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The home of professional lighting











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Commercial Luminaires • Architectural Luminaires • Industrial Luminaires

INTRODUCTION

Dear Valued Customer

It gives us great pleasure to introduce our most innovative and technically advanced product range to date, where the emphasis is on "the quality of light" our fixtures produce.

Our products are more energy efficient and greener than ever, and are designed to add value to all your projects.

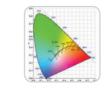
We are deeply indebted to our technology partners and chosen suppliers, without whom, we would not have been able to design light fixtures of the highest quality, in terms of appearance, performance and durability.

ISO/TS 16949:2009

LASCON.

ADDING VALUE THROUGH **INNOVATION**

TECHNICAL INFORMATION





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LASCON SURFACE AND SUSPENDED LUMINAIRES





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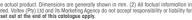
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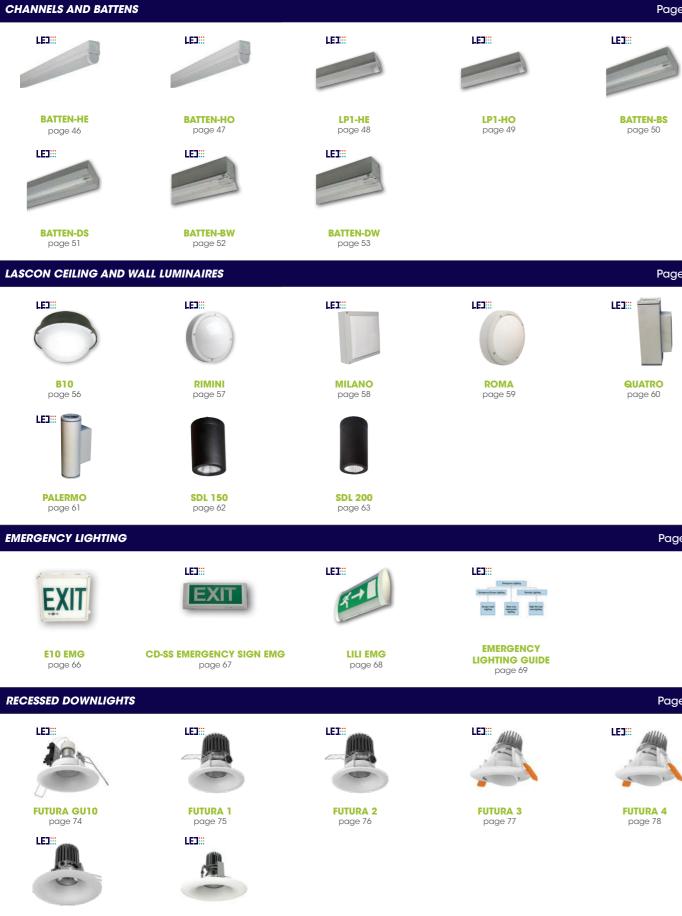
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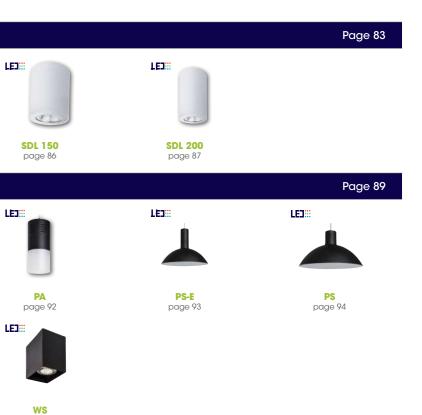
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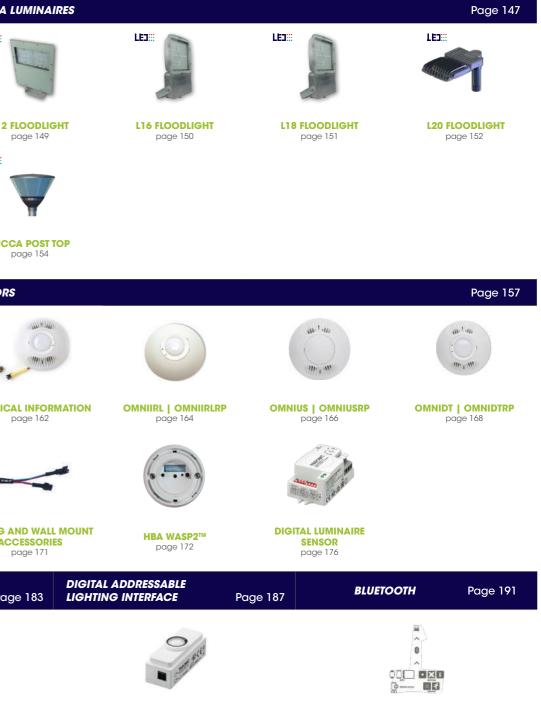


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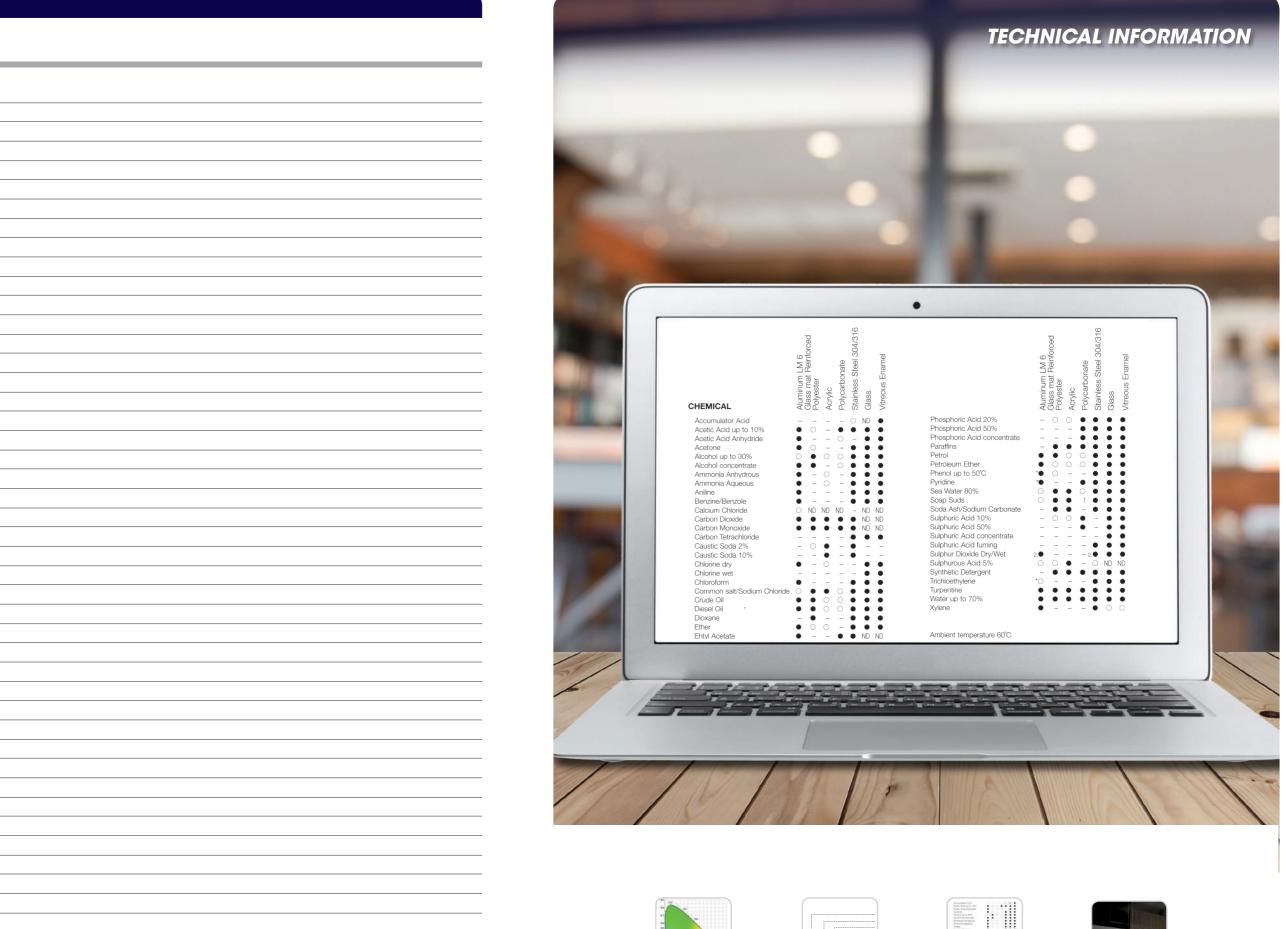
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LASCON[®] TERMINOLOGY

	Safety Class I
	Electrically insulated and earthed. In the event of a basic insulation failure, exposed metal parts that could become live are protected by the earth.
	Suitable for mounting on normally flammable surfaces such as wood. Max surface temp <90°C
ECG	Luminaire is fitted with Electronic control gear
EMG	Luminaire can be fitted with an emergency module
DIM	Luminaire can be fitted with a dimmable ballast
	Ingress Protection
IP20	Protection rating against dust and water (See page 14)
	Lamp Not Included
	Luminaire does not come complete with lamps and should be ordered as a separate item
230V	Operating Voltage

TERMINOLOGY

LASCON[®] LIGHTING TERMS

Colour temperature

Unit of measurement: Kelvin [K]

The colour temperature of a light source is defined in comparison with a "black body radiator" and plotted on what is known as the "Planckian curve". The higher the temperature of this "black body radiator", the greater the blue component in the spectrum and the smaller the red component. An incandescent lamp with a warm white light, for example, has a colour temperature of 2700K whereas a daylight fluorescent lamp has a colour temperature of 6000K.

Light colour

The light colour of a lamp can be neatly defined in terms of colour temperature. There are three main categories here: Warm White < 3300K Cool White 3300K - 5300K Daylight > 5300K Despite having the same light colour, lamps may have very different colour rendering properties owing to the spectral composition of their light.

Colour rendering

As a rule, artificial light should enable the human eye to perceive colours correctly, as it would in natural daylight. Obviously, this depends to some extent on the location and purpose for which light is required.

The criterion here is the colour rendering property of a light source. This is expressed as a "general colour rendering index" (Ra).

The colour rendering index is a measure of the correspondence between the colour of an object (its "self-luminous colour") and its appearance under a reference light source. To determine the Ra values, eight test colours defined in accordance with DIN 6169 are illuminated with the reference light source and the light source under test. The smaller the discrepancy, the better the colour rendering property of the lamp being tested.

A light source with an Ra value of 100 displays all colours exactly as they appear under the reference light source. The lower the Ra value, the worse the colours are rendered.

Luminaire efficiency

Luminaire efficiency (also known as light output ratio) is an important criterion in gauging the energy efficiency of a luminaire. This is the ratio between the luminous flux emitted by the luminaire and the luminous flux of the lamp (or lamps) installed in the luminaire.

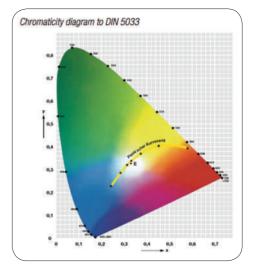
Average life

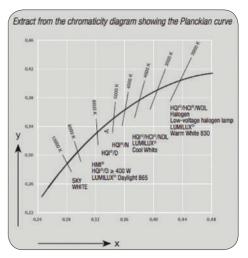
The average life of a lamp is an average of the lives of individual lamps operated under standard conditions (50% failure = average rated life).

Service life

Service life is a simple practical measure of the economical life of a lamp. It is the number of hours of operation after which the system luminous flux (i.e. the product of the relative luminous flux and the relative proportion of lamps still in operation) is around 80% of the initial value.

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Wavelenath

Spectrum of a BIOLUX® fluorescent lamp. The radiation is very evenly distributed over the entire visible range.

LIGHTING TERMS

Glossary of the most important lighting terms

As with any technical or scientific discipline, lighting technology has its own special terms and concepts for defining the characteristics of lamps and fixtures and for standardizing the units of measurement.

The most important terms are described here.

Luminous flux Ø

Unit of measurement: lumen [Im] Luminous flux Ø is all the radiated power emitted by a light source evaluated with the spectral sensitivity of the eye and the photometric radiation equivalent k.

Luminous intensity I

Unit of measurement: candela [cd] Generally speaking, a light source emits its luminous flux Ø in different directions and at different intensities. Luminous intensity is the luminous flux radiated in a particular direction (solid angle Ω).

Illuminance E

Unit of measurement: lux [lx] Illuminance E is the ratio between the luminous flux and the area being illuminated.

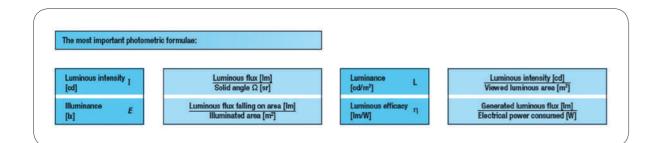
An illuminance of 1 Ix occurs when a luminous flux of 1 Im is evenly distributed over an area of 1m²

Luminance L

Unit of measurement: candela per square meter [cd/m²] The luminance L of a light source or an illuminated area is a measure of the impression of brightness.

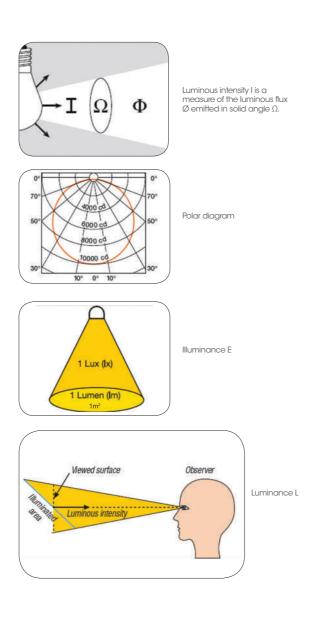
Luminous efficacy n

Unit of measurement: lumen per watt [Im/W] Luminous efficacy n indicates the efficiency with which the electrical power consumed is converted into light.



Light and radiation

Light is taken to mean the electromagnetic radiation that the human eye perceives as brightness. In other words, that part of the spectrum that can be seen. This is the radiation between 380 and 780 nm, a tiny fraction of the known spectrum of electromagnetic radiation.



LASCON[®] LED TECHNOLOGY

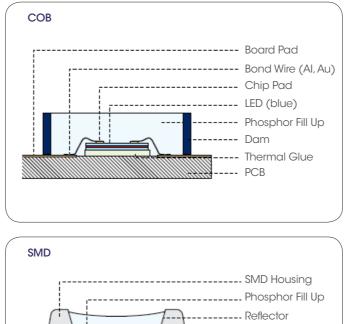
What is an LED

LEDs (Light Emitting Diode) are electronic components which emit light when an electrical current passes through them. This is possible thanks to the optical properties of some semiconductors which emit photons when current is passed through them.

When a group of LEDs are installed on a printed circuit they are known as an LED module.

Chip on board (COB) and Surface mounted device (SMD)

Voltex Lighting use both COB and SMD LED technologies in our luminaire. Typically, SMD is used in our linear luminaires whereas COB is used for LED downlights and floodlights.



Bond Wire LED (blue) . Thermal Glue . SMD Connectors -- Thermal Resistor PCB

Chip on board technology means the different components of the LED (chip, fluorescent converter and wire bond) are built together on the printed circuit board. SMD technology means the different components of the LED are pre-fabricated

The unit is soldered to the printed circuit board as a whole.

LASCON CATALOGUE

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Advantages of LED

- Energy efficient technology
- Instant flicker-free light
- Very low direct thermal output
- No IR or UV radiation in the light
- Constant colour throughout the life of the LED
- Very high luminous efficacy
- Insensitive to vibrations
- Easy disposal at end of life

Lifetime

Lifetime (L value)

LED sources, unlike traditional lighting, do not tend to suddenly fail at the end of their lifetime. LEDs rather have a gradual reduction of their luminous flux overtime before completely running out. This is characterized with the L value

L70 means that the LED module will give 70% of its initial luminous flux. This value is always related to the number of operation hours and therefore defines the lifetime of an LED module

LED life expectancy (B value)

As the L value is a statistical value and the lumen maintenance may vary over the delivered LED modules, a B value defines the amount of modules which are below the specific L value.

L70 B10 means 10% of the LED modules are below 70% of the initial luminous flux and 90% will be above 70% of the initial value

LED failure rate (C value)

In addition, a percentage of failed modules (fatal failure) is characterised by the C value. This value indicates the percentage of LEDs which are no longer operational at the end of their lifetime.

E.a. L70/B10/C0: 50,000 hours - indicates that after 50,000 hours, the percentage of LEDs no longer working is 0%.

Imperfection rate (F value)

The F value is the combination of the B and C value. The F value, followed by a value normally between 10 and 50, provides a more detailed indication of the percentage of components which do NOT maintain their declared luminous flux characteristics (B), also the failure percentage (C) of the LED module.

e.g. L70F10 means 10% of the LED modules may fail or be below 70% of the initial luminous flux

Lumen maintenance

Forward current	tp temperature	L90 / F10	L90 / F50	L80 / F10	L80 / F50	L70/F10	L70 / F50
250 mA	65 °C	23,000 h	35,000 h	49,000 h	>60,000 h	>60,000 h	>60,000 h
300 mA	65 °C	20,000 h	30,000 h	43,000 h	>60,000 h	>60,000 h	>60,000 h
350 mA	65 °C	17,000 h	26,000 h	36,000 h	55,000 h	58,000 h	>60,000 h

LASCON[®] LED TECHNOLOGY

Temperature

Ambient Temperature Ta

When any testing is performed on a product it is for a defined surrounding air temperature. This is the ambient temperature and is designated as Ta. The standard Ta defined for testing is 25°C although testing at any other value is permissible as long as the temperature is declared.

Junction Temperature Tj

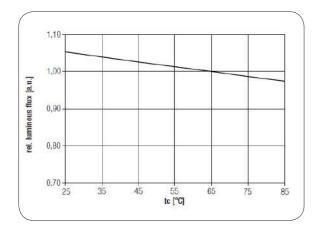
Inside an LED chip is a junction between two materials, one positively charged and one negatively charged. Light is emitted from this junction by the exchange of electrons between the two materials and as a side-effect heat is also generated at the junction. The temperature of the junction needs to be controlled to ensure that the light output and LED lifetime fulfil the requirements for a given application.

It will always be quoted by the luminous flux of our LED luminaires at a Tp temperature of 65°C as a worst-case scenario. Careful attention has been paid to ensure our products do not exceed their maximum permissible reference temperatures.

The Tc / Tp point is situated on the LED PCB and the temperature measured at this point corresponds to the Tj value and makes it possible to predict the behaviour of the LED. The Tc / Tp point is readily accessible with a temperature sensor, thus making readings easy to take.

The Tc and Tp temperature of LED modules from Tridonic are measured at the same reference point.

The below graph shows the luminous flux at 100% at Tc 65°C as stated in our catalogue, however if Tc is below 65°C the luminous flux increa



Colour

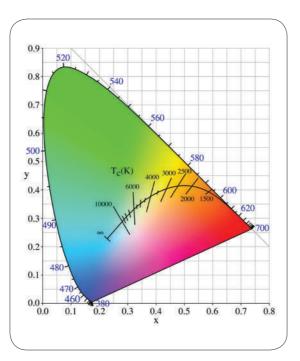
MacAdam Elipse / SDCM

SDCM is an acronym which stands for Standard Deviation Colour Matching. SDCM has the same meaning as a "MacAdam ellipse". A 1-step MacAdam ellipse defines a zone in the CIE 1931 2 deg (xy) colour space within which the human eve cannot discern colour difference. Due to the variable nature of the colour produced by white light LEDs, a convenient metric for expressing the extent of the colour difference within a batch (or bin) or LEDs is the number of SDCM (MacAdam) ellipses steps in the CIE colour space that the LEDs fall into. If the chromaticity coordinates of a set of LEDs all fall within 1 SDCM (or a "1-step MacAdam ellipse"), most people would fail to see any difference in colour. If the colour variation is such that the variation in chromaticity extends to a zone that is twice as big (2 SDCM or a 2-step MacAdam ellipse), you might start to see some colour difference. A 3-step MacAdam ellipse is better than a 4-step zone and so on. All Lascon linear LED luminaires have a 3-step MacAdam.

Colour Shift

As white LEDs age, the colour temperature will slowly change. The colour shift is given as the maximum number of MacAdam elipse the colour will change by.

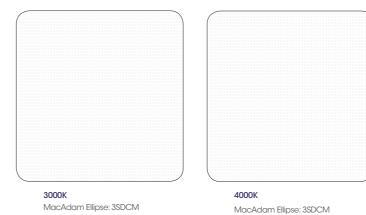
CIE1931 XY chromaticity diagram showing the black body locus (Planckian curve)



THE LIGHT EMITTING DIODE

LASCON[®] LED TECHNOLOGY

All Linear LED luminaires are available in 3000K, 4000K and 5000K



1	^t digit	2 nd + 3 rd digit	4 th digit	5 th digit		6 th digit
Code	CRI	_		McAdam after	Luminous flu of the life-tin	x after 25% ne (max.6000h)
		Colour temperature in	McAdam	25% of the	Code	Luminous flux
7	70 - 79	Kelvin x 100	initial	life-time	7	≥ 70 %
8	80 - 89			(max.6000h)	8	≥ 80 %
9	≥90	1		23	9	≥ 90 %

Standards

IEC EN 62471 - Photobiological Safety (also PD IEC TR 62778)

A North American technical memorandum on projecting long term lumen Light is a form of energy and is capable of causing physical harm. All light sources are classified by RISK GROUP (RG) which indicates how safe the source maintenance of LED light sources. It defines the number of units required is. RG0 and RG1 are completely safe, RG2 is safe as long as nobody stares for testing and how far the results may be safely extended to predict long directly into the light source (glancing briefly at it is safe). No light source for term values. The maximum extension allowed is 6x the real test period, so for a 50,000 hour prediction the real test must have been for 8,333 hours. For a general use should be RG3 (although technically the sun is RG3). The main 100,000 hour prediction the real test must have been for 16,666 hours. hazard from LED is blue light which can cause damage to the retina.

IM79

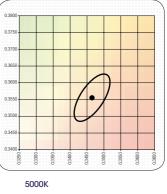
This places restrictions on the use of certain hazardous substances in electrical A North American standard defining how LED luminaires should be measured and electronic equipment. for electrical and photometric characteristics.

LM80

The CE mark shows that a product conforms to the required European A North American standard defining how LED should be measured for lumen directives for placing on the European market. It helps customs and market maintenance characteristics. inspectors in facilitating the free trade and movement of product within Europe. Displaying the CE mark signifies compliance to four main European directives.

LASCON CATALOGUE





MacAdam Ellipse: 3SDCM

Photometric code for all Lascon linear LED luminaires 830/359 840/359 850/359

TM21

RoHS

CE Mark

LASCON[®] INGRESS PROTECTION

In addition to protection against the risk of explosion or ignition, luminaires for The first digit shows the resistance of the luminaire to the entry of solids and the use in hazardous areas will also need to provide adequate protection against second digit the resistance to entry of liquids. the ingress of solids and liquids

The degree of protection is denoted by the IP Classification system.

A two digit number is used to identify the degree of protection afforded by the luminaire against the ingress of solids and liquids.

First Digit Numeral Degree of Protection (foreign bodies) Second Digit Numeral Degree of Protection (liquids) 0 No protection 0 No protection Protected against the ingress of solid objects Protected against dripping water 1 1 greater than 50mm in diameter Protected against the ingress of solid objects Protected against dripping water at an angle of 2 2 greater than 12mm in diameter 15° from the vertical Protected against the ingress of dust in an Protected against spray falling at an angle 60° 3 amount sufficient to interfere with the satisfactory 3 from the vertical operation Protected against the ingress of solid objects Protected against water splashed from any Δ Δ greater than 1,0mm in diameter direction Protected against the ingress of dust in an Protected against water projected by a nozzle 5 amount sufficient to interfere with the satisfactory 5 against the enclosure from any direction operation of the equipment enclosed Dust-tight. Complete protection against the Protected from heavy seas or water projected in 6 6 ingress of dust powerful jets Protected against immersion in water under defined conditions of time and pressure Protected against continuous immersion in water 8

HAZARDOUS AREA LIGHTING

Classification of hazardous areas and locations

What is a hazardous area?

Hazardous locations

Areas are defined as hazardous where a danger of explosion exists owing to the presence, or possible presence, of a potentially explosive atmosphere or or liquids. Care must be taken to ensure that the luminaire is made from dust resulting from the processes or activity undertaken in the immediate or materials which are able to resist the corrosive elements which may be present. surrounding area.

Hazardous areas are "zoned" according to the level of risk.

Classification of explosion protected luminaires

Materials

Luminaires used in hazardous areas will often be exposed to corrosive atmospheres

NOTE : When a luminaire is rated IP66 (water-tight and dust-tight) this does not

imply that it is automatically classified as being dust-ignition and hose-proof.

The tests are quite different as those for ingress protection rating exclude any

tests for surface temperatures.

Equipment Protection Concepts

The design of electrical equipment for use in hazardous areas is based on a number of established engineering concepts which are intended to protect against the possibility of explosion.

These concepts are identified by 'protection symbols".

Flammable Fibres	Flammable Dusts	Flammable Gases
ZONE 0 Continually explosive	ZONE 21 Likely to contain ignitable concentrations in suspension under normal operating conditions	ZONE 21 Likely to be contaminated through handling, manufacture or usage
ZONE 1		
Likely to be explosive under normal operating conditions	ZONE 22 Not likely to contain dust in suspension but where ignitable deposits may create a hazard	ZONE 22 Unlikely to be contaminated since area is used for storage
ZONE 2 Explosive only under abnormal conditions		

LASCON[®] LUMINAIRE CHEMICAL RESISTANCE

Chemical resistance of luminaire materials

Our range of PRO TECTA luminaires are manufactured in a variety of materials each selected as being the best available to withstand attack from known corrosive elements.

The information set out below should be used as part of the final luminaire selection process.

CHEMICAL	Aluminum LM 6 Glass mat Reinforced Polyester Polycarbonate Stainless Steel 304/316 Glass Vitreous Enamel
Accumulator Acid	OND •
Acetic Acid up to 10%	$\bullet \bigcirc - \bullet \bullet \bullet \bullet$
Acetic Acid Anhydride	\bullet \circ - \bullet \bullet
Acetone Alcohol up to 30%	
Alcohol concentrate	
Ammonia Anhydrous	\bullet - \circ - \bullet \bullet
Ammonia Aqueous	\bullet = \bigcirc = \bullet \bullet \bullet
Aniline	\bullet \bullet \bullet \bullet
Benzine/Benzole	$\bullet = = = \bullet \bullet \bullet \bullet$
Calcium Chloride	O ND ND ND - ND ND
Carbon Dioxide	
Carbon Monoxide Carbon Tetrachloride	• • • • ND ND
Caustic Soda 2%	
Caustic Soda 10%	• - •
Chlorine dry	• - 0 • •
Chlorine wet	• •
Chloroform	$\bullet - - \bullet \bullet \bullet \bullet$
Common salt/Sodium Chloride	$\bigcirc \bullet \bullet \bigcirc \bullet \bullet \bullet \bullet$
Crude Oil	$\bullet \bullet \circ \circ \bullet \bullet \bullet$
Diesel Oil -	$\bullet \bullet \circ \circ \bullet \bullet \bullet$
Dioxane Ether	
Ehtyl Acetate	• • • ND ND
* Fluorine dry	
* Fluorine wet	ND
* Glycerine	
Glycol	
Hydrobromic Acid	• •
Hydrochloric Acid 10%	- 0 0 • - • •
Hydrochloric Acid 30%	- 0 0 • - • •
Hydrochloric Acid 96%	0 - • •
Hydrogen Peroxide 30% Hydrogen Peroxide over 80%	
* Hydrogen Sulphide	$\bullet = \bullet = \bullet = \bullet$
*§Hydrofluoric Acid 40%	
*§Hydrofluoric Acid 70%	
Lysol	• • • •
Maleic Acid	$\bullet \bullet \bullet \bullet$
Metal Salts (Iron Oxide, Zinc Oxide	
and their aqueous solutions	
Methanol Methanol Agueous	$\bullet \bullet = \bigcirc \bullet \bullet \bullet$
Methanol Aqueous Methylene Chloride	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Milk of Lime	
Nitric Acid 10%	
Nitric Acid concentrate	• • •
Nitric Aid furning	• • •
	\bullet \circ \bullet \bullet

LASCON CATALOGUE

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	Aluminum LM 6 Glass mat Reinforced Polyester Acrylic Polycarbonate Stainless Steel 304/316 Glass Vitreous Enamel
	704/
	6 1 3(
	LM 6 nate steel 30. namel
	Aluminum LM 6 Glass mat Reinfi Polyester Acrylic Polycarbonate Stainless Steel 3 Glass Vitreous Enamel
	Aluminum Glass mat Polyester Acrylic Polycarboi Stainless S Glass Vitreous El
	imii iyysi iyysi iss iss eo
	Alumii Glass Polye Polyc Staink Glass Vitreo
Phosphoric Acid 20%	
Phosphoric Acid 50%	
Phosphoric Acid concentrate	• • • •
Paraffins	- • • • • • •
Petrol	$\bullet \bullet \circ \circ \bullet \bullet \bullet$
Petroleum Ether	$\bullet \ \bigcirc \ \bigcirc \ \bigcirc \ \bullet \ \bullet \ \bullet \ \bullet$
Phenol up to 50°C	*• • • • • •
Pyridine	
Sea Water 80% Soap Suds	
Soda Ash/Sodium Carbonate	
Sulphuric Acid 10%	- 0 0 • - • •
Sulphuric Acid 50%	• - • •
Sulphuric Acid concentrate	• •
Sulphuric Acid furning	• • •
Sulphur Dioxide Dry/Wet	
Sulphurous Acid 5% Synthetic Detergent	
Trichloethylene	*
Turpentine	
Water up to 70%	
Xylene	\bullet \bullet \circ \circ
Ambient temperature 60°C	
 Resistant 	
 Resistant within limits 	
 Not resistant 	insaturated
! Resistant when saturated, resi	stant within limits when unsaturated
§ Mild attack – aqueous 1% & 5	% at ambient temperature
§ Water – accelerates corrosion	tont
 § at 40°C – Butyl Rubber is resis § at 70°C – Butyl Rubber is not r 	
* Coat glass with "Clear Shield"	esistant
ND No data	
1. Varies with agitation and presence	e of Nitrogen Oxide
2. Alum/SS304: Not resistant when	Sulphur Dioxide is wet
NOTES	Chloride Hydrocarbons
Aqueous – with water content in %	Carbon Tetrachloride
Anhydrous – free of water Anhydride – crystallized	Trichloethylene Methylene Chloride
Hydrocarbons:	Aromatic Hydrocarbons
Paraffins	Aniline
Ethyl Acetate	Benzine
Pyridine	Benzine derivates (extractions)

LASCON[®] RELUX CAPABILITY

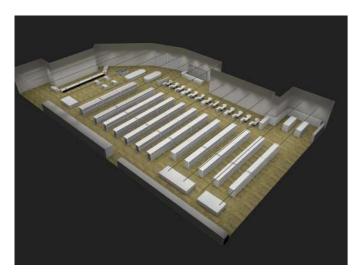
LASCON's professional lighting design team provides realistic 3D simulations for various projects from functional and aesthetic down to technical design. We are capable of architectural, landscape, outdoor and indoor application designs.

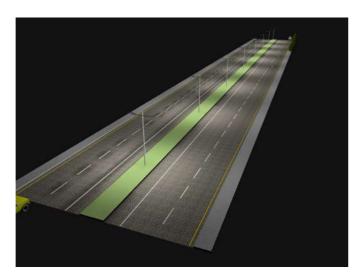
Using the most up-to-date simulation software, LASCON is able to generate realistic lighting designs to visualise exactly what the luminaire lighting distribution will look like in real life. This includes accurate lighting analysis calculations with a continuous focus on energy efficiency and luminaire efficacy.

Using Relux we are able to repeat photometric parameters for the assessment of a lighting installation. Relux is continuously being developed further to adapt to current standards and market requirements.







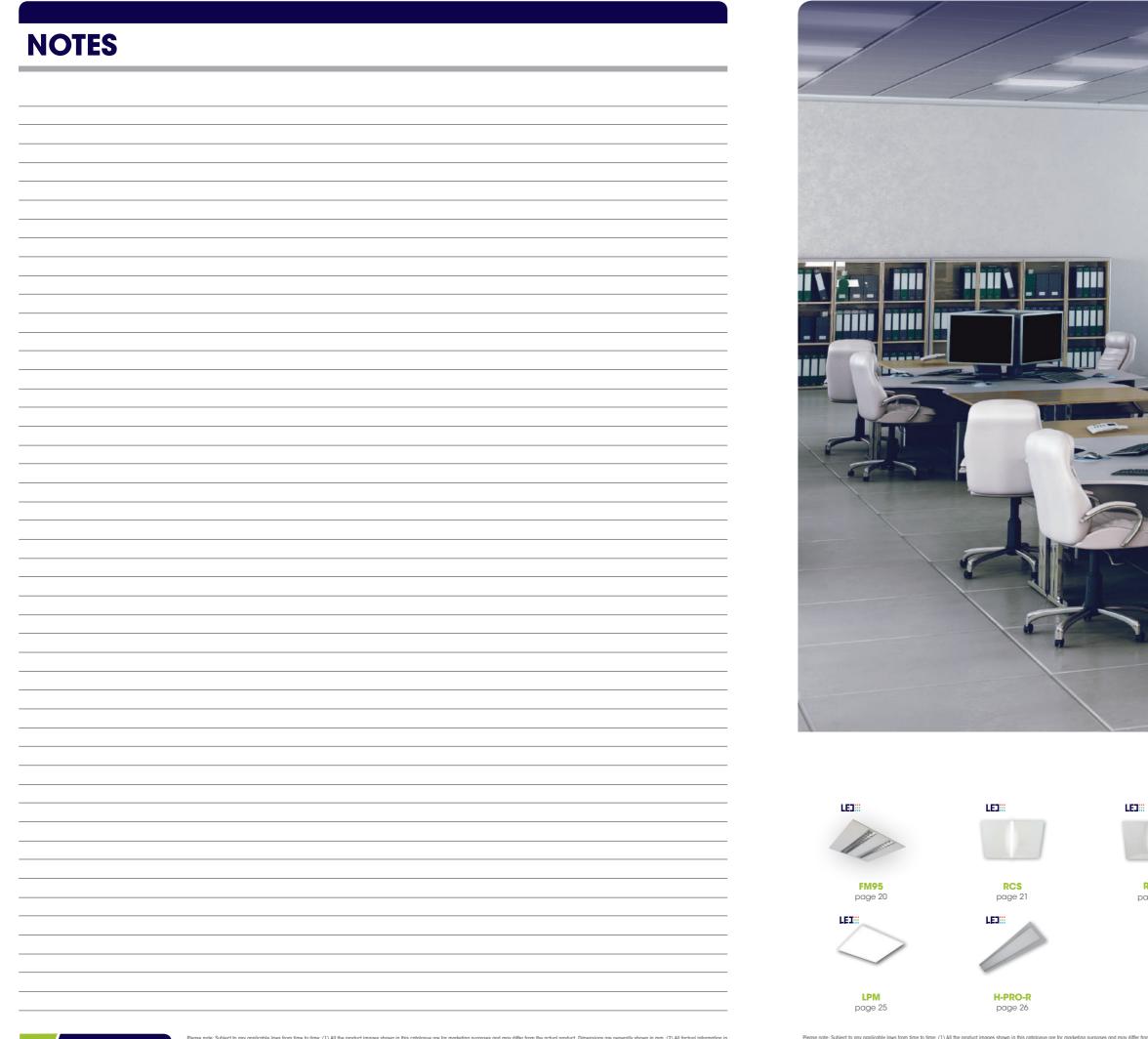


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LASCON CATALOGUE





RCC page 22



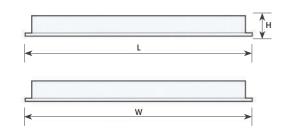
RCM page 23



LPB page 24

LASCON[®] FM95 LE3...





Life/N	laintenance
LED Driver Average Rated Life	100 000hrs
LED Life	> 60 000hrs (L80 F10, TP 45°C)

	Applications
Offices	Healthcare
Retail stores	Meeting rooms

	Benefits	
• 5 year warranty	Built-in surge protection	

Lumen @

45°C

4530

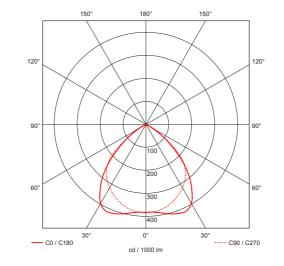
6080

Specification

FM95-24W-LED

FM95-34W-LED

LASCON CATALOGUE



Photometric Diagram

Luminaire efficiency: 82.05%

Product Features and Accessories

Colour temperature 4000K (3000K and 5000K on request)

The louvre is fixed to the body by means of four spring clips

Rolled mild steel body with a white epoxy powder coated finish

Dimensions

W

597mm

597mm

Н

53mm

53mm

Easily removable in-fill panels to access the driver

1520G3 anti-iridescent matt aluminium louvre

Complete with 3m cabtyre and 5 Amp plug

DALI/DSI and dimmable options available

High colour rendering index CRI > 80

• Small colour tolerance - MacAdam 3

Ambient temperature: -25...+45°C

Tridonic LED module and driver

Emergency options available

L

597mm

597mm

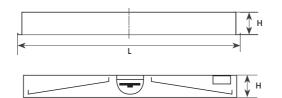
Current

275mA

375mA

RECESSED LUMINAIRES

LASCON[®] RCS LEI



Life/N	Naintenance
LED Driver Average Rated Life	100 000hrs
LED Life	> 60 000hrs (L80 F10, TP 45°C)

	Applications
Retail stores	 Laboratories
Lecture halls	Commerce

	Benefits	
• 5 year warranty	Built-in surge protection	

Specification	Lumen @	System	Power	Current		Dimensions		Weight
specification	45°C	Power	Factor		L	W	н	weigin
RCS-18W-LED	3255	19.9W	0.98	400mA	597mm	597mm	60mm	5.6kg
RCS-24W-LED	4530	26.9W	0.98	275mA	1197mm	597mm	60mm	9.5kg
RCS-34W-LED	6080	37.3W	0.98	375mA	1197mm	597mm	60mm	9.5kg
RCS-44W-LED	7490	48.3W	0.98	325mA	1197mm	597mm	60mm	9kg
RCS-55W-LED	9070	60.4W	0.98	400mA	1197mm	597mm	60mm	9kg

SABS APPROVED 230V EMG DIM **IP20**

Weight

3.0kg

3.0kg







System

Power

26.9W

37.3W

Power

Factor

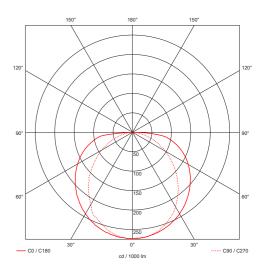
0.98

0.98



recover nore: subject to any applicable laws from time to time: (1) All the product images shown in this catalogue are for marketing purposes and may differ from the actual product. Dimensions are generally shown in mm. (2) All factual information in this catalogue was correct at the time of going to print and is subject to change without prior notice. Minimum quantity orders may apply. Errors and Omissions Excepted. Value: (Ph) Ltd and its Marketing Agency do not accept responsibility or liability for any incorrect listing of any merchandise or information. Voltex Terms & Conditions of Sale which can be found at www.voltex.co.za and the Disclaimer which is set out at the end of this catalogue apply.

Photometric Diagram



Luminaire efficiency: 85.58%

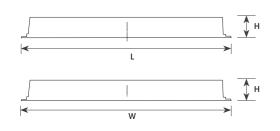
- High colour rendering index CRI > 80
- Colour temperature 4000K (3000K and 5000K on request)
- Small colour tolerance MacAdam 3
- Tridonic LED module and driver
- Ambient temperature: -25...+45°C
- Rolled mild steel body with a matt white epoxy powder coated finish
- Rolled mild steel back reflectors with a matt white epoxy powder coated finish
- High transmission optic hides the LEDs
- DALI/DSI and dimmable options available
- Emergency options available
- Direct replacement for 3x18W and 3x36W T8



RECESSED LUMINAIRES

RECESSED LUMINAIRES

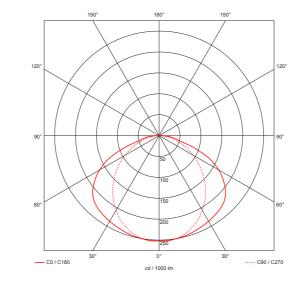




Life/M	laintenance
LED Driver Average Rated Life	100 000hrs
LED Life	> 60 000hrs (L80 F10, TP 45°C)

	Applications
• Offices	Lecture halls
• Hospitals	Retail stores

	Benefits	
5 year warranty	Built-in surge protection)

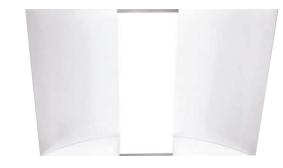


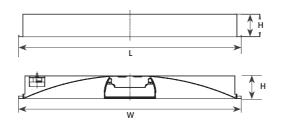
Photometric Diagram

Luminaire efficiency: 79.7%

	Product Features and Accessories
,	High colour rendering index CRI > 80
•	Colour temperature 4000K (3000K and 5000K on request)
•	Small colour tolerance - MacAdam 3
•	Tridonic LED module and driver
•	Ambient temperature: -25+45°C
•	Rolled mild steel body with a matt white epoxy powder coated finish
•	Rolled mild steel back reflectors with a matt white epoxy powder
	coated finish
•	High transmission optic hides the LEDs
•	DALI/DSI and dimmable options available
•	Emergency options available
•	Matt white infill panels for 1200 x 600 ceiling grid available

Specification	Lumen @	System	Power Current Factor	Dimensions			Weight	
opeometailon	45°C	Power		L	W	н	Weigin	
RCC-27W-LED	4910	32.1W	0.98	300mA	597mm	597mm	61mm	5.6kg
RCC-36W-LED	6510	39.9W	0.98	400mA	597mm	597mm	61mm	5.6kg





Life/Maintenance						
LED Driver Average Rated Life	100 000hrs					
LED Life	> 60 000hrs (L80 F10,TP 45°C)					

		Applications
•	Offices	Lecture halls
	Hospitals	Retail stores

	Benefits	
• 5 year warranty	Built-in surge protection	

Specification	Lumen @	System	Power Current	Dimensions			Weight	
	45°C	Power		L	W	н	Weight	
RCM-22W-LED	4190	24.3W	0.98	250mA	597mm	597mm	61mm	5.6kg
RCM-34W-LED	6080	37.3W	0.98	375mA	597mm	597mm	61mm	5.6kg

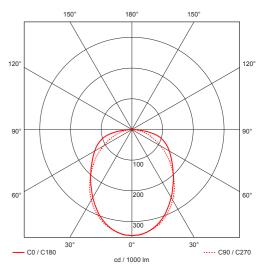






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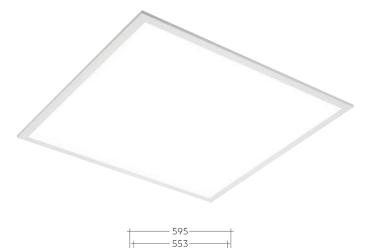
Photometric Diagram

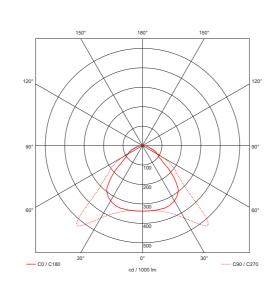
Luminaire efficiency: 87.41%

- High colour rendering index CRI > 80
- Colour temperature 4000K (3000K and 5000K on request)
- Small colour tolerance MacAdam 3
- Tridonic LED module and driver
- Ambient temperature: -25...+45°C
- Rolled mild steel body with a matt white epoxy powder coated finish
- Rolled mild steel back reflectors with a matt white epoxy powder coated finish
- High transmission optic hides the LEDs
- DALI/DSI and dimmable options available
- Emergency options available
- Matt white infill panels for 1200 x 600 ceiling grid available



LASCON[®] LPB LEI



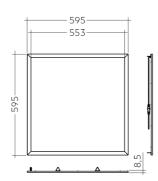


Photometric Diagram

Luminaire efficiency: 100%



LASCON[®] LPM LEJ...



Life/Mair	ntenance
LED Driver Average Rated Life	50 000hrs
LED Life	46 000hrs (L70 F10, TP 45°C)

		Applications
•	Offices	• Retail
	Healthcare	Educational facilities

	Benefits	
5 year warranty	Built-in surge protection	

Specification	Lumen @	System	Power	Power Current	Dimensions			Weight	
	45°C	Power	Factor	Guilein	L	W	н	Meight	
LPM-32W-LED-4K	3800	36.3W	0.98	800mA	595mm	595mm	8.5mm	2.5kg	
LPM-32W-LED-3K	3550	36.3W	0.98	800mA	595mm	595mm	8.5mm	2.5kg	



- 553-

Life/Mair	ntenance
LED Driver Average Rated Life	50 000hrs
LED Life	46 000hrs (L70 F10, TP 45°C)

	Applications
Offices	• Retail
• Healthcare	Educational facilities

	Benefits
5 year warranty	Built-in surge protection

Product Features and Accessories
High colour rendering index CRI > 80
Colour temperature 4000K or 3000K
Ambient temperature: -20+40°C
5 Year warranty
3m cabtyre and 5 Amp plug (available on request)
Ideal retrofit solution for ceilings up to 3.5m
Ripple current 5%
Honeycomb optic

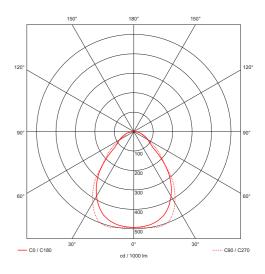
Specification	Lumen @	System	Power	wer Current	Power Current Dimensions				Weight
opeeniednon	45°C	Power Factor		Factor	L	W	Н	Weight	
LPB-32W-LED-4K	3800	36.3W	0.98	800mA	595mm	595mm	8.5mm	2.5kg	
LPB-32W-LED-3K	3550	36.3W	0.98	800mA	595mm	595mm	8.5mm	2.5kg	



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Photometric Diagram

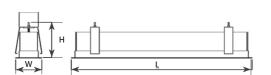


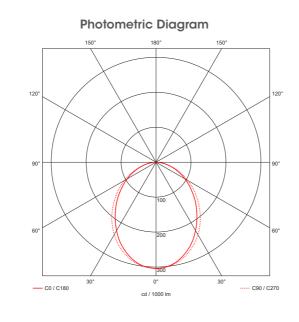
Luminaire efficiency: 100%

- High colour rendering index CRI > 80
- Colour temperature 4000K or 3000K
- Ambient temperature: -20...+40°C
- 5 Year warranty
- 3m cabtyre and 5 Amp plug (available on request)
- Ideal retrofit solution for high ceilings
- Ripple current 5%
- Microprism optic

LASCON[®] H-PRO-R LEJ







Luminaire efficiency: 73.6%

Life/N	laintenance
LED Driver Average Rated Life	100 000hrs
LED Life	> 60 000hrs (L80 F10,TP 45°C)

Applications					
Retail stores	Lecture halls				
• Offices	Reception areas				

	Benefits	
5 year warranty	Built-in surge protection	

Product Features and Accessories
High colour rendering index CRI > 80
Colour temperature 4000K (3000K on request)
Small colour tolerance - MacAdam 3
Tridonic LED module and driver
Ambient temperature: -25+45°C
Recessed luminaire
Frosted acrylic diffuser
Extruded aluminium body
Available in matte back, white, white aluminium
DALI/DSI and dimmable options available
Emergency options available
Custom lengths to order
Available in standard 600mm, 1200mm, 1800mm, 2400mm
Multiple wattage and lumen packages available

Specification	Lumen @	System	Power	Current	rrent Cut Out	Dimensions			Weight
opeonication	45°C	Power	Factor	Guiletti		L	W	н	morgrin
H-PROFILE-R-12W- LED-600	2265	13.5W	0.98	275mA	590mm x 80mm	610mm	92mm	90mm	0.65kg
H-PROFILE-R-24W- LED-1200	4530	26.9W	0.98	275mA	1150mm x 80mm	1170mm	92mm	90mm	1.3kg
H-PROFILE-R-36W- LED-1800	6795	40.4W	0.98	275mA	1780mm x 80mm	1800mm	92mm	90mm	1.95kg
H-PROFILE-R-48W- LED-2400	9060	53.8W	0.98	275mA	2412mm x 80mm	2433mm	92mm	90mm	2.6kg



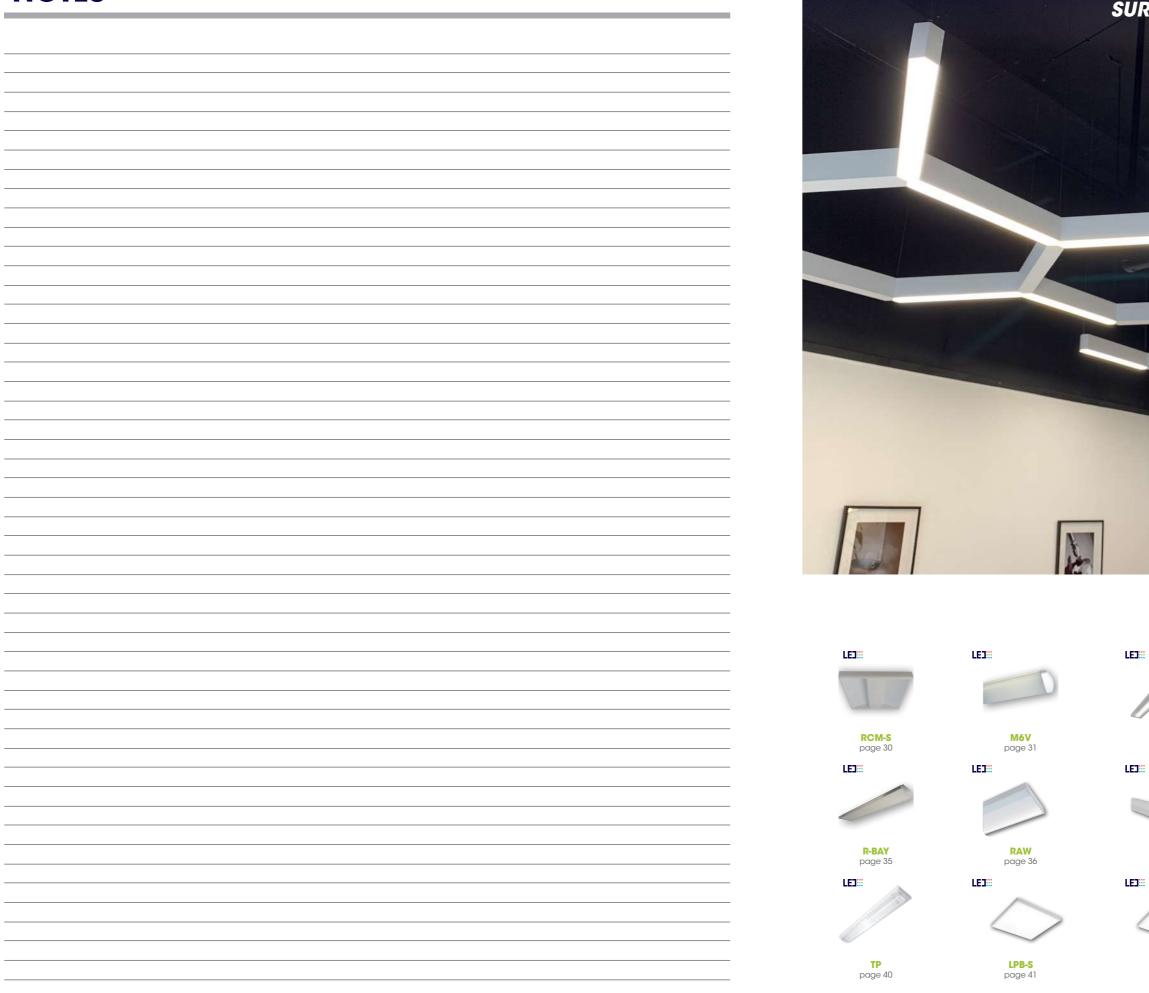


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SL95 page 32







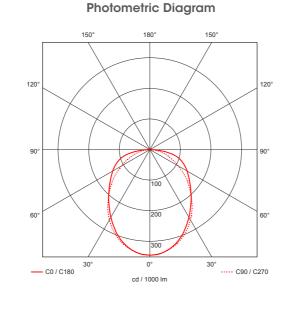


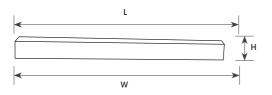
LEJ **SL95-S** page 33 LEJ U-PRO-S page 38

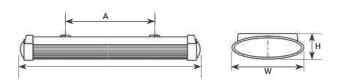


LASCON[®] RCM-S LEJ...









Life/Maintenance				
LED Driver Average Rated Life	100 000hrs			
LED Life	> 60 000hrs (L80 F10, TP 45°C)			

		Applications
•	Kitchens	Passages
	Storage rooms	Schools

	Benefits	
• 5 year warranty	Built-in surge protection	

Specification	Lumen @	System	Power	Current	Current		Dime	nsions		Weight
specification	45°C	Power	Factor		L	А	W	н	weigin	
M6V-24W-LED	4530	26.9W	0.98	300mA	683mm	460mm	208mm	77mm	2.0kg	
M6V-36W-LED	6510	39.9W	0.98	400mA	683mm	460mm	208mm	77mm	2.0kg	
M6V-46W-LED	7790	49.6W	0.98	250mA	1250mm	800mm	208mm	77mm	3.0kg	
M6V-54W-LED	9315	60.3W	0.98	300mA	1250mm	800mm	208mm	77mm	3.0kg	

SABS APPROVED EMG DIM **IP20** 230V

Life/Maintenance LED Driver Average Rated Life 100 000hrs LED Life > 60 000hrs (L80 F10, TP 45°C)

	Applications	
• Offices	Lecture halls	
• Hospitals	Retail stores	

	Benefits
• 5 year warranty	Built-in surge protection

Product Features and Accessories
High colour rendering index CRI > 80
Colour temperature 4000K (3000K and 5000K on request)
Small colour tolerance - MacAdam 3
Tridonic LED module and driver
Ambient temperature: -25+45°C
Surface mount
Rolled mild steel body with a matt white epoxy powder coated finish
Rolled mild steel back reflectors with a matt white epoxy powder
coated finish
High transmission optic hides the LEDs
DALI/DSI and dimmable options available
Emergency options available

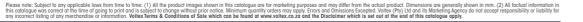
Specification	Lumen @	System	Power	Current		Dimensions		Weight
opcomounon	45°C	Power	Factor	Cullent	L	w	н	Weight
RCM-S-22W-LED	4190	24.3W	0.98	250mA	597mm	597mm	61mm	5.6kg
RCM-S-34W-LED	6080	37.3W	0.98	375mA	597mm	597mm	61mm	5.6kg



LASCON CATALOGUE



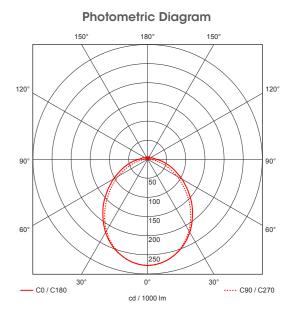




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LASCON[®] M6V LEI



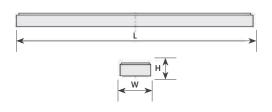


- High colour rendering index CRI > 80
- Colour temperature 4000K (3000K and 5000K on request)
- Small colour tolerance MacAdam 3
- Tridonic LED module and driver
- Ambient temperature: -25...+45°C
- Rolled mild steel body with a white epoxy powder coated finish
- Snap-on injection moulded plastic end-caps
- Frosted prismatic diffuser
- Individual mounting and continuous row mounting (mid cap assembly ordered separately)
- DALI/DSI and dimmable options available
- Emergency options available



LASCON[®] SL95 LE3...





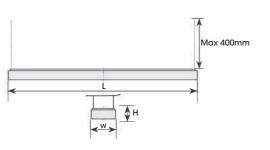
	150°	180°	150°	
120°	\langle		$\langle \rangle$	120°
90°		100		90°
60°		200	X	60°
C0 / C1	30° 80	0° cd / 1000 lm	30° C9	0 / C270

Photometric Diagram

Luminaire efficiency: 77.34%

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		I.	

LASCON[®] SL95-S LEI



Life/N	Maintenance
LED Driver Average Rated Life	100 000hrs
LED Life	> 60 000hrs (L80 F10, TP 45°C)

		Applications
•	Offices	Reception areas
(.	Passages	Study halls

	Benefits
• 5 year warranty	Built-in surge protection

Specification	Lumen @	System	Power	Current	Dimensions		Dimensions			Weight
specification	45°C	Power	Factor	Culleni	L	w	Н	roigin		
SL95-S-24W-LED	4530	26.9W	0.98	275mA	1260mm	175mm	53mm	4.4kg		
SL95-S-34W-LED	6080	37.3W	0.98	375mA	1260mm	175mm	53mm	4.4kg		

SABS	IP20	230V	EMG	DIM	F	Ľ	
------	------	------	-----	-----	---	---	--

Life/Maintenance					
LED Driver Average Rated Life	100 000hrs				
LED Life	> 60 000hrs (L80 F10, TP 45°C)				

		Applications
	Offices	Reception areas
(.	Passages	Study halls

(Benefits
(5 year warranty	Built-in surge protection

High colour rendering index CRI > 80
Colour temperature 4000K (3000K and 5000K on request)
Small colour tolerance - MacAdam 3
Tridonic LED module and driver
Ambient temperature: -25+45°C
Rolled mild steel body with a structured silver or matt white epoxy
powder coated finish
1520G3 anti-iridescent matt aluminium louvre
DALI/DSI and dimmable options available
Emergency options available

Product Features and Accessories

Specification	Lumen @	System	Power	Current	Dimensions		Dimensions			Weight
specification	45°C	Power Fact	Factor	Canon	L	w	Н	molgrill		
SL95-24W-LED	4530	26.9W	0.98	275mA	1260mm	175mm	53mm	4.4kg		
SL95-34W-LED	6080	37.3W	0.98	375mA	1260mm	175mm	53mm	4.4kg		



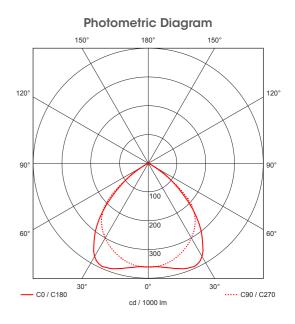
LASCON CATALOGUE







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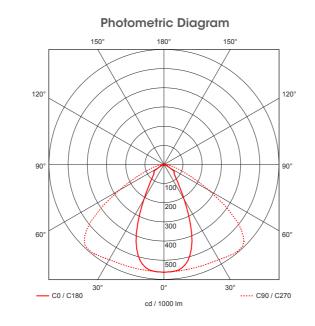


- High colour rendering index CRI > 80
- Colour temperature 4000K (3000K and 5000K on request)
- Small colour tolerance MacAdam 3
- Tridonic LED module and driver
- Ambient temperature: -25...+45°C
- Rolled mild steel body with a structured silver epoxy powder coated finish
- Suspension cables supplied separately
- 1520G3 anti-iridescent matt aluminium louvre
- DALI/DSI and dimmable options available
- Emergency options available



LASCON[®] RAIL LEJ...

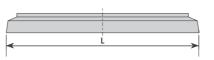


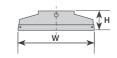


Luminaire efficiency: 92.74%



LASCON[®] R-BAY LEJ





Life/Maintenance						
LED Driver Average Rated Life	100 000hrs					
LED Life	> 60 000hrs (L80 F10,TP 45°C)					

		Applications
•	Retail stores	Food stores
•	Hypermarkets	Furniture stores

	Benefits
• 5 year warranty	Built-in surge protection

Specification	n Lumen @ System					Current		Weight	
specification	45°C	Power	r Factor	Factor	L	w	Н	Weigin	
R-BAY-68W-LED	12 160	74.6W	0.98	375mA	1195mm	240mm	105mm	4.0kg	
R-BAY-110W-LED	18 140	120.8W	0.98	400mA	1195mm	240mm	105mm	4.0kg	

SABS EMG OPTION DIM IP20 230V

Life/Maintenance LED Driver Average Rated Life 100 000hrs LED Life > 60 000hrs (L80 F10, TP 45°C)

1		Applications	
	Supermarkets	Sports halls	
	• Aisle lighting	Warehouses	_

	Benefits
5 year warranty	Built-in surge protection

Pioduci rediules and Accessories
High colour rendering index CRI > 80
Colour temperature 4000K (3000K and 5000K on request)
Small colour tolerance - MacAdam 3
Tridonic LED module and driver
Ambient temperature: -25+45°C
Single mount or continuous row lighting
Supplied with fish plates for continuous row lighting
End-caps ordered separately
Suitable for mounting on trunking
Rolled mild steel body with a grey epoxy powder coated finish (white
body available on request)
DALI/DSI and dimmable options available
Emergency options available
High efficiency and high output versions

int Engl

Specification	Lumen @	System	Power	Current	Dimensions			Weight
opeemeenen	45°C	Power	Factor	Canoni	L	W	н	noigin
RAIL-36W-LED	6510	39.9W	0.98	400mA	1225mm	150mm	72mm	4.0kg
RAIL-55W-LED	9070	60.4W	0.98	400mA	1225mm	150mm	72mm	4.0kg



LASCON CATALOGUE

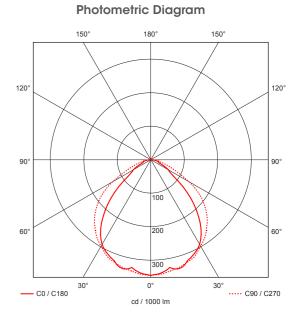




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Luminaire efficiency: 80.37%

- High colour rendering index CRI > 80
- Colour temperature 4000K (3000K and 5000K on request)
- Small colour tolerance MacAdam 3
- Tridonic LED module and driver
- Ambient temperature: -25...+45°C
- Designed for quick and easy installations, it comes complete with 2 x P2000 mounting brackets and 4 x M5 eyebolts
- Rolled mild steel body with a structured silver epoxy powder coated finish
- Complete with 3m cabtyre and 5 Amp plug
- Complete with decorative diffuser
- DALI/DSI and dimmable options available
- Emergency options available
- High efficiency and high output versions

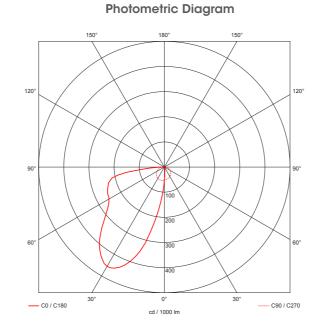


LASCON[®] RAW LEI

SURFACE AND SUSPENDED LUMINAIRES

LASCON[®] RAN LEI





Luminaire efficiency: 66.4%





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Life/N	laintenance
LED Driver Average Rated Life	100 000hrs
LED Life	> 60 000hrs (L80 F10, TP 45°C)

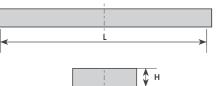
		Applications
•	Retail stores	Food stores
	Fashion stores	Lecture rooms

	Benefits
• 5 year warranty	Built-in surge protection

Specification	Lumen @	System	Power Current		Dimensions			Weight
opeemeenen	45°C	Power	Factor	Culleni	L	w	н	Weigin
RAN-22W-LED W-LED	4190	24.3W	0.98	250mA	1130mm	80mm	30mm	1.5kg
RAN-34W-LED W-LED	6080	37.3W	0.98	375mA	1130mm	80mm	30mm	1.5kg



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Life/N	laintenance
LED Driver Average Rated Life	100 000hrs
LED Life	> 60 000hrs (L80 F10, TP 45°C)

(Applications					
	•	Retail stores	•	Food stores		
	•	Fashion stores	•	Lecture rooms		

		Benefits
• 5 year v	warranty	Built-in surge protection

Product Features and Accessories	
----------------------------------	--

- High colour rendering index CRI > 80
- Colour temperature 4000K (3000K and 5000K on request)
- Small colour tolerance MacAdam 3
- Tridonic LED module and driver
- Ambient temperature: -25...+45°C
- Provides uniform illumination of the vertical surface from the ceiling
- Can be surface mounted or recessed
- Polished anodized aluminium high performance reflector
- Optic hides the LEDs
- Rolled mild steel body with a grey epoxy powder coated finish (white body available on request)
- DALI/DSI and dimmable options available

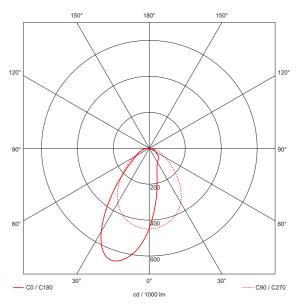
Specification	Lumen @	System	Power	Current		Dimensions		Weight
	45°C	Power	Factor	Canom	L	W	н	
RAW-22W-LED	4190	24.3W	0.98	250mA	1191mm	191mm	60mm	3.2kg
RAW-34W-LED	6080	37.3W	0.98	375mA	1191mm	191mm	60mm	3.2kg







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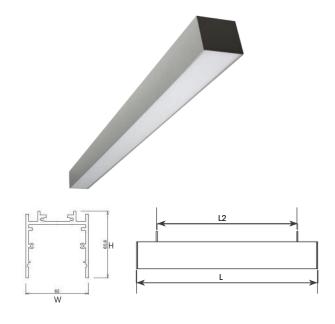
Photometric Diagram

Luminaire efficiency: 96%

- High colour rendering index CRI > 80
- Colour temperature 4000K (3000K and 5000K on request)
- Small colour tolerance MacAdam 3
- Tridonic LED module and driver
- Ambient temperature: -25...+45°C
- Provides uniform illumination of the vertical surface from the ceiling
- Optic hides the LEDs
- Rolled mild steel body with a white epoxy powder coated finish (silver body available on request)
- DALI/DSI and dimmable options available



LASCON[®] U-PRO-S LEI



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	X		\times	
120°		+		120°
	\square			\times
	\times λ	+	X	
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				\times
60°		200	λ	60°
	\checkmark			
		300		
— C0 / C180	80°	0°	30°	C90 / C270
		cd / 1000 lm		

Photometric Diagram

Luminaire efficiency: 73.6%

Life/Maintenance							
LED Driver Average Rated Life	100 000hrs						
LED Life	> 60 000hrs (L80 F10, TP 45°C)						

	Applications	
Retail stores	Lecture halls	
Offices	Reception areas	

Benefits					
• 5 year warranty	Built-in surge protection				

Product reditires and Accessories
High colour rendering index CRI > 80
Colour temperature 4000K (3000K and 5000K on request)
Small colour tolerance - MacAdam 3
Tridonic LED module and driver
Ambient temperature: -25+45°C
Surface or suspended luminaire
Frosted acrylic diffuser
Extruded aluminium body
Available in matt black, white, white aluminium
DALI/DSI and dimmable options available
Emergency options available
Custom lengths to order
Available in standard 600mm, 1200mm, 1800mm, 2400mm
Multiple wattage and lumen packages available

Specification	Lumen @	System	Power	Current		Dimer	nsions		Weight
	45°C	Power	Factor	Cunem	L	L2	w	н	weigin
U-PROFILE-S-12W- LED-600	2265	13.5W	0.98	275mA	580mm	530mm	62mm	66mm	0.65kg
U-PROFILE-S-24W- LED-1200	4530	36.9W	0.98	275mA	1140mm	1090mm	62mm	66mm	1.3kg
U-PROFILE-S-36W- LED-1800	6795	40.4W	0.98	275mA	1770mm	1720mm	62mm	66mm	1.95kg
U-PROFILE-S-48W- LED-2400	9060	53.8W	0.98	275mA	2400mm	2350mm	62mm	66mm	2.6kg





Life/N	laintenance
LED Driver Average Rated Life	100 000hrs
LED Life	> 60 000hrs (L80 F10,TP 45°C)

Applications					
Retail stores	Lecture halls				
• Offices	Reception areas				

	Benefits	
• 5 year warranty	Built-in surge protection	

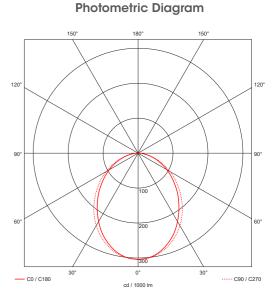
Specification	Lumen @	System	Power	Current		Dimer	nsions		Weight
opecilication	45°C	Power	Factor	Culleni	L	L2	W	н	Weigini
H-PROFILE-S-12W- LED-600	2265	13.5W	0.98	275mA	580mm	530mm	62mm	90mm	0.65kg
H-PROFILE-S-24W- LED-1200	4530	36.9W	0.98	275mA	1140mm	1090mm	62mm	90mm	1.3kg
H-PROFILE-S-36W- LED-1800	6795	40.4W	0.98	275mA	1770mm	1720mm	62mm	90mm	1.95kg
H-PROFILE-S-48W- LED-2400	9060	53.8W	0.98	275mA	2400mm	2350mm	62mm	90mm	2.6kg



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LASCON[®] H-PRO-S LEI

LASCON CATALOGUE



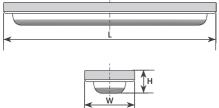


- High colour rendering index CRI > 80
- Colour temperature 4000K (3000K and 5000K on request)
- Small colour tolerance MacAdam 3
- Tridonic LED module and driver
- Ambient temperature: -25...+45°C
- Surface or suspended luminaire
- Frosted acrylic diffuser
- Extruded aluminium body
- Available in matt black, white, white aluminium
- DALI/DSI and dimmable options available
- Emergency options available
- Custom lengths to order
- Available in standard 600mm, 1200mm, 1800mm, 2400mm
- Multiple wattage and lumen packages available

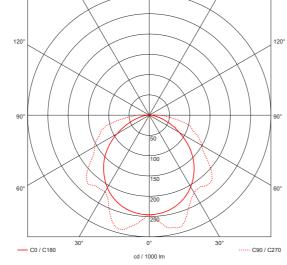








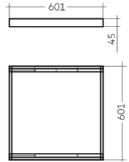
Photometric Diagram



Luminaire efficiency: 88.9%

LASCON[®] LPB-S LEJ...

SURFACE AND SUSPENDED LUMINAIRES



Life/Mair	ntenance
LED Driver Average Rated Life	50 000hrs
LED Life	46 000hrs (L70 F10, TP 45°C)

	Applications				
•	Offices	• Retail			
$(\cdot$	Healthcare	Educational facilities			

	Benefits	
• 5 year warranty	Built-in surge protection	

Specification	Lumen @	System	Power	Current		Dimensions		Weight
opecilication	45°C	Power	Factor	Culleni	L	W	Н	Weight
LPB-S-32W-LED-4K	3800	36.3W	0.98	800mA	601mm	601mm	45mm	2.5kg
LPB-S-32W-LED-3K	3550	36.3W	0.98	800mA	601mm	601mm	45mm	2.5kg

SABS **IP20**

Life/Maintenance 100 000hrs LED Driver Average Rated Life LED Life > 60 000hrs @ (L80 F10, TP 45°C)

		Applicat	lions
•	Prison cells		High security areas
(.	Psychiatric hospitals	•	Holding cells

	Benefits	
• 5 year warranty	Built-in surge protection	

•	Small colour tolerance - MacAdam 3
•	Tridonic LED module and driver
•	Ambient temperature: -25+45°C
•	"Snake eye" tamper proof screws hold the diffuser in place and
	are removable with a special tool
•	Optic hides the LEDs
•	Approved luminaire by the department of correctional services
	One-piece injection moulded self-extinguishing UV stabilised

Product Features and Accessories

On polycarbonate diffuser

Colour temperature 4000K (3000K and 5000K on request)

- Rolled mild steel body with a white epoxy powder coated finish Available with night light
- DALI/DSI and dimmable options available Emergency options available

• High colour rendering index CRI > 80

Dimensions System Lumen @ Power Weight Specification Current 45°C Factor Power W Н L TP-24W-LED 4530 26.9W 0.98 275mA 1299mm 210mm 120mm 8.0kg TP-34W-LED 6080 37.3W 0.98 375mA 1299mm 210mm 120mm 8.0kg



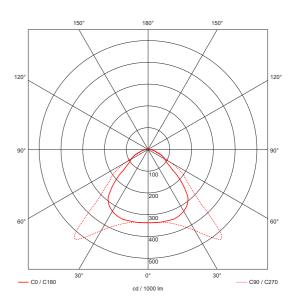




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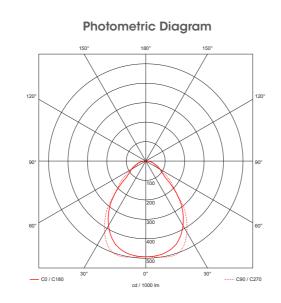
Photometric Diagram



- High colour rendering index CRI > 80
- Colour temperature 4000K or 3000K
- Ambient temperature: -20...+40°C
- 5 year warranty
- 3m cabtyre and 5 Amp plug (available on request)
- Ideal retrofit solution for ceilings up to 3.5m
- Ripple current 5%
- Honeycomb optic
- Suspension kits available on request

LASCON[®] LPM-S LEJ...





Luminaire efficiency: 100%



LED Driver Average Rated Life	50 000hrs
LED Life	46 000hrs (L70 F10, TP 45°C)

Applications			
Offices	• Retail		
Healthcare	 Educational facilities 		

	Benefits
5 year warranty	Built-in surge protection

	Product Features and Accessories
•	High colour rendering index CRI > 80
•	Colour temperature 4000K or 3000K
•	Ambient temperature: -20+40°C

- 5 year warranty
- 3m cabtyre and 5 Amp plug (available on request)
- Ideal retrofit solution for ceilings up to 3.5m
- Ripple current 5%
- Microprism optic
- Suspension kits available on request

Specification	Lumen @ System		Power	Current	Dimensions			Weight
opeomeditori	45°C	Power Facto	Factor	Cullen	L	W	н	Weigin
LPM-S-32W-LED-4K	3800	36.3W	0.98	800mA	601mm	601mm	45mm	2.5kg
LPM-S-32W-LED-3K	3550	36.3W	0.98	800mA	601mm	601mm	45mm	2.5kg



LASCON CATALOGUE

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LEJ

LP1-HO page 49

LEI



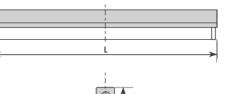
BATTEN-BS page 50

LASCON[®] BATTEN-HE LEJ

CHANNELS AND BATTENS

LASCON[®] BATTEN-HO LEI







120°		120°
90°	50	90°
60*	100 150 200	60°
C0 / C180	250 0° cd / 1000 lm	30° C90 / C270
Luminaii	re efficiency:	80.22%

Product Features and Accessories

Colour temperature 4000K (3000K and 5000K on request)

Rolled mild steel body with a white epoxy powder coated finish

High colour rendering index CRI > 80

Small colour tolerance - MacAdam 3

Tridonic LED module and driver

Ambient temperature: -25...+45°C

Semi-transparent PMMA diffuser Polycarbonate end-caps

Emergency options available

DALI/DSI and dimmable options available

Photometric Diagram

180°

150°

150°





Life/Maintenance					
LED Driver Average Rated Life	100 000hrs				
LED Life	> 60 000hrs (L80 F10, TP 45°C)				

		Applications
•	Class rooms	Storage rooms
	Retail lighting	Passage lighting

Benefits						
• 5 year warranty	Built-in surge protection					

Specification	Lumen @	System	Power Factor	Current	Dimensions			Weight
opeonication	45°C	Power		Canon	L	W	н	Weigin
BATTEN-44W-LED-HO	7490	48.3W	0.98	325mA	1120mm	44mm	73mm	1.3kg
BATTEN-55W-LED-HO	9070	60.4W	0.98	400mA	1120mm	44mm	73mm	1.3kg

1	Life/Maintenance				
	LED Driver Average Rated Life	100 000hrs			
	LED Life	> 60 000hrs (L80 F10, TP 45°C)			

Applications						
Cover lighting	Storage rooms					
Retail lighting	Passage lighting					

(Benefits					
	• 5 year warranty	Built-in surge protection				

S year warranty Built-in surge protection High efficiency version								
Specification Lumen @ System Power Current Dimensions								Weight
specification	45°C	Power	Factor	Culleni	L	w	н	weigili
BATTEN-17W-LED-HE	3410	19.3W	0.98	225mA	1120mm	44mm	73mm	1.3kg
BATTEN-24W-LED-HE	4530	26.9W	0.98	300mA	1120mm	44mm	73mm	1.3kg
BATTEN-31W-LED-HE	5680	34.6W	0.98	350mA	1120mm	44mm	73mm	1.3kg
BATTEN-36W-LED-HE	6510	39.9W	0.98	400mA	1120mm	44mm	73mm	1.3kg

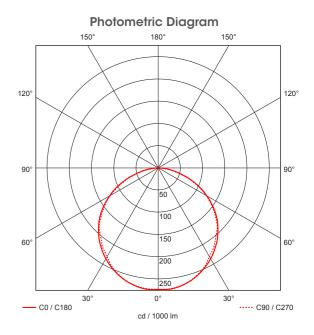




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Luminaire efficiency: 80.22%

- High colour rendering index CRI > 80
- Colour temperature 4000K (3000K and 5000K on request)
- Small colour tolerance MacAdam 3
- Tridonic LED module and driver
- Ambient temperature: -25...+45°C
- Rolled mild steel body with a white epoxy powder coated finish
- Semi-transparent PMMA diffuser
- Polycarbonate end-caps
- DALI/DSI and dimmable options available
- Emergency options available
- High output version

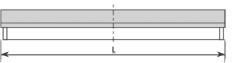


LASCON[®] LP1-HE LE3

CHANNELS AND BATTENS

LASCON[®] LP1-HO LEI



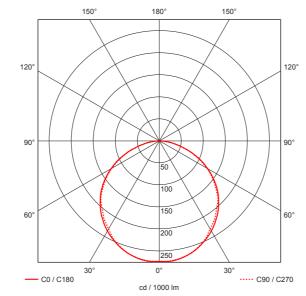




Life/N	laintenance
LED Driver Average Rated Life	100 000hrs
LED Life	> 60 000hrs (L80 F10, TP 45°C)

		Applications
•	Cover lighting	Storage rooms
	Retail lighting	Passage lighting

	Benefits
• 5 year warranty	Built-in surge protection



Photometric Diagram

Luminaire efficiency: 80.22%

	$\langle \rangle \rangle$	
90°	50	90°
60°	100	60°
	200	
	250	
	0° cd / 1000 lm	30° C90 / C270
Luminai	re efficiency	: 80.22%

Product Features and Accessories
High colour rendering index CRI > 80
Colour temperature 4000K (3000K and 5000K on request)
Small colour tolerance - MacAdam 3
Tridonic LED module and driver
Ambient temperature: -25+45°C
Rolled mild steel body with a white epoxy powder coated finish
Semi-transparent PMMA diffuser
Polycarbonate end-caps
DALI/DSI and dimmable options available
Emergency options available
High efficiency version

Specification			System Power		Dimensions			Weight
	45°C	Power	Factor	Current	L	W	н	Weigin
LP1-17W-LED-HE	3410	19.3W	0.98	225mA	1120mm	80mm	73mm	1.3kg
LP1-24W-LED-HE	4530	26.9W	0.98	300mA	1120mm	80mm	73mm	1.3kg
LP1-31W-LED-HE	5680	34.6W	0.98	350mA	1120mm	80mm	73mm	1.3kg
LP1-36W-LED-HE	6510	39.9W	0.98	400mA	1120mm	80mm	73mm	1.3kg











Life/N	laintenance
LED Driver Average Rated Life	100 000hrs
LED Life	> 60 000hrs (L80 F10, TP 45°C)

		Applications	
•	Class rooms	Storage rooms	
	Retail lighting	Passage lighting	

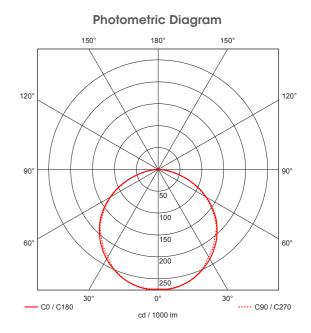
	Benefits	
• 5 year warranty	Built-in surge protection	7

Specification	Lumen @	System	Power	Current	Dimensions		Weight	
opeonication	45°C	Power	Factor	Cullerii	L	W	н	Weigin
LP1-44W-LED-HO	7490	48.3W	0.98	325mA	1120mm	80mm	73mm	1.3kg
LP1-55W-LED-HO	9070	60.4W	0.98	400mA	1120mm	80mm	73mm	1.3kg



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- High colour rendering index CRI > 80
- Colour temperature 4000K (3000K and 5000K on request)
- Small colour tolerance MacAdam 3
- Tridonic LED module and driver
- Ambient temperature: -25...+45°C
- Rolled mild steel body with a white epoxy powder coated finish
- Semi-transparent PMMA diffuser
- Polycarbonate end-caps
- DALI/DSI and dimmable options available
- Emergency options available
- High output version



LASCON[®] BATTEN-BS LEI







	150°	180°	150°	
120* 90*				120° 90°
60°	30°	100 200 300 0°	30° C	60°
		cd / 1000 lm		
	Luminc	ire efficienc	y: 95.9 %	

Photometric Diagram

CHANNELS AND BATTENS

LED Driver Average Rated Life

Retail gondola lighting

Low racking

5 year warranty

LED Life

LASCON[®] BATTEN-DS LEI







Life/Maintenance

Applications

Benefits

Libraries

Parts stores

Built-in surge protection

100 000hrs

> 60 000hrs (L80 F10, TP 45°C)

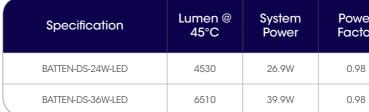
Life/Maintenance					
LED Driver Average Rated Life	100 000hrs				
LED Life	> 60 000hrs (L80 F10, TP 45°C)				

Applications						
•	Supermarkets	Food stores				
	Fashion stores	Furniture stores				

		Benefits	
• 5 ye	ar warranty	Built-in surge protection	

Product Features and Accessories
High colour rendering index CRI > 80
Colour temperature 4000K (3000K and 5000K on request)
Small colour tolerance - MacAdam 3
Tridonic LED module and driver
Ambient temperature: -25+45°C
Rolled mild steel body with a white epoxy powder coated finish
Semi-transparent PMMA diffuser
Polycarbonate end-caps
DALI/DSI and dimmable options available
Emergency options available
High efficiency version
Direct replacement for 1x54W or 1x85W

Specification	Lumen @		Power	Current	i	Dimension	S	Weight
	45°C	Power	Factor	Culleni	L	w	н	Weight
BATTEN-BS-24W-LED	4530	26.9W	0.98	300mA	1180mm	80mm	40mm	1.5kg
BATTEN-BS-36W-LED	6510	39.9W	0.98	400mA	1180mm	80mm	40mm	1.5kg





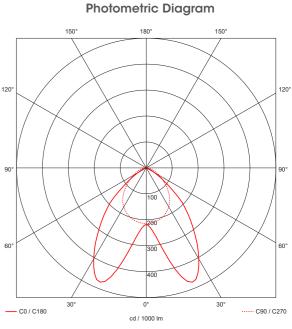
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Luminaire efficiency: 92.1%

- High colour rendering index CRI > 80
- Colour temperature 4000K (3000K and 5000K on request)
- Small colour tolerance MacAdam 3
- Tridonic LED module and driver
- Ambient temperature: -25...+45°C
- Rolled mild steel body with a white epoxy powder coated finish
- Semi-transparent PMMA diffuser
- Polycarbonate end-caps
- DALI/DSI and dimmable options available
- Emergency options available
- High efficiency version
- Direct replacement for 1x54W or 1x85W

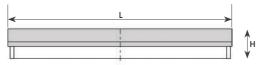
ər	Current	[Dimension	S	Weight
or		L	W	н	Weigin
	300mA	1180mm	80mm	40mm	1.5kg
	400mA	1180mm	80mm	40mm	1.5kg



CHANNELS AND BATTENS

LASCON[®] BATTEN-BW LEJ....



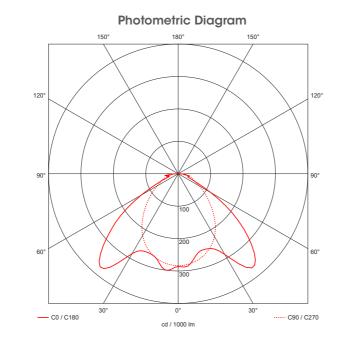




	1 1				
Life/Maintenance					
LED Driver Average Rated Life	100 000hrs				
LED Life	> 60 000hrs (L80 F10, TP 45°C)				

Applications						
SupermarketsFashion stores	Food storesFurniture stores					

	Benefits	
5 year warranty	Built-in surge protection	



Luminaire efficiency: 95.9%

Product Features and Accessories
High colour rendering index CRI > 80
Colour temperature 4000K (3000K and 5000K on request)
Small colour tolerance - MacAdam 3
Tridonic LED module and driver
Ambient temperature: -25+45°C
Rolled mild steel body with a white epoxy powder coated finish
Semi-transparent PMMA diffuser
Polycarbonate end-caps
DALI/DSI and dimmable options available
Emergency options available
High efficiency version
Direct replacement for 1x54W or 1x85W

Specification	Lumen @	System	Power	(Current	Dimensions				Weight
opeemeenen	45°C	Power	Factor		L	W1	W2	н	noigin
BATTEN-BW-24W-LED	4530	26.9W	0.98	300mA	1180mm	40mm	80mm	60mm	1.5kg
BATTEN-BW-36W-LED	6510	39.9W	0.98	400mA	1180mm	40mm	80mm	60mm	1.5kg

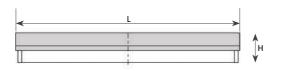




CHANNELS AND BATTENS

LASCON[®] BATTEN-DW LEJ...







Life/Maintenance					
LED Driver Average Rated Life	100 000hrs				
LED Life	> 60 000hrs (L80 F10, TP 45°C)				

	Applications						
•	Retail gondola lighting	 Libraries 					
·	Low racking	Parts stores					

	Benefits	
• 5 year warranty	Built-in surge protection	

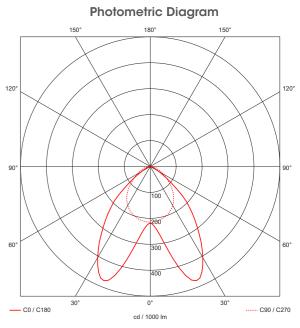
Specification	Lumen @	System	Power	Current		Dime	nsions		Weight
opeonication	45°C Power	Factor	Guileni	L	W1	W2	н	Weigin	
BATTEN-DW-24W-LED	4530	26.9W	0.98	300mA	1180mm	40mm	80mm	60mm	1.5kg
BATTEN-DW-36W-LED	6510	39.9W	0.98	400mA	1180mm	40mm	80mm	60mm	1.5kg



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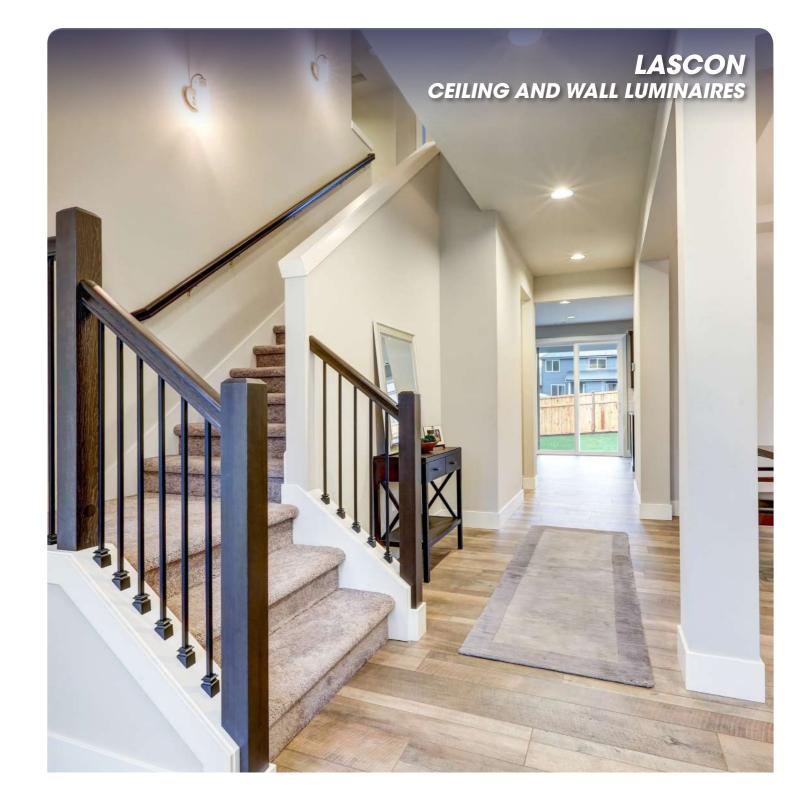


Luminaire efficiency: 92.1%

- High colour rendering index CRI > 80
- Colour temperature 4000K (3000K and 5000K on request)
- Small colour tolerance MacAdam 3
- Tridonic LED module and driver
- Ambient temperature: -25...+45°C
- Rolled mild steel body with a white epoxy powder coated finish
- Semi-transparent PMMA diffuser
- Polycarbonate end-caps
- DALI/DSI and dimmable options available
- Emergency options available
- High efficiency version
- Direct replacement for 1x54W or 1x85W



NOTES





LASCON CATALOGUE

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LEJ

ROMA page 59



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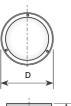
LASCON[®] B10 LEJ...

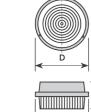


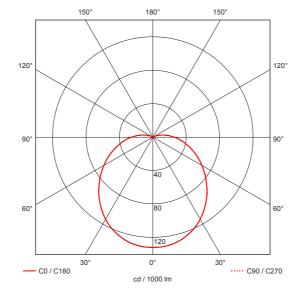


B10 Dome

B10 Flat







Photometric Diagram

Luminaire efficiency: 40.66%

Product Features and Accessories

Surface mounted on ceilings or walls or can even be semi-recessed

• High pressure die cast aluminium body with black polyurethane

High colour rendering index CRI > 80

Ambient temperature: -25...+80°C

Decorative skirt ordered separately

• Front trim ring ordered separately

Vandal proof version available

powder paint

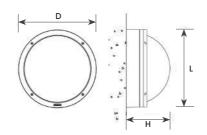
Colour temperature 4000K (3000K on request)

• Vossloh Schwabe main voltage (220-240V) LED module

• A silicone gasket seals out moisture, dust and insects

High impact resistant polycarbonate diffuser Clear flat or opal dome diffusers available





Life/Maintenance							
LED Life	50 000hrs (L80 F10, TP 45°C)						

Applications							
Residential areas	Architectural lighting						
Perimeter lighting	Shopping malls						

	Benefits	
• 5 year warranty		

Specification	Lumen @	System	Power		Dimensions		
specification	45°C	Power	Factor	L	D	Н	Weight
RIMINI-21W-LED/DOME	2875	23.4W	0.93	273mm	273mm	200mm	2.0kg
RIMINI-21W-LED/EYELID	2875	23.4W	0.93	273mm	273mm	200mm	2.0kg
RIMINI-21 W-LED/GRID	2875	23.4W	0.93	273mm	273mm	200mm	2.0kg



Life/Maintenance LED Life 50 000hrs (L80 F10, TP 45°C)

(Applications						
	Building perimeters	Industrial lighting					
	• Stairwells	Corridors					

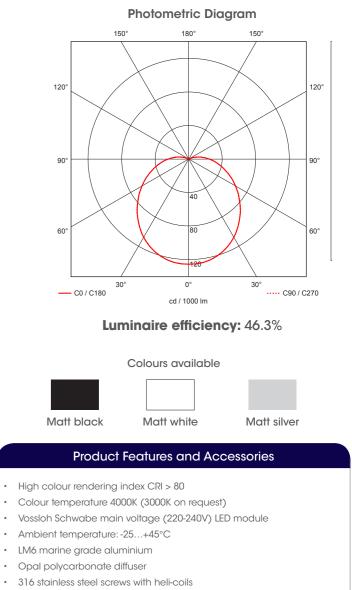
		Benefits	
•	5 year warranty		

Specification	Lumen @	System	Power Dimensions		nsions	Weight
opecilication	45°C	45°C Power		D	н	weigin
B10-10W-LED/FLAT	1250	10W	0.97	230mm	170mm	1.4kg
B10-10W-LED/DOME	1250	10W	0.97	230mm	170mm	1.4kg





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- Chemically treated and epoxy powder coated
- 5 year anti-corrosion warranty
- IP65

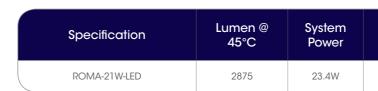


LASCON[®] MILANO LEJ...

	Photometric Diagram	
<image/>	10° 10° 10° 10° 10° 1	
Life/Maintenance	Product Features and Accessories	Life/Maintenance
LED Life 50 000hrs (L80 F10, TP 45°C)	High colour rendering index CRI > 80	LED Life 50 000hrs (L80 F10, TP 45°C)
Applications	 Colour temperature 4000K (3000K on request) Vossloh Schwabe main voltage (220-240V) LED module Ambient temperature: -25+45°C 	Applications
 Residential areas Perimeter lighting Shopping malls 	 Amblem temperature25+45 C LM6 marine grade aluminium Opal polycarbonate diffuser 316 stainless steel screws with heli-coils 	 Residential areas Perimeter lighting Shopping malls
Benefits	 Chemically treated and epoxy powder coated 5 year anti-corrosion warranty 	Benefits
• 5 year warranty	• IP65	5 year warranty

Photometric Diagram

Specificatio	Lumen	@ System	Power		Dimensions		Weight
opecilication	45°C	Power	ower Factor	L	w	н	weigin
MILANO-21W-LE	ED 2875	23.4W	0.93	270mm	270mm	93mm	2.0kg



CEILING AND WALL LUMINAIRES

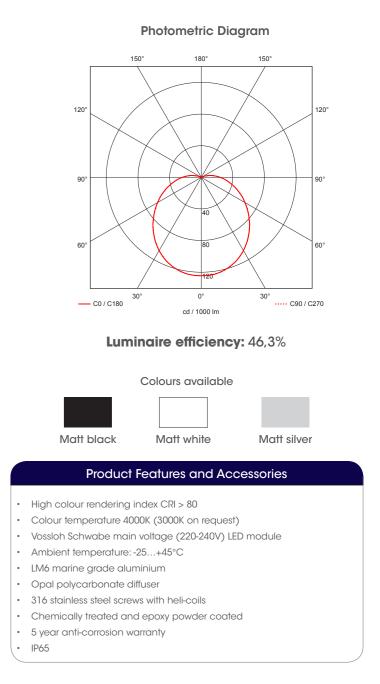






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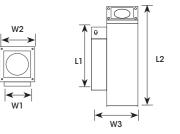


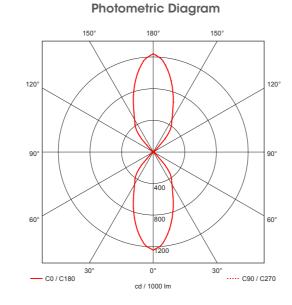
Dimensions Power Weight Factor D Н L 0.93 273mm 273mm 87mm 2.0kg



LASCON[®] QUATRO LEJ...







Luminaire efficiency: 82.5%

Colours available Matt black





Matt white	Matt

Matt white	Μ

Product Features and Accessories

		Applications	
•	Residential areas	Architectural lighting	
•	Perimeter lighting	 Indoor lighting 	

Life/Maintenance

25 000hrs

LED Life

Benefits	
3 year warranty	

•	High colour rendering index CRI > 80
•	Colour temperature 3000K
•	Small colour tolerance - MacAdam 5
•	Philips LED module, Tridonic driver
•	LM6 marine grade aluminium
•	Opal polycarbonate diffuser
•	316 stainless steel screws with heli-coils
•	Chemically treated and epoxy powder coated
•	3 year anti-corrosion warranty

• IP65

Suitable for GU10 LED Lamps

Available in up/down or down only

Specification	Lumen @	System	Power		C	imension	s		Weight
specification	45°C	Power	Factor	LI	L2	W1	W2	W3	weigin
QUATRO-GU10-8W	625	8W	0.98	150mm	255mm	80mm	80mm	120mm	1.8kg



LASCON CATALOGUE

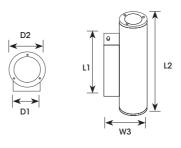




CEILING AND WALL LUMINAIRES

LASCON[®] PALERMO LEJ...





	Life/Maintenance	
LED Life	25 000hrs	

Residential areas Perimeter lighting Indoor lighting	Applications					
		0 0				

Benefits	
	3 year warranty
 	3 year warranty

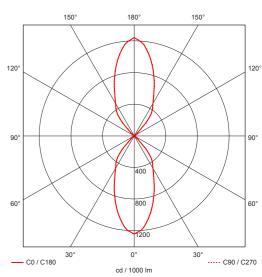
Specification	Lumen @	System	Power		D	imension	IS		Weight
specification	45°C	Power	Factor	LI	L2	D1	D2	W3	weigin
PALERMO-GU10-8W	625	8W	0.98	150mm	262mm	70mm	81mm	121mm	1.8kg



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Photometric Diagram

Luminaire efficiency: 82.5%

Colours available

Matt black





Product Features and Accessories • High colour rendering index CRI > 80 Colour temperature 3000K • Small colour tolerance - MacAdam 5 • LM6 marine grade aluminium Opal polycarbonate diffuser • 316 stainless steel screws with heli-coils Chemically treated and epoxy powder coated • 3 year anti-corrosion warranty • IP65 Suitable for GU10 LED Lamps • Available in up/down or down only



LASCON[®] SDL 150 LEJ...

Photometric Diagram 150° 180° 1509 120 Luminaire efficiency: 96% Colours available D Matt black Matt white

Small colour tolerance - MacAdam 3

• 5 year warranty

• IP54

Life/N	laintenance
LED Driver Average Rated Life	50 000hrs
LED Life	50 000hrs (L80 F10, TP 45 °C)

		Applications
•	Residential lighting	Passages and walkways
	Shopping malls	

	Benefits
5 year warranty	Built-in surge protection

•	Built-in surge protection

Specification	Lumen	System	Power	Current	Dimer	nsions	Woight
Specification	@ 45°C	Power	Factor	Current	L	D	Weight
SDL-150-LED-12W	2115	14.2W	0.98	350mA	150mm	100mm	1kg
SDL-150-LED-17W	2950	20.9W	0.98	500mA	150mm	100mm	1kg







Life/Maintenance					
LED Driver Average Rated Life	50 000hrs				
LED Life	50 000hrs (L80 F10, TP 45 °C)				

		Applications	
•	Residential lighting	Passages and walkways	
•	Shopping malls)

		Benefits	
•	5 year warranty	Built-in surge protection)

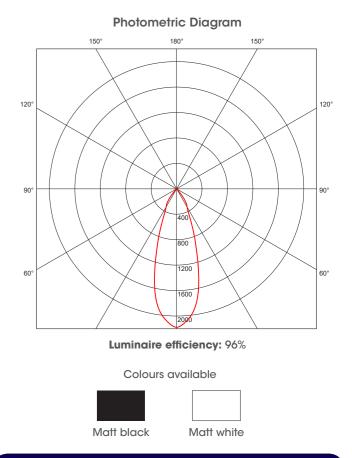
Specification	Lumen @	System	Power	Current	Dimer	nsions	Weight	
specification	45°C	Power	Factor	Culleni	L	D	weigin	
SDL-200-LED-17W	2950	20.9W	0.98	500mA	200mm	100mm	1.2kg	
SDL-200-LED-25W	4010	28.6W	0.98	700mA	200mm	100mm	1.2kg	



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CEILING AND WALL LUMINAIRES

LASCON[®] SDL 200 LEI



- High colour rendering CRI > 80 (CRI > 90 available on request)
- Colour temprature 4000K (3000K on request)
- Direct replacement for HID Metal Halide 20W to 35W
- Small colour tolerance MacAdam 3
- Chemically treated and epoxy powder coated
- 5 year warranty
- IP54
- Available in a wide and narrow beam (34° and 19°)



NOTES



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LEJ

LILI EMG page 68

LEJ



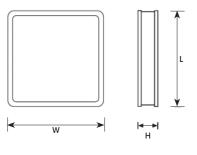


LASCON[®] E10 EMG LEJ...

EMERGENCY LIGHTING

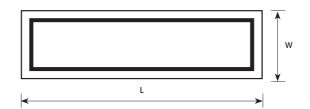
LASCON[®] CD-SS EMERGENCY SIGN EMG LEI











Life/Maintenance					
Average Rated Life 30 000hrs					
	Applications				
Offices	Lecture halls				
Hospitals	• Retail				

	Benefits	
• 2 year warranty	Built-in surge protection	ig)

	Product Features and Accessories
	Fibreglass frame
	Toughened glass lens
•	Galvanised hanging bolts (ceiling mounted version)
•	Choice of legends
•	Electronic control gear
•	Wall mounted (single sided) or ceiling mounted (single or double
	sided) versions available
•	Maintained or non-maintained versions available
•	Green on white or white on green available
•	2 year warranty

Specification	Wattage	Lumen @	System	Power	Current		Dimensions		Weight
opeeneenen	Manage	25°C	Power	Factor	Guileni	L	W	н	Meigin
E10-14W-LED-EMG	14W	2584	13.5W	0.9	2.4A	310mm	310mm	65mm	3.5kg

Life	e/Mainte	enance
Emergency Lighting Duration	2	hrs
	Appliag	tions
All exit doors according to	Applica legislation	lions
	Benef	its

Specification	Maximum Ambient	System Power	Discharge Current	Dimensions			
	Temperature	oysient rower	Discharge Ganeni	L	W	н	
CD-SS-EMG-2W	70°C	2W	300mA	375mm	145mm	28mm	







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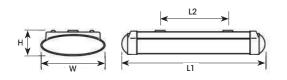
(Sold separately)

- Test button provided
- Complies with all regulations
- Surface mount



LASCON[®] LILI EMG LEJ...





1 7	EXIT
2 ⁺ →	<i>3</i> ²

(Sold separately)

Life/Maintenance							
Average Rated Life Tridonic Driver	100 000hrs						
Service Life - LED	50 000hrs						

	Applications	
• Offices	Lecture halls	
Hospitals	• Retail	

Benefits						
5 year warranty	Built-in surge protection					

•	Snap-on injection moulded plastic end-caps				
•	Frosted prismatic diffuser				
•	Rolled mild steel body with a white epoxy powder coated finish				
•	Maintained emergency luminaire				
•	2.6 hours of emergency duration and 40% light output in				
	emergency mode				
•	Pictogram packs sold separately (1 x running man left,				
	1 x running man right, 1 x running down and 1 x EXIT pictogram				

Product Features and Accessories

per pack) 5 year warranty

Maintained system

Options (1hr - 100%, 2hr - 100%, 3hr - 100%)

	Specification	Wattage	Lumen @ 25°C	System Power	Power Factor	Current	Dimensions				Weight
							LI	L2	W	н	neigin
	LILI-4W-LED	4W	670	5.1W	0.9	0.02A	420mm	165mm	208mm	77mm	2.1kg





EMERGENCY LIGHTING

LASCON EMERGENCY LIGHTING GUIDE

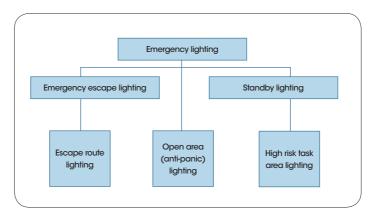
Introduction

Emergency lighting is intended to provide sufficient light to enable people to see their way out safely in case of an emergency. Emergency lighting installations must always comply with the appropriate standards. In terms of the Occupational Health and Safety Act (Act 85 of 1993) as amended, it is now mandatory to provide emergency lighting. In addition, it is compulsory that the emergency lighting system installed satisfies strict performance and operational criteria with SANS 1464-22 - Safety of Luminaires Part 22: Luminaires for **Emergency Lighting**. Further details and explanations can be found in **SANS** 10114-2 - Interior Lighting Part 2: Emergency Lighting. The installation must also be regularly maintained, tested and full records kept.

The need for emergency lighting

Battery systems may be one of two distinct types: self-contained and Emergency lighting is provided for when the main lighting supply fails. This is central system. required to help the occupants evacuate the premises quickly and safely. The emergency lighting is only required to be bright enough for the occupants to Self-contained emergency system find exit doors and to avoid obstacles.

Specific forms of emergency lighting



Emergency escape lighting - that part of the emergency lighting provided to enable safe exit from a building in the event of mains failure.

Standby lighting - that part of the emergency lighting that enables normal activities to continue in the event of mains failure.

Escape route lighting - that part of the emergency lighting that enables the safe exit from a building by providing adequate light and direction on escape routes and ensures that the fire fighting and safety equipment can be easily identified and used.

Open area (anti-panic) lighting - that part of emergency lighting that is provided in an open area to avoid panic and to enable the safe movement of occupants to reach an escape route.

High-risk task area lighting - that part of emergency lighting that provides light for the safety of the occupants involved in a potentially dangerous process or situation and enables proper shutdown procedures to ensure the safety of the operator and other occupants of the premises.

Under emergency conditions, emergency lighting is usually powered by internal batteries or a standby generator which are automatically triggered as soon as the mains supply fails. The emergency light source will usually be a separate miniature compact fluorescent lamp if "stand alone" emergency luminaires are used. It can also be one of the normal linear fluorescent lamps in a standard luminaire operated at reduced power level when in emergency mode.

All emergency lighting requires a power source which is independent of the main power supply. In general, this will either be powered by batteries or a generator.

There are two main system types:

Battery system

Each luminaire is equipped with a battery charger/ballast, indicator and changeover device (inverter). These components may be integral within the luminaire or adjacent to it. Self-contained systems are easy to install and require little or no maintenance other than routine testing to ensure correct operation. The luminaires should be connected to the local lighting circuit where there is a danger from circuit failure.

Central battery system

The central battery system is a battery room or cubicle in which the charger, batteries and changeover devices are located. In a central system it is also essential that the wiring be of a very high integrity. If it is not of a sufficiently high standard, there is a considerable risk of loss of power due to fire damage. There may also be a poor overall performance because of excessive voltage drop in the cables.

Generator system

An emergency lighting system must reach its required illumination level within 5 seconds, although some authorities will extended this to 15 seconds if the building is occupied by staff who are familiar with the surroundings. It is essential that the generator is run at all times. During its required time or the time that the generator automatically starts and runs up to, its required output is 5 seconds or less. If neither of these conditions can be achieved. then the generator must be supplemented by a battery system capable of operating the emergency lighting for at least one hour. In this case, the generator need not start up automatically but it should take over from the battery system as soon as possible.

LASCON[®] EMERGENCY LIGHTING GUIDE

Modes of operation

There are two types of emergency luminaires

Non-maintained mode

In non-maintained mode, the lamp is normally off and only operates during supply power failure. When using a non-maintained luminaire, the lamp only provides emergency escape lighting in the event of a power supply interruption. It has only one main connection that must be left on permanently. This connection is normally used to charge the batteries and to detect a power failure.

Non-maintained emergency luminaires are usually used:

- in areas where it is not possible to merge the emergency lighting gear into the existing luminaires;
- for high risk task area lighting where bright, direct lighting is required durina an emeraency
- for existing lighting installations where it is not feasible to change the building wiring and the lighting is on permanently;
- for area flood lighting where the existing lamp (HID) is not suitable for use in an emergency lighting application.

Maintained mode

A maintained luminaire provides light for both normal and emergency lighting. It has two main connections: permanent life and switched life. The permanent life connection is used to charge the batteries and detect the power failure. The switched life is used to switch the luminaire on and off to provide normal lighting

Maintained emergency luminaires are ideally suited for emergency lighting in:

- stair wells
- general offices
- escape route lighting:
- areas where it is preferable to merge emergency lighting into existing luminaires
- new installations where the additional wiring requirements can be readily accommodated.

Batteries

There are two types of batteries used for emergency lighting luminaires:

Nickel cadmium batteries

Nickel cadmium (NiCad) batteries are the most commonly used for emergency lighting. These batteries are rechargeable and the batteries are normally connected in series into a battery pack - 4 batteries will give a 4.8V output for an hour duration and 5 batteries will give 6V output for a two to three hour duration.

Nickel cadmium batteries have a long life, up to 10 years. They can be kept on the shelf for one or two years before being used without any detrimental effect.

Lead-acid batteries

A sealed lead-acid battery is cheaper but requires more maintenance and its rated life is about 5 years. It is used for halogen lights and other 12V DC devices. When this battery is stored, it must be recharged every three months. It is seldom used in fluorescent emergency luminaires

Servicing / Maintenance

To protect the integrity of an emergency lighting system, recommended maintenance and routine servicing is essential. This routine should be detailed and checks recorded in a logbook which is available for examination by any duly authorised personnel. These personnel must have at their disposal a general building or floor plan and electrical system assembly diagram of the safety lighting system.

Monthly - test for a short period not exceeding one quarter of the rated duration of operation of the luminaire

Annually - test each luminaire to its full rated duration of operation.

Note: these tests should be carried out more regularly if there are many power failures of short duration in a short space of time.

In terms of the Occupational Health and Safety Act 1993 (Act 85 0f 1993) as amended, periodic inspection and test reports should be supplied to the person responsible for the premises.

Design considerations

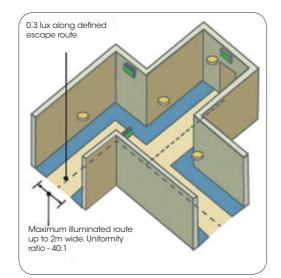
Design objective

It is an increasing requirement that commercial, industrial and public buildings are provided with some form of emergency lighting.

Requirements vary for different types of buildings. General guidance is given in SANS 10114-2 - Interior Lighting Part 2: code of practices for emergency lighting:

Clearly define the escape routes.

Provide illumination along the escape routes to allow safe movement towards and through the exits by luminaires spaced at appropriate intervals. Corridors and stairways or gangways in open areas are all classified as clearly defined escape routes.



EMERGENCY LIGHTING

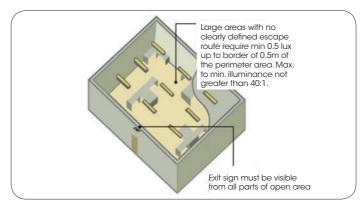
LASCON EMERGENCY LIGHTING GUIDE

The minimum lighting parameters are as follows:

- · Horizontal illumination at the floor on the centreline of permanently unobstructed routes should not be less than 0.2 lux. For stairways, the illumination should be measured horizontally at the edge of each tread.
- Where escape routes are greater than 2 metres, the escape route is to be treated as multiples of 2 metre wide bands.
- In retirement centres, an illumination of 0.3 lux is recommended.

Open areas anti-panic lighting

For areas that are frequently reconfigured and therefore do not have within them clearly defined escape routes, for example open plan offices or conference facilities, the minimum lighting parameters are as follows:



- The horizontal illumination shall not be less than 0.5 lux at the floor level of the empty core area which excludes the border of 0.5 metre of the perimeter area.
- The ratio of the maximum to the minimum open area lighting illumination shall not be areater than 40:1
- · Exit signs should be visible from any part of the space.

High risk task lighting

High risk areas are those in which dangerous machines must be shut down prior to evacuation.

General requirements

- The task must be illuminated to 10% of the normal lighting for as long as the risk exists or 20 lux, whichever is greater
- Maximum uniformity ratio of 10:1 within 5 metres of task.
- Duration of at least 30 minutes.
- · Response time of at least 0.5 seconds.

Position of emergency lighting luminaires

The most important part of the design procedure is to determine the location and position of luminaires to account for specific points of emphasis. This is to be performed regardless of whether the luminaires are placed on the emergency escape route or in an open anti-panic area.

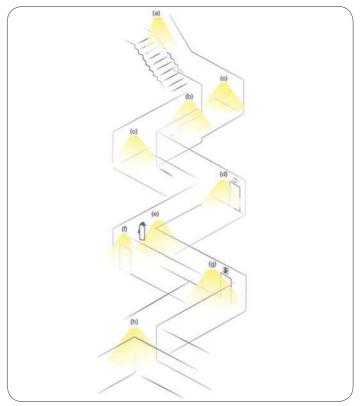
These points of emphasis should be illuminated by a luminaire and a directional sign (exit sign).

LASCON CATALOGUE

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Areas requiring special emphasis lighting:

- (a) All staircases long flights of stairs may need more than one luminaire.
- (b) At or near changes in floor levels.
- (c) At or near each change of direction.
- (d) To illuminate exit doors and safety signs.
- (e) Within 2 metres of each fire call point and each item of fire equipment such as extinguishers or hose reels.
- (f) Outside and near to each final exit.
- Near any First Aid points. (q)
- (h) At each intersection of the escape route corridor.



"Near" is described as being within 2 metres measured in a horizontal direction. Exit signs are to be mounted at a height of 2 to 2.5 metres above floor level.

Additional emergency lighting

Although not part of the escape route, certain additional areas require the use of emergency lighting:

- Lift cars although they may be part of the escape route in exceptional circumstances, they may present a problem if the public are trapped in them in the event of a mains supply failure.
- Toilet facilities exceeding 8m² floor area and all toilets for the disabled.
- · Motor generator, control or plant rooms.
- Covered car parks along normal pedestrian routes.

Most of Lascon's standard fluorescent luminaires can be supplied as self-contained emergency units. All luminaires can be maintained or non-maintained for an hour duration with 20% light output.





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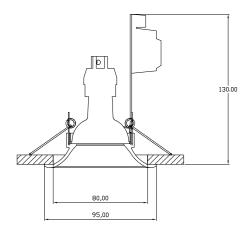


FUTURA 3 page 77



LASCON[®] FUTURA GU10 LEJ...





Life/Maintenance

Applications

Benefits

Hotels

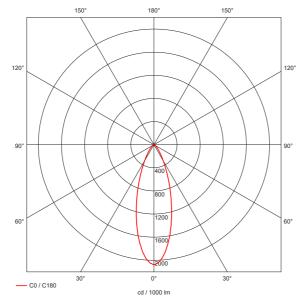
25 000hrs

LED Life

Passages

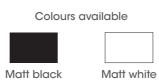
Residential lighting

• 3 year warranty



Photometric Diagram

Luminaire efficiency: 100%



Product Features and Accessories

- High colour rendering index CRI > 80
- Colour temperature 3000K or 4000K
- Small colour tolerance MacAdam 5
- 34° beam angle
- Fully dimmable
- Ideal retrofit solution for LV fixtures
- Non corrosive PC housing

Specification	Lumen @	System	Power		Dimension	S	Weight
specification	45°C	Power	Factor	Cut Out	D	н	weigili
FUT-GU10-8W	625	8W	0.98	80mm	95mm	130mm	0.2kg



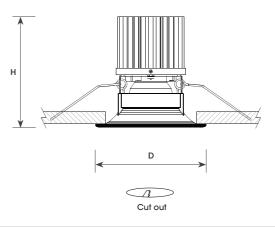
LASCON CATALOGUE



RECESSED DOWNLIGHTS

LASCON[®] FUTURA 1 LEJ...





Life/Maintenance						
LED Driver Average Rated Life	50 000hrs					
LED Life	50 000hrs (L80 F10, TP 45°C)					

	Applications						
•	Hotels	Offices					
•	Shopping malls	 Residential 					
ŀ	Conference rooms						

	Benefits	
5 year warranty	Built-in surge protection	

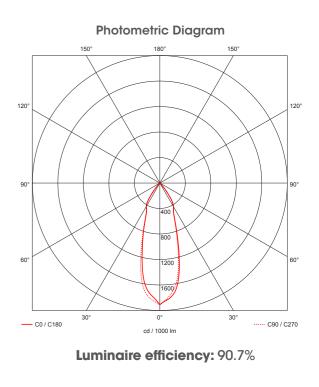
Specification	Lumen @	System	Power	Eactor Current		Weight		
specification	45°C	Power	Factor		Cut Out	D	Н	weigin
FUT1-7W-LED-840	1080	7.8W	0.98	180mA	80mm	96mm	100mm	0.2kg
FUT1-11W-LED-840	1740	12.6W	0.98	300mA	80mm	96mm	100mm	0.2kg



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Colours available

Matt black



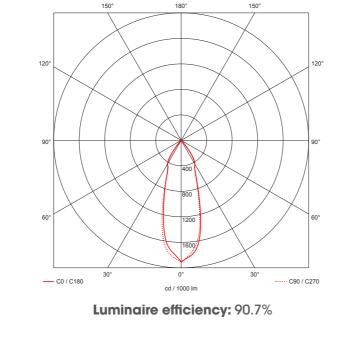
- High colour rendering index CRI > 80 (CRI90 on request)
- Colour temperature 4000K and 3000K available
- Direct replacements for 50W to 75W low voltage halogen fixtures
- Available in wide and narrow beam (34° and 18°)
- Fully dimmable version on request
- Tridonic COB and driver



RECESSED DOWNLIGHTS

LASCON[®] FUTURA 2 LEI





Photometric Diagram



Life/Maintenance LED Driver Average Rated Life 50 000hrs LED Life 50 000hrs (L80 F10, TP 45°C)

Cut out

Applications							
• Hotels	Apartments						
Residential	Treatment rooms						
Residential	Treatment rooms						

Benefits Built-in surge protection 5 year warranty

Product Features and Accessories

High colour rendering index CRI > 90

- Changing colour temperature 2700K 1800K available Dimmable via switch DIM or DALI
- Available in wide and narrow beam (34° and 18°) Tridonic COB and driver

Specification	Lumen @	System	ystem Power		Dimensions			Waight
specification	45°C	Power	Factor	Current	Cut Out	D	н	Weight
FUT-2-11W-LED-SUNSET	1005	12.5W	0.98	300mA	80mm	96mm	100mm	0.2kg

Dim to warm diagram

1 800k

2700K

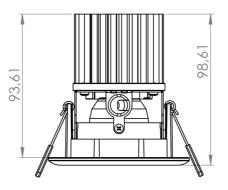




RECESSED DOWNLIGHTS

LASCON[®] FUTURA 3 LEJ...





Life/Maintenance					
	ED Driver Average Rated Life				
;)	.ED Life				
;)	ED Life				

Applications						
Hotels	Offices					
Shopping malls	 Residential 					
Conference rooms						

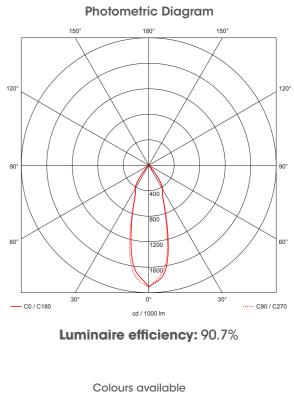
5 year warranty	• B	uilt-in surge prot	ection					
Specification	Lumen @	System	Power	Current		Dimensions		Woigh
Specification	45°C	Power	Factor	Current	Cut Out	D	Н	Weight
FUT3-7W-LED-840	1080	7.8W	7.8	180mA	80mm	92mm	98.61mm	0.2kg
FUT3-11W-LED-840	1740	12.6W	12.6	300mA	80mm	92mm	98.61mm	0.2kg



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Matt black

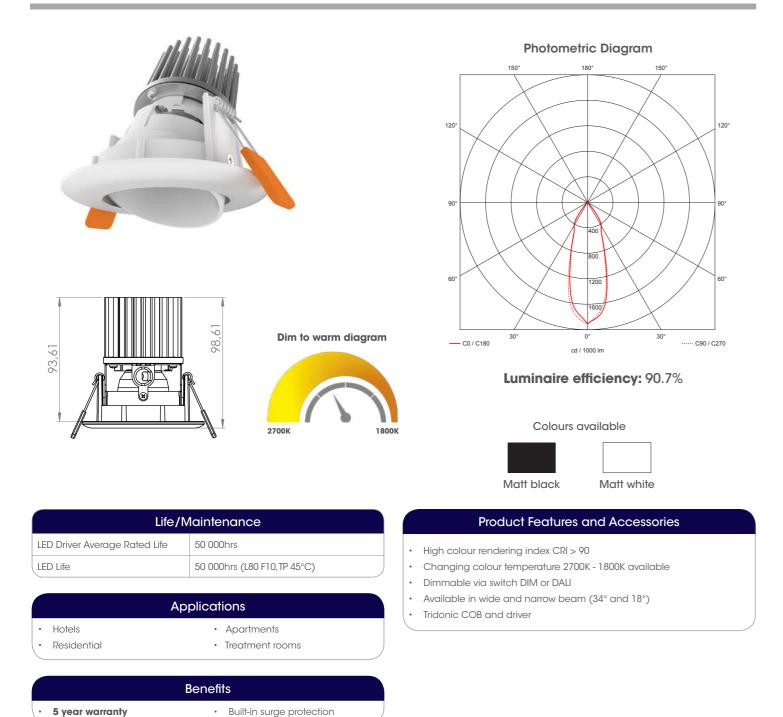
Matt white

- High colour rendering index CRI > 80 (CRI90 on request)
- Colour temperature 4000K and 3000K available
- Direct replacements for 50W to 75W low voltage halogen fixtures
- Available in wide and narrow beam (34° and 18°)
- Fully dimmable version on request
- Tridonic COB and driver



RECESSED DOWNLIGHTS

LASCON[®] FUTURA 4 LEJ...



Specification	Lumen @	System	Power	Current		Woight		
Specification	45°C Power Factor	Culleni	Cut Out	D	н	Weight		
FUT-4-11W-LED-SUNSET	1005	12.5W	0.98	300mA	80mm	92mm	98.61mm	0.2kg

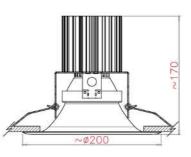




RECESSED DOWNLIGHTS

LASCON[®] FUTURA 5 LEJ...





Life/Maintenance							
LED Driver Average Rated Life	50 000hrs						
LED Life	50 000hrs (L80 F10, TP 45°C)						

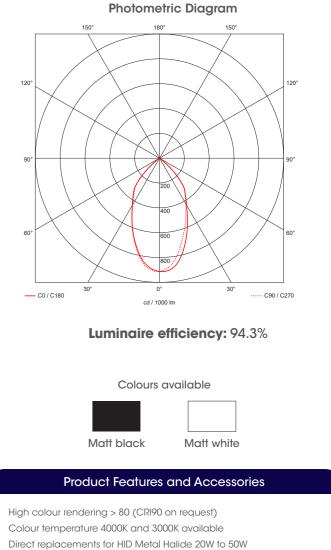
		Applications	
•	Offices	• Lectur	re halls
•	Shopping malls	 Conve 	ention halls
•	Double volume areas		

Benefits					
• 5 year warranty	Built-in surge protection				

Specification	Lumen @	System	Power	Current		Dimensions		Woight
specification	45°C	45°C Power	Factor	Culleni	Cut Out	D	н	Weight
FUT5-12W-LED-840	2110	12.8W	0.98	350mA	140mm	200mm	170mm	0.9kg
FUT5-17W-LED-840	2940	18.4W	0.98	500mA	140mm	200mm	170mm	0.9kg
FUT5-20W-LED-840	3790	22.2W	0.98	600mA	140mm	200mm	170mm	0.9kg
FUT5-27W-LED-840	4980	29.4W	0.98	800mA	140mm	200mm	170mm	0.9kg



• novee nore: output ou

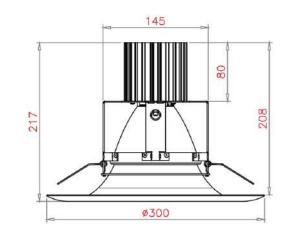


- Direct replacements for CFL 2x18W to 2x26W
- Fits into existing cut out of 140mm to 165mm
- Available in wide and narrow beam (55° and 27°)
- Fully dimmable version on request
- Tridonic COB and driver



LASCON[®] FUTURA 6 LEJ...





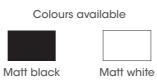
Life/N	laintenance
LED Driver Average Rated Life	50 000hrs
LED Life	50 000hrs (L80 F10, TP 45°C)

		Applico	at	ions
	Offices		•	Lecture halls
•	Shopping malls		•	Convention halls
(.	Double volume areas			

	Benefits
• 5 year warranty	Built-in surge protection

Photometric Diagram

Luminaire efficiency: 84.7%



Product Features and Accessories

- High colour rendering > 80 (CRI90 on request)
- Colour temperature 4000K and 3000K available
- Direct replacements for HID Metal Halide 20W to 50W
- Direct replacements for CFL 2x18W to 2x26W
- Fits into existing cut out of 165mm to 230mm
- Available in wide and narrow beam (45° and 30°)
- Fully dimmable version on request
- Tridonic COB and driver

	Specification	Lumen @ System 45°C Power	System	System Power			Dimensions	\$	Weight
			Power Facto	Factor	actor Current	Cut Out	D	н	weigili
Γ	FUT6-12W-LED-840	2110	12.8W	0.98	350mA	165mm	300mm	208mm	0.9kg
	FUT6-17W-LED-840	2940	18.4W	0.98	500mA	165mm	300mm	208mm	0.9kg
	FUT6-20W-LED-840	3790	22.2W	0.98	600mA	165mm	300mm	208mm	0.9kg
	FUT6-27W-LED-840	4980	29.4W	0.98	800mA	165mm	300mm	208mm	0.9kg





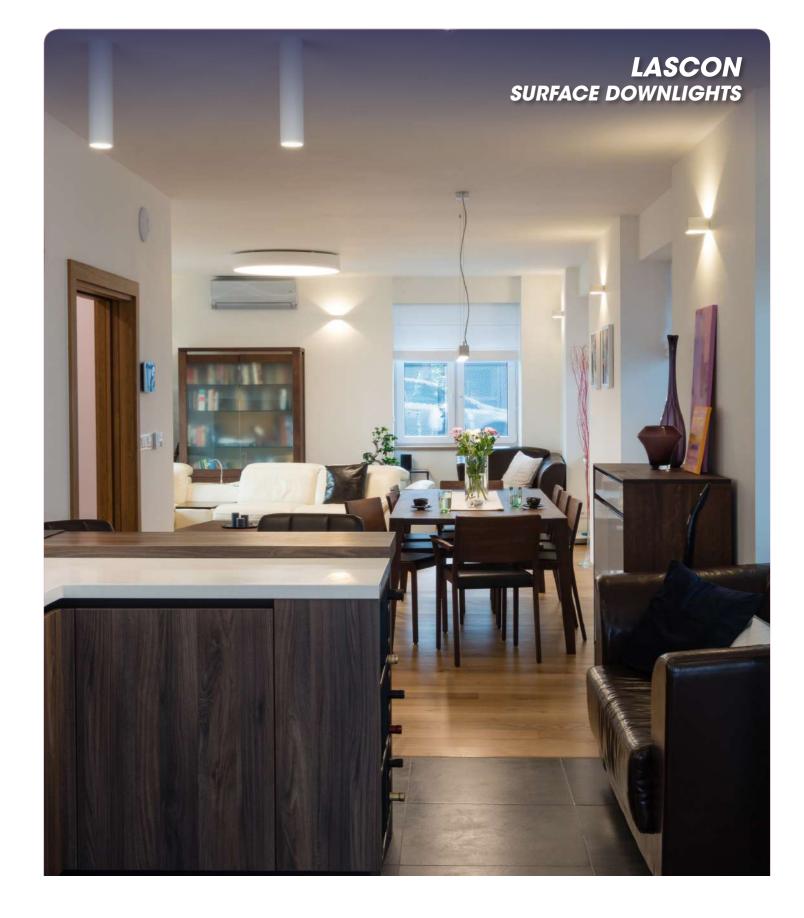
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SDL 150 page 86





SDL 200 page 87

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LASCON[®] TR LEJ...









LED Life

Residential

• 3 year warranty

Retail



Life/Maintenance

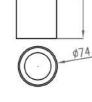
25 000hrs

Applications

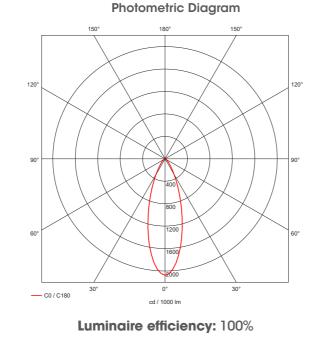
Benefits

Hotels

Interior architectural lighting



70



Colours available ite

Matt black	Matt whi
Product Features	and Acces

•	High colour rendering index CRI > 80
•	Colour temperature 3000K or 4000K
•	Small colour tolerance - MacAdam 5

• 3 year warranty on lamp

- Special colours on request
- Powder coated aluminium body
- 34° beam angle
- Fully dimmable

Specification	Lumen @ System		Power	Dime	Weight	
	45°C	Power	Factor	D	Н	neigin
TR-100-GU10-8W	625	8W	0.98	74	100	0.3kg
TR-170-GU10-8W	625	8W	0.98	74	170	0.4kg





SABS

SURFACE DOWNLIGHTS

LASCON[®] TS LEI



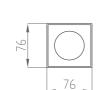
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(Life/N	laintenance
	LED Life	25 000hrs

	Applications						
•	Residential	 Hotels 					
	Retail	Interior architectural lighting					

	Benefits	
• 3 year warranty		$\Big]$

Specification			System Power	Dime	Weight	
specification	45°C Powe	Power	r Factor	D	Н	Weigin
TS-100-GU10-8W	625	8W	0.98	76	100	0.3kg
TS-170-GU10-8W	625	8W	0.98	76	170	0.4kg



230V

IP20

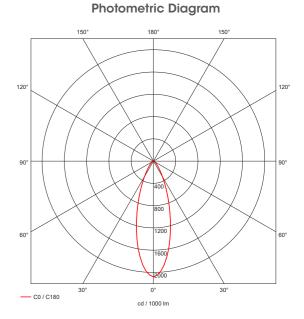
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sories



Luminaire efficiency: 100%

Colours available





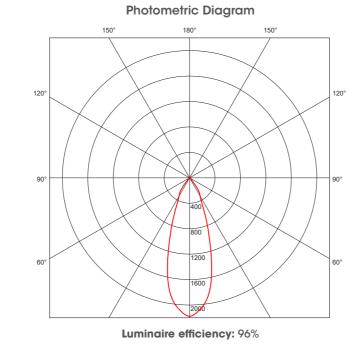
- High colour rendering index CRI > 80
- Colour temperature 3000K or 4000K
- Small colour tolerance MacAdam 5
- 3 year warranty on lamp
- Special colours on request
- Powder coated aluminium body
- 34° beam angle
- Fully dimmable





LASCON[®] SDL 150 LEJ

D



Colours available Matt black Matt white

Product Features and Accessories

• High colour rendering CRI > 80 (CRI > 90 available on request)

Colour temprature 4000K (3000K on request)

• Small colour tolerance - MacAdam 3

• 5 year warranty

• IP54

Direct replacement for HID Metal Halide 20W to 35W

• Available in a wide and narrow beam (34° and 19°)

Chemically treated and epoxy powder coated

Life/ Maintenance				
LED Driver Average Rated Life	50 000hrs			
LED Life	50 000hrs (L80 F10, TP 45°C)			

D

Applications					
Residential	Passages and walkways				
Shopping malls					

	Benefits	
5 year warranty	Built-in surge protection]

Specification	Lumen @	System	Power	Current	Dime	nsions	Woight
Specification	45°C	45°C Power	Factor	Current	L	D	Weight
SDL-200-LED-17W	2950	20.9W	0.98	500mA	200mm	100mm	1.2kg
SDL-200-LED-25W	4010	28.6W	0.98	700mA	200mm	100mm	1.2kg

SABS IP54

Life/ Maintenance LED Driver Average Rated Life 50 000hrs LED Life 50 000hrs (L80 F10, TP 45°C)

		Applications
	Residential	Passages and walkways
(.	Shopping malls	

	Benefits
5 year warranty	Built-in surge protection

Specification	Lumen	System	Power	Current	Dime	nsions	Woight
Specification	@ 45°C Powe	Power	Power Factor	Cuneni	L	D	Weight
SDL-150-LED-12W	2115	14.2W	0.98	350mA	150mm	100mm	1kg
SDL-150-LED-17W	2950	20.9W	0.98	500mA	150mm	100mm	1kg



LASCON CATALOGUE



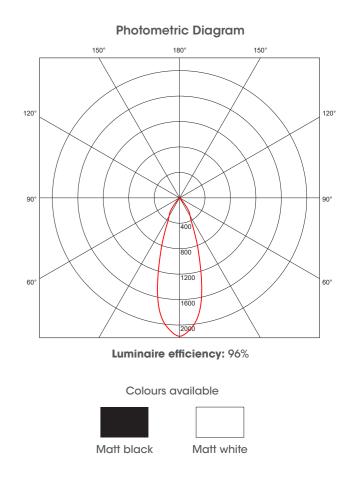




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LASCON[®] SDL 200 LEJ...



- High colour rendering CRI > 80 (CRI > 90 available on request)
- Colour temprature 4000K (3000K on request)
- Direct replacement for HID Metal Halide 20W to 35W
- Small colour tolerance MacAdam 3
- Chemically treated and epoxy powder coated
- 5 year warranty
- IP54
- Available in a wide and narrow beam (34° and 19°)







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PS-E page 93



PS page 94

Agency do not accept

LASCON[®] PG LEJ...

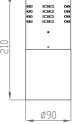




PG SOLID TUBE

PG-A-ACRYLIC





Life/N	laintenance
LED Life	25 000hrs

	Applications
Residential	• Hotels
• Retail	Interior architectural lighting

	Benefits	
3 year warranty		

90° 60° — C0 / C		d' 1000 lm efficiency	90° 90° 30°
	Colours	available	
	Matt black	Matt whi	ite
Pro	duct Features	and Acces	sories

Photometric Diagram

- High colour rendering index CRI > 80
- Colour temperature 3000K or 4000K
- Small colour tolerance MacAdam 5 3 year warranty on lamp
- Special colours on request
- Powder coated aluminium body
- 34° beam angle
- Fully dimmable

Specification	Lumen @	Lumen @ System Power Factor Dim	Dime	ensions	Weight	
	45°C		Factor	D	Н	Weigin
PG-GU10-8W	625	8W	0.98	89	210	0.6kg
PG-A-GU10-8W	625	8W	0.98	90	210	1.5kg





INTERIOR CEILING AND WALL LUMINAIRES

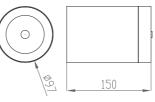
LASCON[®] PR LEJ....





150

200





Life/Maintenance					
LED Driver Average Rated Life 50 000hrs					
LED Life	> 50 000hrs (L80 F10, TP 45°C)				
Applications					
A	oplications				
Retail	• Hotels				

	Benefits
• 5 year warranty	Built-in surge protection

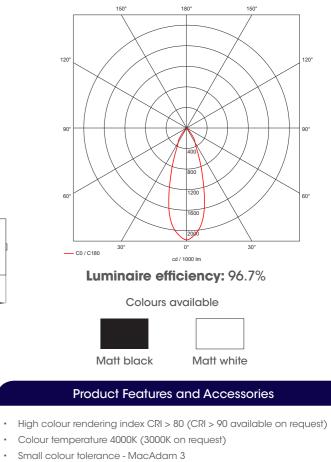
Specification	Lumen @	System	Power	Current		ensions	Weight
	45°C Power	Power	Factor	Ganerii	D	Н	
PR-150-12W	2115	14.2W	0.98	350mA	97	150	1kg
PR-150-17W	2950	20.9W	0.98	500mA	97	150	1kg
PR-200-17W	2950	20.9W	0.98	500mA	97	200	1.2kg
PR-200-25W	4010	28.6W	0.98	700mA	97	200	1.2kg



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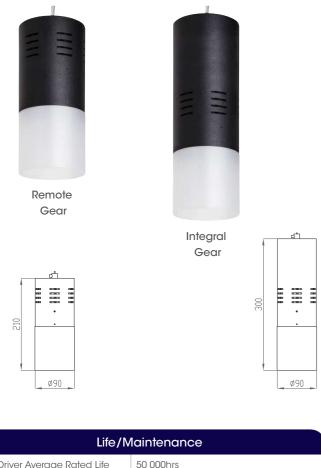
Photometric Diagram

• 5 year warranty

- Special colours on request
- Powder coated aluminium body
- Available in wide and narrow beam (54° and 34°)
- Integral driver
- Higher wattage and output available on request



LASCON[®] PA LEI



LED Driver Average Rated Life	50 000hrs			
LED Life	> 50 000hrs (L80 F10, TP 45°C)			

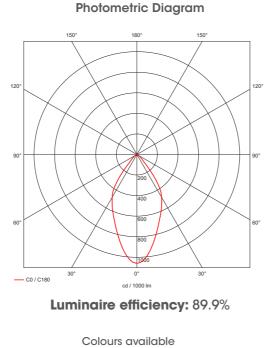
		Applications	
• Ret	tail	• Hotels	_
• Sho	opping malls	Interior architectural lighting	

	Benefits
5 year warranty	Built-in surge protection

Specification	Lumen @	System	Power	Current	Dimer	nsions	Weight
opeeniculion	45°C	Power	Factor	Curlem	D	Н	Weigini
PA-220-12W	2115	14.2W	0.98	350mA	90	210	1.2kg
PA-220-17W	2950	20.9W	0.98	500mA	90	210	1.2kg
PA-300-12W	2115	14.2W	0.98	350mA	90	300	1.5kg
PA-300-17W	2950	20.9W	0.98	500mA	90	300	1.5kg
PA-300-25W	4010	28.6W	0.98	700mA	90	300	1.5kg









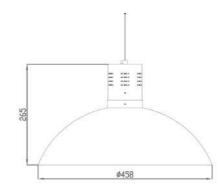
Product Features and Accessories

- High colour rendering index CRI > 80 (CRI > 90 available on request) Colour temperature 4000K (3000K on request)
- Small colour tolerance MacAdam 3
- 5 year warranty
- Special colours on request
- Powder coated aluminium body
- Available in wide and narrow beam (54° and 34°) Higher wattage and output available on request

INTERIOR CEILING AND WALL LUMINAIRES

LASCON[®] **PS-E** LEJ...





Life/Maintenance		
LED Life	25 000hrs	

Applications				
•	Residential	 Hotels 		
•	Retail	 Interior architectural lighting 		

Benefits	
• 3 year warranty	

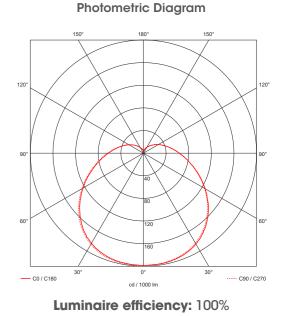
Specification	Lumen @ System 45°C Power	'	,	Dimensions		Weight
		Power		D	н	noigin
PD-E-E27-9W	806	9W	0.98	458	265	1.3kg



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Colours available

Matt black

Matt white

- High colour rendering index CRI > 80
- Colour temperature 3000K or 4000K
- Small colour tolerance MacAdam 5
- 3 year warranty on lamp
- Special colours on request
- Powder coated aluminium body
- E27 LED
- Fully dimmable



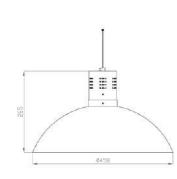
LASCON[®] PS LEJ...



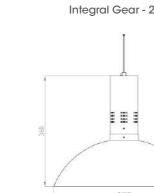
Remote Gear - 130

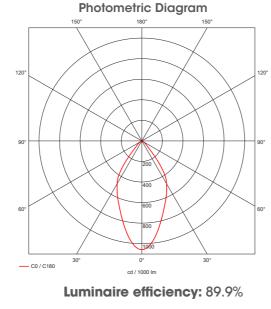


Integral Gear - 210



5 year warranty





Colours available



Matt black Matt white

(Life/N	laintenance
Ī	LED Driver Average Rated Life	50 000hrs
l	LED Life	> 50 000hrs (L80 F10, TP 45°C)

		Applications
•	Retail	Hotels
	Shopping malls	Interior architectural lighting

Benefits

Built-in surge protection

Product Features and Accessories

- High colour rendering index CRI > 80 (CRI > 90 available on request)
- Colour temperature 4000K (3000K on request)
- Small colour tolerance MacAdam 3 5 year warranty
- Special colours on request
- Powder coated aluminium body
- Available in wide and narrow beam (54° and 34°) Higher wattage and output available on request

Specification	Lumen @	System	Power	Current	Dime	nsions	Weight
opeemedition	45°C	Power	Factor	Cullent	D	н	Weigin
PS-RG-12W	2115	14.2W	0.98	350mA	458	265	2.2kg
PS-RG-17W	2950	20.9W	0.98	500mA	458	265	2.2kg
PS-RG-25W	4010	28.6W	0.98	700mA	458	265	2.2kg
PS-IG-12W	2115	14.2W	0.98	350mA	458	360	2.2kg
PS-IG-17W	2950	20.9W	0.98	500mA	458	360	2.2kg
PS-IG-25W	4010	28.6W	0.98	700mA	458	360	2.2kg

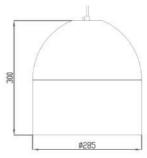




INTERIOR CEILING AND WALL LUMINAIRES

LASCON[®] PD-E LEI





Life/M	laintenance
LED Life	25 000hrs

		Applications	
•	Residential	 Hotels 	
•	Retail	Interior architectural lighting	

	Benefits	
• 3 year warranty		

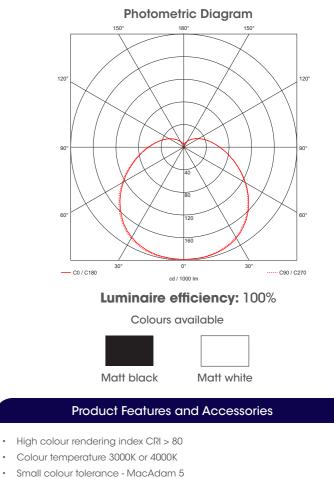
Specification	Lumen @ System 45°C Power	System	Power Factor	Dimensions		Weight
cpcomountri		Power		D	н	Weigin
PD-E-E27-9W	806	9W	0.98	285	300	1.3kg

|--|--|

LASCON CATALOGUE

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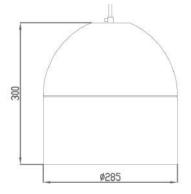


- 3 year warranty on lamp
- · Special colours on request
- Powder coated aluminium body
- E27 LED
- Fully dimmable



LASCON[®] PD LEI



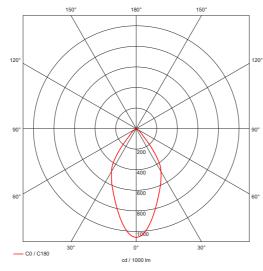


Life/Maintenance				
LED Driver Average Rated Life	50 000hrs			
LED Life	> 50 000hrs (L80 F10, TP 45°C)			

	Applications					
•	Retail	• Hotels				
	Shopping malls	Interior architectural lighting	_			

Benefits

• 5 year warranty



Photometric Diagram

Luminaire efficiency: 89.9%

Colours available Matt white Matt black

Product Features and Accessories

• High colour rendering index CRI > 80 (CRI > 90 available on request) Colour temperature 4000K (3000K on request)

- Small colour tolerance MacAdam 3
- 5 year warranty
- Special colours on request Powder coated aluminium body
- Available in wide and narrow beam (54° and 34°)
- Integral driver Higher wattage and output available on request

Specification	Lumen @	System	System			Dimen	Weight	
opeomounon	45°C	Power	Factor	Current	D	н	Weigin	
PD-12W	2115	14.2W	0.98	350mA	285	300	2.3kg	
PD-17W	2950	20.9W	0.98	500mA	285	300	2.3kg	
PD-25W	4010	28.6W	0.98	700mA	285	300	2.3kg	



INTERIOR CEILING AND WALL LUMINAIRES

LASCON[®] WS LEI



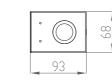


DN 100

UP/DN 150







Life/N	laintenance
LED Life	25 000hrs

Applications				
Residential	• Hotels			
• Retail	Interior architectural lighting			

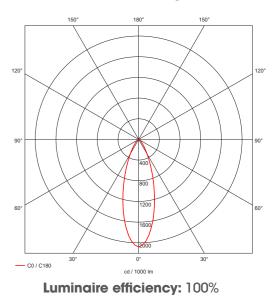
	Benefits	
• 3 year warranty		

Specification	Specification Lumen @ System Power			Weight			
	45°C	Power	Power Factor	L	W	н	Weight
WS-100-UD-GU10-8W	625	8W	0.98	93	68	125	0.3kg
WS-150-UD-GU10-8W	625	8W	0.98	93	68	150	0.4kg

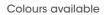


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Photometric Diagram

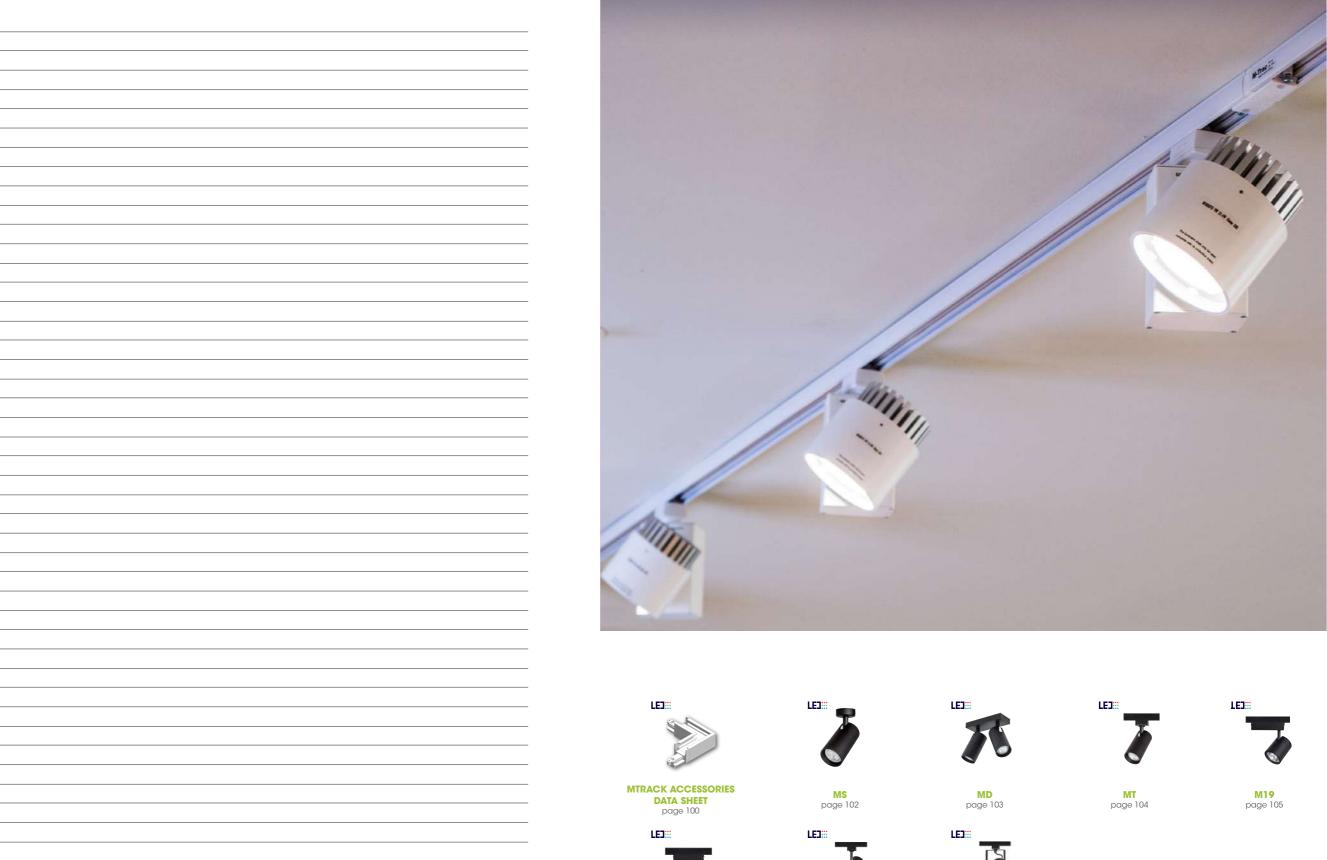


Matt black

ſ	Vatt	white	>

- High colour rendering index CRI > 80
- Colour temperature 3000K or 4000K
- Small colour tolerance MacAdam 5
- 3 year warranty on lamp
- · Special colours on request
- Powder coated aluminium body
- 34° beam angle
- Fully dimmable





M16 page 106



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M18 page 107

LASCON SPOTLIGHTS AND TRACK LUMINAIRES



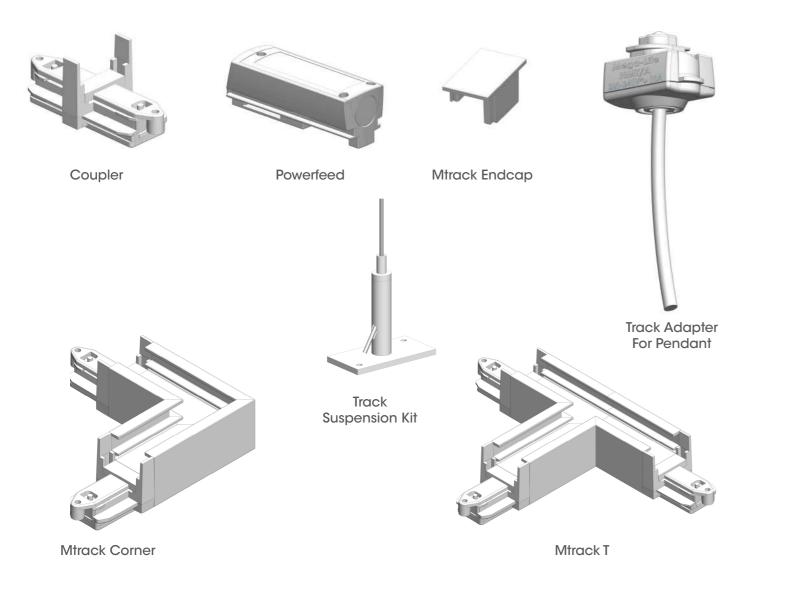
M20 page 108

SPOTLIGHTS AND TRACK LUMINAIRES

LASCON[®] MTRACK ACCESSORIES DATA SHEET LEI

SPOTLIGHTS AND TRACK LUMINAIRES

LASCON[®] MTRACK ACCESSORIES DATA SHEET LEI





Applications		
Retail stores	Lecture halls	
Offices	Reception areas	

		Applications	
	Retail stores	Lecture halls	
(.	Offices	 Reception 	

Product Features and Accessories

- Single phase track
- Degree of protection IP20
- Maximum power supply: 16A 220-240V
- Extruded aluminium body
- Available in matte black, white, white aluminium
- Other colours on request
- Custom lengths to order
- Available in standard 1000mm, 1500mm, 2000mm, 3000mm
- Standard suspension cables length 4000mm

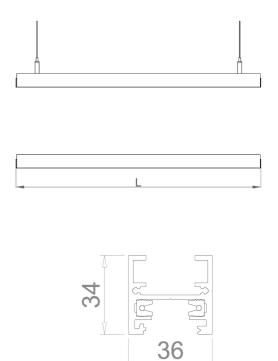
Specification	Power	Dimensions			Weight	
	Factor	L	W	Н	Weight	
MTrack-1000	16A 220-240V	1000mm	36mm	34mm	0.85kg	
MTrack-1500	16A 220-240V	1500mm	36mm	34mm	1.3kg	
MTrack-2000	16A 220-240V	2000mm	36mm	34mm	1.7kg	
MTrack-3000	16A 220-240V	3000mm	36mm	34mm	2.6kg	



LASCON CATALOGUE

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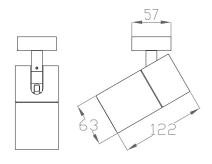


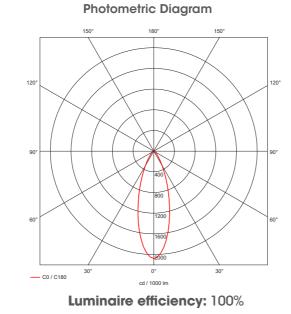
- Single phase track
- Degree of protection IP20
- Maximum power supply: 16A 220-240V
- Extruded aluminium body
- Available in matte black, white, white aluminium
- Custom lengths to border
- Available in standard 1000mm, 1500mm, 2000mm, 3000mm

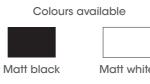


LASCON[®] MS LEJ....









Product Features and Accessories

• High colour rendering index CRI > 80

Colour temperature 3000K or 4000K

3 year warranty on lamp

34° beam angle

Fully dimmable

Special colours on request

Powder coated aluminium body

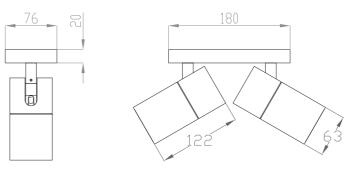
Small colour tolerance - MacAdam 5



SPOTLIGHTS AND TRACK LUMINAIRES

LASCON[®] MD LEJ...





Life/Maintenance		
LED Life	25 000hrs	

	Applications	
Residential	 Hotels 	
• Retail	Interior architectural lighting	

	Benefits	
• 3 year warranty		\sum

Specification	Lumen @ 45°C	System Power	Power Factor	D	н	М	Weight
MD-GU10-8W	625	8W	0.98	63mm	122mm	180 x 76	0.4kg



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Life/Maintenance					
LED Life	25 000hrs				
	Applications				

		Applications
•	Residential	• Hotels
(.	Retail	 Interior architectural lighting

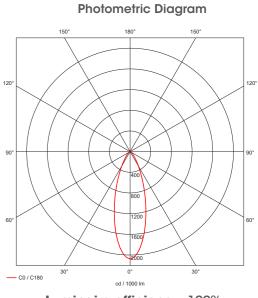
	Benefits
• 3 year warranty	

Specification	Lumen @ 45°C	System Power	Power Factor	D	н	М	Weight
MS-GU10-8W	625	8W	0.98	63mm	122mm	57mm	0.4kg











Colours available

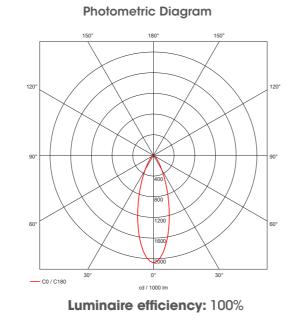
Matt black

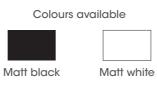


- High colour rendering index CRI > 80
- Colour temperature 3000K or 4000K
- Small colour tolerance MacAdam 5
- 3 year warranty on lamp
- Special colours on request
- Powder coated aluminium body
- 34° beam angle
- Fully dimmable

LASCON[®] MT LEJ...







Life/Maintenance		

	Applications					
	Residential	• Hotels				
(.	Retail	 Interior architectural lighting 				

25 000hrs

	Benefits	
3 year warranty	Built-in surge protection	

	Product Features and Accessories
٠	High colour rendering index CRI > 80
•	Colour temperature 3000K or 4000K
•	Small colour tolerance - MacAdam 5
•	3 year warranty on lamp
•	Special colours on request
•	Powder coated aluminium body
•	34° beam angle
•	Fully dimmable

Specification	Lumen @ 45°C	System Power	Power Factor	D	L	Weight
MT-GU10-8W	625	8W	0.98	63mm	122mm	0.4kg

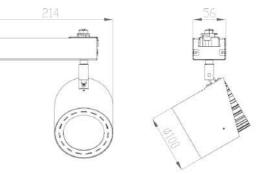




SABS

LASCON[®] M19 LEJ...





Life/N	Naintenance
LED Driver Average Rated Life	50 000hrs
LED Life	> 50 000hrs (L80 F10, TP 45°C)

	Applications	
Retail	• Hotels	
Shopping malls	Interior architectural lighting	

	Benefits	
• 5 year warranty	Built-in surge protection	

Specif	cation	Lumen @ 45°C	System Power	Power Factor	Current	D	М	Weight
M19	-12W	2115	14.2W	0.98	350mA	100mm	214 x 56	1kg
M19	-17W	2950	20.9W	0.98	500mA	100mm	214 x 56	1kg
M19	-25W	4010	28.6W	0.98	700mA	100mm	214 x 56	1kg

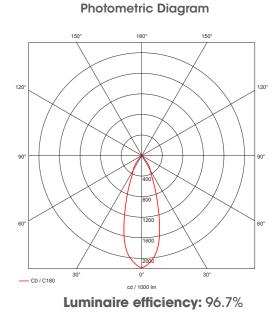
EMG

230V

IP20

DIM

LED Life



Colours available

Matt black

Matt white

- High colour rendering index CRI > 80 (CRI > 90 available on request)
- Colour temperature 4000K (3000K on request)
- Small colour tolerance MacAdam 3
- 5 year warranty
- Special colours on request
- Powder coated aluminium body
- Available in wide and narrow beam (34° and 19°)
- Higher wattage and output available on request



LASCON[®] M16 LEI



	Photo	ometric Dia	Igram	
	150°	180°	150°	
120* 90* 60* C0 / C180	30"	1000 2000 3000 4000 0°		90°
		cd / 1000 lm		

Luminaire efficiency: 97.1%



Life/Maintenance				
LED Driver Average Rated Life	50 000hrs			
LED Life	> 50 000hrs (L80 F10, TP 45°C)			

(Applications	
	•	Retail	 Hotels 	
	•	Shopping malls	 Interior architectural lighting 	

	Benefits	
5 year warranty	Built-in surge protection	

Product Features and Accessories

- High colour rendering index CRI > 80 (CRI > 90 available on request)
- Colour temperature 4000K (3000K on request)
- Small colour tolerance MacAdam 3
- 5 year warranty
- Special colours on request
- Powder coated aluminium body
- Available in wide and narrow beam (34° and 19°)
- Higher wattage and output available on request

Specification	Lumen @ 45°C	System Power	Power Factor	Current	Weight
M16-12W	2115	14.2W	0.98	350mA	1.1kg
M16-17W	2950	20.9W	0.98	500mA	1.1kg
M16-25W	4010	28.6W	0.98	700mA	1.1kg

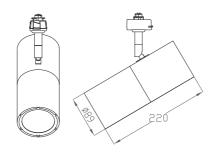




SPOTLIGHTS AND TRACK LUMINAIRES

LASCON[®] M18 LEJ...





Life/Maintenance				
LED Driver Average Rated Life	50 000hrs			
LED Life	> 50 000hrs (L80 F10, TP 45°C)			

		Applications	
•	Retail	 Hotels 	
	Shopping malls	Interior architectural lighting	

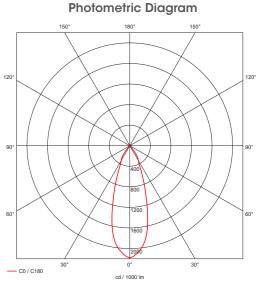
	Benefits	
• 5 year warranty	Built-in surge protection	

	Specification	Lumen @ 45°C	System Power	Power Factor	Current	D	L	Weight
	M18-12W	2115	14.2W	0.98	350mA	89mm	220mm	1.0kg
-	M18-17W	2950	20.9W	0.98	500mA	89mm	220mm	1.0kg
	M18-25W	4010	28.6W	0.98	700mA	89mm	220mm	1.0kg



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Colours available

Matt black

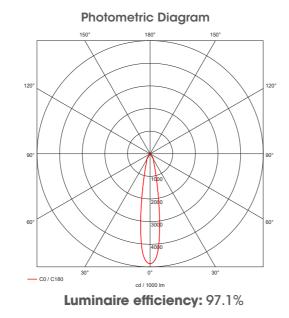
Matt	white

- High colour rendering index CRI > 80 (CRI > 90 available on request)
- Colour temperature 4000K (3000K on request)
- Small colour tolerance MacAdam 3
- 5 year warranty
- Special colours on request
- Powder coated aluminium body
- Available in wide and narrow beam (34° and 19°)
- Higher wattage and output available on request



LASCON[®] M20 LEJ...





Colours available

(Life/N	laintenance
ſ	LED Driver Average Rated Life	50 000hrs
	LED Life	> 50 000hrs (L80 F10, TP 45°C)

		Applications	
	Retail	 Hotels 	
(.	Shopping malls	 Interior architectural lighting 	

	Benefits	
5 year warranty	Built-in surge protection	

Product Features and Accessories

- High colour rendering index CRI > 80 (CRI > 90 available on request)
- Colour temperature 4000K (3000K on request)
- Small colour tolerance MacAdam 3
- 5 year warranty
- Special colours on request
- Powder coated aluminium body
- Available in wide and narrow beam (34° and 19°)
 Higher wattage and output available on request

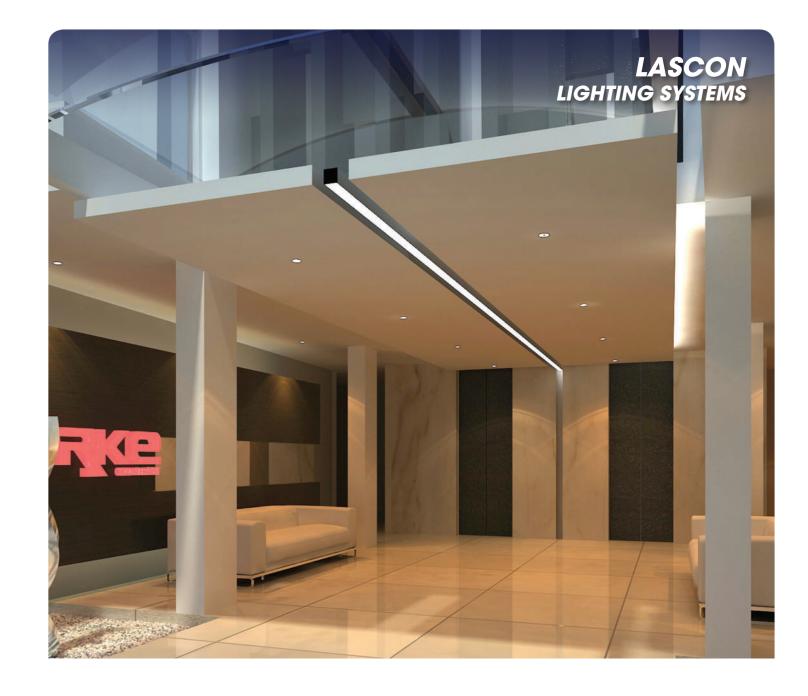
Specification	Lumen @ 45°C	System Power	Power Factor	Current	D	L	Weight
M20-12W	2115	14.2W	0.98	350mA	127mm	220mm	1.8kg
M20-17W	2950	20.9W	0.98	500mA	127mm	220mm	1.8kg
M20-25W	4010	28.6W	0.98	700mA	127mm	220mm	1.8kg





NOTES

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SLIMLINE

page 113









HAWK page 114







LYNX RECESSED page 117

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PROFILE SIZE COMPARISON

page 112

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LEJ



LYNX SURFACE page 118





LEJ



CLOSED CHANNEL page 122



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IMPALA SURFACE page 115



ORYX-HP-SURFACE page 120



IMPALA RECESSED page 116 LEJ



PUMA page 121

For extended and complete range visit www.descon.co.za. Minimum quantity orders may apply. Dimensions generally shown in mm and subject to technical change. Errors and omissions excepted. Voltex codes and descriptions have been used above. Use Voltex product type for spec purposes. Refer to www.lascon.co.za for additional information, certification required and full technical specification from the supplier. The Terms and Conditions which are set out at the end of this catalogue shall apply.

18

SLIMLINE (NO DIFFUSER)

52

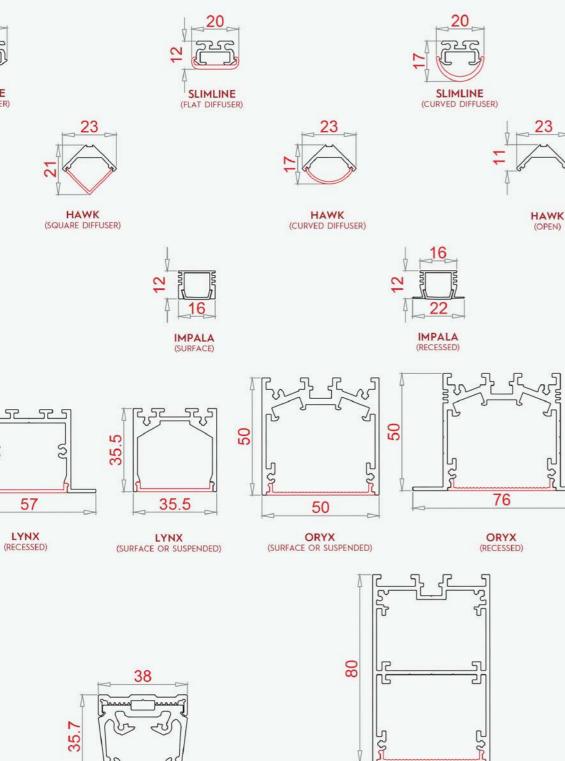
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LASCON[®] **PROFILE SIZE COMPARISON** LEI

PLEASE NOTE: Items listed below are not to scale, but relative in size to one another.





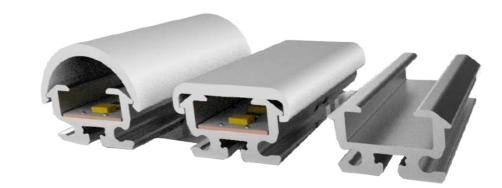
(SURFACE)

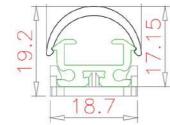




LIGHTING SYSTEMS

LASCON[®] SLIMLINE LEI





Curved Diffuser



Flat Diffuser

Life/Maintenance						
LED Driver Average Rated Life	50 000hrs					
LED Life	50 000hrs (L70 F10)					

Applications						
	Residential	Offices				
(.	Retail	Hotels				

	Benefits
• 5 year warranty	Built-in surge protection

Specification	Lumen @	System	Power	Dimensions			Weight	
specification	65°C	Power	Factor	W1	W2	H1	H2	Weigin
SLIMLINE-5W	400	6W	0.96	18.7mm	17.8mm	12.5mm	10.00mm	0.2kg
SLIMLINE-10W	800	12W	0.96	18.7mm	17.8mm	12.5mm	10.00mm	0.2kg
SLIMLINE-15W	1200	17W	0.96	18.7mm	17.8mm	12.5mm	10.00mm	0.2kg



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50

PUMA (SURFACE OR SUSPENDED)

No Diffuser

- High colour rendering index CRI > 80
- Colour temperature 3000K (4000K and 5000K on request)
- Finish natural and black anodise
- 5W, 10W and 15W versions available
- Custom cut length up to 5m
- DALI and dimmable options available
- Fixing via clips
- Magnetic tape fixing available
- Mechanical clips available in 0°, 15°, 30°, 45° and 60°



LIGHTING SYSTEMS

LASCON[®] IMPALA SURFACE LEJ...



Life/I	Maintenance
LED Driver Average Rated Life	50 000hrs
LED Life	50 000hrs (L70 F10)

	Applications	
• Coves	Display cabinets	

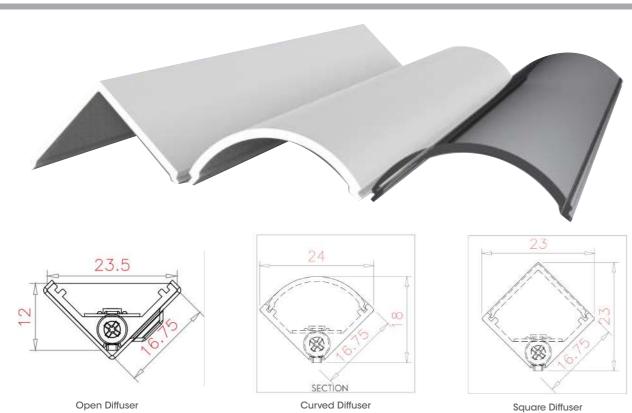
	Benefits	
5 year warranty	Built-in surge protection	

Specification	Lumen @	System			nsions	Weight
opecilication	65°C	Power	Factor	W	Н	Weigin
IMPALA-SURFACE-10W	800	12W	0.96	16mm	12mm	0.2kg P/M
IMPALA-SURFACE-15W	1200	17W	0.96	16mm	12mm	0.2kg P/M

Note:

- Photometrics available on request





Life/Maintenance LED Driver Average Rated Life 50 000hrs LED Life 50 000hrs (L70 F10)

	Applications	
• Coves	Display cabinets	

	Benefits
• 5 year warranty	Built-in surge protection

Specification	Lumen @	System	,		Dimensions	;	Weight
	65°C	Power	Factor	w	H1	H2	
HAWK-10W	800	12W	0.96	23.5mm	12mm	16.75mm	0.2kg P/M
HAWK-15W	1200	17W	0.96	23.5mm	12mm	16.75mm	0.2kg P/M

Note:

- Photometrics available on request

LASCON CATALOGUE



Product Features and Accessories

Colour temperature 3000K (4000K and 5000K on request)

High colour rendering index CRI > 80

Finish – natural and black anodised

• 10W and 15W versions available Custom cut length up to 5m

• Fully dimmable Fixing via clips

• move non-example in uny oppricable loss from time to time: (1) All the product images shown in this catalogue are for marketing purposes and may differ from the actual product. Dimensions are generally shown in mm. (2) All factual information in this catalogue was correct of the time of going to print and is subject to change without prior notice. Minimum quantity orders may apply. Errors and Omissions Excepted. Voltex (Pty) Ltd and its Marketing Agency do not accept responsibility or liability for any incorrect listing of any merchandise or information. Voltex Terms & Conditions of Sale which can be found at www.voltex.co.za and the Disclaimer which is set out at the end of this catalogue apply.

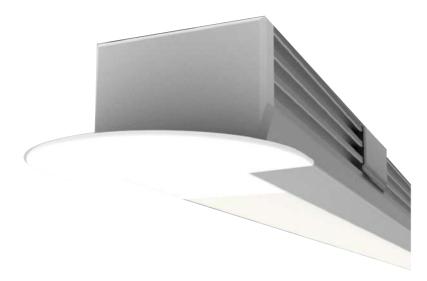
- High colour rendering index CRI > 80
- Colour temperature 3000K (4000K and 5000K on request)
- Finish natural and black anodised
- 10W and 15W versions available
- Custom cut length up to 5m
- Fully dimmable
- Fixing via clips

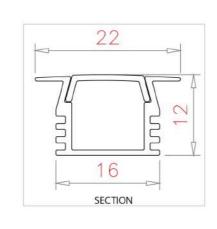


LASCON[®] IMPALA RECESSED LEI

LIGHTING SYSTEMS

LASCON[®] LYNX RECESSED LEI







Life/N	laintenance
LED Driver Average Rated Life	50 000hrs
LED Life	50 000hrs (L70 F10)

	Applications	
• Coves	Display cabinets	

Benefits				
5 year warranty	Built-in surge protection			

Specification	Lumen @	System			Dimensions	;	Weight
	65°C	Power	Factor	W1	W2	н	noigin
IMPALA-RECESSED-10W	800/m	12W	0.96	16mm	22mm	12mm	0.2kg P/M
IMPALA-RECESSED-15W	1200/m	17W	0.96	16mm	22mm	12mm	0.2kg P/M

Note:

- Photometrics available on request



•	High colour rendering index CRI > 80
•	Colour temperature 3000K (4000K and 5000K on request)

Product Features and Accessories

- Cc
- Finish natural and black anodised
- 10W and 15W versions available
- Custom cut length up to 5m
- Fully dimmable
- Fixing via clips

Life/Maintenance				
LED Driver Average Rated Life	50 000hrs			
LED Life	50 000hrs (L70 F10)			

	Ар	plications	
•	Residential	Conference rooms	
•	Offices/reception areas	 Hotels 	

	Benefits	
5 year warranty	Built-in surge protection	

Specification	Lumen	System	Power	Dimensions				Weight
specification	@ 65°C	Power Facto	Factor	Cut out	W1	W2	Н	weigin
LYNX-RECESSED-10W	800	12W	0.96	37mm	57mm	35.5mm	35.5mm	1.0kg P/M
LYNX-RECESSED-15W	1200	17W	0.96	37mm	57mm	35.5mm	35.5mm	1.0kg P/M
LYNX-RECESSED-25W	2200	28W	0.96	37mm	57mm	35.5mm	35.5mm	1.0kg P/M

Note:

- Photometrics available on request

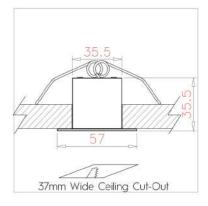




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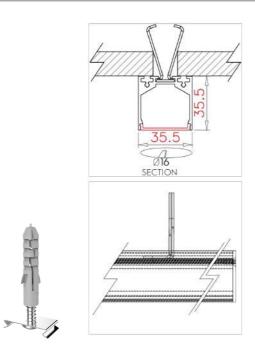


- High colour rendering index CRI > 80
- Colour temperature 3000K (4000K and 5000K on request)
- Finish natural and black anodised. White powder coated
- 10W, 15W and 25W versions available
- Custom cut length up to 5m
- Fully dimmable



LASCON[®] LYNX SURFACE LEI





Life/N	laintenance
LED Driver Average Rated Life	50 000hrs
LED Life	50 000hrs (L70 F10)

(Applicat	ions	
	•	Residential	•	Conference rooms	
(•	Offices/reception areas		Hotels	

	Benefits
• 5 year warranty	Built-in surge protection

Specification	Lumen @ System		Power	Dimen	Weight	
	65°C	Power	Factor	W	Н	Weight
LYNX-SURFACE-10W	800	12W	0.96	35.5mm	35.5mm	0.9kg P/M
LYNX-SURFACE-15W	1200	17W	0.96	35.5mm	35.5mm	0.9kg P/M
LYNX-SURFACE-25W	2200	28W	0.96	35.5mm	35.5mm	0.9kg P/M

Note:

- Photometrics available on request



Product Features and Accessories

• High colour rendering index CRI > 80

- Colour temperature 3000K (4000K and 5000K on request)
- Finish natural and black anodised. White powder coated
- 10W, 15W and 25W versions available
- Custom cut length up to 5m
- Fully dimmable

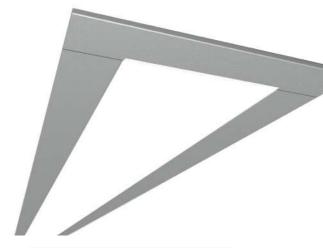
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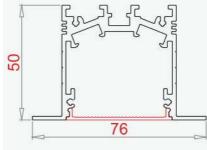


LASCON CATALOGUE

LIGHTING SYSTEMS

LASCON[®] ORYX-HP-RECESSED LEI





Life/Maintenance			
LED Driver Average Rated Life	50 000hrs		
LED Life	50 000hrs (L70 F10)		

	Applications
Hotels	Offices
Commercial	Residential

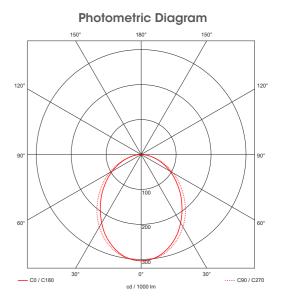
Benefits

Ease of installation

Plug and Play system. Contractors do not need to open any part of the fitting to complete installation tallation.

	the	titting	†0	complete	e instal	latic
_						

Specification	Lumen @	System	Power	Power Current	Current		Dimensi	ons	Weight
	45°C	Power	Factor	Factor	Cut out	W	н	heigin	
ORYX-R-HP-600W	2454	14.7W	0.96	400mA	55mm	76mm	50mm	0.9kg	
ORYX-R-HP-1200W	4909	29.4W	0.96	400mA	55mm	76mm	50mm	1.8kg	
ORYX-R-HP-1800W	7363	44.2W	0.96	400mA	55mm	76mm	50mm	2.7kg	
ORYX-R-HP-2400W	9818	58.9W	0.96	400mA	55mm	76mm	50mm	3.6kg	



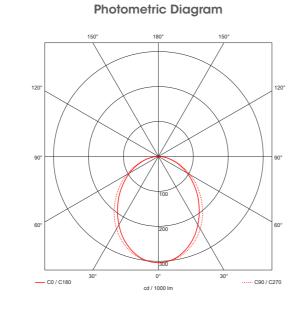
Product Features and Accessories

6063T6 Grade extruded and anodised aluminium profile with high transmission opal white acrylic diffuser.



LASCON ORYX-HP-SURFACE LET





Product Features and Accessories

6063T6 Grade extruded and anodised aluminium profile with high

transmission opal white acrylic diffuser.

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		50	

Life/N	Maintenance
LED Driver Average Rated Life	50 000hrs
LED Life	50 000hrs (L70 F10)

Applications					
Hotels	Offices				
Commercial	Residential				

Benefits

Ease of installation Plug and Play system. Contractors do not need to open any part of

the fitting t	to complete	installation.		

Specification	Lumen @	System	Power C Factor	Current	Dimensions		Weight	
	45°C	Power			W	Н		
ORYX-HP-600W	2454	14.7W	0.96	400mA	50mm	50mm	0.9kg	
ORYX-HP-1200W	4909	29.4W	0.96	400mA	50mm	50mm	1.8kg	
ORYX-HP-1800W	7363	44.2W	0.96	400mA	50mm	50mm	2.7kg	
ORYX-HP-2400W	9818	58.9W	0.96	400mA	50mm	50mm	3.6kg	

TT



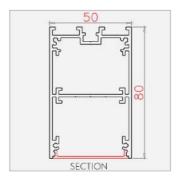






LASCON[®] PUMA LEI





aintenance	
50 000hrs	

Lile/ Multilendince					
50 000hrs					
50 000hrs (L70 F10)					

	Applications					
•	Hotels	Offices				
	Commercial	Residential				

Ber	nef	its

Ease of installation Plug and Play system. Contractors do not need to open any part of the fitting to complete installation.

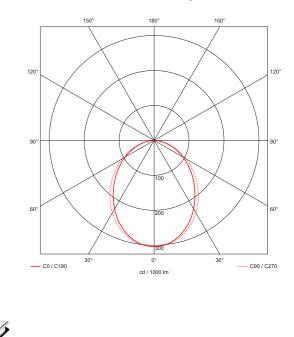
Specification	Lumen	System	Power	Current	Dime	nsions	Weight
specification	@ 45°C	Power	Factor	Culleni	W	Н	weigin
PUMA-600	2454	14.7W	0.96	300mA	50mm	80mm	1.1kg
PUMA-1200	4909	29.4W	0.96	300mA	50mm	80mm	2,2kg
PUMA-1800	7363	44.2W	0.96	300mA	50mm	80mm	3.3kg
PUMA-2400	9818	58.9W	0.96	300mA	50mm	80mm	4.4kg

TT





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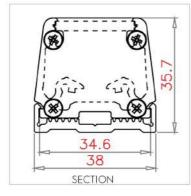
Photometric Diagram

Product Features and Accessories

6063T6 Grade extruded and anodised aluminium profile with high transmission opal white acrylic diffuser.



LASCON[®] CLOSED CHANNEL LEI



Life/Maintenance					
LED Driver Average Rated Life	50 000hrs				
LED Life	50 000hrs (L70 F10)				

		Applications	
	Hotels	Offices	
(.	Retail stores	 Residential 	

Product Features and Accessories High colour rendering index CRI > 80 Colour temperature 3000K (4000K and 5000K on request) Finish – natural and black anodise. White powder coating

- 5W, 10W and 15W versions available
- Custom cut length up to 5m
- DALI and dimmable options available

	Benefits
• 5 year warranty	Built-in surge protection

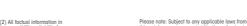
Specification	Lumen @	System	Power	l	Weight		
opeomounon	65°C	Power	Factor	W1	W2	н	Molgin
CLOSED CHANNEL-5W	400	6W	0.96	34.6mm	38mm	35.7mm	1.2kg
CLOSED CHANNEL-10W	800	12W	0.96	34.6mm	38mm	35.7mm	1.2kg
CLOSED CHANNE-15W	1200	17W	0.96	34.6mm	38mm	35.7mm	1.2kg

Note:

- Photometrics available on request







NOTES

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C11-HE page 128

C10-HE page 126

C10-HO page 127

LASCON CATALOGUE

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C11-HO page 129



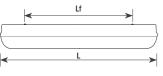
C-BAY-WB page 130



C-BAY-NB page 131

LASCON[®] C10-HE LEJ...







120°		120°
90°		90°
60°		60°
	- C0 / C180 cd / 1000 lm	70

PHOTOMETRIC DIAGRAM

180°

150°

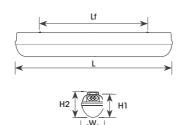
150°

LUMINAIRE EFFICIENCY: 88.12%

Product Features and Accessories



LASCON[®] C10-HO LEI



Life/Maintenance							
LED Driver Average Rated Life	100 000hrs						
LED Life	> 60 000hrs (L80 F10, TP 45°C)						

		Applicat	ions
•	Parking garages		Industrial halls
•	Cold storage facilities	•	Power stations

	Benefits	
5 year warranty	Built-in surge protection	

High colour rendering index CRI > 80
Colour temperature 4000K (3000K and 5000K on request)
Small colour tolerance - MacAdam 3
Tridonic LED module and driver
Ambient temperature: -25+45°C
Self-extinguishing polycarbonate body
UV stabilised, self-extinguishing polycarbonate diffuser with photo-
engraved interior and smooth outer surface
Anti-tamper polycarbonate snap-lock latches (stainless steel on request)
Hinge-able gear tray
Complete with mounting accessories
DALI/DSI and dimmable options available
Emergency options available
High efficiency version

Specification	Lumen	· · · · · · · · · · · · · · · · · · ·	'	Current	Dimensions					Weight
specification	@ 45°C			Curleni	L	Lf	w	H1	H2	Weight
C10-HE-24W-LED	4530	26.9W	0.98	275mA	1270mm	795mm	100mm	100mm	110mm	2.3kg
C10-HE-34W-LED	6080	37.3W	0.98	375mA	1270mm	795mm	100mm	100mm	110mm	2.3kg





Life/M	aintenance
LED Driver Average Rated Life	100 000hrs
LED Life	> 60 000hrs (L80 F10, TP 45°C)

	ŀ	Applications	
•	Parking garages	Industrial halls	
	Cold storage facilities	Power stations)

	Benefits	
• 5 year warranty	Built-in surge protection	

(Specification	Lumen	System	Power	Current		[Dimension	S		Weight
	opecilication	@ 45°C	Power	Factor	Cullen	L	Lf	W	нı	H2	Weigin
	C10-HO-44W-LED	7490	48.3W	0.98	325mA	1270mm	795mm	100mm	100mm	110mm	2.3kg
	C10-HO-55W-LED	9070	60.4W	0.98	400mA	1270mm	795mm	100mm	100mm	110mm	2.3kg

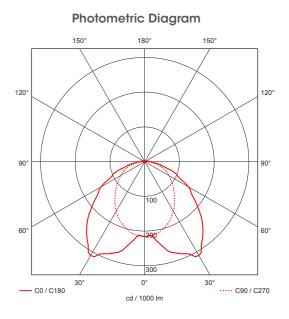




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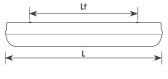


- High colour rendering index CRI > 80
- Colour temperature 4000K (3000K and 5000K on request)
- Small colour tolerance MacAdam 3
- Tridonic LED module and driver
- Ambient temperature: -25...+45°C
- Self-extinguishing polycarbonate body
- UV stabilised, self-extinguishing polycarbonate diffuser with photoengraved interior and smooth outer surface
- Anti-tamper polycarbonate snap-lock latches (stainless steel on request)
- Hinge-able gear tray
- Complete with mounting accessories
- DALI/DSI and dimmable options available
- Emergency options available
- High efficiency version



LASCON[®] C11-HE LEI







Life/M	laintenance
LED Driver Average Rated Life	100 000hrs
LED Life	> 60 000hrs (L80 F10, TP 45°C)

		Applicat	ions
•	Parking garages		Industrial halls
(.	Cold storage facilities	•	Power stations

Lumen

@ 45°C

4530

6080

230V

	Benefits	
• 5 year warranty	Built-in surge protection	

System

Power

26.9W

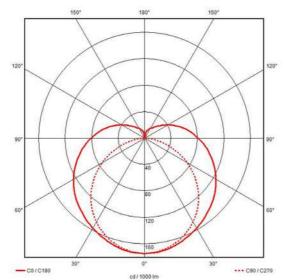
37.3W

Power

Factor

0.98

0.98



Photometric Diagram

Luminaire efficiency: 80.7%

Product Features and Accessories

UV stabilised, self-extinguishing polycarbonate opal diffuser and smooth

Anti-tamper polycarbonate snap-lock latches (stainless steel on request)

H1

100mm

100mm

H2

110mm

110mm

Colour temperature 4000K (3000K and 5000K on request)

High colour rendering index CRI > 80

• Small colour tolerance - MacAdam 3 Tridonic LED module and driver

Ambient temperature: -25...+45°C

outer surface

Hinge-able gear tray

Self-extinguishing polycarbonate body

Complete with mounting accessories DALI/DSI and dimmable options available

Dimensions

W

100mm

100mm

Emergency options available

High efficiency version

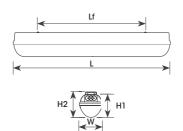
Lf

795mm

795mm

LASCON[®] C11-HO LEJ

CORROSION PROOF LUMINAIRES



Life/Maintenance					
LED Driver Average Rated Life	100 000hrs				
LED Life	> 60 000hrs (L80 F10, TP 45°C)				

Applications					
Parking garages	Industrial halls				
Cold storage facilities	Power stations				

	Benefits	
• 5 year warranty	Built-in surge protection	

Specification	Lumen	System	Power	Current			Dimension	S		Weight
specification	@ 45°C	Power	Factor	Culleni	L	Lf	W	H1	H2	weigin
C11-HO-44W-LED	7490	48.3W	0.98	325mA	1270mm	795mm	100mm	100mm	110mm	2.3kg
C11-HO-55W-LED	9070	60.4W	0.98	400mA	1270mm	795mm	100mm	100mm	110mm	2.3kg



L

1270mm

1270mm



Weight

2.3kg

2.3kg



Current

275mA

375mA

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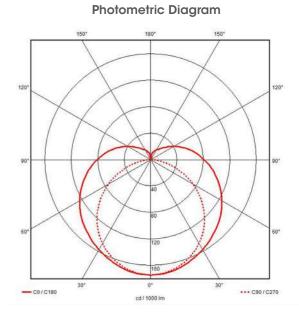
LASCON CATALOGUE

IP65

Specification

C11-HE-24W-LED

C11-HE-34W-LED



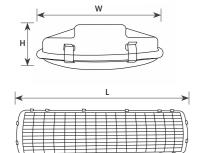
Luminaire efficiency: 80.7%

- High colour rendering index CRI > 80
- Colour temperature 4000K (3000K and 5000K on request)
- Small colour tolerance MacAdam 3
- Tridonic LED module and driver
- Ambient temperature: -25...+45°C
- Self-extinguishing polycarbonate body
- UV stabilised, self-extinguishing polycarbonate opal diffuser and smooth outer surface
- Anti-tamper polycarbonate snap-lock latches (stainless steel on request)
- Hinge-able gear tray
- Complete with mounting accessories
- DALI/DSI and dimmable options available
- Emergency options available
- High efficiency version



LASCON[®] C-BAY-WB LEI

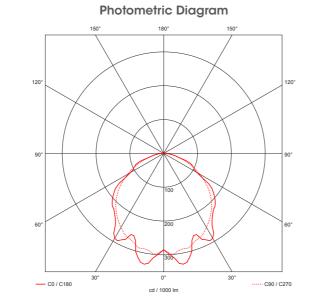




Life/Maintenance						
	LED Driver Average Rated Life	100 000hrs				
	LED Life	> 60 000hrs (L80 F10, TP 45°C)				

Applications					
• Wet areas	 Industrial 				
Cold rooms	Food processing				

	Benefits	
• 5 year warranty	Built-in surge protection	



Luminaire efficiency: 89.2%

	Product Features and Accessories
•	High colour rendering index CRI > 80
•	Colour temperature 4000K (3000K and 5000K on request)
•	Small colour tolerance - MacAdam 3
•	Tridonic LED module and driver
•	Ambient temperature: -30+45°C
•	Glass reinforced polyester (GRP) body
•	UV stabilised, self-extinguishing polycarbonate diffuser
•	Hinge-able gear tray
•	Stainless steel latches
•	Complete with 2 x P2000 mounting brackets and 4 x M5 eyebolts
•	Complete with IP65 quick connector
•	DALI/DSI and dimmable options available

Emergency options available

Specification	Lumen @	System	Power Current —	Dimensions			Weight	
opeemeenen	45°C	Power		Current	L	W	Н	neigin
C-BAY-102-LED	18 240	111.9W	0.98	375mA	1330mm	350mm	130mm	8.2kg
C-BAY-136-LED	24 320	149.2W	0.98	375mA	1330mm	350mm	130mm	8.5kg

SABS APPROVED DIM EMG IP65 230V



SABS

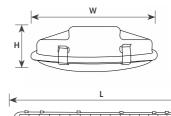
IP65

230V

CORROSION PROOF LUMINAIRES

LASCON[®] C-BAY-NB LEJ





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Life/Maintenance							
LED Driver Average Rated Life	100 000hrs						
LED Life	> 60 000hrs (L80 F10, TP 45°C)						

		Applications
•	Wet areas	 Industrial
•	Cold rooms	 Food processing
_		

	Benefits	
• 5 year warranty	Built-in surge protection	

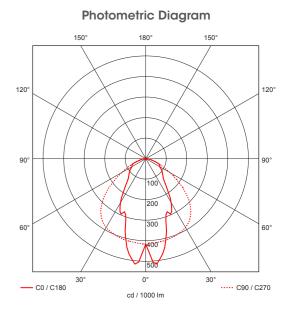
(Specification	Lumen @	System Power Current			Dimensions				
	specification	45°C	Power	Factor	Culleni	L	W	Н	Weight	
	C-BAY-102-LED	18 240	111.9W	0.98	375mA	1330mm	350mm	130mm	8.2kg	
	C-BAY-136-LED	24 320	149.2W	0.98	375mA	1330mm	350mm	130mm	8.5kg	



EMG

DIM

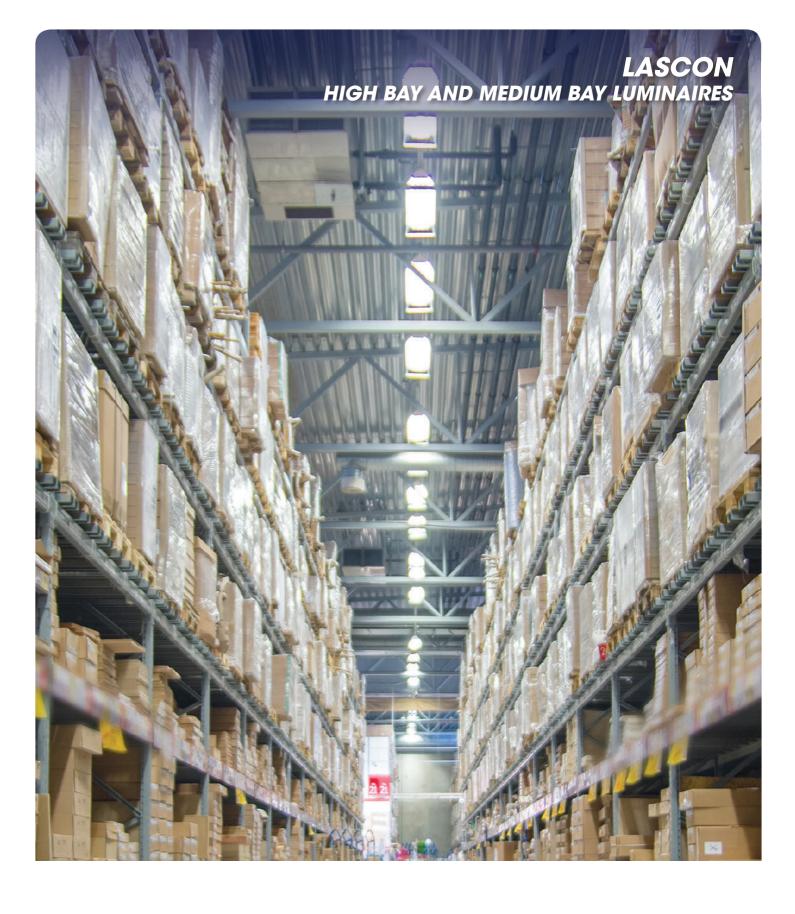
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Luminaire efficiency: 86.91%

- High colour rendering index CRI > 80
- Colour temperature 4000K (3000K and 5000K on request)
- Small colour tolerance MacAdam 3
- Tridonic LED module and driver
- Ambient temperature: -30...+45°C
- Glass reinforced polyester (GRP) body
- UV stabilised, self-extinguishing polycarbonate diffuser
- Hinge-able gear tray
- Stainless steel latches
- Complete with 2 x P2000 mounting brackets and 4 x M5 eyebolts
- Complete with IP65 quick connector
- DALI/DSI and dimmable options available
- Emergency options available









A-BAY page 134 S-BAY page 135

32 LASCON CATALOGUE

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N-BAY page 136

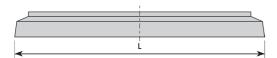
LEJ

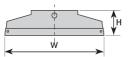


L-BAY page 137

LASCON[®] A-BAY LE3







150° 180° 150°	
	Ρ
60° 400 60°	
30° 0° 30° C90 / C270 cd / 1000 im	

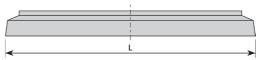
Photometric Diagram

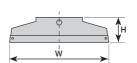
Luminaire efficiency: 96%



LASCON[®] S-BAY LEJ

HIGH BAY AND MEDIUM BAY LUMINAIRES





Life/Maintenance							
LED Driver Average Rated Life	100 000hrs						
LED Life	> 60 000hrs (L80 F10, TP 45°C)						

Applications							
	Warehouses	 Industrial 					
$(\cdot$	Aisle lighting	Factory					

	Benefits
• 5 year warranty	Built-in surge protection

Specification	Lumen @	System	Power	Current		Dimensions		Weight
opecilication	45°C Power	Factor	Cullen	L	W	н	Weigin	
S-BAY-102W-LED	18 240	111.9W	0.98	375mA	1195mm	418mm	105mm	4.6kg
S-BAY-136W-LED	24 320	149.2W	0.98	375mA	1195mm	418mm	105mm	4.6kg



Life/Maintenance				
LED Driver Average Rated Life	100 000hrs			
LED Life	> 60 000hrs (L80 F10, TP 45°C))		

		Applications
•	Warehouses	 Industrial
(.	High racks	Factory

	Benefits
• 5 year warranty	Built-in surge protection

High colour rendering index CRI > 80
Colour temperature 4000K (3000K and 5000K on request)
Small colour tolerance - MacAdam 3
Tridonic LED module and driver
Ambient temperature: -25+45°C
Complete with 2 x P2000 mounting brackets and 4 x M5 eyebolts
Surface or recessed
Rolled mild steel body with a structured silver epoxy powder
coated finish

Product Features and Accessories

- Complete with 3m cabtyre and 5 Amp plug
- HUBBELL end mount WASP sensor available
- DALI/DSI and dimmable options available
- Emergency options available

Specification	Lumen @	System	Power Current -	(Current		Dimensions		Weight
opeemeenen	45°C	Power		L	W	н	mongrin	
A-BAY-102W-LED	18 240	111.9W	0.98	375mA	1195mm	418mm	105mm	4.6kg
A-BAY-136W-LED	24 320	149.2W	0.98	375mA	1195mm	418mm	105mm	4.6kg

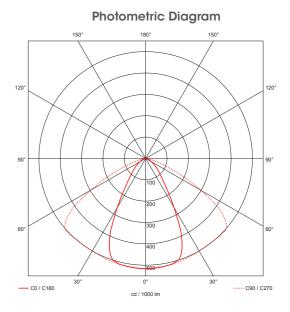






LASCON CATALOGUE

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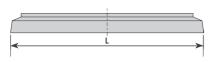


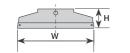
- High colour rendering index CRI > 80
- Colour temperature 4000K (3000K and 5000K on request)
- Small colour tolerance MacAdam 3
- Tridonic LED module and driver
- Ambient temperature: -25...+45°C
- Complete with 2 x P2000 mounting brackets and 4 x M5 eyebolts
- Surface or recessed
- Rolled mild steel body with a structured silver epoxy powder coated finish
- Complete with 3m cabtyre and 5 Amp plug
- Complete with clear diffuser
- HUBBELL end mount WASP sensor available
- DALI/DSI and dimmable options available
- Emergency options available



LASCON[®] N-BAY LEJ...







		\prec	
120*			120°
	$\langle \rangle$		
90*	100		90°
60*	200	\nearrow	60*
	400	$\left\langle \right\rangle$	
	0° cd / 1000 lm	30*	C90 / C270

Photometric Diagram

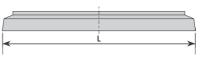
180°

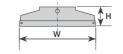
Luminaire efficiency: 92.3%



HIGH BAY AND MEDIUM BAY LUMINAIRES

LASCON[®] L-BAY LEJ...





Life/M	laintenance
LED Driver Average Rated Life	100 000hrs
LED Life	> 60 000hrs (L80 F10, TP 45°C)

		Applications
	Warehouses	Industry
$(\cdot$	Aisles	Factories

	Benefits
• 5 year warranty	Built-in surge protection

Specification	Lumen @	Lumen @ System Power Current Dimensions			System	Power Current	Power			Weight
opecilication	45°C	Power	Factor	Cullent	L	W	Н	Weight		
L-BAY-68W-LED-HE	12 160	74.6W	0.98	375mA	1195mm	240mm	80mm	4.0kg		
L-BAY-110W-LED-HO	18 140	120.8W	0.98	400mA	1195mm	240mm	80mm	4.0kg		

IP20

Life/Maintenance LED Driver Average Rated Life 100 000hrs LED Life > 60 000hrs (L80 F10, TP 45°C)

	Applications	
• Warehouses	• Industry	
Aisles	 Factories)

	Benefits
5 year warranty	Built-in surge protection

High colour rendering index CRI > 80
Colour temperature 4000K (3000K and 5000K on request)
Small colour tolerance - MacAdam 3
Tridonic LED module and driver
Ambient temperature: -25+45°C
Designed for quick and easy installations. Comes complete with
2 x P2000 mounting brackets and 4 x M5 eyebolts
Rolled mild steel body with a structured silver epoxy powder
coated finish
Complete with 3m cabtyre and 5 Amp plug

Product Features and Accessories

- Complete with medium bay optic
- DALI/DSI and dimmable options available
- Emergency options available
- High efficiency and high output versions

Specification	Lumen @	System	Power	Current		Dimensions		Weight
opeenieunen	45°C	Power Facto	Factor	tor	L	w	н	Molgin
N-BAY-68W-LED-HE	12 160	74.6W	0.98	375mA	1195mm	240mm	80mm	4.0kg
N-BAY-110W-LED-HO	18 140	120.8W	0.98	400mA	1195mm	240mm	80mm	4.0kg

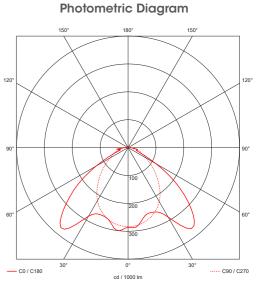






LASCON CATALOGUE

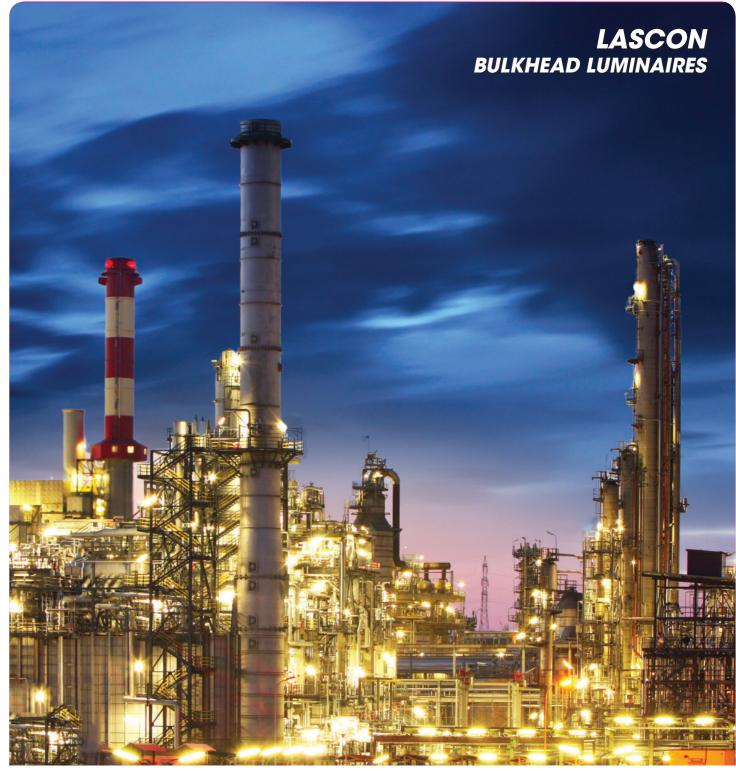
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- High colour rendering index CRI > 80
- Colour temperature 4000K (3000K and 5000K on request)
- Small colour tolerance MacAdam 3
- Tridonic LED module and driver
- Ambient temperature: -25...+45°C
- Designed for quick and easy installations. Comes complete with 2 x P2000 mounting brackets and 4 x M5 eyebolts
- Rolled mild steel body with a structured silver epoxy powder coated finish
- Complete with 3m cabtyre and 5 Amp plug
- Complete with medium bay optic
- DALI/DSI and dimmable options available
- Emergency options available
- High efficiency and high output versions







B43 page 145

LASCON CATALOGUE

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B41 RETROFIT page 143



B42 page 144

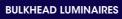
LASCON[®] B40 LEI



	150°	180°	150°
120°			120°
90° =		100	90°
60°		200 300 400	60"
	30°	0° cd / 1000 lm	30° C90 / C270

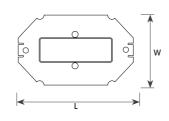
Photometric Diagram

Luminaire efficiency: 92%



LASCON[®] B40 RETROFIT LE3.





Life/M	aintenance
LED Driver Average Rated Life	50 000hrs
LED Life	50 000hrs (L80 F10, TP 45°C)

Tunnel	 Industrial 	
Conveyor	Security	
Power stations		

	Benefits
• 5 year warranty	Built-in surge protection

Specification	Lumen @	System	Power	Dimensions			Weight
specification	45°C	Power	Factor	L	W	Н	weigin
B40-RETROFIT-16W- LED	2636	17W	0.95	384mm	245mm	50mm	0.3kg
B40-RETROFIT-23W- LED	3540	24.7W	0.95	384mm	245mm	50mm	0.3kg
B40-RETROFIT-34W- LED	4400	36.5W	0.95	384mm	245mm	50mm	0.3kg

Life/Maintenance					
LED Driver Average Rated Life	50 000hrs				
LED Life	50 000hrs (L80 F10, TP 45°C)				

		Applications
•	Tunnel	 Industrial
(•	Conveyor	 Security

	Benefits
5 year warranty	Built-in surge protection

High colour rendering index CRI > 80
Colour temperature 4000K (3000K on request)
Vossloh Schwabe LED modules and driver
Ambient temperature: -25+80°C
LM6 high pressure die cast aluminium body
Borosilicate clear tempered glass or polycarbonate
316 stainless steel screws and heli-coils
3x20mmØ cable entry knockouts and $1xM20$ threaded gland entry

Product Features and Accessories

Mounting bracket available (ordered separately)

Specification	Lumen @	System	Power	Dimensions			Weight
opecilication	45°C	Power	Factor	L	W	н	Weigili
B40-16W-LED	2636	17W	0.95	410mm	271mm	120mm	4kg
B40-23W-LED	3540	24.7W	0.95	410mm	271mm	120mm	4kg
B40-34W-LED	4400	36.5W	0.95	410mm	271mm	120mm	4kg



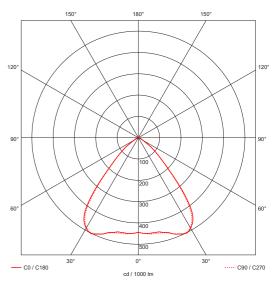




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Photometric Diagram



Luminaire efficiency: 92%

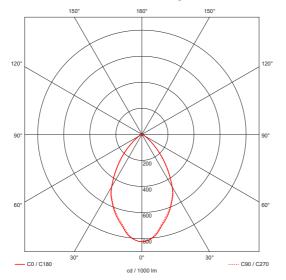
- Designed to be used in existing B40 luminaries
- High colour rendering index CRI > 80
- Colour temperature 4000K (3000K on request)
- Vossloh Schwabe LED modules and driver
- Ambient temperature: -25...+80°C
- Borosilicate glass cover available (ordered separately)



LASCON[®] B41 LEI

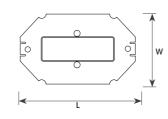


Photometric Diagram



Luminaire efficiency: 92%





Life/Maintenance			
LED Driver Average Rated Life	50 000hrs		
LED Life	50 000hrs (L80 F10, TP 45°C)		

Applications			
• Tunnel	 Industrial 		
Conveyor	 Security 		
Power stations			

	Benefits
• 5 year warranty	Built-in surge protection

Specification	Lumen @ 45°C	System	Power Factor		Dimensions		Weight
		Power		L	W	Н	weigin
B41-RETROFIT-16W- LED	2636	17W	0.95	384mm	245mm	50mm	0.3kg
B41-RETROFIT-23W- LED	3540	24.7W	0.95	384mm	245mm	50mm	0.3kg
B41-RETROFIT-34W- LED	4400	36.5W	0.95	384mm	245mm	50mm	0.3kg

230V **IP20** EMG SABS APPROVED

Life/Maintenance 50 000hrs LED Driver Average Rated Life LED Life 50 000hrs (L80 F10, TP 45°C)

	Applications	
• Tunnel	 Industrial 	
Conveyor	 Security 	

	Benefits	
• 5 year warranty	Built-in surge protection	

	Product Features and Accessories
	High colour rendering index CRI > 80
	Colour temperature 4000K (3000K on request)
	Vossloh Schwabe LED modules and driver
	Ambient temperature: -25+80°C
	LM6 high pressure die cast aluminium body
	Borosilicate clear tempered glass or polycarbonate
	316 stainless steel screws and heli-coils
	3x20mm Ø cable entry knockouts and $1xM20$ threaded gland entry
	Mounting bracket available (ordered separately)
_	

Specification	Lumen @	System	Power Factor		Dimensions		Weight
specification	45°C	Power		L	W	Н	weigin
B41-16W-LED	2636	17W	0.95	410mm	271mm	120mm	4kg
B41-23W-LED	3540	24.7W	0.95	410mm	271mm	120mm	4kg
B41-34W-LED	4400	36.5W	0.95	410mm	271mm	120mm	4kg



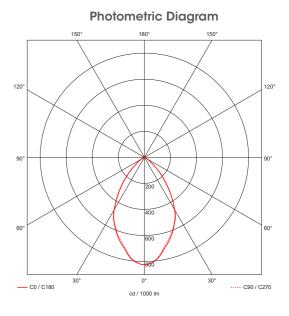


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BULKHEAD LUMINAIRES





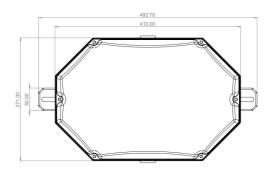


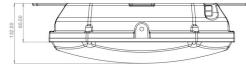
- Designed to be used in existing B40 luminaries
- High colour rendering index CRI > 80
- Colour temperature 4000K (3000K on request)
- Vossloh Schwabe LED modules and driver
- Ambient temperature: -25...+80°C
- Borosilicate glass cover available (ordered separately)



LASCON[®] B42 LEJ...



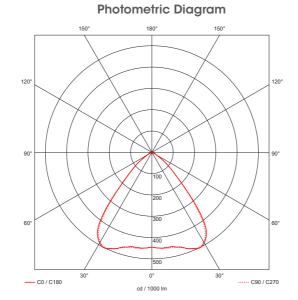




Life/Maintenance				
LED Driver Average Rated Life	50 000hrs			
LED Life	50 000hrs (L80 F10,TP 45°C)			

		Applications
•	Tunnel	 Industrial
	Conveyor	 Security

	Benefits	
5 year warranty	Built-in surge protection	

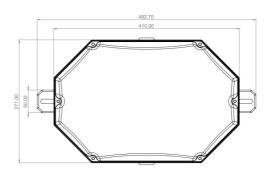


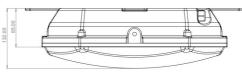
Luminaire efficiency: 92%

BULKHEAD LUMINAIRES









Life/Maintenance				
LED Driver Average Rated Life	50 000hrs			
LED Life	50 000hrs (L80 F10, TP 45°C)			

		Applications	
•	Tunnel	 Industrial 	
	Conveyor	Security	

	Benefits
• 5 year warranty	Built-in surge protection

Specification	Lumen @ System					Weight	
apecilication	45°C	Power	Factor	L	W	н	weigin
B43-34W-LED	4000	36.5W	0.95	410mm	271mm	132mm	3.5kg
B43-46W-LED	7495	50W	0.95	410mm	271mm	132mm	3.5kg
B43-71.5W-LED	10825	77W	0.95	410mm	271mm	132mm	3.5kg

|--|--|--|

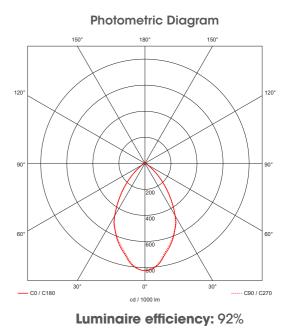
Specification	Lumen @	System Power			Weight		
specification	45°C	Power	Factor	L	W	н	weigili
B42-34W-LED	4000	36.5W	0.95	410mm	271mm	132mm	3.5kg
B42-46W-LED	7495	50W	0.95	410mm	271mm	132mm	3.5kg
B42-71.5W-LED	10825	77W	0.95	410mm	271mm	132mm	3.5kg



High colour rendering index CRI > 80 Colour temperature 4000K (3000K on request) Vossloh Schwabe main voltage (220-240V) LED module Ambient temperature: -25...+80°C LM6 high pressure die cast aluminium body Polycarbonate diffuser • 316 stainless steel screws and hell-coils • 3 x 20mm Ø cable entry knockouts and 1 x M20 threaded gland entry Mounting bracket available (ordered separately)

Product Features and Accessories

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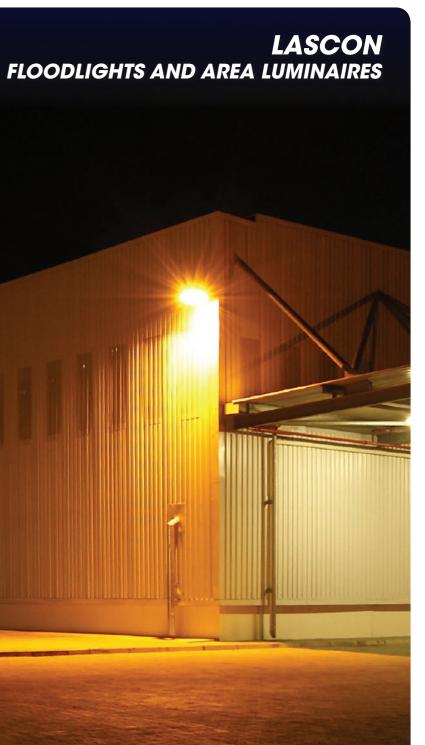


- High colour rendering index CRI > 80
- Colour temperature 4000K (3000K on request)
- Vossloh Schwabe main voltage (220-240V) LED module
- Ambient temperature: -25...+80°C
- LM6 high pressure die cast aluminium body
- Polycarbonate diffuser
- 316 stainless steel screws and hell-coils
- 3 x 20mm Ø cable entry knockouts and 1 x M20 threaded gland entry
- Mounting bracket available (ordered separately)



LASCON CATALOGUE

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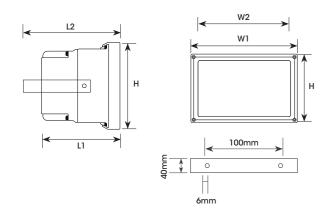
L18 FLOODLIGHT page 151

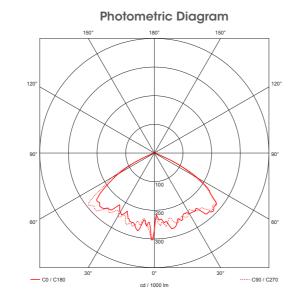


L20 FLOODLIGHT page 152

LASCON[®] L10 FLOODLIGHT LE







Luminaire efficiency: 92.5%





	Applications
SignagePerimeter	Architectural lightingSecurity
	Ropofite

Product Features and Accessories

- High colou
- Small colour tolerance MacAdam 3

- Dimensions Lumen System Power Specification Current Weight @ 45°C Power Factor L1 L2 W1 W2 Н L10-34W-LED 4640 36.5 0.95 700mA 158mm 215mm 280mm 265mm 180mm 3.9kg





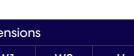
• Built-in surge protection



ur rendering	index CRI > 80	

```
Colour temperature 4000K (3000K on request)
```

- Vossloh Schwabe main LED module and driver
- LM6 marine grade aluminium
- Opal polycarbonate diffuser
- 316 stainless steel screws with heli-coils
- Chemically treated and epoxy powder coated
- 5 year anti-corrosion warranty IP65

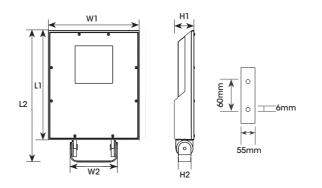




FLOODLIGHTS AND AREA LUMINAIRES

LASCON[®] L12 FLOODLIGHT LEJ...





Life/	'Maintenance				
LED Driver Average Rated Life	50 000hrs				
LED Life 50 000hrs @ 700mA (L80 F10,TP 45°C)					
Applications					
Parking areas	Architectural lighting				
• Perimeter	• Security				
	Benefits				
• 5 year warranty	Built-in surge protection				

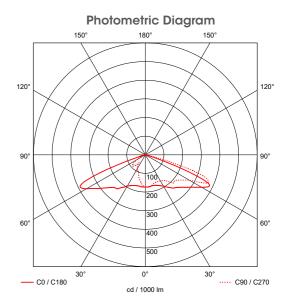
Specification	Lumen	System	Power	Current	Dimensions					Weight	
specification	@ 45°C	Power	Factor	Culleni	LI	L2	W1	W2	н1	H2	weigin
L12-50W-LED	6448	53.2W	0.95	700mA	350mm	421mm	290mm	151mm	62mm	40mm	4.75kg
L12-100W-LED	11916	104.4W	0.95	900mA	350mm	421mm	290mm	151mm	62mm	40mm	4.75kg



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5 year warranty





Colours available





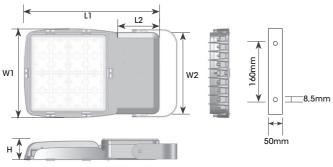


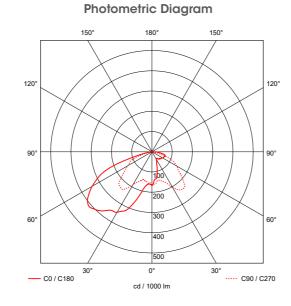
- High colour rendering index CRI > 80
- Colour temperature 3000K/4000K (5000K on request)
- Small colour tolerance MacAdam 3
- LM6 marine grade aluminium
- · Opal polycarbonate diffuser
- · 316 stainless steel screws with heli-coils
- Chemically treated and epoxy powder coated
- 5 year anti-corrosion warranty
- IP65
- 1 Way/2 Way pole mount bracket available on request



LASCON[®] L16 FLOODLIGHT LEJ







Luminaire efficiency: 92.5%

Life/Maintenance					
LED Driver Average Rated Life	50 000hrs				
LED Life	50 000hrs (L80 F10, TP 45°C)				

Applications						
	General floodlighting	Sports field lighting				
(.	Security	• Area				

	Benefits
• 5 year warranty	Built-in surge protection

Product Features and Accessories
Vossloh Schwabe LED modules and driver
High colour rendering index CRI > 80
Colour temperature 5000K available
LM6 die cast aluminium body
Hot dipped galvanised stirrup
316 stainless steel screws and heli-coils

• 316 stainless steel fasteners

Specification	Lumen	System	Power	Current		C	Dimension	IS		Weight
opeonication	@ 45°C	Power	Factor	Carlorn	LI	L2	W1	W2	Н	meigin
L16-125W-LED	18810	139.8W	0.95	900mA	467mm	143mm	306mm	281mm	65mm	6.5kg
L16-160W-LED	23920	179.2W	0.95	850mA	467mm	143mm	306mm	281mm	65mm	6.5kg
L16-200W-LED	28390	220.6W	0.95	1050mA	467mm	143mm	306mm	281mm	65mm	6.5kg



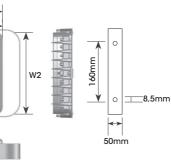


FLOODLIGHTS AND AREA LUMINAIRES

W1

LASCON[®] L18 FLOODLIGHT LEI





Life/M	laintenance
LED Driver Average Rated Life	50 000hrs
LED Life	50 000hrs (L80 F10, TP 45°C)

< <u>L2</u>

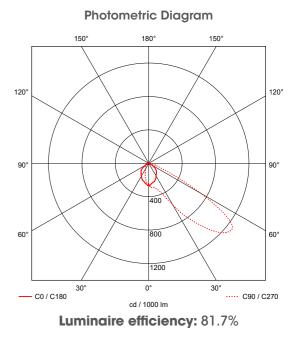
		Applications
•	General floodlighting	Sports field lighting
(•	Security	• Area

	Benefits	
• 5 year warranty	Built-in surge protection	

Specification		System	Power	Current	Dimensions					Weight
opeemeene	@ 45°C	Power	Factor	Cullen	LI	L2	W1	W2	н	Weight
L18-125W-LED	18810	139.8W	0.95	900mA	467mm	143mm	306mm	281mm	65mm	6.5kg
L18-160W-LED	23920	179.2W	0.95	850mA	467mm	143mm	306mm	281mm	65mm	6.5kg
L18-200W-LED	28390	220.6W	0.95	1050mA	467mm	143mm	306mm	281mm	65mm	6.5kg



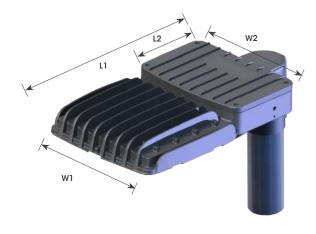
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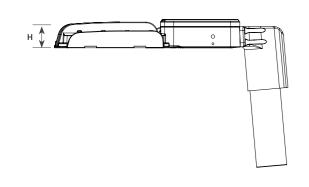


- Vossloh Schwabe LED modules and driver
- High colour rendering index CRI > 80
- Colour temperature 5000K available
- LM6 die cast aluminium body
- Hot dipped galvanised stirrup
- 316 stainless steel screws and heli-coils
- 316 stainless steel fasteners

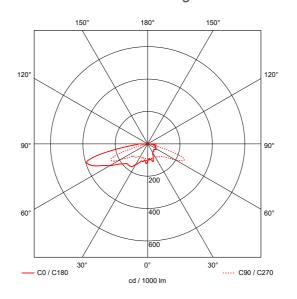


LASCON[®] L20 FLOODLIGHT LEJ





Photometric Diagram

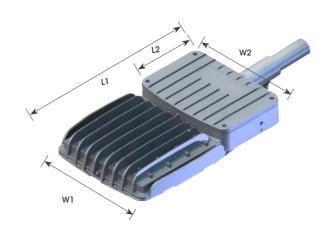


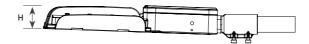
Luminaire efficiency: 83.9%

Product Features and Accessories

FLOODLIGHTS AND AREA LUMINAIRES

LASCON[®] L22 FLOODLIGHT LEI





Life/M	aintenance
LED Driver Average Rated Life	50 000hrs
LED Life	50 000hrs (L80 F10, TP 45°C)

		Applications
•	General floodlighting	Sports field lighting
(.	Security	• Area

	Benefits	
• 5 year warranty	Built-in surge protection	

Specification	Lumen	System	Power	Current		C	Dimension	S		Weight
opeemeenon	@ 45°C	Power	Factor	tor	LI	L2	W1	W2	Н	Weigin
L22-125W-LED	18810	139.8W	0.95	900mA	467mm	143mm	306mm	281mm	65mm	6.5kg
L22-160W-LED	23920	179.2W	0.95	850mA	467mm	143mm	306mm	281mm	65mm	6.5kg
L22-200W-LED	28390	220.6W	0.95	1050mA	467mm	143mm	306mm	281mm	65mm	6.5kg



Life/Maintenance 50 000hrs LED Driver Average Rated Life LED Life 50 000hrs (L80 F10, TP 45°C)

		Applications	
•	General floodlighting	Sports field lighting	
(.	Security	• Area	

	Benefits	
• 5 year warranty	Built-in surge protection	

Vossloh Schwabe LED modules and driver
High colour rendering index CRI > 80
Colour temperature 5000K available
LM6 die cast aluminium body
Hot dipped galvanised stirrup
316 stainless steel screws and heli-coils
316 stainless steel fasteners
76mm bottom entry LM6 spigot

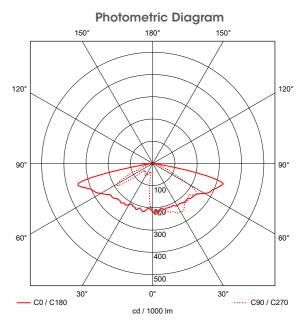
Specification	Lumen	System	Power Factor Current		C	imension	S		Weight		
	@ 45°C	Power		Factor	Factor	Culleni	LI	L2	W1	W2	н
L20-125W-LED	18810	139.8W	0.95	900mA	467mm	143mm	306mm	281mm	65mm	6.5kg	
L20-160W-LED	23920	179.2W	0.95	850mA	467mm	143mm	306mm	281mm	65mm	6.5kg	
L20-200W-LED	28390	220.6W	0.95	1050mA	467mm	143mm	306mm	281mm	65mm	6.5kg	



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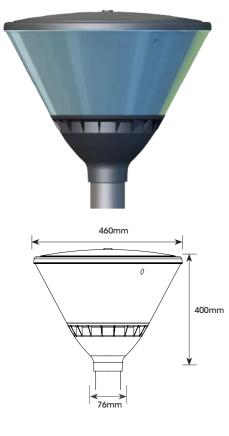


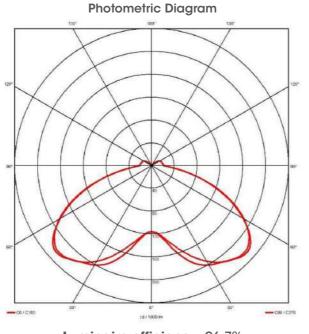
Luminaire efficiency: 91.6%

- Vossloh Schwabe LED modules and driver
- High colour rendering index CRI > 80
- Colour temperature 5000K available
- LM6 die cast aluminium body
- Hot dipped galvanised stirrup
- 316 stainless steel screws and heli-coils
- 316 stainless steel fasteners
- 42mm side entry LM6 spigot



LASCON[®] LUCCA POST TOP LEI





Luminaire efficiency: 96.7%

Life/Maintenance			
LED Driver Average Rated Life	60 000hrs		
LED Life	60 000 hrs @700mA (L80 F10)		

		Applications
	Parking areas	Shopping malls
(.	Malls	• Parks

Product	Features	and Ac	cessories

- High Colour Rendering Index CRI > 80
- Colour Temperatures 4000K
- Small colour tolerance MacAdam 3
- 5 Year anti-corrosion Warranty
- LM6 marine grade aluminium spigot

Polycarbonate diffuser and polycarbonate lid totally enclosed no entry from the lid. Entry only from the base of the spigot.
IP65

Specification	Lumen	System	Power	Current		Dimensions		Weight
specification	@ 45°C	Power	Factor	for	Diameter Top	Bottom Entry	Н	weigin
LUCCA-35W-LED	4200	35W	0.98	700mA	460mm	76mm	400mm	4kg
LUCCA-50W-LED	6823	55W	0.98	550mA	460mm	76mm	400mm	4kg







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NOTES







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GESM - LINE VOLTAGE

SENSOR page 158

CEILING AND WALL MOUNT ACCESSORIES page 171

HBA WASP2™ page 172

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OMNIUS | OMNIUSRP page 166







OMNIDT | OMNIDTRP page 168

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LASCON CATALOGUE

GESM - LINE VOLTAGE SENSOR

Detection sensibility

Optimised for detection of pedestrians with a speed of 0.5 - 1.5 m/s corresponds to 1.8 - 5.4 km/h. Depending on the application and environmental conditions, the maximum detectable speed of object may vary.

GESM - SURFACE MOUNTED PIR MOVEMENT SENSOR

Overview

The GESM movement sensor is designed to provide automatic control of lighting, heating or ventilation loads. It detects movement using a PIR sensor and turns the load on. When an area is no longer occupied, the load will switch off after an adjustable time out period.

An adjustable internal light sensor provides additional energy saving in lighting applications. When an area is occupied, lighting is only switched on when the level of natural light falls below a preset level.

When the sensor is first powered up, the PIR sensor will always detect immediately regardless of whether the room is occupied.



Features

PIR Sensor

Detects movement within the sensor's detection range allowing load control in response to changes in occupancy. Light Level Sensor

- Measures the overall light level in the detection area. • LED
- The red LED is used for feedback information during Setup. See Setup section on page 159.
- Power Input and Switched Output Connector Used to connect mains power to the sensor and to connect a switched load.
- Lux Button Use to set the Lux level for Lux switching. See Setup
- section on page 159. Time Button

Use to set the time delay after which the load switches off when an area is vacated. See **Setup** section on page 159.

Front features



Back features

Power Input and Switched Output connections

DIGITAL CEILING SENSORS

GESM - LINE VOLTAGE SENSOR

Sensor functionality

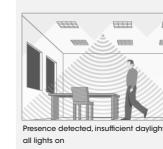
Movement detection

When movement is detected, the load will automatically turn on.

When the area is no longer occupied, the load will automatically switch off after an adjustable time period.

Lux level switching

The GESM has a built-in adjustable lux sensor which will keep the lighting switched off if there is sufficient natural light. The Lux level is set using the Lux Button on the front of the sensor.



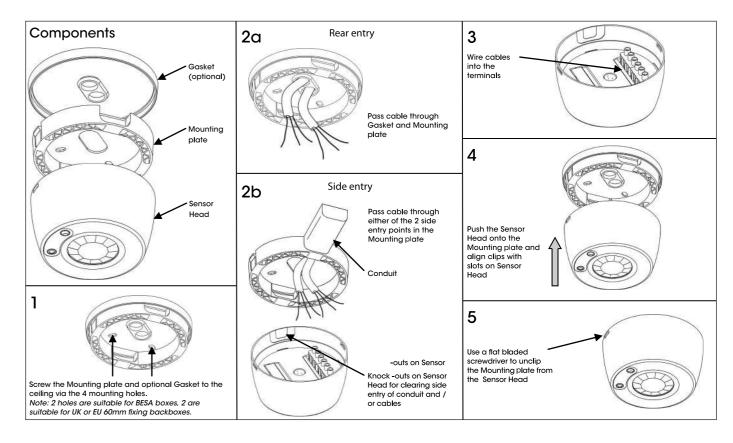
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Installation

Choosing a suitable location

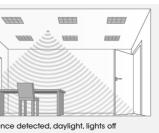
The GESM is designed to be ceiling mounted and must satisfy the following criteria:

- The sensor should be sited so that the occupants of the room fall inside the detection pattern (see above) at a recommended height of 2.8m on the ceiling. Note that the lower the sensor is installed, the smaller the detection range will be subject to the parameters shown on the diagram
- · Avoid positioning the sensor where direct sunlight may enter the sensor element.
- · Do not site the sensor within 1m of any lighting, forced air heating or ventilation.
- · Do not fix the sensor to an unstable or vibrating surface.



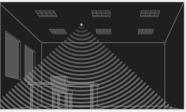
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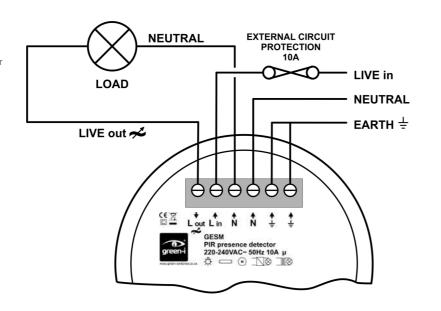


No presence detected, lights of

GESM - LINE VOLTAGE SENSOR

Wiring diagram

Note: To switch from more than one position simply wire two or more sensors in parallel.



Power-up test procedure

- Power the sensor up the load should come on immediately.
- Set the Lux level to maximum and the time to minimum.
- · Vacate the room or remain very still and wait for the load to switch off (should take no more than 2 minutes).
- · Check that the load switches on when movement is detected.
- To set the final Lux level, wait until the level of natural daylight is such that lighting is required. Starting with the Lux control at minimum, slowly increase the Lux until the lights come on. Note that when the Lux control is at maximum, the lights will always come on with occupancy. Set the time required.

Setup

To program a Time or Lux setting

- Press and release either the Time or Lux Button guickly (presses within 1 second of each other) to access 1 of 5 settings. 1 second after the switch has been released the LEDs will flash to signal which setting has been loaded.
- To find out what the Lux or Time has been set to • Press either switch for more than 3 seconds then release.
- The LED will flash to signify the setting.

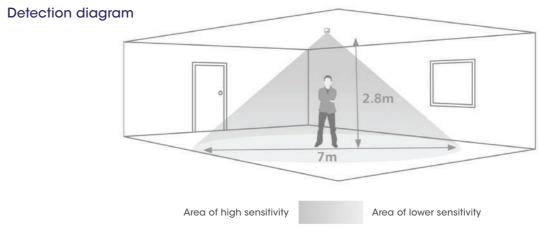
To lock the programmed settings

- Use to stop accidental re-programming of the sensor.
- Press either switch for more than 10 seconds and do not release. It will toggle between lock and unlock. If the sensor was unlocked, whilst the button is pressed the LED will be lit, after 10 seconds it will extinguish. If the sensor is locked, the LED will flash once after 10 seconds.

Button presses	LED flashes	Time 🕥	Lux
1	茶	10 seconds	1 (minimum)
2	漱 璇	5 minutes	3
3	* * * *	10minutes	5
4	* * * * * *	20 minutes (default)	7
5	**	30 minutes	9 (default) Always on / lux disabled

DIGITAL CEILING SENSORS

GESM - LINE VOLTAGE SENSOR



Technical data

Dimensions	See diagrams opposite
Weight	0.15kg
Supply voltage	230VAC +/- 10%
Frequency	50Hz
Circuit protection	10A
Maximum load	10 Amp resistive and incandescent lighting
	6 Amp fluorescent lighting and resistive
	3 Amp compact fluorescent lighting
	3 Amp low energy lighting
	3 Amp low voltage lighting (switch
	primary of transformer)
	Fluorescent lighting (max 6 fittings
	recommended)
	For fluorescent lighting, total power
	factor correction capacitance must
	not exceed 40µF.
	3 Amp fans and ventilation equipment
	Switch ON lighting loads via a
	contactor minimum load 100mA
Power consumption	On 572mW, Off 670mW
Terminal capacity	2.5mm ²
Temperature	-10°C to 35°C
Humidity	5 to 95% non-condensing
Material (casing)	Flame retardant ABS and PC/ABS
Туре	Class 2
IP rating	40 without gasket. 54 with gasket
Compliance	EMC-2004/108/EC
	LVD-2006/95/EC

Fault finding

range.

What if the load does not turn ON?

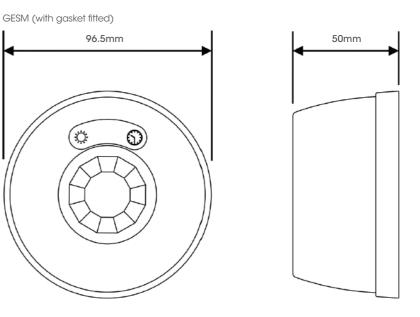
- · Check to see if the live supply to the circuit is good. Strap across the L and LIVE OUT terminal to turn the load on.
- If the supply and wiring are good, check the Lux level setting. Increase the Lux level setting to allow the controller to turn on at higher ambient natural light level
- If the detection range is smaller than expected, check the Detection Diagram on the opposite page. Rotating the sensor slightly may improve the

What if the load does not turn OFF?

- Ensure that the area is left unoccupied for longer than the Time Out Period.
- Ensure that the sensor is not adjacent to circulating air, heaters or lamps.

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IMPORTANT NOTICE!

This device should be installed by a qualified electrician in accordance with the latest edition of the IEE Wiring Regulations and any applicable Building Regulations.

TECHNICAL INFORMATION HUBBELL

A name you can trust - Hubbell

Founded in 1888 by Harvey Hubbell II, Hubbell Inc. has been a long-time contributor to new product design and manufacturing innovation. In 1896, Hubbell invented the world's first lighting control device, the pull chain switch.

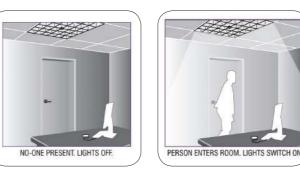
Over 100+ years later, Hubbell Building Automation, headquartered in Austin, Texas, continues this tradition of innovation with the development of a vast array of energy saving lighting controls.

Innovative occupancy sensors

Hubbell Building Automation sets the standard. Few people realise that traditional occupancy sensors need adjustment throughout the year when seasons change, airflow is modified and furniture layout or occupancy patterns change. If sensors are not constantly monitored and adjusted, your energy savings objectives will not be met. HBA realised this and was the first to introduce the industry's first self-adapting sensor. HBA's patented IntelliDAPT® technology is the key to maximising energy savings - from open offices to the manufacturing floor. Digital microprocessor technology makes all sensor adjustment decisions. Smart software monitors the controlled area, and makes sensitivity and timer adjustments automatically. Occupancy sensors with IntelliDAPT provide maintenance free "Install and Forget" operation.

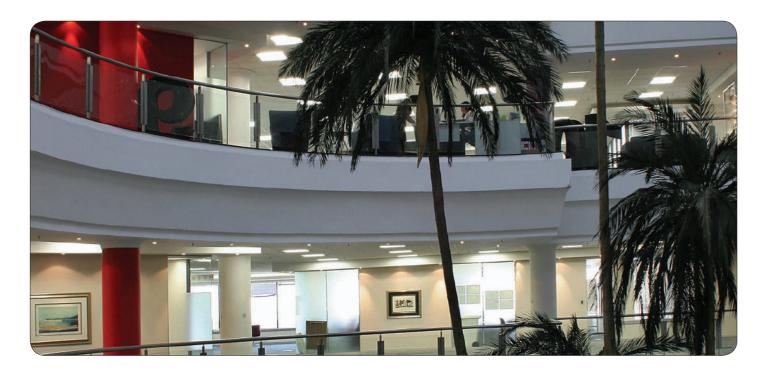
Smart technology for today's needs

IntelliDAPT Technology is an HBA patented innovation that delivers benefits to both building owners and occupants. The building owner achieves reduced energy costs, fewer adjustments and less maintenance while the building occupant experiences fewer false on and offs and disturbances. IntelliDAPT Technology occupancy sensors use microprocessors that make all the decisions for setting adjustments. Internal software constantly monitors the controlled area and automatically adjusts the sensitivity and timer based on environmental history. This means that instead of manually





adjusting the sensor for seasonal changes, modified airflow, furniture layout or occupancy pattern changes, the sensor automatically adjusts itself. These automatic adjustments eliminate the need for multiple manual adjustments by maintenance personnel or outside contractors. HBA offers IntelliDAPT Technology throughout its product offering - wall switches, ceiling and wall mount sensors - in conjunction with dual technology, ultrasonic and passive infrared products.



HUBBELL

How to select the right technology for the proper application

Passive infrared (PIR) technology senses occupancy by detecting the movement of heat emitted from the human body against the background space. Unlike US technology, PIR sensors require an unobstructed line-of-sight for detection. These sensors use a segmented lens which divides the coverage area into zones. Movement between zones is then interpreted as occupancy. PIR sensors are ideal for detecting major motion (e.g. walking) and they work best in small, enclosed spaces with high levels of occupant movement.

Benefits:

Long range detection

DIGITAL CEILING SENSORS

- Reliable triggering
- Cost efficient

Ultrasonic (US) technology senses occupancy by bouncing sound waves (32kHz or 45kHz) off of objects and detecting a frequency shift between the emitted and reflected sound waves. Movement by a person or object within a space causes a shift in frequency which the sensor interprets as occupancy. While US occupancy sensors have a limited range, they are excellent at detecting even minor motion such as typing and filing and they do not require an unobstructed line-of-sight. This makes US technology sensors ideal for an application like an office with cubicles or a restroom with stalls.

Benefits:

- Detects small motion
- Sees around obstructions
- Cost efficient

Dual technology occupancy sensors combine both passive infrared (PIR) and ultrasonic (US) technologies for maximum reliability. Because US and PIR need to both detect occupancy to turn lighting on, dual technology sensors minimise the risk of lights coming on when the space is unoccupied - false triggering. Continued detection by only one technology then keeps lighting on as necessary. Dual technology sensors offer the best performance for most applications.

Benefits:

- · Track occupancy on with two sensing methods
- Minimises false triggering
- · Consistent, reliable operation

Product Image

"Quick To Install" says it all. Capable of interconnecting a sensor and power pack in a fraction of the time. The QTI connector eliminates low-voltage wiring nuts to ensure errorfree connections. The QTI system saves time and money, a 25% savings in labor costs alone, and the elimination of call backs and costly troubleshooting. The QTI system is available on most Hubbell Building Automation low-voltage sensors and power packs.

Kev Features

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TECHNICAL INFORMATION



Passive Infrared (PIR)



Ultrasonic (US)



Dual Technology

· Dramatically reduces installation cost

· Easy to install; fast and efficient

Completely removable and reusable if necessary

Eliminates need for large spools of cable for installation of plenum cable runs

Reduces possibility of transposing wires as in

conventional splicing wire terminations

Standard features on OMNIUS, OMNIR, LODT and UVPP.



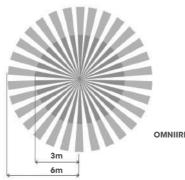
OMNIIRL | OMNIIRLRP HUBBELL

OMNI™ PASSIVE INFRARED CEILING SENSOR FEATURING IntelliDAPT®

Key features

- IntelliDAPT self-adaptive technology no manual adjustment required
- All-digital passive infrared (PIR) sensor
- Non-volatile memory for sensor settings
- 139 square-metre coverage area (depending on model)
- Optional relay and photocell control
- Quick to Install (QTI) connector
- Uses UVPP Power Pack not included

Range Diagram



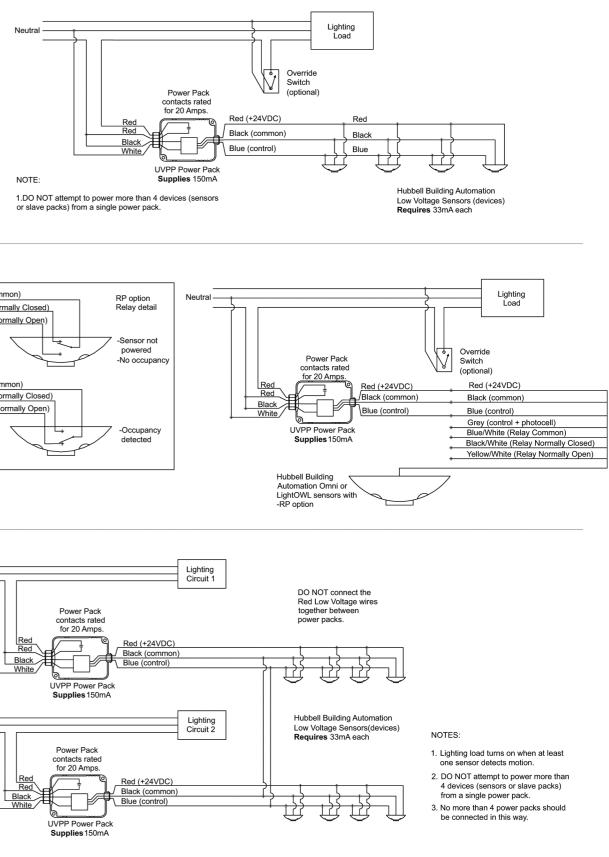


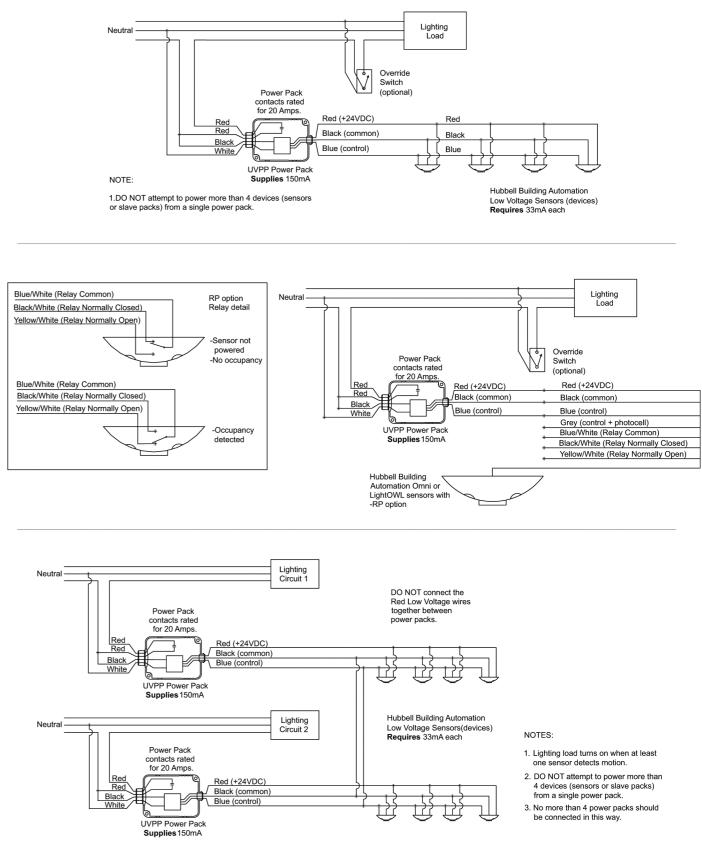
	Specifications
IntelliDAPT technology	Auto reset from test setting Self-adjusting timer Self-adjusting ultrasonic and passive infrared thresholds Automatic false-on/false-off corrections
LED lamp	Red – infrared motion Green - ultrasonic motion
Timer timeout	Automatic mode: 8–30 minutes. (self-adjusts based on occupancy) Test mode: 8 seconds (for an easy check at installation)
Passive infrared (PIR)	Dual-element pyrometer and 12-element cylindrical rugged lens
RP option	Relay and photocell included Relay: NO + NC contacts; SPDT; 500 mA rated @ 24VDC; three-wire isolated relay Photocell: adjustable natural-light override ranges from 0–1,000 lux
Coverage	139.35m ² (depending on model)
Power requirements	24 VDC, 33mA (uses UVPP Power Pack – not included)
Output	24 VDC active high-logic control signal with short circuit protection and optional dry contact (see: RP option)
Operating environment	Indoor use only Operating temperature: 0° – 40°C 0% to 95% relative humidity, non-condensing
Construction	Casing – rugged, high-impact, injection-molded plastic KJB ABS Cycolac (UL-945VA) flame class rating, UV inhibitors Colour-coded leads are 152.4mm long
Size and weight	Size: 114mm diameter, 38mm height Weight: 142g
Colour	Off - white
Mounting	Mounting base provided Recommended maximum mounting height: 3.65m
Warranty	5 years

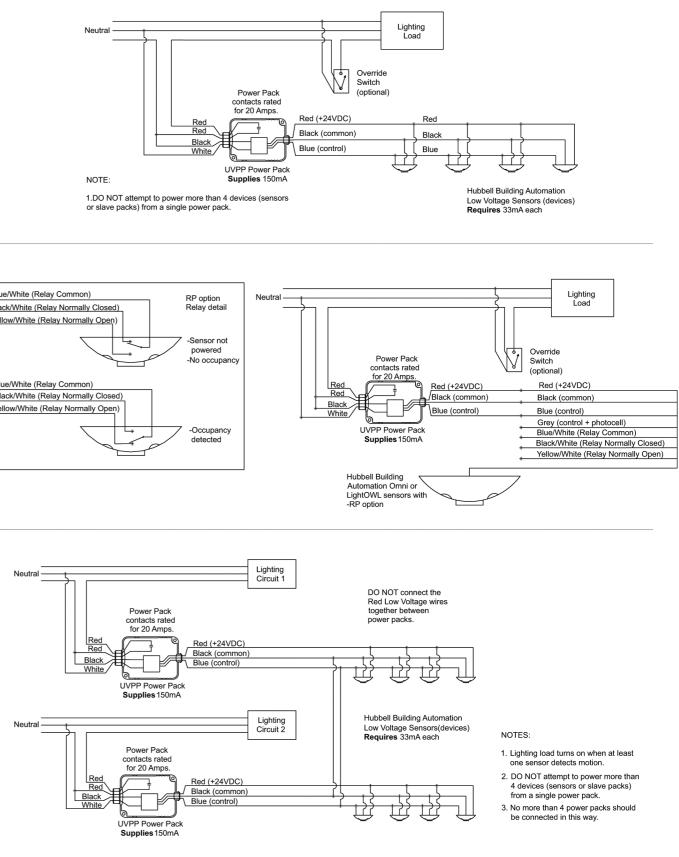
DIGITAL CEILING SENSORS



Wiring Diagram







LASCON CATALOGUE

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OMNIUS | OMNIUSRP HUBBELL

Range Diagram

20r

OMNIUS2000 Range

Diagram

5m

OMNIUS2000 Range Diagram

Hallway application

OMNI™ ULTRASONIC CEILING SENSOR FEATURING IntelliDAPT®

Key features

7m

10m

OMNIUS1000 Range

Diagram

- IntelliDAPT self-adaptive technology no manual adjustment required
- All-digital ultrasonic (US) technology
- Non-volatile memory for sensor settings
- 92 185 square-metre coverage area (depending on model)
- Optional relay and photocell control
- Quick to Install (QTI) connector
- Uses UVPP Power Pack not included

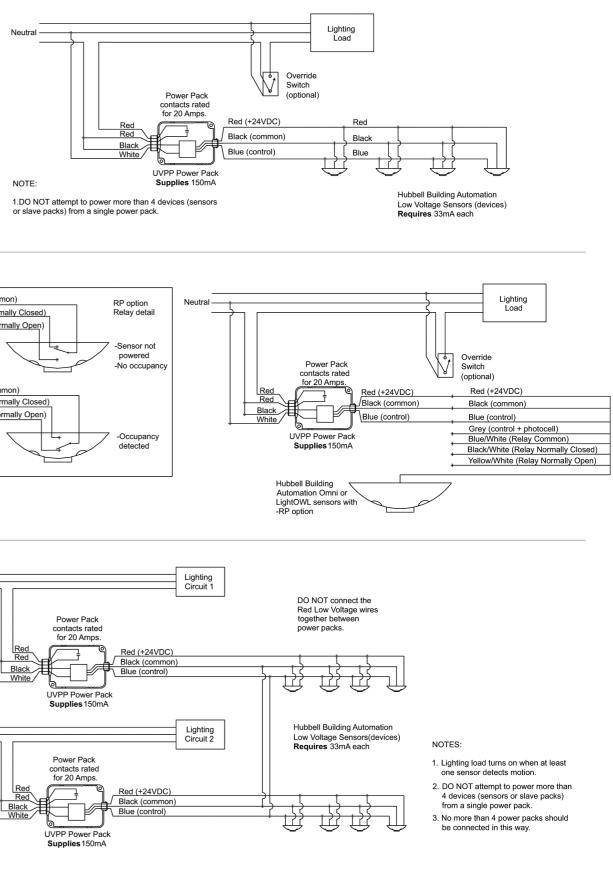


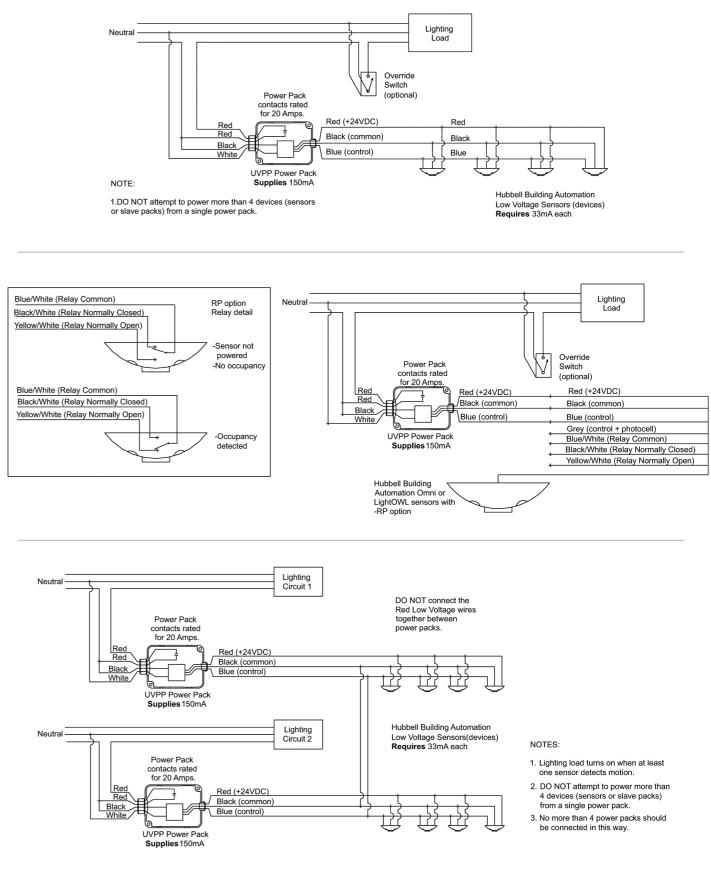
	Specifications
IntelliDAPT technology	Auto reset from test setting Self-adjusting timer Self-adjusting ultrasonic and passive infrared thresholds Automatic false-on/false-off corrections
Timer timeout	Automatic mode: 8–30 minutes. (self-adjusts based on occupancy) Test mode: 8 seconds (for an easy check at installation)
Ultrasonic (US) output	OMNIUS1000 and OMNIUS2000: 32kHz output
RP option	Relay and photocell included Relay: NO + NC contacts; SPDT; 500 mA rated @ 24VDC; three-wire isolated relay Photocell: adjustable natural-light override ranges from 0–1,000 lux
Coverage	92 – 185m² (depending on model)
Power requirements	24 VDC, 33mA (uses UVPP Power Pack – not included)
Output	24 VDC active high-logic control signal with short circuit protection and optional dry contact (see: RP option)
Operating environment	Indoor use only Operating temperature: 0° – 40°C 0% to 95% relative humidity, non-condensing
Construction	Casing – rugged, high-impact, injection-molded plastic KJB ABS Cycolac (UL-945VA) flame class rating, UV inhibitors Colour-coded leads are 152.4mm long
Size and weight	Size: 114mm diameter, 38mm height Weight: 142g
Colour	Off - white
Mounting	Mounting base provided Recommended maximum mounting height: 3.65m
Warranty	5 years

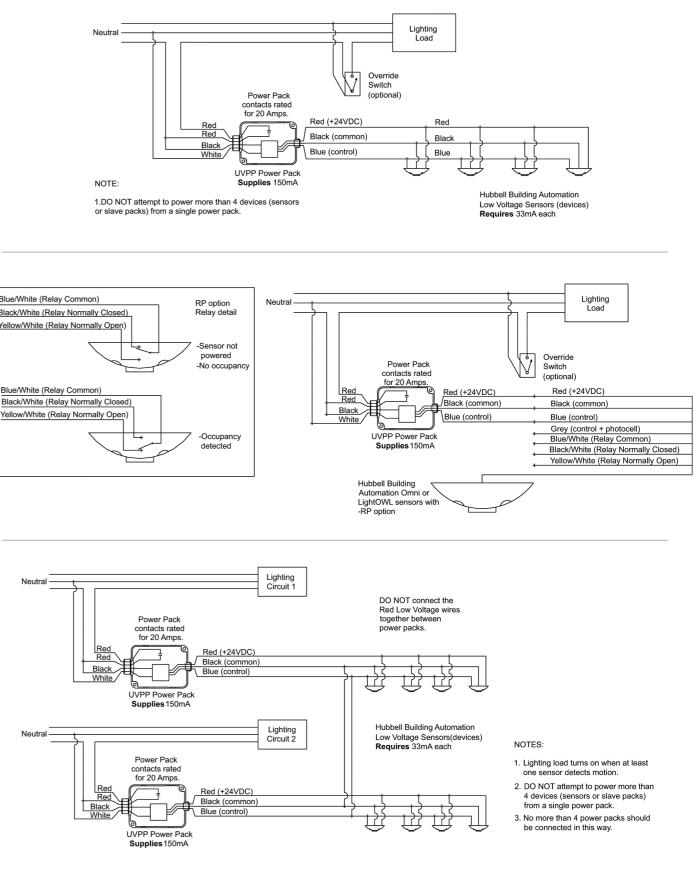
DIGITAL CEILING SENSORS



Wiring Diagram







LASCON CATALOGUE

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DIGITAL CEILING SENSORS

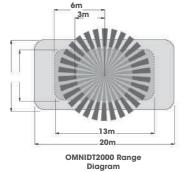
OMNIDT | OMNIDTRP HUBBELL

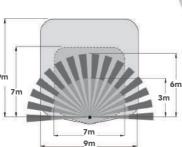
OMNI™ DUAL TECHNOLOGY ULTRASONIC AND PASSIVE INFRARED CEILING SENSOR FEATURING IntelliDAPT®

Key features

- IntelliDAPT self-adaptive technology no manual adjustment required
- All-digital dual technology (ultrasonic [US] and passive infrared [PIR]) sensor
- Non-volatile memory for sensor settings
- 92-185 square-metre coverage area (depending on model)
- Optional relay and photocell control
- Quick to Install (QTI) connector
- Uses UVPP Power Pack not included

Range Diagram





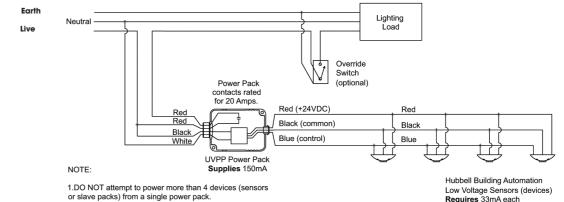
OMNIDT1000 Range Diagram

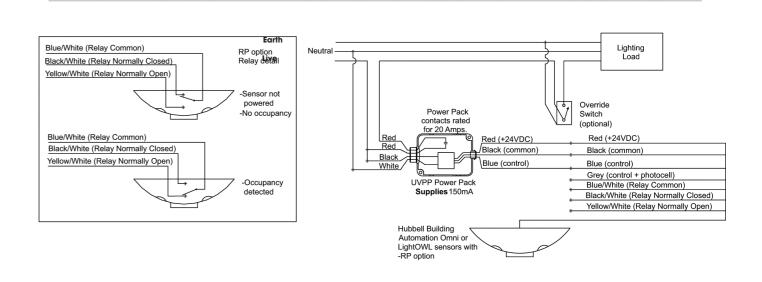
	Specifications
IntelliDAPT technology	Auto reset from test setting Self-adjusting timer Self-adjusting ultrasonic and passive infrared thresholds Automatic false-on/false-off corrections
Timer timeout	Automatic mode: 8–30 minutes. (self-adjusts based on occupancy) Test mode: 8 seconds (for an easy check at installation)
Ultrasonic (US) output	OMNIDT1000 and OMNIDT2000: 32kHz
Passive infrared (PIR)	Dual-element pyrometer and 12-element cylindrical rugged lens
RP option	Relay and photocell included Relay: NO + NC contacts; SPDT; 500 mA rated @ 24VDC; three-wire isolated relay Photocell: adjustable natural-light override ranges from 0–1,000 lux
Coverage	92 - 185m² (depending on model)
Power requirements	24 VDC, 33mA (uses UVPP Power Pack - not included)
Output	24 VDC active high-logic control signal with short circuit protection and optional dry contact (see: RP option)
Operating environment	Indoor use only Operating temperature: 0° – 40°C 0% to 95% relative humidity, non-condensing
Construction	Casing – rugged, high-impact, injection-molded plastic KJB ABS Cycolac (UL-945VA) flame class rating, UV inhibitors Colour-coded leads are 152.4mm long
Size and weight	Size: 114mm diameter, 38mm height Weight: 142g
Colour	Off - white
Mounting	Mounting base provided Recommended maximum mounting height: 3.65m
Warranty	5 years

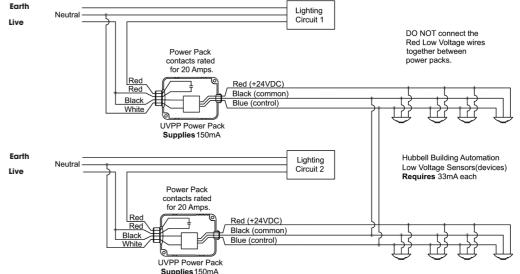
DIGITAL CEILING SENSORS



Wiring Diagram







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Low Voltage Sensors (devices) Requires 33mA each

NOTES

- 1. Lighting load turns on when at least one sensor detects motion.
- 2. DO NOT attempt to power more than 4 devices (sensors or slave packs) from a single power pack.
- 3. No more than 4 power packs should be connected in this way.



UNIVERSAL VOLTAGE POWER PACK

Key features

- Power pack can switch up to 4 ceiling sensors
- Universal voltage (100-277 VAC; 50/60Hz)
- Automatic voltage detection
- Electrical load switching capability: maximum of 20 Amps
- Regulated 24 VDC current; 150mA output; short circuit protected
- Zero Arc Point Switching
- Plenum rated
- Mounts: inside or outside a junction box; inside a fluorescent ballast cavity
- Complete with exclusive Quick to Install (QTI) connector



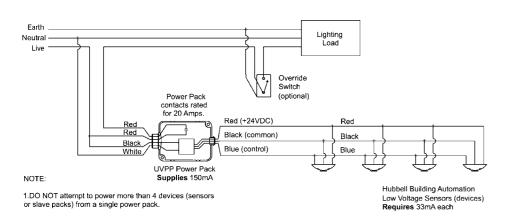


CEILING AND WALL MOUNT ACCESSORIES



Specifications				
Power requirements	100–277 VAC; 50/60Hz Single phase only			
Output	24 VDC; 150mA nominal, isolated and regulated			
Relay contact rating	20A: 120 VAC Incandescent 20A: 120 or 277 VAC Ballast 745W: 120 or 277 VAC Motor Load			
Construction	High-impact UL 94-5V plastic			
Plenum rated	Complies with requirements for use in a plenum area Plenum rated for external junction box mounting			
Operating environment	Indoor use only Operating temperature: 0° – 40°C 0% to 95% relative humidity, non-condensing			
Size and weight	Size: 93.92mm x 59.18mm x 34.54mm			
Colour	Black			
Warranty	5 years			

Wiring Diagram



	specifica
CAB10	3m Plenum rated, 3 Core 3 Con
CAB20	6m Plenum rated, 3 Core 3 Con
S1M2F	Splitter 1 male, 2 female, QTI sys
OPE	OMNI protective enclosure
WGWS	Wire guard for wall switches
WGOMNI	Ceiling mount guard for OMNI
TD200 Digital	Programmable timer
WGLO	Wire guard for LightOWL sensors

Note:

- Available on request



CAB IO/20

ations

nductor QTI cable

onductor QTI cable

rstem

sensors

rs



LED HIGH BAY OCCUPANCY SENSORS

The HBA WASP2 LED High Bay Occupancy Sensor is specifically designed for ON/OFF control of high bay fixtures in warehouses, distribution centers and even in offices. The sensor is available in end mount and surface mount versions with either single or dual outputs. All WASP2 sensors feature a daylight sensor which can be used to increase energy savings by turning off lights when there is sufficient natural light.

Key features

- IntelliDAPT self-adaptive technology no manual adjustment required
- All-digital ultrasonic (US) technology
- Non-volatile memory for sensor settings
- 92 185 square-metre coverage area (depending on model)
- Optional relay and photocell control
- Quick to Install (QTI) connector
- Uses UVPP Power Pack not included

Lens options (ordered seperatley)







End mount





∆isle I er





180° Area Lens

DIGITAL CEILING SENSORS

HBA WASP2™ HUBBELL

	Specifico
Load ratings (Line voltage sensors)	120VAC: 0-800W ballast or 0-600 277VAC: 0-1200W ballast 347VAC: 0-1500W ballast 208/240VAC: 0-1200W ballast 480VAC: 0-2400W ballast QuarterHP motor load @ 120VA
User interface	Twelve pin dip switch*
Timer timeout	Primary: 8 second test mode - 4 Secondary: Can be disabled (s
Passive infrared	Dual element pyrometer and sp person*
Daylight Sensor	Range 300 - 25 000 LUX End mount sensor: Downward a Surface mount sensor: Downwa
Interchangeable lens options and coverage	Lens option: 360° area lens, aisl (lenses sold seperatley - not inc All lenses provide 1.4:1 coverag
Power requirements	Line Voltage sensors: 120/277/3 Low voltage: 24 VDC, 33mA
Output	24 VDC active high-logic contro
Operating environment	Standard version: Indoor use or Operating temperature: 0° - 65 0% to 95% relative humidity, non Low temperature/Water tight ve
Construction	Sensor Module and Lens Assem
Size and weight	Size: 101.6mm diameter, 38.1m Weight: 198g
Colour	White
Mounting	Surface mount sensor: Mounts locking nuts End mount sensor: Mounts dire
Warranty	5 years

Note:

* When used with warm start ballast, a 1-2 second delay from occupancy detection to lamp turn-on may be experienced.

errore: subject to any applicable laws from time to time: (1) All the product images shown in this catalogue are for marketing purposes and may differ from the actual product. Dimensions are generally shown in mm. (2) All factual information in tatlogue was correct at the time of going to print and is subject to change without prior notice. Minimum quantity orders may apply. Errors and Omissions Excepted. (Voltex (Pb) Ltd and its Marketing Agency do not accept responsibility or liability for correct listing of any merchandise or information. Voltex Terms & Conditions of Sale which can be found at www.voltex.co.za and the Disclaimer which is set out at the end of this catalogue apply.

ations

00W tungsten, 60Hz

AC, 1/6HP @ 347VAC

4, 8, 16 and 30 min timeouts (switches off with primary timer) - 30, 60 and 90 min timeouts spherical Fresnel lens designed for robust detection of a walking

and upward looking daylight sensors (Direction selectable via dip switch) vard looking daylight sensor only

isle lens, half aisle lens and 180° area lens ncluded with sensor module) ige up to 9m, 1.1:1 coverage 9m-13m /347 VAC

trol signal with short circuit protection and optional dry contact

only 5°Ć on-condensing

version: Indoor use only

embly - high impact, injection-molded plastic

mm height

directly to fixture or j-box via 2 x 31.75mm stainless steel screws and

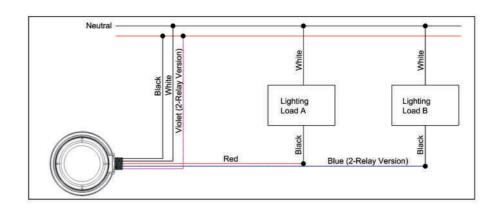
rectly to end of fixture through extended chase nipple



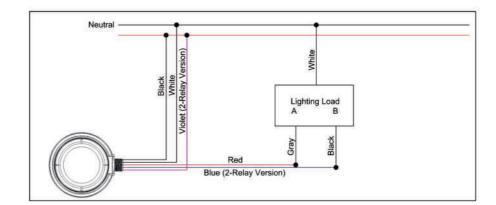
Sensor Lens Coverage and Detection Patterns (when mounted at 9m and 13m)



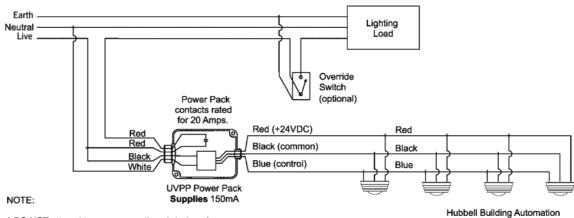
Wiring Diagram



Wiring Diagram A - 120/277/347VAC Line voltage wiring diagram for single and dual relay sensors (Single Phase Only)

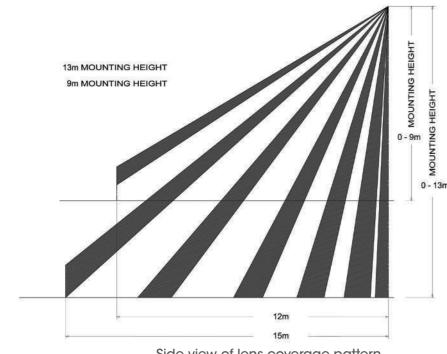


Wiring Diagram A -B120/277/347VAC Line voltage wiring diagram for connecting a dual relay sensor to a switching ballast. Note: Disable Smart Cyclingg for this configuration.

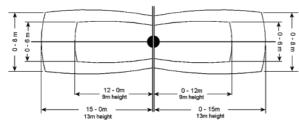


1.DO NOT attempt to power more than 4 devices (sensors or slave packs) from a single power pack.

Wiring Diagram C - Low voltage sensor wiring diagram.



Side view of lens coverage pattern



Top view of aisle lens coverage pattern

LASCON CATALOGUE

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Low Voltage Sensors (devices) Requires 33mA each

DIGITAL LUMINAIRE SENSOR

luxCONTROL lighting control system SWITCH sensors

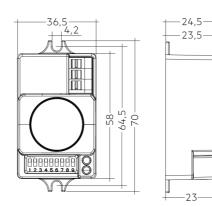
smartSWITCH HF 5DP f

Automatic switching based on motion and light level

Product description

- Motion detector for luminaire installation
- Motion detection through glass and thin materials (except metal)
- For automatic on/off switching of electronic ballasts
- Bright-out function: luminaire is not switched on if there is adequate brightness
- · Delay time, detection range and light value for the bright-out function can be set via 9 dip switches
- Maximum installation height 5m
- Two housing options allowing flexible installation
- Variable detection area (100 10 %)
- Zero cross switching supported
- 5 year guarantee

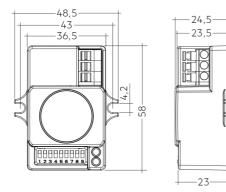
Technical Data					
Rated supply voltage	220 - 240V				
Mains frequency	50Hz				
Power	< 0.5W				
Frequency	5.8GHz (75 MHz)				
Transmission power	< 0.2mW				
Load resistive	800W				
Load capacitive	400VA				
Detection angle	30 – 150°				
Max. detection area at 3m mounting height	ø = 7m				
Max. mounting height	5m				
tc	85 °C				
Ambient temperature ta	-20 +70 °C				
Storage temperature ts	-20 +70 °C				
Humidity	min. 5% max. 85% at 30°C				
Type of protection	IP20				
Protection class	Reinforced insulation				
Casing material	PC, halogen-free				
Casing colour	RAL 9016 (white)				



smartSWITCH HE 5DP f

smartSWITCH HE 5DP S f

smartSWITCH HF 5DP f



smartSWITCH HF 5DP S f

Ordering Data						
Туре	Article Number	Dimensions L x W x H	Packaging, Carton	Weight per Piece		
smartSWITCH HF 5DP f	28002214	70 x 36.5 x 24.5mm	5 pieces	0.040 kg		
smartSWITCH HF 5DP S f	28002235	58 x 48.5 x 24.5mm	5 pieces	0.040 kg		

DIGITAL CEILING SENSORS

DIGITAL LUMINAIRE SENSOR

luxCONTROL lighting control system SWITCH sensors

smartSWITCH HF 5DP f

Standards

EN 61347-1 EN 61347-2-11 EN 300 440-2 V1.4.1 (2010-08) EN 301 489-3 V1.6.1 (2013-08) EN 62479:2010 EN 55015:2013 + A1:2015 EN 61000-3-2:2014 EN 61000-3-3:2013 EN 61547:2009

1.1 Glow-wire test according to EN 60598-1 850 °C passed

Common

smartSWITCH HF 5DP f and S f provides simple cost-effective motion detection in combination with the corridorFUNCTION offered by Tridonic electronic control gear.

When the sensor detects movement it triggers a predefined motion detection profile in the control gear.

If the user-definable light value at the integrated light sensor is exceeded, the control gear remains switched off.

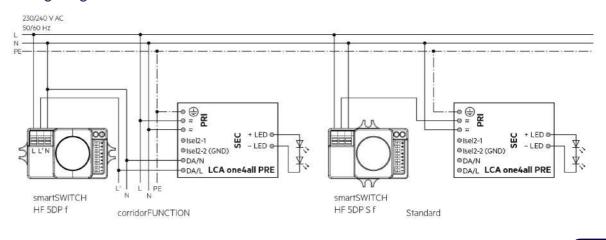
High-frequency technology enables the sensor to be installed in completely enclosed luminaires.

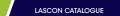
Installation

Α • Not for use with phase cut dimmers

- The sensor must protrude over the light sources
- The power supply must be disconnected before installation
- Suitable for installation only in indoor luminaires (e.g. corridors and closed parking garage) without vibration
- Opening angle of the sensor: must be at least 45%
- Motion detection: only possible through thin housing material (e.g. plastic or glass), do not use metal housing
- · Light sensor: must be able to detect reflected artificial light and reflected daylight
- Reflected HF waves (e.g. of walls, floors, ceilings or furniture) from other transmitters affect motion detection

Wiring diagram



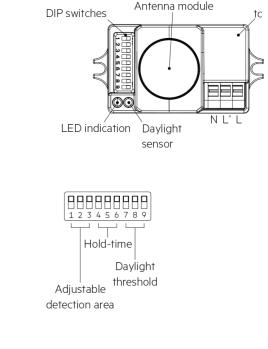


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as correct at the time of going to print and is subject to change without prior notice. Minimum quantity orders may apply. Errors and Omissions Excepted. Voltex (Pty) Ltd and its Marketing ting of any merchandise or information. Voltex Terms & Conditions of Sale which can be found at www.voltex.co.za and the Disclaimer which is set out at the end of this catalogue of the catalogue of any merchandise or information.



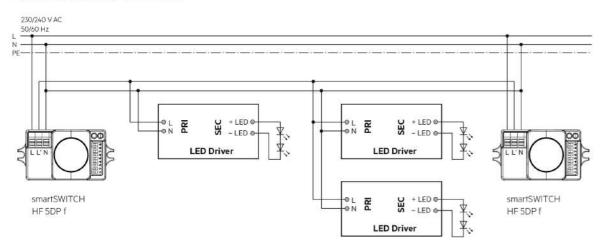
Automatic switching based on motion and light level



DIGITAL LUMINAIRE SENSOR

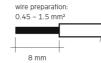
Combination multiple sensors and drivers

Maximum load (capacitive): 400 W / 400 VA

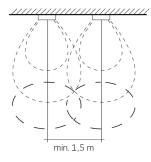


Wiring type and cross section

Stranded wire with ferrule or solid wire up to 1.5mm² may be used for wiring. Strip 8mm of insulation from the cables to ensure perfect operation of the push-in terminals Use one wire for each terminal connector only.



Minimum spacing for further sensors



Functions and setting up

Setting the detection area

The detection area can be restricted to prevent the lighting system being switched on unnecessarily, as would be the case if the area were too large. The detection area indicates the diameter within which motion is detected.

	1	2	3	Sensitivity
T	•	•	•	100 % (default)
Ш	0	•	٠	75 %
Ш	0	•	0	50 %
IV	0	0	•	30 %
v	0	0	0	10 %

DIGITAL CEILING SENSORS

DIGITAL LUMINAIRE SENSOR

Setting the switch-off delay

To prevent the lighting system being switched on and off unnecessarily can set a switch-off delay. The delay starts after the last motion in the detection area. If a further motion is detected in the detection area dur this delay then the delay is retriggered. At the end of the delay the light be switched off or the corridorFUNCTION is started.

Setting the daylight threshold value

A threshold value can be set to prevent the lighting system from being switched on when there is already adequate illuminance. The threshold indicates the illuminance value below which detected motion causes the lighting system to be switched on.

Note:

To ensure the sensor switches on in conjunction with the corridorFUNCTION you should set the threshold value to I = Disable. If the threshold value is disabled the sensor will always switch on.

corridorFUNCTION

The corridorFUNCTION can be activated by applying a voltage of 230V for 5 minutes at the switchDIM connection of the control gear or via corridorFUNCTION Plug.

Note: To apply a voltage of 230V for 5 minutes at the switchDIM input of the control gear the sensor must detect motion for more than 5 minutes or a switch-off delay longer than 5 minutes must be set.

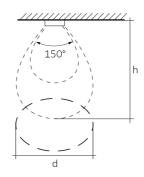
Start up behaviour

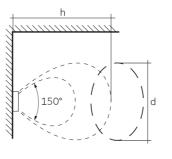
20 seconds after mains is connected to the sensor, the sensor is ready and indicates this by switching on the green LED.

Motion detection

Ceiling mounted:

Wall mounted:





Diameter of the detection cone as a function of height at maximum detection area without taking objects in the room into consideration. Stationary objects (walls, tables, floor-standing luminaires, etc.) located in the direct view of the sensor change the characteristics of the detection area. The mentioned values are typical minimum values depending on the environment and application the detection area may increase.

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	4	5	6	Hold time
Т	•	•	•	5 s (default
Ш	٠	0	٠	30 s
Ш	٠	0	0	1 min
IV	0	•	٠	5 min
v	0	٠	0	10 min
VI	0	0	٠	20 min
VII	0	0	0	30 min

Ď

		7	8	9	Daylight sensor	
	I	•	•	•	Disable (default)	•
	П	0	•	•	50 Lux	Г
d value he	Ш	0	•	0	20 Lux	
	IV	0	0	•	5 Lux	2
	v	0	0	0	2 Lux	

h	d
0.5 m	0.5 m
1.0 m	1.0 m
1.5 m	2.0 m
2.0 m	4.0 m
2.5 m	6.0 m
3.0 m	7.0 m
3.5 m	6.0 m
4.0 m	5.0 m
4.5 m	4.0 m
5.0 m	3.0 m

DIGITAL LUMINAIRE SENSOR

Detection sensibility

Optimised for detection of pedestrians with a speed of 0.5 – 1.5m/s corresponds to 1.8 – 5.4 km/h. Depending on the Application and environmental conditions the maximum detectable speed of object may vary.

Miscellaneous

Additional information

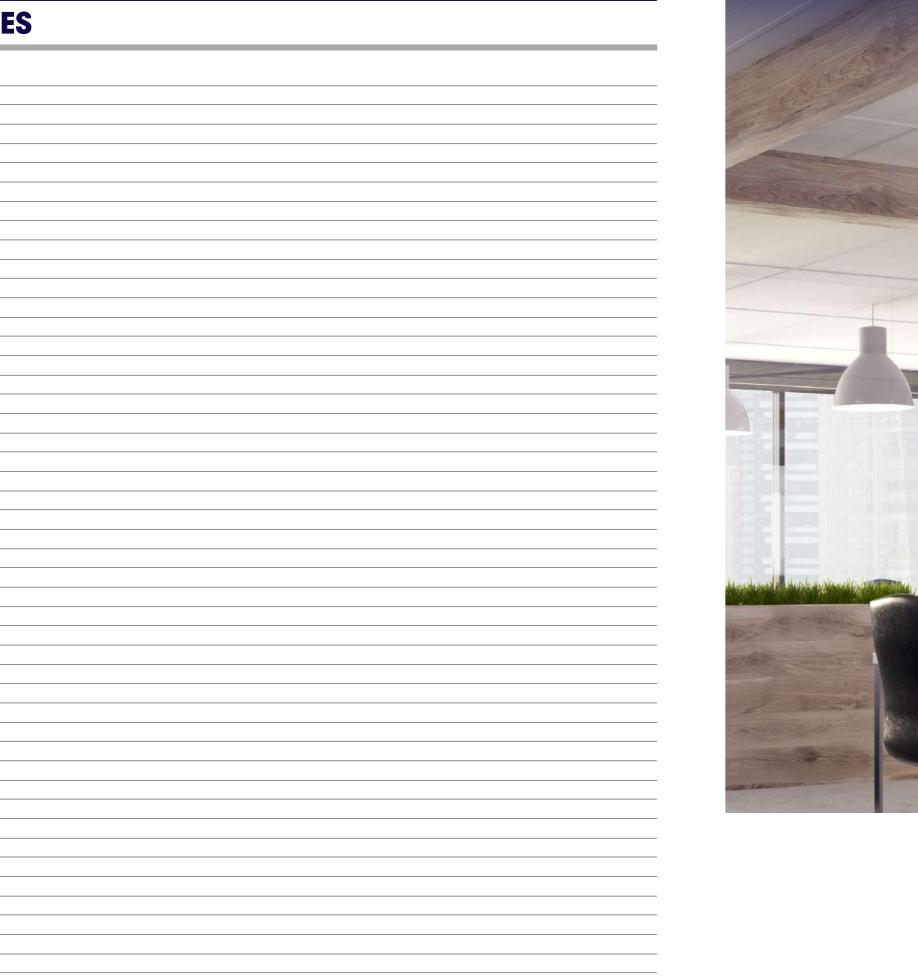
Additional technical information at www.tridonic.com → Technical Data Guarantee conditions at www.tridonic.com → Services Life-time declarations are informative and represent no warranty claim. No warranty if device was opened.

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DIGITAL SIGNAL INTERFACE (DSI) page 184

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TRIDONIC DIGITAL SIGNAL INTERFACE (DSI)

Lighting Automation and Controls

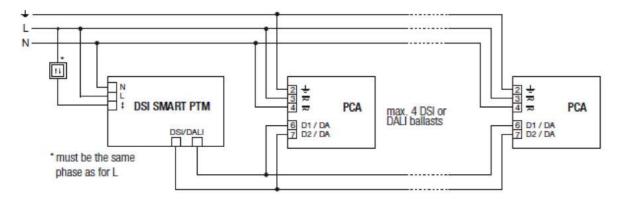
DSI

DSI (Digital Serial Interface) enables DSI control gear to be controlled. The DSI line can be wired separately via a two-core cable or together with the mains cable in a five-core cable. Communication is not impaired by the mains cable. In contrast to DALI, there is no individual addressing of the ballasts with DSI

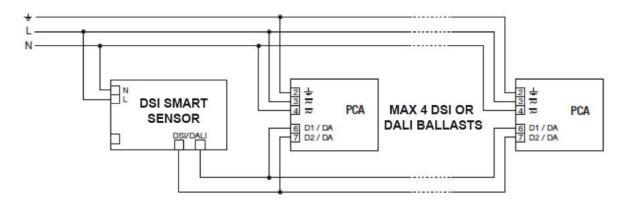
DSI offers a series of benefits

- DSI allows for simple control of up to four luminaires from one sensor. The sensor is programmed for daylight harvesting and presence detection, to the required light level and occupancy time
- · Light levels can be set at a value of 1 to 100 with occupancy time from 1 minute to 60 minutes
- Wiring: Simple wiring with five pole standard cables and line length of up to 250 metres
- Wiring: Polarity-free control lines can be used for mains and control lines
- Wiring: Multiple wiring possibilities (star, series and mixed wiring)
- · Unaffected by electrical interference: Uniform light level from the first to the last light source
- Reverse polarity protected connection: can be connected with any polarity

3.1 Wiring diagram for DSI-SMART PTM (Interface, for push to make dimming)



3.2 Wiring diagram for DSI-SMART PTM (Sensor, for daylight harvesting)

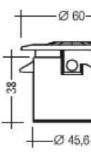


DIGITAL SIGNAL INTERFACE (DSI)

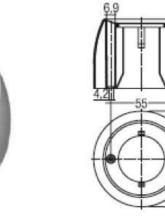
TRIDONIC DIGITAL SIGNAL INTERFACE (DSI)

DSI Smart PTM Flush Sensor



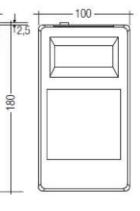


DSI Smart PTM Surface Sensor



DSI Smart Programmer



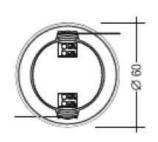


This device is used to program the sensors for daylight harvesting and occupancy time.

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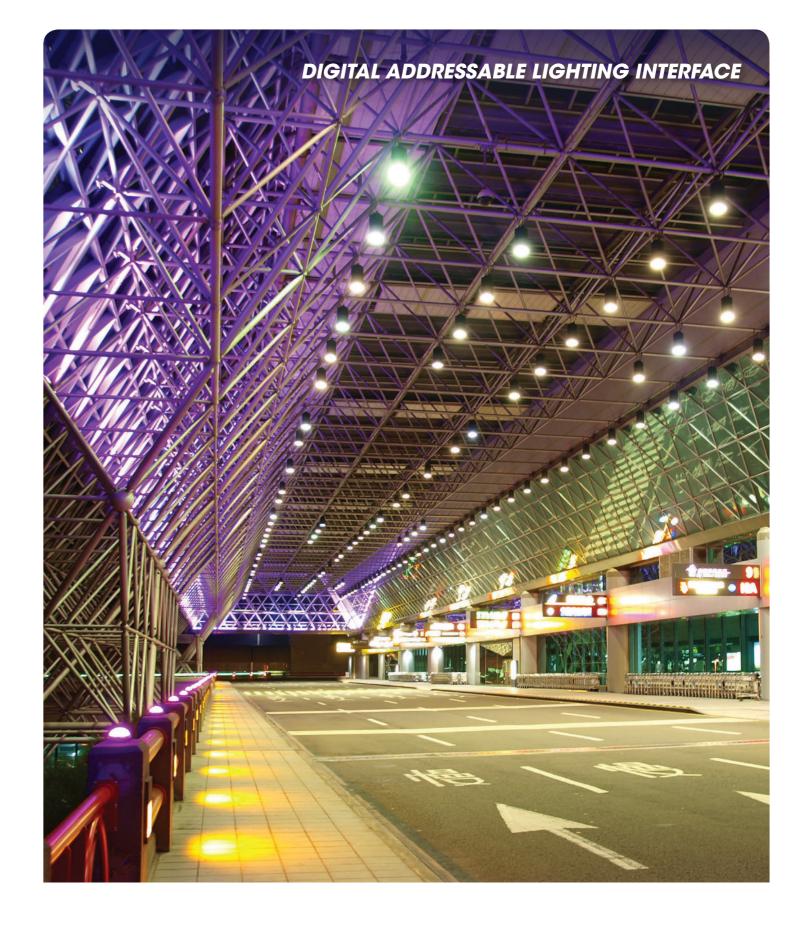




Remote Control IR6 - 86.5 x 40.5 x 7.2mm



This device can override the ceiling sensor to allow manual dimming up and down.





DIGITAL ADDRESSABLE LIGHTING INTERFACE page 188

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TRIDONIC DIGITAL ADDRESSABLE LIGHTING INTERFACE

DALI standard

DALI (Digital Addressable Lighting Interface) is an interface protocol for digital communication between electronic lighting equipment.

The DALI standard was developed by Tridonic together with renowned manufacturers of operating and control equipment. Today, these manufacturers belong to the DALI Activity Group which promotes the use and further development of DALI.

The DALI standard is defined in IEC 62386. A test procedure standardised by the DALI Activity Group ensures compatibility between products from different manufacturers. Tridonic products have undergone this test and meet all the requirements. This is indicated by the logo of the DALI Activity Group on the device.

The agreement by the lighting industry to adopt a common protocol has opened up a virtually unlimited number of options. With the right choice of individual DALI components an extremely wide range of requirements can be met, from operating a simple light switch to lighting management systems for entire office complexes with thousands of light sources.

Dali offers a series of benefits:

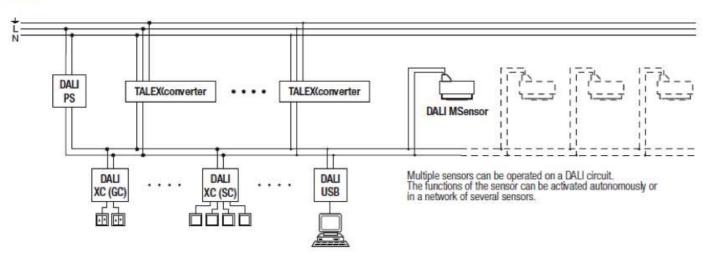
- DALI line: 64 LED Driver can be grouped to a line
- DALI groups: Every LED Driver can be attributed into 16 groups
- Addressability: All LED Driver are individually addressable
- Grouping: Possible without complicated rewiring
- Programmability: Individual programmability makes it possible to use functions which transcend the DALI standard
- Monitoring: Easily possible thanks to status feedback
- Wiring: Simple wiring with five pole standard cables and a cable length of max. 300 metres
- Wiring: Polarity-free control lines can be used for mains and control lines
- Wiring: Multiple wiring possibilities (star, series and mixed wiring)
- Unaffected by interruptions: All luminaires receive the same, unaffected digital signal and dimming level
- Similar light level from first to last luminaire

Technical data of a DALI line:

DALI voltage: 9.5 V - 22.4 DC

- Maximum DALI system current: max. 250mA
- Data transfer rate: 1200 Baud
- Maximum line length: up to 300 m (for 1.5 mm²)

Wiring Diagramam



DIGITAL ADDRESSABLE LIGHTING INTERFACE

TRIDONIC DIGITAL ADDRESSABLE LIGHTING INTERFACE

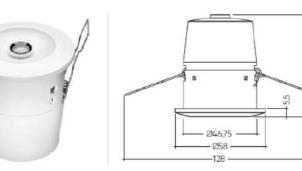
MSensor 5DPI 14f White and Black





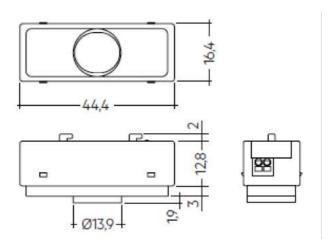


Msensor 5DPI 14rc

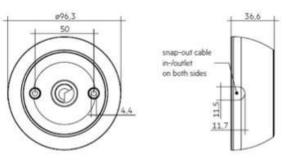


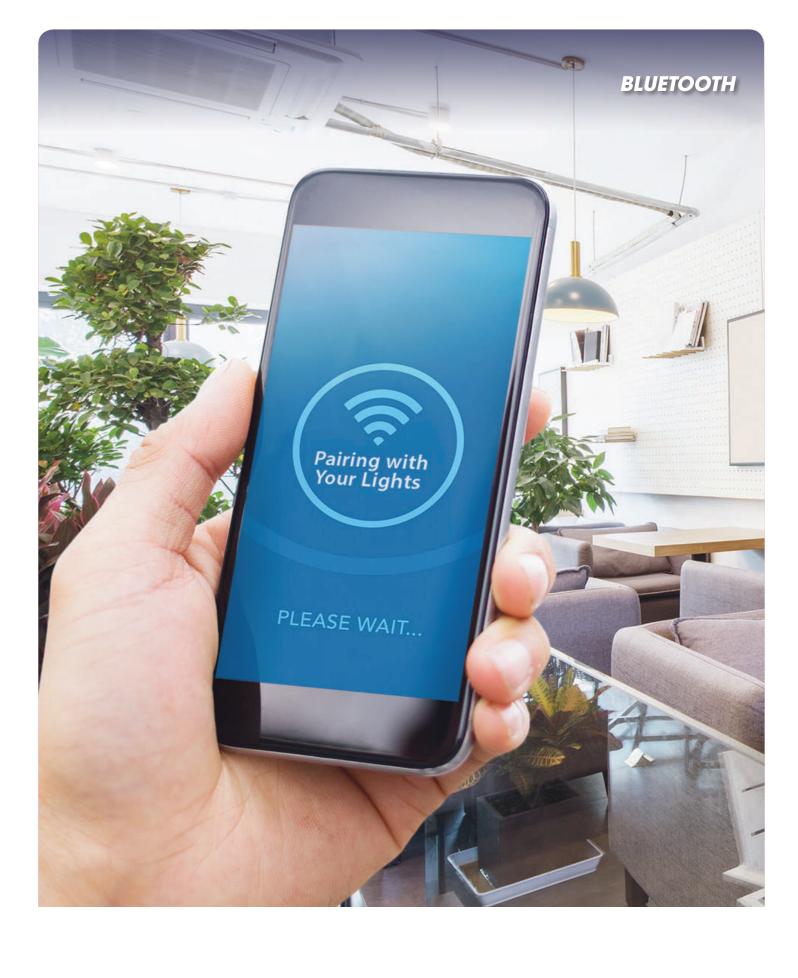
ACU Sensor Housing 14rs IP20













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basicDIM Wireless

The intuitive path towards wireless luminaire communication



Bluetooth Wireless control technology allows versatile and processional interaction with all luminaires within an area - fully intuitive and with no additional wiring required.

The most robust, cost effective and future proof wireless lighting control solutions.

Hassle-free wireless

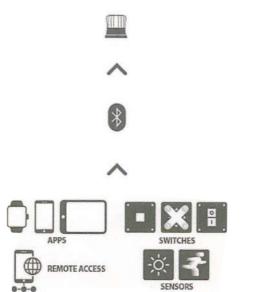
Up to 127 light points can be conveniently controlled via Bluetooth: switching on and off as well as dimming functions are just as simple as grouping luminaires and creating lighting settings. Tuneable white luminaires change their colour temperature to suit the user and the direct and indirect light content are simple to adjust. All the elements for integrating sensors are also in place.

Bluetooth offers a series of benefits:

- Economical wireless alternative to DALI.
- A wireless lighting control solution for existing installations.
- All programming, commissioning and user control is done through your smart devices such as cell phones and tablets. iOS and Android compatible.
- Up to 127 Bluetooth devices can be controlled through the following scenarios:
- o Individual Iuminaire control
- o Luminaire group control
- o Multiple scene selections
- o Colour changing and hue selection
- o Tuneable white light control (cycadium rhythm)
- o Scheduling using calendar and time
- Bluetooth is not an interest dependent system

LASCON[®] BLUETOOTH

BLUETOOTH



Bluetooth Low Energy

Connected

Easy to setup

Easy to use

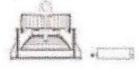
Made in Europe





Suitable for Trailing-Edge Phase, Dali, 1/10V drivers, PWM for Linear LED



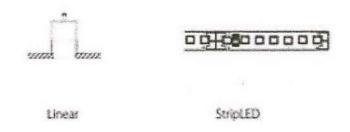


Downlight

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- The Casambi solution is based on the state-of-the-art wireless technology. All modern smartphones, tablets and smart watches are using this technology.
- The Casambi devices are connected when needed, without Internet connection. All Casambi modules automatically create a wireless mesh network.
- The system is intuitive. You do not need any new wiring, switches, devices or networks. Plug in the lighting fixture and pair it with your phone or tablet. No other configurations by a professional technician would be needed, just use the app.
- Use your app or wall switches for dimming, changing colour, colour temperature, controlling one scene with multiple luminaires or switching through multiple scenes.



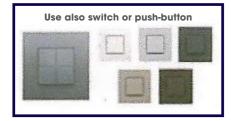
APP connected with Bluetooth Low Energy





Intuitive Apps Easy setting and usage. Take a picture of the room and identify lights

Xpress



CASAMBI CAN BE USED BOTH WITH APP AND WALL SWITCH TO CONTROL LIGHT.

User-friendly

Control the spotlights through an intuitive user interface, directly from your smartphone or tablet.





User friendly basic gestures

Tap to turn on/off, pan left/right to dim, up/down to change color temperature, hold on to change the color and save colors to the palette.

Xpress is a device that controls Casambi enabled luminaires

easily and wirelessly. After configuration of the buttons these

will control the assigned scene, lamp or group.

▶ Find your lamp easily with a picture.

Just click on the pictures previously saved to control your lamps.

Remote access feature

Control Casambi enabled luminaires remotely through internet access.

BLUETOOTH

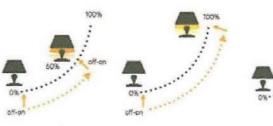
LASCON[®] BLUETOOTH

Lighting can be managed by traditional wall switches. Casambi also developed Xpress, a wireless control panel.

Switch

Classic Stich or Push button





\wedge Wall Switch

To start the dimming process quickly, switch OFF and ON the liahr fixture. After flicking the switch, the dimming process will start. Once the light has reached the desired brightness level just flick the switch quickly again. The last brightness state will be applied for next time.

Push Button

of the button is needed.

Installation

Wireless, no need for any switch, device or network

- · Choose the right CASAMBI module. It is available in phase cutting, 1-IOV or Dali. You can also manage RGB (W) or tuneable white with Casambi.
- Due to his small size it can fit in any luminaire or into the ceiling.
- The Bluelooth self-organising witeless mesh network can control a large number of fixtures from any point.
- All settings are done through the free Casambi app (Apple App Store, Google Play Store.)
- The maximum distance is 30m for indoor and 50m for outdoor applications. (It is recommended to test the communication if unsure about the passible disturbances)
- Lighting can also be managed by traditional wall switches.

6

Security

Network can be shared through a password.

Stability

• Solving interference issues, Bluetooth is more robust than wifi and Zigbee. It uses Frequency Hopping Spread Spectrum (FHSS) that hops between channels to counteract interference problems.

No gateway

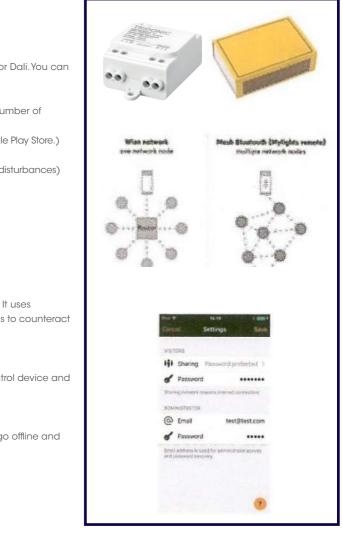
• Unlike DALI applications, no gateway module is required between the control device and the network.

No single point failure

• The system is self healing and in constant synchronization. Any unit can go offline and catch up from others when they return back online.

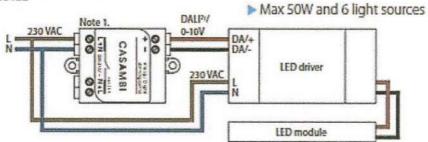
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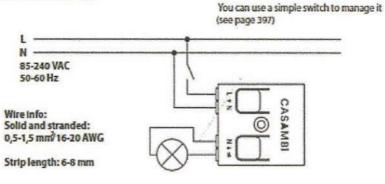


Connection Diagram

For constant current in DALI or 1/10V Product ref: CBU-ASD

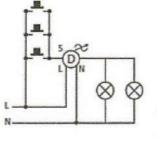


For phase-cut dimmable drivers Product ref: CBU-TED

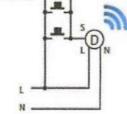


For phase-cut dimmable driver with push button Product ref: Vadsbo LD220WCM

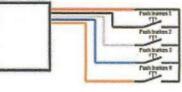




Push buttons Product ref: Vadsbo LD220WCM



Up to 4 push buttons Product ref: Bluetooth 4 CHannels push button



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BLUETOOTH

Configuration

Unlike Dali Interfaces which need important setup and configuration by an expert, Casambi networks can be set up easily and directly with your smartphone or tablet. Lamps managed with Casambi are automatically detected and grouped into a network.

▶ Free interface and work on iOS and Android.

All modules and switches managed by Casambi appear on the network

▶ Identify modules or switches* using a picture to easily find any lamp. With your smartphone, take a picture of the luminaire. The picture will serve to easily find the light on the app.

*Assign a function for each switch

Create group

Lamps can be grouped to one switch via the app.

Create scene

Scenes help you setup an ambience in your space. Define the desired light level and group of lamps. Scenes also enable you to create animations, fading from scene to scene.

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Timer

Create a list of timers that will turn scenes or animations on and off over time. Examples: wake up light, set the living room lights to automatically turn on in the evening.

Functions

- Switch on/off
- Dim 1 luminaire
- Control a group/a scene



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