

(1) **Statement of Conformity**

(2) Equipment and protective systems intended for use in potentially explosive atmospheres, **Directive 2014/34/EU**



(3) **Statement of Conformity Number:** TÜV CY 22 ATEX 0206610 X Issue: 02

(4) for the equipment: LED luminaires
Type: PRIMA LED Ex * ** * ** * ** */ ** * ** * ** *

(5) of the manufacturer: TREVOS, A.S.

(6) Address: Nová Ves 34 – 51101 Turnov
CZECH REPUBLIC

Order number: 0206610

Date of issue: 2023-03-10

(7) This equipment or protective system and any acceptable variation thereto are specified in the schedule to this statement of conformity and the documents therein referred to.

(8) TÜV CYPRUS Ltd certifies that this 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 systems intended for use in potentially explosive atmospheres given in Annex II to the Directive. The examination and test results are recorded in the confidential report No. 23 0206610.


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

The following were used for reference:
EN IEC 60079-15:2019

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This statement of conformity relates only to the design, examination and tests of the specified equipment in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

(12) The marking of the equipment or protective system must include the following:

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

TÜV CYPRUS Ltd (TUV NORD Group),

The head of competent body,


D. Demosthenous

Accredited by CYS-CYSAB
Certificate No. C 004-2



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(13) **SCHEDULE**

(14) **Statement of Conformity No. TÜV CY 22 ATEX 0206610 X Issue 02**

(15) Description of equipment

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
or
" " = for NMxh emergency luminaires

ddd = CRI and CCT - 830, 840, 850 and 865
or
" " = for NMxh emergency luminaires

e = "DALI" = version with digital dimmable driver DALI
or
" " = light fitting without digital dimmable driver DALI

f = "1F" = light fitting with 1-phase 3 core through-wiring
or
"3F" = light fitting with 3-phase 5 core through-wiring
or
" " = light fitting without through-wiring

g = "M1h" = light fitting with emergency back-up source, 1-hour operating time
or
"M3h" = light fitting with emergency back-up source, 3-hours operating time
or
"NM1h" = light fitting with non-maintained emergency back-up source, 1-hours operating time

or
"NM3h" = light fitting with non-maintained emergency back-up source, 3-hours operating time
or
" " = 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	→	$-25^{\circ}\text{C} \leq T_{a} \leq +60^{\circ}\text{C}$	→	11W
PRIMA LED Ex 1.2ft PCc 2200/8xx e	→	$-25^{\circ}\text{C} \leq T_{a} \leq +55^{\circ}\text{C}$	→	16W
PRIMA LED Ex 1.4ft PCc 3200/8xx e	→	$-25^{\circ}\text{C} \leq T_{a} \leq +60^{\circ}\text{C}$	→	23W
PRIMA LED Ex 1.4ft PCc 4400/8xx e	→	$-25^{\circ}\text{C} \leq T_{a} \leq +55^{\circ}\text{C}$	→	31W
PRIMA LED Ex 1.4ft PCc 6400/8xx e	→	$-25^{\circ}\text{C} \leq T_{a} \leq +55^{\circ}\text{C}$	→	44W
PRIMA LED Ex 1.5ft PCc 4000/8xx e	→	$-25^{\circ}\text{C} \leq T_{a} \leq +60^{\circ}\text{C}$	→	27W
PRIMA LED Ex 1.5ft PCc 5500/8xx e	→	$-25^{\circ}\text{C} \leq T_{a} \leq +55^{\circ}\text{C}$	→	38W
PRIMA LED Ex 1.5ft PCc 8000/8xx e	→	$-25^{\circ}\text{C} \leq T_{a} \leq +55^{\circ}\text{C}$	→	53W
PRIMA LED Ex 2.2ft PCc 3200/8xx e	→	$-25^{\circ}\text{C} \leq T_{a} \leq +60^{\circ}\text{C}$	→	22W
PRIMA LED Ex 2.2ft PCc 4400/8xx e	→	$-25^{\circ}\text{C} \leq T_{a} \leq +55^{\circ}\text{C}$	→	31W
PRIMA LED Ex 2.4ft PCc 6400/8xx e	→	$-25^{\circ}\text{C} \leq T_{a} \leq +60^{\circ}\text{C}$	→	43W
PRIMA LED Ex 2.4ft PCc 8800/8xx e	→	$-25^{\circ}\text{C} \leq T_{a} \leq +55^{\circ}\text{C}$	→	60W
PRIMA LED Ex 2.4ft PCc 12800/8xx e	→	$-25^{\circ}\text{C} \leq T_{a} \leq +40^{\circ}\text{C}$	→	85W
PRIMA LED Ex 2.5ft PCc 8000/8xx e	→	$-25^{\circ}\text{C} \leq T_{a} \leq +60^{\circ}\text{C}$	→	54W
PRIMA LED Ex 2.5ft PCc 11000/8xx e	→	$-25^{\circ}\text{C} \leq T_{a} \leq +55^{\circ}\text{C}$	→	71W
PRIMA LED Ex 2.5ft PCc 16000/8xx e	→	$-25^{\circ}\text{C} \leq T_{a} \leq +40^{\circ}\text{C}$	→	106W
PRIMA LED Ex 2.5ft PCc 20000/8xx e	→	$-25^{\circ}\text{C} \leq T_{a} \leq +40^{\circ}\text{C}$	→	118W

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	→	$0^{\circ}\text{C} \leq T_{a} \leq +45^{\circ}\text{C}$	→	11W
PRIMA LED Ex 1.2ft PCc 2200/8xx e f	→	$0^{\circ}\text{C} \leq T_{a} \leq +45^{\circ}\text{C}$	→	16W
PRIMA LED Ex 1.4ft PCc 3200/8xx e f	→	$0^{\circ}\text{C} \leq T_{a} \leq +50^{\circ}\text{C}$	→	23W
PRIMA LED Ex 1.4ft PCc 4400/8xx e f	→	$0^{\circ}\text{C} \leq T_{a} \leq +50^{\circ}\text{C}$	→	31W
PRIMA LED Ex 1.5ft PCc 4000/8xx e f	→	$0^{\circ}\text{C} \leq T_{a} \leq +50^{\circ}\text{C}$	→	27W
PRIMA LED Ex 1.5ft PCc 5500/8xx e f	→	$0^{\circ}\text{C} \leq T_{a} \leq +50^{\circ}\text{C}$	→	38W
PRIMA LED Ex 2.2ft PCc 3200/8xx e f	→	$0^{\circ}\text{C} \leq T_{a} \leq +40^{\circ}\text{C}$	→	22W
PRIMA LED Ex 2.2ft PCc 4400/8xx e f	→	$0^{\circ}\text{C} \leq T_{a} \leq +35^{\circ}\text{C}$	→	31W
PRIMA LED Ex 2.4ft PCc 6400/8xx e f	→	$0^{\circ}\text{C} \leq T_{a} \leq +45^{\circ}\text{C}$	→	43W
PRIMA LED Ex 2.4ft PCc 8800/8xx e f	→	$0^{\circ}\text{C} \leq T_{a} \leq +40^{\circ}\text{C}$	→	60W
PRIMA LED Ex 2.5ft PCc 8000/8xx e f	→	$0^{\circ}\text{C} \leq T_{a} \leq +45^{\circ}\text{C}$	→	54W
PRIMA LED Ex 2.5ft PCc 11000/8xx e f	→	$0^{\circ}\text{C} \leq T_{a} \leq +40^{\circ}\text{C}$	→	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 NMxh	→	$0^{\circ}\text{C} \leq T_{a} \leq +50^{\circ}\text{C}$	→	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

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.

Issue 2:

New label on the product.

(16) Test documents are listed in the test report No. 23 0206610.

(17) Special conditions for safe use

- The specific conditions mentioned in the certificates of separately certified components have to be fulfilled.
- The luminaire must not be opened if the terminal block is voltage-carrying. Change the diffuser if it is cracked.
- 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.
- If the gasket is damaged it is necessary to replace it.
- Replacement of parts affecting explosion protection is prohibited.
- The opening in the unused cable gland must be sealed with an ATEX plug.
- 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.
- Disconnecting and replacing of the battery in the luminaire is only possible out of the environment with explosion hazard.
- The recommended fuse rating for continuously wired luminaires is type B; 10 A or 16 A.
- 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

(18) Essential Health and Safety Requirements

This statement of conformity covers only the Essential Health and Safety Requirements related to the Directive 2014/34/EU.