



CERTIFICADO DE CONFORMIDADE

Certificate of Conformity

Nº: IEx 15.0271

Emissão / Issue Date: 09/12/2015

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Solicitante / Endereço:

Applicant / Address
Solicitante / Dirección

CHALMIT LIGHTING
388 Hillington Road
Glasgow - G52 4BL - United Kingdom

Produto / Modelo / Marca:

Product / Model / Trademark / Bar Code
Producto / Modelo / Marca / Código de Barras

Arran LED Floodlight
Arran
Chalmit

Família de Produto:

Product's Family
Familia de productos

N/A

Número de Série / Lote:

Serial number / Batch number
Número de serie / Número de lote

N/A

Marcação:

Marking
Marcación

Ex nA IIC T* Gc
Ex tc IIIC T160 °C Dc IP6X
Ex tb IIIC T160 °C Db IP6X
T_{amb} = -50 °C to +55 °C

Normas Aplicáveis:

Applicable Standards
Normas aplicables

ABNT NBR IEC 60079-0:2013 (IEC 60079-0:2011),
ABNT NBR IEC 60079-15:2012 (IEC 60079-15:2010) and
ABNT NBR IEC 60079-31:2014 (IEC 60079-31:2013).

Modelo de Certificação:

Certification Model
Modelo de certificación

Model 5, according to ISO/IEC 17067:2013

Portaria Inmetro N° / Escopo:

Inmetro Decree n° / Scope
Ordenanza Inmetro / Alcance

179:2010 / Equipamentos Elétricos e Eletrônicos para Atmosferas
Explosivas - Electrical and electronic equipment for use in hazardous
locations

Concessão para:

Concession for
Concesión

Uso do Selo de Identificação da Conformidade sobre o(s) produto(s)
relacionado(s) neste Certificado - Use of the conformity identification label
on the product(s) listed in this certificate

Associação IEx Certificações, that is a Product Certification Body accredited by Cgcre/INMETRO, under the registration OCP 0064, confirms that the product is in conformity with the Standards and Regulation above.

Revisão: **N/A**

Revision / Revisión

Validade: **27/10/2016**

Validity / Validad


Marco A. Bucciarelli Roque
Signatário autorizado
Authorized signatory
Persona autorizada



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Fabricante / Endereço:

*Manufacturer / Address
Fabricante / Dirección*

CHALMIT LIGHTING

**388 Hillington Road
Glasgow - G52 4BL - United Kingdom**

Unidade Fabril / Endereço:

*Production Site / Address
Unidad de Fabricación / Dirección*

CHALMIT LIGHTING

**388 Hillington Road
Glasgow - G52 4BL - United Kingdom**

Representante Legal / Endereço:

*Legal Representative / Address
Representante Legal / Dirección*

FÁBRICA DE PEÇAS ELÉTRICAS DELMAR LTDA

**Rodovia Antonio Romano Schincariol, S/N - Km 113
18279-125 - Tatuí - SP - Brazil
CNPJ: 72.183.759/0001-68**

Product Description:

The Arran floodlight is a floodlight luminaire fitted with LED lamps. There are 5 models all of which share the same enclosure but vary their input characteristic (voltage, current, power) and internal components (LED type, number and accompanying driver) to suit their intended environment. The table below lists the main characteristics.

Model Code	Power (W)	Freq. (Hz)	Voltage (V)	T Class at +40 °C Ambient	T Class at +55 °C Ambient	T Rating
ARRN/15L/LE/**	122	50/60	120 - 277 ac	T6	T5	T160 °C
ARRN/11L/LE/**	81	50/60	120 - 277 ac	T6	T5	T160 °C
ARRN/10L/LE/**	66	50/60	120 - 277 ac	T6	T5	T160 °C
ARRN/06L/LE/**	53	50/60	120 - 277 ac	T6	T5	T160 °C
ARRN/06L/LE/DC/**	53	N/A	105 – 250 dc	T6	T5	T160 °C

The enclosure consists of an extruded aluminium housing with aluminium end caps and a flat tempered glass lens. The glass lens is fitted using an aluminium frame with a polycarbonate closeout panel/diffuser for mechanical protection and is sealed by a silicone gasket. The rear of the housing has an access panel and up to two M20 or M25 entries for cable(s) which are wired to separately certified terminal blocks within the housing. There is an internal earth adjacent to cable entry and an external earthing provision on the rear of the housing. Internally there are 2 or 3 LED PCBs each fitted with up to 20 LEDs.

The LEDs are controlled by a driver unit which is protected by a surge protector. A stainless steel yoke is used for mounting which also allows the housing to be rotated by 180° to a user defined position before being fixed. All units have the option of being fitted with a stainless steel wireguard to further protect the lens and/or an aluminium reflector to direct the light.

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M.A.B. Rogue

Associação IEx Certificações (CNPJ: 12.845.838/0001-65)
Alameda Tocantins, 75 sala 609 Barueri SP ZIP Code 06455-020 Brazil
Tel +55 11 4195-0705 contato@iexcert.com.br



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Nomenclature:

The Arran series is identified by its coding:

ARRN/aaa/LE/bb/cc

Where:

ARRN = Arran series designation.

aaa - LED power:

15L = 122 W

11L = 81 W

10L = 66 W

06L = 53 W

bb = Input voltage:

Blank = AC input voltage

DC = DC input voltage

cc = Options:

Blank = M20 cable entries

M25 = M25 cable entries

Temperature class and ambient temperature range:

Ex nA IIC T* Gc

T6: $-50\text{ °C} \leq T_{\text{amb}} \leq +40\text{ °C}$

T5: $-50\text{ °C} \leq T_{\text{amb}} \leq +55\text{ °C}$

Audit date: 27 and 28/08/2015.

Documents:

Title	Number	Revision	Date
Conformity Assessment Report	RACT-Ex 686.384.15B (79)	0	24/11/2015
Test Report issued by cml Ex	GB/CML/ExTR14.0026/00	0	12/2014

The approved documents are listed in the Conformity Assessment Report RACT-Ex 686.384.15B (79).

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MAB Roque

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Observations:

- a) All products provided to Brazilian market shall be in conformity with product description and schedule documents approved in this certification process;
- b) Only the units commercialized during the validity of this Certificate are covered by this certification;
- c) This Certificate is valid only for products identical to the assessed products. Any modification in the project, as well, use of different components and/or materials specified in the schedule drawings/documents without IEx authorization, will invalidate this Certificate;
- d) The validity of this certificate depend on carrying out the surveillance audits and treating of possible non-conformances in according with the Associação IEX guidelines and according with the Inmetro's Product Conformity Assessment Requirements – RAC # : 179/2010 – Electrical and Electronic Equipment for Explosive Atmospheres.
- e) To check the current validity of this certificate, please, access the Inmetro's database for certified products and services
- f) The Conformity Identification Label must be placed on the outside surface of the equipment in an easily visible place.
- g) This authorization is linked to a contract and to the address mentioned above;
- h) The products shall be installed according to the applicable standard for explosive atmospheres installations (ABNT NBR IEC 60079-14)
- i) This certification refers only and exclusively to the conformity assessment requirements for electrical equipment for explosive atmospheres, not covering any other regulation applicable to the product;
- j) The activities of installation, inspection, maintenance, repair, revision and recuperation of equipment are the responsibility of the end users and shall be performed according to the applicable technical standards requirements and according to manufacturer recommendations.
- k) Each unit manufactured shall be subjected to an electric strength test in accordance with IEC 60079-15:2010 Clause 23.2.1 at (1000V + 2U) for 60 s. Alternatively at 1.2 times this test voltage for at least 100 ms. The LED driver and LEDs may be disconnected for the electric strength test in accordance with Clause 6.5.2.
- l) The warning Label must be placed on the outside surface of the equipment in an easily visible place, with the following information:
 - "Warning: Do not open when an explosive atmosphere is present."

Revision history:

Revision	Date	Description
0	09/12/2015	Initial issue.

Quotation: 14.0.686.384.15.

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