



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx SIR 04.0033

Issue No.: 2

Status: **Current**

Date of Issue: **2006-01-23**

Page 1 of 5

Applicant: **Victor Lighting**
388 Hillington road
Glasgow
G52 4BL
United Kingdom

Electrical Apparatus: **VL 147 Wellglass Luminaire**
Optional accessory:

Type of Protection: **Flameproof and Increased Safety**

Marking: **Ex dem IIB T***
Ta = -50°C to +*°C
*** See schedule**

*Approved for issue on behalf of the IECEx
Certification Body:*

D R Stubbings BA MIEE

Position:

Certification Manager

*Signature:
(for printed version)*

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

SIRA Certification Service

South Hill
Chislehurst
Kent BR7 5EH
United Kingdom

sira
CERTIFICATION



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Page **2** of **5**

Manufacturer: **Victor Lighting (Chalmit Lighting)**
388 Hillington Road
Glasgow
G52 4BL
United Kingdom

Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacture's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2000 Edition: 3.1	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-1 : 2003 Edition: 5	Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosure 'd'
IEC 60079-7 : 2001 Edition: 3	Electrical apparatus for explosive gas atmospheres - Part 7: Increased safety 'e'

This Certificate does not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

IECEx ATR:

UK/SIR/04/R51A11710A

UK/SIR/05/R51A13755B

File Reference:

R51A11710A

ITS 04012915



IECEx Certificate of Conformity

Certificate No.: IECEx SIR 04.0033

Date of Issue: 2006-01-23

Issue No.: 2

Page 3 of 5

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The VL147 Wellglass Luminaire comprises a cylindrical main body, a dome shaped lampglass, a lampglass ring and a lampglass retaining plate. The main body and lampglass ring are manufactured from cast aluminium alloy LM6 or LM25 while the lampglass retaining plate is manufactured from mild steel or stainless steel. The lampglass is manufactured from toughened borosilicate glass. The lampglass is retained within the lampglass ring by the retaining plate and a polyurethane resin. The lampglass and lampglass retaining plate are secured to the lampglass ring by six M6 x 16 socket head screws. The lampglass ring is secured to the main body by six M8 x 25 socket head cap screws. The main body may contain any combination of the following: a flameproof lampholder compartment, which may also contain an ignitor as necessary; an Ex e ballast; an Ex e terminal block; an Ex m capacitor.

The side-wall of the base assembly contains up to two cable entry points with threadforms up to size M25.

The equipment has fixing lugs moulded into its base to allow pendant mounting orientations. It may also be fitted with brackets to allow pole, wall or floodlight mounting orientations.

CONDITIONS OF CERTIFICATION: NO



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Certificate No.: IECEX SIR 04.0033

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Issue No.: 2

Page 4 of 5

EQUIPMENT(continued):

Options

The lampglass may be supplied in different colours.

Lamp ratings and control gear configurations

Style	Ratings	Control Gear
SON lamps	220 - 250 V ac 50/60 Hz	Electronic ballast, optional ignitor & E27 lampholder
MBI lamps	220 - 250 V ac 50/60 Hz	Electronic ballast, optional ignitor & E27 lampholder
MBF	220 - 250 V ac 50/60	Electronic ballast, optional ignitor & E27

lamps	Hz	lampholder
GLS lamps	250 V ac max. 50/60 Hz	E27 or B22d lampholders

Temperature classes and maximum ambient temperatures

The different lamp/associated control gear options mounted in different orientations have temperature classifications determined by the maximum ambient temperature as detailed below:

Lamp type	Maximum ambient temperature (°C)									
	T3		T4		T5		T6		Dust Temperature	
	U	P	U	P	U	P	U	P	U	P
50 W SON	70	70	55	70	25	50	N/A	35	75	50
70 W SON	70	70	55	70	25	50	N/A	35	75	50
150 W SON *	47	47	25	25	N/A	N/A	N/A	N/A	105	75
70 W MBI	70	70	55	70	25	50	N/A	35	75	50
100 W MBI	60	60	N/A	50	N/A	N/A	N/A	N/A	115	80
150 W MBI	47	47	25	25	N/A	N/A	N/A	N/A	105	75
50 W MBF	70	70	55	70	N/A	50	N/A	35	75	50
80 W MBF	68	68	40	68	N/A	35	N/A	20	90	60
125 W MBF	60	60	N/A	50	N/A	N/A	N/A	N/A	115	80
200 W GLS MAX	65	65	N/A	65	N/A	35	N/A	N/A	110	65

U = Universal mounting P = Pendant mounting

* This is a non-standard lamp manufactured by Iwasaki Lighting.



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Page **5** of **5**

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

1. Change of manufacturer name and address 2. Change of manufacturer name and the use of an alternative cement material (Silcoset 152 manufactured by Ambersil Silicones)