



1 **EC - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**

3 EC - Type Examination Certificate Number: **Baseefa04ATEX0245**

4 Equipment or Protective System: **A NEXLED Luminaire**

5 Manufacturer: **Chalmit Lighting**

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

7 This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Baseefa (2001) Ltd. Notified body number 1180, in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, 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 confidential Report No. **04(C)0393**

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0: 2004 EN 60079-7: 2003 EN 60079-1: 2004 EN 50281-1-1: 1998

except in respect of those requirements listed at item 18 of the Schedule.

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 EC - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protective system. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12 The marking of the equipment or protective system shall include the following :

Ex II 2 G Ex de IIC T4 (T_{amb} = - 45°C to + 55°C)
Ex II 2 D T100°C

This certificate may only be reproduced in its entirety, without any change, schedule included.

Baseefa (2001) Ltd. Customer Reference No. **0068**

Project File No. **04/0393**

This certificate is granted subject to the general terms and conditions of Baseefa (2001) Ltd. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

Baseefa (2001) Ltd.

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R S SINCLAIR
DIRECTOR
On behalf of
Baseefa (2001) Ltd.



13

Schedule

14

Certificate Number Baseefa04ATEX0245

15 Description of Equipment or Protective System

A NEXLED Luminaire comprises a cast aluminium flat rectangular base and a cover with a glass diffuser. The diffuser is attached to the cover with two screw clips and the cover is attached to the base with four screws. Ingress protection is provided with a silicone rubber gasket between the base and the diffuser.

The internal arrangement comprises up to eight 1W light emitting diodes mounted onto an aluminium heatsink or two LED's without a heatsink, an electronic control module and fuse within a cylindrical flameproof enclosure, and terminal strips.

The luminaire is rated up to 254V a.c 2W to 8W depending upon the number of LED's fitted.

The enclosure is provided with cable entry holes which must be fitted with ATEX EEx e approved cable glands which maintain the ingress protection of the enclosure. Unused entries must be fitted with ATEX EEx e approved stopping plugs.

16 Report Number

Baseefa certification report 04(C)0393

17 Special Conditions for Safe Use

None

18 Essential Health and Safety Requirements

All relevant Essential Health and Safety Requirements are covered by the standards listed at item 9.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
D2658	1	-	08.09.04	NEXLED Zone 1 - General Assembly
D2658	2	-	08.09.04	NEXLED Zone 1 - Wiring Details
D2658	3	-	08.09.04	NEXLED Zone 1 - LED and Driver Details



1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**

- 3 Supplementary EC - Type Examination Certificate Number: **Baseefa04ATEX0245/1**
- 4 Equipment or Protective System: **A NEXLED Luminaire**
- 5 Manufacturer: **Chalmit Lighting**
- 6 Address: **388 Hillington Road, Glasgow, G52 4BL**
- 7 This supplementary certificate extends EC - Type Examination Certificate No. Baseefa04ATEX0245 to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This supplementary certificate shall be held with the original certificate.

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Baseefa Customer Reference No. 0068

Project File No. 05/0479

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On behalf of
Baseefa (2001) Ltd.



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Certificate Number Baseefa04ATEX0245/1

15 Description of the variation to the Equipment or Protective System

Variation 1.1

To include an emergency version with a NiCd rechargeable battery pack and encapsulated control gear covered by Baseefa06ATEX0083U. The control gear monitors the temperature of the battery pack and reduces the charge to safe levels if the temperature drops below 5°C.

The coding of the emergency version is:

Ⓢ II 2G Ex e ib mb IIC T4 ($T_{amb} = -20^{\circ}\text{C}$ to $+55^{\circ}\text{C}$)

Ⓢ II 2D T100°C

Variation 1.2

A heater may be wrapped around the battery pack. The control gear monitors the temperature of the battery pack and turns on the heater, if the temperature drops below 5°C.

With a heater fitted the coding is:

Ⓢ II 2G Ex e ib mb IIC T4 ($T_{amb} = -45^{\circ}\text{C}$ to $+55^{\circ}\text{C}$)

Ⓢ II 2D T100°C

16 Report Number

05(C)0479

17 Special Conditions for Safe Use

None

18 Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
D6070	1-2	0	13/3/06	NEXLED emergency general arrangement

Certificate Number
Baseefa04ATEX0245/2



Issued 10th May 2007
Page 1 of 2

1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**

3 Supplementary EC - Type Examination Certificate Number: **Baseefa04ATEX0245/2**

4 Equipment or Protective System: **A NEXLED Luminaire**

5 Manufacturer: **Chalmit Lighting**

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

7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa04ATEX0245 to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

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Baseefa Customer Reference No. **0068**

Project File No. **07/0391**

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On behalf of
Baseefa (2001) Ltd.

Re-issued 7th August 2007



13

Schedule

14

Certificate Number Baseefa04ATEX0245/2

15 **Description of the variation to the Equipment or Protective System**

Variation 2.1

To allow the use of alternative control gear covered by certificate Baseefa06ATEX0322U.

Variation 2.2

To recognise that the battery packs, without additional encapsulant, comply with the requirements of Clause 5.7.2 of EN 60079-7: 2007 and therefore may be used in the arrangement as detailed in the scheduled drawing.

Variation 2.3

To allow a non-emergency version using the control gear covered by certificate Baseefa06ATEX0322U but with the batteries, heater and thermistor removed. The coding for the non-emergency version is:

⊕ II 2G Ex e mb II T4 (T_{amb} -50°C to 55°C)

⊕ II 2D T100°C

16 **Report Number**

None

17 **Special Conditions for Safe Use**

None

18 **Essential Health and Safety Requirements**

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 **Drawings and Documents**

Number	Sheet	Issue	Date	Description
D6050	1-3	0	5/3/07	NEXLED emergency general arrangement including alternative control gear



1 **SUPPLEMENTARY TYPE EXAMINATION CERTIFICATE**

2 **Equipment Intended for use in Potentially Explosive Atmospheres**
Directive 94/9/EC

3 Supplementary Type Examination Certificate Number: **Baseefa04ATEX0245/3**

4 Equipment: **A NEXLED Luminaire**

5 Manufacturer: **Chalmit Lighting Limited**

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

7 This supplementary certificate extends Type Examination Certificate No. BAS99ATEX3012 to apply to equipment designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This supplementary certificate shall be held with the original certificate.

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Baseefa Customer Reference No. **0068**

Project File No. **07/0951**

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A handwritten signature in blue ink, appearing to read "R S Sinclair".

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Schedule

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Certificate Number Baseefa04ATEX0245/3

15 **Description of the variation to the Equipment**

Variation 3.1

Addition of an alternative High Pressure die cast base.

16 **Report Number**

None

17 **Special Conditions for Safe Use**

None

18 **Essential Health and Safety Requirements**

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 **Drawings and Documents**

Number	Sheet	Issue	Date	Description
D6050	1 of 3	1	29/10/2007	NEXLED Certification Drawings
D6050	2 of 3	1	29/10/2007	NEXLED Certification Drawings
D6050	3 of 3	1	29/10/2007	NEXLED Certification Drawings



1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**

3 Supplementary EC - Type Examination Certificate Number: **Baseefa04ATEX0245/4**

4 Equipment or Protective System: **A NEXLED Luminaire**

5 Manufacturer: **Chalmit Lighting**

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

7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa04ATEX0245 to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

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Baseefa Customer Reference No. 0068

Project File No. 09/0208

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R S SINCLAIR
DIRECTOR
On behalf of
Baseefa



13

Schedule

14

Certificate Number Baseefa04ATEX0245/4

15 Description of the variation to the Equipment or Protective System

Variation 4.1

To confirm that the Nexled Luminaire has been reviewed against the requirements of IEC 60079-0: 2007, EN 60079-7: 2007, EN 60079-11:2007 and EN 61241-1: 2004 in respect of the differences from EN 60079-0: 2004, EN 60079-7: 2003 and EN 50281-1-1: 1998 and that none of these differences affect this equipment. EN 60079-18: 2004 remains unchanged.

16 Report Number

GB/BAS/ExTR.09.0086/00

17 Special Conditions for Safe Use

None

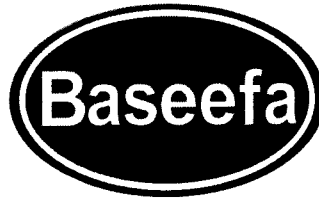
18 Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
D6050	1-3	2	22/5/09	General construction drawing

These drawings are common to and held with IECEx BAS09.0062



1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**

3 Supplementary EC - Type Examination Certificate Number: **Baseefa04ATEX0245/5**

4 Equipment or Protective System: **A NEXLED Luminaire**

5 Manufacturer: **Chalmit Lighting**

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

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa04ATEX0245** to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

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Baseefa Customer Reference No. **0068**

Project File No. **11/0977**

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DIRECTOR
On behalf of
Baseefa



Schedule

13

14

Certificate Number Baseefa04ATEX0245/5

15 **Description of the variation to the Equipment or Protective System**

Variation 5.1

To permit a 24Vdc/ac version.

Variation 5.2

To confirm that the Nexled Luminaire has been reviewed against the requirements of IEC 60079-1: 2007 in respect of the differences from EN 60079-1: 2004.

16 **Report Number**

Baseefa certification report 11(C)0977.

17 **Specific Conditions of Use**

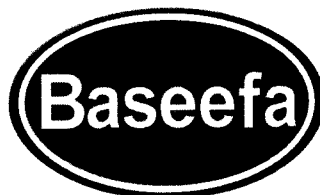
None.

18 **Essential Health and Safety Requirements**

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 **Drawings and Documents**

Number	Sheet	Issue	Date	Description
D2658	1 to 3 inc.	01	01.12.11	NEXLED Zone 1 General Assembly



1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**

3 Supplementary EC - Type Examination Certificate Number: **Baseefa04ATEX0245/6**

4 Equipment or Protective System: **A NEXLED Luminaire**

5 Manufacturer: **Chalmit Lighting**

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

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa04ATEX0245** to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

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Baseefa Customer Reference No. **0068**

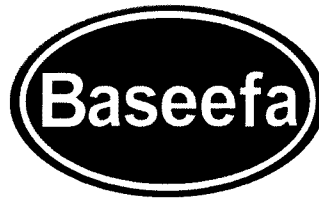
Project File No. **12/0169**

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DIRECTOR
On behalf of
Baseefa



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Schedule

14

Certificate Number Baseefa04ATEX0245/6

15

Description of the variation to the Equipment or Protective System

Variation 6.1

To permit an alternative designation of Ex7000D LED in the name of INOTEC.

Variation 6.2

Minor clarification of certification label marking.

16

Report Number

None.

17

Specific Conditions of Use

None.

18

Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19

Drawings and Documents

Number	Sheet	Issue	Date	Description
H024593	1	0	30.05.12	Alternative Certification Label
H025021	1	0	30.05.12	Certification Label

1 SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE

**2 Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**

- 3** Supplementary EC - Type Examination Certificate Number: **Baseefa04ATEX0245/7**
- 4** Equipment or Protective System: **A NEXLED Luminaire**
- 5** Manufacturer: **Chalmit Lighting**
- 6** Address: **388 Hillington Road, Glasgow, G52 4BL**
- 7** This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa04ATEX0245** to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This supplementary certificate shall be held with the original certificate.

Baseefa Customer Reference No. 0068

Project File No. 15/0940

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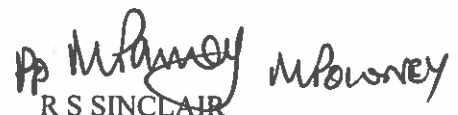
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R S SINCLAIR

GENERAL MANAGER

On behalf of SGS Baseefa Limited

13 **Schedule**

14 **Certificate Number Baseefa04ATEX0254/7**

15 **Description of the variation to the Equipment or Protective System**

Variation 7.1

To permit the option of a flameproof isolation switch to EPS14ATEX1765U.

When the isolation switch is provided the luminaire is marked:-

For the emergency Luminaires:-

Ex db e ib mb IIC T4 Gb Ta -45°C to +55°C

Ex tb IIIC T95°C Db IP66/67

110-254Vac/dc

For the non-emergency Luminaires:-

Ex db e mb IIC T4 Gb Ta -45°C to +55°C

Ex tb IIIC T95°C Db IP66/67

110-254Vac/dc

16 **Report Number**

GB/BAS/ExTR16.0007/00.

17 **Specific Conditions of Use**

None.

18 **Essential Health and Safety Requirements**

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 **Drawings and Documents**

Number	Sheet	Issue	Date	Description
H036000	1	-	12.01.16	NEXLED Isolation Switch Arrangement
H036000	2	-	12.01.16	NEXLED Isolation Switch Wiring Diagram

These drawings are common to and held with IECEx BAS 09.0062