HS LIGHTS

save energy & protect environment

Emergency Lighting Product Catalog

Feb 2015

HS Lights Product of
HS Switchgear FZCO, JEBEL ALI FREE ZONE
DUBAI, U.A.E, P.O.BOX : 117209
Tel : +971 4 8886980, Fax : +971 4 8886014
Email : sales@hslights.ae, Web: www.hslights.ae

Self-Contained Emergency Light HSL-SCEL-01

Standards & Approvals

CE EN 60598-2-22 EN 60598-1 EN 1838 EN 55015 EN 61547 EN 000-3-2 EN 000-3-3 DIN 4844

Technical data

230V AC/DC · Classe I · ATS · 25m · 32m · LED · NI-CD · 1-3h · 2.5 mm² · IP 20 · 0°c/+45°c

- 50,000 hour life LED light source.
- Fully meets EN1838 and EN 60598-2-22.
- Auto self test.
- Audible and visual fault indication.(Sound Alarm and the flashing of the LED indicator).
- This fitting incorporates self test technology to automatically carry out regular testing of the Complete fitting, which saves effort and cost by avoiding the need to manually carry out the Mandatory testing of emergency luminaires luminaires.
- Suitable for: luxury offices, hospitals, restaurants and theaters.
- Connecting terminals 4 x 2,5 mm² for double assignment.

Technical specifications

Model	HSL-SCEL-01-25m	HSL-SCEL-01-32m
Case material	Metal	
Case color	White(RAL9003)	
Panel material	Acrylic glass	
Mains voltage	230VAC,50HZ 230VAC/DC Central battery *	
Wattage (AC)	4.5w	5.5w
Charging time	24 hrs	
Viewing distance	EN/DIN-25m	EN/DIN-32m/40m
Emergency duration	1-3 hrs	
SMD LED	12LEDs	15LEDs
Protection type	IP 20 / Class I	
Battery	NI-CD 4.8V 0.8 AH	NI-CD 4.8V 1.0 AH
Permissible temp	0˚c - 45˚c	

Legal Basis and Requirements

Self-contained Emergency light for universal mounting according to DIN EN 60598-1, DIN EN 60598-2-22 and EN 1838 for the marking of escape and rescue routes. For single or double sided labeling.

Safety instructions

CAUTION: Work on the 230 V power system must be carried out by authorised personnel only with due regard to the applicable installation regulations. Switch off the power supply before installing the system.

HSL-SCEL-01 LED

Test button Description

Test button	Green LED	Status mode
Not pressed	ON	Battery OK, Mains Operation, No fault, Charging
Pressed approx 1 sec	OFF	5 sec short-term emergency operation
Pressed approx 3 sec	Blinking	Function test,30 sec.Emergency operation
Pressed approx 5 sec	Flashing	3 h long-term operating test
Pressed again approx 5 sec		Long-term operating test aborted

Automatic test system

On emergency lights with automatic auto-testing, the electronics and bulb's operational readiness is checked automatically, as is the battery charging process.

20 h after applying mains voltage a function test is automatically run (items checked:switching and bulb, 30 sec. test).

After a further 4 h, an automatic 2 h long-term operating test is run If you press the test button for 5 sec. before the long-term operating test has ended, the long-term 2 h operating test is aborted.

Following the first long-term operating test, regardless of whether or not this was passed, the weekly cycle (function test of switching and bulb) and yearly cycle (long-term 2 h operating test) are automatically started.

Meaning of the indicator LED

HS LIGHTS save energy & protect environment

HSL-SCEL-01

Mains operation No fault	Operation duration Test failed
Blinking Function test	Blinking Lamp/changeover fault
Flashing Operation duration test	Flashing Battery/charging fault

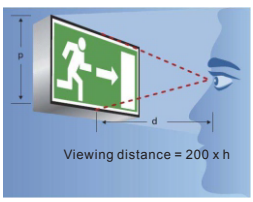
Mains failure+Emergency light operation

The status display can only be cleared after the fault has been rectified, mains voltage has been Reapplied and a function test has been run.

Viewing Distance Information

The relationship between the size of the sign and viewing distance to an observer is dened by EN 1838 and DIN 4844 . For a given legend height the maximum viewing distance is calculated by the formula:
Dmax = h x 200m (for internal illuminated signs)
D = viewing distance
H = pictorgram legend height

Legend size Width x Drop (millimetres)	Viewing Distance (metres)
250 x 125mm	25m
320 x 160mm	32m
320 x 200mm	40m

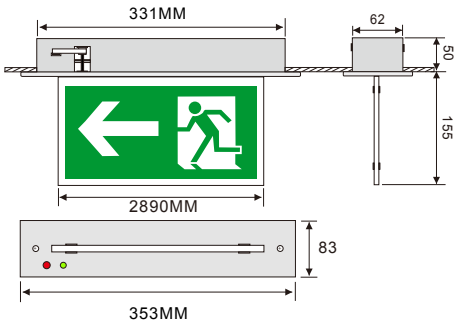


Customize colors

W

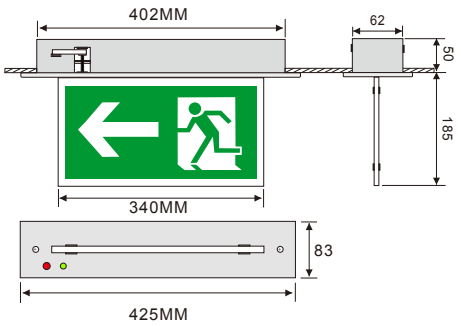
White RAL9003

E7-25m
Recessed ceiling mounted



335mm x 67mm

E7-32m/40m
Recessed ceiling mounted



406mm x 67mm

Pictograms

The pictograms have to be ordered separately

EN 1838/ DIN 4844 Single

Type 1

Type 2

Type 3

Type 4

Type 5

Type 6

Type 7

Type 8

Type 9

Type 10

Type 11

Type 12

Type 13

EN 1838/ DIN 4844 Double

Type 14

Type 15

Type 16

Type 17

Type 18

Type 19

Type 20

Type 21

Type C00[1]

Type 39

Type 40

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Self-Contained Emergency Light HSL-SCEL-02

Standards & Approvals

CE | EN 60598-2-22 | EN 60598-1 | EN 1838 | EN 55015 | EN 61547 | EN 61000-3-2 | EN 61000-3-3 | DIN 4844

Technical data

230V AC/DC | Classe II | ATS | 25m | 32m/40m | LED | Ni-mh | 1/3h | IR | 2.5 mm² | IP 40 | P 0°c/45°c

- Auto self test.
- 50,000 hour life LED light source.
- Fully meets EN1838 and EN 60598-2-22.
- Offers a variety of convenient fast installation accessories.
- Remotely controlled (infrared) At the touch of a button (no need for tools or a ladder.
- Audible and visual fault indication.(Sound Alarm and the flashing of the LED indicator).
- This fitting incorporates self test technology to automatically carry out regular testing of the Complete fitting, which saves effort and cost by avoiding the need to manually carry out the Mandatory testing of emergency luminaires luminaires.
- Suitable for: luxury offices, hospitals, restaurants and theaters.
- Connecting terminals 4 x 2,5 mm² for double assignment.

Technical specifications

Model	HSL-SCEL-02-25m	HSL-SCEL-02-32m/40m
Case material	Aluminum	
Case color	Silver(RAL9006) / Customize	
Panel material	Acrylic glass	
Mains voltage	230VAC,50HZ 230VAC/DC Central battery *	
Wattage (AC)	4.5w	5.5w
Charging time	24 hrs	
Viewing distance	EN/DIN-25m	EN/DIN-32m/40m
Emergency duration	3 hrs	
SMD LED	12LEDs	15LEDs
Protection type	IP 40 / Class II	
Battery	Ni-MH/NI-CD 4.8V 0.8 AH	Ni-MH/NI-CD 4.8V 1.2 AH
Permissible temp	0˚c - 45˚c	

Legal Basis and Requirements

Self-contained Emergency light for universal mounting according to DIN EN 60598-1, DIN EN 60598-2-22 and EN 1838 for the marking of escape and rescue routes. For single or double sided labeling.

Safety instructions

CAUTION: Work on the 230 V power system must be carried out by authorised personnel only with due regard to the applicable installation regulations. Switch off the power supply before installing the system.

HSL-SCEL-02 LED

Test button Description

Test button	Remote control Mobil-sli	Green LED	Status mode
Not pressed		ON	Battery OK, Mains Operation,No fault,Charging
Pressed approx 1 sec	Press the “5 sec” key	OFF	5 sec short-term emergency operation
Pressed approx 3 sec	Press the “30 sec” key	Blinking	Function test,30 sec.Emergency operation
Pressed approx 5 sec	Press the “1h,3h” key	Flashing	3 h long-term operating test
Pressed again approx 5 sec	Pressed again “cancel” key		Long-term operating test aborted
Remotely controlled(infrared)At the touch of a button (no need for tools or a ladder!)			

Automatic test system

On emergency lights with automatic auto-testing, the electronics and bulb’s operational readiness is checked automatically, as is the battery charging process.

20 h after applying mains voltage a function test is automatically run (items checked: switching and bulb, 30 sec. test).

After a further 4 h, an automatic 2 h long-term operating test is run If you press the test button for 5 sec. (or the Mobil-SLi remote control button “2H”) before the long-term operating test has ended, the long-term 2 h operating test is aborted.

Following the first long-term operating test, regardless of whether or not this was passed, the weekly cycle (function test of switching and bulb) and yearly cycle (long-term 2 h operating test) are automatically started.

Meaning of the indicator LED

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HSL-SCEL-02

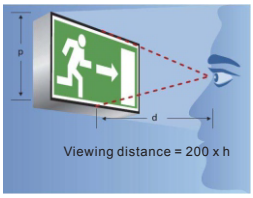
Mains operation No fault	Operation duration Test failed
Blinking Function test	Blinking Lamp/changeover fault
Flashing Operation duration test	Flashing Battery/charging fault
Mains failure+Emergency light operation	

The status display can only be cleared after the fault has been rectified, mains voltage has been Reapplied and a function test has been run.

Viewing Distance Information

The relationship between the size of the sign and viewing distance to an observer is dened by EN 1838 and DIN 4844 . For a given legend height the maximum viewing distance is calculated by the formula:
Dmax = h x 200m（for internal illuminated signs）
D = viewing distance
H = pictorgram legend height

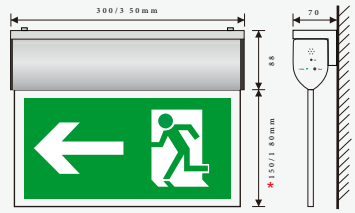
Legend size Width x Drop (millimetres)	Viewing Distance (metres)
250 x 125mm	25m
320 x 160mm	32m
320 x 200mm	40m



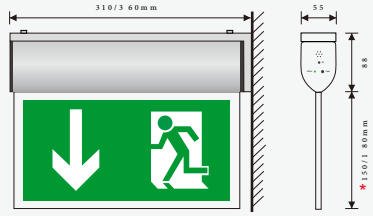
Customize colors

W	B	S	C	BR
White RAL9003	Black RAL 9005	Silver RAL 9006	Polished Chrome	Polished Brass

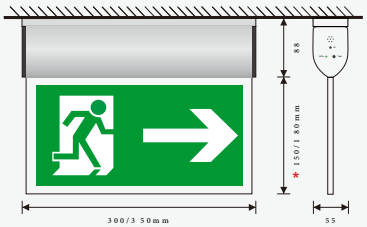
Wall mounted



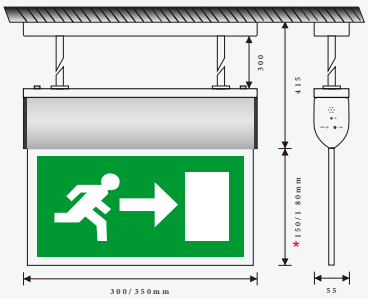
Outrigger mounted



Ceiling mounted



Pendulum mounted



* 150/Leo(E2)-25M
180/Leo(E2)-32M

Pictograms

The pictograms have to be ordered separately

EN 1838/ DIN 4844 Single

Type 1

Type 2

Type 3

Type 4

Type 5

Type 6

Type 7

Type 8

Type 9

Type 10

Type 11

Type 12

Type 13

Type 22

Type 23

Type 24

Type 25

Type 26

Type 27

Type 28

Type 29

Type 30

Type 31

Type 32

Type 33

Type 34

Type 35

Type 36

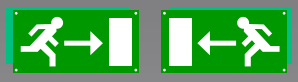
Type 37

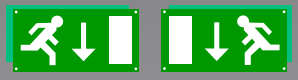
Type 38

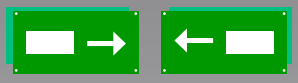
EN 1838/ DIN 4844 Double

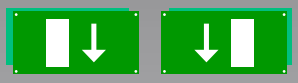
Type 14

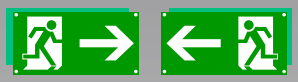
Type 15

Type 16 

Type 17 

Type 18 

Type 19 

Type 20 

Type 21

Type C00[1]

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IP 65 LED Waterproof Bulkhead

HSL-LWB-01

Standards & Approvals

Technical data

- Auto self test.
- 50,000 hour life LED light source.
- Fully meets EN1838 and EN 60598-2-22.
- Offers a variety of convenient fast installation accessories.
- Audible and visual fault indication.(Sound Alarm and the flashing of the LED indicator).
- This fitting incorporates self test technology to automatically carry out regular testing of the Complete fitting, which saves effort and cost by avoiding the need to manually carry out the Mandatory testing of emergency luminaires luminaires.
- Suitable for: luxury offices, hospitals, restaurants and theaters.
- Connecting terminals 4 x 2,5^{2}mm for double assignment.

Technical specifications

Model	HSL-LWB-01-5W	HSL-LWB-01-7W
Case material	Polycarbonate bottom case and diffuser, metal gear tray	
Case color	White RAL9003	
Mains voltage	230VAC,50HZ 230VAC/DC Central battery *	
Wattage (AC)	5.0w	7.0w
Charging time	24 hrs	
Viewing distance	EN/DIN 25M	
Emergency duration	3 Hrs	
SMD LED	12x0.2w LED	4 x1W LED
Protection type	IP 65 / Class I	
Battery	NI-CD 4.8V 1.0AH	NI-CD 4.8V 2.1AH
Permissible temp	0˚c - 50˚c	

Legal Basis and Requirements

Self-contained Emergency light for universal mounting according to DIN EN 60598-1, DIN EN 60598-2-22 and EN 1838 for the marking of escape and rescue routes. For single or double sided labeling.

Safety instructions

CAUTION: Work on the 230 V power system must be carried out by authorised personnel only with due regard to the applicable installation regulations. Switch off the power supply before installing the system.

HSL-LWB-01

Test button Description

Test button	Green LED	Status mode
Not pressed	ON	Battery OK, Mains Operation, No fault, Charging
Pressed approx 1 sec	OFF	5 sec short-term emergency operation
Pressed approx 3 sec	Blinking	Function test,30 sec.Emergency operation
Pressed approx 5 sec	Flashing	3 h long-term operating test
Pressed again approx 5 sec		Long-term operating test aborted

Automatic test system

On emergency lights with automatic auto-testing, the electronics and bulb's operational readiness is checked automatically, as is the battery charging process.

20 h after applying mains voltage a function test is automatically run (items checked: switching and bulb, 30 sec. test).

After a further 4 h, an automatic 1 h long-term operating test is run If you press the test button for 5 sec.before the long-term
operating test has ended, the long-term 1 h operating test is aborted.

Following the first long-term operating test, regardless of whether or not this was passed, the weekly cycle (function test of switching and bulb) and yearly cycle (long-term 1 h operating test) are automatically started.

Meaning of the indicator LED

HS LIGHTS
save energy & protect environment

HSL-LWB-01

Mains operation No fault	Operation duration Test failed
Blinking Function test	Blinking Lamp/changeover fault
Flashing Operation duration test	Flashing Battery/charging fault

Mains failure+Emergency light operation

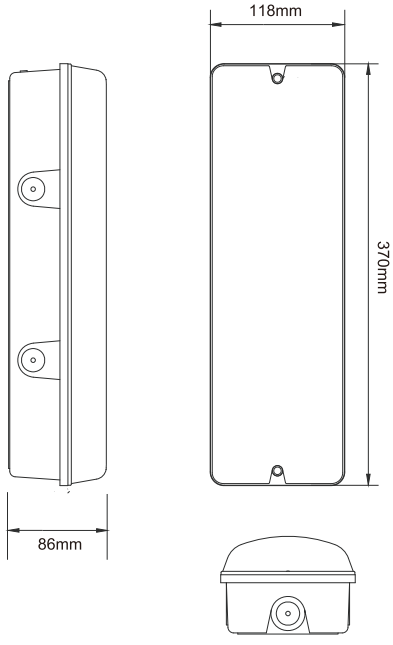
The status display can only be cleared after the fault has been rectified, mains voltage has been Reapplied and a function test has been run.

Customize colors

W

White RAL9003

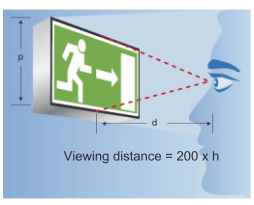
Product size



Viewing Distance Information

The relationship between the size of the sign and viewing distance to an observer is dened by EN 1838 and DIN 4844 . For a given legend height the maximum viewing distance is calculated by the formula:
Dmax = h x 200m (for internal illuminated signs)
D = viewing distance
H = pictorgram legend height

Legend size Width x Drop (millimetres)	Viewing Distance (metres)
250 x 125mm	25M



Pictograms

The pictograms have to be ordered separately

EN 1838/ DIN 4844 Single

Type 1

Type 2

Type 3

Type 4

Type 5

Type 6

Type 7

Type 8

Type 9

Type 10

Type 11

Type 12

Type 13

Type 22

Type 23

Type 24

Type 25

Type 26

Type 27

Type 28

Type 29

Type 30

Type 31

Type 32

Type 33

Type 34

Type 35

Type 36

Type 37

Type 38

EN 1838/ DIN 4844 D ouble

Type 14

Type 15

Type 16

Type 17

Type 18

Type 19

Type 20

Type 21

Corridor LED Emergency Lighting

HSL-CLEL-01

Standards & Approvals

Technical data

HSL-CLEL-01 Versatile emergency luminaire made of high quality plastic housing . Equipped with high performance LED's designed with special optics for illumination of escape and rescue routes. The terminals are designed for through wiring up to 2.5 mm ². The lamp is suitable for recessed ceiling mounting . Conforming to the requirement of EN 1838,EN 60598-2-22 and EN62034 . This lamp is available for group / central battery systems as well as emergency lighting.

The model we now offers a cc of 14,2 m with corridor lens and 9,2 m for open area. In both cases with a mounting height of 3m.

Emergency lighting for perfect light distribution especially designed for a corridor apllications.

Source LED (low power consumption and long life of approximately 50,000 hours Led)

Self test technology to automatically carry out regular testing of the Complete fitting, which saves effort and cost by avoiding the need to manually carry out the Mandatory testing of emergency luminaires.

Technical specifications

	HSL-CLEL-01-A1	HSL-CLEL-01-A2
Model	E4-628 01	E4-628 02
Surface Materials	Metal、Aluminum、ABS 94 V0	
Case color	Silver(RAL9006) / RAL9003 (white)	
Mains voltage	230VAC,50HZ or 230VAC/DC Central battery	
Wattage (AC)	6VA	
Charging time	24 hrs	
Emitter luminous flux	240 lm	
Emergency duration	3 hours	
Power LED	2 x 1W	
Protection type	IP 20 / Class I	
Battery Pack	Ni-MH/NI-CD	
Permissible temp	-0° up to +40°C	
Weight	1,0kg	1,3kg

Legal Basis and Requirements

Self-contained Emergency lighting for universal mounting according to DIN EN 60598-1, DIN EN 60598-2-22 and EN 1838 for the marking of escape and rescue routes. For single or double sided labeling.

Safety instructions

CAUTION: Work on the 230 V power system must be carried out by authorised personnel only with due regard to the applicable installation regulations. Switch off the power supply before installing the system.

HSL-CLEL-01 LED

Test button Description

Test button	Green LED	Status mode
Not pressed	ON	Battery OK, Mains Operation, No Fault, Charging
Pressed approx 1 sec	OFF	5 sec short-term emergency operation
Pressed approx 3 sec	Blinking	Function test,30 sec.Emergency operation
Pressed approx 5 sec	Flashing	1 h long-term operating test
Pressed again approx 5 sec		Long-term operating test aborted

Automatic test system

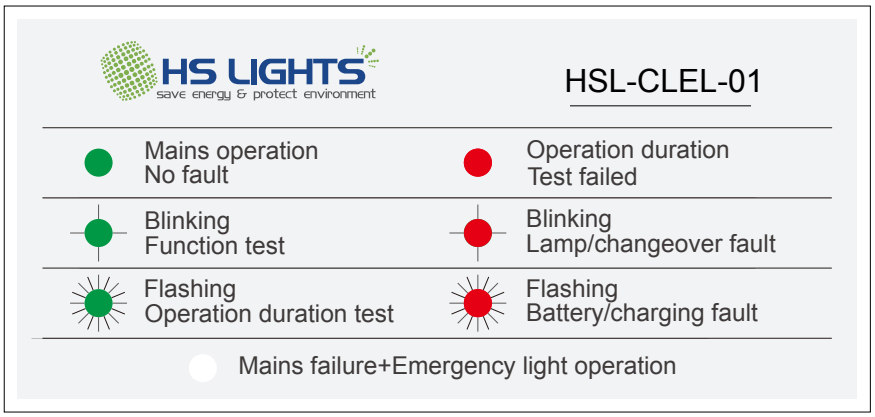
On emergency lights with automatic auto-testing, the electronics and bulb's operational readiness is checked automatically, as is the battery charging process.

20 h after applying mains voltage a function test is automatically run (items checked: switching and bulb, 30 sec. test).

After a further 4 h, an automatic 1 h long-term operating test is run If you press the test button for 5 sec.before the long-term
operating test has ended, the long-term 1 h operating test is aborted.

Following the first long-term operating test, regardless of whether or not this was passed, the weekly cycle (function test of switching and bulb) and yearly cycle (long-term 1 h operating test) are automatically started.

Meaning of the indicator LED



The status display can only be cleared after the fault has been rectified, mains voltage has been Reapplied and a function test has been run.

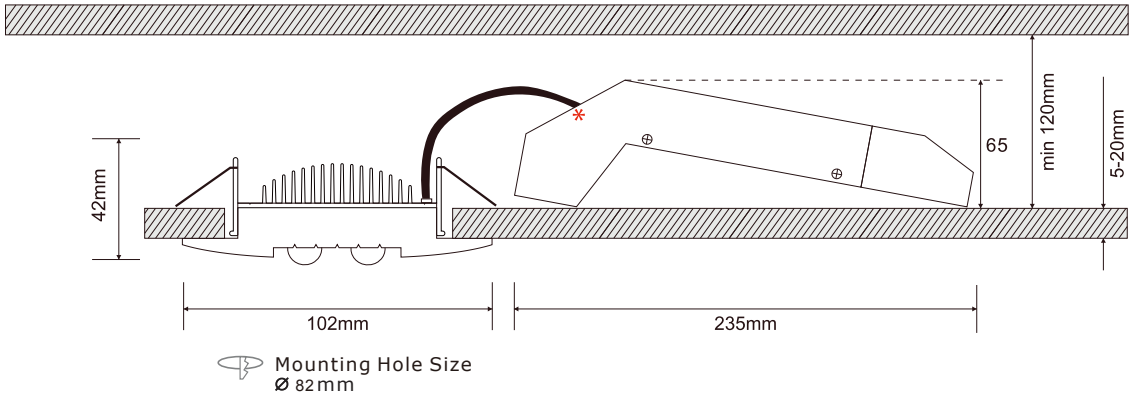
Customize colors

W
White RAL9003

B
Black RAL 9005

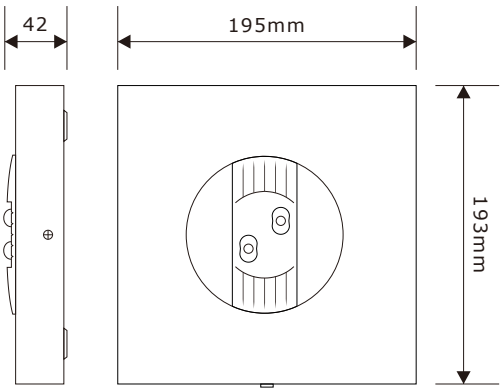
S
Silver RAL 9006

HSL-CLEL-01-A1 Size

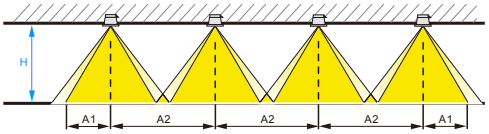


HSL-CLEL-01 LED

HSL-CLEL-01-A2 Size

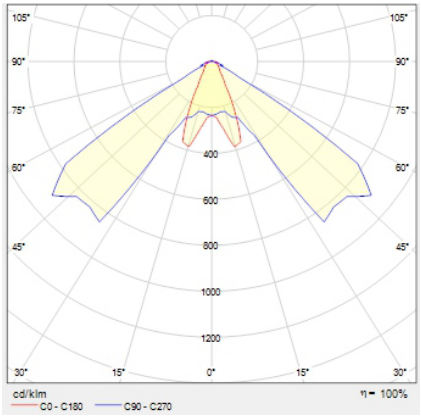
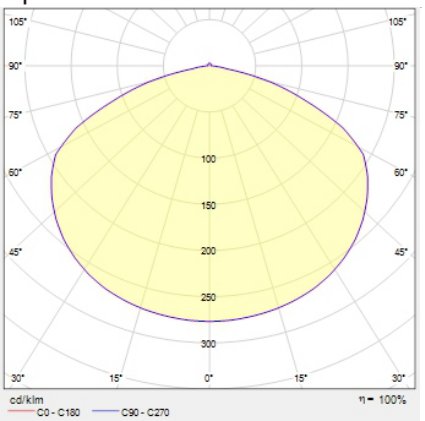
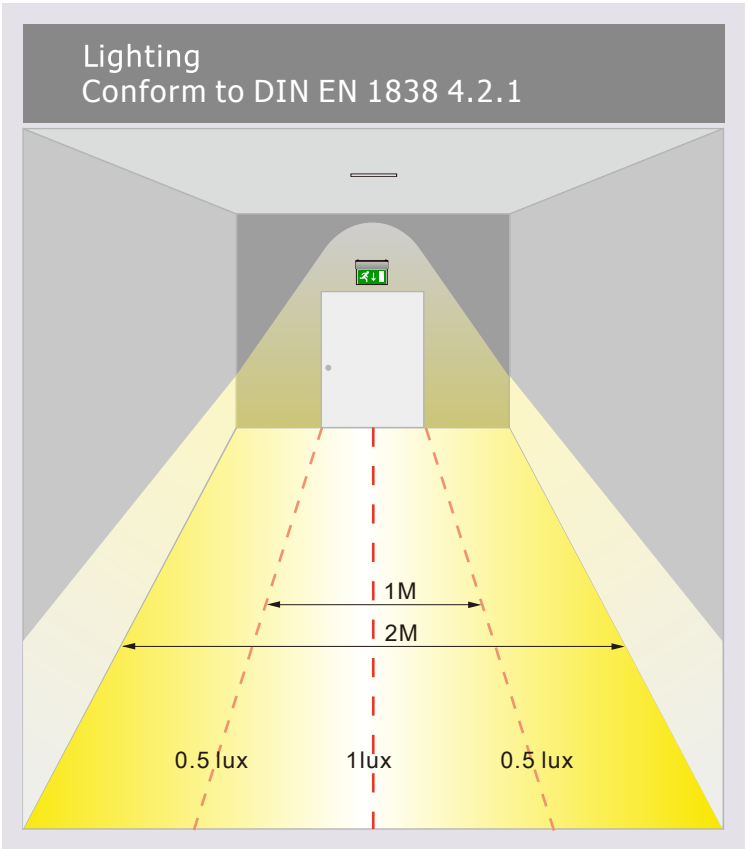


1 Lux Emergency lighting level spacing tables



	Corridor lens		Open areas lens	
High H(M)	A1	A2	A1	A2
2,00	6,05	12,10	4,05	8,10
2,50	6,60	13,20	4,35	8,70
3,00	7,10	14,20	4,60	9,20
4,00	7,50	15,00		
5,00	8,00	16,00		

Corridor lens



Open areas lens