



Certificate of Compliance

Certificate: 2701664

Master Contract: 201067

Project: 70018834

Date Issued: January 26, 2015

Issued to: **Chalmit Lighting**

**A Division of Hubbell Lighting Ltd.
388 Hillington Rd
Glasgow, G52 4BL
United Kingdom
Attention: George Banks**

The products listed below are eligible to bear the CSA Mark shown



Joe DaSilva

Issued by: Joe DaSilva

PRODUCTS

CLASS 3428 03 - FIXTURES AND FITTINGS - For Hazardous Locations

Ex e m q IIC T4 Gb; Tamb = -20°C to +55°C (See Notes 3 and 4 below); IP66/67; Suitable for wet locations.

PROTECTA III Emergency and Non-Emergency fluorescent luminaires. The following are the certified model designations and their ratings:

Table 1: Certified Protecta III Emergency Models Designations and their Ratings:

Model Designation	Lamp Number, Wattage, and Type	Input Voltage	Mains Current	Mains Power	Duration of Emergency operation	Supply Wire Temperature Rise Above Ambient
PRGE/218/Bi/EM	2 x 18W, Bi-pin	200-254 Vac 50/60 Hz	0.19A	40W	90 minutes	20°C
PRSE/218/Bi/EM	2 x 18W, Bi-pin	200-254 Vac 50/60 Hz	0.19A	40W	90 minutes	20°C



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PRGE/218/Bi/EM/3H	2 x 18W, Bi-pin	200-254 Vac 50/60 Hz	0.19A	40W	3 hours	20°C
PRSE/218/Bi/EM/3H	2 x 18W, Bi-pin	200-254 Vac 50/60 Hz	0.19A	40W	3 hours	20°C
PRGE/218/Bi/EM/SE/3H	2 x 18W, Bi-pin	200-254 Vac 50/60 Hz	0.19A	40W	3 hours	20°C
PRGE/218/Bi/EM/3H/NST	2 x 18W, Bi-pin	200-254 Vac 50/60 Hz	0.19A	40W	3 hours	20°C
PRSE/218/Bi/EM/3H/NST	2 x 18W, Bi-pin	200-254 Vac 50/60 Hz	0.19A	40W	3 hours	20°C
PRGE/218/Bi/EM/SE/3H/NST	2 x 18W, Bi-pin	200-254 Vac 50/60 Hz	0.19A	40W	3 hours	20°C

Model Designation	Lamp Number, Wattage, and Type	Input Voltage	Mains Current	Mains Power	Duration of Emergency operation	Supply Wire Temperature Rise Above Ambient
PRGE/218/Bi/EM/120	2 x 18W, Bi-pin	110-130 Vac 50/60 Hz	0.38A	40W	90 minutes	20°C
PRSE/218/Bi/EM/120	2 x 18W, Bi-pin	110-130 Vac 50/60 Hz	0.38A	40W	90 minutes	20°C
PRGE/218/Bi/EM/120/3H	2 x 18W, Bi-pin	110-130 Vac 50/60 Hz	0.38A	40W	3 hours	20°C
PRSE/218/Bi/EM/120/3H	2 x 18W, Bi-pin	110-130 Vac 50/60 Hz	0.38A	40W	3 hours	20°C
PRGE/218/Bi/EM/120/SE/3H	2 x 18W, Bi-pin	110-130 Vac 50/60 Hz	0.38A	40W	3 hours	20°C



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PRGE/236/Bi/EM	2 x 36W, Bi-pin	200-254 Vac 50/60 Hz	0.36A	77W	90 minutes	20°C
PRSE/236/Bi/EM	2 x 36W, Bi-pin	200-254 Vac 50/60 Hz	0.36A	77W	90 minutes	20°C
PRGE/236/Bi/EM/3H	2 x 36W, Bi-pin	200-254 Vac 50/60 Hz	0.36A	77W	3 hours	20°C
PRSE/236/Bi/EM/3H	2 x 36W, Bi-pin	200-254 Vac 50/60 Hz	0.36A	77W	3 hours	20°C
PRGE/236/Bi/EM/SE	2 x 36W, Bi-pin	200-254 Vac 50/60 Hz	0.36A	77W	90 minutes	20°C
PRGE/236/Bi/EM/HEO	2 x 36W, Bi-pin	200-254 Vac 50/60 Hz	0.36A	77W	90 minutes	20°C
PRSE/236/Bi/EM/HEO	2 x 36W, Bi-pin	200-254 Vac 50/60 Hz	0.36A	77W	90 minutes	20°C
PRGE/236/Bi/EM/SE/3H	2 x 36W, Bi-pin	200-254 Vac 50/60 Hz	0.36A	77W	3 hours	20°C
PRGE/236/Bi/EM/SE/HEO	2 x 36W, Bi-pin	200-254 Vac 50/60 Hz	0.36A	77W	90 minutes	20°C
PRGE/236/Bi/EM/3H/NST	2 x 36W, Bi-pin	200-254 Vac 50/60 Hz	0.36A	77W	3 hours	20°C
PRSE/236/Bi/EM/3H/NST	2 x 36W, Bi-pin	200-254 Vac 50/60 Hz	0.36A	77W	3 hours	20°C
PRGE/236/Bi/EM/SE/3H/NST	2 x 36W, Bi-pin	200-254 Vac 50/60 Hz	0.36A	77W	3 hours	20°C
PRGE/236/Bi/EM/120	2 x 36W, Bi-pin	110-130 Vac 50/60 Hz	0.73A	77W	90 minutes	20°C
PRSE/236/Bi/EM/120	2 x 36W, Bi-pin	110-130 Vac 50/60 Hz	0.73A	77W	90 minutes	20°C
PRGE/236/Bi/EM/120/3H	2 x 36W, Bi-pin	110-130 Vac 50/60 Hz	0.73A	77W	3 hours	20°C
PRSE/236/Bi/EM/120/3H	2 x 36W, Bi-pin	110-130 Vac 50/60 Hz	0.73A	77W	3 hours	20°C
PRGE/236/Bi/EM/120/SE	2 x 36W, Bi-pin	110-130 Vac 50/60 Hz	0.73A	77W	90 minutes	20°C
PRGE/236/Bi/EM/120/HEO	2 x 36W, Bi-pin	110-130 Vac 50/60 Hz	0.73A	77W	90 minutes	20°C
PRSE/236/Bi/EM/120/HEO	2 x 36W, Bi-pin	110-130 Vac 50/60 Hz	0.73A	77W	90 minutes	20°C
PRGE/236/Bi/EM/120/SE/3H	2 x 36W, Bi-pin	110-130 Vac 50/60 Hz	0.73A	77W	3 hours	20°C
PRGE/236/Bi/EM/120/SE/HEO	2 x 36W, Bi-pin	110-130 Vac 50/60 Hz	0.73A	77W	90 minutes	20°C



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Table 2: Certified Protecta III Non-Emergency Models Designations and their Ratings:

Model Designation	Lamp Number, Wattage, and Type	Input Voltage	Mains Current	Mains Power	Supply Wire Temperature Rise Above Ambient
PRGE/218/Bi	2 x 18W, By-pin	200-254 Vac 50/60 Hz OR 220-300 Vdc	0.17A	35W	20°C
PRSE/218/Bi	2 x 18W, By-pin	200-254 Vac 50/60 Hz OR 220-300 Vdc	0.17A	35W	20°C
PRGE/218/Bi/SE	2 x 18W, By-pin	200-254 Vac 50/60 Hz OR 220-300 Vdc	0.17A	35W	20°C
PRGE/218/Bi/120	2 x 18W, By-pin	110-130 Vac 50/60 Hz OR 110-150 Vdc	0.34A	35W	20°C
PRSE/218/Bi/120	2 x 18W, By-pin	110-130 Vac 50/60 Hz OR	0.34A	35W	20°C



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		110-150 Vdc			
PRGE/218/ Bi/120/SE	2 x 18W, By-pin	110-130 Vac 50/60 Hz OR 110-150 Vdc	0.34A	35W	20°C
PRGE/236/Bi	2 x 36W, By-pin	220-254 Vac 50/60 Hz OR 220-300 Vdc	0.32A	70W	20°C
PRSE/236/Bi	2 x 36W, By-pin	220-254 Vac 50/60 Hz OR 220-300 Vdc	0.32A	70W	20°C
PRGE/236/Bi/SE	2 x 36W, By-pin	220-254 Vac 50/60 Hz OR 220-300 Vdc	0.32A	70W	20°C
PRGE/236/Bi/120	2 x 36W, By-pin	110-130 Vac 50/60 Hz OR 110-150 Vdc	0.65A	70W	20°C
PRSE/236/Bi/120	2 x 36W, By-pin	110-130 Vac 50/60 Hz	0.65A	70W	20°C



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		OR 110-150 Vdc			
PRGE/236/ Bi/120/SE	2 x 36W, By-pin	110-130 Vac 50/60 Hz OR 110-150 Vdc	0.65A	70W	20°C

Notes:

1. In the above Tables 1 and 2 “PRGE” in the model designation refers to glass reinforced polyester (GRP) luminaire body while “PRSE” in the model designation refers to stainless steel luminaire body.
2. Luminaires may have the optional suffix “/LT” added to the model designation denoting low temperature use. Luminaires having “/LT” in the model designation are certified for -40°C minimum ambient temperature.
3. Emergency luminaire models with “PRSE” in the model designation (i.e. having stainless steel body) are certified for a maximum ambient temperature of +45°C.
4. Wiring methods to the luminaire must be in accordance with Section 18 of the Canadian Electrical Code, Part I (CSA C22.1). Cable glands and blanking plugs installed in the luminaire must be increased safety (Ex e) certified to CAN/CSA C22.2 No. 60079-0:11 and CAN/CSA C22.2 No. 60079-7:12 and must maintain on the enclosure an ingress protection rating of IP66/67.

APPLICABLE REQUIREMENTS

- CSA C22.2 No. 0-2010 - General Requirements - Canadian Electrical Code Part II.
- CAN/CSA C22.2 No. 60079-0: 11 - Explosive atmospheres — Part 0: Equipment — General



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requirements

- CAN/CSA C22.2 No. 60079-5: 11 - Explosive Atmospheres – Part 5: Equipment Protection by Powder Filling “q”
- CAN/CSA C22.2 No. 60079-7: 12 - Explosive Atmospheres – Part 7: Equipment Protection by Increased Safety “e”
- CAN/CSA C22.2 No. 60079-18: 12 - Explosive atmospheres — Part 18: Equipment Protection by Encapsulation “m”
- CSA C22.2 No. 250.0-08 (R2013) - Luminaires
- CSA C22.2 No. 141-10 - Emergency Lighting Equipment
- CAN/CSA C22.2 No. 60529: 05 - Degrees of protection provided by enclosures (IP Code) - First

MARKINGS

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The required markings for the PROTECTA III luminaire are applied on two separate adhesive labels as follows:

Adhesive Label #1:

Affixed to the top surface of the body of the luminaire and contains the following markings:

- (a) Submitter's name, trademark, or the CSA Master Contract No.
- (b) “CSA 14.2701664”.
- (c) The luminaire designation “PROTECTA III”.
- (d) The model designation, as specified in Tables 1 and 2 in the PRODUCTS section of this report.
- (e) Serial number.



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- (f) Number of lamps installed and lamp wattage (2 X 18W or 2 X 36W).
- (g) Lamp cap size (i.e. G13).
- (h) Electrical ratings (Volts, Amperes, Watts).
- (i) Hazardous location designation.
- (j) Temperature Code.
- (k) Ambient temperature range.
- (l) Supply wire minimum temperature rating or the supply wire temperature rise above ambient temperature.
- (m) IP66/67.
- (n) The phrase "SUITABLE FOR WET LOCATIONS".
- (o) The Warning statement "WARNINIG: POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS CLEAN ONLY WITH A DAMP CLOTH" and "AVERTISSEMENT: potentiel électrostatique RISQUE DE CHARGE - VOIR INSTRUCTIONS NETTOYER UNIQUEMENT avec un chiffon humide".
- (p) CSA Mark.

Adhesive Label #2:

Affixed inside the luminaire to the visible side of the gear-tray, adjacent to the lamps and contains the Warning statement "DO NOT OPEN WHILE ENERGIZED" and "NE PAS OUVRIR SOUS TENSION".

Additional Markings Per CSA C22.2 No. 141-10:

- The following markings shall be applied as part of Adhesive Label #1 specified above or on a separate adhesive label applied on the luminaire such that it is visible after installation:

1. Nominal voltage of the battery pack.
2. Duration of emergency operation in minutes (i.e. the time base for the emergency rating).
3. Regarding replacement of lamps, the phrase "Replace only with" and "Remplacer seulement par" followed by the manufacturer's part number, type of lamp, wattage, and voltage.
4. "CSA C22.2 No. 141, *Emergency Lighting Equipment*" and "*Appareil d'éclairage de secours*".
 - The following markings shall be applied on an adhesive label applied on the battery pack:
 1. Identification of the replacement battery type.



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2. The caution marking “CAUTION: REPLACE BATTERY ONLY WITH (MODEL)” and “REPLACER LA BATTERIE UNIQUEMENT PAR UNE BATTERIE (MODELE)”. The battery model designation may be “PROT2-0005” or “PROT2-0006” as applicable.
3. The battery model number and the month and year of its replacement date.
4. The statement “THIS LUMINAIRE IS PROVIDED WITH A FACTORY-INSTALLED EMERGENCY LIGHTING BATTERY PACK”.



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
70018834	Jan 26, 2015	Update to report 2701664 to cover correction of rating of luminaries and confirmation of marking requirements.
2701664	Jun 17, 2014	Certification of Protecta III Emergency and Protecta III Non-Emergency luminaires for hazardous locations as Ex e m q IIC T4 Gb.