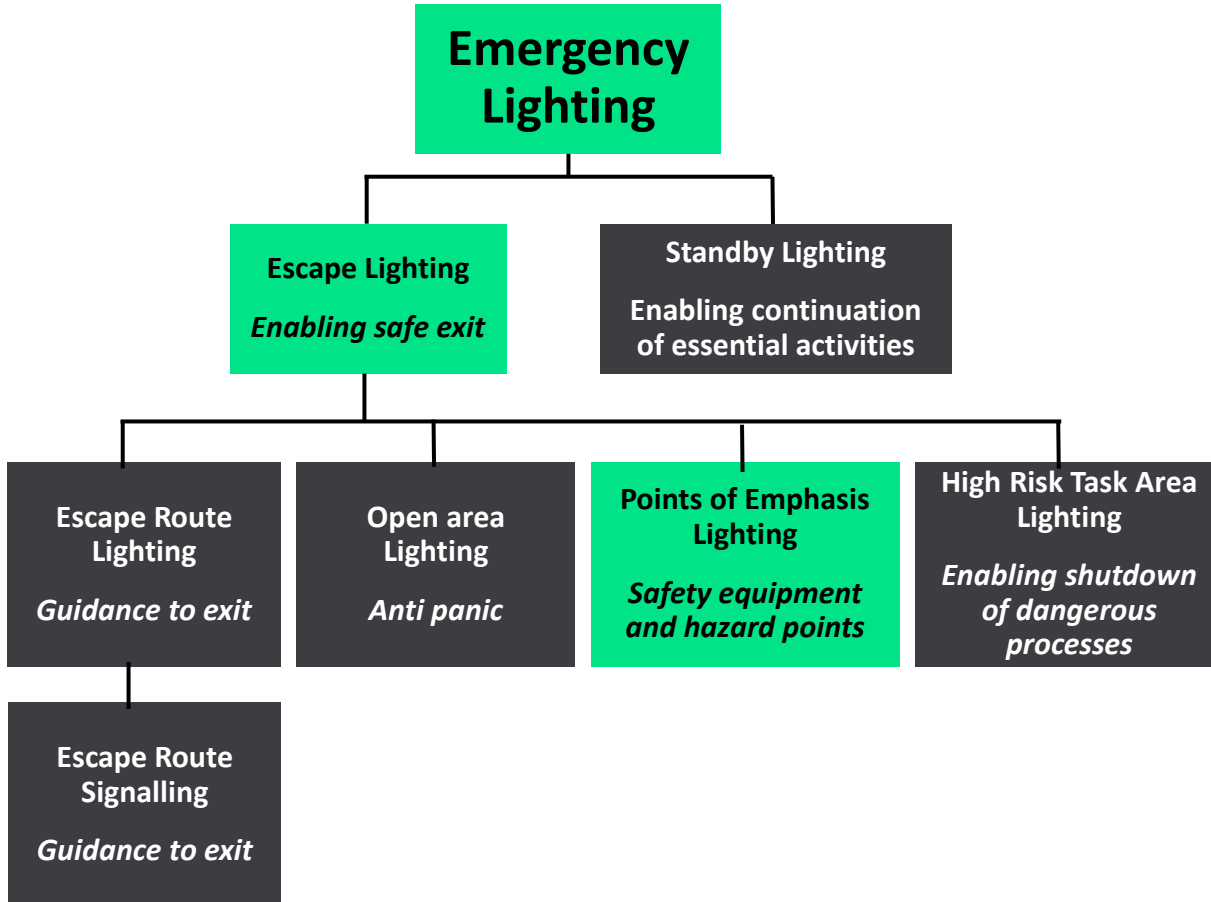
Open Area Lighting

The horizontal illuminance at floor level must **at least be 0.5 lux**, and the diversity (E_{min}/E_{max}) should be better than 1/40.

Disability glare should be limited just as specified for the escape-route lighting.

Also, the start-up time, duration and color-rendering index of the light sources should be the same as for the escape-route lighting.

Different categories of emergency lighting and the objective



Points of emphasis

Points of emphasis are points where an escape-lighting luminaire must be placed (less than 2 m from the point). If relevant, such a luminaire can be part of the escape route or anti-panic open-area lighting. The most critical points of emphasis are:

- Exit doors intended for use in an emergency
- Each flight of stairs or any other change in level
- Each change of direction and intersection of corridors
- First-aid posts, call points and points with escape equipment for the disabled; first-aid boxes and fire-fighting equipment must have emergency lighting providing a vertical illuminance of at least 5 lux
- Disabled refugee points
- Safety signs that are part of the emergency plan
- Outside the final exit at a place of safety

Different categories of emergency lighting and the objective

Emergency Lighting

Escape Lighting
Enabling safe exit

Standby Lighting
Enabling continuation
of essential activities

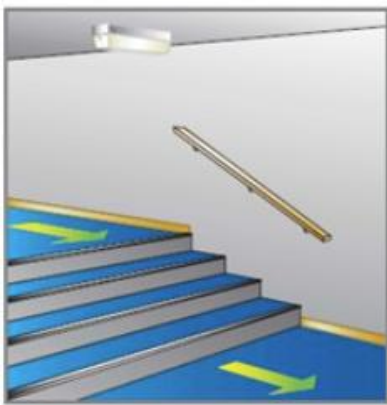
Escape Route Lighting
Guidance to exit

Open area Lighting
Anti panic

Points of Emphasis Lighting
*Safety equipment
and hazard points*

High Risk Task Area Lighting
*Enabling shutdown
of dangerous
processes*

Escape Route Signalling
Guidance to exit



NEAR STAIRS



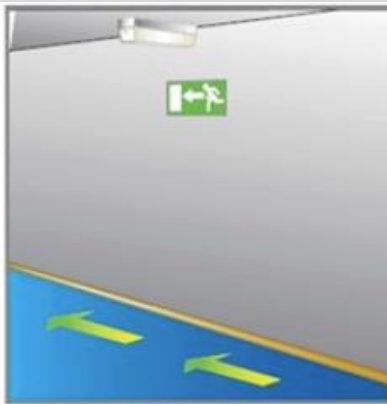
AT CHANGE OF DIRECTION



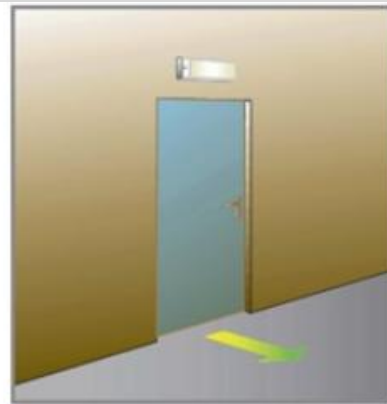
NEAR FIRST AID POST



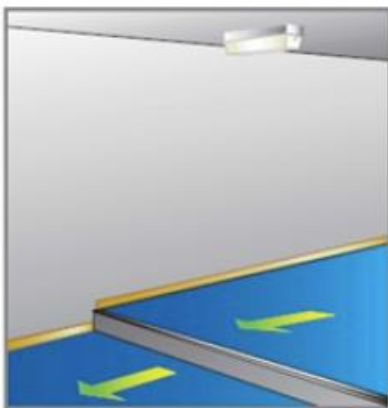
AT EACH DOOR



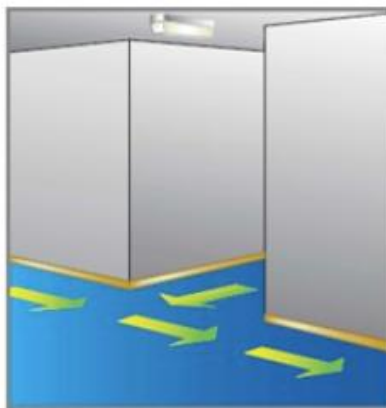
ALL SAFETY EXIT SIGNS



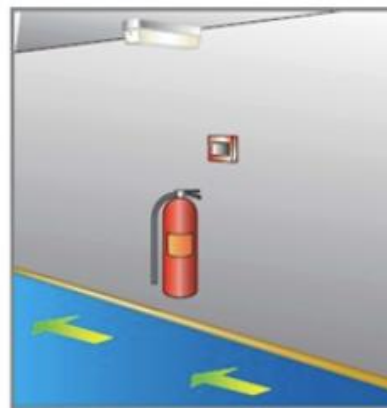
OUTSIDE AND NEAR
EACH FINAL EXIT



CHANGE OF FLOOR LEVEL

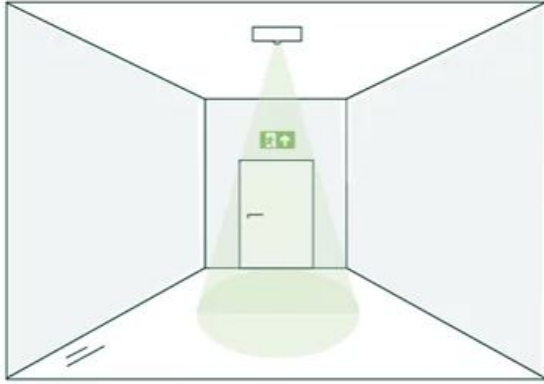


CORRIDOR INTERSECTION

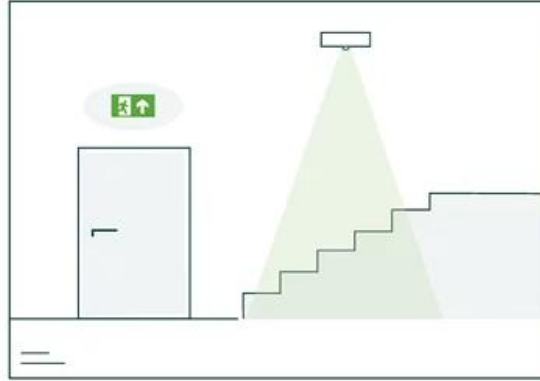


NEAR FIRE FIGHTING
EQUIPMENT AND CALL POINTS

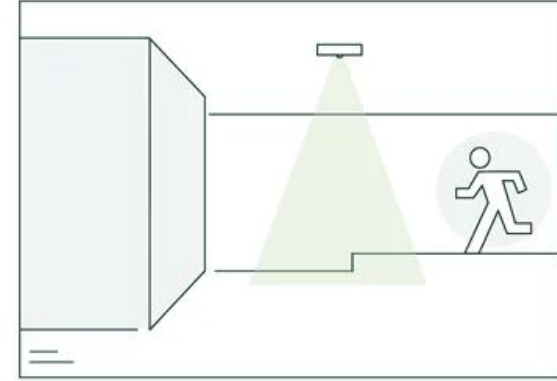
Points of emphasis



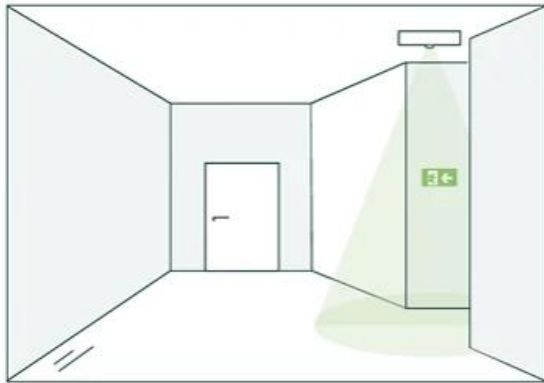
near each exit door intended to be used in an emergency



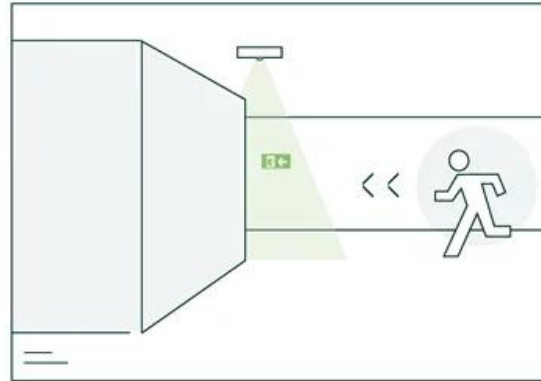
near stairs, so that each flight of stairs receives direct light



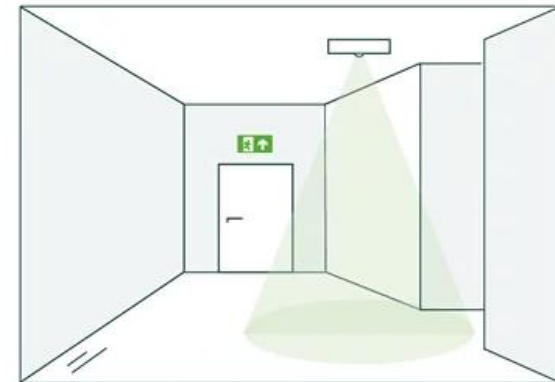
near any other change in level



externally illuminated escape route safety signs, escape route direction signs and other safety signs that need to be illuminated under emergency lighting conditions

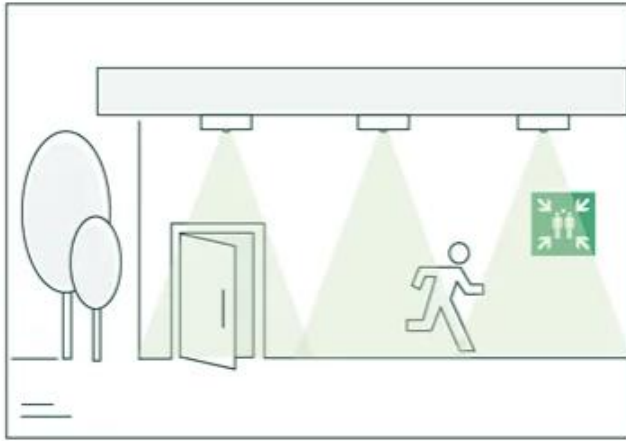


at each change of direction

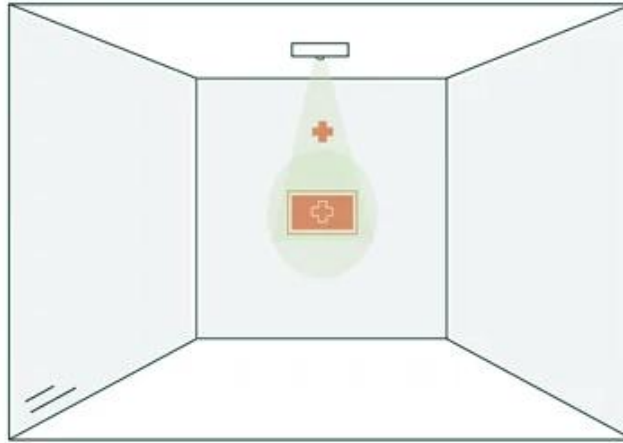


at each intersection of corridors

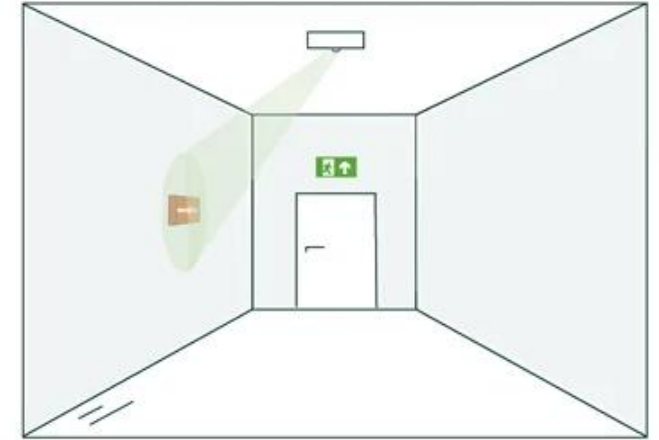
Points of emphasis



near each final exit and outside the building leading up to a safe place



near each first aid post, so that 5 lx vertical illuminance shall be provided at the first aid box

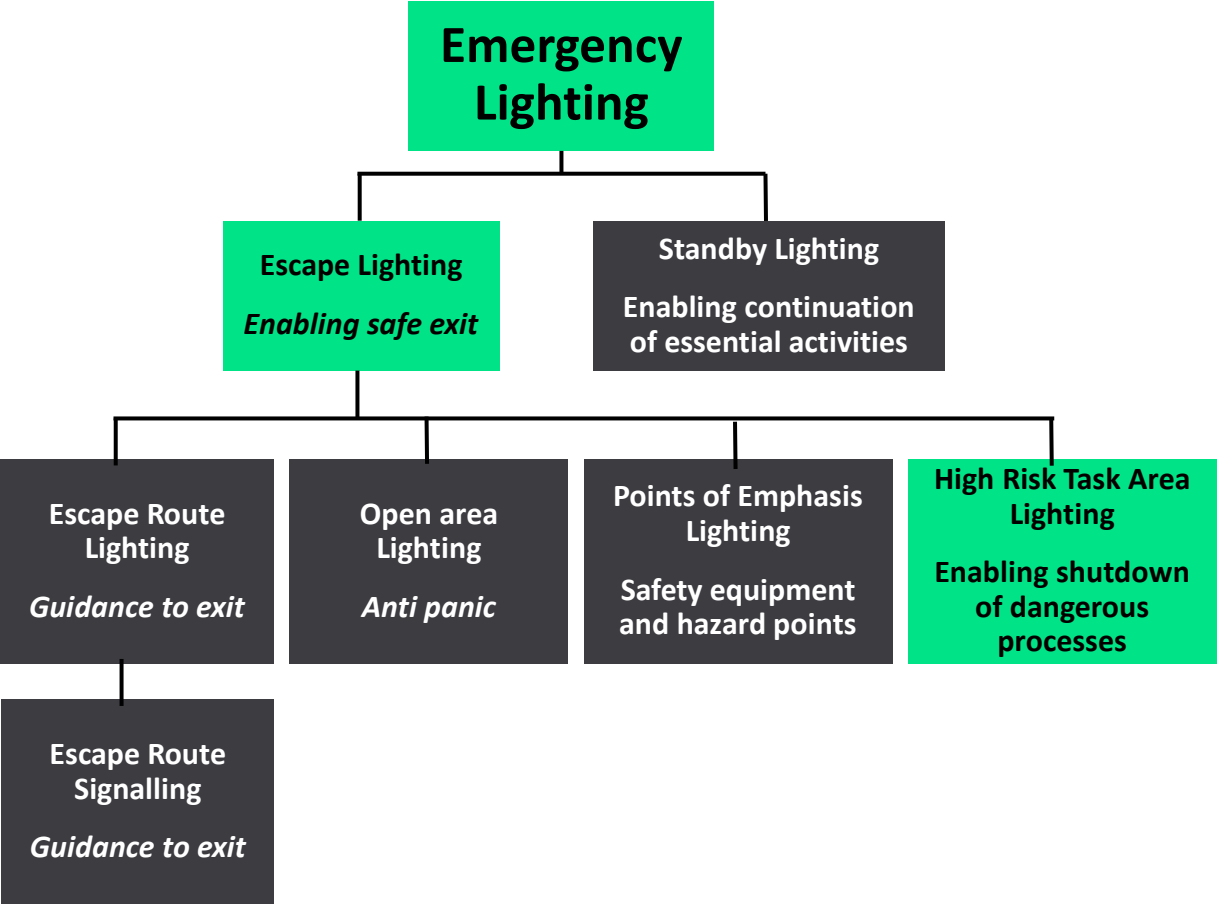


near each piece of firefighting equipment and call point, so that 5 lx vertical illuminance shall be provided at the fire alarm call points, firefighting equipment and panel

NOTE 1: For the purpose of this clause, “near” is normally considered to be within 2 m measured horizontally.

NOTE 2: For the point ‘change of direction’ and ‘each intersection of corridors’ “at” means that the emergency luminaire would cast light in both directions at the change of direction or at an intersection.

Different categories of emergency lighting and the objective



High-risk task areas

Important emergency lighting design principles to remember about for high-risk task areas:

- familiarity with the facility and the escape routes depending on the task and the people who occupy the premises
- the duration time that is dependent on the task
- selecting lighting equipment that will ensure an activation time no longer than 0.5 s after the power failure
- the fact that the specific lighting requirements may be described by industry standards or associated with the performance of specific activities.

Emergency lighting requirements:					
Type of emergency lighting task / activity area	Illuminance level (E_{min}) / Luminance level (L_{min})	Diversity ratio (U_d)	Area	Duration	Time until 50% / 100% illuminance is achieved
High-risk task area lighting	10% of the general lighting, no less than 15 lx	0.1	On the task area plane	As required for the task	5 s



Emergency Lighting - Ideal Portfolio for project Business

Portfolio of ~6- to 8 base types with various configuration options and designs variations to meet local legislation / tender requirements

Emergency conversion kits as accessory to upgrade trade luminaires in the field

Connected Emergency

Central Battery System

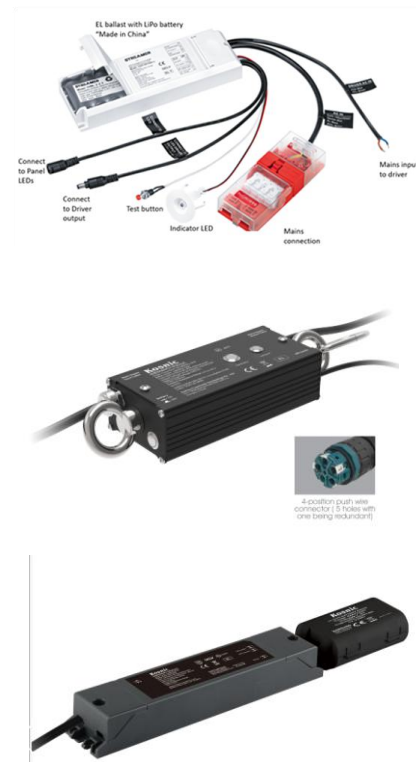
Emergency Luminaires



Exit signs with set of accessories



Emergency conversion kits



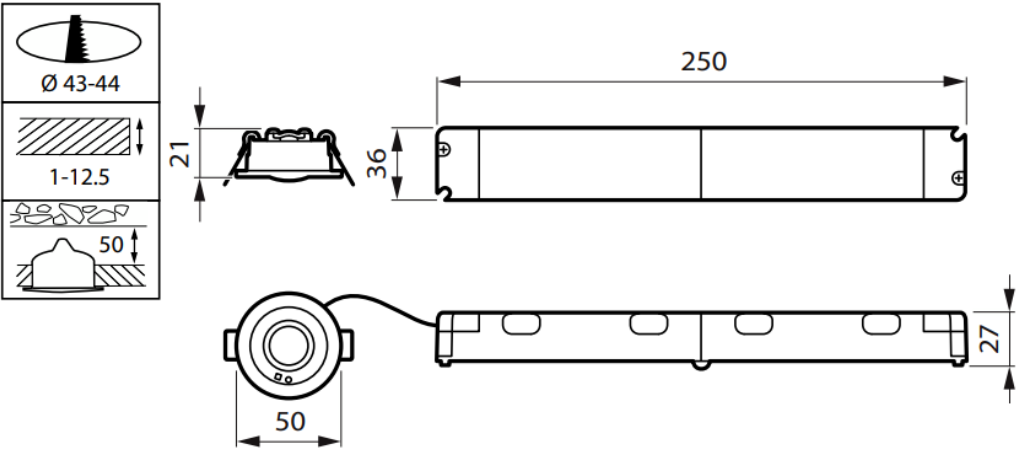
Central Battery Systems



EMERGENCY SPOT EM150B

Philips süllyesztett vészvilágító spot, 2 W,
Ø50 mm, H21mm, 135 lm, 6500 K, IP20, ELP3h

Ordering code	Type designation	Testing function
912401483504	EM150B REC 1S OA/CO NM3 ELP WH IP20	ST = self-test
Luminous Flux	135 lm	
Correlated Color Temperature	6500 K	
Color rendering index (CRI)	80	
Optic type	Open area or corridor optic	
Luminaire light beam spread	165° - 160° x 50°	
Emergency duration	3 hours	
Function	Non-Maintained	
Battery	LiFePO4 3.2V 1.2Ah	
Input Voltage	220-240 V	
Line Frequency	50 Hz	
Power Consumption	2 W	
Cable	0.2 meter cable (H03VVH2-F)	
Housing Material	Polycarbonate	
Optic material	Polycarbonate	
Optical cover material	UV stabilized Polycarbonate cover	
Housing Color	White RAL9003	
Optical cover finish	Clear	
Dimensions (H x W x D)	27 x 36 x 250 mm	
Overall diameter	50 mm	
Effective projected area	6 m²	

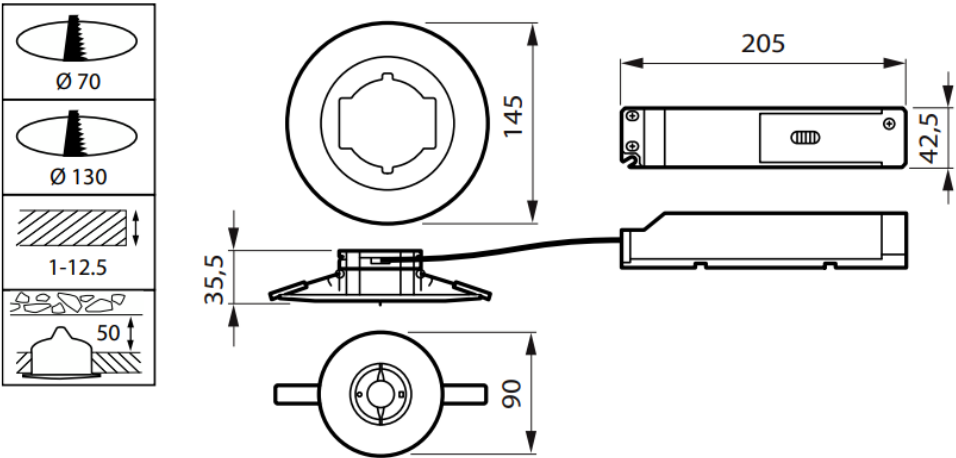


EMERGENCY DOWNLIGHT EM151B

Philips süllyesztett vészvilágító mélysugárzó, 3 W, Ø95 mm, H36 mm, 328 lm, 6500 K, IP20, ELP3h

Ordering code	Type designation	Testing function
912401483506	EM151B REC 3S OA/CO NM3 ELP WH IP20	ST = self-test

Luminous Flux	328 lm
Correlated Color Temperature	6500 K
Color rendering index (CRI)	80
Optic type	Open area or corridor optic
Luminaire light beam spread	165° - 160° x 50°
Emergency duration	3 hours
Function	Non-Maintained
Battery	LiFePO4 3.2V 3.0Ah
IP rating	IP20
Input Voltage	220-240 V
Line Frequency	50 Hz
Power Consumption	3 W
Cable	0.2 meter cable (H03VVH2-F)
Housing Material	Polycarbonate
Optic material	Polycarbonate
Optical cover material	UV stabilized Polycarbonate cover
Housing Color	White RAL9003
Optical cover finish	Clear
Dimensions (H x W x D)	33 x 43 x 205 mm
Overall diameter	95 mm
Effective projected area	14 m²

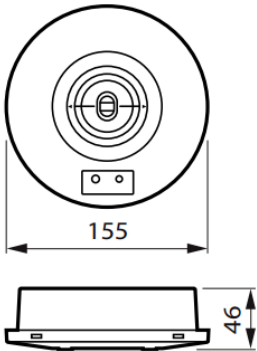
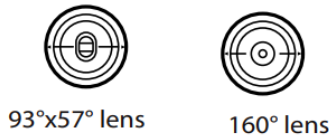


SURFACE MOUNTED DOWNLIGHT EM152C

Philips felületre szerelt vészvilágítási mélysugárzó, 2 W, D155mm, H46 mm, 273 lm, 6500 K, IP65, ELP3h

Ordering code	Type designation	Testing function
912401483507	EM152C SM 2S OA/CO NM3 ELP WH IP65	ST = self-test

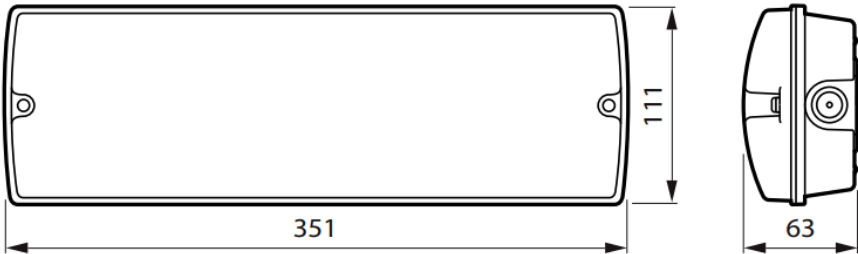
Luminous Flux	273 lm
Correlated Color Temperature	6500 K
Color rendering index (CRI)	80
Optic type	Open area or corridor optic
Luminaire light beam spread	150° - 80° x 30°
Emergency duration	3 hours
Function	Non-Maintained
Battery	LiFePO4 3.2V 3.0Ah
IP rating	IP65
Input Voltage	220-240 V
Line Frequency	50 Hz
Power Consumption	2 W
Cable	0.2 meter cable (H03VVH2-F)
Housing Material	Polycarbonate
Optic material	Polycarbonate
Optical cover material	UV stabilized Polycarbonate cover
Housing Color	White RAL9003
Optical cover finish	Clear
Dimensions (H x W x D)	46 x 155 mm
Overall diameter	155 mm
Effective projected area	25 m²



SURFACE BULKHEAD EM153C

Philips Emergency Bulkhead, 4 W,
351x111 mm, H63 mm, 175 lm, 6500 K, IP65, ELP3h

Ordering code	Type designation	Testing function
912401483509	EM153C SM BKD EXIT SIGN M3 ELP IP65	ST = self-test
Luminous Flux	175 lm	
Correlated Color Temperature	6500 K	
Color rendering index (CRI)	80	
Luminaire light beam spread	120°	
Emergency duration	3 hours	
Function	Non-Maintained	
Battery	LiFePO4 6.4V 6.6Ah	
IP rating	IP65	
Input Voltage	220-240 V	
Line Frequency	50 Hz	
Power Consumption	4 W	
Connection	2 Push-in connector, 3-pole	
Housing Material	Polycarbonate	
Optic material	Polycarbonate	
Optical cover material	UV stabilized Polycarbonate cover	
Housing Color	White RAL9003	
Optical cover finish	Ribbed	
Dimensions (H x W x D)	63 x 111 x 351 mm	
Effective projected area	3 m²	

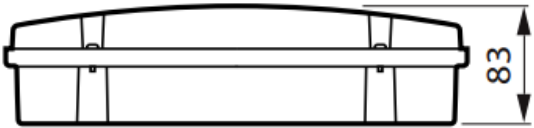
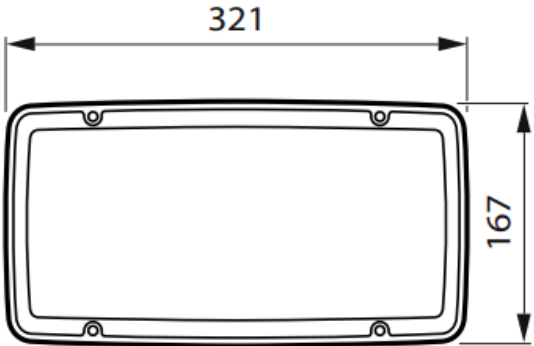


SURFACE BULKHEAD HO EM154C

Philips Vészvilágító lámpatest, High output, 10 W, 321x167 mm, H83 mm, 1587 lm, 6500 K, IP65, ELP3h

Ordering code	Type designation	Testing function
912401483511	EM154C HO BKD 15S NM3 ELP IP65	ST = self-test
910925871106	LL500E BA WH EM154C ELP	

Luminous Flux	1587 lm
Correlated Color Temperature	6500 K
Color rendering index (CRI)	80
Luminaire light beam spread	135°
Emergency duration	3 hours
Function	Non-Maintained
Battery	LiFePO4 6.4V 6.6Ah
IP rating	IP65
Input Voltage	220-240 V
Line Frequency	50 Hz
Power Consumption	10 W
Connection	2 Push-in connector, 3-pole
Housing Material	Polycarbonate
Optic material	Polycarbonate
Optical cover material	UV stabilized Polycarbonate cover
Housing Color	White RAL9003
Optical cover finish	Ribbed
Dimensions (H x W x D)	83 x 167 x321 mm
Effective projected area	24 m²



We developed a ready-to-use unit for installation on Maxos Fusion rail with the EL bulkhead EM154C luminaire.

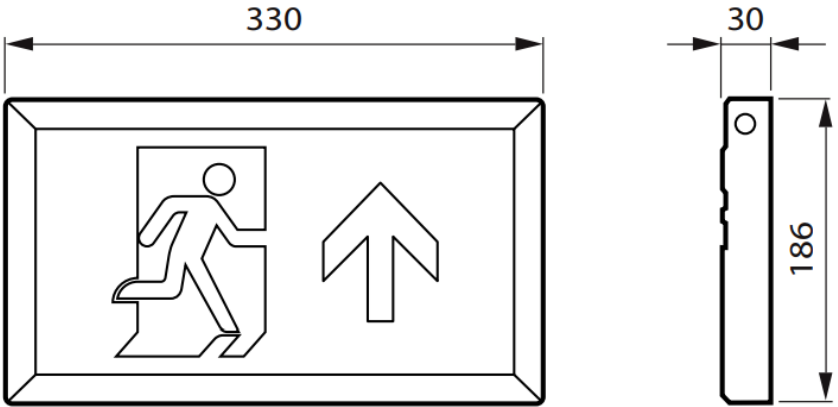
SLIM EXIT SIGN EM155C

Philips Illuminated emergency exit sign, 4 W, 330x186mm; H30 mm, 85 lm, 6500 K, IP20, ELP3h

Ordering code	Type designation	Testing function
912401483514	EM155C SLIM WL EXIT SIGN M3 ELP UP WH	ST = self-test
Luminous Flux	85 lm	
Correlated Color Temperature	6500 K	
Color rendering index (CRI)	80	
Luminaire light beam spread	55°	
Emergency duration	3 hours	
Viewing distance	30 m	
Function	Non-Maintained	
Battery	LiFePO4 3.2V 1.5Ah	
IP rating	IP20	
Input Voltage	220-240 V	
Line Frequency	50 Hz	
Power Consumption	4 W	
Connection	2 Push-in connector, 3-pole	
Housing Material	Polycarbonate	
Optic material	Polycarbonate	
Optical cover material	UV stabilized Polycarbonate cover	
Housing Color	White RAL9003	
Optical cover finish	Clear	
Dimensions (H x W x D)	30 x 186 x 330 mm	
Effective projected area	3 m²	



Legends



Legends to be ordered separately: Left Arrow, Right Arrow and Down Arrow

Ordering code	Type designation
912401483516	EM155Z SLIM WL EXIT SIGN LEGEND LEFT
912401483517	EM155Z SLIM WL EXIT SIGN LEGEND RIGHT
912401483518	EM155Z SLIM WL EXIT SIGN LEGEND DOWN

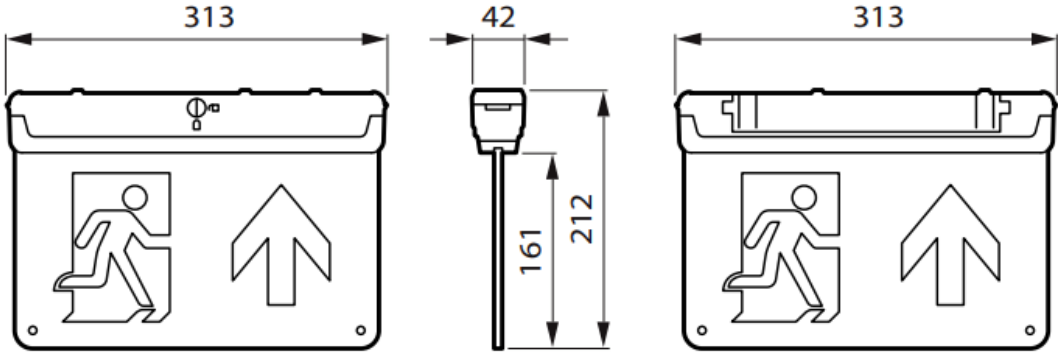
EMERGENCY EXIT SIGN EM159C

Philips Illuminated emergency exit sign, 3 W, 313x212mm; H42 mm, 23 lm, 6500 K, IP20, ELP3h

Ordering code	Type designation	Testing function
912401483519	EM159C WL/CM EXIT SIGN M3 ELP UP WH	ST = self-test
Luminous Flux	23 lm	
Correlated Color Temperature	6500 K	
Color rendering index (CRI)	80	
Luminaire light beam spread	235°	
Emergency duration	3 hours	
Viewing distance	30 m	
Function	Non-Maintained	
Battery	LiFePO4 3.2V 1.5Ah	
IP rating	IP20	
Input Voltage	220-240 V	
Line Frequency	50 Hz	
Power Consumption	3 W	
Connection	2 Push-in connector, 3-pole	
Housing Material	Polycarbonate	
Optic material	Polycarbonate	
Optical cover material	UV stabilized Polycarbonate cover	
Housing Color	White RAL9003	
Optical cover finish	Clear	
Dimensions (H x W x D)	42 x 212 x 313 mm	
Effective projected area	1 m²	



Legends



Legends to be ordered separately: Left/Right Arrow, Down Arrow, Firehose

Ordering code	Type designation
912401483521	EM159Z WL/CM EXIT SIGN LEGEND LEFT/RIGHT
912401483522	EM159Z WL/CM EXIT SIGN LEGEND DOWN
912401483548	EM159Z WL/CM EXIT SIGN LEGEND BLANK
912401483539	EM159Z WL/CM EXIT SIGN LEGEND FIREHOSE

Accessories to be ordered separately: Suspension kit, Recessed kit

Ordering code	Type designation
912401483523	EM159Z WL/CM RECESSED KIT
912401483524	EM159Z WL/CM SUSPENSION KIT



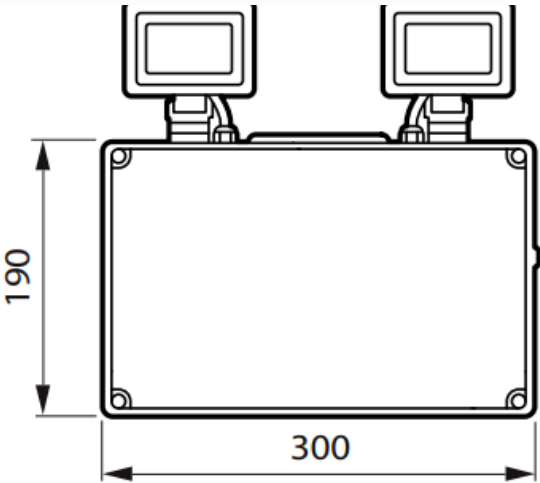
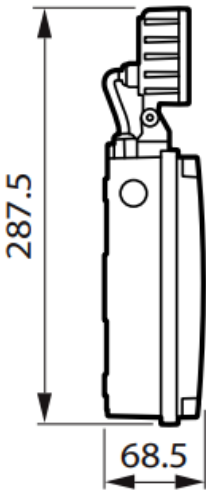
Suspension kit

Recessed kit

TWIN SPOT EM164C

Philips Vészvilágító iker spot, 9 W,
300x287.5mm; H68.5 mm, 1000 lm, 6500 K, IP65, ELB3h

Ordering code	Type designation	Testing function
912401483513	EM164C SM TWIN SPOT NM3 ELB IP65	MT = manual test
Luminous Flux	1140 lm	
Correlated Color Temperature	6500 K	
Color rendering index (CRI)	80	
Luminaire light beam spread	120°	
Emergency duration	3 hours	
Function	Non-Maintained	
Battery	LiFePO4 6.4V 3.3Ah	
IP rating	IP65	
Input Voltage	220-240 V	
Line Frequency	50 Hz	
Power Consumption	9 W	
Connection	2 Push-in connector, 3-pole	
Housing Material	Polycarbonate	
Optic material	Polycarbonate	
Optical cover material	UV stabilized Polycarbonate cover	
Housing Color	White RAL9003	
Optical cover finish	Clear	
Dimensions (H x W x D)	69 x 288 x 300 mm	
Effective projected area	16 m²	





Emergency Lighting Kits

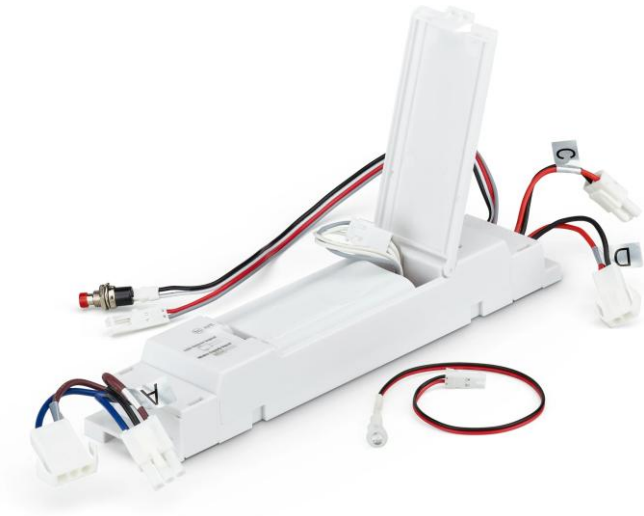
Indoor

EM300V

Emergency Lighting Kits

A compact selection guide for CoreLine indoor luminaires that need emergency lighting readiness.

Use the luminaire family as the starting point, then match the correct EM300V kit and verify the impact on emergency output, IK rating and IP rating.



All new luminaire generations are compatible with emergency kits according to the table below.
ELB/ELP is not mentioned in the product description.

3 h Emergency duration target	EM300V Kit platform	LFP / LIB Battery technologies	IK03 Panel G6 eligibility check	IP check Confirm final rating
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Application

- + Emergency lighting support for selected CoreLine indoor families.
- + Quick selection for project quotation and portfolio conversations.
- + Check final rating before positioning the solution for demanding applications.

At a glance

- + Dedicated kit references for LV LIB and HV LFP configurations.
- + DN145B emergency lumen output reference: approximately 270-290 lm.
- + DN142B gen5 uses built-in ELP3 offer versions rather than a separate listed kit.
- + CoreLine panel G6 requires IK03 for emergency lighting compatibility.

Emergency kit selector

	PRODUCT FAMILY CoreLine waterproof G3 WT120C Waterproof luminaire family for robust indoor applications.		EMERGENCY KIT <u>912401483668</u> EM300V ELB_P3 kit HV 6.4V 2000mAh LFP V2
	PRODUCT FAMILY CoreLine slim downlight DN145B Emergency kit is ordered separately for compatible versions.		EMERGENCY KIT <u>912401483602</u> EM300V ELB_ELP3 kit LV 3.6V 4800mAh LIB
	PRODUCT FAMILY CoreLine wall mount WL140V All-in All-in wall-mounted family with emergency-ready direction.		EMERGENCY KIT <u>912401483603</u> EM300V ELB_ELP3 kit HV 6.4V 2000mAh LFP
	PRODUCT FAMILY CoreLine batten BN126C All-in No additional wiring-kit accessory is required where EL elements are already integrated.		EMERGENCY KIT <u>912401483603</u> EM300V ELB_ELP3 kit HV 6.4V 2000mAh LFP

Additional family coverage

	PRODUCT FAMILY CoreLine downlight gen5 DN142B Emergency versions are built into the DN142B offer structure.		EMERGENCY ROUTE Built-in ELP3 version No separate EL kit is listed in the current overview for this family.
	PRODUCT FAMILY CoreLine panel G6 - IK03 only Emergency lighting is only allowed on IK03 versions.		EMERGENCY KIT <u>912401483602</u> EM300V ELB_ ELP3 kit LV 3.6V 4800mAh LIB
	PRODUCT FAMILY CoreLine recessed G4 RC136B Listed RC136B G4 variants are suitable for the LV emergency kit direction.		EMERGENCY KIT <u>912401483602</u> EM300V ELB_ ELP3 kit LV 3.6V 4800mAh LIB

Advantages

- + One concise reference for the main CoreLine emergency kit routes.
- + Clear separation between add-on kits and built-in emergency versions.
- + Reduces selection errors between LV LIB and HV LFP kit types.
- + Supports faster customer discussions by showing product-family visuals.

Before ordering

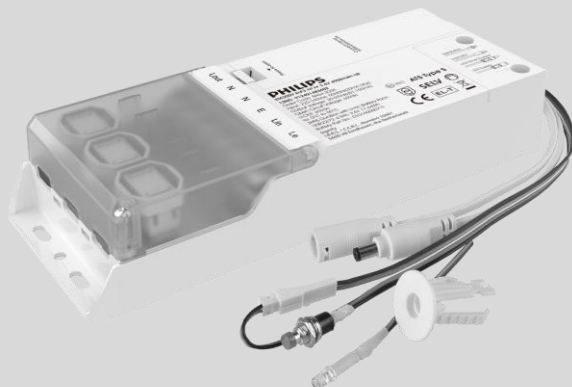
- + Confirm the exact luminaire 12NC and emergency-lighting requirement.
- + Check emergency lumen output against the project requirement.
- + Verify final IK and IP rating after emergency-kit installation.
- + Validate commercial availability before external release or quotation.

Low Voltage Emergency Lighting Kits

Low Voltage Kit

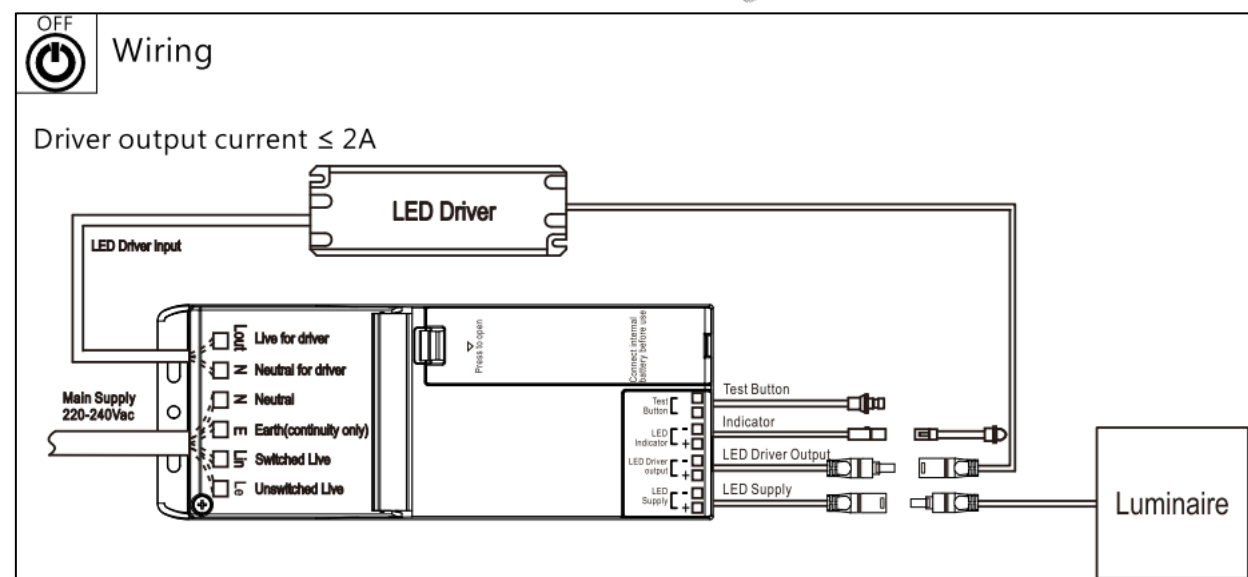
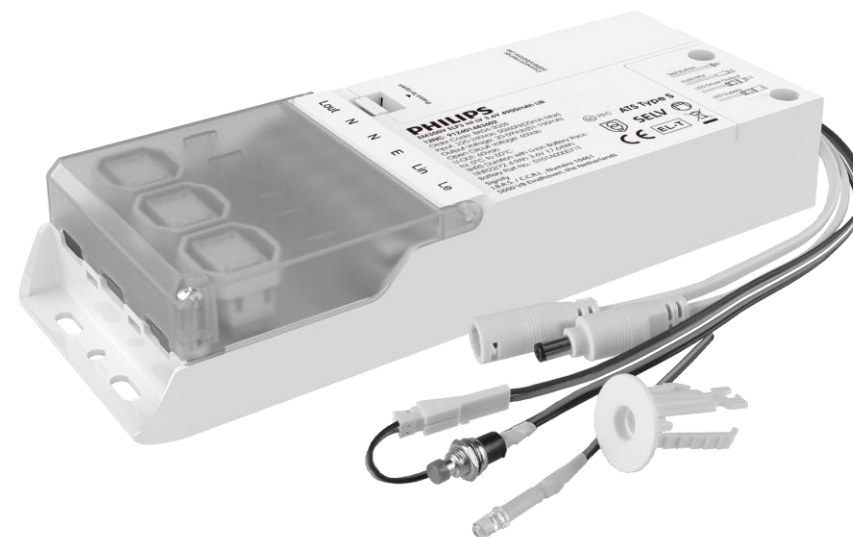
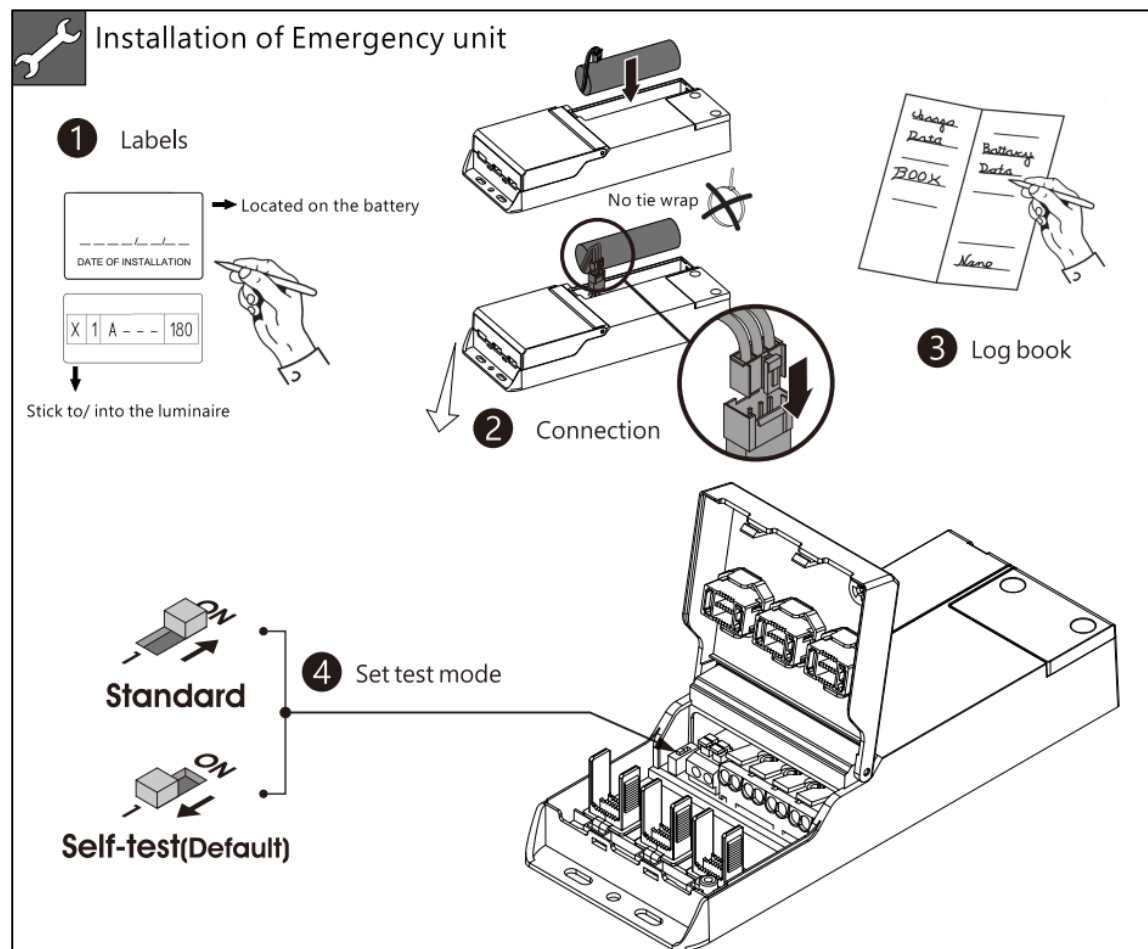
Standard and Self-Test 2 in 1
External Emergency Module for

- **Panels**
- **Downlights**



- **Standard and Self-Test mode** setting via an integrated **Signify DC Plug** (3rd party EL kits are not compatible)
- Wired between driver and LED module via DC plugs belong to the kit
- For luminaires with class III LED modules and separate LED drivers
- Replaceable internal Li-ion battery pack
- Over-charge, over-current, short-circuit and deep discharge protection for battery
- Bi-colored status LED Indicator
- **Independent/External**

Low Voltage Emergency Kit - Installation and Wiring



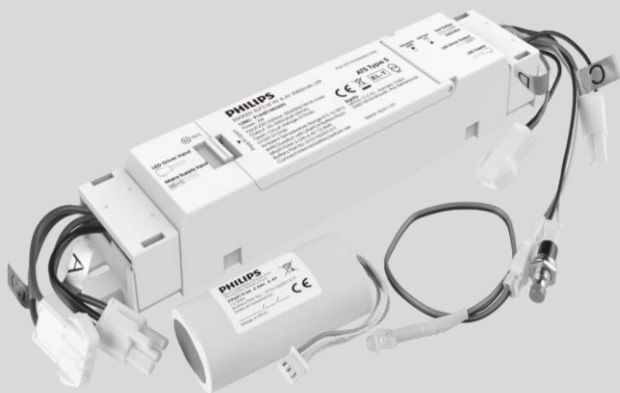
[Installation video – CoreLine Recessed](#)

High Voltage Battery Kits

High Voltage Kit

Standard and Self-Test 2 in 1
External Emergency Module for
LED Linear Luminaires:

- **Battens**
- **Waterproofs**
- **Wall-mounted**



- **Standard and Self-Test mode** setting via an integrated DIP switch
- Wired between driver and LED module via DIP switches on the kit
- Replaceable internal LiFePO4 battery pack (lithium iron phosphate)
- Over-charge, over-current, short-circuit and deep discharge protection for battery
- Bi-colored status LED Indicator
- For **built-in**

High Voltage Emergency Kit - Installation and Wiring (acc. to MI)

Optional

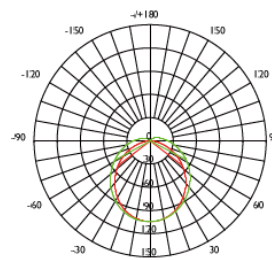
12NC **Description**
912401483603 EM300V ELB_ELP3 kit HV 6.4V 2000mAh LFP
Emergency pack is not provided.

1x



Products compatible with emergency lighting functionality.

12NC	Description	EOC	SKU
911401833984	BN126C LED41S/840 PSU L1200	871951494878599	108425717
911401834184	BN126C LED64S/840 PSU L1200	871951494880899	108425718
911401834584	BN126C LED52S/840 PSU L1500	871951494884699	108425719
911401834784	BN126C LED80S/840 PSU L1500	871951494886099	108425720
911401850087	BN126C LED80S/830_40 WIA L1500	872016976835299	108425709
911401850187	BN126C LED64S/830_40 WIA L1200	872016976836999	108425710
911401850287	BN126C LED64S/830_40 PSD L1200	872016976837699	108425711
911401850387	BN126C LED80S/830_40 PSD L1500	872016976838399	108425712
911401850587	BN126C LED25S_41S/830_40 PSU L1200	872016976840699	108425714
911401850687	BN126C LED35S_52S/830_40 PSU L1500	872016976841399	108425715

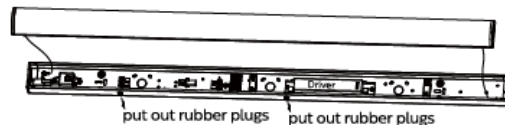


Rated lumen output in emergency mode: min 300lm

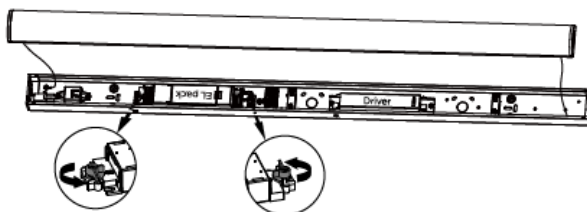
Can be assembled in the luminaires in table 1.
After installing emergency pack, customers shall ensure that the emergency light comply with IEC60598-2-22, and maximum ambient temperature shall be less than 30C.



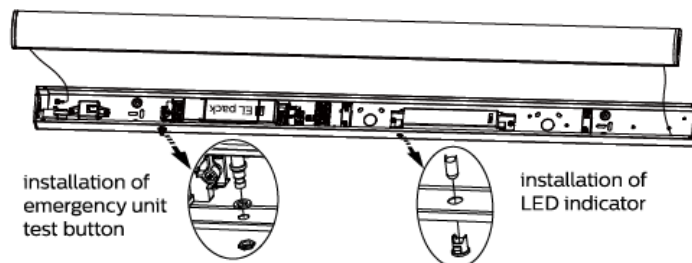
1. Ex-factory status, Remove the rubber plug from the housing.



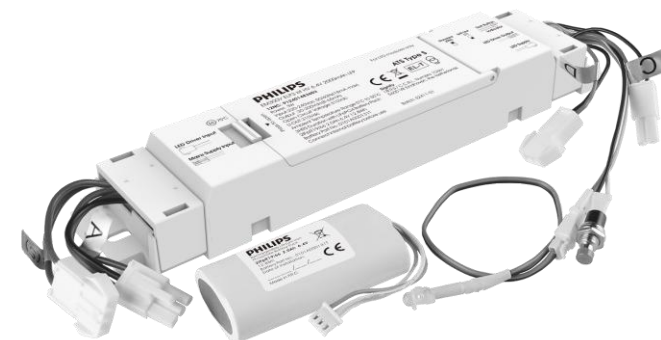
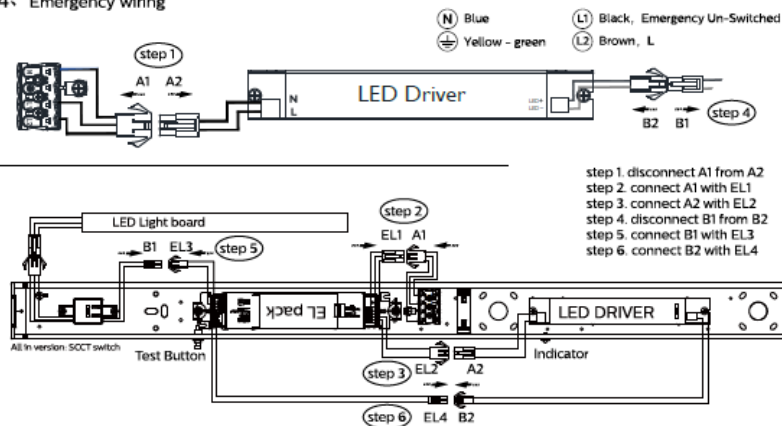
2. Install Emergency pack, not included.



3. Install Emergency button and indicator.



4. Emergency wiring



[Installation video – CoreLine Batten](#)

[Installation video – CoreLine Wall-mounted](#)

Technical specification of the Emergency Kits

	HV	LV
Battery part No	0101A000131T	0101A000071T
Emergency operation time	3 h	3 h
Input Voltage	220-240Vac	220-240Vac
Input Frequency	50/60Hz (16mA max)	50/60Hz (20mA max)
Input Wattage (max.)	3.5W @Rated Input Voltage & Battery full discharge	3.5W @Rated Input Voltage & Battery full discharge
Input Current (max.)	18mA @Rated Input Voltage & Battery full discharge	20mA @Rated Input Voltage & Battery full discharge
Input PF	0.75 @Rated Input Voltage & Battery full discharge	0.7 @Rated Input Voltage & Battery full discharge
Output Wattage (max.)	3W max.	4W max.
Output Voltage Range	30-300Vdc	20-59Vdc
Output Current Range	8-80mA	51-150mA
Open circuit Voltage (max.)	310Vdc	60Vdc
U-OUT	310Vdc	60Vdc
Ambient Temp range	0 °C to 50 °C	0 °C to 50 °C
Operating Humidity	<75% RH (Not Condensing)	<75% RH (Not Condensing)
Battery model / IEC designation	2IFpR19/66 2.0Ah 6.4V 12.6Wh	1INR22/72 4.9Ah 3.6V
Cell Type	LiFePO4 18650 3.2V 2	Li-ion 21700 3.6V 4900mAh
Configuration	2S1P	1S1P
Capacity	IFR18650-2000 2S1P	IFR21700-4900 1S1P
Connector	HX20020-3P	HX20020-3P
Battery wire length	75±5	75±5
Max. Storage Time	12 months at +5 °C to +25 °C	12 months at +5 °C to +25 °C

@signify