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March, 2018

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EDITORIAL

Dear Friends,

2017 is shaping to be a great year for all of us. Most of our partners around the globe have recorded record revenues during the first two quarters of the financial year. We at ECOLIGHT are proud of your accomplishments. And we like to think that your decision to partner up with us had a little something to do with your success.

In this editorial, I would like to do two things. First, I want to talk about some of the most impressive projects that our partners have recently conducted in different parts of the world. Second, I want to bring your attention to several of our new products that can bring real value for your business: RADIUS SOLAR OFF GRID STREET LIGHT SYSTEMS, RAMUNE LED RM and SAULA LED LN INOX.

PROJECTS TO BE PROUD OF

Be it Germany or Jordan, Slovenia or United Kingdom, the story is pretty much the same everywhere. Our partners – project companies and electric supplies wholesalers – use ECOLIGHT industrial grade LED luminaries to gain a unique competitive edge in their local markets.

The formula of this advantage is simple. In terms of efficiency and durability, ECOLIGHT can compete with any manufacturer, because our LED products are powered by latest Philips technologies, and are fully certified by ENEC and IECCE/CB. In terms of affordability, however, our products are way more accessible than the most famous global brands, because we never overspend on inessentials like product design which is never the priority of cost-savvy industrial clients.

This philosophy is bearing fruit throughout the world map. Some of our recent bigger projects in the first two quarters of 2017 include LED lighting solutions for Hussam plastic factory (Jordan), Horsch Maschinen factory (Germany), Peikko concrete connections factory (Lithuania), Mantinga (Lithuania), A.Sabonis sport centre (Lithuania), Hampidjan

Baltic (Lithuania), Liningas (Lithuania), Vilniaus Tranzitas (Lithuania), Western Fabrication (Lithuania), CPI printing factory (Czech Republic), Damme shopping center (Latvia), Ryanair airplane maintenance center (Lithuania), Black Red White SA facilities (Poland), Al Jabali Trading Group facilities (Jordan), and many others.

NEW PRODUCTS FOR NEW NICHES

The projects mentioned above were integrated with our bestselling LED luminaries: SAULA LED LN, ELUMA LED ZL, LUMINA LED LN & LD. We predict that these high-performance and cost-efficient luminaries will grow in popularity for years to come.

But to establish our presence in different market segments, we also constantly seek to diversify our product portfolio. That is why we keep ourselves busy innovating. In 2018, we anticipate a breakthrough in demand for these new exciting products:

RADIUS SOLAR OFF GRID STREET LIGHT SYSTEM: an innovative and ultra-efficient solar-powered outdoor lighting system for both commercial and household use. The system is designed specifically for outdoor off-grid applications where electricity from the grid is not available or is very unreliable. Jump to page 6 for an overview of this game-changing solar product.

RAMUNE LED RM: a new LED high bay luminaire for simple, standard applications in industry. Its efficiency and long service make it a genuine alternative and a 1:1 replacement for conventional systems equipped with HIE/HIT or HSE/HST lamps.

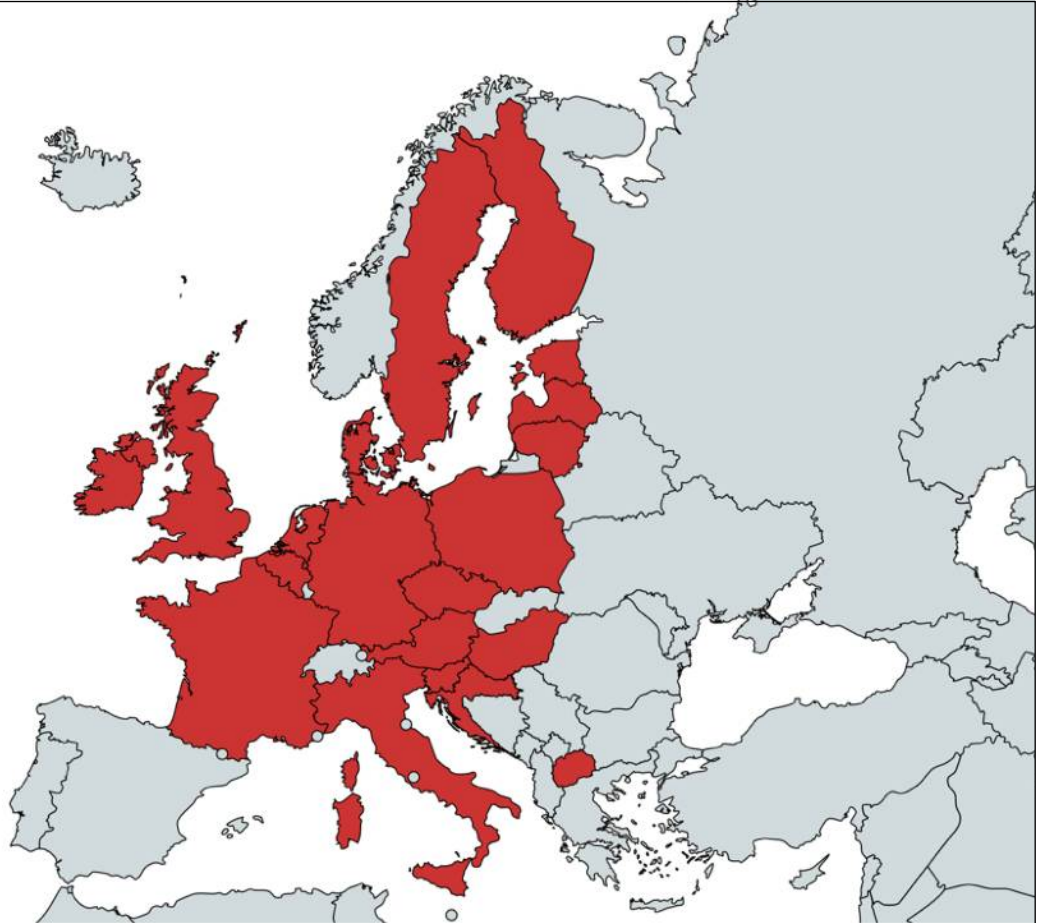
SAULA LED LN INOX: a LED luminaire created specifically for heavy or food industry and other chemically aggressive environments. The housing of the luminaire is produced out of a 316L stainless steel and has a protective cover made from clear tempered glass, acrylic or polycarbonate.

Our clients throughout Europe and beyond are demanding luminaries for environments with special needs. And SAULA LED LN INOX is one way of targeting this whole new market segment. ECOLIGHT is also offering a variety of LED luminaries that are vandal resistant or extreme temperatures resistant.

Dear friends, do continue to read this catalogue to find out more about the ECOLIGHT luminaries and our great enlightening stories from around the globe. Aside from detailed product characterisations, this catalogue includes an overview of product transportation options from Lithuania to your location (p. 4-5); a story about our new solar-powered street light system (p. 6-7); about our German partner RMBH GmbH (p. 8-9); a colourful account of our partner network meeting on 28-30 June 2017 in Dubingiai, Lithuania (p. 11-13), Flicker meter experiment: identifying substandard drivers (p. 13-14).

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TALKING LOGISTICS: THE SECRETS OF EFFICIENT DELIVERY FROM LITHUANIA

"My logisticians are a humorless lot... they know if my campaign fails, they are the first ones I will slay." –

Alexander the Great

The emperor had a point. In business as in war, you can have great strategy and tactics, but poor logistics will undo it all. That is why, at ECOLIGHT, we make it our utmost priority to keep on optimising and perfecting our network of transportation solutions.

Most of the times, our partners leave it to us to find the fastest, safest and least expensive transportation solution. But, as serious business people, they also want to be sure they are getting maximum value for money. We caught up with ECOLIGHT's senior logistician Mr. Dainius Bernotavičius to ask him some logistics questions that are important to our partners.

Dainius, how do ECOLIGHT luminaries reach our partners in Europe?

There are three primary methods which differ in time and cost. The standard method is direct truck deliveries. We load a truck with luminaries on Fridays, and our partners in Slovenia or Germany have them early next week. For example, our partners in Bavaria usually receive the goods on Monday.



Dainius Bernotavičius

You mentioned that products are loaded on to the trucks on Friday. What is the best time to place an order, then?

Good question. If you are using a standard direct truck delivery option, it doesn't matter whether the order is placed on Monday or on Thursday. But it is crucial to prepare goods before Friday if the partner wants to have the luminaries early next week.

This is still about the standard option, right? What are the other options? What about fast delivery or low-cost options?

Yes, we offer both of these options. If our partners need the product super-fast, we use smaller vehicles like minibuses. Minibuses travel in higher speed than trucks. And drivers are not legally obliged to take long rest breaks. Besides, minibuses make less delivery stops. Using this option, our partners in Europe can expect a smooth delivery in 24 to 48 hours which is as fast, and usually faster, than the services of companies like DHL, DPD, or UPS. To European destinations which are further away from Lithuania like Spain, UK and Ireland, the fast delivery option may take up to three days.

We also have an economy option for partners who feel good about waiting a full week. In such cases, we employ transport companies with access to terminals. It's the slowest and most economical method. First, ECOLIGHT LED luminaries are brought to a terminal in Lithuania from where a truck takes the products to a terminal in, say, Germany. Then a small vehicle takes the load from there and delivers it to the client.

Tell us more about pricing. Which factors determine the delivery price?

As we all know, pricing is a bit unpredictable in logistics. You can control some factors like delivery time. But other factors are uncontrollable. One of these factors is the trade balance between Lithuania and the residence country of our partner. Let's say Lithuania exports quite a lot of goods to country x, but we don't import a lot from country x. In that case, the carrier will charge higher price for transportation simply because they will need the exporters to cover the losses resulting from empty returns. So, prices vary depending on the movement of trade tides in Europe and beyond. We always make sure, however, that our clients never pay above the market price.

Let's talk beyond Europe. ECOLIGHT has a lot of business in the Middle East. How are the goods transported to our partners in Jordan and UAE?

Again, there is the quick way, and the low-cost way. The quick way is the land-sea-land route from Lithuania by land to Italian ports, then from there by sea to the ports of Jordan or UAE. The slower and more economical way is the sea route from the port of Klaipėda in Lithuania.

Which carrier companies get the most business from ECOLIGHT?

Those who are best at their job. We hire different companies based on their niche competences. Let me give you several examples. If we need to deliver to the UK, we entrust the job to Delamode or Crome. If the destination is in the Balkans, we usually work with DHL or Helman. For Middle Eastern destinations, we usually hire the services of Schenker. For non-standard tasks, we usually seek the assistance of RM Cargo. The guys at RM Cargo are indispensable when it comes to creative solutions under intense pressure of difficult deadlines and difficult destinations.

What can our clients do to make the logistics process smoother?

I think we need to make sure that our clients think as little as possible about logistics. It's our job to make the whole chain work like a perfect Swiss clock. But some tips I can give. Our partners would save a lot of time by ordering us to deliver directly to the location of the project instead of their warehouse. Another tip would be to give us the delivery deadline as early in the production process as it is possible.

IMPRESSIONS FROM EXHIBITION IN MILANO: EUROLUCE 2017

Dainius Bernotavičius: Participating in this EUROLUCE exhibition has become a main every second year event for ECOLIGHT. Customer from all over the world are always interested in our simple, but effective lighting solutions. Every time in Milano we convert a significant part of new contacts into clients. EUROLUCE was a nice occasion to meet old friends, discuss new technologies with other professionals, and recruit new clients for the ECOLIGHT company. This year we invited to our stand our partners from Italy (MANLED) and Slovenia (ERCO I). Together we have generated over one hundred new leads of high quality. I am sure many of these companies will become satisfied clients.



CONVERTING SUNSHINE INTO LOW-COST ENERGY

ECOLIGHT Launches New Solar LED Street Light



In 2017, ECOLIGHT launched its first solar light product RADIUS SOLAR OFF GRID STREET LIGHT SYSTEM. The system is designed specifically for outdoor off-grid applications where electricity from the grid is not available or is very unreliable. The solar light delivers high-quality, energy-efficient white light.

With this move, the Lithuania-based manufacturer is carving out a niche in the rapidly growing global solar street lighting market. “Solar street lights should no longer be treated as luxury goods,” says ECOLIGHT’s Technical Director Vaidas Kutkaitis, “We took it upon ourselves to eliminate redundant costs and make the product accessible to the larger segments of the market.”

MARKET ENVIRONMENT

The global solar street lighting market is worth roughly 3 billion euros. Strict national and international regulations towards energy conservation and carbon emission reduction will continue to foster a market environment that is conducive for rapid growth. It is projected that the global market size will exceed 13 billion euros by 2024.

The global market is currently dominated by giant manufacturers like Omega Solar, Philips Lighting, Solar Street Lights USA, and Su-Kam Power systems. With RADIUS SOLAR OFF-GRID SYSTEM, however, ECOLIGHT intends to challenge this hegemony in specific market niches, and gain market share in the low-cost segment. The product is intended for public, commercial and household uses.



Vaidas Kutkaitis

NOTEWORTHY FACTS

While targeting the low-cost segment, ECOLIGHT remains committed to using only the finest quality components from leading Dutch manufacturers: Philips Lighting and Victron Energy.

The street light has a Dynadimmer function which allows truly practical programmability. For example, users can program the light to lose 20 percent of intensity from 11.00 pm to 1.00 am, then to lose 80 percent of intensity from 1.00 am to 5.00 am, and then to regain full light intensity during the critical time period from 5.00 am to sunrise.

After being fully charged with solar energy, RADIUS SOLAR OFF GRID STREET LIGHT SYSTEM can remain fully functional for 24 hours. Also noteworthy is the whole system is wireless control: using one's smartphone, the user can easily change settings and program many features via bluetooth.

When contrasted with competitors' products, RADIUS SOLAR OFF-GRID SYSTEM also stands out due to its heavy-duty properties. The street light was manufactured to withstand the harshest environmental conditions, including windstorms.



TWO OPTIONS

The novelty was first demonstrated to partners during the ECOLIGHT training camp on 28-30 June 2017 in Dubingiai, Lithuania. "Our partners from Southern Europe and the Middle East expressed genuine enthusiasm about this product," says Mr. Vaidas, "These are very sunny regions, and our partners there are having no problems finding clients in need for low-cost off-grid solar applications."

The product can be used with either lithium, or gel batteries. Lithium batteries have more than five-year life time, whereas gel batteries have more than a two-year life time. Either way, the street light remains fully functional in temperatures of up to 55 °C.

"In extremely hot environments, we recommend the use of gel batteries which are way cheaper than lithium batteries," explains Mr. Vaidas, "In an unlikely event of a malfunction during a heatwave one would just need to put in a new gel battery".

LAYING THE GROUNDWORK FOR SUCCESS IN GERMANY

an interview with Ralph Müller, general manager at RMBH GmbH



For every manufacturer competing in a global marketplace, the key to success is developing a network of potent local partners. The mover and shaker of ECOLIGHT operations in Germany is Mr. Ralph Müller, the founder and general manager of RMBH GmbH.

Since 2013, RMBH has been operating as ECOLIGHT's official representative in the German market. Throughout these years, Mr. Müller has been a frequent guest in Lithuania. We caught up with Mr. Müller to ask him some questions about the German market and his unique sales strategy for ECOLIGHT luminaries.

Mr. Müller, tell us a bit about yourself, your company and its history. And what does RMBH do for its clients today?

For the last twenty odd years, I have been a managing director or general manager of different small and medium sized companies in Germany, Poland and Romania. In 2011, I decided to channel this experience into a brand-new company. At first, RMBH functioned as a business consultancy. In 2012, I bought a radiant panel business from another company and brought it into RMBH. In 2013, RMBH made another step forward and moved into the lighting sector, and that is when we teamed up with ECOLIGHT. Since then, RMBH is focusing on both heating and lighting, trying to combine both functions in unique 2 in 1 solutions.





I'm sure this will be very interesting for the readers. How does combining heating and LED-lighting look in practice?

You see, both radiant panels and LED luminaries require space on the ceiling. And space is usually limited. As a rule, heating is installed earlier than lighting. Which means that electricians usually lose the battle over ceiling space, and this results in a lot of problems. So, one day I came up with an idea to end this unnecessary competition once and for all by combining heating and LED lighting into a single multifunctional product.

Working with Czech-made Kotrbaty radiant panels and Lithuanian-made ECOLIGHT LED luminaries, in 2015 we realised our first heating/LED-lighting combination projects. But the real breakthrough came in 2016 when we merged the two functions into a totally new product and presented it to the German market. We call it KSP LED Premium and we are immensely proud of it.

What value does KSP LED Premium bring to your clients?

It is truly quite an outstanding product, a highly flexible combination of radiant panels and LED lighting. It can be installed in a variety of spaces ranging from sports halls to industrial premises. So far, the customer feedback has been great. Customers are excited about the performance, flexibility and design of this unique 2 in1 solution.

And what about ECOLIGHT luminaries on their own? Is the German market receptive to ECOLIGHT heavy duty LED luminaries?

More so than I expected at first. You must understand that in Germany we have about 3.500 direct competitors. Then you should add tens of thousands of electricians who are also trying to sell luminaries. So naturally, we started out with balanced ambitions. The breakthrough came when RMBH received an order for ECOLIGHT luminaries from a large wholesaler GIMA. Since then, this customer has been giving us a lot of business, and now most of their sites have ECOLIGHT luminaries installed. Then, through different marketing channels like exhibitions, mailings, print publicity and not to forget word-of-mouth, we started to get more and more inquiries for ECOLIGHT luminaries. Our biggest order yet has come from Kessler & Co, a world market leader for heavy axles. For Kessler & Co, we installed a total of more than 600 high bay luminaries, low bays and street lights.

Mr. Müller, it seems that you manage to find a way to outcompete those scary hordes of competitors. What are the most efficient selling points that you use for ECOLIGHT luminaries?

With ECOLIGHT luminaries, our customers get outstanding price/performance ratio, high quality Philips components, ENEC certification, custom-made products, high flexibility and short delivery terms. In other words, no nonsense, just raw efficiency, as your brand slogan goes.



THE MAKING OF A FAMILY

Impressions from the ECOLIGHT Training Camp in Dubingiai, Lithuania



It is hard to explain but ECOLIGHT seems to attract a very special kind of business people. If a stranger were to wonder upon our company's distributor meeting in Dubingiai, Lithuania (28-30 June 2017), he would be excused for thinking he intruded on a college reunion. Our partners are truly a laid-back, party-loving group of lighting industry professionals.

The ECOLIGHT crew was happy to host guests from Slovenia (Erco I), Jordan (C3E), Czech Republic (NBB), Italy (Manled), Latvia (Proelektro), the Netherlands (Philips Lighting), Poland (INS Lighting and Philips Lighting), and Lithuania (USI International).

COMPLICATED MADE SIMPLE

A special thank-you goes to Mr. Sjef Janssen from Philips headquarters in the Netherlands. Mr. Jansen traveled from Eindhoven to a Lithuanian lakeside to deliver a talk on 'Philips Components: Advantages Against Competition'. In what was a very detailed and informative presentation, Mr. Jansen masterfully explained the internal engineering behind Philips' state-of-the-art LED products.





But he also set out the main challenges lying ahead for ECOLIGHT's distributors. "You may have all the technical advantages in the world," said Mr. Jansen, "But in the end your sales will depend on how capable you are at translating engineering into marketing".

As a response, ECOLIGHT's managing director Tomas Pukas reminded our partners about ECOLIGHT's brand message. He first showed the audience an old commercial from Volkswagen. In this 1969 commercial of a VW Beetle, we see a rather clumsy looking U.S. Lunar Module, the first of many lunar excursion modules to land on the Moon. And then the punchline: "It's Ugly, but It Gets You There."

Mr. Pukas explained that ECOLIGHT's own tagline – 'No Nonsense, Just Raw Efficiency' – delivers a similar message. Our end-customers are happy to pay for cost-efficiency (state-of-the-art Philips lighting solutions), but never for nonsense (inessentials like posh design).

FLICKER METER EXPERIMENT

A lot of what happened in the camp should stay in the camp... But broader audiences may well be interested to learn about our flicker meter experiment. What we did during one of the training sessions was test a variety of luminaries from different manufacturers using a Flicker Meter.

Light flicker refers to quick, recurrent changes in light intensity – light that appears to flutter and shine unsteadily. Too much flicker is indicative of poor lighting, and can cause migraine and fatigue, not to mention impoverished vision. A flicker meter allows to evaluate the quality of luminaries without opening them up. A flicker meter shows data on flickering, light wavelength, light wave frequency, colour recognition and other crucial lighting parameters.



In pages 14-15 of this catalogue, we explain in detail the results of our flicker experiment. For here, it is enough to establish that flicker meter should become a crucial tool for anyone in the lighting industry. With this tool, it becomes refreshingly easy to analyse light quality and identify dishonest and unprofessional manufacturers.

NEXT UP – OCTOBERFEST!

As you can see in the pictures, we had a good time together. During events like this, a network of business partners is transformed into a family. Aside from learning, mastering new technologies and sharing business experiences, we share laughters, we share our life stories, and we grow closer together. A tighter community means higher levels of trust, and trust is the key to any lasting business relationship.

In the words of Mark Twain, “there ain’t no surer way to find out whether you like people or hate them than to travel with them”. Our partners took time from their busy schedules to spend three days on a picturesque Lithuanian lakeside. And they found out something important about their partners. They are in business with people they trust and like.

What’s next? Mr. Ralph Müller, general manager at RMBH GmbH, has invited our entire business community for a weekend of Oktoberfest adventures in Germany. And Mr. Joze Erjavec, general manager at ERCO I, is already planning his response! Joze is proceeding ahead with plans to take the ECOLIGHT team and our distributors on an autumn yacht trip in the Adriatic Sea.

Good times ahead!



FLICKER METER EXPERIMENT: IDENTIFYING SUBSTANDARD DRIVERS

INSIGHTS

One of the topics discussed intensively during the 2017 PHILIPS-ECOLIGHT training camp was the phenomenon of light flicker. The insights that came out from this discussion are relevant to all lighting professionals out there. Using a flicker meter or a simple smart phone, you can determine the quality of LED drivers without opening them up.

Now, light flicker refers to quick, recurrent changes in light intensity – light that appears to flutter and shine unsteadily. During our training camp in Dubingjai, we performed an experiment to compare different luminaire drivers and their characteristics, such as flicker index, flicker frequency and power factor. But before we discuss the results of our flicker meter experiment, we need to understand why flicker is a problem.

RISKS ASSOCIATED WITH FLICKER

Flicker can cause different problems in different environments. High levels of flicker should be considered unacceptable in offices, industrial spaces, hospitals and classrooms. As a general rule, flicker should be considered harmful wherever people are exposed to light for at least several hours a day. Flicker can induce various impairments:

- Neurological problems, including epileptic seizure
- Headaches, fatigue, blurred vision, eyestrain
- Migraines
- Reduced visual task performance
- Increased autistic behaviours, especially in children
- Apparent slowing or stopping of motion (stroboscopic effect)
- Distraction

Aside from being a health hazard, flicker can also cause electronic and mechanical malfunctions. For example, in retail spaces, certain levels of flicker may paralyse barcode scanners. The scanner will cease to function if a room's light source is flickering at a frequency similar to the barcode scanner's carrier. To give another example, flicker may also cause problems for modern camera devices, and may ruin picture quality.

HAVING THE CAKE AND EATING IT TOO

During our experiment, we used a MF250N Flicker Meter to compare different LED drivers. We found out that all drivers that operate at 100Hz frequencies had either a high power factor and poor flickering characteristics, or acceptable flickering characteristics and a poor power factor. This applies to most cheaper LED drivers mostly of Chinese origin.

On the other hand, professional drivers, like Philips Xitanium, tested well for both flicker and power factor. Of course, these drivers operate at much higher frequencies than 100Hz. With Philips Xitanium, you are having the cake and eating it too. Your power factor is great, and you have no problems with flicker.

This experiment shows that lighting professionals now have a simple tool at their disposal to identify substandard drivers without opening them up. One only needs a flicker meter. If a driver operates at a frequency of 100Hz, this should be your first clue that it is not suitable for professional use. Even if it does not produce unacceptable levels of flicker, it means it has a very low power factor, which makes the luminaire unfit for industrial use.



Tomas Pukas



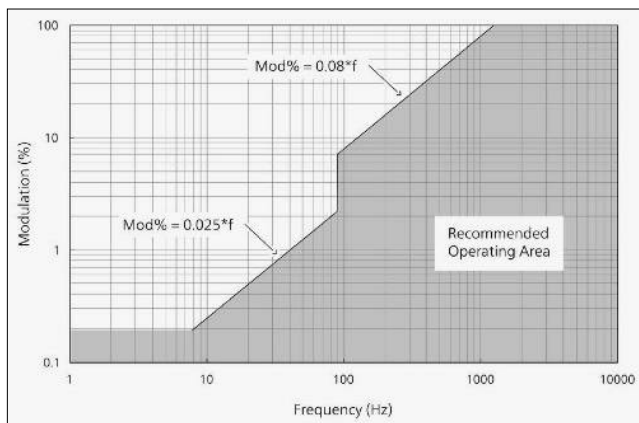
SMART PHONE TRICK

It's also possible to check flicker without a flicker meter. A simple smart phone will suffice. Just go to camera mode and choose a 'slow motion' regime. If a driver of the room's luminaire operates at a frequency of around 100Hz, the camera display screen will flicker. The more it flickers, the higher the flicker index, the bigger your problems. If, however, your LED driver operates at a high level of frequency, no flickering will appear in the shot.

The only drawback of using a smartphone for this purpose is that you won't be able to identify drivers which have solved the flicker problem, but at the cost of very low power factor results.

HOW MUCH FLICKER IS OK?

The New York-based Institute of Electrical and Electronic Engineers (IEEE) introduced a IEEE 1789-2015 standard with several recommendations.



Recommended Practice 1: If it is desired to lower the risk of other biological effects of flicker, then flicker Modulation (%) should satisfy the following goals:

- Below 90 Hz, Modulation (%) is less than $0.025 \times \text{frequency}$.
- Between 90 Hz and 1250 Hz, Modulation (%) is below $0.08 \times \text{frequency}$.
- Above 1250 Hz, there is no restriction on Modulation (%).

This means that to lower the risk of other biological effects Flicker Percent should be less than 8% in Europe (rectified line AC 100Hz).

Recommended Practice 2: If it is desired to prevent the other

biological effects of flicker, then flicker Modulation (%) should be reduced by 2.5 times below the limited biological effect level given in Recommended Practice 1:

Below 90 Hz, Modulation (%) is less than $0.01 \times \text{frequency}$.

- Between 90 Hz and 3000 Hz, Modulation (%) is below $0.0333 \times \text{frequency}$.
- Above 3000 Hz, there is no restriction on Modulation (%).

This means that to prevent the other biological effects of flicker Flicker Percent should be below 3.33% in Europe (rectified line AC 100Hz)

Recommended Practice 3: (seizure prevention) For any lighting source, under all operating scenarios, flicker Modulation (%) shall satisfy the following goal:

- Below 90 Hz, Modulation (%) is less than 5%.

PRODUCT CATALOGUE

LED lighting for sport and industrial applications

THE ENERGY-EFFICIENT HIGH BAY LED LUMINAIRE

Models: LM-EN4/4F/6000, LM-EN5/6F/6000

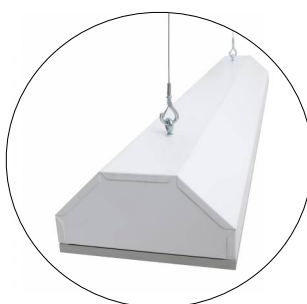
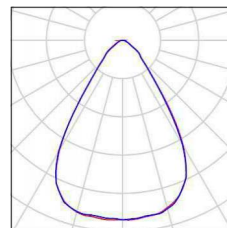
LUMINA LED LM

A POWERHOUSE FOR HARD INDUSTRY

The LUMINA LED LM luminaire is a true-life saver for hard industries. These heavy-duty luminaires are equipped with Philips Fortimo Fast Flex LED modules and Philips Xitanium Outdoor drivers. Originally, Philips developed these technologies for outdoor lighting. Employed indoors, these technologies provide LUMINA LED LM with unparalleled power, reliability and longevity that hard industries crave for.

LED LUMINA LM will give you more than 120.000 hours of excellent performance. What's more, this hard-working luminaire is integrated with a smart overheat prevention system, and can also withstand over-voltages exceeding 10kV. The system features easy double-point mounting for a stress-free installation.

Good to know: This is an excellent solution for facilities with very high ceilings of up to 20 meters.



GENERAL TECHNICAL SPECIFICATIONS			
Supply Voltage	220-240V AC	Number of LED modules	4 or 6
Supply Frequency	50-60 Hz	Lamp family code	Philips FastFlex LED Module
RFI Suppression	EN 55015 / CISPR 15	Lamp color K	3000, 4000 or 5700
Immunity	EN 61547	Colour Rendering Index	>70 or > 80
Harmonics	EN 6100-3-2	Min useful life	See next page
Operating Temperature*	-35 - +40 °C	Driver /power unit/	PHILIPS XITANIUM
Storage Temperature	-40 - +60 °C	Flickering	IEEE 1789
Housing material	0.8 mm powder coated steel	Power factor (full load at 230V)	> 0.90
Enclosure Rating	IP65	Dimmable	Optional
Lid material	PMMA, Polycarbonate or Tempered Glass	Emergency pack	Optional
Cable gland	PG 13.5 or STUCCHI (3-pole) fast plug optional	System Wattage	up to 180W
Impact Resistance	IK07 or IK09	LED module efficiency (max)	up to 150 lm/W
		Lumen output of LED modules (max)	up to 26.296 lm

* Only with Xtr drivers. Otherwise from -20 to +40 °C. Operating Temperature limitations for P/S/EM options see in next page.

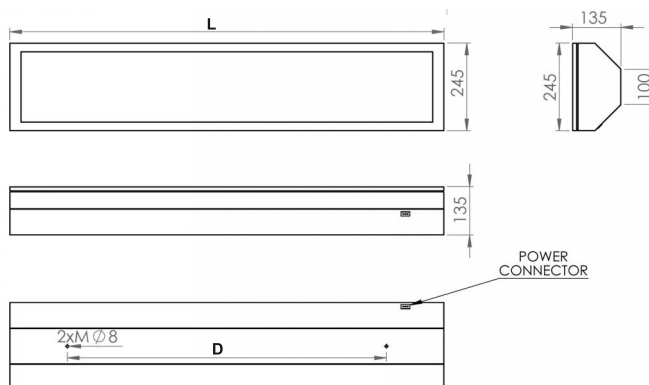
GENERAL TECHNICAL SPECIFICATIONS

EAN	Ref.	Wattage	LED module efficiency (max)	Lumen output of LED modules (max)	Min useful life L80B50	Available Options	Dimensions (mm)*				Optimum Working Height
							D	L	W	H	
4772049000186	LM-EN4/4F/6000	80W	150 lm/W	16.049 lm	120.000 hours at Ta 25C°	S/P/EM/SP/IN	890	1210	245	135	4 - 10 m
					110.000 hours at Ta 40C°						
		100W	142 lm/W	18.929 lm	120.000 hours at Ta 25C°						4 - 15 m
					110.000 hours at Ta 40C°						
		130W	131 lm/W	22.698 lm	90.000 hours at Ta 25C°						4 - 20 m
					70.000 hours at Ta 40C°						
4772049000193	LM-EN5/6F/6000	180W	146 lm/W	26.296 lm	120.000 hours at Ta 25C°		1190	1510	245	135	4 - 20 m
					110.000 hours at Ta 40C°						

* without sensor

EAN	Additional options	Ref.
Multiple selection	PIR Sensor (-10/-30 - +35 °C)	S
Multiple selection	PIR and Light Sensor (-10/-30 - +35 °C)	P
4772049001008	Emergency Pack 3h (1h optional)	EM
4772049001596	Protective Sport Cage	SP
4772049001022	INOX body upgrade	IN

* There is a possibility to order ready-to-use luminaries with desired length of cable installed.



EMERGENCY PACKS

TrustSight LED 40-80mA 2.6W (1 battery)	1 hour
TrustSight LED 40-80mA 2.6W (2 batteries)	3 hours
Operating Temperature	0 - +40 °C



ISO 9001 - ISO 14001
OHSAS 18001

BUREAU VERITAS
Certification



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Liepu str. 15, Linksmakalnis, Kaunas distr. 53290, Lithuania
E: info@ecolight.lt T: +370 5 2328207 F: +370 5 2784262
W: www.ecolight.lt, www.ecolight-lights.co.uk

THE ENERGY-EFFICIENT HIGH BAY LED LUMINAIRE

Models: LD-EN4/2L/4400, LD-EN4/2L/8000

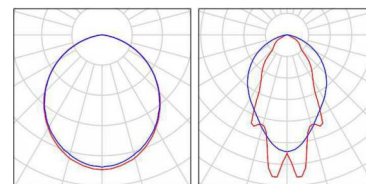
LUMINA LED LD

ANTI-GLARE SOLUTION FOR INDUSTRIAL LIGHTING

The LUMINA LED LD luminaire is the perfect lighting solution for industries based on detailed manual tasks. This anti-glare luminaire is unique in terms of the position of the LED modules inside the system. The modules are attached on the rear end of the structure, leaving a significant space between the modules and front glass. Adding to this, MIRO reflectors and a special matte glass help produce a special light effect similar to that of LED panel light, only much stronger.

LUMINA LED LD luminaires are also available with special Prismatic glass which can further reduce glare. These luminaires can be installed in heights ranging up to 10 meters. LUMINA LED LN can withstand extreme temperatures and work in ambience temperatures up to + 60°C (XT version).

Good to know: The system is fit to withstand over-voltages of 4kV. On special demand, protection can be increased to 10kV.

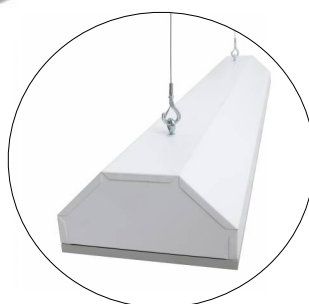


Suitable for extreme temperature conditions.
Ask for XT modification.



Opal PMMA lid
(optional)

Prismatic PMMA lid
(optional)



GENERAL TECHNICAL SPECIFICATIONS

Supply Voltage	220-240V AC
Supply Frequency	50-60 Hz
RFI Suppression	EN 55015 / CISPR 15
Immunity	EN 61547
Harmonics	EN 6100-3-2
Operating Temperature*	-35 - +40 °C
Storage Temperature	-40 - +60 °C
Housing material	0.8 mm powder coated steel
Enclosure Rating	IP65
Lid material	PMMA, Polycarbonate or Tempered Glass
Cable gland	PG 13.5 or STUCCHI (3-pole) fast plug optional
Impact Resistance	IK07 or IK09

Number of LED modules	4
Lamp family code	Philips Fortimo LED
Light colour K	3000, 4000
Colour Rendering Index	> 80 or > 90
Min useful life L80 B50	50.000 h
Driver /power unit/	PHILIPS XITANIUM
Flickering	IEEE 1789
Power factor (full load at 230V)	> 0.90
Dimmable	Optional
Emergency pack	Optional
System Wattage	up to 128W
LED module efficiency (max)	up to 168 lm/W
Lumen output of LED modules (max)	up to 19.743 lm

* Only with Xtr drivers. Otherwise from -20 to +40 °C. Operating Temperature limitations for P/S/EM options see in next page.

GENERAL TECHNICAL SPECIFICATIONS

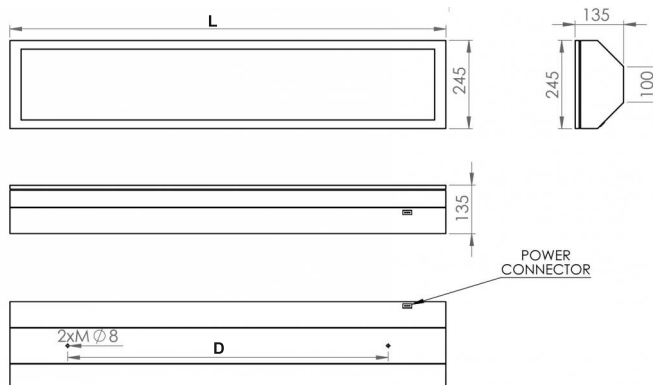
EAN	Ref.	Wattage	LED module efficiency (max)	Lumen output of LED modules (max)	Min useful life L80B50	Available Options	Dimensions (mm)*				Optimum Working Height
							D	L	W	H	
4772049000179	LD-EN4/2L/4400	up to 68W	169 lm/W	11.483 lm	72.000 hours at Ta 25C°	S/P/EM/XT/SP/IN	890	1210	245	135	4 - 10 m
					58.000 hours at Ta 40C°						
4772049000162	LD-EN4/2L/8000	up to 128W	159 lm/W	19.743 lm	100.000 hours at Ta 25C°						
					94.000 hours at Ta 40C°						
					41.000 hours at Ta 60C°						

* without sensor

EAN	Additional options	Ref.
Multiple selection	PIR Sensor (-10/-30 - +35 °C)	S
Multiple selection	PIR and Light Sensor (-10/-30 - +35 °C)	P
4772049001008	Emergency Pack 3h (1h optional)	EM
4772049000940	Enforced version (-35 - +60 °C)	XT
4772049001596	Protective Sport Cage	SP
4772049001022	INOX body upgrade	IN

* Emergency Pack is not available in XT modification.

** There is a possibility to order ready-to-use luminaries with desired length of cable installed.



EMERGENCY PACKS

TrustSight LED 40-80mA 2.6W (1 battery)	1 hour
TrustSight LED 40-80mA 2.6W (2 batteries)	3 hours
Operating Temperature	0 - +40 °C



ISO 9001 - ISO 14001
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THE ENERGY-EFFICIENT HIGH BAY LED LUMINAIRE

Models: LN-EN4/3L/4400, LN-EN4/3L/8000

LUMINA LED LN

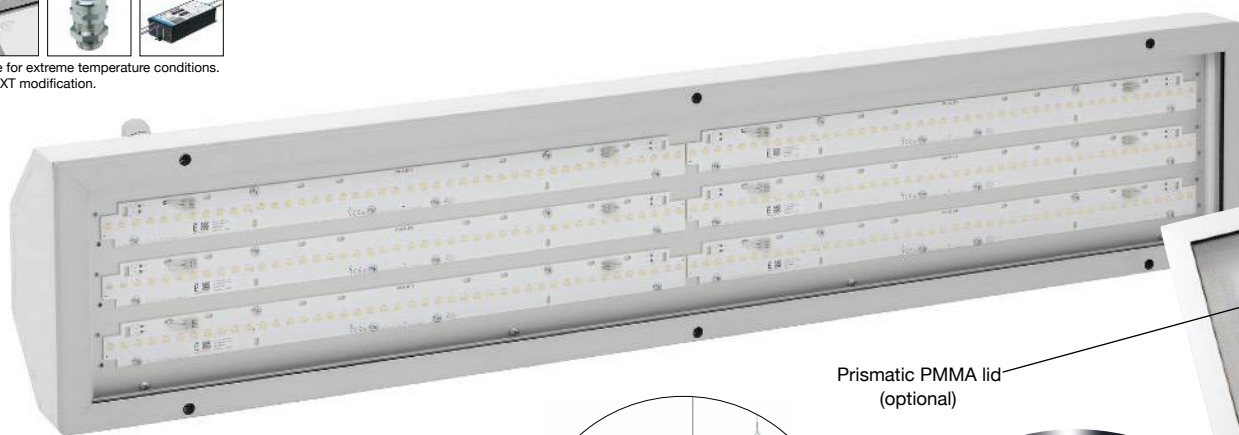
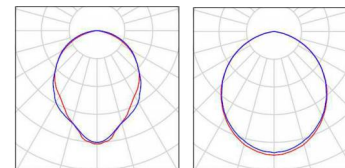
AFFORDABLE EFFICIENCY

An economical option in the LUMINA series, this LED luminaire is widely appreciated among cost-savvy industrialists. Powered by Philips Xitanium Outdoor drivers, LUMINA LED LN is an ultra-efficient luminaire which offers immediate savings of around 70% compared to traditional lightings. LUMINA LED LN luminaires can be installed in heights ranging from 4 meters to up to 20 meters. The system features easy double-point mounting.

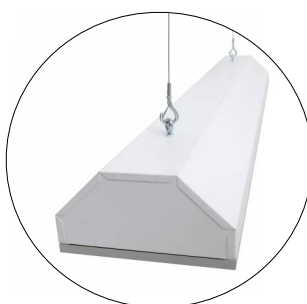
Good to know: LUMINA LED LN can withstand extreme temperatures and can be used in temperatures up to + 60°C (XT version).



Suitable for extreme temperature conditions.
Ask for XT modification.



Prismatic PMMA lid
(optional)



GENERAL TECHNICAL SPECIFICATIONS

Supply Voltage	220-240V AC
Supply Frequency	50-60 Hz
RFI Suppression	EN 55015 / CISPR 15
Immunity	EN 61547
Harmonics	EN 6100-3-2
Operating Temperature*	-35 - +40 °C
Storage Temperature	-40 - +60 °C
Housing material	0.8 mm powder coated steel
Enclosure Rating	IP65
Lid material	PMMA, Polycarbonate or Tempered Glass
Cable gland	PG 13.5 or STUCCHI (3-pole) fast plug optional
Impact Resistance	IK07 or IK09

Number of LED modules	6
Lamp family code	Philips Fortimo LED
Light colour K	3000, 4000, 5000
Colour Rendering Index	> 80 or > 90
Min useful life	See next page
Driver /power unit/	PHILIPS XITANIUM
Flickering	IEEE 1789
Power factor (full load at 230V)	> 0.90
Dimmable	Optional
Emergency pack	Optional
System Wattage	up to 200W
LED module efficiency (max)	up to 171 lm/W
Lumen output of LED modules (max)	up to 29.614 lm

* Only with Xtr drivers. Otherwise from -20 to +40 °C. Operating Temperature limitations for P/S/EM options see in next page.

GENERAL TECHNICAL SPECIFICATIONS

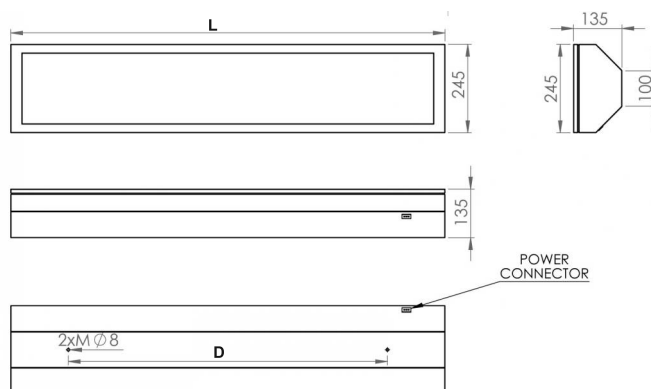
EAN	Ref.	Wattage	LED module efficiency (max)	Lumen output of LED modules (max)	Min useful life L80B50	Available Options	Dimensions (mm)*				Optimum Working Height
							D	L	W	H	
4772049000216	LN-EN4/3L/4400	up to 100W	171 lm/W	16.325 lm	72.000 hours at Ta 25C°	S/P/EM/XT/SP/IN	890	1210	245	135	4 - 10 m
					58.000 hours at Ta 40C°						
4772049000223	LN-EN4/3L/8000	up to 130W	169 lm/W	22.024 lm	100.000 hours at Ta 25C°						4 - 15 m
					94.000 hours at Ta 40C°						
4772049000230	LN-EN4/3L/8000	up to 200W	159 lm/W	29.614 lm	41.000 hours at Ta 60C°						4 - 20 m
					100.000 hours at Ta 25C°						
					94.000 hours at Ta 40C°						
					41.000 hours at Ta 60C°						

* without sensor

EAN	Additional options	Ref.
Multiple selection	PIR Sensor (-10/-30 - +35 °C)	S
Multiple selection	PIR and Light Sensor (-10/-30 - +35 °C)	P
4772049001008	Emergency Pack 3h (1h optional)	EM
4772049000940	Enforced version (-35 - +60 °C)	XT
4772049001596	Protective Sport Cage	SP
4772049001022	INOX body upgrade	IN

* Emergency Pack is not available in XT modification.

** There is a possibility to order ready-to-use luminaries with desired length of cable installed.



EMERGENCY PACKS

TrustSight LED 40-80mA 2.6W (1 battery)	1 hour
TrustSight LED 40-80mA 2.6W (2 batteries)	3 hours
Operating Temperature	0 - +40 °C



ISO 9001 - ISO 14001
OHSAS 18001

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THE ENERGY-EFFICIENT HIGH BAY LED LUMINAIRE

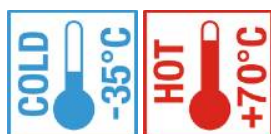
Models: LN-EN4/4L/4400, LN-EN4/4L/8000,
LN-EN4/5L/8000

SAULA LED LN

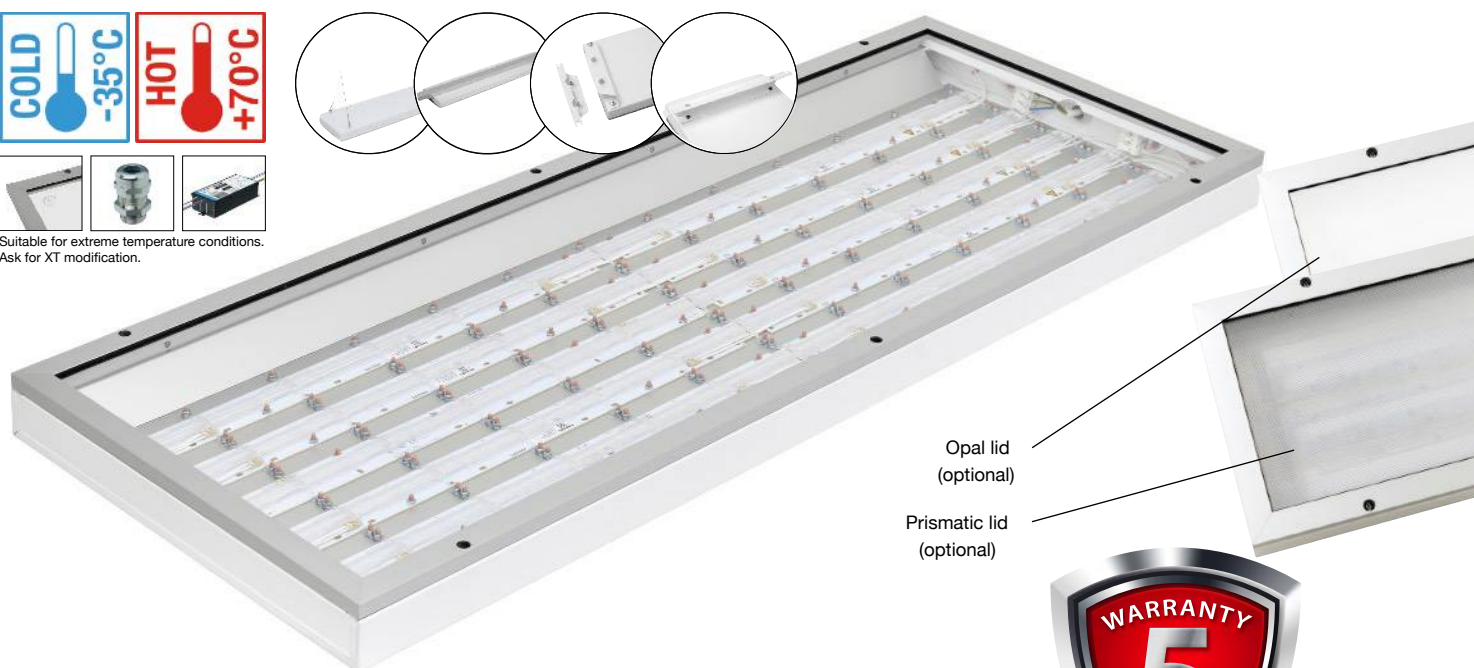
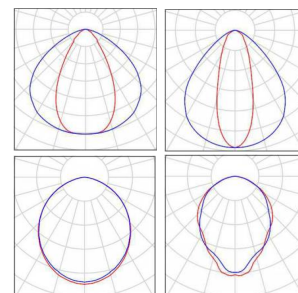
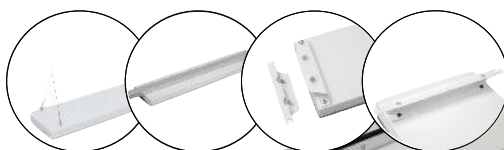
MULTIFUNCTIONAL BESTSELLER

Our flagman product, the SAULA LED LN luminaire is widely appreciated for its outstanding features and a rich variety of modification options. SAULA LED LN has few options for optics, can be covered with either clear, matte (or matte soft diffusers) or anti-glare prismatic diffuser. This LED luminaire is the go-to option for industries dealing with extreme temperatures. Due to unique technical parameters, SAULA LED LN can be used in temperatures up to + 70°C (XT version). The system is fit to withstand over-voltages of 4kV. On special demand, protection can be increased to 10kV.

Good to know: SAULA LED LN has a variety of mounting options.



Suitable for extreme temperature conditions.
Ask for XT modification.



Opal lid
(optional)

Prismatic lid
(optional)



GENERAL TECHNICAL SPECIFICATIONS

Supply Voltage	220-240V AC
Supply Frequency	50-60 Hz
RFI Suppression	EN 55015 / CISPR 15
Immunity	EN 61547
Harmonics	EN 6100-3-2
Operating Temperature*	-35 - +50 °C
Storage Temperature	-40 - +60 °C
Housing material	0.8 mm powder coated steel
Enclosure Rating	IP65
Lid material***	PMMA, Polycarbonate or Tempered Glass
Cable gland****	PG 13.5 or STUCCHI (3-pole) fast plug optional
Impact Resistance	IK07 or IK09

Number of LED modules	8 or 10
Lamp family code	PHILIPS Fortimo LED
Light colour K	3000, 4000 or 5000
Colour Rendering Index	> 80 or >90
Min useful life L80 B50	50.000 h
Driver /power unit/	PHILIPS XITANIUM (TRIDONIC**)
Flickering	IEEE 1789
Power factor (full load at 230V)	> 0.90
Dimmable	Optional
Emergency pack	Optional
System Wattage	up to 300W
LED module efficiency (max)	up to 171 lm/W
Lumen output of LED modules (max)	up to 48.300 lm

* Only with Xtr drivers. Otherwise from -20 to +50 °C. Operating Temperature limitations for P/S/EM options see in next page.

** in LN-EN4/5L/8000 model

GENERAL TECHNICAL SPECIFICATIONS

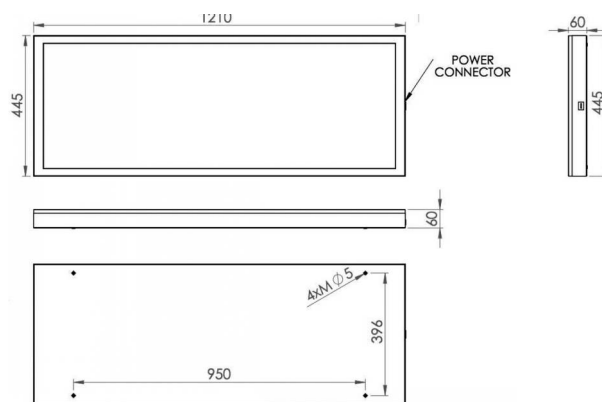
EAN	Ref.	Wattage	LED module efficiency (max)	Lumen output of LED modules (max)	Min useful life L80B50	Available Options	Dimensions (mm)*			Optimum Working Height
							L	W	H	
4772049000254	LN-EN4/4L/4400	up to 134W	171 lm/W	21.766 lm	72.000 hours at Ta 25C ⁰	D/S/P/EM/SP/XT/IN	1210	445	60	2 - 10 m
					58.000 hours at Ta 50C ⁰					
4772049000261	LN-EN4/4L/8000	up to 255W	159 lm/W	39.486 lm	100.000 hours at Ta 25C ⁰	D/S/P/EM/SP/XT/IN				2 - 15 m
					94.000 hours at Ta 50C ⁰					
					41.000 hours at Ta 70C ⁰					
4772049000278	LN-EN4/5L/8000	up to 300W	161 lm/W	48.300 lm	100.000 hours at Ta 25C ⁰	D/S/P/EM/SP/XT/IN				2 - 20 m
					94.000 hours at Ta 50C ⁰					
					41.000 hours at Ta 70C ⁰					

* without sensor

EAN	Additional options	Ref.
Multiple selection	PIR Sensor (-10/-30 - +35 °C)	S
Multiple selection	PIR and Light Sensor (-10/-30 - +35 °C)	P
4772049001008	Emergency Pack 3h (1h optional)*	EM
4772049000964	Enforced version (-35 - +70 °C)	XT
4052899130357	Diffusers	D
4772049001619	Protective Sport Cage	SP
4772049001060	INOX body upgrade	IN

* Emergency Pack is not available in XT modification.

** There is a possibility to order ready-to-use luminaires with desired length of cable installed.



EMERGENCY PACKS

TrustSight LED 40-80mA 2.6W (1 battery)	1 hour
TrustSight LED 40-80mA 2.6W (2 batteries)	3 hours
Operating Temperature	0 - +40 °C



ISO 9001 - ISO 14001
OHSAS 18001

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THE ENERGY-EFFICIENT HIGH BAY LED LUMINAIRE

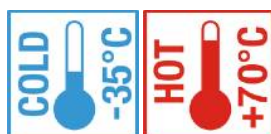
Models: LN-EN4/3L/4400, LN-EN4/3L/8000

SAULA LED LN

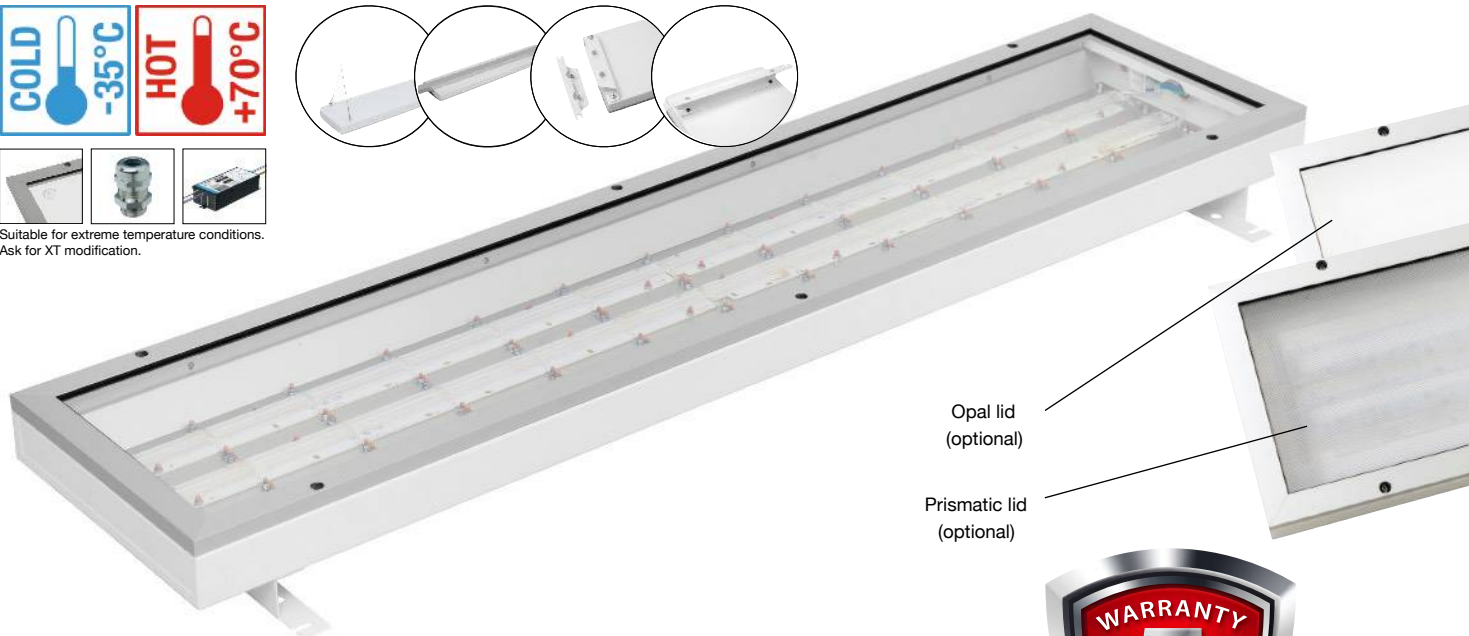
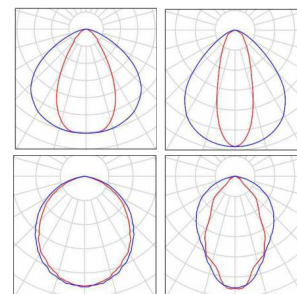
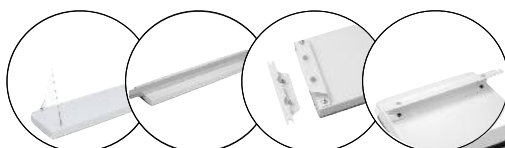
MULTIFUNCTIONAL BESTSELLER

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Good to know: SAULA LED LN has a variety of mounting options.



Suitable for extreme temperature conditions.
Ask for XT modification.



Opal lid
(optional)

Prismatic lid
(optional)



GENERAL TECHNICAL SPECIFICATIONS

Supply Voltage	220-240V AC
Supply Frequency	50-60 Hz
RFI Suppression	EN 55015 / CISPR 15
Immunity	EN 61547
Harmonics	EN 6100-3-2
Operating Temperature*	-35 - +50 °C
Storage Temperature	-40 - +60 °C
Housing material	0.8 mm powder coated steel
Enclosure Rating	IP65
Lid material***	PMMA, Polycarbonate or Tempered Glass
Cable gland****	PG 13.5 or STUCCHI (3-pole) fast plug optional
Impact Resistance	IK07 or IK09

Number of LED modules	6
Lamp family code	PHILIPS Fortimo LED
Light colour K	3000, 4000 or 5000
Colour Rendering Index	> 80 or > 90
Min useful life	See next page
Driver /power unit/	PHILIPS XITANIUM
Flickering	IEEE 1789
Power factor (full load at 230V)	> 0.90
Dimmable	Optional
Emergency pack	Optional
System Wattage	up to 200W
LED module efficiency (max)	up to 171 lm/W
Lumen output of LED modules (max)	up to 29.614 lm

* Only with Xtr drivers. Otherwise from -20 to +50 °C. Operating Temperature limitations for P/S/EM options see in next page.

GENERAL TECHNICAL SPECIFICATIONS

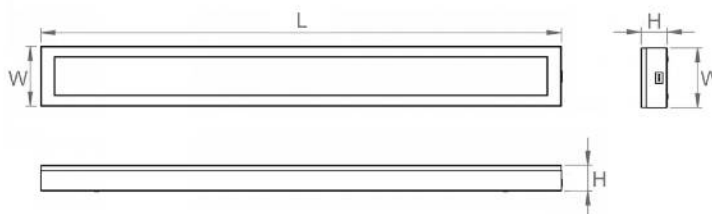
EAN	Ref.	Wattage	LED module efficiency (max)	Lumen output of LED modules (max)	Min useful life L80B50	Available Options	Dimensions (mm)*			Optimum Working Height
							L	W	H	
4772049001954	LN-EN4/3L/4400	up to 100W	171 lm/W	16.325 lm	72.000 hours at Ta 25C° 58.000 hours at Ta 50C°	D/S/P/EM/SP/XT/IN				2 - 5 m
4772049000285	LN-EN4/3L/8000	up to 200W	159 lm/W	29.614 lm	100.000 hours at Ta 25C° 94.000 hours at Ta 50C° 41.000 hours at Ta 70C°	D/S/P/EM/SP/XT/IN	1210	285	60	2 - 8 m

* without sensor

EAN	Additional options	Ref.
Multiple selection	PIR Sensor (-10/-30 - +35 °C)	S
Multiple selection	PIR and Light Sensor (-10/-30 - +35 °C)	P
4772049001008	Emergency Pack 3h (1h optional)*	EM
4772049000964	Enforced version (-35 - +70 °C)	XT
4052899130357	Diffusers	D
4772049001619	Protective Sport Cage	SP
4772049001060	INOX body upgrade	IN

* Emergency Pack is not available in XT modification.

** There is a possibility to order ready-to-use luminaries with desired length of cable installed.



EMERGENCY PACKS

TrustSight LED 40-80mA 2.6W (1 battery)	1 hour
TrustSight LED 40-80mA 2.6W (2 batteries)	3 hours
Operating Temperature	0 - +40 °C



ISO 9001 - ISO 14001
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THE ENERGY-EFFICIENT HIGH BAY LED LUMINAIRE

Models: LN-EN4/2L/4400, LN-EN4/2L/8000

SAULA LED LN

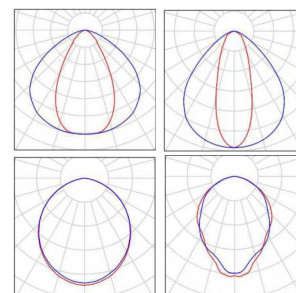
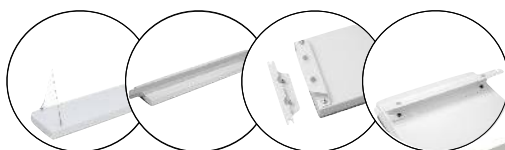
MULTIFUNCTIONAL BESTSELLER

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Good to know: SAULA LED LN has a variety of mounting options.

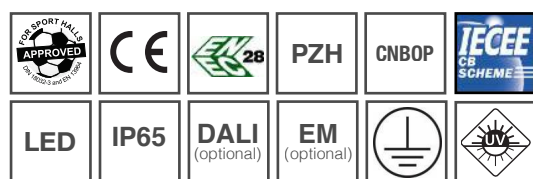


Suitable for extreme temperature conditions.
Ask for XT modification.



Opal lid
(optional)

Prismatic lid
(optional)



GENERAL TECHNICAL SPECIFICATIONS		
Supply Voltage	220-240V AC	Number of LED modules
Supply Frequency	50-60 Hz	4
RFI Suppression	EN 55015 / CISPR 15	Lamp family code
Immunity	EN 61547	PHILIPS Fortimo LED
Harmonics	EN 6100-3-2	Light colour K
Operating Temperature*	-35 - +50 °C	3000, 4000 or 5000
Storage Temperature	-40 - +60 °C	Colour Rendering Index
Housing material	0.8 mm powder coated steel	> 80 or > 90
Enclosure Rating	IP65	Min useful life
Lid material***	PMMA, Polycarbonate or Tempered Glass	See next page
Cable gland****	PG 13.5 or STUCCHI (3-pole) fast plug optional	Driver /power unit/
Impact Resistance	IK07 or IK09	PHILIPS XITANIUM
		Flickering
		IEEE 1789
		Power factor (full load at 230V)
		> 0.90
		Dimmable
		Optional
		Emergency pack
		Optional
		System Wattage
		up to 128W
		LED module efficiency (max)
		up to 186 lm/W
		Lumen output of LED modules (max)
		up to 19.743 lm

* Only with Xtr drivers. Otherwise from -20 to +50 °C. Operating Temperature limitations for P/S/EM options see in next page.

GENERAL TECHNICAL SPECIFICATIONS

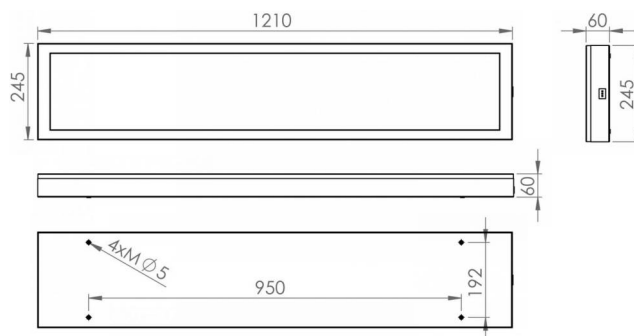
EAN	Ref.	Wattage	LED module efficiency (max)	Lumen output of LED modules (max)	Min useful life L80B50	Available Options	Dimensions (mm)*			Optimum Working Height
							L	W	H	
4772049000292	LN-EN4/2L/4400	up to 68W	171 lm/W	10.883 lm	72.000 hours at Ta 25C° 58.000 hours at Ta 50C°	D/S/P/EM/SP/IN				2 - 10 m
4772049000247	LN-EN4/2L/8000	up to 128W	159 lm/W	19.743 lm	100.000 hours at Ta 25C° 94.000 hours at Ta 50C° 41.000 hours at Ta 70C°	D/S/P/EM/SP/XT/IN	1210	245	60	2 - 15 m

* without sensor

EAN	Additional options	Ref.
Multiple selection	PIR Sensor (-10/-30 - +35 °C)	S
Multiple selection	PIR and Light Sensor (-10/-30 - +35 °C)	P
4772049001008	Emergency Pack 3h (1h optional)*	EM
4772049000964	Enforced version (-35 - +70 °C)	XT
4052899130357	Diffusers	D
4772049001619	Protective Sport Cage	SP
4772049001060	INOX body upgrade	IN

* Emergency Pack is not available in XT modification.

** There is a possibility to order ready-to-use luminaires with desired length of cable installed.



EMERGENCY PACKS

TrustSight LED 40-80mA 2.6W (1 battery)	1 hour
TrustSight LED 40-80mA 2.6W (2 batteries)	3 hours
Operating Temperature	0 - +40 °C



ISO 9001 - ISO 14001
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Liepu str. 15, Linksmakalnis, Kaunas distr. 53290, Lithuania
E: info@ecolight.lt T: +370 5 2328207 F: +370 5 2784262
W: www.ecolight.lt, www.ecolight-lights.co.uk

THE ENERGY-EFFICIENT HIGH BAY LED LUMINAIRE

Models: LN-EN4/1L/4400, LN-EN4/1L/8000,
LN-EN5/1L/5500, LN-EN5/1L/10000

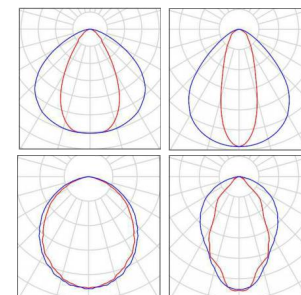
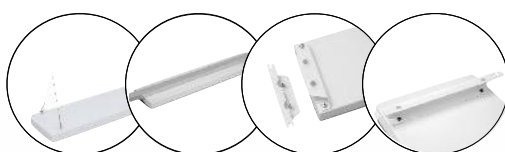
MULTIFUNCTIONAL BESTSELLER

Our flagman product, the SAULA LED LN luminaire is widely appreciated for its outstanding features and a rich variety of modification options. SAULA LED LN has few options for optics, can be covered with either clear, matte (or matte soft diffusers) or anti-glare prismatic diffuser. This LED luminaire is the go-to option for industries dealing with extreme temperatures. Due to unique technical parameters, SAULA LED LN can be used in temperatures up to + 70°C (XT version). The system is fit to withstand over-voltages of 4kV. On special demand, protection can be increased to 10kV.

Good to know: SAULA LED LN has a variety of mounting options.



Suitable for extreme temperature conditions.
Ask for XT modification.



GENERAL TECHNICAL SPECIFICATIONS			
Supply Voltage	220-240V AC	Number of LED modules	2 or 3
Supply Frequency	50-60 Hz	Lamp family code	PHILIPS Fortimo LED
RFI Suppression	EN 55015 / CISPR 15	Light colour K	3000, 4000 or 5000
Immunity	EN 61547	Colour Rendering Index	> 80 or > 90
Harmonics	EN 6100-3-2	Min useful life	See next page
Operating Temperature*	-35 - +50 °C	Driver /power unit/	PHILIPS XITANIUM
Storage Temperature	-40 - +60 °C	Flickering	IEEE 1789
Housing material	0.8 mm powder coated steel	Power factor (full load at 230V)	> 0.90
Enclosure Rating	IP65	Dimmable	Optional
Lid material***	PMMA, Polycarbonate or Tempered Glass	Emergency pack	Optional
Cable gland****	PG 13.5 or STUCCHI (3-pole) fast plug optional	System Wattage	up to 75W
Impact Resistance	IK07 or IK09	LED module efficiency (max)	up to 168 lm/W
		Lumen output of LED modules (max)	up to 12.019 lm

* Only with Xtr drivers. Otherwise from -20 to +50 °C. Operating Temperature limitations for P/S/EM options see in next page.

GENERAL TECHNICAL SPECIFICATIONS

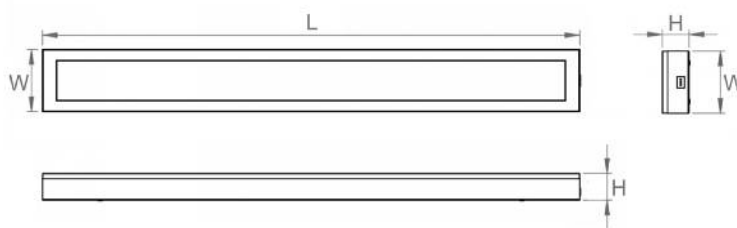
EAN	Ref.	Wattage	LED module efficiency (max)	Lumen output of LED modules (max)	Min useful life L80B50	Available Options	Dimensions (mm)*			Optimum Working Height
							L	W	H	
4772049000308	LN-EN4/1L/4400	up to 35W	168 lm/W	5.877 lm	72.000 hours at Ta 25C ⁰	D/S/P/EM/SP/IN	1210	175	60	2 - 5 m
					58.000 hours at Ta 50C ⁰					
4772049000315	LN-EN4/1L/8000	up to 65W	159 lm/W	9.871 lm	100.000 hours at Ta 25C ⁰	D/S/P/EM/SP/XT/IN	1210	175	60	2 - 5 m
					94.000 hours at Ta 50C ⁰					
					41.000 hours at Ta 70C ⁰					
4772049000322	LN-EN5/1L/5500	up to 45W	167 lm/W	7.514 lm	72.000 hours at Ta 25C ⁰	D/S/P/EM/SP/IN	1510	175	60	2 - 8 m
					58.000 hours at Ta 50C ⁰					
4772049000339	LN-EN5/1L/10000	up to 75W	160 lm/W	12.019 lm	100.000 hours at Ta 25C ⁰	D/S/P/EM/SP/XT/IN	1510	175	60	2 - 8 m
					94.000 hours at Ta 50C ⁰					
					41.000 hours at Ta 70C ⁰					

* without sensor

EAN	Additional options	Ref.
Multiple selection	PIR Sensor (-10/-30 - +35 °C)	S
Multiple selection	PIR and Light Sensor (-10/-30 - +35 °C)	P
4772049001008	Emergency Pack 3h (1h optional)*	EM
4772049000964	Enforced version (-35 - +70 °C)	XT
4052899130357	Diffusers	D
4772049001619	Protective Sport Cage	SP
4772049001060	INOX body upgrade	IN

* Emergency Pack is not available in XT modification.

** There is a possibility to order ready-to-use luminaires with desired length of cable installed.



EMERGENCY PACKS

TrustSight LED 40-80mA 2.6W (1 battery)	1 hour
TrustSight LED 40-80mA 2.6W (2 batteries)	3 hours
Operating Temperature	0 - +40 °C



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Liepu str. 15, Linksmakalnis, Kaunas distr. 53290, Lithuania
E: info@ecolight.lt T: +370 5 2328207 F: +370 5 2784262
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THE ENERGY-EFFICIENT HIGH BAY LED LUMINAIRE

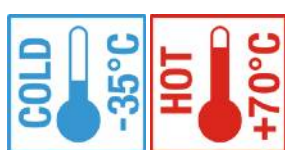
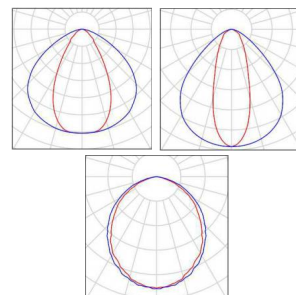
Models: LN-EN4/1L/4400, LN-EN4/1L/8000,
LN-EN5/1L/5500, LN-EN5/1L/10000

SAULA INOX LED LN

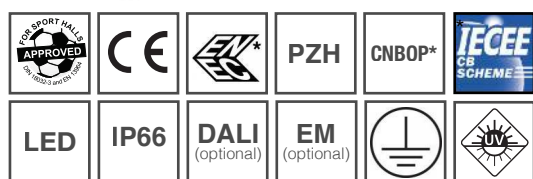
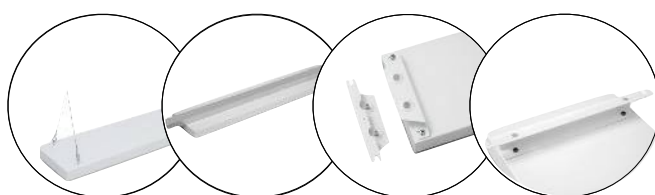
THE GO-TO OPTION FOR FOOD PROCESSING INDUSTRIES

SAULA LED LN INOX is designed to meet the robust requirements of food processing industries. Food processing environments require luminaires that are resistant to corrosion, and can withstand rigorous disinfection protocols. SAULA LED LN INOX is made from premium quality 316L stainless steel. It features all the functionalities and characteristics of standard SAULA LED LN luminaires.

Good to know: SAULA LED LN INOX is an IP66 rated luminaire.



Suitable for extreme temperature conditions.
Ask for XT modification.



GENERAL TECHNICAL SPECIFICATIONS			
Supply Voltage	220-240V AC	Number of LED modules	2 or 3
Supply Frequency	50-60 Hz	Lamp family code	PHILIPS Fortimo LED
RFI Suppression	EN 55015 / CISPR 15	Light color K	3000, 4000 or 5000
Immunity	EN 61547	Color Rendering Index	> 80 or > 90
Harmonics	EN 6100-3-2	Min useful life	See next page
Operating Temperature**	-35 - +50 °C	Driver /power unit/	PHILIPS XITANIUM
Storage Temperature	-40 - +60 °C	Flickering	IEEE 1789
Housing material	Stainless steel	Power factor (full load at 230V)	> 0.90
Enclosure Rating	IP66	Dimmable	Optional
Lid material	Tempered Glass	Emergency pack	Optional
Cable gland	Stainless steel	System Wattage	up to 75W
Impact Resistance	IK07 or IK09	LED module efficiency (max)	up to 168 lm/W
		Lumen output of LED modules (max)	up to 12.019 lm

* in preparation

** Only with Xtr drivers. Otherwise from -20 to +50 °C. Operating Temperature limitations for EM option see in next page.

GENERAL TECHNICAL SPECIFICATIONS

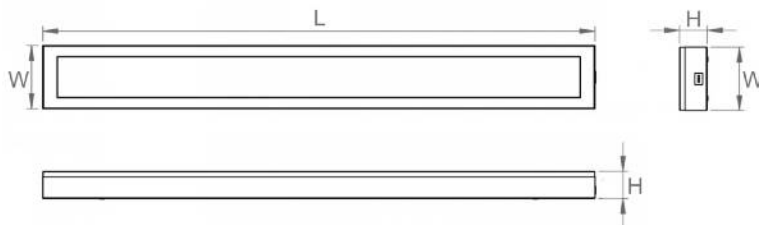
EAN	Ref.	Wattage	LED module efficiency (max)	Lumen output of LED modules (max)	Min useful life L80B50	Available Options	Dimensions (mm)*			Optimum Working Height
							L	W	H	
4772049002081	LN-EN4/1L/4400	up to 35W	168 lm/W	5.877 lm	72.000 hours at Ta 25C ⁰	D/EM				
					58.000 hours at Ta 50C ⁰					
4772049002098	LN-EN4/1L/8000	up to 65W	159 lm/W	9.871 lm	100.000 hours at Ta 25C ⁰	D/EM/XT	1210	175	60	2 - 5 m
					94.000 hours at Ta 50C ⁰					
					41.000 hours at Ta 70C ⁰					
4772049002104	LN-EN5/1L/5500	up to 45W	167 lm/W	7.514 lm	72.000 hours at Ta 25C ⁰	D/EM				
					58.000 hours at Ta 50C ⁰					
4772049002111	LN-EN5/1L/10000	up to 75W	160 lm/W	12.019 lm	100.000 hours at Ta 25C ⁰	D/EM/XT	1510	175	60	2 - 8 m
					94.000 hours at Ta 50C ⁰					
					41.000 hours at Ta 70C ⁰					

* without sensor

EAN	Additional options	Ref.
4772049001008	Emergency Pack 3h (1h optional)*	EM
4772049000933	Enforced version (-35 - +70 °C)	XT
4052899130357	Diffusers	D

* Emergency Pack is not available in XT modification.

** There is a possibility to order ready-to-use luminaries with desired length of cable installed.



EMERGENCY PACKS

TrustSight LED 40-80mA 2.6W (1 battery)	1 hour
TrustSight LED 40-80mA 2.6W (2 batteries)	3 hours
Operating Temperature	0 - +40 °C



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E: info@ecolight.lt T: +370 5 2328207 F: +370 5 2784262
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THE ENERGY-EFFICIENT HIGH BAY LED LUMINAIRE

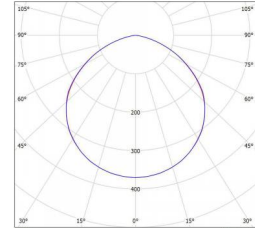
Models: RM-EN1/1L/26000

A SMART WAY TO UPGRADE EFFICIENCY

If you are looking to upgrade on your old lighting systems quipped with HIE/ HIT or HSE/HST lamps (250W or 400W), this is your answer. RAMUNE LED RM IP67 is simply a great LED lighting solution that works as a 1:1 replacement for your old, less efficient systems. For cost-savvy companies with standard industry needs, RAMUNE LED RM is the smartest way to eliminate waste and upgrade efficiency.

Good to know: RAMUNE LED RM IP67 features easy single-point mounting.

RAMUNE LED RM



GENERAL TECHNICAL SPECIFICATIONS

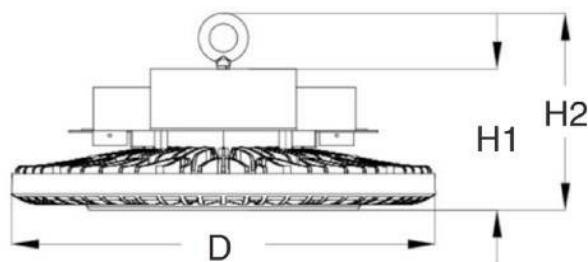
Supply Voltage	220-240V AC	Number of LED modules	1
Supply Frequency	50-60 Hz	Lamp family code	TRIDONIC CLE G1
RFI Suppression	EN 55015 / CISPR 15	Light colour K	4000, 5000 or 6500
Immunity	EN 61547	Colour Rendering Index	> 80
Harmonics	EN 6100-3-2	Min useful life	See next page
Operating Temperature	-25 - +45 °C	Driver /power unit/	TRIDONIC or PHILIPS XITANIUM
Storage Temperature	-40 - +60 °C	Flickering	IEEE 1789
Housing material	Cast Aluminum	Power factor (full load at 230V)	> 0.90
Enclosure Rating	IP67	Dimmable	1-10V (optional)
Lid material	Tempered Glass	System Wattage	up to 200W
Cable gland	Stainless steel	LED module efficiency (max)	up to 147 lm/W
Protection class IEC	Safety class I	Lumen output of LED modules (max)	up to 27.600 lm

* in preparation

GENERAL TECHNICAL SPECIFICATIONS

EAN	Ref.	Wattage	LED module efficiency (max)	Lumen output of LED modules (max)	Min useful life L80B50	Dimensions (mm)			Optimum Working Height
						D	H1	H2	
4772049001916	RM-EN1/1L/26000	92W	134 lm/W	12.355 lm	>50.000 hours at Ta 45C°	390	165	180	4 - 8 m
4772049002067	RM-EN1/1L/26000	123W	131 lm/W	16.113 lm	>50.000 hours at Ta 45C°				5 - 10 m
4772049002074	RM-EN1/1L/26000	186W	126 lm/W	23.436 lm	>50.000 hours at Ta 45C°				5 - 12 m
4772049001923	RM-EN1/1L/26000	200W	124 lm/W	24.800 lm	>50.000 hours at Ta 45C°				5 - 12 m

* There is a possibility to order ready-to-use luminaries with desired length of cable installed.



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E: info@ecolight.lt T: +370 5 2328207 F: +370 5 2784262
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THE ENERGY-EFFICIENT HIGH BAY LED LUMINAIRE

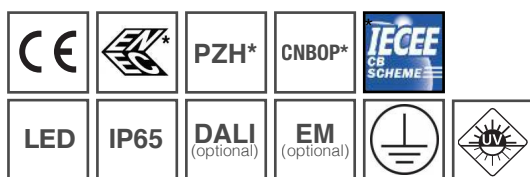
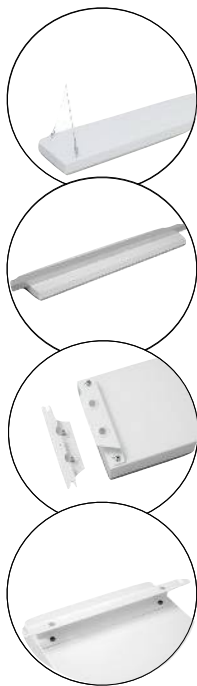
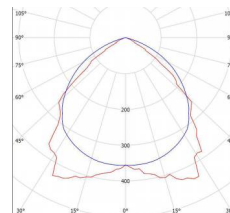
Models: SW-EN1/4L/1100, SW-EN1/4L/2000

SAULA LED SW

WHEN SIZE AND SHAPE MATTER

These unique models were created for niche industry needs. Uniquely shaped and sized, ELUMA LED SW is an ultra-efficient lighting system. Gains in efficiency are obtained through the use of state-of-the-art MIRO reflectors.

Good to know: LED modules are positioned deep in the system to prevent glare.



GENERAL TECHNICAL SPECIFICATIONS			
Supply Voltage	220-240V AC	Number of LED modules	4
Supply Frequency	50-60 Hz	Lamp family code	PHILIPS Fortimo
RFI Suppression	EN 55015 / CISPR 15	Light colour K	3000, 4000, 5000
Immunity	EN 61547	Colour Rendering Index	> 80 or > 90
Harmonics	EN 6100-3-2	Min useful life	See next page
Operating Temperature**	-35 - +50 °C	Driver /power unit/	PHILIPS XITANIUM
Storage Temperature	-40 - +60 °C	Flickering	IEEE 1789
Housing material	0.8 mm powder coated steel	Power factor (full load at 230V)	> 0.90
Enclosure Rating	IP65	Dimmable	Optional
Lid material	PMMA or Polycarbonate	Emergency pack	Optional
Cable gland	PG 13.5 or STUCCHI (3-pole) fast plug optional	System Wattage	up to 68W
Impact Resistance	IK07 or IK09	LED module efficiency (max)	up to 167 lm/W
		Lumen output of LED modules (max)	up to 10.210 lm

* in preparation

** Only with Xtr drivers. Otherwise from -20 to +50 °C. Operating Temperature limitations for EM options see in next page.

GENERAL TECHNICAL SPECIFICATIONS

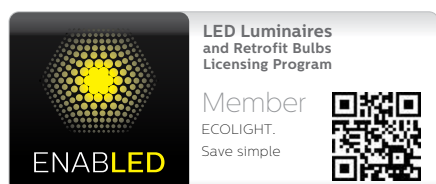
EAN	Ref.	Wattage	LED module efficiency (max)	Lumen output of LED modules (max)	Min useful life L80B50	Available Options	Dimensions (mm)			Optimum Working Height
							L	W	H	
4772049000346	SW-EN1/4L/1100	up to 36W	167 lm/W	6.011 lm	72.000 hours at Ta 25C° 58.000 hours at Ta 50C°	S/P/EM/SP	440	430	75	2 - 7 m
4772049000353	SW-EN1/4L/2000	up to 68W	163 lm/W	10.210 lm	69.000 hours at Ta 25C° 69.000 hours at Ta 50C°					

EAN	Additional options	Ref.
Multiple selection	PIR Sensor (-10/-30 - +35 °C)	S
Multiple selection	PIR and Light Sensor (-10/-30 - +35 °C)	P
4772049001008	Emergency Pack 3h (1h optional)	EM
4772049001619	Protective Sport Cage	SP

* There is a possibility to order ready-to-use luminaries with desired length of cable installed.

EMERGENCY PACKS

TrustSight LED 40-80mA 2.6W (1 battery)	1 hour
TrustSight LED 40-80mA 2.6W (2 batteries)	3 hours
Operating Temperature	0 - +40 °C



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E: info@ecolight.lt T: +370 5 2328207 F: +370 5 2784262
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SAULA LED SN

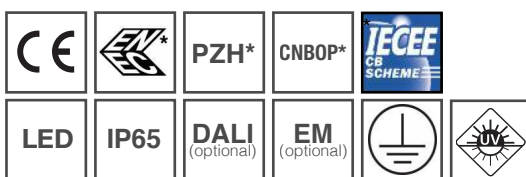
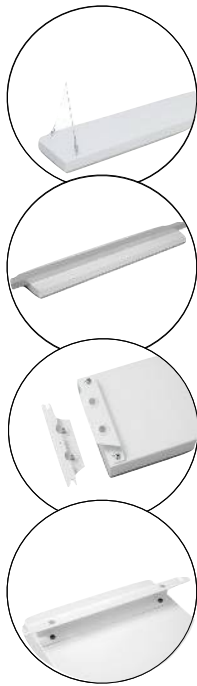
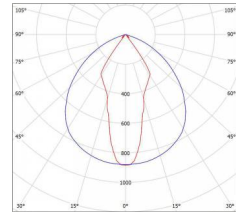
THE ENERGY-EFFICIENT HIGH BAY LED LUMINAIRE

Models: SN-EN1/4L/1100, SN-EN1/4L/2000

WHEN SIZE AND SHAPE MATTER

These unique models were created for niche industry needs. Uniquely shaped and sized, ELUMA LED SN is an ultra-efficient lighting system. Gains in efficiency are obtained through the use of state-of-the-art MIRO reflectors.

Good to know: LED modules are positioned deep in the system to prevent glare.



GENERAL TECHNICAL SPECIFICATIONS			
Supply Voltage	220-240V AC	Number of LED modules	4
Supply Frequency	50-60 Hz	Lamp family code	PHILIPS Fortimo
RFI Suppression	EN 55015 / CISPR 15	Light colour K	3000, 4000, 5000
Immunity	EN 61547	Colour Rendering Index	> 80 or > 90
Harmonics	EN 6100-3-2	Min useful life	See next page
Operating Temperature**	-35 - +50 °C	Driver /power unit/	PHILIPS XITANIUM
Storage Temperature	-40 - +60 °C	Flickering	IEEE 1789
Housing material	0.8 mm powder coated steel	Power factor (full load at 230V)	> 0.90
Enclosure Rating	IP65	Dimmable	Optional
Lid material	PMMA or Polycarbonate	Emergency pack	Optional
Cable gland	PG 13.5 or STUCCHI (3-pole) fast plug optional	System Wattage	up to 68W
Impact Resistance	IK07 or IK09	LED module efficiency (max)	up to 167 lm/W
		Lumen output of LED modules (max)	up to 10.210 lm

* in preparation

** Only with Xtr drivers. Otherwise from -20 to +50 °C. Operating Temperature limitations for EM options see in next page.

GENERAL TECHNICAL SPECIFICATIONS

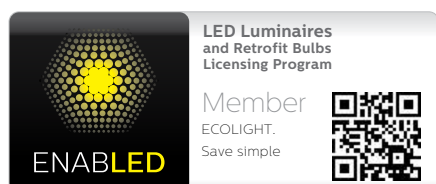
EAN	Ref.	Wattage	LED module efficiency (max)	Lumen output of LED modules (max)	Min useful life L80B50	Available Options	Dimensions (mm)			Optimum Working Height
							L	W	H	
4772049000360	SN-EN1/4L/1100	up to 36W	167 lm/W	6.011 lm	72.000 hours at Ta 25C° 58.000 hours at Ta 50C°	S/P/EM/SP	440	430	75	2 - 7 m
4772049000377	SN-EN1/4L/2000	up to 68W	163 lm/W	10.210 lm	69.000 hours at Ta 25C° 69.000 hours at Ta 50C°					

EAN	Additional options	Ref.
Multiple selection	PIR Sensor (-10/-30 - +35 °C)	S
Multiple selection	PIR and Light Sensor (-10/-30 - +35 °C)	P
4772049001008	Emergency Pack 3h (1h optional)	EM
4772049001619	Protective Sport Cage	SP

* There is a possibility to order ready-to-use luminaries with desired length of cable installed.

EMERGENCY PACKS

TrustSight LED 40-80mA 2.6W (1 battery)	1 hour
TrustSight LED 40-80mA 2.6W (2 batteries)	3 hours
Operating Temperature	0 - +40 °C



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THE ENERGY-EFFICIENT HIGH BAY LED LUMINAIRE

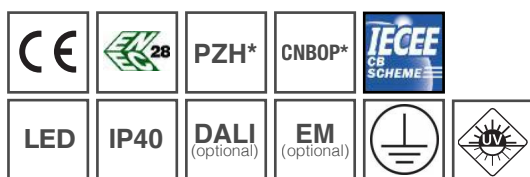
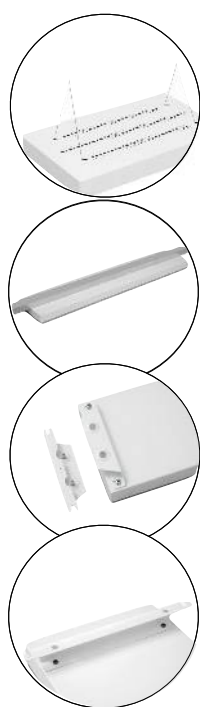
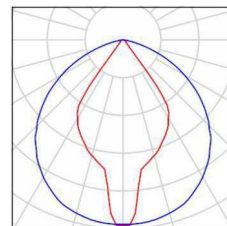
Models: EC-EN2/4L/2200, EC-EN2/4L/4000

ECOLINE
LED EC

LOW-COST OPTION FOR WAREHOUSES

ECOLINE LED EC luminaire was designed specifically for the illumination of warehouse spaces. Cost-efficiency gains were obtained by cutting redundant functions and features. Warehouse illumination does not require IP65 rating, so they were reduced to IP40. A simplified structure still permits great thermal characteristics. ECOLINE LED EC can be used in temperatures up to + 50°C.

Good to know: ECOLINE LED EC was designed to give the optimal light for both the hallway and the shelving racks.



GENERAL TECHNICAL SPECIFICATIONS

Supply Voltage	220-240V AC
Supply Frequency	50-60 Hz
RFI Suppression	EN 55015 / CISPR 15
Immunity	EN 61547
Harmonics	EN 6100-3-2
Operating Temperature**	-35 - +50 °C
Storage Temperature	-40 - +60 °C
Housing material	0.8 mm powder coated steel
Enclosure Rating	IP40
Lid material	PMMA or Polycarbonate
Cable gland	PG 13.5 or STUCCHI (3-pole) fast plug optional
Protection class IEC	Safety class I

Number of LED modules	4
Lamp family code	PHILIPS Fortimo
Light colour K	3000, 4000, 5000
Colour Rendering Index	> 80 or > 90
Min useful life	See next page
Driver /power unit/	PHILIPS XITANIUM
Flickering	IEEE 1789
Power factor (full load at 230V)	> 0.90
Dimmable	Optional
Emergency pack	Optional
System Wattage	up to 128W
LED module efficiency (max)	up to 169 lm/W
Lumen output of LED modules (max)	up to 19.743 lm

* in preparation

** Only with Xtr drivers. Otherwise from -20 to +35 °C. Operating Temperature limitations for EM options see in next page.

GENERAL TECHNICAL SPECIFICATIONS

EAN	Ref.	Wattage	LED module efficiency (max)	Lumen output of LED modules (max)	Min useful life L80B50	Available Options	Dimensions (mm)*			Optimum Working Height
							L	W	H	
4772049000131	EC-EN2/4L/2200	up to 68W	169 lm/W	11.492 lm	72.000 hours at Ta 25C ⁰	SP/EM/S/P	640	385	75	2 - 10 m
					58.000 hours at Ta 35C ⁰					
4772049000124	EC-EN2/4L/4000	up to 128W	159 lm/W	19.743 lm	100.000 hours at Ta 25C ⁰					2 - 15 m
					94.000 hours at Ta 35C ⁰					

* without sensor

EAN	Additional options	Ref.
Multiple selection	PIR Sensor (-10/-30 - +35 °C)	S
Multiple selection	PIR and Light Sensor (-10/-30 - +35 °C)	P
4772049001008	Emergency Pack 3h (1h optional)	EM
4772049001596	Protective Sport Cage	SP

* There is a possibility to order ready-to-use luminaries with desired length of cable installed.

EMERGENCY PACKS

TrustSight LED 40-80mA 2.6W (1 battery)	1 hour
TrustSight LED 40-80mA 2.6W (2 batteries)	3 hours
Operating Temperature	0 - +35 °C



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ELEKTROS TAUPYMO SPRENDIMAI, UAB
Didlaukio str. 94-22, Vilnius 08332, Lithuania
Liepu str. 15, Linksmakalnis, Kaunas distr. 53290, Lithuania
E: info@ecolight.lt T: +370 5 2328207 F: +370 5 2784262
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THE ENERGY-EFFICIENT HIGH BAY LED LUMINAIRE

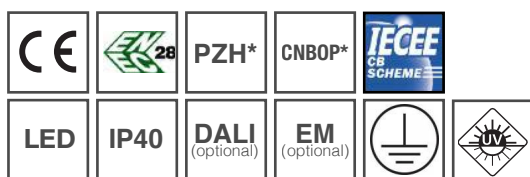
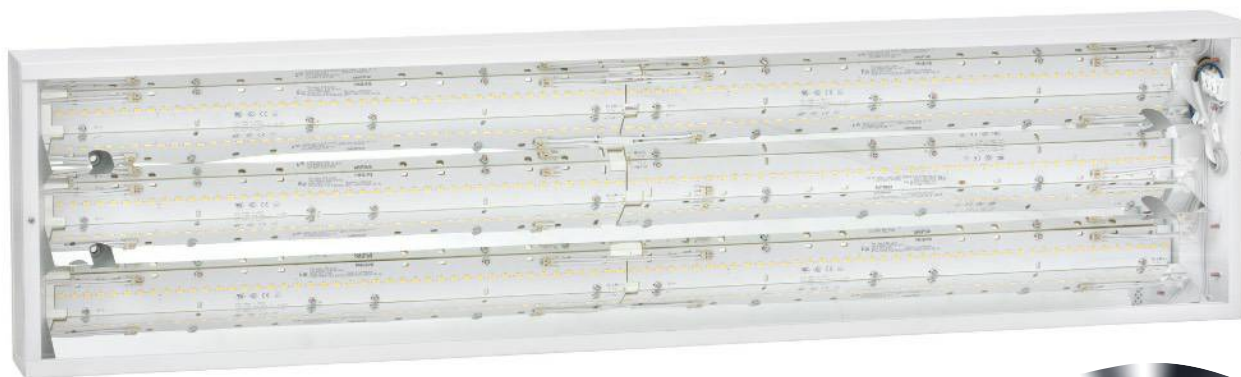
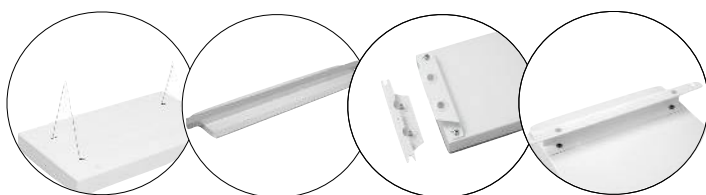
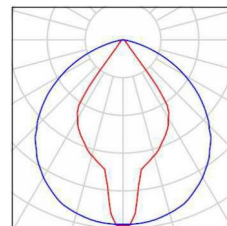
Models: EC-EN4/3L/4400, EC-EN4/3L/8000

ECOLINE
LED EC

LOW-COST OPTION FOR WAREHOUSES

ECOLINE LED EC luminaire was designed specifically for the illumination of warehouse spaces. Cost-efficiency gains were obtained by cutting redundant functions and features. Warehouse illumination does not require IP65 rating, so they were reduced to IP40. A simplified structure still permits great thermal characteristics. ECOLINE LED EC can be used in temperatures up to + 50°C.

Good to know: ECOLINE LED EC was designed to give the optimal light for both the hallway and the shelving racks.



GENERAL TECHNICAL SPECIFICATIONS

Supply Voltage	220-240V AC
Supply Frequency	50-60 Hz
RFI Suppression	EN 55015 / CISPR 15
Immunity	EN 61547
Harmonics	EN 6100-3-2
Operating Temperature	-35 - +50 °C
Storage Temperature	-40 - +60 °C
Housing material	0.8 mm powder coated steel
Enclosure Rating	IP40
Lid material	PMMA or Polycarbonate
Cable gland	PG 13.5 or STUCCHI (3-pole) fast plug optional
Protection class IEC	Safety class I

Number of LED modules	6
Lamp family code	PHILIPS Fortimo
Light colour K	3000, 4000, 5000
Colour Rendering Index	> 80 or > 90
Min useful life	See next page
Driver /power unit/	PHILIPS XITANIUM
Flickering	IEEE 1789
Power factor (full load at 230V)	> 0.90
Dimmable	Optional
Emergency pack	Optional
System Wattage	up to 200W
LED module efficiency (max)	up to 171 lm/W
Lumen output of LED modules (max)	up to 29.614 lm

* in preparation

** Only with Xtr drivers. Otherwise from -20 to +35 °C. Operating Temperature limitations for EM options see in next page.

GENERAL TECHNICAL SPECIFICATIONS

EAN	Ref.	Wattage	LED module efficiency (max)	Lumen output of LED modules (max)	Min useful life L80B50	Available Options	Dimensions (mm)*			Optimum Working Height
							L	W	H	
4772049000100	EC-EN4/3L/4400	up to 100W	171 lm/W	16.325 lm	72.000 hours at Ta 25C ⁰	SP/EM/S/P	1205	295	75	2 - 10 m
					58.000 hours at Ta 35C ⁰					
4772049000117	EC-EN4/3L/8000	up to 200W	159 lm/W	29.614 lm	100.000 hours at Ta 25C ⁰					2 - 15 m
					94.000 hours at Ta 35C ⁰					

* without sensor

EAN	Additional options	Ref.
Multiple selection	PIR Sensor (-10/-30 - +35 °C)	S
Multiple selection	PIR and Light Sensor (-10/-30 - +35 °C)	P
4772049001008	Emergency Pack 3h (1h optional)	EM
4772049001596	Protective Sport Cage	SP

* There is a possibility to order ready-to-use luminaries with desired length of cable installed.

EMERGENCY PACKS

TrustSight LED 40-80mA 2.6W (1 battery)	1 hour
TrustSight LED 40-80mA 2.6W (2 batteries)	3 hours
Operating Temperature	0 - +35 °C



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E: info@ecolight.lt T: +370 5 2328207 F: +370 5 2784262
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THE ENERGY-EFFICIENT HIGH BAY LED LUMINAIRE

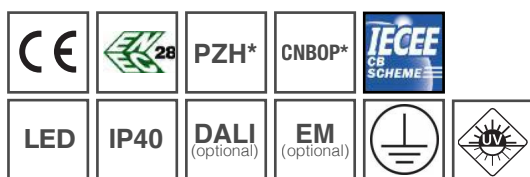
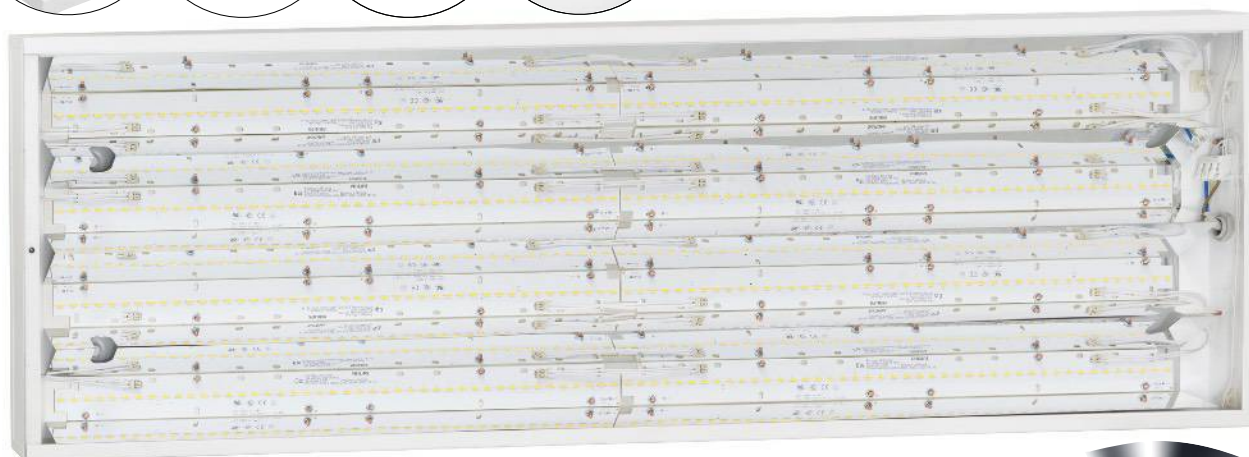
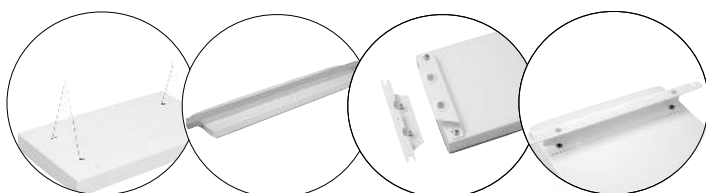
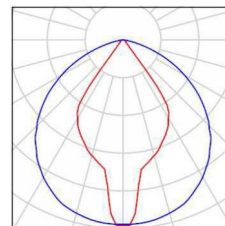
Models: EC-EN4/4L/4400, EC-EN4/4L/8000

ECOLINE
LED EC

LOW-COST OPTION FOR WAREHOUSES

ECOLINE LED EC luminaire was designed specifically for the illumination of warehouse spaces. Cost-efficiency gains were obtained by cutting redundant functions and features. Warehouse illumination does not require IP65 rating, so they were reduced to IP40. A simplified structure still permits great thermal characteristics. ECOLINE LED EC can be used in temperatures up to + 50°C.

Good to know: ECOLINE LED EC was designed to give the optimal light for both the hallway and the shelving racks.



GENERAL TECHNICAL SPECIFICATIONS

Supply Voltage	220-240V AC
Supply Frequency	50-60 Hz
RFI Suppression	EN 55015 / CISPR 15
Immunity	EN 61547
Harmonics	EN 6100-3-2
Operating Temperature**	-35 - +50 °C
Storage Temperature	-40 - +60 °C
Housing material	0.8 mm powder coated steel
Enclosure Rating	IP40
Lid material	PMMA or Polycarbonate
Cable gland	PG 13.5 or STUCCHI (3-pole) fast plug optional
Protection class IEC	Safety class I

* in preparation

** Only with Xtr drivers. Otherwise from -20 to +35 °C. Operating Temperature limitations for EM options see in next page.

Number of LED modules	8
Lamp family code	PHILIPS Fortimo
Light colour K	3000, 4000 or 5000
Colour Rendering Index	> 80 or > 90
Min useful life	See next page
Driver /power unit/	PHILIPS XITANIUM
Flickering	IEEE 1789
Power factor (full load at 230V)	> 0.90
Dimmable	Optional
Emergency pack	Optional
System Wattage	up to 255W
LED module efficiency (max)	up to 171 lm/W
Lumen output of LED modules (max)	up to 39.486 lm

GENERAL TECHNICAL SPECIFICATIONS

EAN	Ref.	Wattage	LED module efficiency (max)	Lumen output of LED modules (max)	Min useful life L80B50	Available Options	Dimensions (mm)*			Optimum Working Height
							L	W	H	
4772049000148	EC-EN4/4L/4400	up to 134W	171 lm/W	21.766 lm	72.000 hours at Ta 25C ⁰	SP/EM/S/P	1205	385	75	2 - 10 m
					58.000 hours at Ta 35C ⁰					
4772049000155	EC-EN4/4L/8000	up to 255W	159 lm/W	39.486 lm	100.000 hours at Ta 25C ⁰					2 - 15 m
					94.000 hours at Ta 35C ⁰					

* without sensor

EAN	Additional options	Ref.
Multiple selection	PIR Sensor (-10/-30 - +35 °C)	S
Multiple selection	PIR and Light Sensor (-10/-30 - +35 °C)	P
4772049001008	Emergency Pack 3h (1h optional)	EM
4772049001619	Protective Sport Cage	SP

* There is a possibility to order ready-to-use luminaries with desired length of cable installed.

EMERGENCY PACKS

TrustSight LED 40-80mA 2.6W (1 battery)	1 hour
TrustSight LED 40-80mA 2.6W (2 batteries)	3 hours
Operating Temperature	0 - +35 °C



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Liepu str. 15, Linksmakalnis, Kaunas distr. 53290, Lithuania
E: info@ecolight.lt T: +370 5 2328207 F: +370 5 2784262
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THE ENERGY-EFFICIENT LOW BAY LED LUMINAIRE

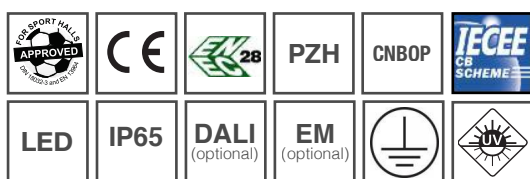
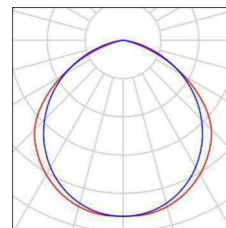
Models: LP-EN2/2SQ/2500, LP-EN4/2SQ/2500

SAULA LED LP

LED LIGHTING SOLUTION FOR SUSPENDED CEILINGS

SAULA LED LP is a system for suspended ceilings type Armstrong. Application areas include hospitals, healthcare premises, laboratories, etc. The system is designed to be used in heights ranging from 2 to 5 meters.

Good to know: SAULA LED LP is an IP65 luminaire.



GENERAL TECHNICAL SPECIFICATIONS			
Supply Voltage	220-240V AC	Number of LED modules	2
Supply Frequency	50-60 Hz	Lamp family code	PHILIPS Fortimo LED
RFI Suppression	EN 55015 / CISPR 15	Light colour K	3000, 4000 or 6500
Immunity	EN 61547	Colour Rendering Index	> 80
Harmonics	EN 6100-3-2	Min useful life	See next page
Operating Temperature*	-35 - +50 °C	Driver /power unit/	PHILIPS XITANIUM
Storage Temperature	-40 - +60 °C	Flickering	IEEE 1789
Housing material	0.8 mm powder coated steel	Power factor (full load at 230V)	> 0.90
Enclosure Rating	IP65	Dimmable	Optional
Lid material	Opal PMMA or Opal Polycarbonate	Emergency pack	Optional
Cable gland	PG 13.5 or STUCCHI (3-pole) fast plug optional	System Wattage	up to 70W
Protection class IEC	Safety class I	LED module efficiency (max)	up to 168 lm/W
		Lumen output of LED modules (max)	up to 10.146 lm

* Only with Xtr drivers. Otherwise from -20 to +50 °C. Operating Temperature limitations for EM options see in next page.

GENERAL TECHNICAL SPECIFICATIONS

EAN	Ref.	Wattage	LED module efficiency (max)	Lumen output of LED modules (max)	Min useful life L80B50	Available Options	Dimensions (mm)			Optimum Working Height
							L	W	H	
4772049000568	LP-EN2/2SQ/2500	up to 35W	168 lm/W	5.867 lm	63.000 hours at Ta 25C ⁰	P/S/EM	595	595	60	2 - 5 m
					54.000 hours at Ta 50C ⁰					
4772049000575	LP-EN2/2SQ/2500	up to 55W	159 lm/W	8.737 lm	63.000 hours at Ta 25C ⁰					
					54.000 hours at Ta 50C ⁰					
4772049000575	LP-EN2/2SQ/2500	up to 70W	155 lm/W	10.146 lm	63.000 hours at Ta 25C ⁰					
					54.000 hours at Ta 50C ⁰					
4772049000582	LP-EN4/2SQ/2500	up to 35W	168 lm/W	5.867 lm	63.000 hours at Ta 25C ⁰		1195	295	60	2 - 5 m
					54.000 hours at Ta 50C ⁰					
4772049000599	LP-EN4/2SQ/2500	up to 55W	159 lm/W	8.737 lm	63.000 hours at Ta 25C ⁰					
					54.000 hours at Ta 50C ⁰					
4772049000599	LP-EN4/2SQ/2500	up to 70W	155 lm/W	10.146 lm	63.000 hours at Ta 25C ⁰					
					54.000 hours at Ta 50C ⁰					

EAN	Additional options	Ref.
Multiple selection	PIR Sensor (-10/-30 - +35 °C)	S
Multiple selection	PIR and Light Sensor (-10/-30 - +35 °C)	P
4772049001008	Emergency Pack 3h (1h optional)	EM

There is a possibility to order ready-to-use luminaires with desired length of cable installed.



EMERGENCY PACKS

TrustSight LED 40-80mA 2.6W (1 battery)	1 hour
TrustSight LED 40-80mA 2.6W (2 batteries)	3 hours
Operating Temperature	0 - +40 °C



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Liepu str. 15, Linksmakalnis, Kaunas distr. 53290, Lithuania
E: info@ecolight.lt T: +370 5 2328207 F: +370 5 2784262
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SKY PANEL SL-PAN

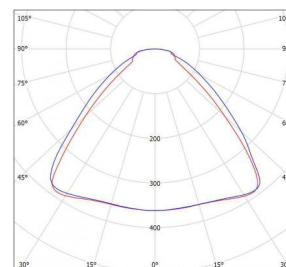
THE ENERGY-EFFICIENT LOW BAY LED LUMINAIRE

Model: SL-PAN PRO

THE SMART CHOICE FOR OFFICE APPLICATIONS

SKY PANEL LED is a premium lighting system meeting the highest standards of functionality and safety. SKY PANEL LED is powered by Philips Xitanium drivers. This means that the system has a great power factor and is flicker free. What's more, SKY PANEL LED is a low glare (log UGR) luminaire.

Good to know: SKY PANEL LED is being certified for ENEC.



CE	PZH*	EN*	CNBOP*
LED	IP40	DALI (optional)	EM (optional)

GENERAL TECHNICAL SPECIFICATIONS

Supply Voltage	220-240V AC
Supply Frequency	50-60 Hz
RFI Suppression	EN 55015 / CISPR 15
Immunity	EN 61547
Harmonics	EN 6100-3-2
Operating Temperature	-25 - +40 °C
Storage Temperature	-40 - +60 °C
Housing Material	Aluminum
Diffuser	Opal or micro-prismatic
Protection against mechanical impact	IK05

* in preparation

Beam Spread	90 deg.
UGR	<19
Light colour K	3000, 4000, 5000 or 6000
Colour Rendering Index	> 80
Min Useful Life L70 B50	50.000 h
Driver /power unit/	Philips Xitanium
Flickering	IEEE 1789
Power Factor (full load at 230V)	> 0.90
Dimmable	Optional
Emergency Pack	Optional
System Wattage	up to 70W
Whole System Efficiency	up to 110 lm/W (up to 140 lm/W with micro-prismatic diffuser)

GENERAL TECHNICAL SPECIFICATIONS

EAN	Model	Part Number	Power	Color	Lumens	Dimensions (mm)	Weight
4772049000629	600 x 600 LED Panel	SL-PAN-35W-WW-AN2	20W	3000K	3500	595 x 595 x 12	3,6 kg
		SL-PAN-35W-NW-AN2		4000K	3650		
		SL-PAN-35W-DW-AN2		5000K	3700		
		SL-PAN-35W-PW-AN2		6000K	3850		
		SL-PAN-40W-WW-AN2	40W	3000K	4000		
		SL-PAN-40W-NW-AN2		4000K	4200		
		SL-PAN-40W-DW-AN2		5000K	4300		
		SL-PAN-40W-PW-AN2		6000K	4400		
		SL-PAN-50W-WW-AN2	50W	3000K	5000		
		SL-PAN-50W-NW-AN2		4000K	5250		
		SL-PAN-50W-DW-AN2		5000K	5350		
		SL-PAN-50W-PW-AN2		6000K	5500		
4772049001961	620 x 620 LED Panel	SL-PAN-35W-WW-LS2	35W	3000K	3500	622 x 622 x 12	3,8 kg
		SL-PAN-35W-NW-LS2		4000K	3650		
		SL-PAN-35W-DW-LS2		5000K	3750		
		SL-PAN-35W-PW-LS2		6000K	3850		
		SL-PAN-40W-WW-LS2	40W	3000K	4000		
		SL-PAN-40W-NW-LS2		4000K	4200		
		SL-PAN-40W-DW-LS2		5000K	4300		
		SL-PAN-40W-PW-LS2		6000K	4400		
		SL-PAN-50W-WW-LS2	50W	3000K	5000		
		SL-PAN-50W-NW-LS2		4000K	5250		
		SL-PAN-50W-DW-LS2		5000K	5350		
		SL-PAN-50W-PW-LS2		6000K	5500		
4772049000643	300 x 1200 LED Panel	SL-PAN-45W-WW-AN2	45W	3000K	4500	295 x 1195 x 12	3,7 kg
		SL-PAN-45W-NW-AN2		4000K	4700		
		SL-PAN-45W-DW-AN2		5000K	4800		
		SL-PAN-45W-PW-AN2		6000K	4950		
4772049001978	600 x 1200 LED Panel	SL-PAN-45W-WW-BN2	45W	3000K	4500	595 x 1195 x 12	6,2 kg
		SL-PAN-45W-NW-BN2		4000K	4700		
		SL-PAN-45W-DW-BN2		5000K	4800		
		SL-PAN-45W-PW-BN2		6000K	4950		
		SL-PAN-70W-WW-BN2	70W	3000K	7000		
		SL-PAN-70W-NW-BN2		4000K	7350		
		SL-PAN-70W-DW-BN2		5000K	7450		
		SL-PAN-70W-PW-BN2		6000K	7700		

Type reference product key code: **SL-PAN-aW-bW-c-d**





a = means rating power (35, 40, 45, 50 or 70)

b = means colour temperature (W = 3000 ±250K; N = 4000 ±250K; D = 5000 ±300K; P = 6000 ±350K)

c = means profile type (AN, BN, AN2, BN2, LN2, LS2)

d = optional version (BK - Black, WH - White, SI - Silver, MP - Micro-prismatic, D - DALI)

OPTIONAL MOUNTING SOLUTIONS

EAN	Reference	Description	Picture
4772049000711	99008408	Adjustable stainless steel wiring suspension kit for Sky Panels	
4772049000742	99008409	Ceiling mounting bracket kit for 600 x 600 Sky Panels	
4772049000728	99008410	Ceiling mounting bracket kit for 300 x 1200 Sky Panels	
4772049001985	99008412	Spring holder set for recessed Sky Panels	



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THE ENERGY-EFFICIENT LOW BAY LED LUMINAIRE ELUMA

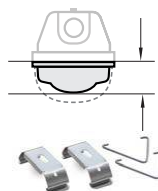
Models: ZL-EN4/1L/4400, ZL-EN4/1L/8000,
ZL-EN5/1L/5500, ZL-EN5/1L/10000

ELUMA LED ZL

AS POWERFUL AND EFFICIENT AS LOW BAYS CAN GET!

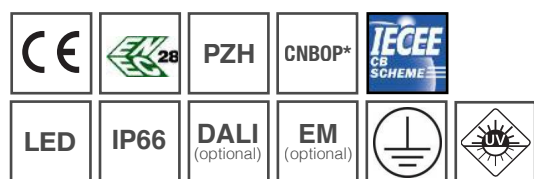
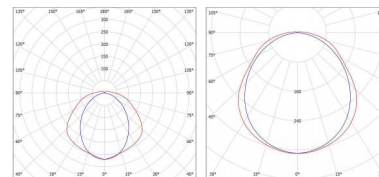
ELUMA LED ZL is an ultra-efficient low bay LED luminaire. Manufactured from EU-made parts, this extraordinary product sets an industry standard with a system power up to 75W. The system features outstanding thermal characteristics, and can be utilised in temperatures up to + 50°C. Different housing materials and diffuser options are available depending on application purposes. The combination of polycarbonate housing and frosted PC diffuser is ideal for parking lots and other public spaces (protection level IK08). The combination of GRP (glass fibre reinforced polyester) housing and PMMA (Acrylic) diffuser is ideal for industries dealing with chemical substances. ELUMA LED ZL is UV-resistant.

Good to know: If equipped with a SLIM diffuser, ELUMA LED ZL can be mounted as high as 8 meters off the ground.



Optional slim LED diffuser provides superb light performance.

Fixing brackets and suspension triangle included.



GENERAL TECHNICAL SPECIFICATIONS		Number of LED modules	1-3
Supply Voltage	220-240V AC	Lamp Family Code	Philips Fortimo
Supply Frequency	50-60 Hz	Light colour K	3000, 4000 or 5000
RFI Suppression	EN 55015 / CISPR 15	Colour Rendering Index	> 80 or > 90
Immunity	EN 61547	Min Useful Life	See next page
Harmonics	EN 6100-3-2	Driver /power unit/	Philips Xitanium
Operating Temperature	-35 - +50 °C	Flickering	IEEE 1789
Storage Temperature	-40 - +60 °C	Power Factor (full load at 230V)	> 0.90
Housing Material	PC (Glass fibre reinforced polyester optional)	Dimmable	Optional
Diffuser	Frosted PC (frosted PMMA optional)	Emergency Pack	Optional
Gear Tray	Pre-painted steal 0.5 mm	System Wattage	up to 75 W
Water and Dust Resistance	IP66	LED module efficiency (max)	up to 173 lm/W
Impact Resistance	IK05 or IK08	Lumen output of LED modules (max)	up to 12.019 lm

* in preparation

** Only with Xtr drivers. Otherwise from -20 to +40 °C. Operating Temperature limitations for EM/P/S options see in next page.

GENERAL TECHNICAL SPECIFICATIONS

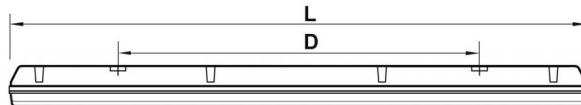
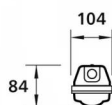
EAN	Ref.	Wattage	LED module efficiency (max)	Lumen output of LED modules (max)	Min useful life L80B50	Available Options	Dimensions (mm)*		Optimum Working Height
							L	D	
4772049000452	ZL-EN2/1L/2200	up to 15W	173 lm/W	2.582 lm	55.000 hours at Ta 25C° 35.000 hours at Ta 50C°	M/P/S	660	390	2 - 5 m
4772049000469	ZL-EN2/1L/4000	up to 25W	166 lm/W	4.054 lm	94.000 hours at Ta 25C° 41.000 hours at Ta 50C°	M/P/S			
4772049000476	ZL-EN4/1L/4400	up to 35W	168 lm/W	5.877 lm	55.000 hours at Ta 25C° 35.000 hours at Ta 50C°	EM/M/P/S	1277	800	2 - 8 m
4772049000483	ZL-EN4/1L/8000	up to 65W	159 lm/W	9.871 lm	94.000 hours at Ta 25C° 41.000 hours at Ta 50C°	EM/M/P/S			
4772049000490	ZL-EN5/1L/5500	up to 45W	167 lm/W	7.514 lm	55.000 hours at Ta 25C° 35.000 hours at Ta 50C°	EM/M/P/S	1573	1100	2 - 8 m
4772049000506	ZL-EN5/1L/10000	up to 65W	168 lm/W	10.963 lm	94.000 hours at Ta 25C° 41.000 hours at Ta 50C°	EM/M/P/S			
4772049000513	ZL-EN5/1L/10000	up to 75W	160 lm/W	12.019 lm	94.000 hours at Ta 25C° 41.000 hours at Ta 50C°	M/P/S			

* without sensor and standard diffuser

EAN	Additional options	Ref.
4772049001794	Microwave (-20 - +40 °C)	M
Multiple selection	PIR Sensor (-10/-30 - +35 °C)	P
Multiple selection	PIR and Light Sensor (-10/-30 - +35 °C)	S
4772049001039	Emergency Pack 3h (1h optional)*	EM

* Emergency pack not available with 75W model.

** There is a possibility to order ready-to-use luminaires with desired length of cable installed.



EMERGENCY PACKS

TrustSight LED 40-80mA 2.6W (1 battery)	1 hour
TrustSight LED 40-80mA 2.6W (2 batteries)	3 hours
Operating Temperature	0 - +30 °C



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ELEKTROS TAUPYMO SPRENDIMAI, UAB
Didlaukio str. 94-22, Vilnius 08332, Lithuania
Liepu str. 15, Linksmakalnis, Kaunas distr. 53290, Lithuania
E: info@ecolight.lt T: +370 5 2328207 F: +370 5 2784262
W: www.ecolight.lt, www.ecolight-lights.co.uk

THE ENERGY-EFFICIENT LOW BAY LED LUMINAIRE ELUMA

Models: ZL-EN4/1L/4400, ZL-EN5/1L/10000

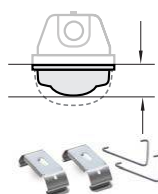
ELUMA

LED ZL (Lite)

HIGH QUALITY LOW COST SELECTION FOR LOW BAY LIGHTING!

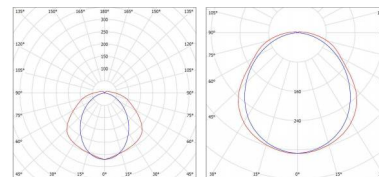
ELUMA LED ZL Lite version is a high quality and low cost low bay LED luminaire. With CertaFlux LLS EaseSelect driver-on-board technology, ELUMA LED ZL Lite version is an optimised solution that works as a 1:1 replacement for your old, less efficient 2x36W and 2x58W fluorescent lighting systems. The system features high thermal characteristics, and can be utilised in temperatures up to + 35°C. Different housing materials and diffuser options are available depending on application purposes. The combination of polycarbonate housing and frosted PC diffuser is ideal for parking lots and other public spaces (protection level IK08). The combination of GRP (glass fibre reinforced polyester) housing and PMMA (Acrylic) diffuser is ideal for industries dealing with chemical substances. ELUMA LED ZL Lite is UV-resistant.

Good to know: If equipped with a SLIM diffuser, ELUMA LED ZL Lite can be mounted as high as 8 meters off the ground.



Optional slim LED diffuser provides superb light performance.

Fixing brackets and suspension triangle included.



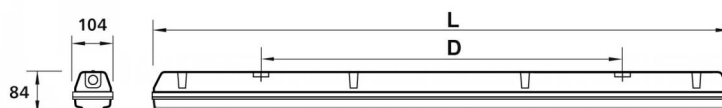
GENERAL TECHNICAL SPECIFICATIONS		
Supply Voltage	220-240V AC	Number of LED modules
Supply Frequency	50-60 Hz	1
RFI Suppression	EN 55015 / CISPR 15	Lamp Family Code
Immunity	EN 61547	CertaFlux LLS EaseSelect
Harmonics	EN 6100-3-2	Light colour K
Operating Temperature	-35 - +35 °C	4000
Storage Temperature	-40 - +60 °C	Colour Rendering Index
Housing Material	PC (Glass fibre reinforced polyester optional)	> 80
Diffuser	Frosted PC (frosted PMMA optional)	Min Useful Life
Gear Tray	Pre-painted steal 0.5 mm	See next page
Water and Dust Resistance	IP66	Driver /power unit/
Impact Resistance	IK05 or IK08	CertaFlux driver-on-board
* in preparation		Color consistency
		4 SDCM
		Power Factor (full load at 230V)
		> 0.90
		Dimmable
		No
		Emergency Pack
		No
		System Wattage
		up to 50 W
		LED module efficiency (max)
		up to 135 lm/W
		Lumen output of LED modules (max)
		up to 6.750 lm

GENERAL TECHNICAL SPECIFICATIONS

EAN	Ref.	Wattage	LED module efficiency (max)	Lumen output of LED modules (max)	Min useful life L80B50	Available Options	Dimensions (mm)*		Optimum Working Height
							L	D	
4772049001817	ZL-EN4/1L/4400	33W	135 lm/W	4.500 lm	50.000 hours at Ta 25C ⁰	-	1277	800	2 - 5 m
					37.000 hours at Ta 50C ⁰				
4772049001824	ZL-EN5/1L/5500	50W	135 lm/W	6.750 lm	50.000 hours at Ta 25C ⁰	-	1573	1100	2 - 5 m
					37.000 hours at Ta 50C ⁰				

* without standard diffuser

** There is a possibility to order ready-to-use luminaires with desired length of cable installed.



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Didlaukio str. 94-22, Vilnius 08332, Lithuania
Liepu str. 15, Linksmakalnis, Kaunas distr. 53290, Lithuania
E: info@ecolight.lt T: +370 5 2328207 F: +370 5 2784262
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THE ENERGY-EFFICIENT LOW BAY LED LUMINAIRE ELUMA

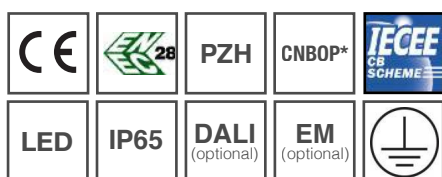
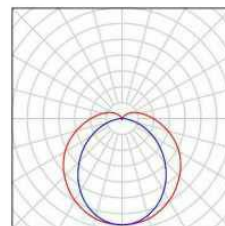
Models: PD-EN4/1L/4400, PD-EN4/1L/8000,
PD-EN5/1L/5500, PD-EN5/1L/10000

ELUMA LED PD

FOR A SMOOTH AND EVEN LIGHT

Utilising cutting-edge LED technologies, ELUMA LED PD features authentic 'German' design and unique light characteristics. A special diffuser produces a pleasant effect of a smooth, even light. Different housing materials and diffuser options are available depending on application purposes. The combination of GRP (glass fibre reinforced polyester) housing and polycarbonate diffuser is ideal for parking lots and other public spaces (Protection level IK07). The combination of GRP housing and PMMA (Acrylic) diffuser is ideal for industries dealing with chemical substances. ELUMA LED PD is UV-resistant. The system features outstanding thermal characteristics, and can be utilised in temperatures up to + 50°C

Good to know: The power of this system is limited to 65W.



GENERAL TECHNICAL SPECIFICATIONS

Supply Voltage	220-240V AC
Supply Frequency	50-60 Hz
RFI Suppression	EN 55015 / CISPR 15
Immunity	EN 61547
Harmonics	EN 6100-3-2
Operating Temperature	-35 - +50 °C
Storage Temperature	-40 - +60 °C
Housing Material	Glass fibre reinforced flame-resistant polyester
Diffuser	PC (Polycarbonate)
Gear Tray	Pre-painted steal 0.5 mm
Water and Dust Resistance	IP65
Impact Resistance	IK05 or IK07

Number of LED modules	1-3
Lamp Family Code	Philips Fortimo
Light colour K	3000, 4000 or 5000
Colour Rendering Index	> 80 or > 90
Min Useful Life	See next page
Driver /power unit/	Philips Xitanium
Flickering	IEEE 1789
Power Factor (full load at 230V)	> 0.90
Dimmable	Optional
Emergency Pack	Optional
System Wattage	up to 65 W
LED module efficiency (max)	up to 168 lm/W
Lumen output of LED modules (max)	up to 10.963 lm

* in preparation

** Only with Xtr drivers. Otherwise from -20 to +40 °C. Operating Temperature limitations for EM/P/S options see in next page.

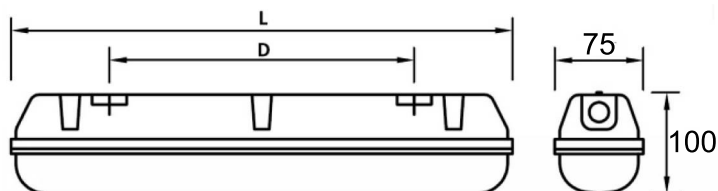
GENERAL TECHNICAL SPECIFICATIONS

EAN	Ref.	Wattage	LED module efficiency (max)	Lumen output of LED modules (max)	Min useful life L80B50	Available Options	Dimensions (mm)*		Optimum Working Height
							L	D	
4772049000520	PD-EN4/1L/4400	up to 35W	168 lm/W	5.877 lm	55.000 hours at Ta 25C ⁰	EM/M/P/S	1210	880	2 - 5 m
					35.000 hours at Ta 50C ⁰				
4772049000537	PD-EN4/1L/8000	up to 65W	159 lm/W	9.871 lm	94.000 hours at Ta 25C ⁰	EM/M/P/S			2 - 8 m
					41.000 hours at Ta 50C ⁰				
4772049000544	PD-EN5/1L/5500	up to 45W	167 lm/W	7.514 lm	55.000 hours at Ta 25C ⁰	EM/M/P/S	1510	1180	2 - 5 m
					35.000 hours at Ta 50C ⁰				
4772049000551	PD-EN5/1L/10000	up to 65W	168 lm/W	10.963 lm	94.000 hours at Ta 25C ⁰	EM/M/P/S			2 - 8 m
					41.000 hours at Ta 50C ⁰				

* without sensor

EAN	Additional options	Ref.
Multiple selection	PIR Sensor (-10/-30 - +35 °C)	P
Multiple selection	PIR and Light Sensor (-10/-30 - +35 °C)	S
4772049001039	Emergency Pack 3h (1h optional)	EM

* There is a possibility to order ready-to-use luminaries with desired length of cable installed.



EMERGENCY PACKS

TrustSight LED 40-80mA 2.6W (1 battery)	1 hour
TrustSight LED 40-80mA 2.6W (2 batteries)	3 hours
Operating Temperature	0 - +30 °C



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Didlaukio str. 94-22, Vilnius 08332, Lithuania
Liepu str. 15, Linksmakalnis, Kaunas distr. 53290, Lithuania
E: info@ecolight.lt T: +370 5 2328207 F: +370 5 2784262
W: www.ecolight.lt, www.ecolight-lights.co.uk

THE ENERGY-EFFICIENT LOW BAY LED LUMINAIRE ELUMA

Models: LE-EN4/1L/4400, LE-EN4/1L/8000,
LE-EN5/1L/5500, LE-EN5/1L/10000

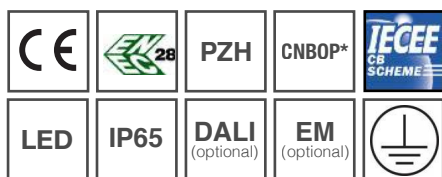
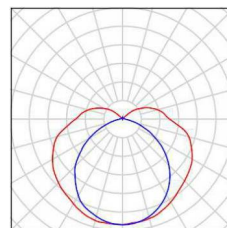
ELUMA
LED LE

A PERFECT FIT FOR PARKING LOTS

The key feature of this standard-setting low bay luminaire is a pleasant and cosy light. This light effect is created by a special matte diffuser. ELUMA LED LE has an outstanding system power of 75W. The system features impressive thermal characteristics, and can be utilised in temperatures up to + 50°C.

Polycarbonate housing, soft diffuser and PC cover make this system an optimal choice for the illumination of enclosed parking lots, garages, etc. (protection level IK08).

Good to know: ELUMA LED LE is not resistant to UV rays and, therefore, should not be employed in facilities with access to daylight.



GENERAL TECHNICAL SPECIFICATIONS	
Supply Voltage	220-240V AC
Supply Frequency	50-60 Hz
RFI Suppression	EN 55015 / CISPR 15
Immunity	EN 61547
Harmonics	EN 6100-3-2
Operating Temperature	-35 - +50 °C
Storage Temperature	-40 - +60 °C
Housing Material	ABS
Diffuser	PC or PS
Gear Tray	Pre-painted steal 0.5 mm
Water and Dust Resistance	IP65
Impact Resistance	IK08

Number of LED modules	1-3
Lamp Family Code	Philips Fortimo
Light colour K	3000, 4000 or 5000
Colour Rendering Index	> 80 or > 90
Min Useful Life	See next page
Driver /power unit/	Philips Xitanium
Flickering	IEEE 1789
Power Factor (full load at 230V)	> 0.90
Dimmable	Optional
Emergency Pack	Optional
System Wattage	up to 75 W
LED module efficiency (max)	up to 168 lm/W
Lumen output of LED modules (max)	up to 12.019 lm

* in preparation

** Only with Xtr drivers. Otherwise from -20 to +40 °C. Operating Temperature limitations for EM/P/S options see in next page.

GENERAL TECHNICAL SPECIFICATIONS

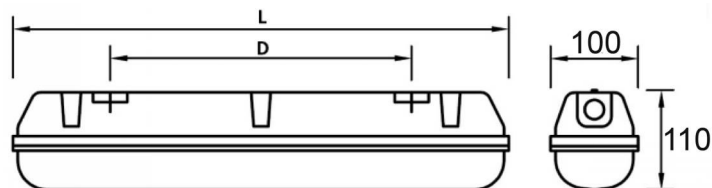
EAN	Ref.	Wattage	LED module efficiency (max)	Lumen output of LED modules (max)	Min useful life L80B50	Available Options	Dimensions (mm)*		Optimum Working Height
							L	D	
4772049000384	LE-EN2/1L/2200	up to 15W	173 lm/W	2.582 lm	55.000 hours at Ta 25C°	M/P/S	670		
					35.000 hours at Ta 50C°				
4772049000391	LE-EN2/1L/4000	up to 25W	166 lm/W	4.054 lm	94.000 hours at Ta 25C°	M/P/S			2 - 5 m
					41.000 hours at Ta 50C°				
4772049000407	LE-EN4/1L/4400	up to 35W	168 lm/W	5.877 lm	55.000 hours at Ta 25C°	EM/M/P/S	1270	835	
					35.000 hours at Ta 50C°				
4772049000414	LE-EN4/1L/8000	up to 65W	159 lm/W	9.871 lm	94.000 hours at Ta 25C°	EM/M/P/S			2 - 8 m
					41.000 hours at Ta 50C°				
4772049000421	LE-EN5/1L/5500	up to 45W	167 lm/W	7.514 lm	55.000 hours at Ta 25C°	EM/M/P/S			2 - 5 m
					35.000 hours at Ta 50C°				
4772049000438	LE-EN5/1L/10000	up to 65W	168 lm/W	10.963 lm	94.000 hours at Ta 25C°	EM/M/P/S	1570	955	
					41.000 hours at Ta 50C°				
4772049000445	LE-EN5/1L/10000	up to 75W	160 lm/W	12.019 lm	94.000 hours at Ta 25C°	EM/M/P/S			2 - 8 m
					41.000 hours at Ta 50C°				

* without sensor

EAN	Additional options	Ref.
4772049001794	Microwave (-20 - +40 °C)	M
Multiple selection	PIR Sensor (-10/-30 - +35 °C)	P
Multiple selection	PIR and Light Sensor (-10/-30 - +35 °C)	S
4772049001039	Emergency Pack 3h (1h optional)*	EM

* Emergency pack not available with 75W model.

** There is a possibility to order ready-to-use luminaires with desired length of cable installed.



EMERGENCY PACKS

TrustSight LED 40-80mA 2.6W (1 battery)	1 hour
TrustSight LED 40-80mA 2.6W (2 batteries)	3 hours
Operating Temperature	0 - +30 °C



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Didlaukio str. 94-22, Vilnius 08332, Lithuania
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E: info@ecolight.lt T: +370 5 2328207 F: +370 5 2784262
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THE ENERGY-EFFICIENT LED STREET LIGHT

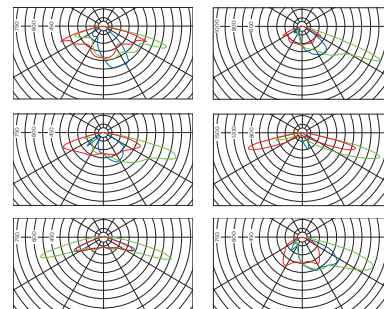
Model: ST-1M/6000

RADIUS LED ST

ROAD LIGHTING AT ITS BEST

RADIUS LED ST street light showcases elegant compact design, and features state-of-the-art technologies from Philips. The system is equipped with Fortimo Fast Flex modules and Philips Xitanium Outdoor drivers. Fast Flex modules have a minimum lifetime of 120.000 hours. Other key features include a smart overhear prevention system, an efficient light angle control system, and a Dynadimmer function which allows energy-saving programmability. The system has great thermal characteristics, and can be utilised in temperatures ranging from – 40°C to + 50°C. To match the needs of different applications, RADIUS LED ST has six different optics options available.

Good to know: The system can be mounted on horizontal and vertical poles.



CityTouch
Ready



GENERAL TECHNICAL SPECIFICATIONS

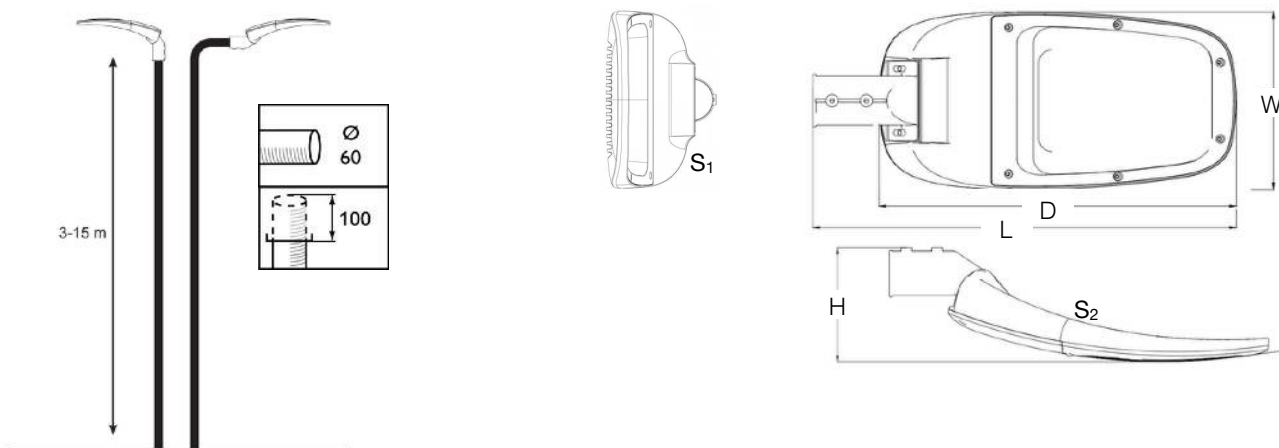
Supply Voltage	220-240V AC
Supply Frequency	50-60 Hz
RFI Suppression	EN 55015 / CISPR 15
Immunity	EN 61547
Harmonics	EN 6100-3-2
Operating Temperature**	-40 - +50 °C
Storage Temperature	-40 - +60 °C
Housing material	Aluminum
Enclosure Rating	IP66
Lid material	Tempered Glass
Mech. impact protection	IK09
Protection class IEC	Safety class I

Number of LED modules	1
Lamp family code	Fortimo FastFlex
Light colour K	3000, 4000 or 5700
Colour Rendering Index	> 70 or > 80
Min useful life	See next page
Driver /power unit/	PHILIPS XITANIUM
Flickering	IEEE 1789
Power factor (full load at 230V)	> 0.95
Control method	1- 10V, Dynadimmer LITE (DALI optional)
Dimming range	7 ...100 %
System Wattage	up to 50 W
LED module efficiency (max)	up to 160 lm/W
Lumen output of LED modules (max)	up to 6.223 lm

* in preparation

GENERAL TECHNICAL SPECIFICATIONS

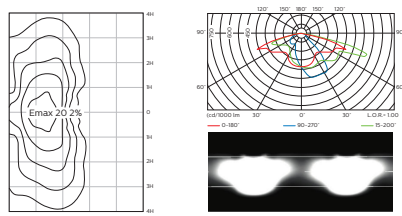
EAN	Ref.	Wattage	LED module efficiency (max)	Lumen output of LED modules (max)	Min useful life L80B50	Dimensions (mm)				Area (mm ²)	
						D	L	W	H	S ₁	S ₂
4772049000971	ST-1M/6000	20W	160 lm/W	3.209 lm	120.000 hours at Ta 25C ⁰	520	616	259	186	0,0306	0,0373
					110.000 hours at Ta 45C ⁰						
		30W	146 lm/W	4.377 lm	120.000 hours at Ta 25C ⁰						
					110.000 hours at Ta 45C ⁰						
		40W	134 lm/W	5.382 lm	110.000 hours at Ta 25C ⁰						
					90.000 hours at Ta 45C ⁰						
		50W	124 lm/W	6.223 lm	90.000 hours at Ta 25C ⁰						
					70.000 hours at Ta 45C ⁰						



AVAILABLE OPTICS

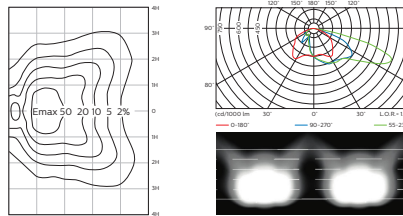
FastFlex lens 2x8/II-X Gen2

Designed for narrow roads and urban street lighting.



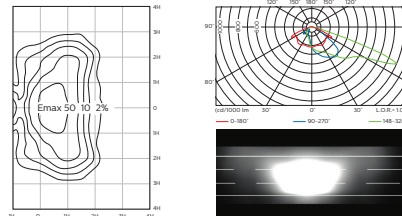
FastFlex lens 2x8/IV-X Gen2

Designed for wide roads and asymmetrical floodlighting.



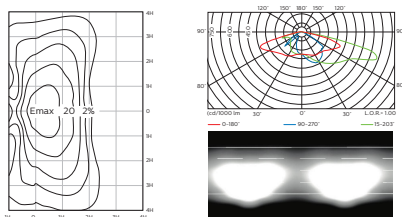
FastFlex lens 2x8/II-X WTR Gen2

Designed for wet road lighting.



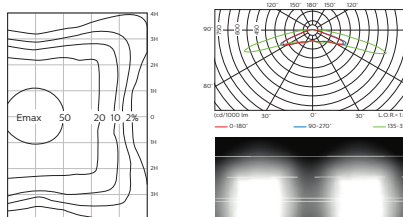
FastFlex lens 2x8/III-X Gen2

Designed for roads of medium width and urban street lighting.



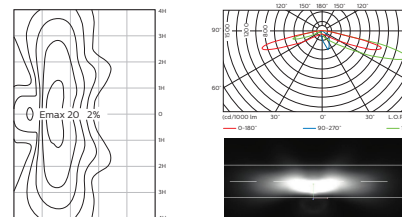
FastFlex lens 2x8/V Gen2

Designed for symmetrical lighting, e.g. parking lots, petrol stations.



FastFlex lens 2x4/SW-X Gen2

Designed for Pedestrian Road and Bicycle lighting.



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Liepu str. 15, Linksmakalnis, Kaunas distr. 53290, Lithuania
E: info@ecolight.lt T: +370 5 2328207 F: +370 5 2784262
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THE ENERGY-EFFICIENT LED STREET LIGHT

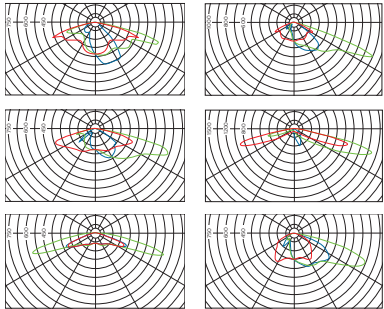
Model: ST-2M/6000

RADIUS
LED ST

ROAD LIGHTING AT ITS BEST

RADIUS LED ST street light showcases elegant compact design, and features state-of-the-art technologies from Philips. The system is equipped with Fortimo Fast Flex modules and Philips Xitanium Outdoor drivers. Fast Flex modules have a minimum lifetime of 120.000 hours. Other key features include a smart overhear prevention system, an efficient light angle control system, and a Dynadimmer function which allows energy-saving programmability. The system has great thermal characteristics, and can be utilised in temperatures ranging from – 40°C to + 50°C. To match the needs of different applications, RADIUS LED ST has six different optics options available.

Good to know: The system can be mounted on horizontal and vertical poles.



CityTouch
Ready

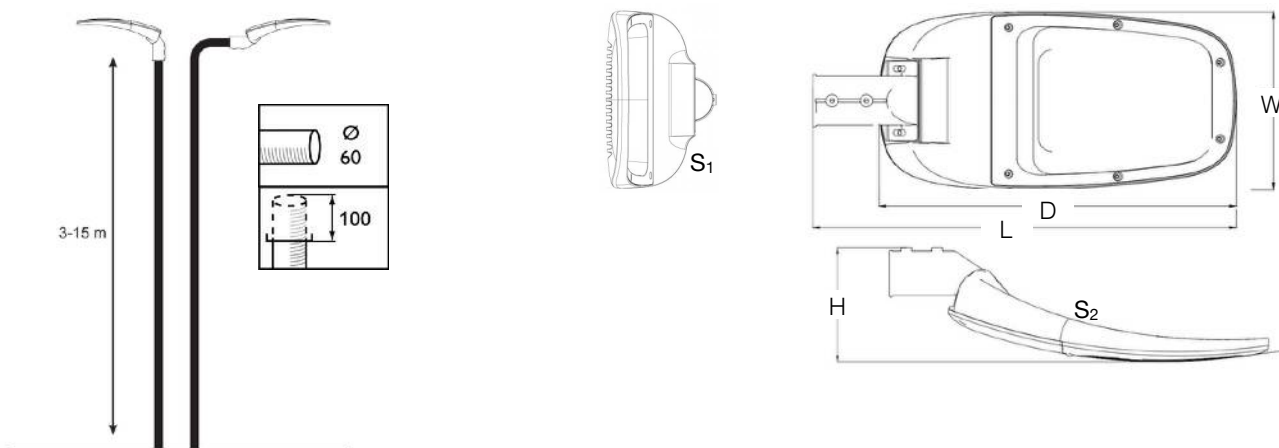


GENERAL TECHNICAL SPECIFICATIONS			
Supply Voltage	220-240V AC	Number of LED modules	2
Supply Frequency	50-60 Hz	Lamp family code	Fortimo FastFlex
RFI Suppression	EN 55015 / CISPR 15	Light colour K	3000, 4000 or 5700
Immunity	EN 61547	Colour Rendering Index	> 70 or > 80
Harmonics	EN 6100-3-2	Min useful life	See next page
Operating Temperature**	-40 - +50 °C	Driver /power unit/	PHILIPS XITANIUM
Storage Temperature	-40 - +60 °C	Flickering	IEEE 1789
Housing material	Aluminum	Power factor (full load at 230V)	> 0.95
Enclosure Rating	IP66	Control method	1- 10V, Dynadimmer LITE (DALI optional)
Lid material	Tempered Glass	Dimming range	7 ...100 %
Mech. impact protection	IK09	System Wattage	up to 100 W
Protection class IEC	Safety class I	LED module efficiency (max)	up to 160 lm/W
		Lumen output of LED modules (max)	up to 12.446 lm

* in preparation

GENERAL TECHNICAL SPECIFICATIONS

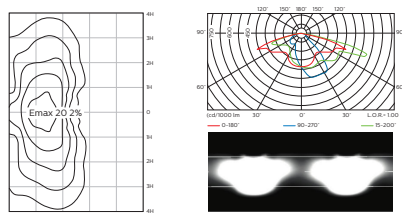
EAN	Ref.	Wattage	LED module efficiency (max)	Lumen output of LED modules (max)	Min useful life L80B50	Dimensions (mm)				Area (mm ²)	
						D	L	W	H	S ₁	S ₂
4772049000988	ST-2M/6000	40W	160 lm/W	6.418 lm	120.000 hours at Ta 25C°	580	676	303	186	0,0415	0,0394
					110.000 hours at Ta 45C°						
		60W	146 lm/W	8.754 lm	120.000 hours at Ta 25C°						
					110.000 hours at Ta 45C°						
		80W	134 lm/W	10.764 lm	110.000 hours at Ta 25C°						
					90.000 hours at Ta 45C°						
		100W	124 lm/W	12.446 lm	90.000 hours at Ta 25C°						
					70.000 hours at Ta 45C°						



AVAILABLE OPTICS

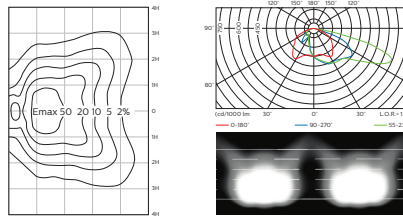
FastFlex lens 2x8/II-X Gen2

Designed for narrow roads and urban street lighting.



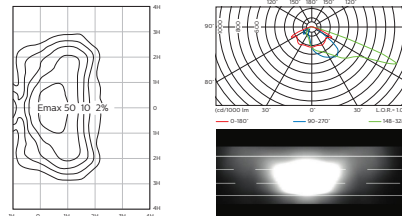
FastFlex lens 2x8/IV-X Gen2

Designed for wide roads and asymmetrical floodlighting.



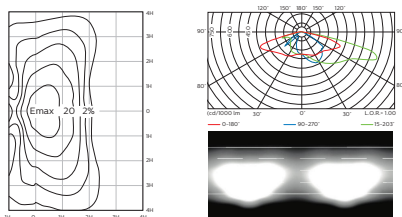
FastFlex lens 2x8/II-X WTR Gen2

Designed for wet road lighting.



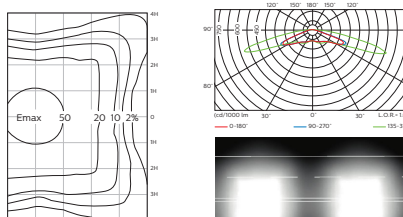
FastFlex lens 2x8/III-X Gen2

Designed for roads of medium width and urban street lighting.



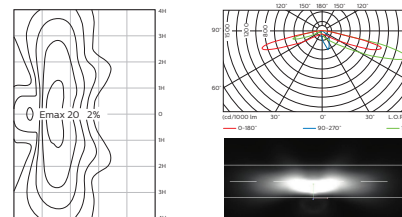
FastFlex lens 2x8/V Gen2

Designed for symmetrical lighting, e.g. parking lots, petrol stations.



FastFlex lens 2x4/SW-X Gen2

Designed for Pedestrian Road and Bicycle lighting.



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Didlaukio str. 94-22, Vilnius 08332, Lithuania
Liepu str. 15, Linksmakalnis, Kaunas distr. 53290, Lithuania
E: info@ecolight.lt T: +370 5 2328207 F: +370 5 2784262
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THE ENERGY-EFFICIENT LED STREET LIGHT

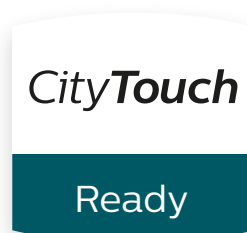
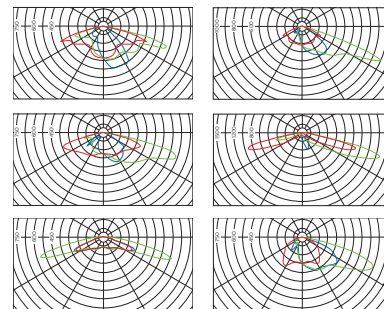
Model: ST-3M/6000

RADIUS LED ST

ROAD LIGHTING AT ITS BEST

RADIUS LED ST street light showcases elegant compact design, and features state-of-the-art technologies from Philips. The system is equipped with Fortimo Fast Flex modules and Philips Xitanium Outdoor drivers. Fast Flex modules have a minimum lifetime of 120.000 hours. Other key features include a smart overhear prevention system, an efficient light angle control system, and a Dynadimmer function which allows energy-saving programmability. The system has great thermal characteristics, and can be utilised in temperatures ranging from – 40°C to + 50°C. To match the needs of different applications, RADIUS LED ST has six different optics options available.

Good to know: The system can be mounted on horizontal and vertical poles.



GENERAL TECHNICAL SPECIFICATIONS

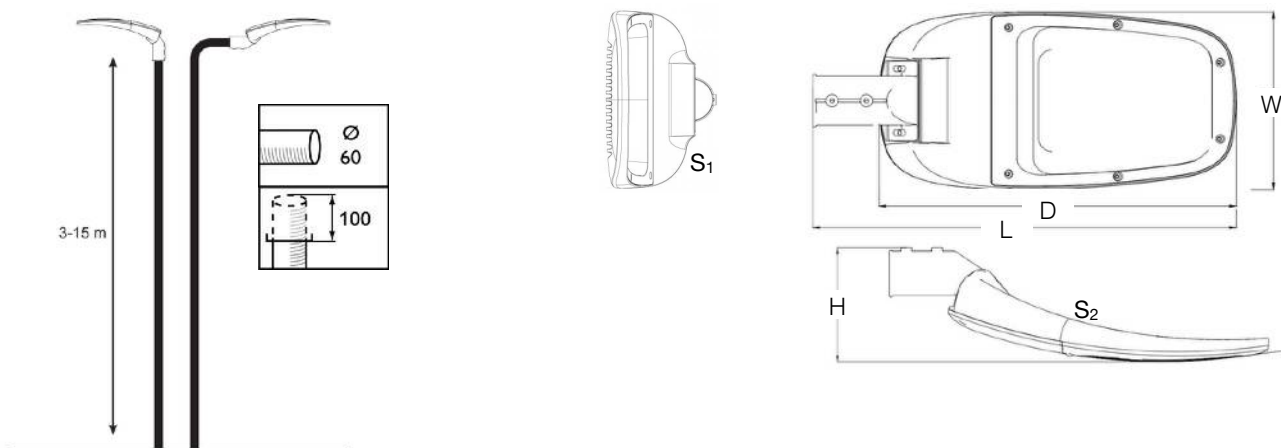
Supply Voltage	220-240V AC
Supply Frequency	50-60 Hz
RFI Suppression	EN 55015 / CISPR 15
Immunity	EN 61547
Harmonics	EN 6100-3-2
Operating Temperature**	-40 - +50 °C
Storage Temperature	-40 - +60 °C
Housing material	Aluminum
Enclosure Rating	IP66
Lid material	Tempered Glass
Mech. impact protection	IK09
Protection class IEC	Safety class I

Number of LED modules	3
Lamp family code	Fortimo FastFlex
Light colour K	3000, 4000 or 5700
Colour Rendering Index	> 70 or > 80
Min useful life	See next page
Driver /power unit/	PHILIPS XITANIUM
Flickering	IEEE 1789
Power factor (full load at 230V)	> 0.95
Control method	1- 10V, Dynadimmer LITE (DALI optional)
Dimming range	7 ...100 %
System Wattage	up to 150 W
LED module efficiency (max)	up to 160 lm/W
Lumen output of LED modules (max)	up to 18.669 lm

* in preparation

GENERAL TECHNICAL SPECIFICATIONS

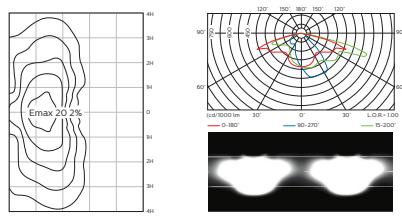
EAN	Ref.	Wattage	LED module efficiency (max)	Lumen output of LED modules (max)	Min useful life L80B50	Dimensions (mm)				Area (mm ²)	
						D	L	W	H	S ₁	S ₂
4772049000995	ST-3M/6000	60W	160 lm/W	9.627 lm	120.000 hours at Ta 25C°	580	676	303	186	0,0415	0,0394
					110.000 hours at Ta 45C°						
		90W	146 lm/W	13.131 lm	120.000 hours at Ta 25C°						
					110.000 hours at Ta 45C°						
		120W	134 lm/W	16.146 lm	110.000 hours at Ta 25C°						
					90.000 hours at Ta 45C°						
		150W	124 lm/W	18.669 lm	90.000 hours at Ta 25C°						
					70.000 hours at Ta 45C°						



AVAILABLE OPTICS

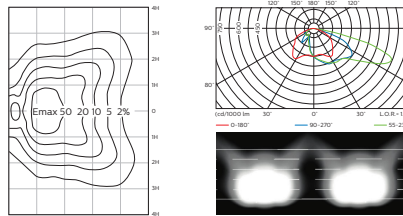
FastFlex lens 2x8/II-X Gen2

Designed for narrow roads and urban street lighting.



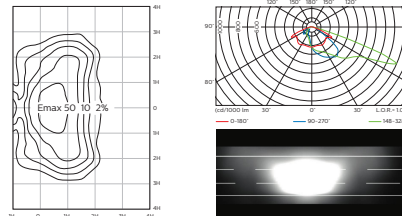
FastFlex lens 2x8/IV-X Gen2

Designed for wide roads and asymmetrical floodlighting.



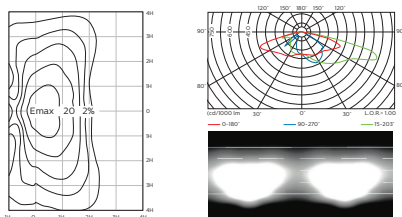
FastFlex lens 2x8/II-X WTR Gen2

Designed for wet road lighting.



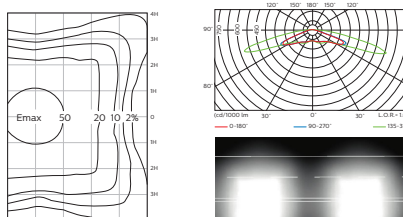
FastFlex lens 2x8/III-X Gen2

Designed for roads of medium width and urban street lighting.



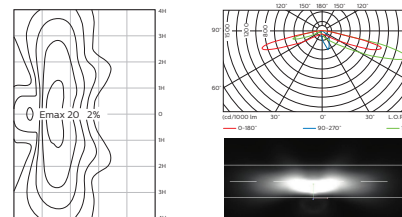
FastFlex lens 2x8/V Gen2

Designed for symmetrical lighting, e.g. parking lots, petrol stations.



FastFlex lens 2x4/SW-X Gen2

Designed for Pedestrian Road and Bicycle lighting.



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ELEKTROS TAUPYMO SPRENDIMAI, UAB
Didlaukio str. 94-22, Vilnius 08332, Lithuania
Liepu str. 15, Linksmakalnis, Kaunas distr. 53290, Lithuania
E: info@ecolight.lt T: +370 5 2328207 F: +370 5 2784262
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THE ENERGY-EFFICIENT LED STREET LIGHT

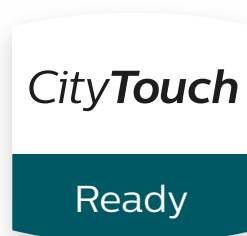
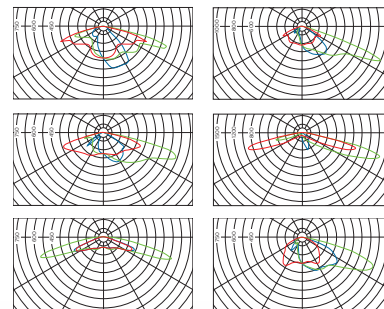
Model: ST-4M/6000

RADIUS
LED ST

ROAD LIGHTING AT ITS BEST

RADIUS LED ST street light showcases elegant compact design, and features state-of-the-art technologies from Philips. The system is equipped with Fortimo Fast Flex modules and Philips Xitanium Outdoor drivers. Fast Flex modules have a minimum lifetime of 120.000 hours. Other key features include a smart overhear prevention system, an efficient light angle control system, and a Dynadimmer function which allows energy-saving programmability. The system has great thermal characteristics, and can be utilised in temperatures ranging from – 40°C to + 50°C. To match the needs of different applications, RADIUS LED ST has six different optics options available.

Good to know: The system can be mounted on horizontal and vertical poles.

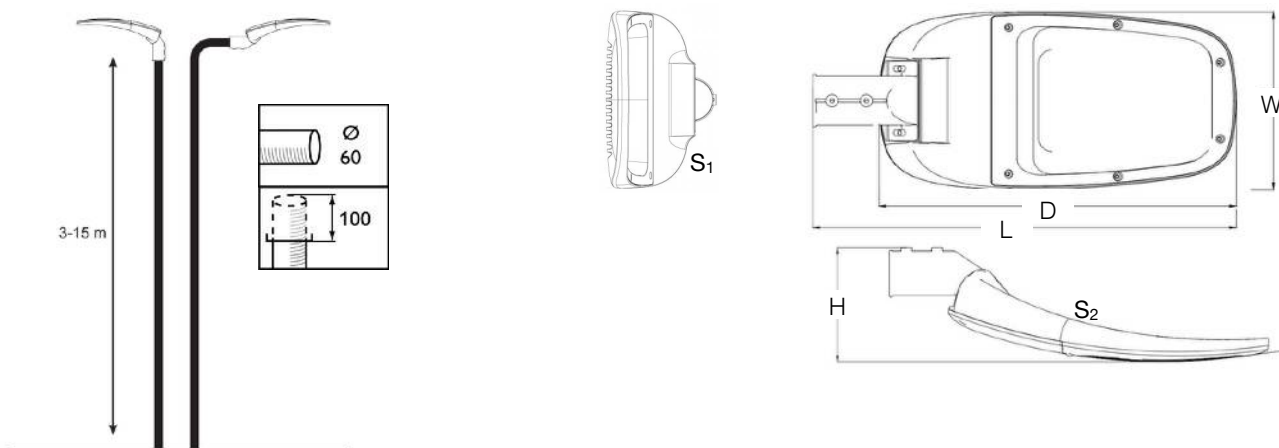


GENERAL TECHNICAL SPECIFICATIONS			
Supply Voltage	220-240V AC	Number of LED modules	4
Supply Frequency	50-60 Hz	Lamp family code	Fortimo FastFlex
RFI Suppression	EN 55015 / CISPR 15	Light colour K	3000, 4000 or 5700
Immunity	EN 61547	Colour Rendering Index	> 70 or > 80
Harmonics	EN 6100-3-2	Min useful life	See next page
Operating Temperature**	-40 - +50 °C	Driver /power unit/	PHILIPS XITANIUM
Storage Temperature	-40 - +60 °C	Flickering	IEEE 1789
Housing material	Aluminum	Power factor (full load at 230V)	> 0.95
Enclosure Rating	IP66	Control method	1- 10V, Dynadimmer LITE (DALI optional)
Lid material	Tempered Glass	Dimming range	7 ...100 %
Mech. impact protection	IK09	System Wattage	up to 200 W
Protection class IEC	Safety class I	LED module efficiency (max)	up to 160 lm/W
		Lumen output of LED modules (max)	up to 24.892 lm

* in preparation

GENERAL TECHNICAL SPECIFICATIONS

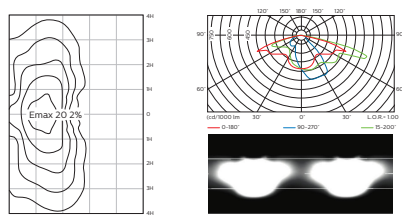
EAN	Ref.	Wattage	LED module efficiency (max)	Lumen output of LED modules (max)	Min useful life L80B50	Dimensions (mm)				Area (mm ²)	
						D	L	W	H	S ₁	S ₂
4772049002029	ST-4M/6000	80W	160 lm/W	12.836 lm	120.000 hours at Ta 25C°	754	850	365	198	0,0598	0,0552
					110.000 hours at Ta 45C°						
		120W	146 lm/W	17.508 lm	120.000 hours at Ta 25C°						
					110.000 hours at Ta 45C°						
		150W	134 lm/W	20.182 lm	110.000 hours at Ta 25C°						
					90.000 hours at Ta 45C°						
		200W	124 lm/W	24.892 lm	90.000 hours at Ta 25C°						
					70.000 hours at Ta 45C°						



AVAILABLE OPTICS

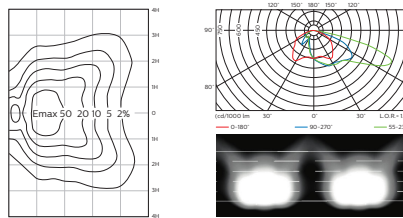
FastFlex lens 2x8/II-X Gen2

Designed for narrow roads and urban street lighting.



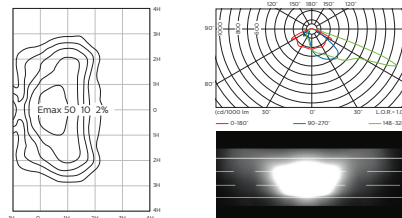
FastFlex lens 2x8/IV-X Gen2

Designed for wide roads and asymmetrical floodlighting.



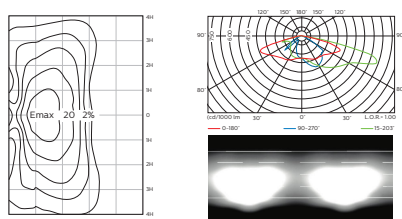
FastFlex lens 2x8/II-X WTR Gen2

Designed for wet road lighting.



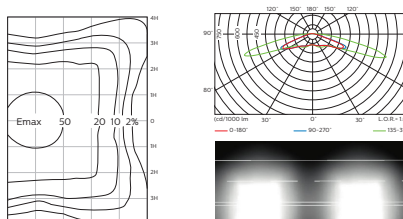
FastFlex lens 2x8/III-X Gen2

Designed for roads of medium width and urban street lighting.



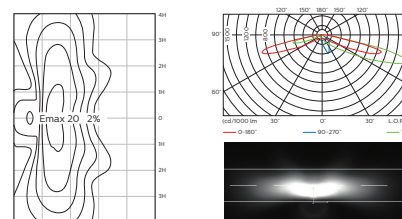
FastFlex lens 2x8/V Gen2

Designed for symmetrical lighting, e.g. parking lots, petrol stations.



FastFlex lens 2x4/SW-X Gen2

Designed for Pedestrian Road and Bicycle lighting.



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ELEKTROS TAUPYMO SPRENDIMAI, UAB
Didlaukio str. 94-22, Vilnius 08332, Lithuania
Liepu str. 15, Linksmakalnis, Kaunas distr. 53290, Lithuania
E: info@ecolight.lt T: +370 5 2328207 F: +370 5 2784262
W: www.ecolight.lt, www.ecolight-lights.co.uk

RADIUS SOLAR OFF GRID STREET LIGHT SYSTEM

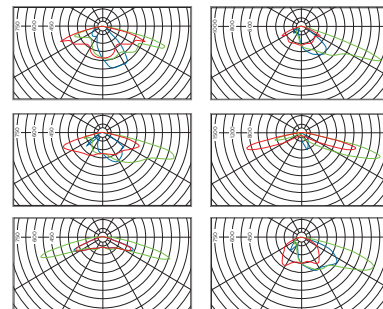
Models: ST-1M/6000/S/G, ST-2M/6000/S/G, ST-2M/6000/S/L

RADIUS SOLAR OFF GRID SYSTEM

GAME CHANGER IN SOLAR LIGHTING

RADIUS SOLAR OFF GRID STREET LIGHT SYSTEM is designed specifically for outdoor off-grid applications where electricity from the grid is not available or is very unreliable. The product features only the finest quality components from leading Dutch manufacturers: Philips Lighting and Victron Energy. One of the key advantages of this system is the fast charging batteries. Another advantage is the Dynadimmer function which allows smart energy-saving programmability. What's more, this solar system can be controlled via Bluetooth through any iOS or Android smartphone. The structure of the system is made from galvanised metal, rendering the system suitable for seashore environments.

Good to know: The use of cutting-edge components and dimming functionality makes this solar system effective even in Northern countries lacking sunshine.



Made in EU



Best price-quality ratio



Environmentally friendly



Bluetooth control



Automatic switch on/off function



Programmable LumiStep



Long life time



Configurable dimming timer



Generously equipped solution



Strictly top quality PHILIPS and VICTRON ENERGY components distinguish the RADIUS SOLAR OFF GRID street light as an extremely reliable source of light with prolonged service life.

CityTouch

Ready



* in preparation



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Didlaukio str. 94-22, Vilnius 08332, Lithuania
Liepu str. 15, Linksmakalnis, Kaunas distr. 53290, Lithuania
E: info@ecolight.lt T: +370 5 2328207 F: +370 5 2784262
W: www.ecolight.lt, www.ecolight-lights.co.uk

GENERAL TECHNICAL SPECIFICATIONS

	ST-1M/6000/S/G	ST-2M/6000/S/G	ST-2M/6000/S/L
EAN	4772049002036	4772049002043	4772049002050
Wattage	30W	60W	60W
Street light model	ST-1M/6000 (SOLAR)	ST-2M/6000 (SOLAR)	ST-2M/6000 (SOLAR)
Standards	EN 60598-1, EN 60598-2-3, EN 62471, EN 55015, EN 13032-1		
Lighting category according to EN13201	ME5 / ME6 / S2 / S3 / S4 / S5 / S6		
Typical application	Residential streets, private driveways, walking paths, urban local roads, parking lots, bicycle lanes, industrial areas		
LED light housing material	Aluminum		
Enclosure Rating	IP66 (applies to the whole system)		
Lamp family code	PHILIPS Fortimo FastFlex		
Light colour K	3000, 4000 or 5700		
Colour Rendering Index	> 70 or > 80		
Optics	Choice of 6 different optics		
Driver /power unit/	PHILIPS XITANIUM		
VE.Direct Bluetooth Smart dongle	No	Optional	
Control method	Programmable LumiStep		
Dimming range	10 ...100 %		
PV panel	VICTRON 100W-12V Poly	VICTRON 140W-12V Poly	VICTRON 140W-12V Poly
Panel dimensions	1000×670×35mm	1480×673×35mm	1480×673×35mm
Charger	VICTRON BlueSolar MPPT 75/10	VICTRON BlueSolar MPPT 75/10	VICTRON BlueSolar MPPT 75/10
Over-heat protection	Yes		
BMS	No	No	Yes
Battery protection	Yes		
System Bluetooth control	Yes	Yes	Yes
Battery Bluetooth monitoring	No	No	Yes
Battery	3 x 12V/22Ah AGM Deep Cycle *might be extended up to 6	5 x 12V/22Ah AGM Deep Cycle *might be extended up to 6	1 x LiFePO4 battery 12,8V/ 60Ah - Smart
System autonomy	up to 24 hours*		
Temperature range	-20 °C to + 50 °C		
Pole	Not included		
Component storage	Cabinet (above ground or underground as an option)		
Construction material	Galvanised steel		
Construction weight	49 kg	54 kg	54 kg

* Based on average annual specific yield of 1,100 kWh/kWp and with partially activated dimming function.



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Liepu str. 15, Linksmakalnis, Kaunas distr. 53290, Lithuania
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SENSORS

<p>REF: EBDHS</p> <p>The EBDHS PIR (passive infrared) presence detector provides automatic control of lighting loads with optional manual control. The EBDHS is a high sensitivity PIR detector suitable for high bay applications, such as warehouses and factories, and where high detection sensitivity is needed. Provides dimmable control of DALI ballasts.</p> <p>The EBDHS-LT30 range of high sensitivity detectors is perfect for this application with its operating temperature of -30°C and detection range of up to 40 m.</p>		<p>REF: LRI1667/00</p> <p>LRI1667/00 is a Philips sensor from the ActiLume gen2 system specially designed for high ceilings in industry and retail applications.</p>	
<p>REF: EBMPIR</p> <p>The EBMPIR-MB series of batten mount PIR presence detectors provide automatic control of lighting loads. It has been specifically designed for mounting onto a batten style luminaire. The direct dim variant controls DALI or DSI digital dimming ballasts, whilst the analogue dim variant controls 1-10V dimming ballasts.</p> <p>The EBMPIR-MB-LT30 range is perfect to use in car parking or low bay freezer room application where the temperature is aggressively cold to -30°C.</p>		<p>REF: LRI1653/00</p> <p>The LRI1653/00 is a Philips sensor from the ActiLume system designed for low ceilings in industry, office and retail applications.</p>	
<p>REF: EBDHS-MB</p> <p>The EBDHS-MB luminaire mount high bay PIR presence detector range provides exceptionally sensitive and long range detection. The detectors are ideal for high bay lighting control in areas with demanding spaces and increased mounting heights such as warehouses and factories. Provides dimmable control of DALI ballasts.</p> <p>The EBDHS-LT30 range of high sensitivity detectors is perfect for this application with its operating temperature of -30°C and detection range of up to 40 m.</p>		<p>REF: LLC1686</p> <p>The Philips ActiLume Wireless DALI gen2 lighting control system consists of a multi-sensor and a controller, designed for integration into luminaires. It is a plug and play solution for numerous applications for office and industrial areas. Wireless communication is conform the ZigBee Pro standard (IEEE 802.15.4, WPAN).</p>	
<p>REF: UNLCDHS</p> <p>The UNLCDHS is a compact infrared handset used for the operation, configuration and programming of CP products that have the ability to be programmed via IR and/or RF.</p>		<p>REF: LCN8650/10</p> <p>The LCN8650/10 MultiOne interface USB2ZigBee is a dongle that can be used with the LCS8600 MultiOne PC software from Philips to commission and configure the ActiLume Wireless controllers using ZigBee.</p>	
<p>REF: UHS5</p> <p>The UHS5 is a compact infrared handset used for the basic programming of IR enabled CP products.</p>		<p>REF: UID8410</p> <p>The Philips ActiLume Wireless DALI Gen 2 system is a standalone lighting control system but can be manually overruled with the optionally available Wireless Scene Remote UID8410.</p>	

SUSPENSION SETS & ITEMS

EAN	Ref.	Description	Picture	EAN	Ref.	Description	Picture
4772049000797	HF12FR	HF CLASSIC LOOP END FIXING NO.1 (0-10 KG) 2M		4043952670712	99008405	Eye bolts M5	
4772049000841	HF12ECSEXP	HF EXPRESS SNAP-ON MINI HOOK END FIXING NO.1 (0-15 KG) 2M		4043952670873	99008406	Eye bolts M8	
4772049000803	HF12ECS	HF CLASSIC SMALL SNAP-ON HOOK END FIXING NO.1 (0-10 KG) 2M		4043952715062	99008407	Carabiner hook M6	
4772049000810	HF12EF6	HF CLASSIC STUD M6 END FIXING NO.1 (0-10 KG) 2M		4772049001633	99016401	STUCCHI 3 POLE FAST CONNECTION	
4772049000827	HF22EF8	HF CLASSIC STUD M8 END FIXING NO.2 (10-45 KG) 2M		4772049001640	99016402	STUCCHI 5 POLE FAST CONNECTION	
4772049000780	HF12EO90	HF CLASSIC 90° EYELET END FIXING NO.1 (0-10 KG) 2M		4772049001107	99008410	3 x 1.5 mm² solid wire	
4772049000834	HF12SP	HF CLASSIC TOGGLE END FIXING NO.1 (0-10 KG) 2M		4772049001121	99008411	3 x 2.5 mm² solid wire	
4772049000858	SQCM612EC	SQUEEZE LOCK CENTRAL EXIT M6 MALE NO.1 (0-15 KG) 2M HOOK END FIXING		4772049001084	99008412	3 x 1.5 mm² soft wire	
4772049000926	YF12EC500	Y-FIT CLASSIC SNAP-ON HOOK NO.1 (0-10 KG) 2M - LEG LENGTH 500MM		4772049001114	99008413	3 x 2.5 mm² soft wire	
4772049000919	YF12EC300	Y-FIT CLASSIC SNAP-ON HOOK NO.1 (0-10 KG) 2M - LEG LENGTH 300MM		4772049001091	99008518	3 x 1.5 mm² soft wire (chemically resistant)	
4772049000896	YF12ECS300	Y-FIT CLASSIC MINI SNAP-ON HOOK NO.1 (0-10 KG) 2M - LEG LENGTH 300MM		4772049001152	99008514	5 x 1.5 mm² solid wire	
4772049000902	YF12ECS500	Y-FIT CLASSIC MINI SNAP-ON HOOK NO.1 (0-10 KG) 2M - LEG LENGTH 500MM		4772049001176	99008515	5 x 2.5 mm² solid wire	
				4772049001138	99008516	5 x 1.5 mm² soft wire	
				4772049001169	99008517	5 x 2.5 mm² soft wire	
				4772049001145	99008519	5 x 1.5 mm² soft wire (chemically resistant)	
					99008412	FENOSOL® S 10 UVA Anti-Static cleaning agent with a very weakly abrasive effect, for white profile surfaces. Controls the attraction of dirt and dust. Qty: 1000 ml	
							

CERTIFICATES

ISO 9001:2008

BUREAU VERITAS CERTIFICATION

ECOLIGHT as a professional lighting manufacturer, provider of lighting installation, maintenance, testing and commissioning services is committed to developing and maintaining a Quality Management System in accordance with the requirements of ISO 9001:2008.



ISO 14001:2004

BUREAU VERITAS CERTIFICATION

As a manufacturer of energy efficient lighting ECOLIGHT understands great importance of protecting the environment in which we live. ECOLIGHT has implemented an environmental care system with the objective of company's activity in compliance with the environmental legislation.



OHSAS 18001:2007

BUREAU VERITAS CERTIFICATION

Being social enterprise and employing people with disabilities ECOLIGHT recognises the importance of managing occupational health, safety and welfare throughout all our operations and activities and we regard it as integral to our overall business strategy.



CE MARK

ECOLIGHT & EGSC

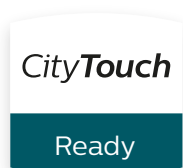
All ECOLIGHT luminaries complies with the requirements of the Low Voltage Directive 2006/95/EB and EN 60598-1 Also with the requirements of the European Electromagnetic Compatibility (EMC) Directive 2004/108/EB: EN55015 for radio disturbance, EN61547 for EMC immunity and EN6100-3-2, EN6100-6-1, EN6100-6-3 for harmonics.



CityTouch Ready partnership

PHILIPS LIGHTING B.V.

The CityTouch Ready partner certification confers the ability to assemble CityTouch control components into luminaries, to configure and program these luminaries as CityTouch Ready luminaries, and sell these luminaries as CityTouch Ready Luminaries to Philips Lighting's end-customers.



ENEC MARK

BBJ Association of Polish Electricians

ENEC is the high quality European Mark for electrical products that demonstrates compliance with European standards (EN). ENEC means safety in Europe, and all signatories of the ENEC Mark Scheme actively support its commitment to the highest safety levels.



DIN 18032-3 AND EN 13964

UNIVERSITY OF STUTTGART

LUMINA and SAULA models have passed testing of the ball throwing safety of an installation element according to DIN 18032-3:1997-04 "Sport halls; Halls for gymnastics, games and multi-purpose use; as well as the impact resistance of a ceiling element" according to EN 13 964 Annex D. This Certification means that LUMINA and SAULA units are safe to use in Sport Halls without any additional protection cage.



POLAND PZH CERTIFICATE

NATIONAL HYGIENE INSTITUTE (POLAND)

The National Hygiene Institute (PZH) certificate of approval for sale and usage of ECOLIGHT luminaries.



CNBOP Certificate of Admittance

THE NATIONAL AND RESEARCH CENTRE FOR FIRE PROTECTION

Certificates of Admittance issued by The National and Research Centre for Fire Protection issues is only required on territory of Poland according to Act issued 24.08.1991 regarding fire protection (O.J. 2009 no. 178, pos. 1380), together with executive acts.



HACCP Declaration of Conformity

SISTEMŲ REGISTRAS, UAB

LUMINA LED (LM, LN, LD) SERIES, SAULA LED (LN, SW, SN) SERIES and ELUMA LOW BAY LED (ZL, LE, PD) SERIES fulfil the requirements of regulation (EC) No 853/2004 (HACCP) of the European Parliament and of the Council of the Hygiene of Foodstuffs Annex II chapter I paragraph 2 A, B chapter II paragraph 1 C.



REFERENCES

LITHUANIA

COMPANY	PRODUCTS	INDUSTRY
UAB "EUGESTA" Vilijos str. 2, LT-02242, Vilnius www.eugesta.lt	LUMINA T5	
UAB "VILNIAUS TRANZITAS" Metalo g. 2A, LT-02190 Vilnius www.vtranzitas.lt	LUMINA T5	
UAB "FUDO" Taikos ave. 96, LT-51178 Kaunas, Lithuania www.fudo.lt	ELUMA T5	LOGISTICS
UAB "SANITEX" Raudondvario str. 131 LT-47501, Kaunas www.sanitex.eu	LUMINA T5 ELUMA T5 T8-T5 adaptors	
UAB "Vingės terminalas" Verslo g. 11, LT-94102, KLAIPĖDA www.vingeterminalas.lt	LUMINA LED SAULA LED LN ELUMA LED	
AB "Lietuvos geležinkeliai" Mindaugo str. 12, Vilnius LT-03603 www.litrail.lt	ELUMA T5	RAILWAYS
AB "CITY SERVICE" Lvovo str. 25, LT-09308 Vilnius www.cityservice.lt	T8-T5 adaptors	SERVICE
UAB Švyturys-Utenos alus (part of CARLSBERG) Pakalnės str. 9, Vilnius www.svyturys.lt, www.utenosalus.lt	SAULA LED LN ELUMA LED ZL SKY PANELS LED	BEVERAGE
COCA-COLA HBC LIETUVA, UAB Alytaus gamykla Miskininku str. 19, LT-62200, ALYTUS www.coca-cola.lt	ELUMA T5 SAULA LED LN	
UAB "MAXIMA LT" Savanorių pr. 247 LT-02300 Vilnius www.maxima.lt	ELUMA T5 T8-T5 adaptors	
UAB "RIMI LIETUVA" Savanorių pr. 16, 03116 Vilnius www.rimi.lt	ELUMA T5 T8-T5 adaptors	RETAIL
UAB „PALINK“ Lentvario g. 33, LT-02241 Vilnius www.iki.lt	T8-T5 adaptors	
MECHEL NEMUNAS, UAB Kalanotos g. 83, LT-52005 Kaunas www.mechelnemunus.lt	LUMINA T5	
Peikko Lietuva, UAB Naglio g. 4A, LT-52367 Kaunas www.peikko.lt	LUMINA T5	
UAB "STIKLO GAMINIAI" (GLASS LT) Naujoji g. 136-3, LT-62175, Alytus www.stiklogaminiai.lt	ELUMA T5	
UAB "KORELITA" Pramonės pr. 4, LT-51329 Kaunas www.korelita.lt	ELUMA T5 T8-T5 adaptors	
UAB "SAPA PROFILIAI" Taikos ave 106, Kaunas LT-51170 www.sapa.lt	LUMINA T5 T8-T5 adaptors	
AB "AKSA" Elektrenų str.10, LT-51218, Kaunas www.aksa.lt	ELUMA T5 LUMINA T5	
UAB "DOMINARI SOFA" Klaipėdos g. 147A, LT-37373 Panevėžys www.dominari.lt	LUMINA T5 SAULA LED	
UAB "MTL spaustuvė" Dariaus ir Girėno g. 99, LT-02189 Vilnius www.mtlcarton.com	SAULA T5	
UAB "DPD Lietuva" Liepkalnio g. 180, Vilniaus m., Vilnius www.dpd.lt	SAULA T5	PRODUCTION
UAB "Grigiskės" Vilniaus g. 10, Grigiskės, LT-27101 Vilnius www.grigiskes.lt	LUMINA LED	
UAB "Lavisos koncernas" Sukilėlių pr. 20, LT-50157 Kaunas www.lavisa.lt	LUMINA T5	
UAB "VISAGINO LINIJA" Pramonės g. 4, Karlių k. LT-30270, Visaginas www.sba.lt	SAULA T5	
UAB "Stansefabrikken" Pašilės g. 10, LT-20194 Ukmergė http://www.stansefabrikken.lt	SAULA T5	
UAB "Šilutės durpės" Šilojų g. 2, Traksėdžiai, LT-99104 Šilutės r. www.klasmann-deilmann.com	LUMINA LED LN SKY PANELS	
UAB "Ecowood" Vilkija, LT-54222 Kauno r. www.ecowood.eu	ELUMA LED	
UAB "BARDUVA" Liepkalnio g. 61, Vilnius LT-02120, Lietuva www.barduva.eu	ELUMA LED	
UAB "Fazer Lietuva" Raudondvario pl. 129a, LT-47188 Kaunas www.fazer.lt	ELUMA LED PD	

LITHUANIA

COMPANY	PRODUCTS	INDUSTRY
UAB "Fazer Lietuva" Raudondvario pl. 129a, LT-47188 Kaunas www.fazer.lt	ELUMA LED PD	
UAB "Baltijos Brasta" Palemono g. 7b, LT-52158 Kaunas www.baltijosbrasta.lt	ELUMA LED PD	
UAB JUBANA Gamyklos g. 45, LT-89103 Mažeikiai www.jubana.lt	ELUMA LED PD	
UAB "Liningas" Pramonės g. 4, LT- 51329 Kaunas www.liningas.lt	ELUMA LED PD	
UAB "Samsonas" Europos prospektas 89, LT-46333 Kaunas www.samsonas.lt	ELUMA LED PD	
UAB "Fasa" Stoties g. 10, LT-68112, Marijampolė www.fasa.lt	SAULA LED LN	PRODUCTION
UAB "Randers Reb International" Naujoji g. 130, LT-62175 Alytus www.randers-reb.lt	ELUMA LED PD	
AB "SNAIGĖ" Pramonės g.6, LT-62175, Alytus www.snaige.lt	SAULA LED LN	
UAB "Liutukas ir Ko" Alovės g. 15, LT-46344 Kaunas info@liutukas.lt	ELUMA LED PD	
AB "Grigeo Klaipėdos Kartonas" Alovės g. 15, LT-46344, Kaunas www.grigeo.lt	ELUMA LED PD	
UAB "Albright Lietuva" Kretainio g. 4, LT-94103 Klaipėda www.albrightinternational.com	ELUMA LED PD	
UAB "Agrokonzernas" Užnerio g. 15, LT-47484 Kaunas www.agrokonzernas.lt	SAULA LED LN	AGRO
UAB "Kaunas Aircraft Maintenance Services" (Ryanair) Oro Uosto g. 4, Karmėlava, LT-54460 Kauno r. www.kams.lt	SAULA LED LN	AIRPORT
UAB "Ambertonas" Taikos pr. 98, LT-51177 Kaunas www.ambertonas.lt	ELUMA LED PD	LOGISTICS
UAB "Lavisos LEZ terminalas" Terminalo g. 6, Biruliškių km, Kauno raj., LT-54469 www.lez-terminalas.lt	SAULA LED LN ELUMA LED PD	
HAMPIDJAN BALTIC Pakruojo g. 34, Šiauliai 76126 www.hampidjan.is	SAULA LED LN	PRODUCTION
PEIKKO LIETUVA, UAB R. Kalantos g. 49, Kaunas 52303 www.peikko.lt	LUMINA LED LUMINA SAULA LED LN	
VOLFAS ENGELMAN, UAB Kaunakiemio g. 2, LT-44354 Kaunas www.volfasengelmann.lt	ELUMA LED ZL	BREWERY
UAB "Inter Cars Lietuva" Titnago g. 6, LT-02300 Vilnius www.intercars.lt	ELUMA LED PD	WHOLESALE
UAB "Bennet distributors" Metalo g. 2B, LT-02190 Vilnius www.bennet.lt	LUMINA T5	
UAB "Novameta" Draugystės g. 15D, LT-51227 Kaunas www.novameta.lt	SAULA LED LN	
UAB "Arimex" Kirtimų g. 49, LT-02244 Vilnius www.arimex.lt	ELUMA LED ZL	
UAB "Mantinga" Stoties g. 51, LT-68261 Marijampolė www.mantinga.lt	ELUMA LED ZL	PRODUCTION
UAB "Camira fabrics" Žemaičių g. 47, Ariogala, LT-60252 Raseinių r. www.camirafabrics.com	ELUMA LED ZL SAULA LED LN	
UAB "Kaefer" Ringuvos g. 65A, LT-45245 Kaunas www.termoizola.lt	ELUMA LED ZL	
Šiaulių teniso mokykla, VšĮ Gardino g. 8, LT-78232 Šiauliai www.siauliaitennis.lt	SAULA LED LN	TENNIS HALL
UAB "Kauno vaisių ir daržovių prekyba" Ateities pl. 75A, LT-52104 Kaunas www.kaunovaisiai.lt	ELUMA	FOOD
UAB "Spaudos kontūrai" Pašilaičių k., Zujūnų sen., LT-14158 Vilniaus r. www.s-k.lt	SAULA LED LN	PRINTING HOUSE
UAB "Skirlita" Kauno g. 3-2, Miklūsenai, LT-62461 Alytaus r. www.apziura.lt	SKY PANEL ELUMA	SERVICES

POLAND

COMPANY	PRODUCTS	INDUSTRY
INS Lighting Reymonta 56, 80-290 Gdańsk www.inslighting.pl	ALL PRODUCTS	DISTRIBUTION
TELMEX Sp. z o.o. Ul. Gdańska 22, 12-200 Pisz www.telmed.com.pl	SAULA LED	
ADAMS Ul. Giżycka 5, 11-700 Mrągowo www.adams.com.pl	SAULA T5 SAULA LED	
GLOBMETAL Ul. Drowcowa 56, 76-004 Sianów www.globmetal.eu	LUMINA T5	
Dovista sp. z o.o. Wędkowy 83-115 Swarzędz www.sanitex.eu	T8-T5 adaptors	
KAPEO POLSKA sp. z o.o. ul. Strażacka 3, 83-321 Mściszewice www.kapec.com.pl	ELUMA T5	
ALLTEAMS Abrahama 10, 84-300 Łęborg www.alteams.com	SAULA T5	
SATEL sp. z o.o. Ul. Budowlanych 66, 80-298 Gdańsk www.satel.pl	T8-T5 adaptors	PRODUCTION
GREINER PACKAGING sp. z o.o. Al.XX-lecia 54, 96-515 Teresin www.greiner-gpi.com	SAULA LED ELUMA LED ZL	
CP Glass S.A. Oddział Huta Szkła „Orzesze” ul. Gliwicka 59, 43-180 Orzesze www.hso.pl	SAULA LED LN XT	
LUBAWA S.A. ul. Waryńskiego 32-36, 86-300 Grudziądz www.lubawa.com.pl	ELUMA LED SKY PANEL LED	
Wojskowe Zakłady Uzbrojenia S.A. Parkowa 42, 86-300 Grudziądz, Poland www.wzu.pl	SAULA LED	
Federal - Mogul Gorzyce Sp. z o.o. ul. Odlewników 52, 39 - 432 Gorzyce Polska www.wzu.pl	SAULA LED SAULA LED XT ELUMA LED	
BLACK RED WHITE S.A. ul. Krzeszowska 63, 23-400 Biłgoraj www.brw.com.pl	SAULA LED ELUMA LED ZL ECOLINE LED	
DAJAR Sp. z o.o. ul. Poławska 6, 75-072 Koszalin http://www.dajar.pl	ELUMA LED ZL SAULA LED	DISTRIBUTION
KORNIX Sp. z o.o. ul. Kościarska 18 83-250 Skarszewy	LUMINA LED	
MAZURY Sp. z o.o. ul. Przemysłowa 8, 14-100 Ostróda www.ostmazury.pl	SAULA LED LN	
CONVEX-GLASS Sp. z o.o. Chmielek 204B, 23-412 Łukowa www.convexglass.pl	ELUMA LED ZL	
TREFL S.A. Plac Dwóch Miast 1, 81-731 Sopot www.trefl.com	ELUMA LED ZL SAULA LED LN	
ZAKŁAD PRODUKCJI OPAKOWAŃ KARTON-PAK S.A. ul. Hutnicza 10-12, 67-100 Nowa Sól www.kartonpak.pl	ECOLINE LED	PRODUCTION
SERWISTAL Sp. z o.o. ul. Dojazdowa 2a 19-300 Elk www.serwistal.pl	LUMINA LED	
ORISTO Sp. z o.o. Montowo 59, 13-324 Grodziczno www.oristo.pl	ECOLINE LED ZL ELUMA LED	
SIM Gdynia Holding ul. Rewerenda 7 80-209 Chwaszczyno www.simgdynia.eu	ECOLINE LED ZL ELUMA LED SKY PANEL LED	
InBet Sp. z o.o. ul. Przemysłowa 10 83-050 Kolbudy www.inbet.com.pl	RADIUS LED	
KRISPAUL ul. Do studzienki 31 80-227 Gdańsk www.krispaul.pl	ZL ELUMA LED SKY PANEL LED	PRINTING HOUSE
VOLVO GROUP TRUCK CENTER ul. Szwedzka 9 32-050 Skawina	ELUMA LED ZL	TRUCK WORKSHOP
P.P.H. KROS Sp. z o.o. Iłownica 3 83-412 Głodowo kros.com.pl	SAULA LED	FOOD INDUSTRY

GERMANY & AUSTRIA

COMPANY	PRODUCTS	INDUSTRY
RMBH GmbH Steinweg 3-5, 91567 Herrieden, GERMANY www.rmbh.de	LED PRODUCTS	DISTRIBUTION
Weisert & Daur GmbH & Co. KG Benzstraße 9, 74076 Heilbronn www.weisert-daur.de	LUMINA LED LN	PACKING
Grafschafter Gymnasium Bankstraße 20, 47441 Moers, Germany www.graftschafter-gymnasium.de	SAULA LED LN	GYMNASIUM
Kessler & Co. GmbH & Co. KG Hüttlinger Str. 18-20, D-73453 Abtsgmünd www.kessler-axles.de	LUMINA LED LN	
HORSCH Maschinen GmbH Sitzenhof 1, 92421 Schwandorf www.horsch.com	LUMINA LED LN SAULA LED LN	AUTOMOTIVE
Johann Hoefel & Sohn GmbH & Co. KG Balbierstraße 30, 90763 Fürth, Germany www.hoefel-und-sohn.de	SAULA LED LN	
Backhaus Grimminger GmbH Heimstettener Straße 1 85599 Parsdorf	LUMINA LED LN	PRODUCTION
CURTISS-WRIGHT INDUSTRIAL GROUP Schleissheimer Str. 91A, 85748 Garching, Germany	SAULA LED LN	
Linde Gas Vertriebspartner Technische Gase - Spedition Wüst GmbH & Co. KG Lehenwiesenweg 31, 91781 Weißenburg in Bayern, Germany	LUMINA LED LN	LOGISTICS
GIMA Gipser- und Malerbedarf GmbH & Co Groß- und Einzelhandels KG Windmühle 11, 91567 Herrieden, Germany	LUMINA LED LN	RETAIL
Münster Therme Münsterstraße 13, 40477 Düsseldorf, Germany www.baeder-duesseldorf.de	ELUMA LED ZL	SERVICES
Ebalta Kunststoff GmbH Rothenburg ob der Tauber, 91541 Rothenburg ob der Tauber, Germany www.ebalta.de	LUMINA LED LN	
Vogel & Sohn GmbH & Co.KG Hardtstraße 22, 91522 Ansbach, Germany www.schrott-vogel.de	SAULA LED LN LUMINA LED LN	PRODUCTION
Schirmer Galvanotechnik GmbH Am Kiefernschlag 18, 91126 Schwabach, Germany www.schirmer-galvanik.de	SAULA LED LN	

SLOVENIA

COMPANY	PRODUCTS	INDUSTRY
Kostroj Strojgradnja d.o.o. Tovarniška cesta 2, 3210 Slovenske Konjice, Slovenia www.kostroj.com	LUMINA T5	
AquafileSLO d.o.o. Letalska Cesta, 15 – 1001 Ljubljana – SLOVENIA www.aquafile.com	SAULA LED LN	
ALPINA SHOES FACTORY Strojarska ulica 2, 4226 Žiri www.alpina.si	SAULA LED LN ELUMA LED ZL RADIUS LED ST	
SAVATECH, d.o.o. Industrial Rubber Products and Tyres Škofjeloška c. 6, SI-4000 Kranj, Slovenia www.savatech.eu	ELUMA LED PD	
Itw Metalflex, d.o.o. Poljubinj 89e, 5220 Tolmin, Slovenia www.itwmetalflex.com	SAULA LED LN SKY PANEL LED	
Unior kovaška industrija d.d. Kovaška cesta 10, 3214 Zreče, Slovenia www.unior.si	SAULA LED LN	PRODUCTION
Sij Acroni d.o.o. Cesta Borisa Kidriča 44, 4270 Jesenice, Slovenia www.sij.acroni.si	SAULA LED LN	
Etiketa, tiskarna, d.d. Industrijska ulica 6, 4226 Žiri, Slovenia www.etiketa.si	EUMA LED ZL	
Goričane tovarna papirja Medvode, d.d. Ladja 10, 1215 Medvode, Slovenia www.goricane.si	EUMA ZL T5	
Mufon, družba za usposabljanje in zaposlovanje invalidov, d.o.o. Stationery store in Radeče, Slovenia	ELUMA LED PD	
Papirnica Vevče d.o.o. 1261 Ljubljana - Dobrunje, Slovenia www.brigl-bergmeister.com	ELUMA LED PD	
Iskra ISD d.o.o. Savska loka 4, 4000 Kranj, Slovenia www.iskra-isd.si	ELUMA LED PD	
Lipar, proizvodno in trgovsko podjetje, d.o.o. Lahovče 31, 4207 Cerklje na Gorenjskem, Slovenia www.lipar.si	SAULA LED LN	RETAIL
Goodyear Dunlop Sava Tires, proizvodnja pnevmatik, d.o.o. Škofjeloška cesta 6, 4000 Kranj, Slovenia www.sava-tires.si	SAULA LED LN ELUMA LED PD	LOGISTICS

MACEDONIA

COMPANY	PRODUCTS	INDUSTRY
I-Impuls Ltd TC Beverly Hills 1/11, 1000 Skopje, Macedonia www.i-impuls.mk	ALL PRODUCTS	DISTRIBUTION
BAS Tuti Fruti Skupi 20 bb, Skopje, Macedonia www.bastutifruti.com	ELUMA T5	PRODUCTION
Hemija Komerc	ELUMA T5	
Johnson Matthey DOOEL TIDZ Skopje 1, 1041 Ilinden, MACEDONIA http://ect.jmcatalysts.com	ELUMA T5	
Detal VELD www.detalveld.com	ELUMA T5	RETAIL
DUROPAK KOMUNA AD - SKOPJE Romanija str., bb 1040 Skopje - MACEDONIA www.komuna.com.mk	ELUMA T5	
BADEV Kavadarci	ELUMA T5	
SC Boris Trajkovski www.scboristratkovski.gov.mk	ELUMA T5	SPORT
LIRIJA School	ELUMA T5	
LION Sv. Nikole Regionalen Pat R-105 bb Sveti Nikole, 2220, Macedonia www.lion.com.mk	ELUMA T5	FOOD INDUSTRY
Swisslion доо ул. "Качанички пат " 83, 1000 Скопје http://swisslion.com.mk	ELUMA T5	
ALKALOID AD SKOPJE Blvd. Aleksandar Makedonski 12, 1000 Skopje www.alkaloid.com.mk	ELUMA T5	PHARMACEUTICAL

AUSTRALIA

COMPANY	PRODUCTS	INDUSTRY
REMTRON AUTOMATION Melbourne, Unit 12/2 Sibthorpe Street, Braeside Vic 3195 www.remtron.com.au	ELUMA T5	WHOLESALE
Q Industries Pty Ltd 16 Fullarton Drive, VIC 3076 Epping, Australia www.qindustries.com.au	SAULA LED LN	WHOLESALE

SPAIN / PANAMA

COMPANY	PRODUCTS	INDUSTRY
COFFER ILLUMINACION S.L. 03690 SAN VICENTE DEL RASPEIG, SPAIN www.cofertiluminacion.com	LUMINA T5	WHOLESALE

KINGDOM OF SAUDI ARABIA

COMPANY	PRODUCTS	INDUSTRY
AL SALEM KITCHENS AND LIGHTING CO. LTD P.O. BOX 11976 JEDDAH 21463 KSA www.kitchendesigners-ksa.com	SAULA LED	DISTRIBUTION
ASTRA FOOD CO. LTD 1485 Tabuk 71431, KSA www.astrafood.com	ELUMA LED ZL	PRODUCTION
Optimal Engineering Solutions LTD Office 3, Bldg 2980, Falsteen Str. P.O. Box 5475 JEDDAH 21422, KSA	SKY PANEL LED	HOTELS

U.A.E.

COMPANY	PRODUCTS	INDUSTRY
DEL MONTE FOODS (U.A.E) FZE Street 14 & 17, Central Fruit and Vegetable Market Area, Awir P.O. Box 294484, Dubai, UAE www.delmonte.com	SAULA LED ELUMA LED ZL	PRODUCTION

ITALY

COMPANY	PRODUCTS	INDUSTRY
GeneralLeds s.r.l. Via Albioli 10, 40126 BOLOGNA - ITALIA www.generaleds.com	SAULA LED LN	DISTRIBUTION
MANLED LIGHTING s.r.l. Via Garibaldi Franceschi, 4 Borgo San Lorenzo 50032, Italy www.manled.it	SAULA LED LN	

DENMARK

COMPANY	PRODUCTS	INDUSTRY
CANTOR LIGHT DESIGN Østerbrogade 226 DK-2100 København · Danmark www.cantorlightdesign.dk	ALL LED PRODUCTS	DISTRIBUTION
Ecofoss ApS Elmevej 8, Glyngøre (Jamohuset), 7870 Roslev www.ecofoss.dk	ALL LED PRODUCTS	
Rørvig City Municipality	RON LED SAULA LED LN SAULA LED LP	MUNICIPALITY BUILDINGS
Valby-Hallen Julius Andersens Vej 3, 2450 København SV, Denmark	SAULA LED LN	SPORT ARENA

JORDAN

COMPANY	PRODUCTS	INDUSTRY
Consolidated Energy & Economic Engineering Amman – Jordan www.cthreee.com	ALL LED PRODUCTS	DISTRIBUTION
Siniora Food Industries King Abdallah II Industrial City, Amman 11512, Jordan www.siniorafood.com	SAULA LED LN ELUMA LED ZL	FOOD INDUSTRY
Al Jabali Trading Group http://al-jabali.com	SAULA LED LN ELUMA LED ZL	LOGISTICS
AL HUSSAM PLASTICS INDUSTRIES LIMITED Po Box 184352 11134 Amman, Jordan www.alhussampack.com	ELUMA LED LD	PRODUCTION
National Poultry Company (NPC) Baider Wadi Al-Seir Industrial Area www.delmontearabia.com	SAULA LED LN ELUMA LED ZL	FOOD INDUSTRY
Intercontinental Jordan Hotel Islamic College Street, Amman 11180, Jordan www.intercontinental.com	LED retrofits	HOTELS
Crown Plaza Resort Dead Sea Dead Sea, 18186 Sowayma, Jordan www.crownplaza.com	LED retrofits	
Crown Plaza Amman K. Faysal Ben Abdul Aziz St. Amman, Jordan www.crownplaza.com	LED retrofits	
Qatrana Cement Mecca Towers Center, Amman 11821 Jordan www.qcc.jo	RADIUS LED ST SAULA LED LN	PRODUCTION

CZECH REPUBLIC

COMPANY	PRODUCTS	INDUSTRY
NBB Bohemia s.r.o. Sídliště 693, 407 22 Benešov nad Ploučnicí, Czech Rep. www.nbb.cz	ALL PRODUCTS	DISTRIBUTION
LUMIDEE Svornosti 12, 150 00 Praha, Czech Republic www.lumidee.cz	LUMINA T5 SAULA T5 & LED ELUMA LED	
ALEDO s.r.o. Vodní 987/9, 796 01 Prostějov, Czech Republic www.aledo.cz	LED PRODUCTS	
DHL	SAULA T5	LOGISTICS
Velkoobchodní a logistické centrum EGT Velká Bystřice	SAULA T5	
S.O.K. stavební, s.r.o. Žďárského 196, 674 01 Třebíč, Czech Republic www.sok.cz	SAULA LED LN	PRODUCTION
TLP Kunice - hala D 2	SAULA T5	PRODUCTION
TRÍDIČ, s. r. o. Pískoviště 1663/3, 785 01 Šternberk, Czech Republic www.keestrack.com	SAULA LED	
HANAKOV, spol. s r.o. Pod Košířem 3127/74, 796 03, Prostějov, Česká republika www.hanakov.cz	SAULA LED	
Psychiatrická nemocnice Bohnice Ústavní 91, 181 02 Praha 8, Česká republika www.bohnice.cz	SAULA LED	HOSPITAL

FINLAND

COMPANY	PRODUCTS	INDUSTRY
Energosave oy Itälahdenkatu 23 B, FI 00210 HELSINKI, FINLAND www.energosome.fi	ELUMA LED SAULA LED LN	DISTRIBUTION

SWEEDEN

COMPANY	PRODUCTS	INDUSTRY
Jönköping Airport Fastighets AB 555 93 JÖNKÖPING, Sweden www.jafab.se	SAULA LED LN	AIRPORT

IRELAND

COMPANY	PRODUCTS	INDUSTRY
E. Kavanagh & Sons St Thomas Gate, Thomas St, Waterford, Ireland www.kavanaghslighting.ie	SAULA LED LN	DISTRIBUTION

ESTONIA

COMPANY	PRODUCTS	INDUSTRY
Rimi Eesti Food AS Põrguvälja tee 3, Pildiküla, Rae vald, Harjumaa www.rimi.ee	T8-T5 adaptors	RETAIL
Maxima Eesti OÜ Peterburi tee 47, 11415 Tallinn www.maxima.ee	T8-T5 adaptors	
Smelta OÜ Tööstuse 47, 10416 Tallinn, Estonia www.smelta.com	ALL LED PRODUCTS	DISTRIBUTION
Wendre AS Lina 31, 80041 Pärnumaa, Pärnu www.wendre.ee	SAULA LED LN	PRODUCTION
Loo Metall Linnuka tee 2, Jõelähtme, 74201 Harju maakond info@globen.ee	SAULA LED LN	PRODUCTION
Nataman AS Paljassaare tee 4, 10313 Tallinn www.netaman.ee	SAULA LED LN	PORT
DBT AS Koorma 13, Harjumaa, 74115 Harju www.dbtmuuga.ee	LUMINA LED LN	LOGISTICS

LATVIA

COMPANY	PRODUCTS	INDUSTRY
SIA "RIMI LATVIA" A.Deglava 161, Rīga LV-1021 www.rimi.lv	T8-T5 adaptors	RETAIL
International Exhibition Center Kīpsalas iela 8, Rīga, LV-1048, Latvia www.rigaexpo.lv	ELUMA T5	EXHIBITION CENTER

LATVIA

PROELEKTRO SIA Tallinas str. 13, Rīga, Latvia, LV-1001 www.proelektro.eu	ALL PRODUCTS	DISTRIBUTION
AS "Latvijas Finieris" Bauskas iela 59, LV- 1004 Rīga www.finieris.lv	SAULA LED LN SAULA LED LP ELUMA LED PD	PRODUCTION
Schoeller Allibert SIA Rītausmas street 2, LV-1058 Rīga info.riga@schoellerallibert.com	SAULA LED LN ELUMA LED PD	
VALPRO, SIA L.Laicena iela 2, Valmiera LV- 420 valpro@valpro.lv	SAULA T5	
RAAP, SIA Artiļerijas iela, 48, Rīga, LV-1009 www.raap.lv	ELUMA LED PD	
ALDARIS A/S Rīga, Tvaika iela 44, LV-1005 www.aldaris.lv	ELUMA LED ZL	BREWERY
BAUSKA MUNICIPALITY Uzvaras iela 1, Bauska www.bauska.lv	RADIUS LED	STREETS
ZS Amatnieki Baltinava Baltinavas novads, LV-4594	RAMUNE LED	FARMING

CROATIA

COMPANY	PRODUCTS	INDUSTRY
CALLIGARIS D.O.O. MAKSIMIRSKA 112, 10020 ZAGREB, Croatia www.calligaris.co.uk	SAULA LED LN ELUMA LED PD	PRODUCTION

AUSTRIA

COMPANY	PRODUCTS	INDUSTRY
Telekom Austria Vienna, Austria www.telekomaustria.com	ELUMA LED PD	TELECOMUNICATIONS

Note: This reference list does not include all installations and sales and is only as indicative document to understand in which industries and countries our luminaries are being used.

SLOVENIA



ELBI d.o.o.

Cesta 1. maja 75, 4000 Kranj, Slovenia
Tel. +386 41 321 155
info@elbi.si

SLOVENIA



ERCO I d.o.o.

Žorgova ulica 27, 1231 Ljubljana, Slovenia
Tel. +386 1 750 61 97
info@erco.si

UNITED KINGDOM



FOTOLEC TECHNOLOGIES LTD

5 Baird Way, Thetford, IP24 1JA, UK
Tel. +44 1842 763 752
sales@glassguard.co.uk, www.glassguard.co.uk

ITALY



MANLED LIGHTING s.r.l.

50032 Borgo San Lorenzo, Florence, Italy
Tel. +39 055 8459840
info@manled.it, www.manled.it

AUSTRALIA



Q Industries Pty Ltd

16 Fullarton Drive, VIC 3076 Epping, Australia
Tel. 03 9401 4666
info@qindustries.com.au, www.qindustries.com.au

MACEDONIA



I-Impuls Ltd

TC Beverly Hills 1/11, 1000 Skopje, Macedonia
Tel. +389 2 313 11 13
info@i-impuls.com.mk, www.i-impuls.com.mk

WORLDWIDE PARTNERS

LITHUANIA



USI INTERNATIONAL, UAB

J. Kubiliaus g. 6-2, Vilnius LT-08234, Lithuania
+370 5 243 0300
usi@usi.lt, www.usi.lt

GERMANY



RMBH GmbH

Steinweg 3-5, 91567 Herrieden, Germany
Tel. +49 9825 203829 10
info@rmbh.de, www.rmbh.de

JORDAN



Consolidated Energy & Economic Engineering

Tel. +962 6 4620050
info@cthreee.com, www.cthreee.com

LATVIA



SIA PROELEKTRO

Mazjumpravas iela 32, Rīga, Latvia, LV-1063
Tel. +371 67373718
proelektro@proelektro.lv, www.proelektro.lv

POLAND



INS Ewa Porzych

ul. Reymonta 56, 80-290 Gdańsk, Poland
Tel. +48 58 341 34 19
info@inslighting.pl, www.inslighting.pl

FRANCE



L'ATELIER LUMIERE

123 rue Mac Mahon, 54000 Nancy, France
Tel. +33 3 83351014
contact@atelum.fr, www.atelum.fr

CZECH REPUBLIC



NBB BOHEMIA s.r.o.

40722 Benesov nad Ploucní, Czech Republic
Tel. +420 414 120 560
hotmail@nbb.cz, www.nbb.cz

CZECH REPUBLIC



Lumidee s.r.o.

Svornosti 922/12, 150 00 Praha, Czech Republic
Tel. +420 51591502228
info@lumidee.cz, www.lumidee.cz

ABOUT ECOLIGHT FACTORY

Founded in 2009, the ECOLIGHT factory is situated in the town of Linksmakalnis, central Lithuania. ECOLIGHT is a socially responsible enterprise and a local leader in the employment of people with disabilities. ECOLIGHT LED products are sold worldwide with distributors and partners in over 17 countries.

The ECOLIGHT brand embodies a no-nonsense approach to high performance lighting solutions. An official partner of Philips Lighting, Ecolight employs state-of-the-art technology to manufacture raw-looking industrial grade LED luminaires. Because efficient is the new beautiful. What this means is that we are focused on the essentials of efficient and long lasting heavy-duty lighting, while saving on inessentials like posh design. ECOLIGHT is the go-to brand for cost-savvy suppliers, architects, and contractors looking for high-performance energy-saving LED lighting solutions for architectural, industrial, sports and outdoor environments. All of our luminaires are powered by latest Philips technology, and comply to the standards of European Norms Electrical Certification (ENEC).

In 2015 and 2017 ECOLIGHT together with other fastest-growing and most successful private companies in Lithuania was nominated for the Gazelle Award (Gazelė 2015 and Gazelė 2017).

ECOLIGHT is an ISO 9001, ISO 14001 and OHSAS 18001 certified company.



OUR MISSION AND PHILOSOPHY STATEMENT

We are to make high quality industrial lighting. We believe in simple and reliable solutions. We believe that our products should pay for themselves being more economic and environmentally friendly. We believe in deep collaboration of whole company staff members in every level which allow us to behave in a way that others can't. We don't settle for anything less than the best possible work we can do, and we have the self-honesty to admit when we're wrong and the courage to change. We take social responsibility to employ people with disabilities and help them to become a part of a high standard company.



ELEKTROS TAUPYMO SPRENDIMAI, UAB
Didlaukio str. 94-22, Vilnius 08332, Lithuania
Liepu str. 15, Linksmakalnis, Kaunas distr. 53290, Lithuania
E: info@ecolight.lt T: +370 5 2328207 F: +370 5 2784262
W: www.ecolight.lt, www.ecolight-lights.co.uk

**ISO 9001 - ISO 14001
OHSAS 18001**

**BUREAU VERITAS
Certification**

