



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<sub>amb</sub> = -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.

**Baseefa (2001) Ltd.**

Health and Safety Laboratory Site, Harpur Hill,  
Buxton, Derbyshire SK17 9JN  
Telephone +44 (0) 1298 28255 Fax +44 (0) 1298 28216  
e-mail [info@baseefa2001.biz](mailto:info@baseefa2001.biz) web site [www.baseefa2001.biz](http://www.baseefa2001.biz)  
Registered in England No. 4305578 at 13 Dovedale Crescent, Buxton,  
Derbyshire, SK17 9BJ

**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.



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**19 Drawings and Documents**

<b>Number</b>	<b>Sheet</b>	<b>Issue</b>	<b>Date</b>	<b>Description</b>
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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**Baseefa (2001) Ltd.**

Health and Safety Laboratory Site, Harpur Hill,  
Buxton, Derbyshire SK17 9JN  
Telephone +44 (0) 1298 28255 Fax +44 (0) 1298 28216  
e-mail [info@baseefa2001.biz](mailto:info@baseefa2001.biz) web site [www.baseefa2001.biz](http://www.baseefa2001.biz)  
Registered in England No. 4305578 at 13 Dovedale Crescent, Buxton,  
Derbyshire, SK17 9BJ

**R S SINCLAIR**  
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**Schedule**

14

**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.

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Baseefa (2001) Ltd. Customer Reference No. 0068

Project File No. 04/0664

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

**Baseefa (2001) Ltd.**  
Health and Safety Laboratory Site, Harpur Hill,  
Buxton, Derbyshire SK17 9JN  
Telephone +44 (0) 1298 28255 Fax +44 (0) 1298 28216  
e-mail [info@baseefa2001.biz](mailto:info@baseefa2001.biz) web site [www.baseefa2001.biz](http://www.baseefa2001.biz)  
Registered in England No. 4305578 at 13 Dovedale Crescent, Buxton,  
Derbyshire, SK17 9BJ



13

### Schedule

14

Certificate Number Baseefa04ATEX0155/2

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#### 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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**Baseefa**

Rockhead Business Park, Staden Lane,  
Buxton, Derbyshire SK17 9RZ  
Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601  
e-mail [info@baseefa.com](mailto:info@baseefa.com) web site [www.baseefa.com](http://www.baseefa.com)  
Baseefa is a trading name of Baseefa (2001) Ltd  
Registered in England No. 4305578 at the above address

**R S SINCLAIR**  
**DIRECTOR**  
On behalf of  
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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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**Baseefa**

Rockhead Business Park, Staden Lane,  
Buxton, Derbyshire SK17 9RZ  
Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601  
e-mail [info@baseefa.com](mailto:info@baseefa.com) web site [www.baseefa.com](http://www.baseefa.com)  
Baseefa is a trading name of Baseefa (2001) Ltd  
Registered in England No. 4305578 at the above address

  
PP R S SINCLAIR

DIRECTOR  
On behalf of  
Baseefa (2001) Ltd.



### 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