



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX ETL 20.0063X** Page 1 of 5 Certificate history:
Status: **Current** Issue No: 3 [Issue 2 \(2023-09-05\)](#)
Date of Issue: 2023-11-28 [Issue 1 \(2021-02-25\)](#)
[Issue 0 \(2020-11-30\)](#)
Applicant: **Clark-Reliance Corp.**
16633 Foltz Pkwy
Strongsville, OH 44149
United States of America
Equipment: **Instrumentation Lights (System: Power Supply and Lights): EPL-100 Jerguson LumaStar (Series); E-EPL-100
EFI Branded LumaStar (Series); EPL-316 Jerguson LumaStar (Series); E-EPL-316 EFI Branded LumaStar
(Series); Jacoby Tarbox Phaeton (Series); Jerguson NightStar (Series); Reliance DuraStar (Series).**
Optional accessory:
Type of Protection: **Power Supply: Ex db [ib] IIB+H2 T4 Gb; Lights: Ex ib IIB+H2 T4 Gb**
Marking: IECEx ETL 20.0063X
(Power Supply): Ex db [ib] IIB+H2 T4 Gb
(Lights): Ex ib IIB+H2 T4 Gb
-40°C ≤ Tamb ≤ +60°C

Approved for issue on behalf of the IECEx
Certification Body:

Todd L. Relyea

Position:

Certification Officer

Signature:
(for printed version)

Date:
(for printed version)

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3933 US Route 11 South
Cortland NY 13045-2995
United States of America

intertek



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Issue No: 3

Manufacturer: **Clark-Reliance Corp.**
16633 Foltz Pkwy
Strongsville, OH 44149
United States of America

Manufacturing locations: **Clark-Reliance Corp.**
16633 Foltz Pkwy
Strongsville, OH 44149
United States of America

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-1:2014](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

[US/ETL/ExTR20.0072/00](#)
[US/ETL/ExTR20.0072/03](#)

[US/ETL/ExTR20.0072/01](#)

[US/ETL/ExTR20.0072/02](#)

Quality Assessment Report:

[GB/ITS/QAR11.0005/08](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

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.

Instrumentation Lights (System: Power Supply and Lights):

EPL-100 Jerguson LumaStar (Series);

E-EPL-100 EFI Branded LumaStar (Series);

EPL-316 Jerguson LumaStar (Series);

E-EPL-316 EFI Branded LumaStar (Series);

Jacoby Tarbox Phaeton (Series);

Jerguson NightStar (Series);

Reliance DuraStar (Series).

SPECIFIC CONDITIONS OF USE: YES as shown below:

“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.

Routine 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



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Equipment (continued):

Ratings: Mains: $U_m = 250V \leq 115VACRMS / 230VACRMS$ (Single Phase)

See Annex.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

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

Annex:

[SFT-IECEX-OP-19f - Annex for IECEx Certificate of Conformity - Clark Reliance.pdf](#)



Annex to IECEx Certificate of Conformity

Certificate No:	IECEX ETL 20.0063X	Issue No. 3
Annex No. 1		

Technical Documents			
Title:	Drawing No.:	Rev. 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
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	E-R-22-3WS6327 or	0	2/6/2019
Resistor, 22 Ohm, 3W SMT6227	E-R-22-3WS6227	0	2/6/2019
Resistor, 180 Ohm, 25W	E-R-180-25WW	0	1/18/2017
Fuse, 125mA 5 x 20 mm DIN or	E-F-DIN-0125-T or	0	10/16/2020
Fuse, 250mA 5 x 20 mm DIN	E-F-DIN-0250-T	2	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

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Intertek Testing Services NA, Inc.
 3933 US Route 11; Cortland, NY
 13045; USA

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Technical Documents			
Title:	Drawing No.:	Rev. Level:	Date:
Lumastar, Flat Glass Illuminator, Aluminum	S-23308	4	10/29/2020
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	10/25/2023

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



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Additional Equipment Information:

The below outlines the associated model numbers:

- 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;
 - 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.