

Certificate of Compliance

Certificate: 1358955

Master Contract: 201067

Project: 1358955 (Edition 1)

Date Issued: September 3rd, 2002

Issued to: Chalmit Lighting, A Division of Hubbell Lighting Ltd.
388 Hillington Road
Glasgow, G52 4BL
UNITED KINGDOM

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US'



Issued by:

D. Adams
D. Adams, P. Eng.
Certification Specialist

Authorized by: John Verwey, P.Eng.
Operations Manager

CLASS

3428 03 - Fixtures and Fittings - For Hazardous Locations

3428 83 - Fixtures and Fittings - For Hazardous Locations - To US Requirements

PRODUCTS

Ex de IIB T(See Table); Tamb = -50°C to (See Table); CSA Enclosure Type 4:

Class I, Zone 1, AEx de IIB T(See Table); Tamb = -50°C to (See Table); NEMA 4:

Type "238" Wellglass Luminaires, Model Number's 238D/a/b/c/d/e/f/g/h, rated up to 270Vac, 50 Hz; or 600Vac, 60-Hz, 300W max. Specific model numbers are listed below.

Model Number 238D/a/b/c/d/e/f/g/h

1 st Digit (a)	2 nd Digit (b)	3 rd Digit (c)	4 th Digit (d)	5 th Digit (e)	6 th Digit (f)	7 th Digit (g)	8 th Digit (h)
Wattage 70, 80, 100, 125, 150, 160, 200, 250 or 300 W	Lamp Type PHS, Metal Halide, Mercury vapour, GLS or MBTF	Specific Voltage Up to 600 Vac	60-Hz	M25 entries	PTFE Coating	Stirrup Mounting bracket	No PF correction Capacitors fitted.

The 'C' and 'US' indicators adjacent to the CSA Mark signify that the product has been evaluated to the applicable CSA and ANSI/UL Standards, for use in Canada and the U.S., respectively. This 'US' indicator includes products eligible to bear the 'NRTL' indicator. NRTL, i.e. National Recognized Testing Laboratory, is a designation granted by the U.S. Occupational Safety and Health Administration (OSHA) to laboratories which have been recognised to perform certification to U.S. Standards.

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The ratings are as follows:

Lamp	Wattage	Ambient Temp Range °C	T Rating
GLS	150	-50°C To 70°C	T4
		-50°C To 50°C	T4
"	200	-50°C To 70°C	T3
		-50°C To 50°C	T4
"	300	-50°C To 40°C	T4
SON/E	70	-50°C To 50°C	T4
		-50°C To 70°C	T4
		-50°C To 40°C	T5
"	100	-50°C To 60°C	T4
		-50°C To 40°C	
"	150	-50°C To 55°C	T3
		-50°C To 40°C	T4
"	250	-50°C To 40°C	T3
SON/R	250	-50°C To 40°C	T3
MBF/U	80	-50°C To 60°C	T4
		-50°C To 50°C	
"	125	-50°C To 50°C	T3
		-50°C To 40°C	T4
"	250	-50°C To 40°C	T3
MBI	150	-50°C To 55°C	T3
		-50°C To 40°C	T4
"	250	-50°C To 40°C	T3
MBTF	160	-50°C To 40°C	T3
		-50°C To 50°C	

APPLICABLE REQUIREMENTS

CSA Standard C22.2 No 0-M1991 - General Requirements - Canadian Electrical Code Part II.

CSA Standard C22.2 No137-M1981 - Electric Luminaires for Use in Hazardous Locations.

CAN/CSA

E79-0-95 - Electrical apparatus for explosive gas atmospheres. PART 0: General requirements.

E79-1-95 - Electrical apparatus for explosive gas atmospheres. PART 1: Construction and verification test of flameproof enclosures of electrical apparatus.

E79-7-95 - Electrical apparatus for explosive gas atmospheres. Part 7: Increased Safety 'e'.

UL 2279 - UL Standard for Safety for Electrical Equipment for Use in Class I, Zone 0,1,2 Hazardous Locations.

ANSI/UL 844 - Standard for Electric Lighting Fixtures for Use in Hazardous (Classified) Locations.



Supplement to Certificate of Compliance

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*The products listed, including the latest revision described below,
are eligible to be marked in accordance with the referenced Certificate.*

Product Certification History

Project	Date	Description
1358955	September 3rd, 2002	Original Certification of Type "238" Wellglass Luminaires, Model Number's 238D/a/b/c/d/e/f/g/h.