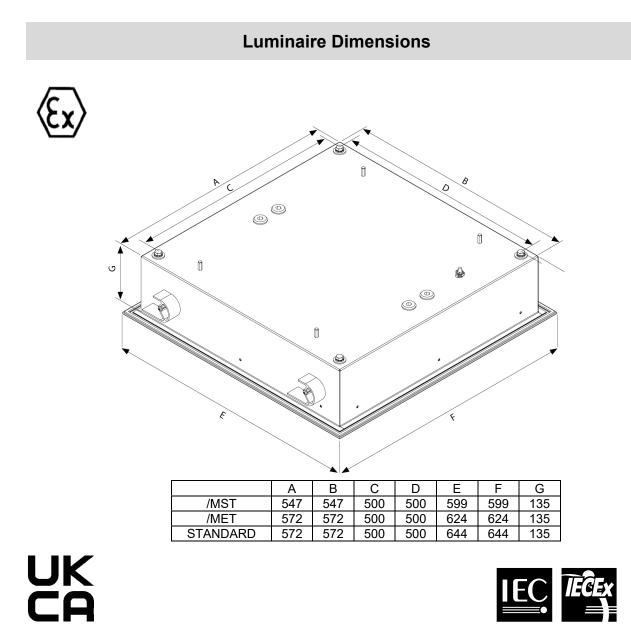


Curie Elite IP65 Recessed LED Luminaires ATEX, IECEx and UKEX INSTALLATION, OPERATION AND MAINTENANCE INSTRUCTIONS

Important:

Please read these instructions carefully before installing or maintaining this equipment. Good electrical practices should be followed at all times and this data should be used as a guide only.





0.0 Specification				
Type of Protection	Ex eb mb op is qb Increased safety, Encapsulation, optical radiation, powder filling. (With isolating switch: Ex db eb mb op is qb Flameproof is added)			
Protection Standards	(IEC) EN 60079-0, (IEC) EN 60079-1, (IEC) EN 60079-5, (IEC) EN 60079-7, (IEC) EN 60079-18, (IEC) EN 60079-28, (IEC) EN 60079-31			
Area Classification	Zone 1 and 2 areas to EN 60079-10-1, Zone 21 and 22 areas to EN 60079-10-2.			
Installation	EN 60079-14			
Certificate	IECEx Certificate of Conformity IECEx CML 16.0108X EU Type Examination Certificate CML 16ATEX3335X UK Type Examination Certificate CML 21UKEX1499X			
Equipment Coding	Ex eb mb op is qb IIC T4 Gb or Ex db eb mb op is qb IIC T4 Gb Ex tb IIIC T95°C Db IP6X (-20 to +45°C Insulated, +55°C Uninsulated)			
ATEX/UKEXCoding	II 2 G D			
Ingress Protection	IP65 to EN 60529			
CE	The CE marking of this product applies to "The Electrical Equipment (Safety) Directive", The Electromagnetic Compatibility Directive", the "Waste Electrical and Electronic Equipment Directive" and the "Equipment and Protective Systems intended for use in Explosive Atmospheres Directive". [2014/35/EU, 2014/30/EU, 2012/19/EU and 2014/34/EU respectively].			
UK CA	The UKCA marking of this product applies to "The Electrical Equipment (Safety) Regulations 2016", "The Electromagnetic Compatibility Regulations 2016", the "Waste Electrical and Electronic Equipment Regulations 2012" and the "Equipment and Protective Systems intended for use in Explosive Atmospheres Regulations 2016			
	The Equipment is declared to meet the provisions of the ATEX directive (2014/34/EU) by reason of the Type Examination/EU Type Examination and meets the UK statutory requirements SI 2016 No.1107 and compliance with the Essential Health and Safety Requirements. M Poutney Technical Manager			

SPECIAL CONDITIONS FOR SAFE USE

- Connections to the terminals must not be made outside the range of -10°C to +80°C.
- Where used, all terminal screws, used and unused, shall be tightened down to between 1.2 Nm and 2Nm.
- The Ex q driver is sealed and must not be opened without returning it to the manufacturer.

Luminaire is supplied with Battery disconnected, just prior to switching power on connect battery.

1.0 Introduction – Curie Elite

The Curie Elite LED series is available as non-modular and modular recessed clean area luminaire for use with Ex mb LED strips with the option of an internal battery back up for emergency use. The non-modular is suitable for cut or prepared aperture ceilings. The modular is suitable for Exposed T and Spring T modular grid ceilings. The Curie Elite models have Ex q control gear and micro-processor controlled emergency functions. Normal operation is mains supply with all lamps on, switching to reduced output on battery back up and having local switching of the mains lamps, the emergency function only being energised on mains failure.

The luminaries are available in for Modular and Non Modular Ceilings.

Refer to the current catalogue for information on product references.



B15 SOLAS The luminaire can be installed to interface with fire resistant ceiling systems to maintain a B15 SOLAS fire rating; the integrity of the ceiling and insulation must be maintained using suitable insulation materials. The ceiling/fitting and insulation should be continuous (without any gaps), care must be taken to maintain this classification.

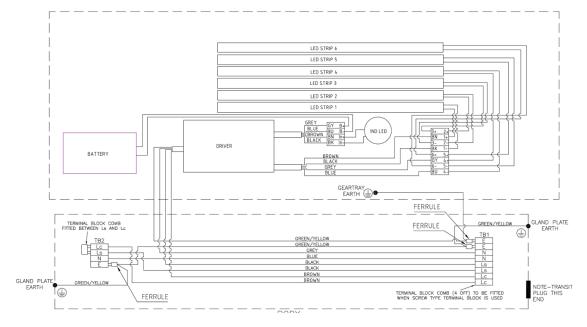
2.0 Electrical Supplies

Nominal Lamp Power and Supply Current

Lamps	03L - 6x 400mm LED Strip			
Voltage range AC	110-130V or 220 – 254V			
Frequency range Hz	47-63Hz			
Power Watts 220-254V	64W EM, 61W NON EM			
Current Amps 220-254V	0.30 – 0.26A EM	0.29 – 0.25A NON EM		
Power Watts 110-130V	64W EM, 61W NON EM			
Current Amps 110-130V	0.61 - 0.51A EM	0.59 – 0.50A NON EM		

Batteries	6V 7Ah NiCd
Emergency Duration	90 minutes or 3 hours depending on model specified
Power Factor >0.98	Power is constant over voltage range.
Over voltage	400V ac for 1 min and EN 61000-4-5 > 4kV
Through Wiring	The through current rating is 16A. 4mm ² terminals are standard (6mm ² wiring can be used in the terminals in accordance with the luminaire certificate).
Tamb Storage	-40°C to +80°C
Storage	Luminaires and control gear boxes are to be stored in cool dry conditions preventing ingress of moisture and condensation. Battery packs in storage should be cycled charged/discharged/charged every 9 months, as per instructions in section 5.6. Always disconnect battery plug and socket for storage . Any specific instructions concerning emergency luminaires must be complied with. (Warning: Battery packs not cycled and stored for a year may not be recoverable)
Fuse and MCB Ratings	It is recommended that for selection of MCBs users should consult the MCB manufacturer as this unit contains electronic control gear. MCB ratings can vary depending on the manufacturer and type and the size of the installation. The electronic control gear has nominal values of inrush current of 35A for 70µs on 230V and 70A for 70µs on 110V.





TYPICAL WIRING FOR EMERGENCY VERSION

3.1 General

These instructions should be read fully and carefully before attempting to install the luminaire. For details of servicing operations, opening etc. see section 6.

Copies of these instructions should be held in a safe place for future reference. It is the responsibility of the installer to ensure that the apparatus selected is fit for its intended purpose and that the installation, operation and maintenance of the apparatus complies with applicable regulations, standards or codes of practice.

There are no health hazards associated with this product whilst in normal use, however, care should be exercised during the following operations.

Installation should be carried out in accordance with EN 60079-14 or with a local hazardous area code of practice, whichever is appropriate. Any specific installation instructions must be referred to. In the UK the requirements of the *Health and Safety at Work Act* must be met and electrical work associated with this product must be in accordance with the *"Manual Handling Operations Regulations"* and *"Electricity at Works Regulations 1989"*. Disposal instructions should be complied with.

The luminaires should be considered Class 1 to EN 60598 and effectively earthed.

The polycarbonate diffuser, if fitted, presents a potential source of ignition by **electrostatic electricity**. The diffuser should only be cleaned using a damp cloth. The luminaire should not be mounted very near to any probable location of fast moving stream of dry air, steam etc. which could generate a propagating brush static discharge.

To avoid applying static charge or scratching the diffuser:

- Never handle the polycarbonate diffuser with bare hands, use lint free gloves and carry using the frame.
- Never polish the diffuser with a dry cloth.
- If, due to site conditions the diffusers become dirty, they should be cleaned with an airgun. If smears are difficult to remove use a bucket of lukewarm soapy water and allow to dry naturally with the frame standing vertically. Do not polish dry as this will reapply static charge. Use only the recommended detergent at the stated concentration.

Certification details on the rating plate must be verified against the application requirements before installation.

The presence of certain chemicals in the explosive atmosphere may cause a chemical reaction with non-metallic materials such as the polycarbonate diffuser and silicone/EPDM gaskets that could have detrimental effect on their performance. Chemical compatibility is highly dependent on concentration, temperature, humidity and other environmental conditions. The end use will assume responsibility for evaluation of gaseous or direct contact compatibility at their site prior to product installation. If in doubt please contact Chalmit sales.

The luminaire is tested to EN 60598-1.



The information in this leaflet is correct at the time of publication. The company reserves the right to make specification changes as required without notice.

3.1.1 Use in Combustible Dust Atmospheres

Where the equipment is used in combustible dust atmospheres, reference must be made to the selection and installation standards in order that the equipment is used correctly. In particular this applies to the de-rating of surface temperature for use where dust clouds may be present.

Refer to EN60079-10-2 & EN 60079-14 for additional details of selection, installation and maintenance

3.1.2 Hybrid Mixtures – Gas plus Dust.

Where Hybrid mixtures exist as defined in EN1127 as a potentially explosive atmosphere, consideration should be given to verifying that the maximum surface temperature of the luminaire is below the ignition temperature of the hybrid mixture.

3.2 Tools

12mm , 4mm and 3mm flat blade screwdriver. Socket head torque screwdriver. Suitable spanners for installing cable glands.

Pliers, knife, wire strippers/cutters.

3.3 Electrical Supplies

Luminaires are supplied with control gear suitable for the following rated supplies

Emergency 110-130V and 220-254V ac

Non-emergency 110-130V and 220-254V ac

The safety limit for surface temperature (T rating) is +/-10% on the rated voltage. Equipment should not be operated continuously at more than +10/-10% of the rated voltage of the control gear. The power factor correction gives a minimum of 0.95 lagging. The lamp supply is regulated therefore the change in light output over the supply range is substantially unchanged.

3.4 Mounting

Luminaires should be installed where access for maintenance is practical and in accordance with lighting design information. Refer to the note in 3.1 concerning electrostatic charge.

Non-modular types: Prior to mounting remove front cover by undoing screws, releasing the safety chains and removing the gear tray; put front cover into a safe and clean place so as not to accumulate dust. Remove bag containing disposable caps from inside the luminaire. Ensure suspension brackets are flush with sides prior to positioning into the ceiling, ensuring that no cable is trapped. Position luminaire until the front flange meets the ceiling face.

Support into position from below. The ceiling suspension is activated from in front of the ceiling using a socket head torque screwdriver. Rotate the suspension bolt heads anticlockwise and the suspension arm will then activate and swing outwards, it then travels down onto the ceiling batten. Once contact has been made, gradually tighten until the recommended torque of 1Nm has been reached. Confirm torque of bolts upon completion of this operation. When the assembly is complete fit the plastic caps.

Modular Types: Remove cover and gear tray and put into a safe place. Remove ceiling suspension cams from the sides of the luminaire.

Exposed T ceilings: Remove adjacent ceiling tiles from the sides of the luminaire, push the luminaire into the ceiling aperture and whilst supporting, fit two of the cams on diagonally opposite corners and screw in place. The luminaire is now temporarily supported and remaining cams may be now fitted. The cam brackets should now be gradually rotated clockwise until the compression gasket is over half compressed. This should be done in sequence so as not to buckle the ceiling or damage the fitting by over stressing at any point.

Spring T ceilings: Remove the adjacent tiles from the sides where the ceiling suspension mates. Push the body of the luminaire into the ceiling aperture ensuring the body sits centrally in the ceiling structure. Fit two of the cams on diagonally opposite corners and screw in place. The luminaire is now temporarily supported and remaining cams may be now fitted. The cam brackets should now be gradually rotated clockwise until the front cover is flush/level with adjacent tiles. This should be done in sequence so as not to buckle the ceiling or damage the fitting by over stressing at any point.



Suspension mount holes: If using the 4 additional suspension mount holes on the rear of the fitting, please ensure the sealing washers are fitted and torqued to a value of 2.5Nm.

3.5 Cabling and Cable Glands

The temperature conditions at the supply cable entry point are such that 70°C (ordinary PVC) cable can be used. The installer and user must take responsibility for the selection of cables, cable glands and seals.

The product is certified for ATEX, IECEx and UKEX and to comply with the certification for installation cable glands and sealing plugs must be ATEX, IECEx or UKEX certified depending on site requirements.

The cable and gland assembly when installed must maintain a minimum IP65 rating.

Where the cable *is not reliably clamped* externally to the apparatus the cable gland must clamp the cable against a pull in Newtons of 20 x the cable OD in mm.

Four entries suitable for M20 are provided. Three entries are fitted with suitably approved blanking plugs, the fourth entry with a transit plug. Other sizes are available on request.

3.6 Electrical Connections and Testing

If work is to be done on any luminaire already connected to the electrical system, the luminaire must be isolated from the system. Access for the cabling is via removal of front cover and lamp tray. The front cover is secured using 6/10 off M6 captive screws, care to be taken as there is no suspension on this, and lampholder tray is secured by M5 screws and keyhole slots, with chain suspension allowing the tray to swing down, giving access to terminal blocks. Install the conductors in the appropriate terminals. Take care not to cut the conductor insulation excessively, 1mm of bare conductor outside the terminal throat is a maximum. Before re-fitting lampholder tray and front cover, the cores/cable should be neatly tucked away and a final check made on correct connections.

Luminaires are supplied suitable for looping and through wiring.

The through current rating is 16A. 4mm² terminals are standard (6mm² wiring can be used in the terminals as per the certificate).

Screw type or screw-less "cage clamp" terminals are fitted in the range of luminaires. Mains terminal blocks are marked L N Earth.

Mains terminal blocks on the emergency luminaires are marked Lc Ls N Earth.

Luminaires can also be supplied with three phase wiring to special order. The marking is L1 L2 L3 L s N Earth The emergency units can be connected as switched, un-switched or non-maintained units. The switching facility is to allow the luminaire to be switched off whilst still charging the battery. Where switching is required, the unswitched line (Lc) is connected to the continuous mains supply. A link is fitted during assembly between Lc and switched line (Ls); this is removed for the switch-able mode. If the link is removed and Ls not supplied, the unit will only operate on emergency.

4.0 Emergency Operation

4.1 General description of operation

The luminaire will go seamlessly into emergency mode at not less than 60% rated supply voltage and will remain in mains mode above 85% of rated supply voltage.

The charging function is monitored continuously, there is a check for over charging and no charging. In case of a control gear error, the indicator will flash quickly on and off. Batteries will fully charge within 24hrs. After a complete battery discharge, the unit will switch over to a low discharge current mode.

LED display

The status is displayed by means of green LED signals.

The LED will flash slowly, if the batteries are being charged.

The LED will be steady at full charge.

The LED will flash quickly if there is a fault or a warning.

The LED will be off during emergency operation.

Low Temperature Operation

At battery temperatures below 10° C charge current is reduced and charge time increased. This temperature is equivalent to the luminaire operating at -5°C with the lamps on or at +5°C with the LEDs off.

Under operating conditions where the ambient temperature is below 0°C for long periods the luminaire should preferably be used in maintained mode so that the mains supplied LEDs warm up the battery to a normal working temperature.



5.0 Servicing and Operation Safe servicing behind the gear tray requires the mains supply to be isolated. 5.1 Opening and Closing front cover.

The front cover is secured using up to 10 off M6 captive screws. Do not remove plastic caps on non-modular types by levering with a screwdriver as this will damage the paint finish and create a bacterial trap. Use a self-tapper to screw into the cap and then pull out.

5.2 Releasing the Reflector/Gear Tray

Loosen the four fixing screws retaining the reflector/gear tray far enough for it to slide over keyhole slots. The tray will hang on the retaining cords without stressing the wiring between body and tray. Replace in reverse order.

5.3 Servicing Behind the Gear Tray

The release of the gear tray exposes live mains terminals. Any work behind the gear tray requires that the supply is isolated to avoid ignition risk and damage to components.

5.4 Replacement of Driver

The driver contains no serviceable parts. Should it be found necessary to replace the driver, the following procedure should be adopted: Ensure that the luminaire is isolated from the mains supply.

Remove gear tray from body and swing down as previously explained. Disconnect the driver wires from the terminal blocks (note the connections) and remove the driver from the tray.

5.5 Replacement of battery

Replacement/ connection of Battery can only take place when there is NO Explosive gas or dust atmosphere present.

The battery is supplied complete with bracket and terminal connections. When removing battery pack, disconnect wires coming from driver to battery terminal connections (wires from battery pack must stay connected to the terminal block) and remove battery assembly. Replace in reverse.

Consult wiring diagram supplied with replacement battery pack for details.

The battery packs are not intended to be opened and are replaced as a unit. The battery assembly must be protected from damage and water ingress then removed from any potentially hazardous area as soon as practical.

The luminaire must not be operated without the battery connected. If the battery is removed and not replaced, the control gear supply must be disconnected at the mains terminal block and secured.

5.6 Checking of Battery separately

If the battery is to be checked separately, it should be charged using a **constant current charger** at 200/400mA for 30/15 hours for the 4Ah (02L) or 350/700mA for 30/15 hours for the 7Ah (04L). Discharge measurement is not easy as the current is proportional to the voltage for resistance loads, so it has to be averaged. Discharge the battery at 1 to 2A and multiply current by time. Do not discharge below 1 volt per cell, which is 5V. The capacity should be 75% or more of normal.

6.0 Routine Maintenance

Visual tests and checks should be carried out at intervals described by the appropriate regulations, EN 60079-17, and should include the following:

- Check for mechanical damage/corrosion.
- Check connections, fixings, glands and plugs.
- Check for undue accumulations of dust, dirt or moisture.
- Check for unauthorised modifications.

Periodic inspection of the enclosure seal should be carried out to ensure that the seal is sound. If the luminaire has been subject to abnormal conditions, for example, severe mechanical impact or chemical spillage, it must be de-energised until it has been inspected by an authorised and competent person



6.1 Cleaning

The body of the luminaire may be cleaned with a mild solution of household detergent and water, after cleaning the body should be washed and wiped with clean water. The diffuser should not be polished or wiped with a dry cloth as a risk of ignition due to electrostatic discharge may result. Cleaning of the diffuser with any chemical or hydrocarbon solvent based cleaner may result in severe damage.

7.0 Disposal of Material

General Disposal of Material

Any disposal must satisfy the requirements of the <u>WEEE directive [2012/19/EU and Regulations 2012]</u> and therefore must not be treated as commercial waste. The unit is mainly made from incombustible materials. The control gear contains plastic resin and electronic components. All electrical components may give off noxious fumes if incinerated.

7.1 Battery Disposal

Nickel cadmium batteries are defined as 'controlled waste' under the hazardous waste regulations and the person disposing needs to observe a 'duty of care'.

Batteries can be returned to the manufacturers for recycling. They must be stored and transported safely and any necessary pollution control forms completed prior to transportation. Take care to fully discharge batteries before transporting, or otherwise ensure that there can be no release of stored energy in transit. For further details refer to our Technical Support Department.



To comply with the Waste Electrical and Electronic Equipment directive 2012/19/EU and Regulations 2012 the apparatus cannot be classified as commercial waste and as such must be disposed of or recycled in such a manner as to reduce the environmental impact.

Chalmit Lighting is a leading supplier of Hazardous Area lighting products

Chalmit		CHALMIT LIGHTING PO Box 5575 Glasgow, G52 9AP Scotland		R
Telephone: Fax: Email: Web:	+44 (0) 141 882 5555 +44 (0) 141 883 3704 info@chalmit.com www.chalmit.com		Registered No: Registered Office	669157 c: Cannon Place 78 Cannon Street London EC4N 6AF UK

For technical support, please contact: techsupport@chalmit.com

Note: Chalmit Lighting reserves the right to amend characteristics of our products and all data is for guidance only.



\$ \$		ation of conformity					
		Déclaration de conformité Konformitätserklärung					
학습학	EU-Konformit	atserklarung					
N							
		Chalmit Address	Chalmit Address 388 Hillington Road, Glasgow. G52 4BL Scotland UK Curie Elite (LED) Emergency Luminaire.				
Product		, , , , , , , , , , , , , , , , ,					
Notified Body			CML B.V. 2776				
EU Type Examination Certificate		CML 16ATEX3335X	CML 16ATEX3335X				
Approved Body		Eurofins CML 2503	Eurofins CML 2503				
UK Type Examination Certificate		CML 21UKEX1499X					
ATEX/UKEX C	oding	⟨£x⟩ II 2 GD	Ex II 2 GD				
ATEX/UKEX C	lassification	Group II Category 2 GD					
Equipment Coo	ding	Ex e mb qb IIC T4 Gb or Ex	•	C < To < 155°C uninculated			
Ingress Protect	tion	Ex tb IIIC T95°C Db IP6X -20°	$5 \le 18 \le +45$ C insulated (-20)	$C \leq Ta \leq +55$ C uninsulated			
	basis, with respect						
		cerne l'équivalence de					
	Grundlage hinsich						
		-0, EN 60079-1, EN 60079-5, EN 60079-	7 EN 60079-18 EN 60079-28 E	N 60079-31			
		1 and EN 60079-10-2	7, EN 00070 10, EN 00070-20, E				
produit.							
zur Erfüllung d	er GSGA ist gegeb	en, da keine Änderungen erfolgt sind, die	einen Einfluss auf den technische	n Stand des Produkts haben.			
zur Erfüllung de Terms of the d		en, da keine Anderungen erfolgt sind, die	einen Einfluss auf den technische Standard & Date Certified to	n Stand des Produkts haben. Standards Date Declared to			
	irective:	en, da keine Anderungen erfolgt sind, die	1				
Terms of the d	irective:	en, da keine Anderungen erfolgt sind, die	Standard & Date Certified to	Standards Date Declared to			
Terms of the d Prescription de Bestimmungen	irective: la directive: der Richtlinie:		Standard & Date Certified to Standard & date certifiée à Standard & Datum Zertifiziert	Standards Date Declared to Normes date Déclaré			
Terms of the d Prescription de Bestimmungen 2014/34/EU	irective: la directive: der Richtlinie: Equipment	and protective systems intended for use	Standard & Date Certified to Standard & date certifiée à Standard & Datum Zertifiziert nach	Standards Date Declared to Normes date Déclaré			
Terms of the d Prescription de Bestimmungen 2014/34/EU	irective: la directive: der Richtlinie: Equipment in potentiall	and protective systems intended for use y explosive atmospheres.	Standard & Date Certified to Standard & date certifiée à Standard & Datum Zertifiziert nach EN 60079-0 : 2012	Standards Date Declared to Normes date Déclaré			
Terms of the d Prescription de Bestimmunger 2014/34/EU SI 2016 No.110	irective: la directive: der Richtlinie: Equipment in potentiall Appareils e	and protective systems intended for use y explosive atmospheres. t les systèmes de protection destinés à	Standard & Date Certified to Standard & date certifiée à Standard & Datum Zertifiziert nach EN 60079-0 : 2012 EN 60079-1 : 2014	Standards Date Declared to Normes date Déclaré			
Terms of the d Prescription de Bestimmunger 2014/34/EU SI 2016 No.110	irective: la directive: der Richtlinie: Equipment in potentiall Appareils e être utilise	and protective systems intended for use y explosive atmospheres.	Standard & Date Certified to Standard & date certifiée à Standard & Datum Zertifiziert nach EN 60079-0 : 2012 EN 60079-1 : 2014 EN 60079-5 : 2015	Standards Date Declared to Normes date Déclaré			
Terms of the d Prescription de Bestimmungen	irective: la directive: der Richtlinie: Equipment in potentiall Appareils e être utilise explosibles.	and protective systems intended for use y explosive atmospheres. t les systèmes de protection destinés à	Standard & Date Certified to Standard & date certifiée à Standard & Datum Zertifiziert nach EN 60079-0 : 2012 EN 60079-1 : 2014 EN 60079-5 : 2015 EN 60079-7 : 2015	Standards Date Declared to Normes date Déclaré			
Terms of the d Prescription de Bestimmunger 2014/34/EU SI 2016 No.110	irective: la directive: der Richtlinie: Equipment in potentiall Appareils e être utilise explosibles.	and protective systems intended for use y explosive atmospheres. t les systèmes de protection destinés à és en atmosphères potentiellement	Standard & Date Certified to Standard & date certifiée à Standard & Datum Zertifiziert nach EN 60079-0 : 2012 EN 60079-1 : 2014 EN 60079-5 : 2015 EN 60079-7 : 2015 EN 60079-18:2015	Standards Date Declared to Normes date Déclaré			
Terms of the d Prescription de Bestimmunger 2014/34/EU SI 2016 No.110 2014/34/UE 2014/34/EU	irective: la directive: der Richtlinie: Equipment in potentiall Appareils e être utilise explosibles. Geräte und gemäßen	and protective systems intended for use y explosive atmospheres. t les systèmes de protection destinés à és en atmosphères potentiellement Schutzsysteme zur bestimmungs-	Standard & Date Certified to Standard & date certifiée à Standard & Datum Zertifiziert nach EN 60079-0 : 2012 EN 60079-1 : 2014 EN 60079-5 : 2015 EN 60079-7 : 2015 EN 60079-18:2015 EN 60079-28 : 2015	Standards Date Declared to Normes date Déclaré			
Terms of the d Prescription de Bestimmunger 2014/34/EU SI 2016 No.110 2014/34/UE	irective: la directive: der Richtlinie: Equipment in potentially Appareils e être utilise explosibles. Geräte und gemäßen Bereichen.	and protective systems intended for use y explosive atmospheres. t les systèmes de protection destinés à és en atmosphères potentiellement Schutzsysteme zur bestimmungs-	Standard & Date Certified to Standard & date certifiée à Standard & Datum Zertifiziert nach EN 60079-0 : 2012 EN 60079-1 : 2014 EN 60079-5 : 2015 EN 60079-7 : 2015 EN 60079-18:2015 EN 60079-28 : 2015	Standards Date Declared to Normes date Déclaré			
Terms of the d Prescription de Bestimmungen 2014/34/EU SI 2016 No.110 2014/34/UE 2014/34/UE 2014/34/EU Regulations 20 2014/30/UE	irective: la directive: der Richtlinie: Equipment in potentially Appareils e être utilise explosibles. Geräte und gemäßen Bereichen. 16	and protective systems intended for use y explosive atmospheres. t les systèmes de protection destinés à és en atmosphères potentiellement Schutzsysteme zur bestimmungs- Verwendung in explosionsfähigen	Standard & Date Certified to Standard & date certifiée à Standard & Datum Zertifiziert nach EN 60079-0 : 2012 EN 60079-1 : 2014 EN 60079-5 : 2015 EN 60079-7 : 2015 EN 60079-8 : 2015 EN 60079-18:2015 EN 60079-28 : 2015 EN 60079-31 : 2014	Standards Date Declared to Normes date Déclaré			
Terms of the d Prescription de Bestimmungen 2014/34/EU SI 2016 No.110 2014/34/UE 2014/34/EU 2014/34/EU	irective: la directive: der Richtlinie: Equipment in potentiall Appareils e être utilise explosibles. Geräte und gemäßen Bereichen. 16 Compatibilit	and protective systems intended for use y explosive atmospheres. t les systèmes de protection destinés à és en atmosphères potentiellement Schutzsysteme zur bestimmungs- Verwendung in explosionsfähigen	Standard & Date Certified to Standard & date certifiée à Standard & Datum Zertifiziert nach EN 60079-0 : 2012 EN 60079-1 : 2014 EN 60079-5 : 2015 EN 60079-7 : 2015 EN 60079-8 : 2015 EN 60079-8 : 2015 EN 60079-31 : 2014	Standards Date Declared to Normes date Déclaré			
Terms of the d Prescription de Bestimmunger 2014/34/EU SI 2016 No.110 2014/34/UE 2014/34/UE 2014/34/EU 2014/30/EU 2014/30/UE 2014/30/UE	irective: la directive: der Richtlinie: Equipment in potentially Appareils e être utilise explosibles. Geräte und gemäßen Bereichen. 16 Compatibilit Elektromag	and protective systems intended for use y explosive atmospheres. t les systèmes de protection destinés à és en atmosphères potentiellement Schutzsysteme zur bestimmungs- Verwendung in explosionsfähigen netic compatibility é électromagnétique netische Verträglichkeit	Standard & Date Certified to Standard & date certifiée à Standard & Datum Zertifiziert nach EN 60079-0 : 2012 EN 60079-1 : 2014 EN 60079-5 : 2015 EN 60079-7 : 2015 EN 60079-8 : 2015 EN 60079-8 : 2015 EN 60079-31 : 2014 EN 55015 : 2019 EN 61547 : 2009	Standards Date Declared to Normes date Déclaré			
Terms of the d Prescription de Bestimmungen 2014/34/EU 2014/34/UE 2014/34/UE 2014/34/UE 2014/30/EU 2014/30/EU 2014/30/UE 2014/30/EU 2014/30/EU 2014/30/EU 2014/30/EU 2014/35/EU Regulations 20	irective: la directive: der Richtlinie: Part	and protective systems intended for use y explosive atmospheres. t les systèmes de protection destinés à és en atmosphères potentiellement Schutzsysteme zur bestimmungs- Verwendung in explosionsfähigen netic compatibility é électromagnétique netische Verträglichkeit	Standard & Date Certified to Standard & date certifiée à Standard & Datum Zertifiziert nach EN 60079-0 : 2012 EN 60079-1 : 2014 EN 60079-5 : 2015 EN 60079-7 : 2015 EN 60079-8 : 2015 EN 60079-8 : 2015 EN 60079-31: 2014 EN 55015 : 2019 EN 61547 : 2009 EN 61000-3-2 : 2019 EN 60598-1 : 2015	Standards Date Declared to Normes date Déclaré			
Terms of the d Prescription de Bestimmungen 2014/34/EU SI 2016 No.110 2014/34/UE 2014/34/UE 2014/34/EU 2014/30/EU Regulations 20 2014/30/EU 2014/30/EU Regulations 20 2014/35/EU Regulations 20 2014/35/UE	irective: la directive: der Richtlinie: Equipment in potentiall Appareils e être utilise explosibles. Geräte und gemäßen Bereichen. 16 Compatibilit Elektromage 16 Low voltage	and protective systems intended for use y explosive atmospheres. t les systèmes de protection destinés à és en atmosphères potentiellement Schutzsysteme zur bestimmungs- Verwendung in explosionsfähigen netic compatibility é électromagnétique netische Verträglichkeit	Standard & Date Certified to Standard & date certifiée à Standard & Datum Zertifiziert nach EN 60079-0 : 2012 EN 60079-1 : 2014 EN 60079-5 : 2015 EN 60079-7 : 2015 EN 60079-8 : 2015 EN 60079-8 : 2015 EN 60079-31: 2014 EN 55015 : 2019 EN 61547 : 2009 EN 61000-3-2 : 2019	Standards Date Declared to Normes date Déclaré			
Terms of the d Prescription de Bestimmunger 2014/34/EU SI 2016 No.110 2014/34/UE 2014/34/UE 2014/30/EU 2014/30/UE 2014/30/UE 2014/30/UE 2014/30/EU	irective: la directive: der Richtlinie: Part Richtlinie: Part Richtlinie: Appareils e être utilise explosibles. Geräte und gemäßen Bereichen. Part Richtlinie Compatibiliti Elektromage Part Low voltage Équipement Niederspan	and protective systems intended for use y explosive atmospheres. t les systèmes de protection destinés à és en atmosphères potentiellement Schutzsysteme zur bestimmungs- Verwendung in explosionsfähigen netic compatibility é électromagnétique netische Verträglichkeit e equipment ts électriques à bas voltage	Standard & Date Certified to Standard & date certifiée à Standard & Datum Zertifiziert nach EN 60079-0 : 2012 EN 60079-1 : 2014 EN 60079-5 : 2015 EN 60079-7 : 2015 EN 60079-8 : 2015 EN 60079-8 : 2015 EN 60079-31: 2014 EN 55015 : 2019 EN 61547 : 2009 EN 615098-1 : 2015 EN 60598-2-22 : 2014	Standards Date Declared to Normes date Déclaré			



2012/19/EU	Entsorgung der elektrischen und elektronischen Geräte / Systeme	Nuclear Seismic IEC 60980-6 : 1993	
2011/65/EU Regulations 2012	RoHS II Directive		
Additional information:	The luminaire is capable of withstanding over voltage levels of up to 400V AC for 1 minute and impulse voltage surges of 4kV.		
Informations complémentaires:	Le luminaire peut supporter des niveaux de tensions juqu'à 400V CA pendant 1 minute et des tensions de choc de 4kV.		
Zusatzinformation	Dieser Strahler widersteht Überspannungen bis 400V AC 1 Minute lang sowie Stoßspannungen von 4kV.		

On behalf of the Chalmit, I declare that, on the date the equipment accompanied by this declaration is placed on the market, the equipment conforms to all technical and regulatory requirements of the above listed directives.

En tant que représentant du fabricant Chalmit, je déclare qu'à la date où les équipements accompagnant cette déclaration sont mis sur le marché, ceux-ci sont conformes à toutes les dispositions réglementaires et techniques des directives énumérées ci-dessus.

Hiermit bestätige ich, im Namen von Chalmit, dass am Tag der Lieferung des Produkts/der Produkte zusammen mit dieser Erklärung das Gerät/die Geräte alle technischen und regulativen Anforderungen der oben aufgeführten Direktiven erfüllt.

Name and Date			Technical Manager		~
Nom et Date	Mark Poutney	28/04/2021	Directeur technique	Malt	R()
Name und Datum			Technischer Leiter	1. est	
Quality Assurance Notification by:		SGS Fimko OY	Quality Management System Acreditation:		ISO 9001
Notification d'assurance qualité par:		0598	Certification du système de gestion de la qualité:		by/par/durch
Qualitätssicherungsnotifikation durch:			Qualitätsmanagementsystem Akkreditierung:		Loyd's Register
_			Certificate No./Certificat N°/Zer	rtifikat Nr.	LRQ 4005876
Quality Assurance Notification by:		SGS Baseefa			
		1180			