



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.

Baseefa

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Baseefa is a trading name of Baseefa (2001) Ltd
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R S SINCLAIR
DIRECTOR
On behalf of
Baseefa (2001) Ltd.



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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			-45	110						
MBI												
SON	100	55					-45	110				
MBI												
SON	70	55							-45	110		
MBI												
SON	50	55		-45							110	
MBFU	400	35										T3
	250	50	135									
	125	45	135									
	80	45	135									

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			50						
SON	250					55	-45		
MBI									
SON	150		55			-45			
MBI									
SON	100		55		-45				
MBI									
MBFU	400		T3				40	-45	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				130			
MBI	70	50	T4				135			
MBF	80	50	T3				140			
MBF	125	40	T3				100			
GLS	100	55	T4				N/A	N/A	-20	130
GLS	150	55	T4							
CFL-DE	13	50	T4							
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

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17 Special Condition for Safe Use

- The wellglasses form a restricted breathing enclosure when fitted in accordance with the manufacture'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.
- 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



SUPPLEMENTARY TYPE EXAMINATION CERTIFICATE

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

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

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

Manufacturer: **Chalmit Lighting**

Address: **Glasgow, G52 4BL**

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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Schedule

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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

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Report Number

05(C)0375

17

Special Conditions for Safe Use

None additional to those listed previously

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Essential Health and Safety Requirements

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

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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