



1 **TYPE EXAMINATION CERTIFICATE**

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

3 Type Examination Certificate Number: **Baseefa04ATEX0393X**

4 Equipment: **Eclipse II and Eclipse II Junior Luminaires**

5 Manufacturer: **Chalmit Lighting**

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

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

8 Baseefa (2001) Ltd. certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment of Category 3 intended for use in potentially explosive atmospheres given in Annex II to European Union Directive 94/9/EC of 23 March 1994.

The examination and test results are recorded in confidential Report No. **04(C)0788**

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

EN60079-15: 2003

EN50281-1-1 : 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 is subject to special conditions for safe use specified in the schedule to this certificate.

11 This TYPE EXAMINATION CERTIFICATE relates only to the design of the specified equipment and not to specific items of equipment subsequently manufactured.

12 The marking of the equipment shall include the following :

⊕ II 3GD EEx nAR II T* (T_{amb} = -* to +*) * see schedule

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

Baseefa Customer Reference No. **0068**

Project File No. **04/0788**

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 Baseefa04ATEX0393X

15 Description of Equipment

Eclipse II and Eclipse II Junior Luminaires comprises a circular aluminium alloy enclosure with a hinged rear cover and an internal thread to which is attached one of a number of wellglass diffusers.

Silicone rubber gaskets are provided between the enclosure and cover and the enclosure and wellglass. Ignition protection is provided by the lampholder and diffuser forming a restricted breathing enclosure and the control gear enclosure is considered non-sparking.

The luminaires are intended to be vertically mounted at a maximum of 25 degrees from the vertical. Options include wall and stanchion mounting and enclosed, dome and angled reflectors, and a wire guard.

The types of lamp, wattage, temperature classification and ambient temperature range are indicated below.

Eclipse II Luminaire with Globe Optics

Lamp	Wattage	Max. Ambient (°C)	Temperature Classification	Min. Ambient (°C)	Max. Surface Temperature (°C)
SON	400	45	T3	-45	160
MBI					
SON	250	50	T4		130
MBI					
SON	150	55			110
MBI					
SON	100	55			
MBI					
SON	70	55			
MBI					
SON	50	55			
MBFU	400	35	T3		180
	250	50		135	
	125	45			
	80	45			

Eclipse II Luminaire with Enclosed reflector

Lamp	Wattage	Temperature Classification	Max. Ambient (°C)	Min. Ambient (°C)	Max. Surface Temperature(°C)
SON	400	T3	45	-45	160
MBI					
SON	250		50		
MBI					
SON	150		55		
MBI					
SON	100		55		
MBI					
MBFU	400	T3	40	180	
	250				



Eclipse Junior Luminaire

Lamp	Wattage	Max. Ambient (°C)	Temperature Classification	Max. Ambient (°C) (No PFC)	Temperature Classification (No PFC)	Min. Ambient (°C)	Max. Surface Temperature (°C)
SON	50	50	T4	55	T3	-45	130
SON	70	50	T4				
MBI	70	50	T4				
MBF	80	50	T3				
MBF	125	40	T3				
GLS	100	55	T4				
GLS	150	55	T4				
CFL-DE	13	50	T4	N/A	N/A	-20	130
CFL-DE	18						
CFL-DE	26						

Cable entry devices must be able to withstand a 7J impact test and maintain the ingress protection rating of the enclosure.

16 Report Number

Baseefa certification report 04(C)0788

17 Special Condition for Safe Use

1. The wellglasses form a restricted breathing enclosure when fitted in accordance with the manufacturer's instructions. Silicone grease shall be applied to the base of the wellglass or the silicone seal and hand tightened and then tightened a further 10 degrees.
2. The symmetrical refractor is suitable only for areas with a low risk of mechanical impact.

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
D2665	1	-	29.09.04	Notes and Marking Details - Eclipse II
D2665	2	-	29.09.04	General Assembly - Eclipse II
D2665	3	-	01.10.04	Alternative Reflectors - Eclipse II
D2666	1	-	01.10.04	Notes and Marking Details - Eclipse II Junior
D2666	2	-	01.10.04	General Assembly - Eclipse II Junior
D2666	3	-	01.10.04	General Assembly - Eclipse II Junior
D2666	4	-	01.10.04	Alternative Reflectors - Eclipse II Junior



1 **SUPPLEMENTARY TYPE EXAMINATION CERTIFICATE**

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

3 Supplementary Type Examination Certificate Number: **Baseefa04ATEX0393X/1**

4 Equipment: **Eclipse II and Eclipse II Junior Luminaires**

5 Manufacturer: **Chalmit Lighting**

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

7 This supplementary certificate extends Type Examination Certificate No. Baseefa04ATEX0393X 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.

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

Baseefa Customer Reference No. **0068**

Project File No. **05/0375**

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Certificate Number Baseefa04ATEX0393X/1

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

Variation 1.1

To allow the use of alternative silicone cord gasket to increase the ingress protection rating of the luminaire to IP66

16 **Report Number**

05(C)0375

17 **Special Conditions 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
D2665	1-3	1	30/6/05	Eclipse II
D2666	1-4	1	01/07/05	Eclipse Junior



1 **SUPPLEMENTARY TYPE EXAMINATION CERTIFICATE**

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

3 Supplementary Type Examination Certificate Number: **Baseefa04ATEX0393X/2**

4 Equipment: **Eclipse II and Eclipse II Junior Luminaires**

5 Manufacturer: **Chalmit Lighting**

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

7 This supplementary certificate extends Type Examination Certificate No. Baseefa04ATEX0393X 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.

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Baseefa Customer Reference No. **0068**

Project File No. **09/0328**

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Schedule

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Certificate Number Baseefa04ATEX0393X/2

15 Description of the variation to the Equipment

Variation 2.1

To include the use of the refractor type glass globe and to permit its use in areas with a high risk of mechanical impact.

16 Report Number

09(C)0328

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
D2665*	1 of 3	2	06.04.09	Notes and Marking Details – Eclipse II
D2665*	2 of 3	2	06.04.09	General Assembly – Eclipse II
D2665*	3 of 3	2	06.04.09	Alternative Reflectors – Eclipse II

* These drawings are common too Baseefa06ATEX0039X/1.



1 **SUPPLEMENTARY TYPE EXAMINATION CERTIFICATE**

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

3 Supplementary Type Examination Certificate Number: **Baseefa04ATEX0393X/3**

4 Equipment: **Eclipse II and Eclipse II Junior Luminaires**

5 Manufacturer: **Chalmit Lighting**

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

7 This supplementary certificate extends Type Examination Certificate No. Baseefa04ATEX0393X 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.

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

IEC60079-0: 2011

EN60079-15: 1010

EN60079-31: 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:

Ex II 3GD Ex nA nR IIC T* Ta -°C to + **°C Gc Ex tc IIIC T***°C Ta -**°C to + **°C Dc IP66**

This certificate shall be held with the original certificate and may only be reproduced in its entirety, without any change, schedule included.

Baseefa Customer Reference No. **0068**

Project File No. **11/0984**

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

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On behalf of
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Schedule

14

Certificate Number Baseefa04ATEX0393X/3

15 Description of the variation to the Equipment

Variation 3.1

The equipment covered by this certificate has been reviewed against the requirements of IEC 60079-0:2011, EN 60079-15: 2010 and EN60079-31: 2009 in respect of the differences from EN60079-15: 2003 and EN50281-1-1:1998 and compliance is confirmed.

Variation 3.2

To note a change in the minimum ambient temperature to -30°C when ignitors to Baseefa11ATEX0072U are used.

In this form the luminaires are coded Ex nA nR nC IIC T* Ta -30°C to + **°C Gc

16 Report Number

GB/BAS/ExTR11.0320/00.

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	Sheet	Issue	Date	Description
*D2665	1 to 3 inc.	03	01.02.12	General Assembly - Eclipse II Luminaire
D2666	1 to 4 inc.	02	01.02.12	General Assembly - Eclipse II Junior Luminaire

* These drawings are common to Baseefa06ATEX0039X/2.



1 **SUPPLEMENTARY TYPE EXAMINATION CERTIFICATE**

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

3 Supplementary Type Examination Certificate Number: **Baseefa04ATEX0393X/4**

4 Equipment: **Eclipse II and Eclipse II Junior Luminaires**

5 Manufacturer: **Chalmit Lighting**

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

7 This supplementary certificate extends Type Examination Certificate No. Baseefa04ATEX0393X 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.

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

Baseefa Customer Reference No. **0068**

Project File No. **12/0982**

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Registered in England No. 4305578. Registered address as above.

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

R S SINCLAIR
DIRECTOR
On behalf of
Baseefa



13

Schedule

14

Certificate Number Baseefa04ATEX0393X/4

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

Variation 4.1

To permit the use of an alternative cable entry and thread adapter arrangement.

16 **Report Number**

GB/BAS/ExTR12.0320/00

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	Sheet	Issue	Date	Description
H026072	1	0	24/10/2012	Eclipse II Wall Mount – M20 Cable Entry

This drawing is common to and held with IECEX BAS 05.0053X.

1 **SUPPLEMENTARY TYPE EXAMINATION CERTIFICATE**

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

3 Supplementary Type Examination Certificate Number: **Baseefa04ATEX0393X/5**

4 Equipment: **Eclipse II and Eclipse II Junior Luminaires**

5 Manufacturer: **Chalmit Lighting**

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

7 This supplementary certificate extends Type Examination Certificate No. **Baseefa04ATEX0393X** 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.

Baseefa Customer Reference No. **0068**

Project File No. **13/0692**

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GENERAL MANAGER

On behalf of SGS Baseefa Limited

13 **Schedule**

14 **Certificate Number Baseefa04ATEX0393X/5**

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

Variation 5.1

To permit the use of an alternative cable entry thread adapter to Baseefa 11ATEX0067X or SIRA 00ATEX1094X.

16 **Report Number**

GB/BAS/ExTR 13.0202/00.

17 **Specific Conditions of Use**

1. When provided with thread adapters to SIRA 00ATEX1094X the IP rating of the electronic housing is reduced to IP64.

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
H026072	1	1	21/08/2013	Eclipse II Wall Mount – M20 & M25 Cable Entry

This drawing is common to and held with IECEx BAS 05.0053X.

1 **SUPPLEMENTARY TYPE EXAMINATION CERTIFICATE**

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

3 Supplementary Type Examination Certificate Number: **Baseefa04ATEX0393X/6**

4 Equipment: **Eclipse II and Eclipse II Junior Luminaires**

5 Manufacturer: **Chalmit Lighting**

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

7 This supplementary certificate extends Type Examination Certificate No. **Baseefa04ATEX0393X** 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.

Baseefa Customer Reference No. 0068

Project File No. 15/0346

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13 **Schedule**

14 **Certificate Number Baseefa04ATEX0393X/6**

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

Variation 6.1

To permit the use of multiple PCBs containing LEDs, and control gear to replace the types of previously permitted lamps if required to form an:-

Eclipse II LED Floodlight

The various wattage luminaires are afforded the temperature classification and ambient temperature range as indicated below.

Model Number	Watts	Hz	Volts	Amps	Temperature classification Ta +40°C	Temperature classification Ta +55°C
EC2N/05L/LE/**	40	50/60	120-254	0.1 - 0.3	T5	T4
EC2N/06L/LE/**	55			0.2 - 0.5	T5	T4
EC2N/09L/LE/**	80			0.3 - 0.8	T5	T4
EC2N/12L/LE/**	100			0.4 - 1.0	T5	T4
EC2N/16L/LE/**	140			0.5 - 1.4	T4	N/A

The Eclipse II LED Floodlight is coded:-

Ex nA IIC T* Gc
Ex tc IIIC T90°C Dc IP66
Ta -40°C to + * °C

16 **Report Number**

GB/BAS/ExTR 15.0290/00.

17 **Specific Conditions of Use applicable to the Eclipse II LED Floodlight**

1 When provided with thread adaptors to SIRA00ATEX1094X the IP rating of the enclosure is reduced to IP64.

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
H031805	1	0	04.08.14	General Assembly – Eclipse LED Luminaire
H031805	2	0	04.08.14	General Assembly – Eclipse LED Luminaire
H035189	1	0	14.09.15	EUC-075-S070ST Circuit Diagram
H035190	1	0	14.09.15	EUC-052-S070ST Circuit Diagram

These drawings are common to and held with IECEx BAS 05.0053X.