

Certificate of Compliance

Certificate: 1280724

Master Contract: 201067

Project: 1280724 (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*
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 edm IIC T4; Ex eqd IIC T4; Ex eqm II T4; Ex eqdm IIC T4; Tamb -20°C to +55°C; CSA Enclosure Type 4: Class I, Zone 1, AEx edm IIC T4; AEx eqd IIC T4; AEx eqm II T4; AEx eqdm IIC T4; Tamb -20°C to +55°C; NEMA 4:

“PROTECTA” Series Luminaires, Model Number’s 50abcd-efghij, for mono-pin and bi-pin tubular fluorescent lamps, with and without emergency lighting, Max rated 277Vac/306Vdc, 47 - 63 Hz, 40W. Specific methods of protection and electrical ratings are listed below.

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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Ex edm IIC T4 or Ex eqd IIC T4		
Luminaire Type	Power	Electrical Ratings
500239.A***	2x18/20W	220 - 277 Vac, 47 - 63 Hz or 150 - 300 Vdc
500439.A***	2x36/40W	
502239.A***	2x18/20W	
502439.A***	2x36/40W	
500639.A***	2x18/20W	
500239.G***	2x18/20W	220 - 254 Vac, 47 - 63 Hz or 264 - 306 Vdc
500339.G***	1x36/40W	
500439.G***	2x36/40W	
500639.G***	2x18/20W	
500239.G**1	2x18/20W	110 - 120 Vac, 47 - 63 Hz or 134 - 153 Vdc
500339.G**1	1x36/40W	
500439.G**1	2x36/40W	
500639.G**1	2x18/20W	
500231.A***	2x18/20W	220 - 277 Vac, 47 - 63 Hz or 150 - 300 Vdc
500431.A***	2x36/40W	
502231.A***	2x18/20W	
502431.A***	2x36/40W	
500631.A***	2x18/20W	
500231.G***	2x18/20W	220 - 254 Vac, 47 - 63 Hz or 264 - 306 Vdc
500331.G***	1x36/40W	
500431.G***	2x36/40W	
500631.G***	2x18/20W	
500231.G**1	2x18/20W	110 - 120 Vac, 47 - 63 Hz or 134 - 153 Vdc
500331.G**1	1x36/40W	
500431.G**1	2x36/40W	
500631.G**1	2x18/20W	

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<u>Method of Protection</u>	<u>Luminaire Type</u>	<u>Power</u>	<u>Electrical Ratings</u>
Ex eqd IIC T4 or Ex eqm IIC T4	500239.H***	2x18W	220 - 254 Vac, 47 - 63 Hz or 220 - 300 Vdc
	500339.H***	1x36W	
	500439.H***	2x36W	
	500639.H***	2x18W	
	500239.H**1	2x18W	110 - 120 Vac, 47 - 63 Hz or 110 - 150 Vdc
	500339.H**1	1x36W	
	500439.H**1	2x36W	
	500639.H**1	2x18W	
Ex eqm IIC T4	502231.J***	2x18W	220 - 254 Vac, 50 - 60 Hz
	502431.J***	2x36W	
	502631.J***	2x18W	
	502231.J**1	2x18W	110 - 120 Vac, 50 - 60 Hz
	502431.J**1	2x36W	
	502631.J**1	2x18W	
Ex eqm IIC T4	500231.H***	2x18W	220 - 254 Vac, 47 - 63 Hz or 220 - 300 Vdc
	500331.H***	1x36W	
	500431.H***	2x36W	
	500631.H***	2x18W	
	500231.H**1	2x18W	110 - 120 Vac, 47 - 63 Hz or 110 - 150 Vdc
	500331.H**1	1x36W	
	500431.H**1	2x36W	
	500631.H**1	2x18W	
Ex eqdm IIC T4	502239.J***	2x18W	220 - 254 Vac, 50 - 60 Hz
	502439.J***	2x36W	
	502639.J***	2x18W	
	502239.J**1	2x18W	110 - 120 Vac, 50 - 60 Hz
	502439.J**1	2x36W	
	502639.J**1	2x18W	

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APPLICABLE REQUIREMENTS

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

CSA Standard C22.2 No 137-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.

E79-5-95 - Electrical apparatus for explosive gas atmospheres. Part 5: Sand-filled apparatus.

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

E79-18-95 - Electrical apparatus for explosive gas atmospheres. Part 18: Encapsulation "m".

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
1280724	September 3, 2002	Original Certification of "PROTECTA" Series Luminaires, Model Number's 50abcd-efghij, for mono-pin and bi-pin tubular fluorescent lamps, with and without emergency lighting.

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Operations Manager

CLASS

3428 03 - Fixtures and Fittings - For Hazardous Locations

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

PRODUCTS

Ex edm IIC T4; Ex eqd IIC T4; Ex eqm II T4; Ex eqdm IIC T4; Tamb -20°C to +55°C; CSA Enclosure Type 4: Class I, Zone 1, AEx edm IIC T4; AEx eqd IIC T4; AEx eqm II T4; AEx eqdm IIC T4; Tamb -20°C to +55°C; NEMA 4:

“PROTECTA” Series Luminaires, Model Number’s 50abcd-efghij, for mono-pin and bi-pin tubular fluorescent lamps, with and without emergency lighting, Max rated 277Vac/306Vdc, 47 - 63 Hz, 40W. Specific methods of protection and electrical ratings are listed below.

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	500439.H***	2x36W	
	500639.H***	2x18W	
	500239.H**1	2x18W	110 - 120 Vac, 47 - 63 Hz or 110 - 150 Vdc
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	500439.H**1	2x36W	
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Ex eqm IIC T4	502231.J***	2x18W	220 - 254 Vac, 50 - 60 Hz
	502431.J***	2x36W	
	502631.J***	2x18W	
	502231.J**1	2x18W	110 - 120 Vac, 50 - 60 Hz
	502431.J**1	2x36W	
	502631.J**1	2x18W	
Ex eqm IIC T4	500231.H***	2x18W	220 - 254 Vac, 47 - 63 Hz or 220 - 300 Vdc
	500331.H***	1x36W	
	500431.H***	2x36W	
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	500231.H**1	2x18W	110 - 120 Vac, 47 - 63 Hz or 110 - 150 Vdc
	500331.H**1	1x36W	
	500431.H**1	2x36W	
	500631.H**1	2x18W	
Ex eqdm IIC T4	502239.J***	2x18W	220 - 254 Vac, 50 - 60 Hz
	502439.J***	2x36W	
	502639.J***	2x18W	
	502239.J**1	2x18W	110 - 120 Vac, 50 - 60 Hz
	502439.J**1	2x36W	
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