



1 **TYPE EXAMINATION CERTIFICATE**

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

4 Type Examination Certificate Number : **BAS01ATEX3239**

5 Equipment: **TYPE PYM RANGE OF RESTRICTED BREATHING LUMINAIRES**

6 Manufacturer: **CHALMIT LIGHTING**

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

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

9 The Electrical Equipment Certification Service 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 N°

**01(C)0590 dated 23 August 2001**

10 Compliance with the Essential Health and Safety Requirements has been assessed by reference to:

**EN 50021: 1999**


**EN 50281-1-1: 1998**

except in respect of those requirements listed at item 18 of the Schedule.

11 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.

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

13 The marking of the equipment shall include the following:-

 **II 3 GD T(see schedule)**

**EEx nR II T4**

**T<sub>amb</sub> -20°C to (see schedule)**

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

File No: EECS 0068/03/046

This certificate is granted subject to the general conditions of the Electrical Equipment Certification Service. It does not necessarily indicate that the apparatus may be used in particular industries or circumstances.



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**I M CLEARE**  
DIRECTOR  
26 October 2001



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**Schedule**

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**TYPE EXAMINATION CERTIFICATE N° BAS01ATEX3239**

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**Description of Equipment**

The Type PYM Restricted Breathing Luminaire is designed for fitting SON/E lamps rated at 150, 250 or 400W or MBI/E lamps rated at 250 or 400W. The voltage range is 200 to 254V 50Hz or 210 to 254V 60Hz.

The enclosure comprises a 0.9mm thick mild steel chassis with a 2mm thick (minimum) injection moulded polycarbonate diffuser and contains a gear tray fitted with the lampholder and control gear. A 9mm thick silicone rubber gasket is adhered to a lip on the chassis using silicone rubber sealant. The diffuser is secured to the chassis by a mild steel frame held in place by steel screws which pass through the frame into nutserts in the chassis. A cover retaining chain and external earth may also be fitted to the enclosure. Mounting brackets are welded to the chassis for fixing purposes.

A hole in the chassis allows access for a suitably glanded supply cable and a neoprene washer is provided for use between the gland and the enclosure. A flat plate may be spot welded to the enclosure to increase wall thickness at the cable entry. The luminaire enclosure is classified restricted breathing with ingress protection of IP65.

The following components are fitted within the luminaire.

Lampholder	Hackney 95222 E40 type, BASEEFA Certificate no. Ex 4153U		
Ignitor	or	Tridonic ZRM 6ES Series B, BASEEFA Certificate no. Ex 94Y4537U	
		Parry PXA 000, Assessed in BASEEFA Report no. 96(C)1064	
Transtar Ballast *		$T_w$ (°C)	$\Delta T$ (°C)
	LN150	140	55
	LN250	140	70
	LN400	140	70
Capacitor	Optional capacitor must comply with the specification on drawing D1663		

\* may include Thermik Type SO or Microtherm T21 thermal protectors

Alternative ballasts may be fitted provided they possess the following:

- i) Identical or higher  $T_w$  than those specified
- ii) Identical or lower  $\Delta T$  than those specified
- iii) Carry the BSI Kite Mark

The supply cable is terminated in an EEx e component approved MK6 terminal block. Supply cables may be looped by using a 6 way terminal block with cross connecting combs inserted to link terminals. A 10A (150/250W) or 13A (400W) ceramic cartridge fuse is fitted inside a clamped fuse carrier. When the fuse is fitted and the clamp is in place the fuse holder is a non-sparking component.



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### Schedule

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The following ambient temperatures and temperature classifications apply to the range:

Lamp	Mounting	Ambient temp. -30°C to ___°C	T class	Max. external surface temp. (dust) °C
SON/E 150W	Surface	50	T4	130
	Pendant	50	T4	130
	Recessed	45	T4	130
SON/E 250W	Surface	45	T4	110
	Pendant	45	T4	110
	Recessed	35	T4	110
SON/E 400W	Surface	30	T4	115
	Pendant	30	T4	115
MBI/E 250W	Surface	45	T4	110
	Pendant	45	T4	110
	Recessed	35	T4	110
MBI/E 400W	Surface	30	T4	115
	Pendant	30	T4	115

17 **Special Conditions For Safe Use**

None.

18 **Essential Health and Safety Requirements**

All requirements are covered by compliance with EN 50021: 1999 and EN 50281-1-1: 1998.

19 **DRAWINGS**

Number	Issue	Sheet	Date	Description
D1663	1	1	2-5-01	General arrangement
D1663	1	2	2-5-01	Overall dimensions
D1663	1	3	2-5-01	Detail views

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BASEEFA List Keywords  
2DISCLUM