

We aim to
be... The
partner you
can trust

Our Company Profile



RYAN JULATON

*Regional Sales Manager
EPC & Oil and Gas*

06.06.22

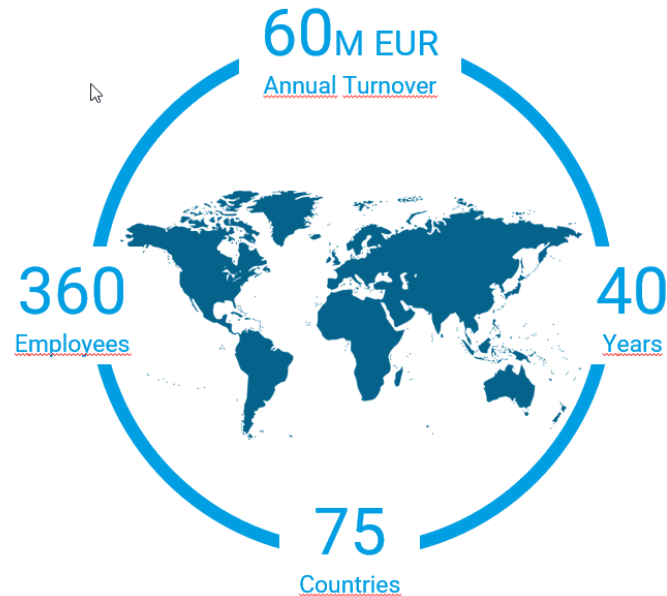


ZALUX

We are the European leader for luminaires with high protection ratings for challenging applications

Specialised in the development and manufacturing of reliable and durable luminaires for extreme conditions such as high / low temperatures, humidity and chemicals, hazardous areas, petrochemical plants, power plants and explosion proof.

- State-of-the-art machinery
- Best service and price / quality value
- Cutting-edge solutions focused on customer needs



Founded
in 1980



ZALUX at Glance

Founded in 1980

- Member of TRILUX Group since 2000. The biggest Lighting Company in Germany with about \$ 1 Trillion Annual Turn-Over invested in latest lighting Innovation.
- Passionate about customer service.
- Premium quality product range and best-in-class logistics procedures to become a leader in the lighting market.
- In house advance robotics assembly and state of the art production facilities from plastic raw materials to finished products.
- **Made in Spain** in our 42,000 m² plants in Alhama de Aragón with a specialized team of around 360 people.



Specialization and service

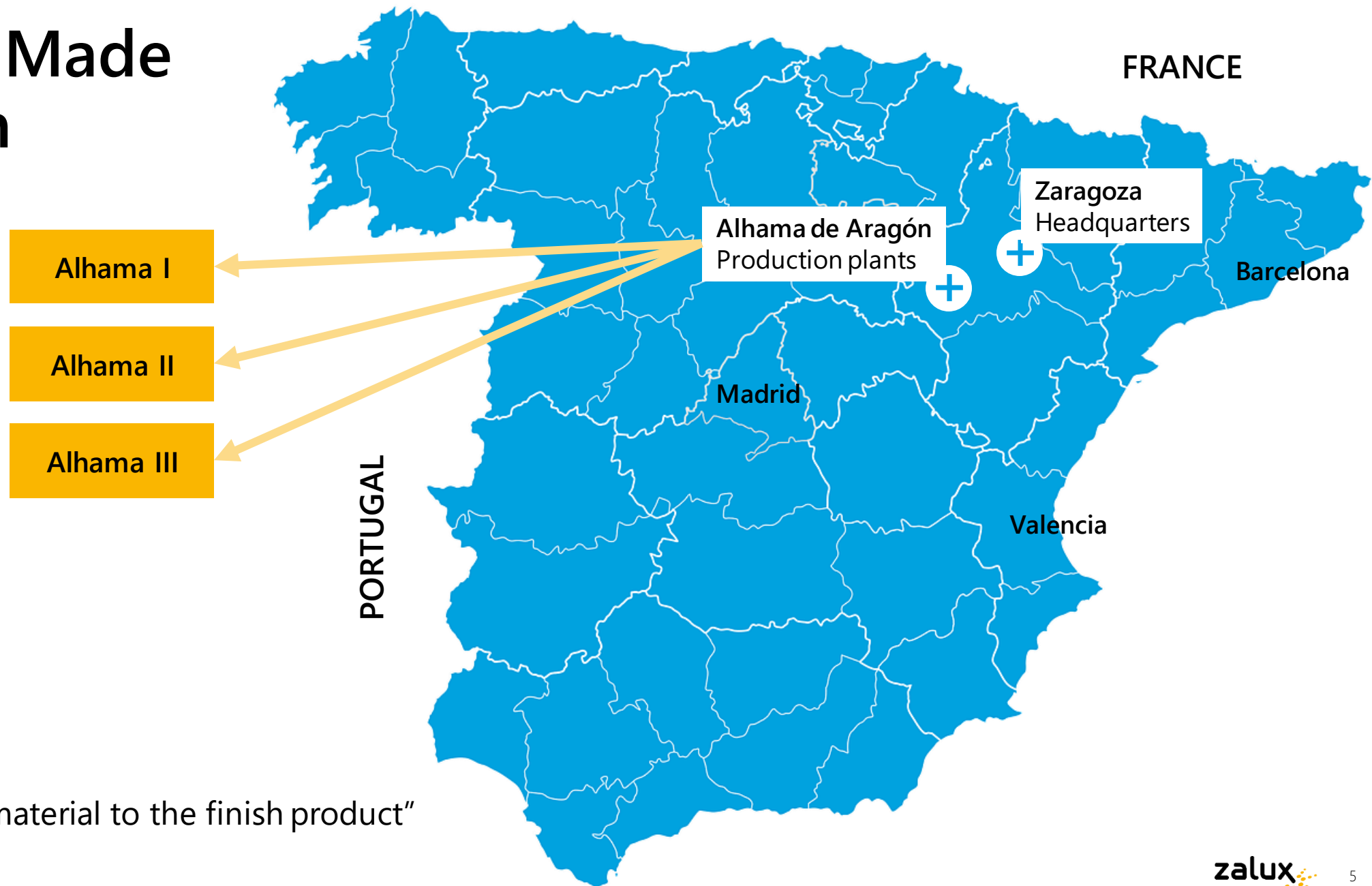
- We offer **complete lighting package solution** & Expertise in documentation process flow for Oil & Gas Projects and EPC demand requirements.
- Specific product range with a wide variety of models.
- **OEM partner:** design, engineering and manufacturing of bespoke lighting products to meet special needs.
- Efficient production process through automation, continuous improvement and environmental care.
- Focus on sustainable hazardous lighting application and provide high efficiency type of lighting fixture with digital features like sensors, dimming options, wireless control to help industry in energy savings.





Alhama de Aragón
Zaragoza, Spain

Quality Made in Spain



“From the raw material to the finish product”

Resources



Headquarters in Zaragoza, Spain

3 manufacturing plants in Alhama de Aragón

Quality Made in Spain



Alhama I

Plastic injection

Compression press

Extrusion



Alhama II

Metal workshop

Automated wiring robots

20 assembly lines for LED

Electronic components assembling



Alhama III

New assembling lines

1500m² premises

13 production lines



Laboratory

Thermal and endurance tests

IPX5 – X6 humidity tests

Impact tests

Product safety tests



Warehouse

10,000m² storage

For 5,800 Europallets

With advanced computer systems

Alhama I

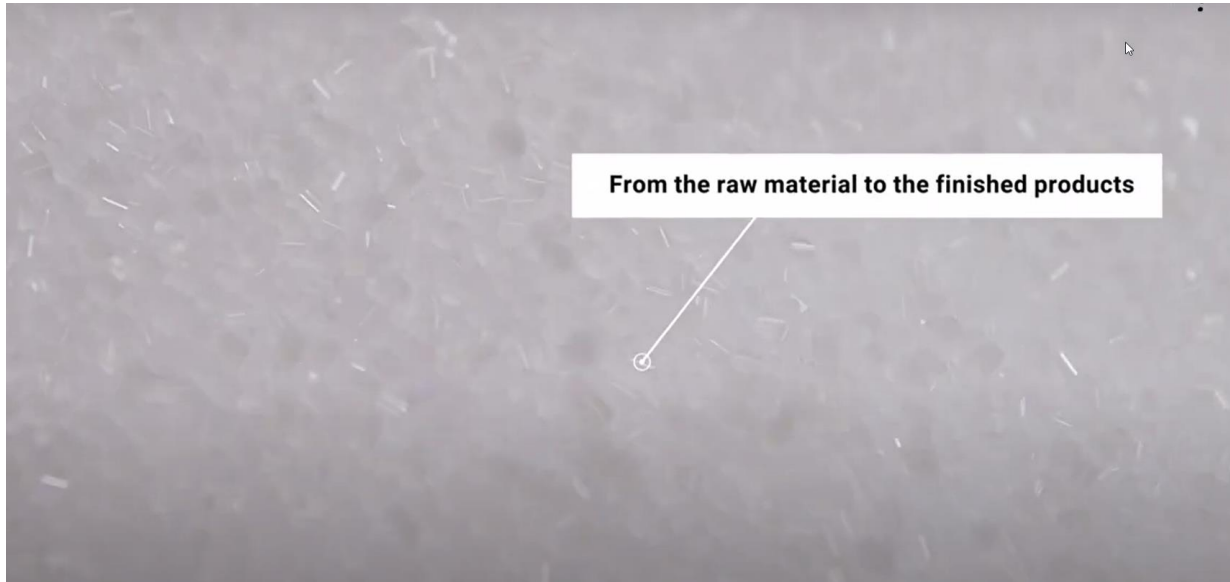
Plastic Injection • Compression Press

- Plastic Extrusion

Manufacturing of components:

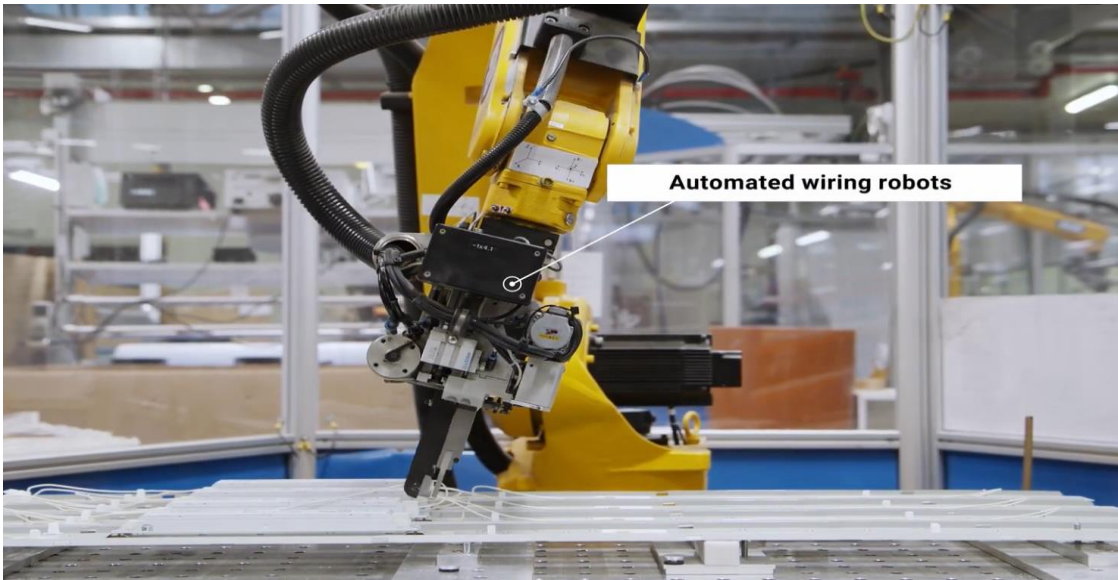
- Housings
- Diffusers
- Plastic clips & small components
- Optics for Luminaires

Polyurethane gaskets dispensing



Finished Products





Alhama II

100% Production Line Electrical Test

metal workshop • wiring • assembling •
logistics • special projects • laboratory

- 20 assembly lines for LED, ESD protected
- Electronic components assembling
- Silicone gaskets
- Automated wiring
- Metal workshop

- Explosion Proof Lighting Product Assembly

- Laboratory



**Gas tight process for luminaires
suitable for outdoor and off-shore applications**

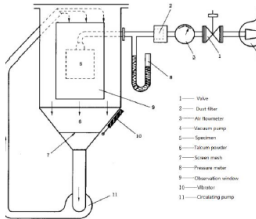
ZALUX In-House Laboratories

Electromechanical Safety Laboratory



Moisture and Humidity Tests acc.to EN 60598-1, EN 60529

- IPX5 and IPX6 water-jet proof luminaires.
- IPX9K preliminary assessment.



Dust Tests acc.to EN 60598-1, EN 60529

- IP5X and IP6X dust proof luminaires.



Impact Tests acc.to EN 60598-1, EN 50102, EN 60068-2-75

- Spring Hammer for IK02...IK07.
- Vertical Hammer for IK06...IK08 (IK10 coming soon).

Photometrical laboratory



A wide range of photometrical measurements is coming soon...

- Photometric Curves, Im, lm/W measurements.
- eulumdat Files.
- Photobiological Safety Assessment.
- % Flicker and Flicker Index.
- Spectrum Analysis.
- LM-80 and TM-21 Test Reports under request.

Alhama III

Assembling • special projects

- New space to increase assembling capacity

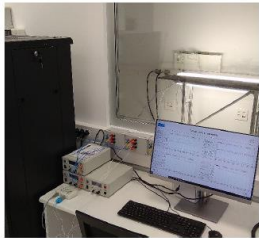


Electromechanical Safety Laboratory



Product Safety Tests acc.to EN 60598-1, EN 60598-2-1, EN 60598-2-22, EN 60598-2-24

- Test Reports with a complete assessment in different luminaire safety items such as:
 - Classification, marking, construction, wiring, earthing, protection against electric shock, resistance to dust, solid objects and moisture, insulation and electric strength, creepage distances and clearances, endurance, resistance to heat, fire and tracking and others under request.



Thermal Tests acc.to EN 60598-1, EN 60598-2-1, EN 60598-2-22, EN 60598-2-24

- Performance measured up to 60°C. Controlled and monitored room temperature.
- No air flux, up to 16x different measuring points/luminaire.
- Different possibilities under study: with/w-out through wiring, different DALI/1-10V/0-10V/prog steps, abnormal conditions, battery operation (only for emergency luminaires).
- Yearly capacity rate: near 2,000 tests.

Electromechanical Safety Laboratory



Other E-LAB type tests

- Load Suspension Test (EN 60598-1)
- Glow Wire Test (EN 60598-1)
- Traction Test (EN 60598-1, internal specifications)
- Electrical Characteristics (fully custom, under request)
- Fork-Lift Transport Test (ISTA3B-Fork)
- Outdoor Test (internal specifications)
- Free-Silicon Test (Chemical Lab)



From small series to mass production

3,5 Million luminaires per year	
Injected (diffusers & housings)	16,000 units/day
SMC housings	14,000 units/day
Extruded luminaires	10,000 units/day
IP luminaires FL & LED	15,000 units/day
Gear trays	10,000 units/day
Other luminaires (downlights, battens)	4,000 units/day

Quality and Sustainability

5 YEARS
warranty



Certified quality management system Procedure according to ISO 9001:2015



Certification in accordance with ISO 14001:2015 with **strict environmental standards** in our manufacturing sites



European conformity 2004/108/EC for Electromagnetic Compatibility, 2006/95/EC for the production of luminaires and 2009/125/EC for **ecodesign**



European **ENEC** mark: electrical products that comply with **European standards**. Electromagnetic compatibility (EMC) Directive 2014/30/EU



Compatibility for **safety approval** certification is confirmed by the Certification Body (CB) of each standard based on the test result provided by the authorized test laboratory



Compliance with the specifications of foodstuff legislation in accordance with **Regulation (EU) No. 852/2004 (HACCP)** for luminaires, and can be used in applications where foodstuffs are processed, handled and packed

RoHS

RoHS Directive 2011/65/CE about the restrictions of six hazardous materials in the manufacture of electronic and electrical equipment

REACH

European Union Regulation (EC) 1907/2006 concerning Registration, Evaluation, Authorization and Restriction of Chemicals (**REACH**)



Luminaires intended for use in **potentially explosive atmosphere** in compliance with the health and safety requirements specified in Directive 2014/34 UE (**ATEX**)



Luminaires intended for use in **potentially explosive atmosphere** in compliance the voluntary **IECEx Equipment Certification Scheme** to facilitate acceptance around the world



Explosion Proof Lighting Applications

OIL AND GAS PLANT

POWER PLANT

FOOD PROCESSING PLANT



Downstream - Oil Refinery



Downstream - Petrochemical



Power Generation Plant



Sugar Refinery



Offshore Platform



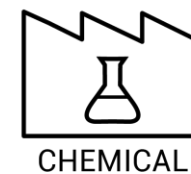
Floating Processing Plant



Desalination Plant



Fertilizer Plant



We aim to
be... The
partner you
can trust



Oil and Gas End User
and EPC Registration

zalux 

Registered Vendor for Hazardous Area Solutions End Users



Aramco Overseas in Netherland Confirmed by email dated December 03, 2020 Authorization to Propose and Supply products to EPC and Direct Local Entity in Saudi Arabia Projects.

Vendor Numbers:

- ADNOC: 11950203
- OMAN OIL: 5862
- KOC: 41928
- QAFCO: 14451
- SARAWAK: ID1527885781
- SABIC: 11050751
- DRYDOCKS: ZA0027
- LUKOIL ME: 15406
- TATWEER: 7325
- OXY OIL

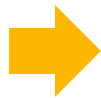


And other oil and gas end user registration in process, in companies like KNPC, BAPCO, Qatar Gas, Petronas, REPSOL, PTTEP, Tupras, PDO, Emirates Oil and more...



Pre-Qualification In-Progress
Final Approval 2022 Q2

Registration Reference: PPML 1198



Pre-Qualification Submitted for
approval 2022 Q3



Pre-Qualification in process for
approval 2022 Q4



Pre-Qualification Submitted for
approval 2022 Q3



Final Pre-Qualification in
process for approval 2022 Q3



Pre-Qualification in Process for
Approval 2022 Q4



Pre-Qualification in Process for
Approval 2022 Q4



Pre-Qualification in Process for
Approval 2022 Q4

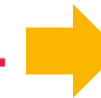
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Pre-Qualification In-
Progress Final Approval 2022 Q2



Pre-Qualification in process for
approval 2022 Q3. Registered
through local Malaysian Partner



Pre-Qualification in process for
approval 2022 Q3



Pre-Qualification in process for
approval 2022 Q4



Shell Global



Pre-Qualification in process for
approval 2022 Q3



Pre-Qualification in process for
approval 2022 Q4



Pre-Qualification in Process for
Approval 2022 Q4



Pre-Qualification in Process for
Approval 2022 Q4

Registered Vendor in Major EPC Companies

Vendor Numbers:

- Tecnicas No. Z000000189
- Petrofac No. 7616
- Tekfen Engg No. 101556
- ENPPI No. 9470
- Samsung C&T No. 492804
- McConnel Dowell No. 115169
- Maire Tecnimont No. 100060735
- Lamprell No. 4413202
- Sapura No. S26919393
- CTCL Corp. SCM0013045

- Others Approval For EPC does not need Vendor ID



Petrofac



And other registrations in process...

And more approvals in EPC companies



SAMSUNG ENGINEERING



Making our world
more productive



TEKFEN CONSTRUCTION

ENKA



Major Project References

Project: Garraf OilField Power Plant
EPC: SEPCO3 Electric Construction)
Owner : Petronas Carigali Iraq Holding



Project : ADNOC IGD Expansion Phase 2
EPC : Tecnicas Reunidas / Control Contracting



Project : Singapore Bertschi Oil Storage
Client : Berschi



Major Project Reference

Project: Flour Mills Processing Plant
Client : Kuwait Flour Mills



Project: Qatar Fertiliser Plant
Client: Qatar Fertiliser (QAFCO)



Project: Vegetable Oil Refinery
Client: Societe Des Huiles ET Derivatives



PRODUCT SUMMARY (Explosion Proof Lighting)

STRONGEX 2 **Zone 2, 22**

Extreme robustness and resistance against impacts and chemical agents

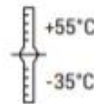


- Ex II 3G Ex ec IIC T5/T6 Gc
- Ex II 3D Ex tc IIIC T85...T100 Dc

ATEX certificate No: OBAC 20 ATEX 0334X

Up to 6,200lm
Up to 150lm/W
L80 100,000 h

IP66 / IP69K
IK10



ACQUEX **Zone 2, 22**

Extremely simply, safe and reliable for explosive atmospheres

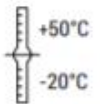


- Ex II 3G Ex ec IIC T6 Gc
- Ex II 3D Ex tc IIIC T85 Dc

ATEX certificate No: OBAC 19 ATEX 0206X

Up to 8,000lm
Up to 150lm/W
L80 100,000 h

IP66
IK10



PRODUCT SUMMARY (Explosion Proof Lighting)

KRATEX Zone 1, 21

Connected lighting with a wide range of options for ATEX projects

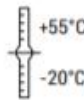


- II 2G Ex db IIC T6 Gb
- II 2D Ex tb IIIC T85 Db

ATEX certificate No: INERIS 20 ATEX 0006X
IECEX certificate No: IECEX INE 20.0005X

Up to 11,750lm
Up to 150 lm/W
L80 50,000 h

IP66
Pc: IK10
Glass: IK07 / IK09



OREX 1 Zone 1, 21 OREX 2 Zone 2, 21

High bay lighting specific for explosive environments

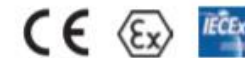
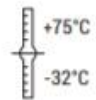


- II 2G Ex eb ib mb op is IIC T5...T4 Gb
 - II 2D Ex tb op is IIIC T95°C...T121°C Db
- OREX 1
- II 3G Ex ec op is IIC T5...T4 Gc
- OREX 2

ATEX certificate No: OBAC 21 ATEX 0135X
IECEX certificate No: IECEX OBAC 21.0003X

Up to 40,500lm
150lm/W
L80 90,000 h

IP66 / IP67
IK10



Product Summary (Protected Lighting Fixtures)



ZALUX BASE

Long-lasting, compact and resistant luminaire with quick and safe mounting.
Single part profile with up to 138lm/W. Wireless Bluetooth control optional.



ZALUX BASE PMMA

Extraordinary chemical resistance with up to 138lm/W.
Gas tight: hermetically sealed against liquid and gas income.



ZALUX BASE D.O.

Protects wine and champagne against photosensitivity.
With amber LED and very specific light spectrum.



DUNA FLEX

Versatile luminaire adaptable to different applications with up to 170lm/W and 15,000lm
Wireless Bluetooth control and sensor optional.



Product Summary (Protected Lighting Fixtures)



STRONGERTUBE

Robust and resistant against corrosion, ammonia and salty environments.
Thick PMMA profile with specific gas tight potting to avoid income of gases.



ZALEDA

Protection for indoor and outdoor applications with up to 167lm/W.
Excellent thermal management, suitable for high humidity areas.



EURLEDA

Completely made in Europe and designed for high temperatures up to 50°C.
With optional wireless Bluetooth control.



WHY ZALUX ?

1. Made in EU (Origin from Spain)



2. Reliability and Capacity

- Short Delivery Production Time
- 100% Line Production Electrical Testing
- First Class Plastic Raw Materials (Not Recycled) and Electrical Components from Premium International Brands

3. Sustainable Oil & Gas Industry

- Focus on producing plastic product with 100% Recyclable Materials
- Maintenance Free Explosion Proof Lighting Fixture with Lifetime until 100,000Hours

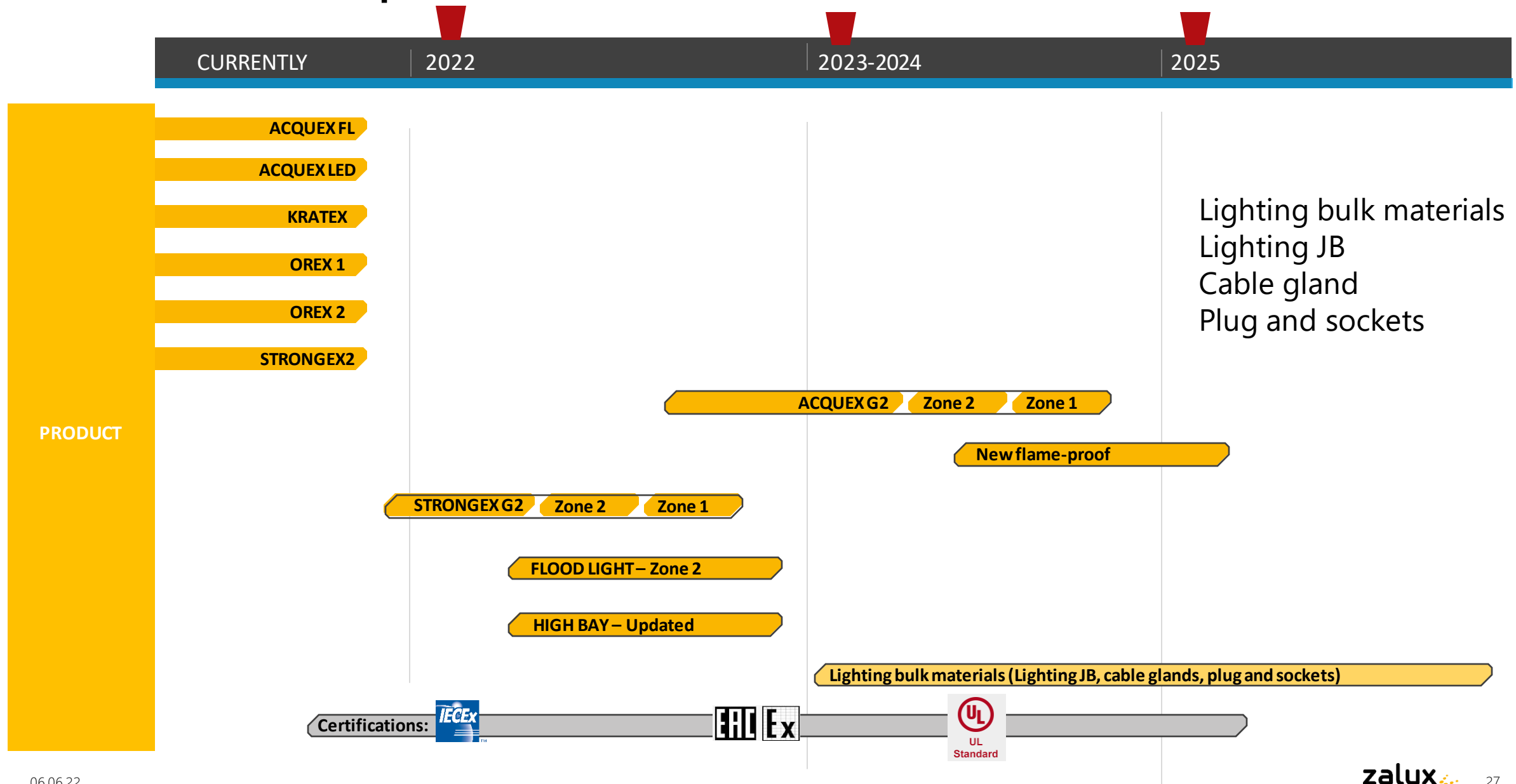
2. Real Manufacturer

- Manufacture from Raw Materials to Finished Product
- Expert for Plastic Lighting Solution
- In-House Production State Of the Art Facilities
- Self Sufficient from Small Parts of Plastics Components Up to Major Components of Housing and Diffuser

4. Efficiency Solution

- Minimum Efficiency of 150Lm/W
- Constant to reduce plant energy consumption reduction
- Sensor, DALI and Wireless Bluetooth Connection Solutions to improve energy Saving

ATEX 10 Roadmap





Thank you!