CERTIFICATE

Issued to:

Applicant: Licensee:
ABB limited   **ABB B.V.**
Bruntcliff Lane   **George Hintzenweg 81**
Leeds LS27 9LL, United Kingdom   **3068 AX Rotterdam, Netherlands**

Product	:	Emergency luminaires with LED light source
Trade name(s)	:	EMERGI-LITE, KAUFEL or VAN LIEN
Type(s)/model(s)	:	Optilux series

The product and any acceptable variation thereof as specified in the Annex to this certificate and the documents referred to therein.

DEKRA hereby declares that the above-mentioned product has been certified based on:
- a type test according to EN IEC 60598-2-22:2022, EN IEC 60598-1:2021 and EN IEC 60598-1:2021/A11:2022
- an inspection of the factory location according to CENELEC Operational Document CIG 021
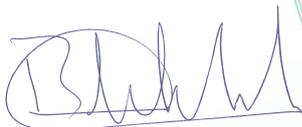- a DEKRA certification agreement with the number 2220167

DEKRA hereby grants the right to use the ENEC certification mark.

The ENEC certification mark may be applied to the product as specified in this certificate for the duration and under the conditions of the ENEC certification agreement.

This certificate is issued on 19 August 2024 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 71-129260 REV.1

DEKRA Certification B.V.

B.T.M. Holtus   Jens Marggraf
Managing Director   Certification Manager

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DUTCH ACCREDITATION
COUNCIL

PRODUCTS
RvAC 001

ENEC 05

SPECIFICATION OF THE CERTIFIED PRODUCT

Product data

Product	:	Emergency luminaires with LED light source
Trade name(s)	:	EMERGI-LITE, KAUFEL or VAN LIEN
Type(s)/model(s)	:	Optilux series
Model	:	Optilux with LED
Rated voltage/nature of supply	:	230-240 Vac - self-contained
		220-240 Vac/dc - centrally supplied
		24 Vac/dc - centrally supplied
Rated frequency	:	50 Hz; dc
Rated power (LED)	:	2 x 1 W, 1 x 2 W or 1 x 4 W
Ambient temperature range	:	ta: 0 °C - +35 °C (max 2 W)
		ta: 5 °C - +35 °C (max 4 W)
Classification	:	Class I
Degree of protection against ingress of dust, solid objects and moisture	:	IP20 / IP40
Autonomy time	:	1 h / 3 h
Description	:	Self-contained and centrally supplied emergency luminaires. Suitable for surface mounting or recessed mounting.

TESTS

Test requirements
EN IEC 60598-2-22:2022
EN IEC 60598-1:2021
EN IEC 60598-1:2021/A11:2022

Test result
The test results are documented in DEKRA test file 227731100.

Additional information
These luminaires contain a LED module which is in compliance with EN IEC 62031:2020 + A11:2021 (tested as part of the appliance).

These luminaires contain a LED driver which is in compliance with EN 61347-2:2012+A1:2018+A2:2022/EN 61347-2-13:2014+A1:2017 used in conjunction with EN 61347-1:2015+A1:2021. (tested as part of the appliance).

This certificate replaces certificate No. 71-129260 which we hereby declare invalid.

The list of components is laid down in test report 2277311.59.

Conclusion
The examination has confirmed that all requirements were met.

Factory location
ABB limited
Bruntcliff Lane
Leeds LS27 9LL, United Kingdom

Product key/range:

HORIZON / OPTILUX | TRADEMARK: VANLIEN

HOR 04A/1/ZT/LED	IL-230HF/LED/DZ
HOR 04A/1/LB400/LED	HOR/A/1/ZT/LED
HOR 04A/1/CIS/LED	HOR/A/1/ZT/LED/DZ
HOR 04A/3/ZT/LED	HOR/HF/LED
HOR 04A/3/CIS/LED	HOR/HF/LED/DZ
HORI 04A/1/ZT/LED	HOR/A/1/ZT/LB400/LED
HORI 04A/1/LB400/LED	HOR/A/1/ZT/LB400/LED/ DZ
HORI 04A/1/CIS/LED	HOR/A/1/CIS/LED/DZ
HORI 04A/3/ZT/LED	HOR/A/1/CIS/LED
HORI 04A/3/CIS/LED	HOR/A/3/ZT/LED
RHOR 04A/1/ZT/LED	HOR/A/3/CIS/LED/DZ
RHOR 04A/1/LB400/LED	HOR/A/3/ZT/LED/DZ
RHOR 04A/1/CIS/LED	HOR/A/3/CIS/LED
OLN-1/ZT/LED	HOR/HF/LED
OLN-1/ZT/LED/DZ	HOR/HF/LED/DZ
OLN-3/ZT/LED	HORI/A/1/ZT/LED/DZ
OLN-1/CIS/LED	HORI/HF/LED/DZ
OLN-3/CIS/LED	HORI/A/1/ZT/LED
OLN-1/CIS/LED/DZ	HORI/A/1/CIS/LED
OLN-3/CIS/LED/DZ	HORI/A/1/ZT/LB400/LED
OLN-3/ZT/LED/DZ	HORI/A/1/ZT/LB400/LED/ DZ
OL-230HF/LED	HORI/A/1/CIS/LED/DZ
OL-230HF/LED/DZ	HORI/HF/LED
OL-24/LED/DZ	HORI/A/3/ZT/LED/DZ
OL-24/LED	HORI/A/3/CIS/LED/DZ
ILN-1/ZT/LED	RLN-1/ZT/LED
ILN-1/ZT/LED/DZ	RLN-1/ZT/LED/DZ
ILN-1/CIS/LED/DZ	RLN-1/CIS/LED
ILN-3/CIS/LED/DZ	RLN-1/CIS/LED/DZ
ILN-3/ZT/LED/DZ	RLN-3/ZT/LED
IL-24/LED/DZ	RLN-3/ZT/LED/DZ
IL-230HF/LED	RLN-3/CIS/LED

RLN-3/CIS/LED/DZ
RL-230HF/LED
RL-230HF/LED/DZ
RL-24/LED
RL-24/LED/DZ
RHOR/A/1/ZT/LB400/LED
RHOR/A/1/ZT/LB400/LED/DZ
RHOR/A/1/ZT/LED
RHOR/A/1/CIS/LED
RHOR/HF/LED
RHOR/A/1/ZT/LED/DZ
RHOR/A/1/CIS/LED/DZ
RHOR/HF/LED/DZ
HOR 04/HF/LED
HOR 04/HF/LED/FLX
HORI 04/HF/LED
HORI 04/HF/LED/FLX

OLN	=	Optilux – surface mounting – maintained
OL	=	Optilux – surface mounting – non-maintained
ILN	=	Optilux – recessed mounting – maintained
IL	=	Optilux – recessed mounting – non-maintained
HOR	=	Horizon surface mounting
HORI	=	Horizon recessed version
RHOR	=	Horizon renovation version
RLN	=	Optilux renovation version – maintained
RL	=	Optilux renovation version – non-maintained
04A	=	1 x 4W LED
1	=	1 hr autonomy
3	=	3 hr autonomy
230HF	=	Slave (Centrally supplied)
HF	=	Slave (Centrally supplied)
24	=	24V Slave (centrally supplied)
A	=	Maintained
ZT	=	Selftest
CIS	=	BUS communication version / NaveoPro wired
LED	=	Full LED light source
DZ	=	Double sided
BT	=	Bluetooth communication
LS	=	equipped with light sensor
FLX	=	FLX communication module

OPTILUX | TRADEMARK: KAUFEL

OPTILUX 22 M3 SU LED AUFBAU
OPTILUX 22 M3 BUS LED AUFBAU
OPTILUX 24 M3 SU LED AUFBAU
OPTILUX 24 M3 BUS LED AUFBAU
OPTILUX 22/220 LED AUFBAU
OPTILUX 24/220 LED AUFBAU
OPTIL 22 UMRUESTSATZ LED M3 SU
OPTIL 22 UMRUESTSATZ LED M3BUS
OPTIL 24 UMRUESTSATZ LED M3 SU
OPTIL 24 UMRUESTSATZ LED M3BUS
OPTIL 22 UMRUESTSATZ LED EVG220
OPTIL 24 UMRUESTSATZ LED EVG220

22	=	Wall
24	=	Ceiling
M3	=	3 hr autonomy
220	=	Slave (Centrally supplied)
EVG 220	=	Slave (Centrally supplied)
SU	=	Selftest
BUS	=	Communication version / NaveoPro wired
AUFBAU	=	Surface mounting
EINBAU	=	Recessed mounting
UMRUESTSATZ	=	Renovation

OPTILUX | TRADEMARK : EMERGI-LITE

HORIZON 2LED SIGN M3
HORIZON CT 2LED SIGN M3
HORIZON LEDS EDGE SIGN M3
HORIZON CT LEDS EDGE SIGN M3
HORIZON 2XLED SIGN 230VHF
HORIZON 2XLED SIGN 230VLTC
HORIZON LEDS EDGE SIGN 230VHF
HORIZON LEDS EDGE SIGN 230VLTC
HORIZON 2LED REC-SIGN M3
HORIZON CT 2LED REC-SIGN M3
HORIZON LEDS REC-EDGE SIGN M3
HORIZON CT LEDS REC-EDGE SIGN M3
HORIZON 2XLED REC-SIGN 230VHF
HORIZN LEDS REC-EDG SIGN 230HF
HORZN LEDS REC-EDG SIGN 230LTC
HORIZON 2XLED REC-SIGN 230VLTC
HORIZON 2LEDS SIGN M3 220V60HZ
HORIZON LEDS REC-EDGE SIGN M3 60HZ
HORIZON 2LED M3 IR2
HORIZON REC 2LED M3 IR2
HORIZON D-S LEDS M3 IR2
HORIZON REC D-S LEDS M3 IR2

2LED　　= Back-lit LED exit sign / Single sided / Wall mounted
2XLED = Back-lit LED exit sign / Single sided / Wall mounted
SIGN　　= Sign Pictogram
M3　　　= 3 hr autonomy
EDGE　 = Edgelite / Double sided / Ceiling mounting
230VHF　= Slave (Centrally supplied)
230VLTC = Slave LTC communication (Centrally supplied)
REC　　= Recessed mounting

Note: "ZT" as mentioned in the product key can be replaced by "ST" or "Sü" for foreign versions