Vertically Integrated
LED Lighting Manufacturer

Entirely Based in the EU
Company Brand Portfolio

OCTA LIGHT

OCTA ELECTRONICS
Light Emitting Diodes
LED engines
CEM /Contracted Electronics Manufacturing/

OCTA LIGHT
LED luminaires
LED lighting design
LED lighting projects

OCTALED
Retail retrofit lamps – bulbs and tubes
CORE PRODUCT PORTFOLIO

LED Lighting Production Entirely Based in the EU

Light Emitting Diodes Production

LED Engines Production

LED Luminaires and Lighting Projects

LED Lamps Production (Bulbs, Tubes)
EXTENDED PRODUCT PORTFOLIO

Production Entirely Based in the EU

Contract Electronics Manufacturing /CEM/

OEM and ODM LED Lighting Products
Octa Light New Production Facility
Specially Designed to Optimize Vertically Integrated Manufacturing

Modern, state-of-the-art production site. Expanded in 2016. Main facility area 11 500 m², total site area 20 000 m².

Located 40 km. from the country capital Sofia, its airport and main transport routes to Europe and the Middle East.

Starting from the light emitting diodes to the ready product – LED luminaires or LED lamps – all under one roof.
First-Class Manufacturing Capabilities

- Opto and microelectronics clean rooms.
- Fully equipped electronics assembly lines.
- Completely robotized LED lamps (bubs and tubes) assembly lines.
- Plastic injection molding, PC and PMMA extrusion, LGP production
- Mechanical workshop
- Powder coating (epoxy and non-epoxy type) optimized for steel and aluminum coating
- In-house production of plastic and metal housings
- On site R&D team
- Laboratories for photometric tests, electrical and electromagnetic measurements, accelerated product tests.
Company Milestones

2010
Company founded by shareholders Monbat (51%) and Octagon Intl. (49%)

2011
Start of Light Emitting Diodes mass production

2013
LED luminaires portfolio expansion.
Start up of Contracted Electronics Manufacturing

2014
Start up of LED lamps business.

2015
Export markets expansion of lighting projects

2016
New, modern production site opened.

2017
New 190 lm/W COBs launched
Most Modern Microelectronics Production Equipment
Octa Light Bulgaria is the only LED packaging company with production entirely based in the EU

- **High Power LED Series**
  - Industry leading levels of efficiency – up to 180 lm/W
  - Direct AC 230V models available

- **Mid and Low-Power LED Series**
  - Industry leading levels of efficiency – up to 220 lm/W
  - Great variety of industry standard packages sizes

- **Chip On Board LED Series**
  - Industry leading levels of efficiency – up to 210 lm/W
  - Copper and Aluminum base options

- **RGB and Special LED Series**
  - RGB and RGBW
  - Highest possible density of color mix
  - Special application LEDs – UV, IR
LED Engines Range

Standard portfolio of high efficiency LED engines

- Wide range of nominal power, CCT and CRI combinations
- Excellent for great variety of LED lighting applications
- Easy to be adapted to different clients’ specifications
- Simple and quick installation
Contract Electronics Manufacturing

Advanced equipment providing SMD solutions for key industries

- Advanced Manufacturing Engineering
- Test and System Development
- New Product Introduction Services
- Low volume and high mix manufacturing
- High Volume Manufacturing
- Inter-sectorial production, Hybrid Micro packaging and SMD assembly technologies
- Providing CEM solutions with different areas of application: lighting, consumer electronics, telecommunications, automotive, medical equipment, etc.
LED Luminaires for Most Popular Lighting Applications

Standard portfolio of high efficiency LED luminaires

Our LED luminaires are specially designed to provide maximum efficiency.

Our typical ROI in lighting projects is between 1.5 and 2.5 years.

Luminaires design ensuring maximum life span and reliability.

Most LED luminaires are suitable for direct replacement of conventional lighting fixtures.

Providing optimal light distribution.

Uniformity of light.

Office, school, hospital

Architectural

Retail store

Sports halls, Stadiums

Industrial

Street and area

Petrol station

LIGHTING APPLICATIONS
Lighting Projects References

Commercial and retail stores LED lighting

- VIVACOM shops, Bulgaria
  - Estrella Series

- TELENOR shops Bulgaria, over 150 shops and data centers

- Minimise Energy UK, Retail stores with customized T5 LED tubes

- DOMO retail stores, Romania
  - Prolux Series

- TECHNOMARKET stores, Bulgaria
  - OLOT Series, SLR Series

- SOFIA CITY CENTER, Bulgaria
  - SLS Series
Lighting Projects References

Office and interior LED lighting

ST. GEORGE School, Bulgaria
Flat Panel Series, Olot Series

LANCASTER Paris, France
SLR Series

PIC offices, Kuwait
Flat panels and Estrella Series

Reifaizenbank, Bulgaria,
Over 40 offices, Flat panels and Estrella

SENSATA Technologies, Bulgaria
Olot Series

LONDON Art Gallery, UK
LED T8 customized solution
Lighting Projects References
Sports halls and stadium LED lighting

Garanti Koza Tennis Complex, Istanbul, Turkey – Sports LED lighting main arena, outdoor and indoor tennis courts

Bulstrad Arena, Bulgaria
TANGRA2 Series

Garanti Koza, Turkey
MEGA Series
Lighting Projects References

Industrial LED lighting

- **SOPHARMA pharmaceuticals, Bulgaria, Proffit Series**
- **IMI, electronics, Bulgaria Olot Series, Proffit Series**
- **KCM, metals production, Bulgaria Tangra Series**
- **VIMI Fastners, Italy Proffit Series**
- **AUTO Bavaria Service Center, Bulgaria; Proffit Series**
- **MONBAT, Bulgaria Tangra, Proffit Series**
Lighting Projects References

Industrial LED lighting

Biomet, Bulgaria - Industrial LED lighting for company central warehouse
TANGRA2 Series

Hamberger, Bulgaria, New plant in Sevlievo, TANGRA2 Series

Calrsberg Brewery Blagoevgrad, Proffit Series
Lighting Projects References

Exterior, street, petrol stations LED lighting

ARGUN Mosque, Russia
LED RGB Custom Modules, PR Series

TEZZE Municipality, Italy
Victory Series, Intellilamp

BOURGAS, Bulgaria

PLOVDIV, Bulgaria
LED Pavement Stone Series

PETROL AD, Bulgaria
Canopy, Victory Series

ROMPETROL, Bulgaria
Canopy, Victory Series
Most Recent Projects – Office Lighting

Millenium Business Center, Sofia, Bulgaria - Office LED lighting
Flat panels and OLOT Series
Most Recent Projects – Street Lighting

Boulevard Dondukov, Sofia, Bulgaria - Street LED lighting
EXTREME Series
Most Recent Projects – Street Lighting in Norway

Ski resort and street lighting, Eidsvoll, Norway
EXTREME Street Series
References

This Reference Letter is issued by KCMI AD to Octa Light Bulgaria AD for certifying that the company is a professional manufacturer of high-quality LED lighting fixtures.

Octa Light Bulgaria had manufactured and delivered the LED lighting fixtures for our main warehouse for food products in August 2013. The project has been executed properly and within agreed terms.

The LED fixtures manufactured by the company fully comply with the international lighting standards. The achieved economy of energy saving in the reference project is 40% in comparison to the previous conventional lighting sources.

KCMI AD has recommended Octa Light Bulgaria AD as a professional and reliable manufacturer of LED lighting systems.

Apl. eng. Szymon Przebindowski, CEO of KCMI AD
December 1st, 2015
OCTALED Brand Portfolio

Wide range of highly efficient LED bulbs and tubes

**Classical E27**
- Available in 40W, 60W and 75W equivalents
- Selected models A++

**Candle, Fridge**
- Available in 25W and 40W equivalents
- E14 socket
- Energy class A+

**GU10, MR16**
- Available in 35W and 50W equivalents
- Nominal beam angle 40°
- Energy class A+

**T5 and T8 Tubes**
- Available in 600, 1200 and 1500 mm
- Variety of nominal powers and CCT combinations
- Available series in A++ for all SKUs
Our LED Lamp Manufacturing is Completely ROBOTIZED

- Most modern completely robotized assembly lines for bulbs and tubes
- We can secure highest quality of assembly providing consistency and reliability
- We have increased our capacity to:
  - 350,000 bulbs per month / shift
  - 75,000 tubes per month / shift
Octa Light Key Advantages

**Reliable business partner**
Part of big industrial holding, the company is constantly increasing its turnover and investments.

**Vertical integration**
We control design and production from the light emitting diode, through the LED engine to the final fixture or lamp.

**Trustworthy quality**
according to the European standards and regulations at competitive prices.

**Technology equipment**
Advanced electronics assembly lines, robotized lamps assembly lines, automated lighting fixtures assembly.

**Flexibility**
in production and delivery terms, customized products solutions.
Quality Management

- ISO 9001, ISO 14001, OHSAS 18001 certified by INTERTEK.


- Product certificates from accredited laboratories in the EU.

- Fully equipped company laboratory for photometric tests, electrical and electromagnetic measurements, accelerated product tests.

- ERP system with trackable records of every single manufacturing operation for all products.

- Specially dedicated quality management and R&D teams.
LED’s DO IT!