

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 **ITS20ATEX25919X R.2**

4. **Product:** Instrumentation Lights (System: power Supply and Lights)

5. **Manufacturer:** Clark-Reliance Corp. **Applicant:** Clark-Reliance Corp.

6. **Address:** 16633 Foltz Parkway **Address:** 16633 Foltz Parkway
Strongsville, OH 44149, USA Strongsville, OH 44149, USA

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. 104580345CRT-004 Dated: 5 February 2021 and Intertek Report Nr. 103461116CRT-003 Dated: 17 November 2020, Intertek Report Nr. 105531690CRT-002 Dated: 29 August 2023 and Intertek Report Nr. 105636804CRT-002 Dated: 09 November 2023.

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN IEC 60079-0:2018, EN 60079-1:2014 and EN 60079-11:2012 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 2(2) G Ex db [ib] IIB+H2 T4 Gb (Power Supply)
II 2 G Ex ib IIB+H2 T4 Gb (Lights)
-40°C ≤ Ta ≤ +60°C

28 November 2023

Certificate issue date



Todd L. Relyea
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 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

LFT-EMEA-IT-ATEX-OP-23a (8 March 2022)



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13. DESCRIPTION OF THE EQUIPMENT OR PROTECTIVE SYSTEM

The products are a series of instrumentation lights that provide illumination for various types of measurement/monitoring items. The products are intended to be fixed installation. The products require field connection to external supply (Mains Power). The products include an Ex db [ib] power supply and Ex ib Light Assembly with a specific interconnecting cable at up to 22 Meters Long.

- EPL-100- : Jerguson LumaStar (Series) Aluminum
- E-EPL-100- : EFI Branded LumaStar (Series) Aluminum
 - Linear Light: Varying LED Assembly Lengths: 4" – 60";
 - Based On: PCB Assemblies Lengths: 4", 6", 8", 10", 12";
 - Followed by 1 to 99; Gage Window Size;
 - Followed by -3, -4; -3 = ATEX/IECEX, 115Vac, 50/60Hz;
 - 4 = ATEX/IECEX, 230Vac, 50/60Hz;
 - Followed by -1 to -99; Number of Gauge Sections;
 - Followed by -1 to -99; Mounting Brackets;
 - May be followed by -D or -R; -D = Daisy Chain;
 - R = Remote Mount

- EPL-316- : Jerguson LumaStar (Series) Stainless Steel
- E-EPL-316- : EFI Brandard LumaStar (Series) Stainless Steel
 - Linear Light: Varying LED Assembly Lengths: 4" – 60";
 - Based On: PCB Assemblies Lengths: 4", 6", 8", 10", 12";
 - Followed by 1 to 99; Gage Window Size;
 - Followed by -3, -4; -3 = ATEX/IECEX, 115Vac, 50/60Hz;
 - 4 = ATEX/IECEX, 230Vac, 50/60Hz;
 - Followed by -1 to -99; Number of Gauge Sections;
 - Followed by -1 to -99; Mounting Brackets;
 - May be followed by -D or -R; -D = Daisy Chain;
 - R = Remote Mount

- TIK-PH- : Jacoby Tarbox Phaeton (Series) Aluminum
 - Round Light Assembly;
 - Followed by SL or HL; SL = Standard Light with Standard Mounting;
 - HL = Hygienic Light with Hygienic Mounting;
 - Followed by -L or -S; -L = Aluminum Light Body
 - S = Stainless Light Body
 - Followed by -1 or -2; -1 = 115V Power Supply;
 - 2 = 230V Power Supply;
 - Followed by -1 to -99; Cord Length (72' maximum);
 - Followed by -X; ATEX / IECEX.

- A30335- : Jerguson NightStar (Series) Aluminum
 - Linear Light: Varying LED Assembly Lengths: 12" – 168";
 - Based On: PCB Assemblies Lengths: 3", 6", 12";
 - Followed by -1, -2; -1 = 115V Power Supply;
 - 2 = 230V Power Supply;
 - Followed by -001 to -240; Length;
 - May be followed by I, M, %, or B; I = Foot/Inch Length Units;
 - M = Metric Length Units;
 - % = Percent Length Units;
 - B = Blank/Custom Units;
 - May be followed by N, F, or P; N = Non-frost Extension;
 - F = Float Failure;
 - P = Purge Kit.



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- RDX 5000- : Reliance DuraStar (Series) Aluminum
 Linear Light: Varying LED Assembly Lengths: 11.75" – 19";
 Based On: PCB Assemblies Lengths: 10.75", 12", 13.5", 14.5", 15.5", 16.25", 17", 18";
 Followed by 0 to 9; Gauge Manufacturer Code;
 Followed by -0 to -9; Gauge Size;
 Followed by -1, -2; -1 = 115V Power Supply;
 -2 = 230V Power Supply;
 Followed by -H; Hazardous Locations Model;
 Followed by -1 to -99; Gauge Pressure.

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
Assembly: LumaStar ATEX / IECEx	A-27464-EX	4	10/25/2023
Assembly: Light: Phaeton SL/HL: ATEX / IECEx	A-5141	1	12/27/2019
Assembly: NightStar: ATEX / IECEx	A-30335	1	12/27/2019
Assembly: Hazardous Location: DuraStar ATEX / IECEx	DX5000-A	1	1/7/2020
PCB Fabrication & Assembly, IS Star Power Supply	PC-25114	3	08/09/2023
Power Supply Assembly IS Star (115Vac)	S-25115-115	2	08/09/2023
Power Supply Assembly IS Star (230Vac)	S-25115-230	2	08/09/2023
Assembly, Power Supply, ATEX / IECEx	S-25481	0	8/27/2020
Schematic, IS Star Power Supply	ES-25115	2	12/21/2016
Schematic, LumaStar 4 Inch LED PCB	ES-23174-4	1	10/26/2020
Schematic, LumaStar 6 Inch LED PCB	ES-23174-6	1	10/26/2020
Schematic, LumaStar 8 Inch LED PCB	ES-23174-8	1	10/26/2020
Schematic, LumaStar 10 Inch LED PCB	ES-23174-10	1	10/26/2020
Schematic, LumaStar 12 Inch LED PCB	ES-23174-12	1	10/26/2020
Schematic, LumaStar End LED PCB	ES-23174-END	1	10/26/2020
Schematic, LumaStar Bottom LED PCB	ES-23456	1	10/26/2020
Schematic, DuraStar LED PCB Arrays	ES-RDS5004-X-X-H	2	2/22/2019



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TITLE	DOCUMENT Nr	LEVEL	DATE
Schematic, BOM/PCB NightStar LED Array	ES-S23431-X	1	8/17/2017
Schematic, BOM/PCB Phaeton SL LED Array	ES-TA5053	2	10/26/2020
Diode, Zener 5.1V 5W	E-D-1N53385W	0	2/7/2019
Transformer 15/230 To 10/20	E-TR-IP020A	0	8/6/2019
Resistor, 22 Ohm, 3W SMT6327 Resistor, 22 Ohm, 3W SMT6227	E-R-22-3WS6327 or E-R-22-3WS6227	0 0	2/6/2019 2/6/2019
Resistor, 180 Ohm, 25W	E-R-180-25WW	0	1/18/2017
Fuse, 125mA 5 x 20 mm DIN or Fuse, 250mA 5 x 20 mm DIN	E-F-DIN-0125-T or E-F-DIN-0250-T	0 2	10/16/2020 4/9/2012
Wire, Electrical #18 AWG 5KV	E-W-18-02-5K	0	1/19/2017
Tubing, Heat Shrink-On	E-HSTB	0	11/5/2015
Bracket, Power Supply Bracket	V-22720	0	8/25/2020
Bracket, Power Supply Divider	V-22719	0	8/25/2020
Enclosure, Ex-Proof	V-20815	1	10/30/2020
Enclosure, Ex-Proof, SS	V-22514	0	4/4/2019
Fitting, Explosion Proof	V-20603	1	10/29/2020
Seal Fitting, 1/2 FNPT x 1/2MNPT, Brass	V-20860	1	10/30/2020
Seal Fitting, 1/2 FNPT x 3/4MNPT, 316SS	V-21811	3	08/25/2023
Terminal Block, Plug, 2 Pos, 0.15 Inch	E-TB-3M2POS-P	0	1/19/2017
Terminal Block, PCB, 2Pos, 5 mm	E-TB-M2POS	0	1/19/2017
Terminal Block, Plug, 2 Pos, 5 mm	E-TB-2POS-PLUG	0	1/19/2017
Terminal Block, PCB, 2 Pos, 0.15 Inch	E-TB-3M2POS	0	1/19/2017
Fuse Holder, 5x20 MM DIN	E-FH-LF1009	0	1/16/2017
Fuse Holder, 5x20 MM DIN, Cover	E-FH-LF1009C	0	1/16/2017
Lumastar, Flat Glass Illuminator, Aluminum	S-23308	4	10/29/2020



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TITLE	DOCUMENT Nr	LEVEL	DATE
Lumastar, EPL-316 Light Strip	S-23934	2	10/30/2020
Nightstar, Extrusion Assembly	S-23430	2	10/30/2020
Durastar, Light Assembly, Hazloc	DS5002-A	1	10/30/2020
Label: Power Supply: ATEX / IECEx LumaStar	V-20831-EX	2	01/25/2021
Label: Power Supply: ATEX / IECEx LumaStar	V-22622-EX	1	01/25/2021
Label: Rating: ATEX / IECEx LumaStar	V-20832-EX	2	01/25/2021
Label: Power Supply: ATEX / IECEx Phaeton	A-5137	2	01/25/2021
Label: Light: ATEX / IECEx Phaeton SL/HL	A-5138	2	01/25/2021
Label: Power Supply: ATEX / IECEx NightStar	V-21374	2	01/26/2021
Label: Rating: ATEX / IECEx NightStar	V-21375	2	01/26/2021
Label: Power Supply: Haz Loc: ATEX / IECEx DuraStar	DX9000-A	2	01/25/2021
Label: Rating: Haz Loc: ATEX / IECEx DuraStar	DX9001-A	2	01/25/2021
Label, AC Input	V-22712	0	8/13/2020
Cord: Power: 4 Pin	V-20509	2	3/6/2017
Cord, Power: Offshore Lumastar	V-21249	4	10/30/2020
Cord: Extension: Offshore Lumastar	V-21319	1	10/30/2020
Cord: Extensions	V-20601	0	10/26/2020
Cord: Power: 4 Pin, Straight	DS7009-A	0	10/26/2020
Illuminator, Control & Installation	CI-26677	3	10/25/203

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



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15. SPECIFIC CONDITIONS OF USE

- External non-metallic and/or painted surfaces of the equipment may store electrostatic charge and become a source of ignition in applications with a low humidity <~30% relative humidity. Keep external non-metallic and painted surfaces free of surface contamination such as dirt, dust or oil using only a damp cloth.
- Warning: This equipment contains non-metallic / painted enclosure parts, to prevent the risk of electrostatic sparking. All non-metallic / painted surfaces should only be cleaned with a damp cloth.
- Take precautions to avoid possible ignition hazards by impact or friction.

16. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS

The relevant Essential Health and Safety Requirements have been identified and assessed in Intertek Report Nr. 10458034CRT-004 Dated: 5 February 2021.

17. ROUTINE (FACTORY) TESTS

- Protective Mains Transformers:
Perform each hi-pot test with less than 5mA of leakage for a minimum of 1 second on every part.
 - a) Primary to Secondary: 4000V
 - b) Any Winding to Core: 4000V

18. DETAIL OF CERTIFICATE CHANGES

R.0 (5 February 2021)

- Initial release by Intertek Italia S.p.A. NB 2575 based on the assessment performed on February 2021 and on the certificate legal ownership transferred from Intertek Testing & Certification Ltd. (NB 0359); the same issued original certificate number is used.
- Changed markings: ATEX NB# from 0359 to 2575.

R.1 (29 August 2023)

- Updated document PC-25114 from revision 2 to 3.
- Updated document S-25115-115 from revision 1 to 2.
- Updated document S-25115-230 from revision 1 to 2.
- Updated document V-21811 from revision 2 to 3.

R.2 (09 November 2023)

- Updated document A-27464-EX from revision 3 to 4.
- Updated document CI-26677 from revision 2 to 3.