



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: **Baseefa04ATEX0155**

4 Equipment or Protective System: **Evolution II Luminaire**

5 Manufacturer: **Chalmit Lighting**

6 Address: **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. **03(C)0677**

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

EN 50014: 1997 + Amendments 1 & 2
EN 50019: 2000

EN 50018: 2000 + Amendment 1
EN 50281-1-1: 1998 + Amendment 1

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 2GD EEx de IIB T* (T_{amb} = -20°C to + °C) * See schedule

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

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

Project File No. **03/0677**

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.

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

13

Schedule

14

Certificate Number Baseefa04ATEX0155

15 Description of Equipment or Protective System

An Evolution II Luminaire comprises a rectangular lamp housing with an integral increased safety control gear housing at one end.

A partition wall between the enclosures is fitted with a capacitor housing and a potted ignitor/lamp holder housing. Cemented into a recess in the lamp housing is a glass window which is secured with a frame and socket head screws. The screws heads are filled with potting compound to prevent removal. An optional wire guard or anti glare shield may be fitted.

The increased safety enclosure is fitted with a ballast and either two 6 way MK6 terminal strips or an Mk3 and an MK6 terminal strip to SIRA01ATEX3248U, and SIRA01ATEX3249U, coded $\text{\textcircled{X}}$ II 2GD EEx e II.

The luminaire is rated up to 277V 600W and can be fitted with tungsten halogen, SON/T or MBI/T lamps as indicated below.

Lamp Type	Wattage	Voltage (V a.c.)	Temperature Classification	Maximum Temperature for Dust Atmospheres	Ambient Temperature Range	Cable Temperature Rise (K)	Delay Before Opening Time (Minutes)
Tungsten Halogen E40 Lampholder	Up to 500W	100-277	T3	195°C	-20°C to +40°C	50	15
Tungsten Halogen R7S Lampholder	Up to 500W	100-277	T3	195°C	-20°C to +55°C	40	
HPS SON/T	150W	110-277 50/60 HZ	T4	130°C	-20°C to +40°C	40	
	250W		T3	175°C	-20°C to +55°C	35	
			T4	130°C	-20°C to +40°C	40	
			T3	175°C	-20°C to +55°C	35	
			T3	175°C	-20°C to +55°C	40	
400W	T3		195°C	-20°C to +35°C	55		
MBI (MBI/T)	150W		T4	130°C	-20°C to +40°C	40	
	250W		T3	175°C	-20°C to +55°C	35	
			T4	130°C	-20°C to +40°C	40	
			T3	175°C	-20°C to +55°C	35	
			T3	175°C	-20°C to +55°C	40	
400W	T3		175°C	-20°C to +55°C	40		

16 Report Number

Baseefa Certification Report 03(C)0677

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
D2632	1	-	05.04.04	General Assembly – Evolution II
D2632	2	-	05.04.04	General Assembly – Evolution II
D2632	3	-	05.04.04	General Assembly – Evolution II
*B1314	1 of 1	-	11.12.02	Capacitor Assembly with Linebush
*B1315	1 of 1	-	11.12.02	Capacitor Assembly with potted Cables

* These drawings are common to certificate Baseefa04ATEX0192.



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: **Baseefa04ATEX0155/1**

4 Equipment or Protective System: **Evolution II Luminaire**

5 Manufacturer: **Chalmit Lighting**

6 Address: **Glasgow, G52 4BL**

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa04ATEX0155** 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.

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

Baseefa (2001) Ltd. Customer Reference No. 0068

Project File No. 03/0677

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

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



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Schedule

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Certificate Number Baseefa04ATEX0155/1X

15

Description of the variation to the Equipment or Protective System

Variation 1.1

To permit a larger increased safety enclosure fitted with a step up toroidal transformer to provide a low voltage version. The luminaire is rated up to 120V 400W and can be fitted with SON/T or MBI/T lamps as indicated below.

Lamp Type	Wattage	Voltage (V a.c.)	Temperature Classification	Maximum Temperature for Dust Atmospheres	Ambient Temperature Range	Cable Temperature Rise (K)	Delay Before Opening Time (Minutes)
HPS SON/T	150W	110-120 50/60 HZ	T4	130°C	-20°C to +40°C	40	15
			T3	150°C	-20°C to +55°C	35	
	250W		T4	130°C	-20°C to +40°C	40	
			T3	150°C	-20°C to +55°C	35	
MBI (MBI/T)	150W		T4	130°C	-20°C to +40°C	40	
			T3	150°C	-20°C to +55°C	35	
	250W		T4	130°C	-20°C to +40°C	40	
			T3	150°C	-20°C to +55°C	35	
400W	T3	175°C	-20°C to +55°C	40			

16

Report Number

Baseefa Certification Report 03(C)0677

17

Special Condition for Safe Use

The low voltage luminaires must be mounted with the lamp pointing horizontally $\pm 10^\circ$.

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
D2632	4	-	05.04.04	General Assembly – Evolution II - Low Voltage



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: Baseefa04ATEX0155/2

4 Equipment or Protective System: Evolution II Luminaire

5 Manufacturer: Chalmit Lighting

6 Address: Glasgow, G52 4BL

7 This supplementary certificate extends EC - Type Examination Certificate No. Baseefa04ATEX0155 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.

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

Baseefa (2001) Ltd. Customer Reference No. 0068

Project File No. 04/0664

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Certificate Number Baseefa04ATEX0155/2

15

Description of the variation to the Equipment or Protective System

Variation 2.1

Increase in the number of ballast terminals under SIRA01ATEX3248U to a maximum of seven.
The maximum input voltage is 275V when terminals to SIRA01ATEX3248U are used.

16

Report Number

None.

17

Special Condition for Safe Use

None additional to those listed previously.

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
D2632	1 to 4	1	09.09.04	General Assembly – Evolution II



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: **Baseefa04ATEX0155/3**

4 Equipment or Protective System: **Evolution II Luminaire**

5 Manufacturer: **Chalmit Lighting**

6 Address: **Glasgow, G52 4BL**

7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa04ATEX0155 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.

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

Baseefa Customer Reference No. 0068

Project File No. 05/0259

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Schedule

14

Certificate Number Baseefa04ATEX0155/3

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

Variation 3.1

To increase the glass thickness from 10mm to 12mm.

16 **Report Number**

None.

17 **Special Condition for Safe Use**

None additional to those listed previously.

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
D2632	1 to 4	2	29.03.05	General Assembly – Evolution II



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 **See Schedule**
Number:
- 4 Equipment or protective system: **See Schedule**
- 5 Manufacturer: **Chalmit Lighting**
- 6 Address: **Glasgow, G52 4BL**

7 This supplementary certificate extends the EC - Type Examination Certificates listed in the Schedule to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedules of the said Certificates but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

A copy of this Supplementary Certificate shall be attached to each of the original Certificates.

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


Baseefa Customer Reference No. **0068**

Project File No. **06/0355**

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On behalf of
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Schedule

Description of the variation to the Equipment or Protective System

To allow the use of ballasts and transformers manufactured by any alternative supplier meeting the original specifications.

Certificate No.	Supplement No.	Equipment Type
Baseefa04ATEX0155	4	Evolution II Luminaire
BAS01ATEX2270	3	Universal Gearbox
BAS98ATEX2372	5	Evolution (200 Series Mk III) Floodlight IIB
BAS98ATEX2373	5	Evolution (200 Series Mk III) Floodlight IIC

Report No.

None

Special Conditions for Safe Use

None

Essential Health and Safety Requirements

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

Drawings and Documents

Number	Sheet	Issue	Date	Description
B1766	1 of 1	-	12/14/2005	Ballast and Transformer Manufacturing Detail

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: **Baseefa04ATEX0155/5**

4 Equipment or Protective System: **Evolution II Luminaire**

5 Manufacturer: **Chalmit Lighting**

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

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa04ATEX0155** 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.

8 Item 9 of the original Certificate is replaced by “Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN60079-0: 2012 EN60079-1: 2007 EN60079-7: 2007 EN 60079-31: 2009 EN60079-18: 2009
except in respect of those requirements listed at item 18 of the Schedule.”

9 The marking of the equipment has changed from the original Certificate and shall include the following:

 **II 2 GD See schedule**

This certificate shall be held with the original certificate.

Baseefa Customer Reference No. **0068**

Project File No. **09/0560**

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GENERAL MANAGER

On behalf of SGS Baseefa Limited

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Schedule

14

Certificate Number Baseefa04ATEX0155/5

15 Description of the variation to the Equipment or Protective System

Variation 5.1

To confirm that the equipment covered by this certificate has been reviewed against the requirements of EN 60079-0: 2012, EN 60079-1: 2007, EN 60079-7: 2007 and EN60079-31: 2009 in respect of the differences from the standards to which this certificate was issued; none of these differences affect this equipment, other than the code marking requirements which have been addressed.

The luminaire is coded.

Ex d e IIB T* Gb Ta -20°C to + ** °C

Ex tb IIIC T*°C Db IP67 Ta -20°C to + ** °C

* See previous issues of this certificate

Variation 5.2

To note the use of a ballast to Baseefa11ATEX0108U and subsequent change of marking.

The luminaire is coded.

Ex d e mb IIB T* Gb Ta -20°C to + ** °C

Ex tb IIIC T*°C Db IP67 Ta -20°C to + ** °C

* See previous issues of this certificate

Variation 5.3

To note deletion of the line bushing to PTB97ATEX1047U and of the toroidal transformer.

16 Report Number

GB/BAS/ExTR 12.0052/00

17 Specific Conditions for Use

None additional to those listed previously.

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
*D2632	1-4 inc.	03	08.10.12	General Assembly - Evolution II
**B1314	1	01	18.10.12	Capacitor Assembly with Linebush

Drawing D1315 is no longer a drawing associated with this certificate.

* This drawing is common to and held with IECEx BAS 05.0045X

** This drawing is common to, BAS98ATEX2372, BAS98ATEX2373, Baseefa04ATEX0192, IECEx BAS12.0042, IECEx BAS12.0043, IECEx BAS05.0045X, and IECEx BAS05.0044X and held with IECEx BAS12.0042.

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: Baseefa04ATEX0155/6

4 Equipment or Protective System: Evolution II Luminaire

5 Manufacturer: Chalmit Lighting

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

7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa04ATEX0155 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. 14/0155

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Schedule

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Certificate Number Baseefa00ATEX0155/6

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

Variation 6

To allow the substitution of the existing potting compounds with a two-part potting compound in the capacitor and ignitor housings.

16 **Report Number**

GB/BAS/ExTR14.0109/00 held with IECEx BAS 12.0043.

17 **Specific Conditions of Use**

None additional to those listed previously.

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	Sheets	Issue	Date	Description
D2632*	1-4	4	31/3/14	Evolution II
B1315**	1	1	27/3/14	Evolution 'B' Type Capacitor with Potted Cables

* This drawing is common to IEC BAS 05.0045X but held on this certificate.

** Drawing B1315 is common to BAS98ATEX2372, BAS98ATEX2373, Baseefa04ATEX0192, IECEx BAS 05.0044X, IECEx BAS 05.0045X, IECEx BAS 12.0042 and IECEx BAS 12.0043. This drawing is reinstated from the previous variation and held with BAS98ATEX2372.

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: **Baseefa04ATEX0155/7X**

4 Equipment or Protective System: **Evolution II Luminaire**

5 Manufacturer: **Chalmit Lighting**

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

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa04ATEX0155** 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. **14/0135**

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On behalf of SGS Baseefa Limited

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Certificate Number Baseefa04ATEX0155/7X

15

Description of the variation to the Equipment or Protective System

Variation 7

To permit the use of a Toroidal transformer for 110-120Vac applications.

The transformer is rated 110/120Vac input; 240Vac output 50/60Hz, 500W. The transformer is for use with the low voltage range of Evolution luminaires from the same manufacturer as indicated below.

Lamp	Temperature Classification	Maximum ambient temperature	Dust marking
400W HPS/MBI	T3	+ 55°C	T175°C
250W HPS/MBI	T4	+ 40°C	T130°C
	T3	+ 55°C	T150°C
150W HPS/MBI	T4	+ 40°C	T130°C
	T3	+ 55°C	T150°C

The low voltage luminaire is coded:-

Ex d e mb IIB T* Gb Ta-20°C to + **°C

Ex tb IIIC T*°C Db IP67 Ta-20°C to + **°C

* See table above

16 Report Number

GB/BAS/ExTR14.0142/00

17 Specific Conditions of Use

- 1 The low voltage Evolution luminaires must be connected to a supply provided with a fuse suitable for a prospective short circuit current of 1500A.
- 2 The low voltage luminaires must be mounted horizontally $\pm 10^\circ$.

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	Sheets	Issue	Date	Description
D2091	1	2	02.05.14	Toroidal Transformer

This drawing is common to BAS98ATEX2372, BAS98ATEX2373, Baseefa04ATEX0192, IECEx BAS 05.0044X, IECEx BAS 05.0045X, IECEx BAS 12.0042 and IECEx BAS 12.0043, and is held with IECEx BAS 05.0044X.