



(1) **EC-TYPE EXAMINATION CERTIFICATE**

- (2) Components intended for use in potentially explosive atmospheres - Directive 94/9/EC
- (3) EC-Type Examination Certificate Number: **KEMA 99ATEX4934-U**
- (4) Components: **Enclosures for luminaires with tubular fluorescent lamps Type 500290, Type 500490 and Type 500690**
- (5) Applicant: **Chalmit Lighting**
- (6) Address: **388 Hillington Road, Glasgow G52 4BL, Scotland**
- (7) These components and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) KEMA, notified body number 0344 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that these components has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of components intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report no. 94934.

- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- EN 50014 : 1992 + prA1      EN 50019 : 1994 + prA1**
- (10) The sign "U" placed after the certificate number indicates that this certificate describes components and must not be mistaken for a certificate intended for an equipment or protective system. This EC-Type Examination Certificate may be used as a basis for certification of an equipment or protective system.
- (11) This EC-Type Examination Certificate relates only to the design and construction of the specified components. If applicable, further requirements of this Directive apply to the manufacture and supply of these components.
- (12) The marking of the components shall include the following:



**EEx e II**

Arnhem, 8 December 1999  
by order of the Board of Directors of N.V. KEMA

C.M. Boschloo  
Certification Manager

\* This Certificate may only be reproduced in its entirety and without any change



**SCHEDULE**

(13)

(14)

**to EC-Type Examination Certificate KEMA 99ATEX4934 U**

**(15) Description**

Enclosures for luminaires with tubular fluorescent lamps Type 500290, Type 500490 and Type 500690 consisting of a base, a transparent cover and a closing profile, made of non-metallic material in type of explosion protection increased safety "e". The enclosures are provided with two cable entry openings at each end.

Ambient temperature range : -20 °C ... +40 °C.  
 Operating temperature range diffuser : -20 °C ... +60 °C.  
 Operating temperature range base : -20 °C ... +60 °C.

**Installation instruction**

The degree of protection of at least IP 54 to EN 60529 is only achieved if suitable certified cable entries and blanking elements are used that are suitable for the application and correctly installed.

**(16) Report**

No. 94934

**(15) Special conditions for safe use**

None

**(18) Essential Health and Safety Requirements**

Essential health and safety requirements not covered by standards listed at (9)	
Clause	Subject
1.0.6.b	Instructions for use

These essential health and safety requirements are examined and the results are laid down in the report listed at (16).

**(19) Test documentation**

1. Certificate of Conformity KEMA No. Ex-97.D.2260 U

2. Description (4 pages) signed  
04.12.1999

3. Drawing No. A6751-01 )  
                   D1937-01 ) 04.12.1999  
                   D1938-01 )  
                   B952-00 )  
                   B953-00 )  
                   C654-00 )  
                   C655-00 )  
                   D1664-01 ) 19.10.1999  
                   D1712-01 )  
                   D1713-01 )  
                   D1617-02 )  
                   D1618-02 )

## AMENDMENT 1

to EC-Type Examination Certificate KEMA 99ATEX4934 U

Manufacturer: **Chalmit Lighting**

Adress: **388 Hillington Road, Glasgow G52 4BL, Scotland**

### Description

In future the Enclosures for luminaires with tubular fluorescent lamps Types 500290, 500490 and 500690 may also be constructed in accordance with the documentation stated below.

The modification concerns the mechanical construction.

### Special conditions for safe use

For an ambient temperature range of -20 °C ... +55 °C, the enclosure type 500290 may only be used in places where there is a low risk of mechanical danger.

All other data remain unchanged.

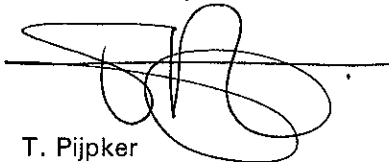
### Test documentation

1. Drawing No. A6751, rev. 03     )  
                  D1617, rev. 03     )  
                  D1618, rev. 03     )  
                  D1664, rev. 02     )  
                  D1937, rev. 02     )  
                  D1938, rev. 02     )  
                  D1712, rev. 02     )  
                  D1713, rev. 02     )

signed

13.02.2001

Arnhem, 27 November 2001  
KEMA Quality B.V.



T. Pijpker  
Certification Manager

[2003634]

## AMENDMENT 2

to EC-Type Examination Certificate KEMA 99ATEX4934 U

Manufacturer: **Chalmit Lighting Ltd.**

Address: **388 Hillington Road, Glasgow G52 4BL, Scotland**

### Description

The range of Enclosures for luminaires with tubular fluorescent lamps Types 500290, 500490 and 500690 is extended with Types 500190, 500390 and 500590.

The enclosure body may also be made of an alternative material.

### Special conditions for safe use

For an ambient temperature range of -20 °C ... +55 °C, the enclosure types 500190 and 500290 assembled with a body marked with W shall not be used in places where there is a high risk of mechanical danger.

### Routine tests

None.

### Test documentation

	<u>dated</u>
Drawing no. D1617, issue 4	28.12.03
D1618, issue 4	28.11.03
D1664, issue 3	27.11.03

Arnhem, 23 January 2004

KEMA Quality B.V.



C.G. van Es  
Certification Manager