

- Long life
- Low maintenance costs
- Low energy consumption
- Incorporable brightness and safety

LED lights consume less energy and are more reliable and longer-lasting, providing savings in energy, maintenance and replacement costs. Specific benefits include:

Today's airports must manage increasing air traffic without compromising quality, resulting in new challenges in safety and security, operating costs, and environmental impact. OCEM has developed energy-efficient products and advanced smart systems to help airports successfully meet these demands. Its mission is to provide reliable, high-quality airfield ground lighting and control systems, incorporating cutting-edge technology and supported by superior customer service, to help airports around the world operate safely and sustainably. OCEM has supplied AGL solutions and systems to more than 1,100 airports on six continents and has installed more than 200 airfield control monitoring systems worldwide.

OCEM was a pioneer of longer-lasting, energy-efficient LED technology, and continues to invest heavily in R&D to minimize the company's environmental impact as they meet growing demand. The company is anticipating customer needs before they become evident by thinking about airfield lights as more than just signals, and by diving advancements in systems communication and integration.

CUTTING-EDGE SOLUTIONS



As part of a multinational industrial technology group, OCEM is able to draw on a global network of technical and sales assistance representatives in diverse geographical regions. Headquartered in Italy, OCEM has production in Italy, the U.S., France and China, and additional sales and technical support in South Korea, India, the UK, Mexico and Brazil. Together with its associate companies Multi Electric (U.S.) and Augier (France), OCEM forms part of Arete & Cocchi Technology, a holding group focused on industrial technology businesses. It offers its partners the best of both worlds: an international company with a strong local presence, with a sales support and distribution network now active in 79 countries.

OCEM WORLDWIDE SUPPORT

OCEM produces a full range of visual aids and electronic systems for airfield lighting, control and monitoring. The company currently offers:

- A full range of in-pavement and elevated lights for approach, runway, taxiway and guidance signs, equipped with traditional or LED light sources
- A full range of in-pavement and elevated lights for heliports, equipped with traditional or LED light sources
- Ultra-thin LED guidance signs
- Single- and three-phase constant current regulators containing circuit selectors
- Built-in capabilities for circuit and single-light control and monitoring

COMPLETE PRODUCT LINES



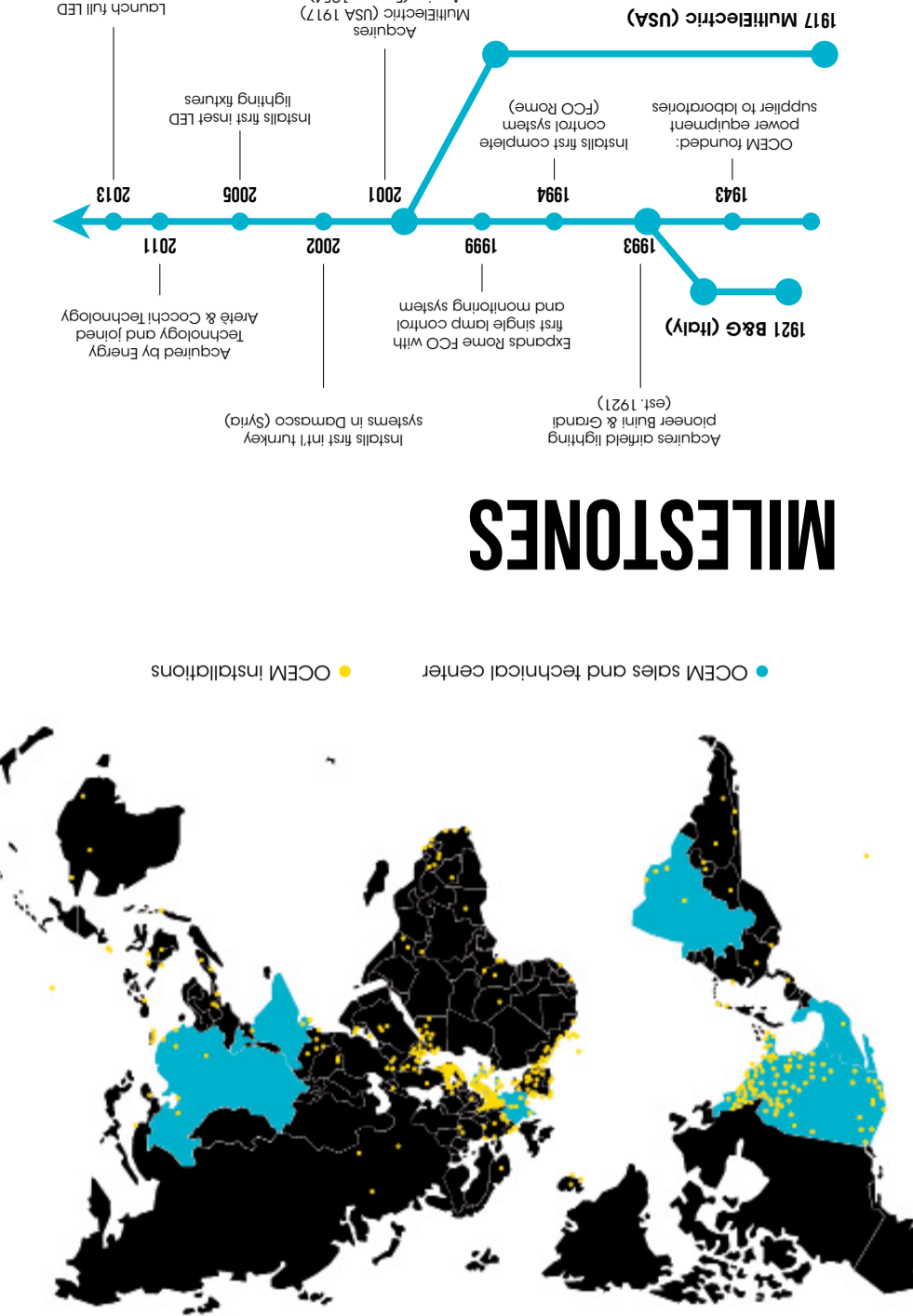
WORLDWIDE CERTIFICATIONS

Country	Certification
Algeria	CEC
Argentina	CEC
Australia	CEC
Austria	CEC
Bangladesh	CEC
Belgium	CEC
Bolivia	CEC
Brazil	CEC
Bulgaria	CEC
Cameroon	CEC
Canada	CEC
Chile	CEC
China	CEC
Colombia	CEC
Costa Rica	CEC
Croatia	CEC
Dominican Republic	CEC
Egypt	CEC
France	CEC
Germany	CEC
Ghana	CEC
Greece	CEC
Guatemala	CEC
Hong Kong	CEC
India	CEC
Indonesia	CEC
Iran	CEC
Iraq	CEC
Israel	CEC
Italy	CEC
Jordan	CEC
Korea	CEC
Lebanon	CEC
Malaysia	CEC
Mexico	CEC
Moldova	CEC
Morocco	CEC
Myanmar	CEC
Nepal	CEC
Nigeria	CEC
Norway	CEC
Pakistan	CEC
Palestine	CEC
Paraguay	CEC
Peru	CEC
Poland	CEC
Portugal	CEC
Romania	CEC
Russia	CEC
Saudi Arabia	CEC
Senegal	CEC
Singapore	CEC
Slovenia	CEC
South Africa	CEC
Spain	CEC
Syria	CEC
Taiwan	CEC
Tanzania	CEC
Thailand	CEC
Turkey	CEC
Ukraine	CEC
United Arab Emirates	CEC
United Kingdom	CEC
United States	CEC
Vietnam	CEC

OCEM products always comply with the ICAO and IEC guidelines and most of them have been approved with official certifications released by FAA (USA), PPT (AENA), STAC (France) and MAK (Russia).

- Algeria
- Argentina
- Australia
- Austria
- Bangladesh
- Belgium
- Bolivia
- Brazil
- Bulgaria
- Cameroon
- Canada
- Chile
- China
- Colombia
- Costa Rica
- Croatia
- Dominican Republic
- Egypt
- France
- Germany
- Ghana
- Greece
- Guatemala
- Hong Kong
- India
- Indonesia
- Iran
- Iraq
- Israel
- Italy
- Jordan
- Korea
- Lebanon
- Malaysia
- Mexico
- Moldova
- Morocco
- Myanmar
- Nepal
- Nigeria
- Norway
- Pakistan
- Palestine
- Paraguay
- Peru
- Poland
- Portugal
- Romania
- Russia
- Saudi Arabia
- Senegal
- Singapore
- Slovenia
- South Africa
- Spain
- Syria
- Taiwan
- Tanzania
- Thailand
- Turkey
- Ukraine
- United Arab Emirates
- United Kingdom
- United States
- Vietnam

OCEM IN THE WORLD



MILESTONES

- 1921 B&G (Italy) Acquires Arete & Cocchi technology and joined technology and joined
- 1933 Expands Rome FCO with first engine ramp control and monitoring system
- 1994 Acquires Arete & Cocchi technology and joined technology and joined
- 1999 Expands Rome FCO with first engine ramp control and monitoring system
- 2002 Installs first LED runway systems in Bamako (Guinea)
- 2005 Installs first LED lighting fixtures
- 2011 OCEM founded: supplier to laboratories (FCC Roma)
- 1943 OCEM founded: supplier to laboratories (FCC Roma)
- 1943 OCEM founded: supplier to laboratories (FCC Roma)
- 1954 Augier (France) and Multi Electric (USA) launch full LED

OCEM AN AGL INDUSTRY PIONEER

OCEM Airfield Technology is a global leader in the design, manufacture and installation of ground lighting and control systems for commercial and military airports. Active in the airfield industry for close to a century, OCEM is an experienced partner offering the benefits of a global network coupled with the expertise of a local supplier. At the beginning of the 21st Century, OCEM pioneered airfield product lines incorporating reliable, energy-efficient LED technology so the world's airports could operate safely and sustainably. Today, the company continues to help airports make the switch from halogen, and draws on its legacy of LED to drive other changes toward sustainability, safety and reduction in power consumption.

PART OF A GLOBAL NETWORK

Headquartered in Italy, OCEM has production activity in Italy (Bologna), the U.S. (Chicago), France (Nice) and China (Suzhou), and sales and technical support in South Korea, India, China, the UK, Italy, France, U.S., Mexico and Brazil. Together with Multi Electric (U.S.) and Augier (France), OCEM forms part of Arete & Cocchi Technology, a holding group focused on high-tech businesses leading industrial fields.

- Sales & Technical Support Offices:
- Italy +39 051 6656611
 - France +33 6 79374248
 - India +91 8826092265
 - USA +1 773 722 1900
 - Mexico +52 15514973628
 - China +86 0512 63006452



OCEM Airfield Technology, Division of Energy Technology Group Via della Solidarietà, 2/1 Località Crespelliano 40056 Bologna (BO), Italia +39 051 6656611

A Company of:



LIGHTING THE FUTURE



VALUES

OCEM AIRFIELD TECHNOLOGY IS:

- ▶ CUSTOMER-ORIENTED, PUTTING QUALITY AND RELIABILITY AT THE FOREFRONT OF ALL OUR PRODUCTS AND SERVICES
- ▶ TECHNICALLY ADVANCED, DEDICATED TO DEVELOPING NEW TECHNOLOGIES AND ADVANCING SMART SOLUTIONS FOR OUR CUSTOMERS
- ▶ EXPERIENCED, ADAPTING TO MARKET CHANGES AND EVOLVING STANDARDS OVER ALMOST A CENTURY IN THE AIRFIELD GROUND LIGHTING INDUSTRY
- ▶ INTERNATIONAL, WITH A GLOBAL NETWORK OF SALES AND TECHNICAL SUPPORT AND PROVEN SUCCESS IN DIVERSE GEOGRAPHIC AREAS
- ▶ PEOPLE-ORIENTED, COMMITTED TO RECRUITING AND DEVELOPING GREAT TALENT WHO NOT ONLY UNDERSTAND BUT ANTICIPATE OUR CUSTOMERS' NEEDS



	LERA	LIRA	LEFA	LIFA	PAPI
	Led elevated approach, threshold, threshold wing bar and runway end light	Led inset approach light	Led elevated approach flashing light (SFL)	Led inset approach flashing light (SFL)	Precision approach path indicator
Variants	Unidirectional	Unidirectional	Parallel power supply: 230 VAC ± 10%	Parallel power supply: 230 VAC ± 10%	2 lights: 2 x 200 watt 3 lights: 3 x 200 watt
Type	Elevated	Inset	Elevated	Inset	Elevated
Light	LED / Halogen	LED / Halogen	LED / Halogen	LED / Halogen	LED / Halogen
Colour	○ ● ●	○ ●	○	○	○ ●
FAA	L-862S AC150/5345-46		L-849A-E AC150/5345-51	FAA-E-2628	
ICAO	Annex 14 - Volume I	Annex 14 - Volume I	Annex 14 - Volume I	Annex 14 - Volume I	Annex 14 - Volume I

APPROACH



RUNWAY

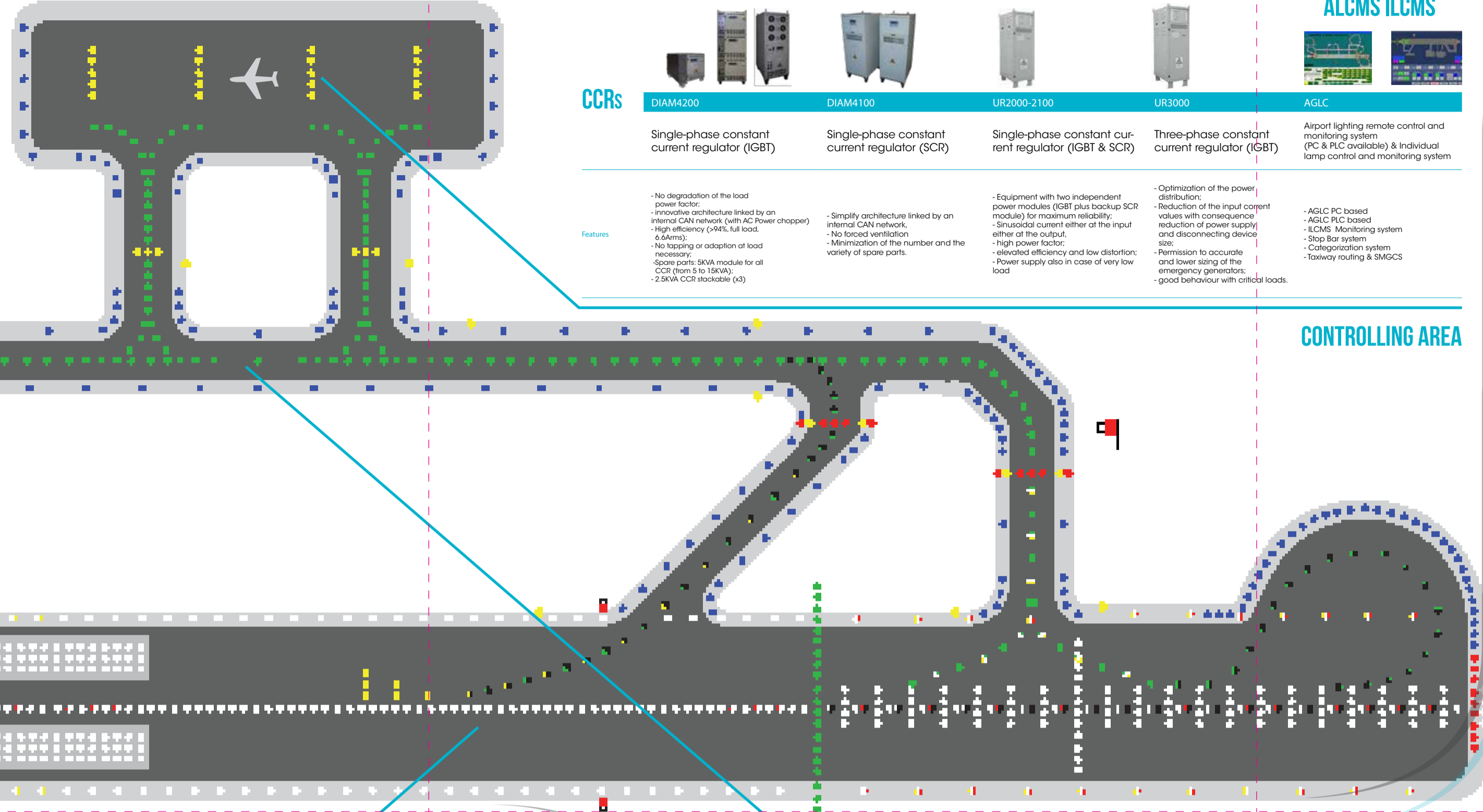


	LIRT	LIRH	LERE	LEFH	LIFH	LIRE	LIRN	LIRC	LIRL	LIRD	LIRZ
	Led inset threshold light	Led inset threshold/end light	Led elevated runway edge And threshold/end light	Led elevated threshold flashing light (SFL)	Led inset threshold flashing light (SFL)	Led inset runway edge light	Led inset runway end light	Led inset runway centreline and rapid exit taxiway indicator light (R.E.T.I.L.)	Led inset runway centreline and rapid exit taxiway indicator light (R.E.T.I.L.)	Led inset touchdown zone light	Led inset touchdown zone light
Variants	Unidirectional 12" dia	Uni-/Bidirectional 12" dia	Uni-/Bidirectional	Unidirectional 12" dia	Unidirectional 12" dia	Uni-/Bidirectional 12" dia	Unidirectional 12" dia	Uni-/Bidirectional 12" dia	Uni-/Bidirectional 12" dia	Unidirectional 8" dia	Unidirectional 12" dia
Type	Inset	Inset	Elevated	Elevated	Inset	Inset	Inset	Inset	Inset	Inset	Inset
Light	LED / Halogen	LED / Halogen	LED / Halogen	LED / Halogen	LED / Halogen	LED / Halogen	LED / Halogen	LED / Halogen	LED / Halogen	LED / Halogen	LED / Halogen
Colour	●	● ●	○ ● ● ●	○	○	○ ● ● ●	●	○ ● ● ●	○ ● ● ●	○	○
FAA	L-850E(L) AC150/5345-46 and EB No.67	L-850D(L) AC150/5345-46 and EB No.67	L-850E(L) AC150/5345-46 and EB No.67	L-849A-E AC150/5345-51	FAA-E2628	L-850C(L) AC150/5345-46 and EB No.67		L-850A-T(L) AC150/5345-46 and EB No.67	L-850A-T(L) AC150/5345-46 and EB No.67	L-850B(L) AC150/5345-46 and EB No.67	L-850B(L) AC150/5345-46 and EB No.67
ICAO	Annex 14 - Volume I	Annex 14 - Volume I	Annex 14 - Volume I	Annex 14 - Volume I	Annex 14 - Volume I	Annex 14 - Volume I	Annex 14 - Volume I	Annex 14 - Volume I	Annex 14 - Volume I	Annex 14 - Volume I	Annex 14 - Volume I
IEC	TS 61827	TS 61827	TS 61827	TS 61827	TS 61827	TS 61827	TS 61827	TS 61827	TS 61827	TS 61827	TS 61827

APRON FLOOD LIGHTING



POWER TRANSFORMERS



CCRs



	DIAM4200	DIAM4100	UR2000-2100	UR3000	AGLC
	Single-phase constant current regulator (IGBT)	Single-phase constant current regulator (SCR)	Single-phase constant current regulator (IGBT & SCR)	Three-phase constant current regulator (IGBT)	Airport lighting remote control and monitoring system (PC & PLC available) & Individual lamp control and monitoring system
Features	<ul style="list-style-type: none"> No degradation of the load power factor. Innovative architecture linked by an internal CAN network (with AC Power chopper) High efficiency (>94% full load, 6.4Amp) No tapping or adaption of load necessary. Spare parts: 8kVA module for all CCR (from 5 to 16kVA) 2.5kVA CCR stackable (x3) 	<ul style="list-style-type: none"> Simplify architecture linked by an internal CAN network. No forced ventilation Minimization of the number and the variety of spare parts. 	<ul style="list-style-type: none"> Equipment with two independent power modules (IGBT plus backup SCR module) for maximum reliability. Simultaneous current either at the input either at the output. High power factor. Elevated efficiency and low distortion. Power supply also in case of very low load 	<ul style="list-style-type: none"> Optimization of the power distribution. Reduction of the input current values with consequence reduction of power supply and disconnecting device size. Permission to accurate and lower sizing of the emergency generators. Good behaviour with critical loads. 	<ul style="list-style-type: none"> AGLC PC based AGLC PLC based ILCMS Monitoring system Stop Bar system Categorization system Taxiway routing & SMGCS

CONTROLLING AREA



SERIES ISOLATION TRANSFORMERS	Universal LED/Halogen series isolating transformers
SHALLOW BASES	Shallow Bases 8" and 12" dia. With several cable lead entry
ADAPTOR RING	For installing of 8" dia. inset lights into 12" dia. bases
BASE PLATE	For installation of elevated lights and guidance signs
COVER PLATE	Cover for 8" and 12" Shallow Bases for override
BREAKABLE COUPLING	Pre-determined breaking point for elevated lights
COMPACT LIGHTING ARRESTER	CLA series are surge and lightning arrestors

SPECIAL VARIANTS



PALS
Portable airfield lighting systems
The system is provided for continuous operation, fed through constant current regulators and series circuits, and could be remote controlled by means of a wireless computerized system.

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TAXIWAY



	LITE	LITA	LETE	LITC	LITS	LETG	LITG	LIMS	AIRPORT MV800
	Led inset taxiway edge light	Led inset taxiway apron	Led elevated taxiway edge light	Led inset taxiway centreline, stop bar and intermediate holding position light	Led inset stop bar light	Led elevated runway guard light	Led inset runway guard light	Led luminous guidance sign	Wind cone frangible and not-frangible
Variants	Omnidirectional 8" or 12" dia	Omnidirectional 8"	Unidirectional	Uni-/Bidirectional 8" or 12" dia	Unidirectional 12" dia		Unidirectional	Single Face	Airport MV 800 Heliport MV400 Airport/Heliport MV240 (FAA L-806 lightweight)
Type	Inset	Inset	Elevated	Inset	Inset	Elevated	Inset	Elevated	Elevated
Light	LED / Halogen	LED / Halogen	LED / Halogen	LED / Halogen	LED / Halogen	LED / Halogen	LED / Halogen	LED / Halogen	LED / Halogen
Colour	●	●	●	● ● ●	●	●	●	● ● ●	●
FAA	L-852T(L) AC150/5345-46 and EB No.67		L-861T(L) AC150/5345-46 and EB No.67	L-852A-B-C-D-J-K(L) AC150/5345-46 and EB No.67	L-852S(L) AC150/5345-46 and EB No.67		L-852G(L) AC150/5345-46 and EB No.67		AC150/5345-27
ICAO	Annex 14 - Volume I		Annex 14 - Volume I	Annex 14 - Volume I		Annex 14 - Volume I	Annex 14 - Volume I	Annex 14 - Volume I	Annex 14 - Volume I
IEC	TS 61827		TS 61827	TS 61827		TS 61827	TS 61827		