

*enlucce*

Lighting STORES & RETAIL



lightenjin 



In the beginning, Lightenjin was exclusively dedicated to lighting projects, where retail played a relevant role.

Lightenjin is committed to our clients, whether you have a small shop or a retail chain, to contributing to the creation of more captivating and enveloping areas through its lighting. This way, the emotional link of clients, our clients, will be emphasised by positive experiences and their bond will increase towards this brand.

In addition to retail projects, Lightenjin played a part in the sector's evolution by developing new concepts, implementing new practices, and introducing new technologies.

The accumulated experience of lighting projects in the retail sector has led to the quick development of light fixtures and projectors. From the product's development to its industrialisation was a natural result of business growth.

This catalogue will lead with lighting in shopping areas based on acquired knowledge throughout many years of experience.

## **Light:** boosting sales

There are many factors to consider in an optimised lighting project, particularly high luminous fluxes associated with high efficiency and low glare. We should also consider, in addition to efficiency, intrinsic LED parameters, such as colour temperature and colour rendering index. Colour temperature translates how light emanating from a light source appears – the higher the colour temperature, the lighter the shade of the colour of light. Lower colour temperatures give rise to cosy and relaxing environments while higher colour temperatures give rise to stimulating environments that favour work environments.

The colour rendering index represents the degree of

fidelity that light sources possess when compared to natural light sources (sunlight). When sunlight emanates from a light source, it is classified with 100.

Lighting projects are no longer solely based on Lumens per Watt (lm/W) or average illumination levels per square meter (lm/m<sup>2</sup>). It is important to have several scenarios in addition to the general lightings of a shop.

There are resources for creating environments, such as shelf lighting or accent lighting drawing attention to products. Non-even lighting and variable levels of brightness will trigger buyers, fill the shop's projects with life, and attract buyers to intended areas.

## **Fashion**

One of the relevant factors in clothes retail is material quality and colour. The exact colour representation for a piece of clothing is no longer a problem. LED filters act in that sense leading to the maximum perception of real colour in an illuminated object.

## **Wine Cellars**

The purchase of wine is connected to the emotional status of each client.

Colour temperature within a wine cellar must emphasise the colour saturation of red wine or make white wine seem light and refreshing. These are the visual characteristics that clients believe to assign a higher quality to the product.

## **Circulation and Halls**

The great retail shops have gone from an even lighting concept around the entire shop to creating different lights for the fresh produce areas, fruit/vegetable areas, and clothing sections. In spite of this evolution, there are still circulation areas and halls that require general lighting. In addition to quality lighting, care in halls has evolved to light fixtures with dual asymmetry so that the light will be focused on the shelves.



Loja FuturSport - Braga, Portugal



Loja E.Leclerc - Bobadela, Portugal



Farmácia Ferreira da Silva, C.C. NorteShopping - Mexosinhos, Portugal



## **Appealing Products**

Fresh produce departments have more visitors in a supermarket and are essential in any shop. Visiting a supermarket rather than another is decided based on fresh produce. If we can get a customer to feel that the products look authentic and appealing, that their environment is hygienic, and if it looks thriving, then you have gained a customer.

Fresh produce in a supermarket has a short duration for the time it needs to be sold. Keeping products fresh and reducing the time between their placement on a shelf and customers putting them in their shopping carts should be the goal of any shop.

The most efficient way is to make these goods more appealing by emphasising their freshness and improving the way they look.

The colour rendering index is another determining factor for improving the perception of fresh produce together with colour temperature. The use of LED with a colour rendering index higher than 80 is recommended in these departments. A LED for fresh produce areas has filters with an optimised light spectrum for delaying the colour fading that is specific to each food group.

### Food filters



#### **Fish**

A cold light is recommended in areas with fish kept on ice. It highlights the fish's fresh and hygienic look and makes it seem shinier and more attractive.



#### **Meat**

A warm white light with a subtle red glow will bring out the best in your meat. A LED with a pink filter will improve the colour of meat and give it a more natural appearance. The LED used to illuminate meat will delay its colour fading.



#### **Delicatessen**

The suitable light for the delicatessen area is not as warm as that used on red meat. The colour temperature used for this department highlights the redness of sausages as well as the white veins and fat of ham and smoked bacon.



#### **Fruit and Vegetables**

Several types of fruit and vegetables appear so that their freshness is emphasised. This type of lighting highlights the green, red, and yellow.



#### **Bread and Cheese and Pastries**

A warm light will show the bread and cheese in authentic colour highlighting the warmth of freshly baked bread and soft cheese.



## Different Applications, Different Requirements

### Bakery

In addition to having a sales floor, the bakery also has a food production area. Food production follows the same guidelines as the food industry. The product's design should prevent some parts from eventually falling off or detaching themselves from the light fixtures. The hygiene guidelines stipulate that accumulated dust should be easily removed. The light fixtures should have a high protective index as to be apt for humid, hot, and cold areas. Materials used should be resistant to chemical agents used in cleaning. Lighting levels should be suitable for inspection at each manufacturing stage.



### Fish Market

The fish market in a shop has an area for washing and preparing fish. These places are potential splashing areas for which reason lighting must have a higher level of protection (IP65). These areas meet high hygienic standards for which reason lighting equipment must be resistant to cleaning agents. The level of lighting must be suitable for the saw machines and guillotine cutters used in handling certain types of fish.





### Shelf LED lighting system

As a marketing tool, shelf lighting is an excellent way to highlight a product in a line of shelves where all products are set in the same way and with the same lighting.

Shelf lighting requires extra care due to its closeness to products and customer accessibility – products must have a high IP and IK. The importance of LED having a low thermal load is highly important in this type of light fixture. Since LED lights do not have infra-red or ultraviolet radiation, even simplified products in terms of thermal dissipation are able to accommodate this type of lighting.



### Cold Areas

There are two different cold areas. The cold area with negative temperatures between  $-20^{\circ}\text{C}$  and  $-5^{\circ}\text{C}$  ( $-4^{\circ}\text{F}$  and  $23^{\circ}\text{F}$ ) where the freezers are kept and the cold area with positive temperatures between  $1^{\circ}\text{C}$  and  $8^{\circ}\text{C}$  ( $33.8^{\circ}\text{F}$  and  $46.4^{\circ}\text{F}$ ) intended for fresh produce (dairy, meat, and vegetables).

These light fixtures must have a high protective index (IP65) due to humidity and condensation from the cold. In relation to the protective index against impact (IK), it is important in both environments, in the warehouse due to handling goods and inside the shop due to light fixtures located inside freezers where customers are able to access them.

# A **simple solution** for complex tasks



## **MONITOR, ANALYSE, DECIDE**

The correct management of internal resources as well as monitoring performance requires us to resort to the latest technologies.

The relation between adequate lighting in a shop and a decrease in energy consumption is seen as a determinant factor for the productivity and competitiveness of corporations. However, managers do not usually hold all the necessary information for making proac-

tive and informed decisions on using the energy in their buildings.

Remote energy monitoring is an efficient and tested solution for reducing energy consumption and detecting anomalies, as well as implementing good using practices. Lightenjin has provided Global Energy Meter – **GEM** for monitoring energy.



## HOW IT WORKS

**GEM** is a solution for monitoring and managing electrical energy consumption in single-phase and three-phase circuits.

Monitoring information and reports are provided through a dedicated web page, which may be accessed using a 3G/4G and/or Ethernet connection.

Information collected by the GEM may be directly looked up without the need to subscribe to any

subscription or monthly services.

You can build reports using data export tools allowing for an analysis of the global consumption of your installation and providing the information needed for the optimisation and verification of energy efficacy measures and negotiation of energy supply contracts.

# Consumption Analysis

Department Store



example Department Store

ceiling: 8 metres high  
light fixtures height: 5m  
area: 8400 m<sup>2</sup>



## EXISTING INSTALLATION

## LED SOLUTION

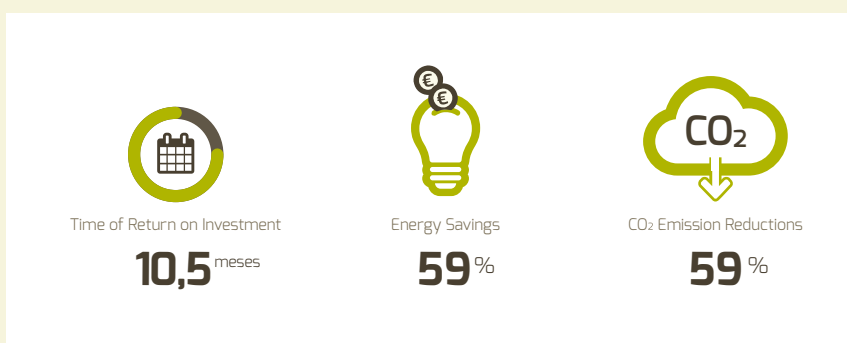
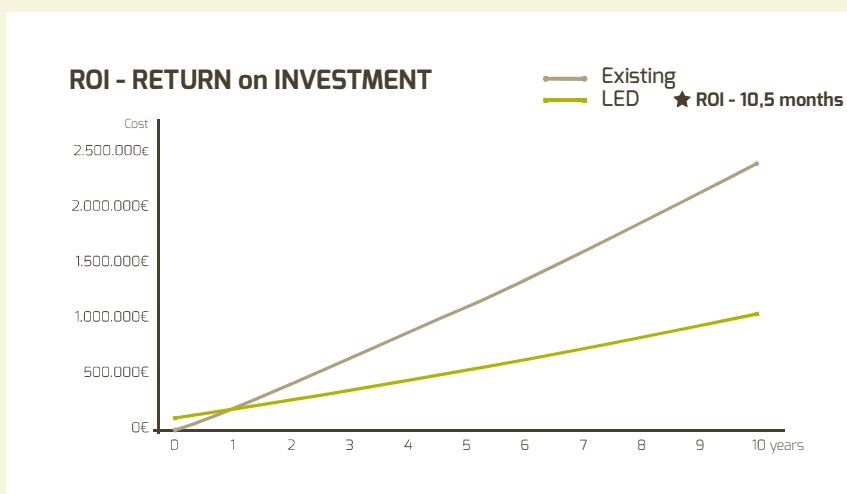
using existing points of light in  
the existing installation

	EXISTING INSTALLATION	LED SOLUTION
Light Fixtures	fluorescent 2x58W aluminum ref. $\eta=63\%$	Linne W 1475 HO 840
Number of Lights	1684	1684
Lamp Wattage	2x58 W	49 W
Absorbed Power of the Equipment	120 W	49 W
System Efficacy	89 lm/W	137 lm/W
Luminous Flux / Light Fixtures	10.400 lm	6.683 lm
Work Plan Luminance	1179 lux	1674 lux
Energy Consumption	1.176.914 kWh/year	480.573 kWh/year
Emissions	60,26 Ton CO <sub>2</sub> / kWh year	24,61 Ton CO <sub>2</sub> / kWh year

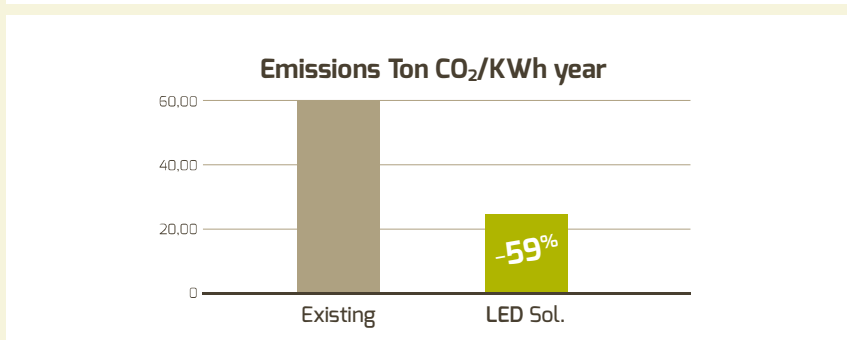
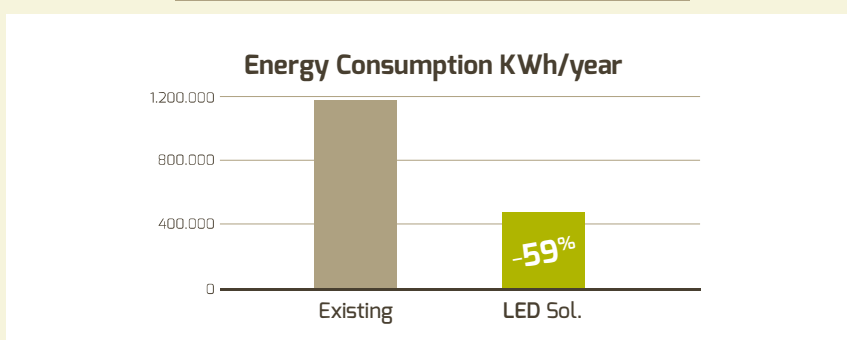
After monitoring and later analysis, a decision must inevitably be made.

It is important to carry out a comparative test between the existing lighting and new solutions in order to support the decision-making process.

As an example for a department store, an exercise was created showing an existing installation of fluorescent lights and their replacement with LED technology but keeping the electrified rails installed and existing points of light.



### ANNUAL SAVINGS





Sonae, Escritórios BIT – Business Information Technology, Porto, Portugal

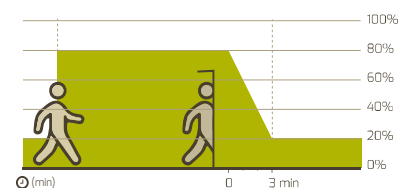
## ☰ LIGHT CONTROL SYSTEMS

Lightenjin lights with LED technology generate energy saving, since they comply with the requirements for high lighting efficacy with low energy consumption.

Our engineering department provides a set of customised solutions for the functionalities sought by our clients for their installations.

Light fixtures together with additional mechanisms allow for more dynamic usage and substantially decrease consumption. Light control systems are electronic devices that enable us to add one or more tasks to a light fixture or set of light fixtures.

All light control systems are parameterised and interconnected by installing *software*.

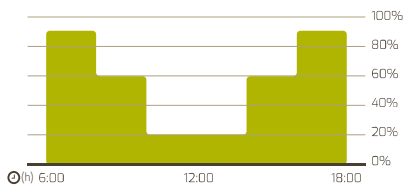


### Corridor FUNCTION

The system parameters are set to a constant level of lighting. Intensity is activated through the presence of people. In the absence of people passing by, lights shall be dimmed to previously set values. As you can see from its name, this is an excellent solution for circulation areas and halls in the warehouse.

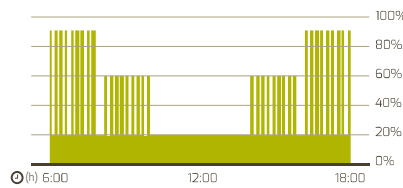


Average savings of **50%**



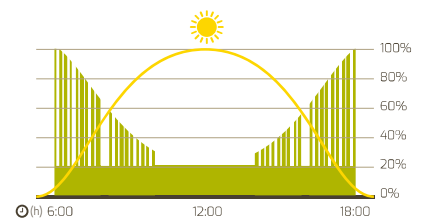
### Timer

Lights are adjusted to a previously set time. In addition to the ON/OFF option, the parameters of luminous intensity may also be set using a timer. This solution is suitable for works carried out away from the public areas that need to follow a schedule.



### Motion Sensor

The motion sensor activates lights when people are in the complex. Suitable solution for changing rooms and lavatories.



### Daylight

Illumination based on the natural light + people presence equation associated to the ON/OFF option adjusted using a timer. Suitable solution for the shopping area.



Lightenjin is a partner of Philips Signify. There are light fixtures certified by YellowDot within the range of Lightenjin products.

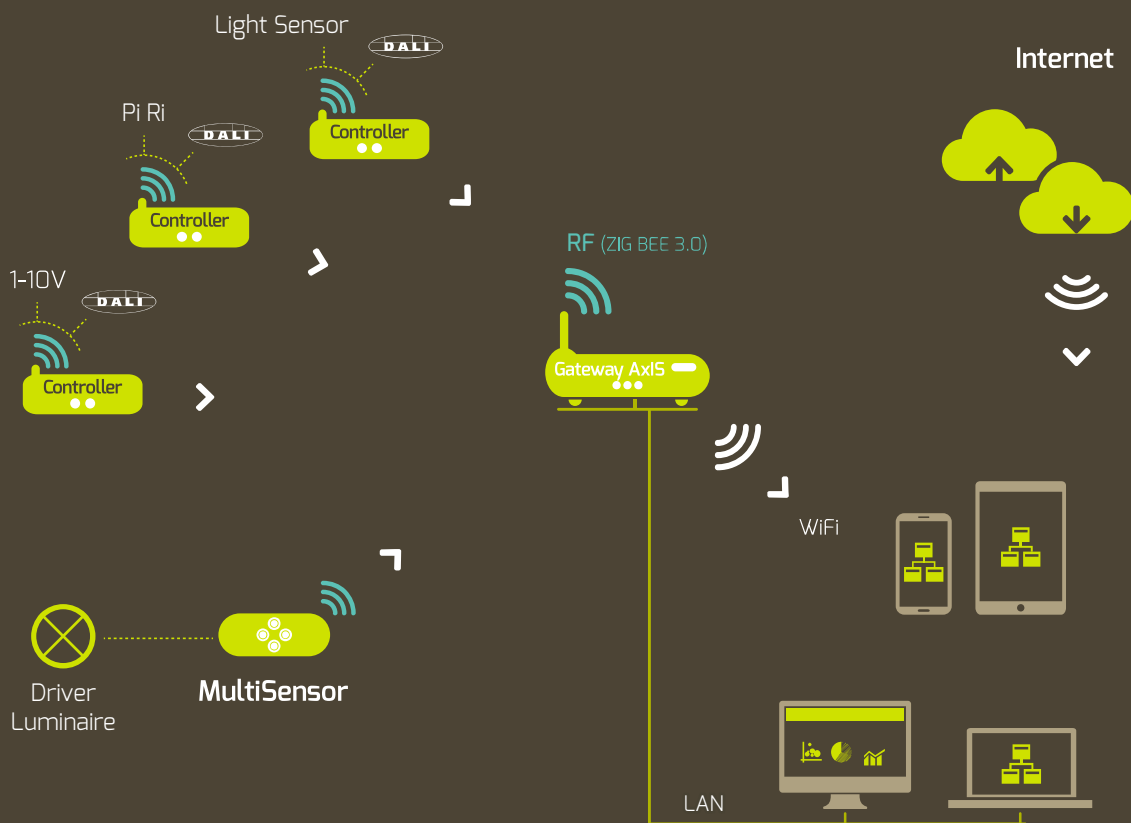
The Philips Signify YellowDot programme uses the 'Visible Light Communication' technology for enabling indoor geolocation by means of a unique identity code in each point of light.

Light fixtures with this certification will communicate with customer Smartphone cameras in the shop. Once the shop's app has been downloaded to a mobile phone, this technology will enable us to locate the customer in the shopping area, which will create an optimised shopping route based on the products on their shopping list with a 30 cm precision, among other features.

The data flow is one-way and no personal data is collected by the lighting system.

This indoor positioning system will turn the lighting network into a marketing tool based on location:

- Highly accurate location data;
- Respect for privacy (location is anonymous);
- An optimised shopping route is created;
- Special offer reminders and notifications based on customer location;
- Storage of analytical data (pace chart; length of stay; density of customers; etc.)



## CONTROL SYSTEMS DALI / AxIS

This Lighting Management Software enables:

- History** - Look up the data history;
- Data** - Data is exported into JASON and CSV formats;
- Profiles** - Schedule and parameter single profiles in every light fixture;
- User profiles** - Configure and manage user profiles with different accessibility levels;
- Luminous flux** - Set a luminous flux for every light fixture
- Blueprint** - Present and identify the light fixtures in a plant;
- Detecting abnormalities** - Detect abnormalities in accordance with the standard configurations of each light fixture;
- Telemetry** - This enables us to apply telemetry to every light fixture

### AxIS - Simple and intuitive management

The AXIS software enables us to control and monitor every single point of light adapting lighting to the need of users and places. The lighting system is optimised through the monitoring and permanent diagnosis of the entire network.

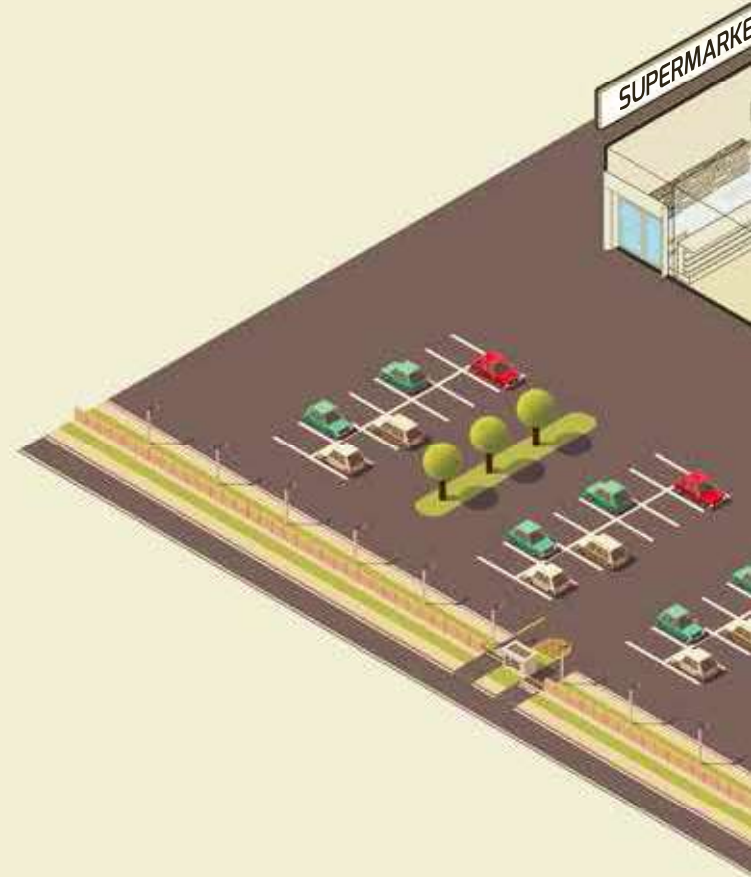
This level of flexibility and control also allows for better lighting management ensuring efficiency and safety conditions in buildings.

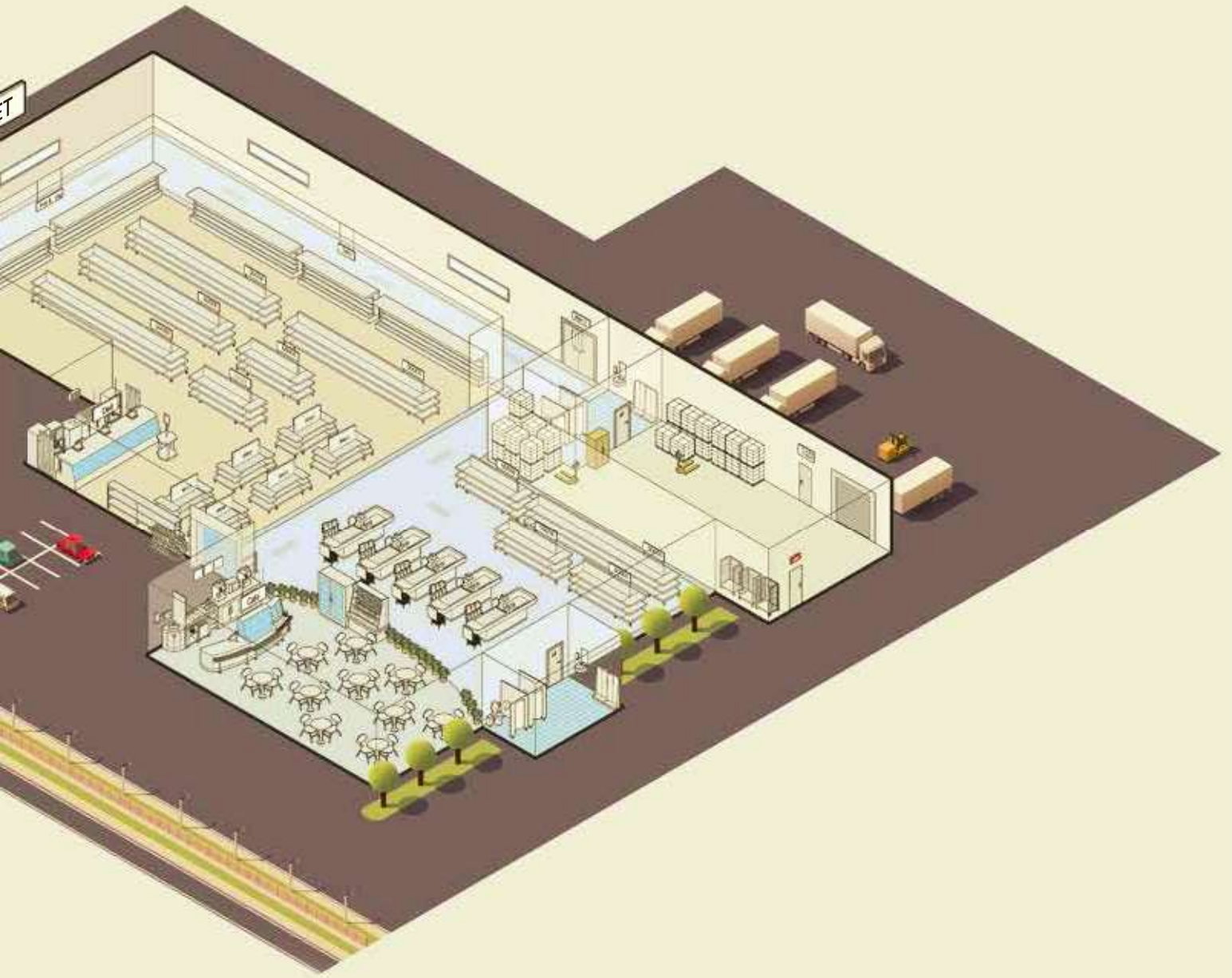
# Areas of intervention

We provide solutions for the different areas in your shopping space.

## lighting

- Accent Lighting
- General Lighting (halls and checkout lines)
- Shelf lighting
- Lighting for Cold Areas
- Cafeteria
- Entrance
- Lavatories
- Circulation Areas and Stairs
- Cold Storage
- General Warehouse
- Social areas – Canteen
- Shower Facilities
- Meeting Room
- Office
- Loading and Unloading Docks
- Footpaths
- Outdoor Car Park
- Covered Car Park







Loja Clarel \_ Cedófeita, Porto, Portugal



Loja Go Natural \_ Av. 5 de Outubro, Lisboa, Portugal

## Accent Lighting



### UNNO



Round polycarbonate projector applied to a three-phase rail. A versatile lighting solution with a variety of colour temperatures [3000-5000] K and a high colour rendering index (>80) making it possible to use colour filters. This solution provides a wide range of fluxes [2686-5407] lm and a maximum high efficiency of 122 lm/W.



### DUO



Round projector applied to a three-phase rail with integrated driver. A versatile lighting solution with a variety of colour temperatures [3000-5000] K and a high colour rendering index (>80) making it possible to use colour filters. This presents a range of fluxes that may vary between 2293-2891 lm associated with a maximum efficiency of 108 lm/W.



### CODEX P



Three-phase projector with an elegant and differentiating design. A versatile lighting solution with a variety of colour temperatures [3000-5000] K and a high colour rendering index (>80). Available in a wide range of fluxes (2550-3974 lm) associated with a maximum high efficiency of 83 lm/W.



Loja Continente \_ C. C. Minho Center, Braga, Portugal



### SHEER R



The Sheer R range (round, recessed mounting) stands out for its light orientation capacity in either one or two axes. A versatile lighting solution with a variety of colour temperatures (3000-4000 K) and a high colour rendering index (>80). Available in a wide range of fluxes (1232-4756 lm) associated with a maximum high efficiency of 118 lm/W.



### SHEER Q



The Sheer Q (square, recessed mounting) enables light orientation in one or two axes. A versatile lighting solution in terms of variety of colour temperatures (3000-4000K) and a high colour rendering index (>80). It provides a wide range of fluxes (1981-4646 lm) associated with a maximum high efficiency of 131 lm/W.



### ELEMENTARE R



The Elementare R family (round form) is available in different sizes (90 and 125 mm). A versatile lighting solution in terms of variety of colour temperatures (3000-4000K) and a high colour rendering index (>80). This shows a luminous flux that varies between 1323-4415 lm associated with a maximum efficiency of 136 lm/W.



## General Lighting



**ECO LINNE W**



Steel plate light fixtures used in large continuous light lines. A versatile lighting solution in terms of variety of colour temperatures (3000-4000 K) and a high colour rendering index (>80). This shows a luminous flux that varies between 7983-22465 lm associated with a maximum efficiency of 154 lm/W.



**ECO LINNE V**



Economic steel plate light fixtures designed for suspension or surface mounting. A versatile lighting solution in terms of variety of colour temperatures (3000-5000 K) and a high colour rendering index (>80). This shows a luminous flux that varies between 4000-9441 lm associated with a maximum efficiency of 152 lm/W.



Loja Continente de Telheiras \_ Lisboa, Portugal



## LINNE W



Light fixtures in aluminium that will adapt to the electrified rails. A versatile lighting solution in terms of variety of colour temperatures (3000-5000 K) and a high colour rendering index (>80). This shows a luminous flux that varies between 6163-28081 lm associated with a maximum efficiency of 155 lm/W.



## SLID



Light fixtures with a versatile positioning design due to three-phase electrification rails. A versatile lighting solution in terms of variety of colour temperatures (3000-5000K) and a high colour rendering index (>80). This shows a luminous flux that varies between 5708-9023 lm associated with a maximum efficiency of 168 lm/W.



Loja Continente \_ Portugal

## Shelf Lighting



### VLED S



Appropriate economic and compact equipment for short-distance lighting. A versatile lighting solution in terms of variety of colour temperatures (3000-5000 K) and a high colour rendering index (>80). IP40 equipment with a luminous flux that may vary between 675-9894 lm and a maximum efficiency of 161 lm/W.



Loja E.Leclerc - Bobadela, Portugal

## Lighting for Cold Areas



### DRILED (positive cold)



Ideal light fixtures for small areas like coves, handrail, and shelves. This profile enables for diffusers with 60° and 120° angles to be integrated as well as dual asymmetry. Light fixtures that may be used up to six metres high with a luminous flux that may vary between 738-11307 lm obtaining a maximum efficiency of 161 lm/W.



### FRIGUS (negative cold)



Appropriate surface mounted light fixtures to be applied onto refrigerated chambers with IP54. Designed for a simple or double beam. A versatile lighting solution in terms of variety of colour temperatures (3000-5000 K) and a high colour rendering index (>80). This presents a luminous flux that varies between 4642-9023 lm associated with a maximum efficiency of 168 lm/W.



Loja Go Natural — Av. 5 de Outubro, Lisboa, Portugal

## Cafeteria



### LIGNA



Suspended minimalist light fixtures that adapt easily to the surrounding environment. Developed for accommodating lamps with E27 support with a recommended full power of 60W.



### SHEER Q 170



The Sheer Q 170 with recessed mounting enables light orientation in one or two axes. A versatile lighting solution in terms of variety of colour temperatures (3000-4000K) and a high colour rendering index (>80). It provides a versatile solution with a wide range of fluxes (2591-4646 lm) associated with a maximum high efficiency of 131 lm/W.



### CODEX E



Light fixtures with recessed mounting with an elegant and differentiating design. A versatile lighting solution with a variety of colour temperatures (3000-5000 K) and a high colour rendering index (>80). Available in a wide range of fluxes (2550-3974 lm) associated with a maximum high efficiency of 83 lm/W.



Loja Bom Dia — Braga, Portugal

## Entrance



### QUADRATUM S



The Quadratum S enables us to associate several devices with different sizes. A versatile lighting solution in terms of variety of colour temperatures (3000-5000 K) and a high colour rendering index (>80). With a wide range of fluxes (6709-21116 lm) associated with a maximum high efficiency of 128 lm/W.



### LINNE S



Linear light fixtures enabling us to create different configurations, which are available in different lengths. A versatile lighting solution in terms of variety of colour temperatures (3000-5000 K) and a high colour rendering index (>80). With a wide range of fluxes (1677-13198 lm) associated with a maximum high efficiency of 128 lm/W.



### ORBIS R 120



A round downlight with recessed mounting with a diameter of 120 mm, elegant light fixtures that provide the surrounding areas with simplicity without jeopardising the associated efficiency and power. Its frame with recessed mounting ensures lower glare. Equipment with IP44, a luminous flux that may vary between 2417-3802 lm, and a maximum efficiency of 110 lm/W.



Sonae MC — Carnaxide, Portugal



Lightenjin, Parque Industrial do Casarão — Águeda, Portugal

## Lavatories



**ORBIS R 140**



A round downlight with recessed mounting that provides the surrounding areas with simplicity without jeopardising the associated efficiency and power. Its frame with recessed mounting ensures lower glare. Equipment with **IP44**, a luminous flux that may vary between **820-1006 lm**, and a maximum efficiency of **87 lm/W**.



**SHEER Q 80 GU10 O**



A small downlight suitable for small spaces with light orientation capacity in two axes. Light fixtures with **IP20** designed for accommodating **GU10** lamps with a recommended full power of **10W**.



**DRILED IP44**



Ideal light fixtures for small areas like coves, handrail, and shelves. This profile enables for diffusers with **120°** angles to be integrated. Light fixtures that may be used up to six metres high with a luminous flux that may vary between **738-11307 lm** obtaining a maximum efficiency of **161 lm/W**.



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## Circulation Areas & Stairs



### ELEMENTARE R 90



A downlight with recessed mounting that may be provided with a transparent or frosted diffuser, or without a diffuser. Available in a wide range of fluxes (1510-2671 lm) associated with a maximum high efficiency of 136 lm/W.



### CODEX S



Surface mounted light fixtures with an elegant and differentiating design. Available in a wide range of fluxes (2550-3974 lm) associated with a maximum high efficiency of 83 lm/W.



### FLAT



A small uplight designed by architect Adalberto Dias. Available in a wide range of fluxes (1350-1710 lm) associated with a maximum high efficiency of 121 lm/W.



## Cold Storage



### STAGNUM PRO LED



Watertight light fixtures suitable for a very humid environment. A versatile lighting solution in terms of variety of colour temperatures (3000-5000 K) and a high colour rendering index (>80). With a wide range of fluxes (4992-8253 lm) associated with a maximum high efficiency of 136 lm/W.



## General Warehouse



**GYRUS**



Highly protected light fixtures (IP 65) intended for warehouses. With a wide range of fluxes (7329-37665 lm) associated with a maximum high efficiency of 148 lm/W.



**STAGNUM LED II**



Watertight light fixtures (IP66). Ensuring a variety of fluxes (3527-13874 lm) associated with a maximum high efficiency of 143 lm/W.



Sonae, Escritórios BIT – Business Information Technology – Porto, Portugal

## Social Areas – Canteen



**OPUS S 0**



Surface mounted light fixtures with IP40 suitable for dining areas serving as a neutral element in space. Available in a wide range of fluxes (870-8438 lm) associated with a maximum high efficiency of 108 lm/W.



**ALTUS Q 130**

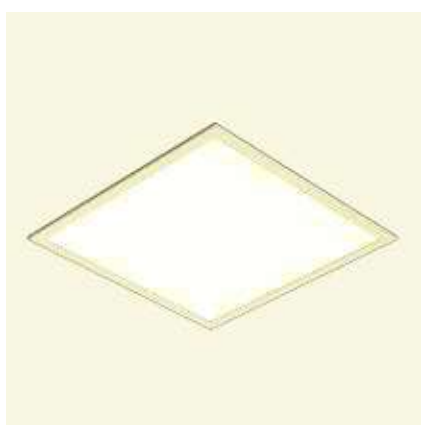


Surface mounted or suspended light fixtures. Enabling us to create a different environment within the general environment. Available in a wide range of fluxes (1613-2519 lm) associated with a maximum high efficiency of 144 lm/W.



loja Continente, C. C. Minho Center \_ Braga, Portugal

## Shower Facilities



### ASEPTIC



Light fixtures with suitable characteristics for environments that are prone to the proliferation of micro-organisms, such as restaurants, shower facilities, clean rooms, and hospitals. Available at different colour temperatures and with colour rendering levels of >80. It has a wide range of fluxes (3540-6105 lm) and maximum efficiency of 106 lm/W.



### STAGNUM PRO LED



Watertight light fixtures suitable for a very humid environment (IP66). A versatile lighting solution in terms of variety of colour temperatures (3000-5000 K) and a high colour rendering index (>80). With a wide range of fluxes (4992-8253 lm) associated with a maximum high efficiency of 136 lm/W.



### TULED 50

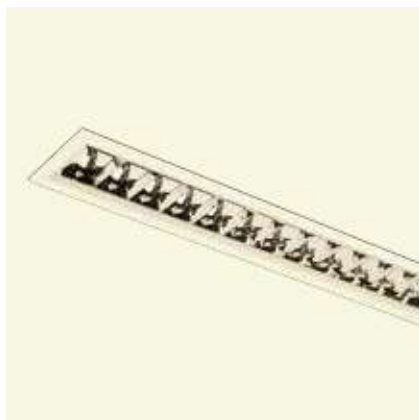


Watertight light fixtures intended for a very humid environment (IP67). A versatile lighting solution in terms of variety of colour temperatures (3000-5000 K) and a high colour rendering index (>80). With a wide range of fluxes (1845-7642 lm) associated with a maximum high efficiency of 161 lm/W.



Sonae, Escritórios BIT – Business Information Technology \_ Porto, Portugal

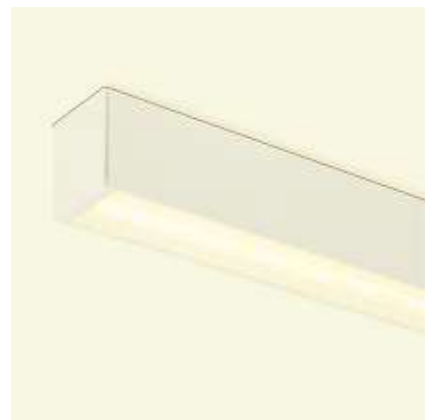
## Meeting Room



### LINNE E PW45



Light fixtures with recessed mounting with a PW45 low glare diffuser. A flux interval of 1419-11167 lm associated with a maximum high efficiency of 108lm/W.



### LINNE



A linear equipment that is simple to assemble and modular enabling us to create different configurations and lengths. A flux interval of 1677-14534 lm associated with a maximum high efficiency of 128 lm/W.



Sonae MC - Carnaxide, Portugal

## Offices



### OPUS E ECO (UGR <16)



Especially designed for offices with an anti-glare micro prismatic diffuser (UGR <16) indicated for working with screens in accordance with standard 12464-1. Available in a wide range of fluxes (3836-11081 lm) associated with a maximum high efficiency of 137 lm/W.



### OPUS E PW45



Especially designed for offices with a PW45 diffuser indicated for working with screens in accordance with standard 12464-1. Available in a wide range of fluxes (3836-11081 lm) associated with a maximum high efficiency of 137 lm/W.



## Loading and Unloading Docks



### STAGNUM LED II



Watertight light fixtures (IP66). Ensuring a variety of fluxes (3527-13874 lm) associated with a maximum high efficiency of 143 lm/W.



### CITHARA XL



Highly protected light fixtures (IP65) indicated for loading and unloading docks. The swinging arm allows for the light beam to be controlled. Ensuring a variety of fluxes (6845-14590 lm) associated with a maximum high efficiency of 1434 lm/W.



## Footpaths



**REDUCTA 30**



REDUCTA 30 with IP67 and IK06 is a versatile point of light, which may be incorporated in a recessed manner into pavements, ceilings, and walls either inside or outside. This product is ideal for small beams of light, signs, and sweeping walls.



**PALUS**



Equipment available in two sizes, which was designed for the purpose of exterior illumination, such as sidewalks and parks. Its design, which projects light closer to the ground, allows for good lighting at a low cost together with a flux interval of [427-726] lm.



**PHARUS**



Lighting fixtures with a 360° amplitude light and high visual comfort due to the incorporation of an anti-glare gutter, which directs the light emitted to the ground. This product has a wood lacquered aluminium stem, contributing for better suitability in the space where it is incorporated.



## Outdoor Car Park



### NOXIS S



Suitable light fixtures for lightweight and heavyweight car parks with the possibility to attach to a pole or a column and a protective index of IP67. A luminous interval of 7329-9727 lm associated with a maximum high efficiency of 138 lm/W.



### PRIMAVIR EVO



Suitable light fixtures for lightweight and heavyweight car parks with the possibility to attach to a pole or a column and a protective index of IP67. A luminous interval of 2282-15625 lm associated with a maximum high efficiency of 144 lm/W.



### VIA



Suitable light fixtures for lightweight and heavyweight car parks with the possibility to attach to a pole or a column and a protective index of IP66. A luminous interval of 7329-9727 lm associated with a maximum high efficiency of 138 lm/W.



Loja Continente — Évora, Portugal

## Covered Car Park



### STAGNUM PRO LED



Watertight light fixtures suitable for a very humid environment (IP66). A versatile lighting solution in terms of variety of colour temperatures (3000-5000 K) and a high colour rendering index (>80). With a wide range of fluxes (4992-8253 lm) associated with a maximum high efficiency of 136 lm/W.



### TULED 50



Watertight light fixtures intended for a very humid environment (IP67). A versatile lighting solution in terms of variety of colour temperatures (3000-5000 K) and a high colour rendering index (>80). With a wide range of fluxes (1845-7642 lm) associated with a maximum high efficiency of 161 lm/W.



## FuturSport Shop \_ Concept and Design



Concept\_

**“An active journey throughout the different moments of an urban and sports life”**

Interior Design and Lighting of Braga's FuturSport shop following a clear strategy of refreshing the brand and investing in a differentiated image.

An assertion of coherence among the Group's shops, an affirmation of the Brand in the geographic locations where it now clearly stands out due to the bold decorations and quality of its interior design.

Maximum rating for the products therein reaching the standards and level of the represented international fashion and sports brands.

### Turnkey Project

Architecture, Interior Design, and Implementation  
INCO – Interior Contract Lda.

Design Partnership\_ Cervus Mannequins

Light Design Partnership\_ Think Light



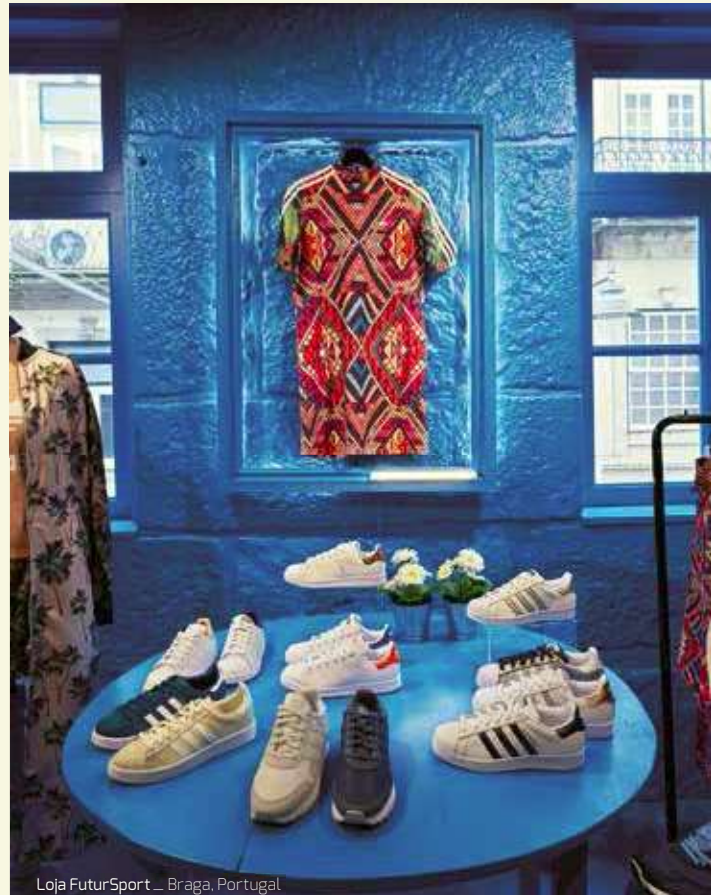
# Lightenjin Projects



Loja Go Natural, Av. 5 de Outubro - Lisboa, Portugal



Loja Note - Lumiar, Portugal



Loja FuturSport - Braga, Portugal



Loja ZU, C. C. Minho Center - Braga, Portugal



Loja Bom Dia, Oficinas de São José - Braga, Portugal



Loja Continente, C. C. Minho Center, Braga, Portugal



Loja Mini-Preço, Rua de São Paulo, Lisboa, Portugal



Farmácia Ferreira da Silva, C. C. NorteShopping, Matosinhos, Portugal



Loja Clarel, Cedofeita, Porto, Portugal



Loja E.Leclerc, Bobadela, Portugal

# Products Index

## 18 Accent Lighting



UNNO



DUO



CODEX



SHEER R



SHEER Q

## 20 General Lighting



ECO LINNE W



ECO LINNE V



LINNE W



SLID

## 22 Shelf lighting & Cold Areas



VLED S (prateleiras)



DRILED (frio positivo)



FRIGUS (frio negativo)

## 24 Cafeteria



LIGNA



SHEER Q 170



CODEX E

## 25 Entrance



QUADRATUM



LINNE S



ORBIS R 120

## 26 Lavatories



ORBIS R 140



SHEER Q 80 GU10 O



DRILED

## 27 Circulation Areas and Stairs



ELEMENTARE R 90



CODEX 5



FLAT

## 28 Cold Storage & General Warehouse



STAGNUM PRO LED



GYRUS



STAGNUM LED II

## 30 Social areas – Canteen



OPUS 5 O



ALTUS Q 130

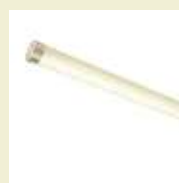
## 31 Shower Facilities



ASEPTIC



STAGNUM PRO LED



TULED 50

# Products Index

## 32 Meeting Room & Office



LINNE E PW45



LINNE



OPUS E ECO (UGR &lt;16)



OPUS E PW45

## 34 Loading and Unloading Docks



STAGNUM LED II



CITHARA L

## 35 Footpaths



REDUCTA 30



PALUS



PHARUS

## 36 Outdoor Car Park



NOXIS 5



PRIMAVIR EVO



VIA

## 37 Covered Car Park



STAGNUM PRO LED



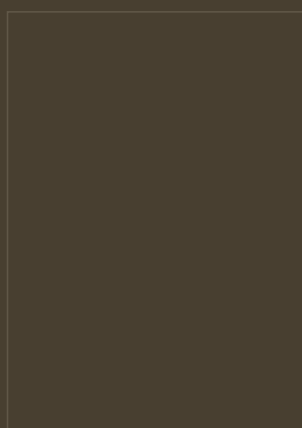
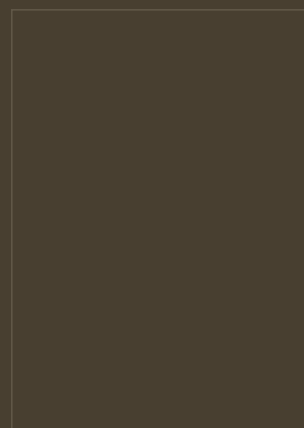
TULED 50

# Lightenjin

Lightenjin manufactures professional lighting solutions to be applied in interiors and exteriors.

Lightenjin products combine technology, ergonomic design, lighting control, and energy efficiency always keeping in mind user well-being as the main goal.

If you do not find the technical solution you are looking for, please do not hesitate to contact our engineering department.



We are constantly updating our documentation. Whatever your business field, please read the related brochure, where you will find more detailed and specific information.

Documentation available on [www.lightenjin.pt/en/downloads](http://www.lightenjin.pt/en/downloads)

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[www.lightenjin.pt](http://www.lightenjin.pt)

## Lightenjin II - Indústria de Iluminação, Lda.

Parque Empresarial do Casarão,  
Avenida das 2 Rodas, Lote 36A  
3750-041 Aguada de Cima . Portugal

gps: 40.550187, -8.396383

tel: +351.234 080 117 fax:+351.234 249 933

email: [geral@lightenjin.pt](mailto:geral@lightenjin.pt)



lightenjin 

CENTRO 

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 UNÃO EUROPEIA  
Fundo Europeu  
de Desenvolvimento Regional

