

1 **UNITED KINGDOM CONFORMITY ASSESSMENT**

2 **TYPE EXAMINATION CERTIFICATE**

3 **Product or Protective System Intended for use in Potentially Explosive Atmospheres**

4 **SI 2016:1107 (as amended) – Schedule 3A, Part 6**

3 Type Examination Certificate No.: **EMA22UKEX0100X**

4 Product: **LED luminaires**
Type: PRIMA LED Ex * ** * ** * ** / ** * ** *

5 Manufacturer: **TREVOS, A.S.**

6 Address: **Nová Ves 34 – 51101 Turnov, Czech Republic**

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

8 Element Materials Technology certifies that this category 3 product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Schedule 1 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, SI 2016:1107 (as amended).
The examination and test results are recorded in the confidential report **22 0206610 01**.


9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN IEC 60079-0:2018 EN 60079-31:2014 EN IEC 60079-15:2019 (Ref. only)

Except in respect of those requirements listed at section 18 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 TYPE EXAMINATION CERTIFICATE for UKEX category 3 equipment relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate

12 The marking of this product shall include the following:

 **II 3G Ex nR IIC T6 Gc**
II 3D Ex tc IIIC T70°C Dc

This certificate and its schedules may only be reproduced in its entirety and without change. This certificate is issued in accordance with the Element Materials Technology Ex Certification Scheme.


S P Winsor, Certification Manager

Issue date: 2022-12-23

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13 SCHEDULE TO UK TYPE EXAMINATION CERTIFICATE

14 CERTIFICATE NUMBER EMA22UKEX0100X

15 Description of Product

The LED lighting apparatus PRIMA LED Ex series are composed by several enclosure sizes made by polycarbonate with high mechanical resistance, containing LEDs lighting sources, accessories and feeding apparatus suitable for normal and/or emergency light function.

Permissible range of ambient temperature:

- with emergency back-up source: 0 °C to +35 °C or 0 °C to +40 °C or 0 °C to +45 °C or 0 °C to +50 °C
- without emergency back-up source: -25 °C to +40 °C or -25 °C to +55 °C or -25 °C to +60 °C.
- with non-maintained emergency back-up source: or 0 °C to +50 °C (See tables below).

The degree of enclosure protection according to EN 60529 is IP66.

Type code and technical data

PRIMA LED Ex a.bft PCc cccc/ddd e f g		
a	=	number of LED modules rows (1 or 2)
b	=	length of 2,4 or 5 feet (ft)
cccc	=	lumen flux from 500 to 20000 lm
	=	" " = for NMxh emergency luminaires
ddd	=	CRI and CCT - 830, 840, 850 and 865
	=	" " = for NMxh emergency luminaires
e	=	"DALI" = version with digital dimmable driver DALI
	=	" " = light fitting without digital dimmable driver DALI
f	=	"1F" = light fitting with 1-phase 3 core through-wiring
	=	"3F" = light fitting with 3-phase 5 core through-wiring
	=	" " = light fitting without through-wiring
g	=	"M1h" = light fitting with emergency back-up source, 1-hour operating time
	=	"M3h" = light fitting with emergency back-up source, 3-hours operating time
	=	"NM1h" = light fitting with non-maintained emergency back-up source, 1-hours operating time
	=	"NM3h" = light fitting with non-maintained emergency back-up source, 3-hours operating time
	=	" " = light fitting without emergency back-up source

The following variants are covered by this certificate

Type of the luminaire without emergency back-up source			
Type	Ambient temperature	Supply Voltage and Frequency	System input
PRIMA LED Ex 1.2ft PCc 1600/8xx e	-25 °C ≤Ta≤ +60 °C	220-240V 50/60Hz	11W
PRIMA LED Ex 1.2ft PCc 2200/8xx e	-25 °C ≤Ta≤ +55 °C		16W
PRIMA LED Ex 1.4ft PCc 3200/8xx e	-25 °C ≤Ta≤ +60 °C		23W
PRIMA LED Ex 1.4ft PCc 4400/8xx e	-25 °C ≤Ta≤ +55 °C		31W
PRIMA LED Ex 1.4ft PCc 6400/8xx e	-25 °C ≤Ta≤ +55 °C		44W
PRIMA LED Ex 1.5ft PCc 4000/8xx e	-25 °C ≤Ta≤ +60 °C		27W
PRIMA LED Ex 1.5ft PCc 5500/8xx e	-25 °C ≤Ta≤ +55 °C		38W
PRIMA LED Ex 1.5ft PCc 8000/8xx e	-25 °C ≤Ta≤ +55 °C		53W
PRIMA LED Ex 2.2ft PCc 3200/8xx e	-25 °C ≤Ta≤ +60 °C		22W
PRIMA LED Ex 2.2ft PCc 4400/8xx e	-25 °C ≤Ta≤ +55 °C		31W
PRIMA LED Ex 2.4ft PCc 6400/8xx e	-25 °C ≤Ta≤ +60 °C		43W
PRIMA LED Ex 2.4ft PCc 8800/8xx e	-25 °C ≤Ta≤ +55 °C		60W
PRIMA LED Ex 2.4ft PCc 12800/8xx e	-25 °C ≤Ta≤ +40 °C		85W
PRIMA LED Ex 2.5ft PCc 8000/8xx e	-25 °C ≤Ta≤ +60 °C		54W
PRIMA LED Ex 2.5ft PCc 11000/8xx e	-25 °C ≤Ta≤ +55 °C		71W
PRIMA LED Ex 2.5ft PCc 16000/8xx e	-25 °C ≤Ta≤ +40 °C		106W
PRIMA LED Ex 2.5ft PCc 20000/8xx e	-25 °C ≤Ta≤ +40 °C		118W

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Type of the luminaire with emergency back-up source			
Type	Ambient temperature	Supply Voltage and Frequency	System input
PRIMA LED Ex 1.2ft PCc 1600/8xx e f	0 °C≤Ta≤+45 °C	220-240V 50/60Hz	11W
PRIMA LED Ex 1.2ft PCc 2200/8xx e f	0 °C≤Ta≤+45 °C		16W
PRIMA LED Ex 1.4ft PCc 3200/8xx e f	0 °C≤Ta≤+50 °C		23W
PRIMA LED Ex 1.4ft PCc 4400/8xx e f	0 °C≤Ta≤+50 °C		31W
PRIMA LED Ex 1.5ft PCc 4000/8xx e f	0 °C≤Ta≤+50 °C		27W
PRIMA LED Ex 1.5ft PCc 5500/8xx e f	0 °C≤Ta≤+50 °C		38W
PRIMA LED Ex 2.2ft PCc 3200/8xx e f	0 °C≤Ta≤+40 °C		22W
PRIMA LED Ex 2.2ft PCc 4400/8xx e f	0 °C≤Ta≤+35 °C		31W
PRIMA LED Ex 2.4ft PCc 6400/8xx e f	0 °C≤Ta≤+45 °C		43W
PRIMA LED Ex 2.4ft PCc 8800/8xx e f	0 °C≤Ta≤+40 °C		60W
PRIMA LED Ex 2.5ft PCc 8000/8xx e f	0 °C≤Ta≤+45 °C		54W
PRIMA LED Ex 2.5ft PCc 11000/8xx e f	0 °C≤Ta≤+40 °C		71W

Type of the luminaire with non-maintained emergency back-up source			
Type	Ambient temperature	Supply Voltage and Frequency	System input
PRIMA LED Ex 1.2ft PCc f	0°C≤Ta≤+50°C	220-240V 50/60Hz	2W

Dimension of luminaire			
Type	Length [mm]	Height [mm]	Width [mm]
PRIMA LED Ex 1.2ft PCc 1600/8xx	662	111	145
PRIMA LED Ex 1.2ft PCc 2200/8xx	662	111	145
PRIMA LED Ex 1.4ft PCc 3200/8xx	1272	111	145
PRIMA LED Ex 1.4ft PCc 4400/8xx	1272	111	145
PRIMA LED Ex 1.4ft PCc 6400/8xx	1272	111	145
PRIMA LED Ex 1.5ft PCc 4000/8xx	1572	111	145
PRIMA LED Ex 1.5ft PCc 5500/8xx	1572	111	145
PRIMA LED Ex 1.5ft PCc 8000/8xx	1572	111	145
PRIMA LED Ex 2.2ft PCc 3200/8xx	662	111	145
PRIMA LED Ex 2.2ft PCc 4400/8xx	662	111	145
PRIMA LED Ex 2.4ft PCc 6400/8xx	1272	111	145
PRIMA LED Ex 2.4ft PCc 8800/8xx	1272	111	145
PRIMA LED Ex 2.4ft PCc 12800/8xx	1272	111	145
PRIMA LED Ex 2.5ft PCc 8000/8xx	1572	111	145
PRIMA LED Ex 2.5ft PCc 11000/8xx	1572	111	145
PRIMA LED Ex 2.5ft PCc 16000/8xx	1572	111	145
PRIMA LED Ex 2.5ft PCc 20000/8xx	1572	111	145
PRIMA LED Ex 1.2ft PCc 1600/8xx Mxh	662	111	145
PRIMA LED Ex 1.2ft PCc 2200/8xx Mxh	662	111	145
PRIMA LED Ex 1.4ft PCc 3200/8xx Mxh	1272	111	145
PRIMA LED Ex 1.4ft PCc 4400/8xx Mxh	1272	111	145
PRIMA LED Ex 1.5ft PCc 4000/8xx Mxh	1572	111	145
PRIMA LED Ex 1.5ft PCc 5500/8xx Mxh	1572	111	145
PRIMA LED Ex 2.2ft PCc 3200/8xx Mxh	662	111	145
PRIMA LED Ex 2.2ft PCc 4400/8xx Mxh	662	111	145
PRIMA LED Ex 2.4ft PCc 6400/8xx Mxh	1272	111	145
PRIMA LED Ex 2.4ft PCc 8800/8xx Mxh	1272	111	145
PRIMA LED Ex 2.5ft PCc 8000/8xx Mxh	1572	111	145
PRIMA LED Ex 2.5ft PCc 11000/8xx Mxh	1572	111	145
PRIMA LED Ex 1.2ft PCc NMxh	662	111	145

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Warnings

- DO NOT OPEN WHEN ENERGIZED
- POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Issue 1:

New shortest 2 feet version of LED luminaire, additional version in terms of luminous flux, additional NiCd battery for LED luminaire and new non-maintained emergency version of LED luminaire.

16 Test report No. (associated with this certificate issue): None.

17 Specific Conditions of Use

1. The specific conditions mentioned in the certificates of separately certified components have to be fulfilled.
2. The luminaire must not be opened if the terminal block is voltage-carrying. Change the diffuser if it is cracked.
3. LED components contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person and only with original spare parts.
4. If the gasket is damaged it is necessary to replace it.
5. Replacement of parts affecting explosion protection is prohibited.
6. The opening in the unused cable gland must be sealed with an ATEX plug.
7. Potential electrostatic charging hazard. In potentially explosive environments, the luminaire may only be cleaned with a damp cloth and the person carrying out the cleaning must be earthed.
8. Disconnecting and replacing of the battery in the luminaire is only possible out of the environment with explosion hazard.
9. The recommended fuse rating for continuously wired luminaires is type B; 10 A or 16 A.
10. The luminaire PRIMA LED Ex is approved for single and triple phase continuous wiring. Maximum allowed number of luminaires connected on one phase is listed in the table below.

Luminaire type	Automatic cut-out 10A	Automatic cut-out 16A
1.2ft	18	30
1.4ft	18	30
1.5ft	18	30
2.2ft	18	30
2.4ft	18	30
2.5ft	18	30



Attention is drawn to the operating and installation instructions which may contain useful information in relation to conditions of use.

18 Essential Health and Safety Requirements (Regulations Schedule 1)

In addition to the Essential Health and Safety Requirements covered by the standards listed at item 9, all other requirements are demonstrated in the relevant test reports.

The test reports were considered to satisfy the requirements of Schedule 1 with the exception of Essential Health and Safety Requirements 5 and 6, which were separately satisfied by the content of the label drawings and the instructions.

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19 Drawings and Documents

The list of controlled technical documentation is given in Appendix A to this schedule.

20 Routine Tests

None.

21 Specific Conditions for Manufacture

None.


22 Photographs




23 Details of Markings

TREVOS | TREVOS, a.s.
Nová Ves 34, 511 01, Turnov
www.trevos.cz

PRIMA LED Ex 1.2ft Pcc 1600/840 DALI M1h
220-240V 50/60Hz 11W IP66 Ta 0°C | +60°C

 II 3G Ex nR IIC T6 Gc
II 3D Ex tc IIIC T70°C Dc
EMA22UKEX0100X

Vyr.: 11/2022

IP66 UK CA 

24 Certificate History

Original certificate 2022-12-23 First issue.

This certificate is a consolidated certificate and reflects the latest status of the certification, including all variations and amendments.

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25 Notes to UKCA marking

In respect of UKCA Marking, Element Materials Technology accepts no responsibility for the compliance of the product against all applicable Regulations in all applications.

26 Notes to this certificate

Element Materials Technology certification reference: TRA-060179-00, (GU-TUIQ-0045/TRVQ).

Throughout this certificate, the date format yyyy-mm-dd (year-month-day) is used.

27 Conditions for the validity of this certificate

This certificate remains valid for so long as:

- (i) The equipment listed in section 4 is manufactured in accordance with the documents listed in Appendix A of this certificate.
- (ii) The standards listed in section 9 of this certificate continue to satisfy the Essential Health and Safety Requirements of Schedule 1 of the Regulations SI 2016:1107 (as amended by SI 2019:696) and the generally acknowledged state of the art (e.g. as determined by the publishers of those standards).

APPENDIX A - TECHNICAL DOCUMENTS

Title:	Drawing No.:	Rev. Level:	Date:
Element list of scheduled drawings for this certificate	Scheduled drawing list for EMA22UKEX0100X	1	2022-12-22