

EU TYPE-EXAMINATION CERTIFICATE

1. EU type-examination Certificate (Module B)
2. Equipment or Protective System intended for use in potentially explosive atmospheres (Directive 2014/34/EU)



3. EU type examination certificate Nr ITS20ATEX305465X R.0

4. Product: Transportable Battery Powered Light – Guardian CFL and LED Light

5. Manufacturer: BME Nitech Ltd. Applicant: BME Nitech Ltd.

6. Address: Unit 2A, Nevis Business Park,
Balgownie Road, Bridge of Don,
Aberdeen, AB22 8NT, UK

7. This product and any acceptable variation thereto are specified in the schedule to this certificate and therein referred to.

8. INTERTEK ITALIA S.p.A., Notified Body n° 2575 in accordance with article 17 of the Directive 2014/34/EU of the European Parliament and Council of the 26 February 2014, certifies that the equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective system intended for use in potentially explosive atmosphere, given in Annex II of the Directive.

The examination and tests results are recorded in confidential technical evaluation Intertek Report Nr. 106057886LHD-001 dated 6th February 2025.

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN IEC 60079-0:2018, EN IEC 60079-7:2015+A1:2018, EN 60079-11:2012, EN 60079-18:2015+A1:2017 and EN 60079-31:2014 except in respect of those requirements referred to at item 16 of the Schedule.

10. If the sign X is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.

11. This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12. The marking of the product shall include the following:



II 2GD Ex eb ib mb IIC T4 Gb
Ex ib mb tb IIIC T135C Db
-20°C to +40°C for CFL Light
-20°C to +50°C for LED Light

Certificate issue date

14th February 2025

Mark Newman

Certification Officer
Intertek Italia S.p.A. (NB 2575)



PDR N° 277B

Membro degli Accordi di Mutuo
Riconoscimento EA, IAF e ILAC

Signatory of EA, IAF and ILAC
Mutual Recognition Agreements

This certificate has been issued by Intertek Italia S.p.A. NB 2575 on transfer from Intertek Testing & Certification Ltd. (NB 0359) using the same issued original certificate number.



This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

Intertek Italia S.p.A. Via Miglioli, 2/A - 20063 Cernusco sul Naviglio, Milano - Italy

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13. DESCRIPTION OF THE EQUIPMENT OR PROTECTIVE SYSTEM

The BME Nitech Ltd. Guardian CFL (GU-Z1-CFL) and Guardian LED (GU-Z1-LED) Portable Lights are transportable luminaires powered by a rechargeable battery for providing a light source for use in hazardous areas where explosive gas atmospheres or explosive dust atmospheres may be present.

The equipment comprises a base unit containing a lead/acid battery linked to light head mounted on an adjustable bracket to permit adjustment of the light distribution provided by the luminaire.

The compact fluorescent (CFL) light sources or LED light sources are placed behind a polycarbonate lens, which is coated in an anti-static coating.

Charging of the battery is permitted only in a non-hazardous area.

The battery and CFL Lamps or LED light source are not user serviceable and must be returned to the manufacturer for service.

CE Marking shall be accompanied by the identification number of the Notified Body responsible for surveillance of production.

14. DRAWINGS AND DOCUMENTS

TITLE	DOCUMENT Nr	LEVEL	DATE
Guardian CFL portable light			
Items List for Charge & Switch Control PCB Assembly	ARCV1	A1	20-01-2020
ARCV10 PCB Schematic, Charge & Switch Schematic	ARCV11	A	24-10-2019
ARCV10 PCB Details	ARCV12	A	24-10-2019
Charge & Switch Potting Details	ARCV16	A1	17-01-2020
Charge and Switch Box	ARCV17	A	24-10-2019
Items List for CFL Driver PCB ARCV20 and Assembly	ARCV2	D1	20-01-2020
ARCV20 PCB Schematic CFL Driver Circuit	ARCV21	D	24-10-2019
ARCV20 PCB Details	ARCV22	D	24-10-2019
CFL Driver Potting Details	ARCV26	B1	17-01-2020
CFL Driver Box	ARCV27	C	24-10-2019
Guardian Zone I CFL Light-Head Assembly	EX-DRW-001-1	2	30-01-2020
Guardian Zone I CFL Handle Assembly Detail	EX-DRW-001-2	2	30-01-2020
Guardian Zone I CFL Pivot Bracket Assembly Detail	EX-DRW-001-3	2	30-01-2020
Guardian Zone I CFL Reflector Tray Assembly Detail	EX-DRW-001-4	2	30-01-2020
Guardian Zone I CFL Lens Assembly Detail	EX-DRW-001-5	2	30-01-2020
Guardian Zone I CFL Battery Enclosure Assembly	EX-DRW-001-6	2	30-01-2020
Guardian Zone I CFL Lid Assembly Detail	EX-DRW-001-7	2	30-01-2020
Guardian Zone I CFL Base Assembly Detail	EX-DRW-001-8	2	30-01-2020
Guardian Zone I CFL Battery Enclosure Earth Detail	EX-DRW-001-9	2	30-01-2020
Guardian Zone I CFL Light-Head Wiring	EX-DRW-002-1	2	30-01-2020
Guardian Zone I CFL Base Wiring	EX-DRW-002-2	2	30-01-2020
Guardian Zone I CFL Wiring	EX-DRW-002-6	2	30-01-2020
Potted CFL Lamp Assembly	EX-DRW-001-17	2	30-01-2020
Guardian Zone I CFL Label	EX-DRW-003-18	2	30-01-2020
Guardian Zone I CFL-LED Light-Head Machining	EX-DRW-003-1A	2	30-01-2020
Guardian Zone I CFL-LED Lid Machining Op. 2	EX-DRW-003-2B	2	30-01-2020
Guardian LED portable light			
ARCV10 PCB Schematic, Charge and Switch Schematic	ARCV11	A	24-10-2019



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TITLE	DOCUMENT Nr	LEVEL	DATE
ARCV10 PCB Details	ARCV12	A	24-10-2019
Items List for Charge & Switch Control PCB Assembly	ARCV13	A1	20-01-2020
Charge & Switch Potting Details	ARCV16	A1	17-01-2020
Charge & Switch Box	ARCV17	A	24-10-2019
ARCV30 Zone I & II LED PCB Schematic	ARCV31	D	24-10-2019
ARCV30 PCB Details	ARCV32	D	24-10-2019
Items List for Zones I and II LED PCB	ARCV35	D	24-10-2019
ARCV40 PCB Schematic, LED Driver/Warning Circuit	ARCV41	C1	28-10-2019
ARCV40 PCB Details	ARCV42	C1	28-10-2019
Items List for Zone I Battery LED Driver Assembly	ARCV45	C3	20-01-2020
LED Driver Potting Details	ARCV46	B1	17-01-2020
LED Control Box	ARCV47	C	28-10-2019
Guardian Zone I LED Light-Head Assembly	EX-DRW-001-10	2	30-01-2020
Guardian Zone I LED Handle Assembly Detail	EX-DRW-001-11	2	30-01-2020
Guardian Zone I LED Pivot Bracket Assembly Detail	EX-DRW-001-12	2	30-01-2020
Guardian Zone I LED LED Backplate Assembly Detail	EX-DRW-001-13	2	30-01-2020
Guardian Zone I LED Lens Assembly Detail	EX-DRW-001-14	2	30-01-2020
Guardian Zone I LED Battery Enclosure Assembly	EX-DRW-001-15	2	30-01-2020
Guardian Zone I LED Lid Assembly Detail	EX-DRW-001-16	2	30-01-2020
Guardian Zone I LED Base Assembly Detail	EX-DRW-001-17	2	30-01-2020
Guardian Zone I LED Battery Enclosure Earth Detail	EX-DRW-001-18	2	30-01-2020
Guardian Zone I LED Light-Head Wiring	EX-DRW-002-3	2	30-01-2020
Guardian Zone I LED Base Wiring	EX-DRW-002-4	2	30-01-2020
Guardian Zone I LED Wiring	EX-DRW-002-7	2	30-01-2020
*Guardian Zone I LED Label	EX-DRW-003-19	2	30-01-2020
Guardian Zone I CFL-LED Light-Head Machining	EX-DRW-003-1A	2	30-01-2020
Guardian Zone I CFL-LED Lid Machining Op. 2	EX-DRW-003-2B	2	30-01-2020
*OPERATION MANUAL, ATEX/IECEx/UKEX ZONE I GUARDIAN LED PORTABLE LIGHT	-	1.7	-

Note: An * is included before the title of documents that are new or revised.

Copies of the above listed documents are kept at Intertek Italia S.p.A. archive.

15. SPECIFIC CONDITIONS OF USE

- Do not charge in the hazardous area.
- Lamp and battery are not user serviceable items.
- Use only the manufacturer's specified charger.
- Refer to the manufacturer's instructions for guidance on the durability of the anti-static coating on the lens.

16. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS

The relevant Essential Health and Safety Requirements (EHSRs) have been identified and assessed in Intertek Report: 102585159LHD-004A Issue 1 dated 30th January 2020.



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17. ROUTINE (FACTORY) TESTS

- (CFL and LED) Encapsulated parts shall be visually inspected.
- (CFL and LED) A dielectric strength test shall be performed at on the completed luminaire at 500V ac for 1 minute between the battery terminals and the case of the equipment.
- (CFL) The lamp connections of the CFL ballast module shall be routinely tested at 2000V ac for 1 minute between the lamp connections connected together and the case of the module.
- (CFL and LED) The low voltage connections of the encapsulated modules shall be routinely tested at 500V ac for 1 minute between the connections connected together and the case of the module.

18. DETAIL OF CERTIFICATE CHANGES

R.0 (14th February 2025):

- Initial release by Intertek Italia S.p.A. NB 2575 based on the assessment performed on January 2025 and on the certificate legal ownership transferred from Intertek Testing & Certification Ltd. (NB 0359); the same issued original certificate number is used.
- To allow an increase in upper ambient temperature from +40°C to +50°C for an LED version of the Guardian Light.
- Update to documentation.