

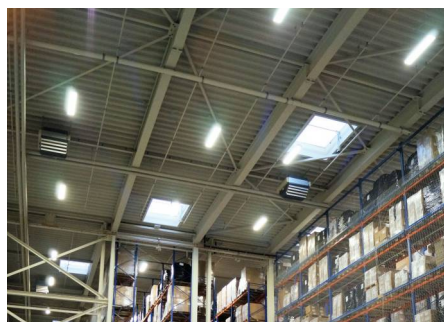


PRODUCT CATALOGUE

Fluorescent and LED lighting for sport and industrial applications

September, 2015

Weisert+Daur Heilbronn, Germany
Implemented by RMBH GmbH



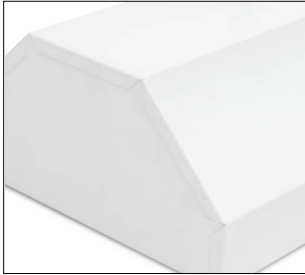
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HIGH BAY LED LUMINARIES

High bay LED luminaries are designed for use in indoor applications in up to 20 meters heights. The special highlights of the ECOLIGHT LED luminaries are low budget, high quality and energy-efficient light source in conjunction with optimum light control.



- Housing made of powder-coated 0.8 mm steel sheet color: white, RAL 9016L
- Special colors and coatings on request
- Special housings made from stainless steel available



- Latest LED technology from PHILIPS and OSRAM enables optimized and high energy efficient lighting



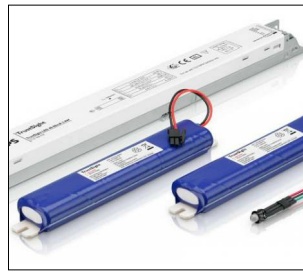
- Special Sport Protection Cages are available on special request.



- Best LED driver technology from OSRAM or PHILIPS
- Up to 100,000 hours lifetime
- Control by sensors or light management as an option
- Special ballasts on request



- Advanced lids with a corrosion-resistant aluminum frame (IP65)



- All models are available with emergency packs



- Lids available in PMMA, Polycarbonate or Tempered Glass versions. This allows an optimal adaptation to the environmental conditions.



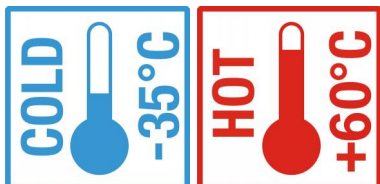
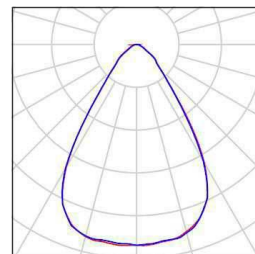
- Control by sensors and light management as an option



THE ENERGY-EFFICIENT HIGH BAY LED LUMINAIRE

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

LUMINA LED LM models are designed to be installed in heights from 4 meters and up to 20 meters and offers immediate savings of around 70% over traditional lightings. Units fitted with an intelligent sensor can easily extend savings to more than 90%. Different optics enables optimized and high efficient lighting for different applications.



Suitable for extreme temperature conditions. Ask for XT modification.



GENERAL TECHNICAL SPECIFICATIONS		Models: LM-EN4/4F/6000, LM-EN5/6F/6000	
Supply Voltage	220-230V AC	Number of LED modules	4 or 6
Supply Frequency	50-60 Hz	Lamp family code	Philips FastFlex LED Module
RFI Suppression	EN 55015 / CISPR 15	Lamp color K	3000, 4000 or 5700
Immunity	EN 61547	Color Rendering Index	>70 or > 80
Harmonics	EN 6100-3-2	Min useful life L80 B50	50.000 h
Operating Temperature	-20 - +50 °C	Driver /power unit/	PHILIPS XITANIUM
Storage Temperature	-40 - +60 °C	Power factor (full load at 230V)	> 0.90
Housing material	0.8 mm powder coated steel	Dimmable	Optional
Enclosure Rating	IP65	Emergency pack	Optional
Lid material	PMMA, Polycarbonate or Tempered Glass	System Wattage	80 - 300W
Cable gland	PG 13.5 or STUCCHI (3-pole) fast plug optional	LED module efficiency	up to 151 lm/W
Protection class IEC	Safety class I	LED Luminous Flux per Fitting	up to 33.000 lm

* in preparation

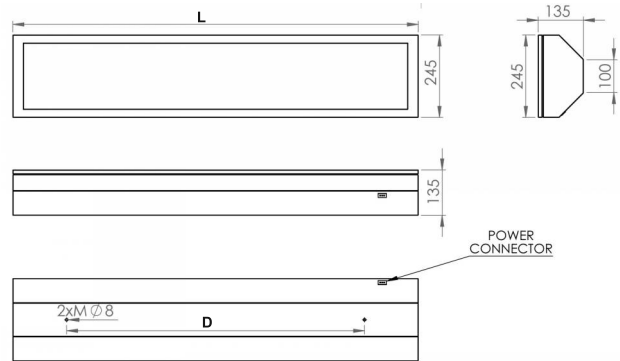
GENERAL TECHNICAL SPECIFICATIONS

Ref.	Wattage	Available Options	Dimensions (mm)*				Optimum Working Height
			D	L	W	H	
LM-EN4/4F/6000	up to 80W	S/P/EM/XT	889	1210	245	135	4 - 10 m
LM-EN4/4F/6000	up to 100W	S/P/EM/XT	889	1210	245	135	4 - 10 m
LM-EN4/4F/8000	up to 130W	S/P/EM/XT	889	1210	245	135	4 - 15 m
LM-EN5/6F/6000	up to 300W	S/P/EM/XT	1189	1510	245	135	4 - 20 m

* without sensor

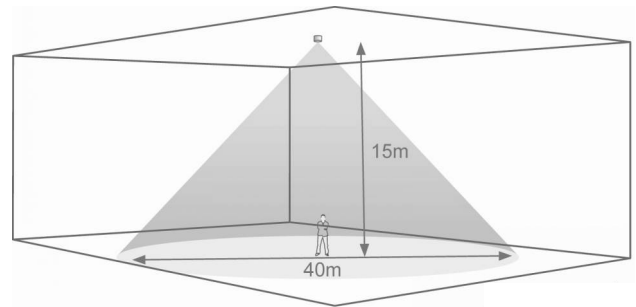
Additional options	Ref.
Light and PIR Sensor	S
PIR Sensor	P
Emergency Pack	EM
Enforced version	XT

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

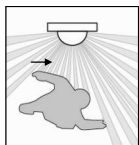


SENSOR PARAMETERS

Model	EBMPIR-MB (CP Electronics)
Humidity	5 to 95% non-condensing
Temperature	-10°C to 50°C LT30 versions -30°C to 35°C
Material	Flame retardant ABS/PC
IP rating	IP65

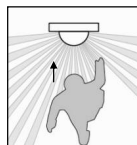


Walk across



Height	Range Diameter
15m	40m
10m	26m
6m	16m
3m	9m

Walk towards



Height	Range Diameter
15m	30m
10m	20m
6m	12m
3m	8m

EMERGENCY PACKS

PHILIPS TrustSight LED EM Kit 40-80mA 1hrF	1 hour
PHILIPS TrustSight LED EM Kit 40-80mA 3hrF	3 hours



ISO 9001 - ISO 14001
OHSAS 18001

BUREAU VERITAS
Certification



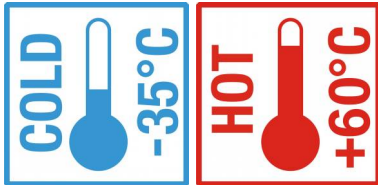
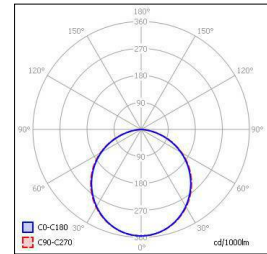
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THE ENERGY-EFFICIENT HIGH BAY LED LUMINAIRE

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

LUMINA LED LN models are designed to be installed in heights from 4 meters and up to 20 meters and offers immediate savings of around 70% over traditional lightings. Units fitted with an intelligent sensor can easily extend savings to more than 90%. Different optics enables optimized and high efficient lighting for different applications.



Suitable for extreme temperature conditions.
Ask for XT modification.



GENERAL TECHNICAL SPECIFICATIONS		Models: LN-EN4/3L/4400, LN-EN4/3L/8000	
Supply Voltage	220-230V AC	Number of LED modules	6
Supply Frequency	50-60 Hz	Lamp family code	Philips Fortimo LED
RFI Suppression	EN 55015 / CISPR 15	Light color K	3000, 4000 or 5000
Immunity	EN 61547	Color Rendering Index	> 80 or > 90
Harmonics	EN 6100-3-2	Min useful life L80 B50	50.000 h
Operating Temperature	-20 - +50 °C	Driver /power unit/	PHILIPS XITANIUM
Storage Temperature	-40 - +60 °C	Power factor (full load at 230V)	> 0.90
Housing material	0.8 mm powder coated steel	Dimmable	Optional
Enclosure Rating	IP65	Emergency pack	Optional
Lid material	PMMA, Polycarbonate or Tempered Glass	System Wattage	80 - 200W
Cable gland	PG 13.5 or STUCCHI (3-pole) fast plug optional	LED module efficiency	up to 148 lm/W
Protection class IEC	Safety class I	LED Luminous Flux per Fitting	up to 24.000 lm

* in preparation

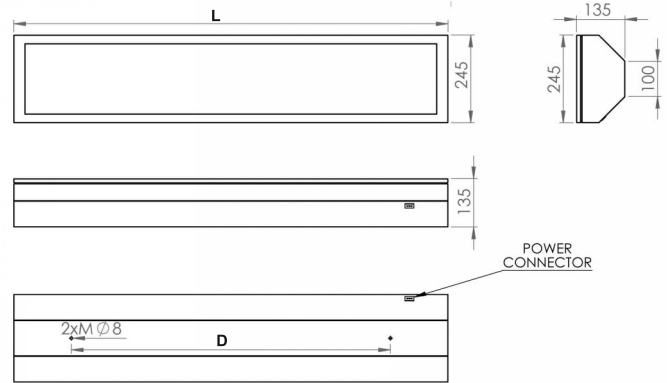
GENERAL TECHNICAL SPECIFICATIONS

Ref.	Wattage	Available Options	Dimensions (mm)*				Optimum Working Height
			D	L	W	H	
LN-EN4/3L/4400	up to 80W	S/P/EM/XT	889	1210	245	135	4 - 10 m
LN-EN4/3L/4400	up to 100W	S/P/EM/XT	889	1210	245	135	4 - 10 m
LN-EN4/3L/8000	up to 130W	S/P/EM/XT	889	1210	245	135	4 - 15 m
LN-EN4/3L/8000	up to 200W	S/P/EM/XT	889	1210	245	135	4 - 20 m

* without sensor

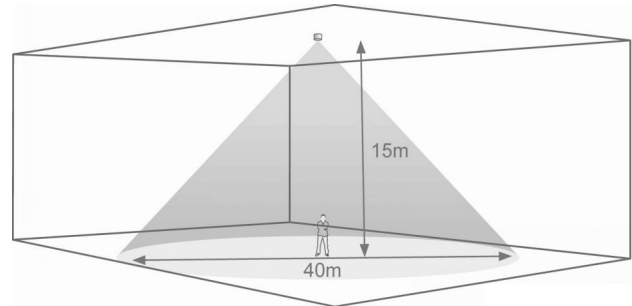
Additional options	Ref.
Light and PIR Sensor	S
PIR Sensor	P
Emergency Pack	EM
Enforced version	XT

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

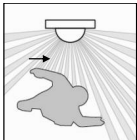


SENSOR PARAMETERS

Model	EBMPIR-MB (CP Electronics)
Humidity	5 to 95% non-condensing
Temperature	-10°C to 50°C LT30 versions -30°C to 35°C
Material	Flame retardant ABS/PC
IP rating	IP65

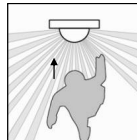


Walk across



Height	Range Diameter
15m	40m
10m	26m
6m	16m
3m	9m

Walk towards



Height	Range Diameter
15m	30m
10m	20m
6m	12m
3m	8m

EMERGENCY PACKS

PHILIPS TrustSight LED EM Kit 40-80mA 1hrF	1 hour
PHILIPS TrustSight LED EM Kit 40-80mA 3hrF	3 hours



ISO 9001 - ISO 14001
OHSAS 18001

BUREAU VERITAS
Certification



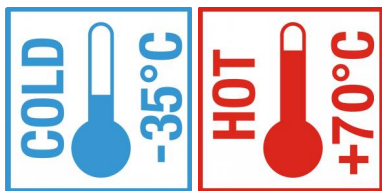
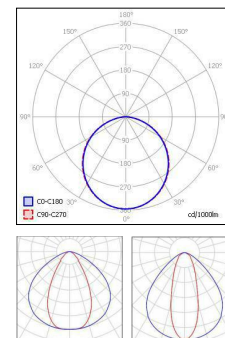
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THE ENERGY-EFFICIENT HIGH BAY LED LUMINAIRE

Models: LN-EN4/4L/2600, LN-EN4/4L/4400,
LN-EN4/4L/8000

SAULA LED range is a high quality high bay commercial luminaire designed to be used in heights from 2 meters and up to 10-15 meters. SAULA LED offers immediate savings of around 70% over traditional lightings. Units fitted with an intelligent sensor can easily extend savings to more than 90%.



Suitable for extreme temperature conditions.
Ask for XT modification.



GENERAL TECHNICAL SPECIFICATIONS	
Supply Voltage	220-230V AC
Supply Frequency	50-60 Hz
RFI Suppression	EN 55015 / CISPR 15
Immunity	EN 61547
Harmonics	EN 6100-3-2
Operating Temperature	-20 - +50 °C
Storage Temperature	-40 - +60 °C
Housing material	0.8 mm powder coated steel
Enclosure Rating	IP65
Lid material	PMMA, Polycarbonate or Tempered Glass
Cable gland	PG 13.5 or STUCCHI (3-pole) fast plug optional
Protection class IEC	Safety class I

Models: LN-EN4/4L/2600, LN-EN4/4L/4400, LN-EN4/4L/8000	
Number of LED modules	8
Lamp family code	PHILIPS Fortimo LED
Light color K	3000, 4000 or 5000
Color Rendering Index	> 80 or > 90
Min useful life L80 B50	50.000 h
Driver /power unit/	PHILIPS XITANIUM
Power factor (full load at 230V)	> 0.90
Dimmable	Optional
Emergency pack	Optional
System Wattage	74 - 300W
LED module efficiency	up to 148 lm/W
LED Luminous Flux per Fitting	up to 32.000 lm

* in preparation

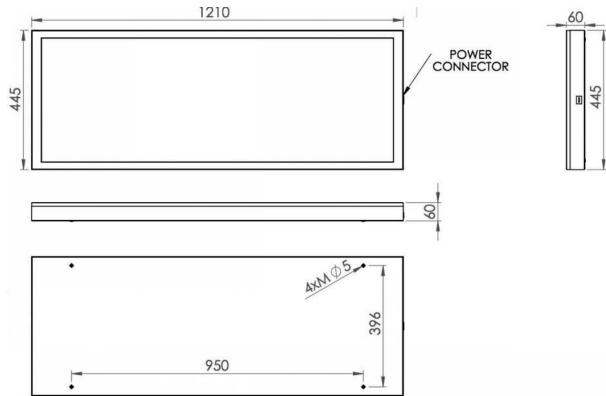
GENERAL TECHNICAL SPECIFICATIONS

Ref.	Wattage	Available Options	Dimensions (mm)*			Optimum Working Height
			L	W	H	
LN-EN4/4L/2600	74W	D/S/P/EM/SP/XT	1210	445	60	2 - 5 m
LN-EN4/4L/4400	134W	D/S/P/EM/SP/XT	1210	445	60	2 - 10 m
LN-EN4/4L/8000	255W	D/S/P/EM/SP/XT	1210	445	60	2 - 15 m
LN-EN4/4L/8000	300W	D/S/P/EM/SP/XT	1210	445	60	2 - 15 m

* without sensor

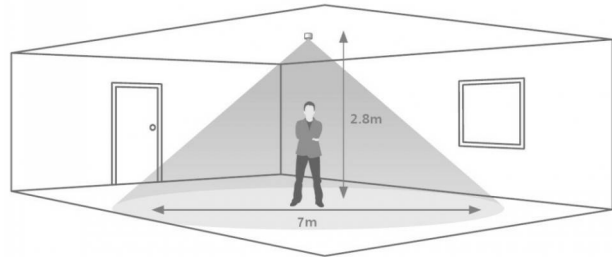
Additional options	Ref.
Diffusers	D
Light and PIR Sensor	S
PIR Sensor	P
Emergency Pack	EM
Protective Sport Cage	SP
Enforced version	XT

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

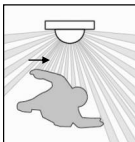


SENSOR PARAMETERS

Model	EBMPIR-MB (CP Electronics)
Humidity	5 to 95% non-condensing
Temperature	-10°C to 50°C
	LT30 versions -30°C to 35°C
Material	Flame retardant ABS/PC
IP rating	IP65

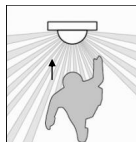


Walk across



Height	Range Diameter
7m	16m
2.8m	9m

Walk towards



Height	Range Diameter
7m	10m
2.8m	5m

Area of high sensitivity Area of lower sensitivity

EMERGENCY PACKS

PHILIPS TrustSight LED EM Kit 40-80mA 1hrF	1 hour
PHILIPS TrustSight LED EM Kit 40-80mA 3hrF	3 hours



LED Luminaires and Retrofit Bulbs Licensing Program

Member
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ISO 9001 - ISO 14001
OHSAS 18001

BUREAU VERITAS
Certification



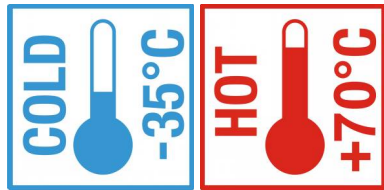
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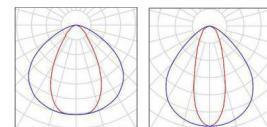
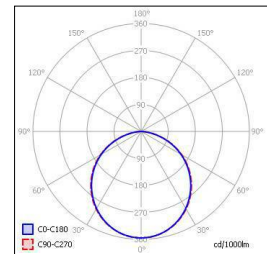
THE ENERGY-EFFICIENT HIGH BAY LED LUMINAIRE

Models: LN-EN4/2L/2600, LN-EN4/2L/4400,
LN-EN4/2L/8000

SAULA LED range is a high quality high bay commercial luminaire designed to be used in heights from 2 meters and up to 10-15 meters. SAULA LED offers immediate savings of around 70% over traditional lightings. Units fitted with an intelligent sensor can easily extend savings to more than 90%.



Suitable for extreme temperature conditions.
Ask for XT modification.



(optional)



GENERAL TECHNICAL SPECIFICATIONS	
Supply Voltage	220-230V AC
Supply Frequency	50-60 Hz
RFI Suppression	EN 55015 / CISPR 15
Immunity	EN 61547
Harmonics	EN 6100-3-2
Operating Temperature	-20 - +50 °C
Storage Temperature	-40 - +60 °C
Housing material	0.8 mm powder coated steel
Enclosure Rating	IP65
Lid material	PMMA, Polycarbonate or Tempered Glass
Cable gland	PG 13.5 or STUCCHI (3-pole) fast plug optional
Protection class IEC	Safety class I

Models: LN-EN4/2L/2600, LN-EN4/2L/4400, LN-EN4/2L/8000	
Number of LED modules	4
Lamp family code	PHILIPS Fortimo LED
Light color K	3000, 4000 or 5000
Color Rendering Index	> 80 or > 90
Min useful life L80 B50	50.000 h
Driver /power unit/	PHILIPS XITANIUM
Power factor (full load at 230V)	> 0.90
Dimmable	Optional
Emergency pack	Optional
System Wattage	36 - 128W
LED module efficiency	up to 165 lm/W
LED Luminous Flux per Fitting	up to 16.000 lm

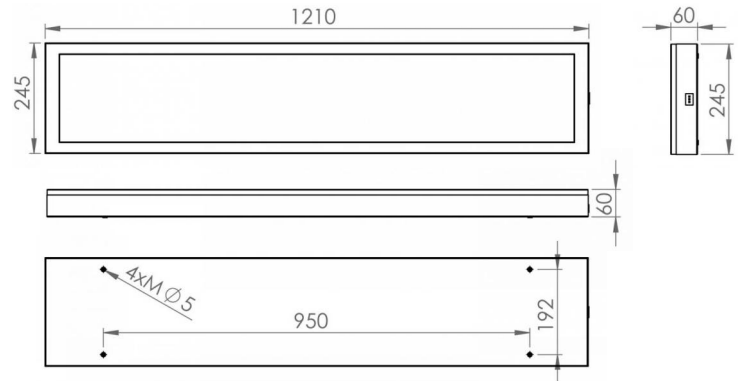
* in preparation

GENERAL TECHNICAL SPECIFICATIONS

Ref.	Wattage	Available Options	Dimensions (mm)			Optimum Working Height
			L	W	H	
LN-EN4/2L/2600	36W	D/S/P/EM/SP/XT	1210	245	60	2 - 5 m
LN-EN4/2L/4400	68W	D/S/P/EM/SP/XT	1210	245	60	2 - 10 m
LN-EN4/2L/8000	128W	D/S/P/EM/SP/XT	1210	245	60	2 - 15 m

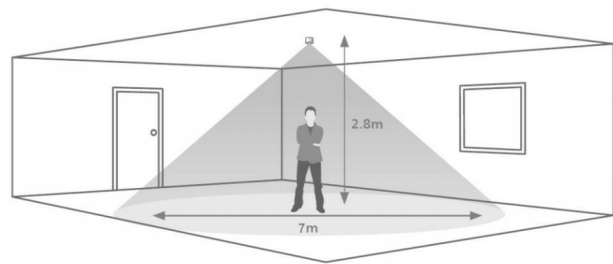
Additional options	Ref.
Diffusers	D
Light and PIR Sensor	S
PIR Sensor	P
Emergency Pack	EM
Protective Sport Cage	SP
Enforced version	XT

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



SENSOR PARAMETERS

Model	EBMPIR-MB (CP Electronics)
Humidity	5 to 95% non-condensing
Temperature	-10°C to 50°C
	LT30 versions -30°C to 35°C
Material	Flame retardant ABS/PC
IP rating	IP65



Walk across		Walk towards	
	Height	Range Diameter	
	7m	16m	
	2.8m	9m	
	7m	10m	
	2.8m	5m	

Area of high sensitivity Area of lower sensitivity

EMERGENCY PACKS

PHILIPS TrustSight LED EM Kit 40-80mA 1hrF	1 hour
PHILIPS TrustSight LED EM Kit 40-80mA 3hrF	3 hours



ISO 9001 - ISO 14001
OHSAS 18001

BUREAU VERITAS
Certification



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LOW BAY LED LUMINARIES

ECOLIGHT low bay LED luminaires are mainly designed for use in open areas from heights greater than 2 meters and up to 5 meters where wide beam angle is required. The special highlights of the ECOLIGHT low bays are low budget, high quality and energy-efficient light source in conjunction with optimum light control.



- Housing made of powder-coated 0.8 mm steel sheet color: white, RAL 9016L
- Special colors and coatings on request



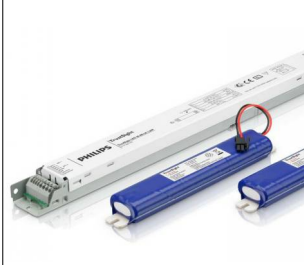
- IP65 or IP66 models with ABS body or Glass fibre reinforced polyester and PC or PMMA diffusers



- Best LED driver technology from OSRAM or PHILIPS
- Up to 100,000 hours lifetime
- Control by sensors or light management as an option
- Special ballasts on request



- Latest LED technology from OSRAM and PHILIPS
- Highest efficiency available in the market
- ZHAGA standard LED modules which are easy to replace



- Emergency packs available



- Control by sensors and light management as an option

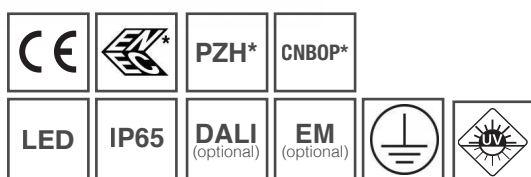
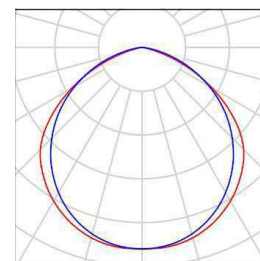
 Zhaga

THE ENERGY-EFFICIENT HIGH LOW LED LUMINAIRE

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



SAULA LED LP range is a high quality low bay commercial luminaire designed to be used in heights from 2 meters and up to 5 meters. SAULA LED LP offers immediate savings of around 70% over traditional lightings.



GENERAL TECHNICAL SPECIFICATIONS		Models: LP-EN2/2SQ/2500, LP-EN4/2SQ/2500	
Supply Voltage	220-230V AC	Number of LED modules	2
Supply Frequency	50-60 Hz	Lamp family code	PHILIPS Fortimo LED
RFI Suppression	EN 55015 / CISPR 15	Light color K	3000, 4000 or 5000
Immunity	EN 61547	Color Rendering Index	> 80
Harmonics	EN 6100-3-2	Min useful life L80 B50	50.000 h
Operating Temperature	-20 - +50 °C	Driver /power unit/	PHILIPS XITANIUM
Storage Temperature	-40 - +60 °C	Power factor (full load at 230V)	> 0.90
Housing material	0.8 mm powder coated steel	Dimmable	Optional
Enclosure Rating	IP65	Emergency pack	Optional
Lid material	Opal PMMA or Opal Polycarbonate	System Wattage	35 - 70W
Cable gland	PG 13.5 or STUCCHI (3-pole) fast plug optional	LED module efficiency	up to 175 lm/W
Protection class IEC	Safety class I	LED Luminous Flux per Fitting	up to 10.000 lm

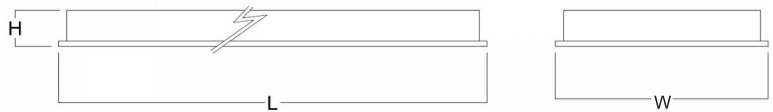
* In preparation

GENERAL TECHNICAL SPECIFICATIONS

Ref.	Wattage	Available Options	Dimensions (mm)			Optimum Working Height
			L	W	H	
LP-EN2/2SQ/2500	35W	M/EM	595	595	60	2 - 5 m
LP-EN2/2SQ/2500	55W	M/EM	595	595	60	2 - 5 m
LP-EN2/2SQ/2500	70W	M/EM	595	595	60	2 - 5 m
LP-EN4/2SQ/2500	35W	M/EM	1195	295	60	2 - 5 m
LP-EN4/2SQ/2500	55W	M/EM	1195	295	60	2 - 5 m
LP-EN4/2SQ/2500	70W	M/EM	1195	295	60	2 - 5 m

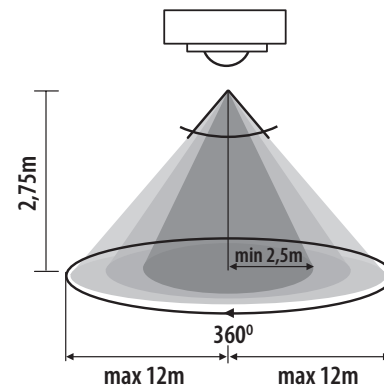
Additional options	Ref.
Microvave Sensor	M
Emergency Pack	EM

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



MICROWAVE SENSOR PARAMETERS

Maximum horizontal operation angle	360°
Maximum verical operational angle	140°
Movement detection	0.3...3m/s (1...10km/h)
Possibility of fitting lighting time control	from 10s to 30min
Sensitivity adjustment range	of 2...2000lx



EMERGENCY PACKS

PHILIPS TrustSight LED EM Kit 40-80mA 1hrF	1 hour
PHILIPS TrustSight LED EM Kit 40-80mA 3hrF	3 hours



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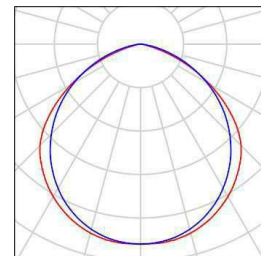
THE ENERGY-EFFICIENT LOW BAY LED LUMINAIRE

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



RON LED is a low cost and high quality low bay LED luminaire. RON LED is designated for illumination of public buildings (offices, schools, hospitals, vestibules and shops) in heights up to 5 meters high.

Luminaire housing made of sheet steel, painted white, suitable for direct mounting on the ceiling or using a hanger.



GENERAL TECHNICAL SPECIFICATIONS		Models: RN-EN2/2SQ/2500, RN-EN4/2SQ/2500	
Supply Voltage	220-230V AC	Number of LED modules	2
Supply Frequency	50-60 Hz	Lamp family code	PHILIPS Fortimo LED
RFI Suppression	EN 55015 / CISPR 15	Light color K	3000, 4000 or 6500
Immunity	EN 61547	Color Rendering Index	> 80
Harmonics	EN 6100-3-2	Min useful life L80 B50	50.000 h
Operating Temperature	-20 - +50 °C	Driver /power unit/	PHILIPS XITANIUM
Storage Temperature	-40 - +60 °C	Power factor (full load at 230V)	> 0.90
Housing material	0.8 mm powder coated steel	Dimmable	Optional
Enclosure Rating	IP42	Emergency pack	Optional
Lid material	Opal PMMA	System Wattage	35 - 70W
Cable gland	PG 13.5 (optional)	LED module efficiency	up to 175 lm/W
Protection class IEC	Safety class I	LED Luminous Flux per Fitting	up to 10.000 lm

* in preparation

GENERAL TECHNICAL SPECIFICATIONS

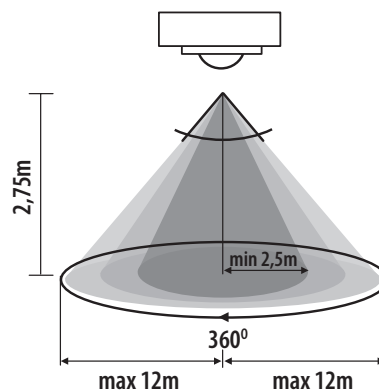
Ref.	Wattage	Available Options	Dimensions (mm)			Optimum Working Height
			L	W	H	
RN-EN2/2SQ/2500	35W	M/EM	635	635	70	2 - 5 m
RN-EN2/2SQ/2500	55W	M/EM	635	635	70	2 - 5 m
RN-EN2/2SQ/2500	70W	M/EM	635	635	70	2 - 5 m
RN-EN4/2SQ/2500	35W	M/EM	1270	370	70	2 - 5 m
RN-EN4/2SQ/2500	55W	M/EM	1270	370	70	2 - 5 m
RN-EN4/2SQ/2500	70W	M/EM	1270	370	70	2 - 5 m

Additional options	Ref.
Microvawe Sensor	M
Emergency Pack	EM

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

MICROWAVE SENSOR PARAMETERS

Maximum horizontal operation angle	360°
Maximum verical operational angle	140°
Movement detection	0.3...3m/s (1...10km/h)
Possibility of fitting lighting time control	from 10s to 30min
Sensitivity adjustment range	of 2...2000lx



EMERGENCY PACKS

PHILIPS TrustSight LED EM Kit 40-80mA 1hrF	1 hour
PHILIPS TrustSight LED EM Kit 40-80mA 3hrF	3 hours



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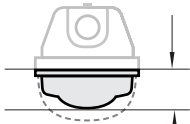
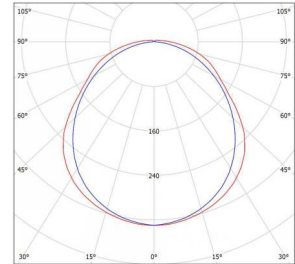
THE ENERGY-EFFICIENT LOW BAY LED LUMINAIRE ELUMA

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

low bay

LED ZL

ELUMA LOW BAY LED ZL range is a high quality low bay commercial luminaire designed to be used in heights from 2 meters and up to 5 meters. ELUMA LOW BAY LED ZL offers immediate savings of around 70% over traditional lightings.



Slimmer LED diffuser providing superb light performance.



Fixing brackets and suspension triangle included.



UV resistant cable glands included. STUCCHI (3-pole), fast connector optional.



GENERAL TECHNICAL SPECIFICATIONS		Models: LZ-EN4/1L, ZL-EN5/1L	
Supply Voltage	220-230V AC	Number of LED modules	1-3
Supply Frequency	50-60 Hz	Lamp Family Code	Philips Fortimo
RFI Suppression	EN 55015 / CISPR 15	Light color K	3000, 4000 or 5000
Immunity	EN 61547	Color Rendering Index	> 80 or > 90
Harmonics	EN 6100-3-2	Min Useful Life L80 B50	50.000 h
Operating Temperature	-20 - +35 °C	Driver /power unit/	Philips Xitanium
Storage Temperature	-40 - +60 °C	Power Factor (full load at 230V)	> 0.90
Housing Material	PC (Glass fibre reinforced polyester optional)	Dimmable	Optional
Diffuser	Frosted PC (frosted PMMA optional)	Emergency Pack	Optional
Gear Tray	Prepainted steal 0.5 mm	System Wattage	up to 65 W
Water and Dust Resistance	IP66	LED Module Efficiency	up to 165 lm/W
Impact Resistance	IK08	LED Luminous Flux per Fitting	up to 10.000 lm

* in preparation

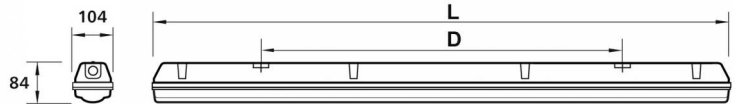
GENERAL TECHNICAL SPECIFICATIONS

Ref.	System Wattage (W)	LED Luminous Flux per Fitting	Available Options	Dimensions (mm)*		Packing Details**		Optimum Working Height
				L	D	Weight (kg)	Box (mm)	
ZL-EN4/1L/4400	25 - 35W	up to 4.400 lm	M/EM	1277	800	1.8 kg	1350x105x90	2 - 5 m
ZL-EN4/1L/8000	45 - 65W	up to 8.000 lm	M/EM	1277	800	1.8 kg	1350x105x90	2 - 5 m
ZL-EN5/1L/5500	25 - 35W	up to 5.500 lm	M/EM	1573	1100	2.3 kg	1650x105x90	2 - 5 m
ZL-EN5/1L/10000	45 - 65W	up to 10.000 lm	M/EM	1573	1100	2.3 kg	1650x105x90	2 - 5 m

* without sensor

** without sensor and emergency pack

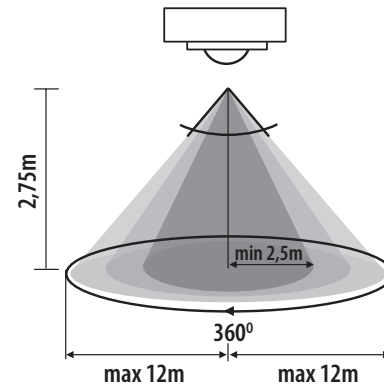
Additional options	Ref.
Integrated Microwave Sensor	M
Emergency Pack	EM



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

MICROWAVE SENSOR PARAMETERS

Maximum horizontal operation angle	360°
Maximum vertical operational angle	140°
Movement detection	0.3...3m/s (1...10km/h)
Possibility of fitting lighting time control	from 10s to 30min
Sensitivity adjustment range	of 2...2000lx



EMERGENCY PACKS

PHILIPS TrustSight LED EM Kit 40-80mA 1hrF	1 hour
PHILIPS TrustSight LED EM Kit 40-80mA 3hrF	3 hours



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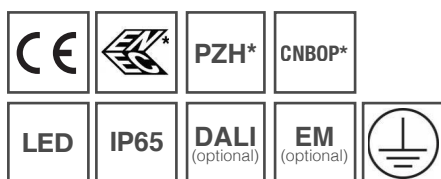
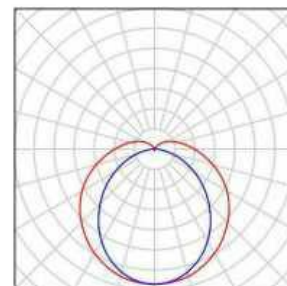
THE ENERGY-EFFICIENT LOW BAY LED LUMINAIRE ELUMA

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

ELUMA LOW BAY LED PD range is a high quality low bay commercial luminaire designed to be used in heights from 2 meters and up to 5 meters. ELUMA LOW BAY LED PD offers immediate savings of around 70% over traditional lightings.

low bay

LED PD



GENERAL TECHNICAL SPECIFICATIONS		Models: PD-EN4/1L/, PD-EN5/1L	
Supply Voltage	220-230V AC	Number of LED modules	1-3
Supply Frequency	50-60 Hz	Lamp Family Code	Philips Fortimo
RFI Suppression	EN 55015 / CISPR 15	Light color K	3000, 4000 or 5000
Immunity	EN 61547	Color Rendering Index	> 80 or > 90
Harmonics	EN 6100-3-2	Min Useful Life L80 B50	50.000 h
Operating Temperature	-20 - +35 °C	Driver /power unit/	Philips Xitanium
Storage Temperature	-40 - +60 °C	Power Factor (full load at 230V)	> 0.90
Housing Material	Glass fibre reinforced flame-resistant polyester	Dimmable	Optional
Diffuser	Opal acrylic diffuser	Emergency Pack	Optional
Gear Tray	Prepainted steal 0.5 mm	System Wattage	up to 65 W
Water and Dust Resistance	IP65	LED Module Efficiency	up to 165 lm/W
Protection class IEC	Safety class I	LED Luminous Flux per Fitting	up to 10.000 lm

* in preparation

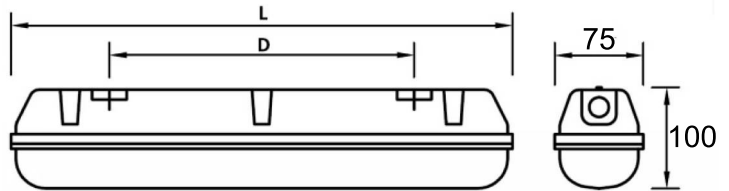
GENERAL TECHNICAL SPECIFICATIONS

Ref.	System Wattage (W)	LED Luminous Flux per Fitting	Available Options	Dimensions (mm)*		Optimum Working Height
				L	D	
PD-EN4/1L/4400	25 - 35W	4.400 lm	S/EM	1210	880	2 - 5 m
PD-EN4/1L/8000	45 - 65W	8.000 lm	S/EM	1210	880	2 - 5 m
PD-EN5/1L/5500	25 - 35W	5.500 lm	S/EM	1510	1180	2 - 5 m
PD-EN5/1L/10000	45 - 65W	10.000 lm	S/EM	1510	1180	2 - 5 m

* without sensor

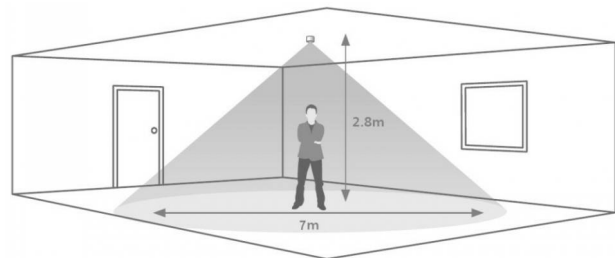
Additional options	Ref.
PIR and Light Sensor	S
Emergency Pack	EM

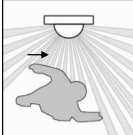
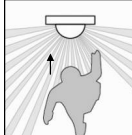
There is a possibility to order ready-to-use luminaries with desired length of cable installed.



SENSOR PARAMETERS

Model	EBMPIR-MB (CP Electronics)
Humidity	5 to 95% non-condensing
Temperature	-10°C to 50°C
	LT30 versions -30°C to 35°C
Material	Flame retardant ABS/PC
IP rating	IP65



Walk across		Walk towards													
	<table border="1"> <thead> <tr> <th>Height</th> <th>Range Diameter</th> </tr> </thead> <tbody> <tr> <td>7m</td> <td>16m</td> </tr> <tr> <td>2.8m</td> <td>9m</td> </tr> </tbody> </table>	Height	Range Diameter	7m	16m	2.8m	9m		<table border="1"> <thead> <tr> <th>Height</th> <th>Range Diameter</th> </tr> </thead> <tbody> <tr> <td>7m</td> <td>10m</td> </tr> <tr> <td>2.8m</td> <td>5m</td> </tr> </tbody> </table>	Height	Range Diameter	7m	10m	2.8m	5m
Height	Range Diameter														
7m	16m														
2.8m	9m														
Height	Range Diameter														
7m	10m														
2.8m	5m														

Area of high sensitivity Area of lower sensitivity

EMERGENCY PACKS

PHILIPS TrustSight LED EM Kit 40-80mA 1hrF	1 hour
PHILIPS TrustSight LED EM Kit 40-80mA 3hrF	3 hours





LED Luminaires and Retrofit Bulbs Licensing Program

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THE ENERGY-EFFICIENT LOW BAY LED LUMINAIRE ELUMA

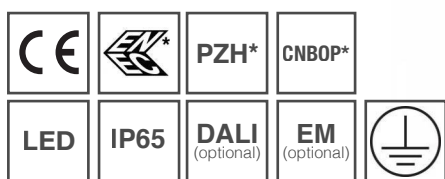
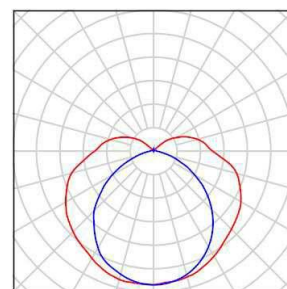
Models: LE-EN4/1L/4400, LE-EN4/1L/8000,
LE-EN5/1L/5500, LE-EN5/1L/10000

ELUMA LOW BAY LED LE range is a high quality low bay commercial luminaire designed to be used in heights from 2 meters and up to 5 meters. ELUMA LOW BAY LED LE offers immediate savings of around 70% over traditional lightings.



low bay

LED LE



GENERAL TECHNICAL SPECIFICATIONS

Supply Voltage	220-230V AC
Supply Frequency	50-60 Hz
RFI Suppression	EN 55015 / CISPR 15
Immunity	EN 61547
Harmonics	EN 6100-3-2
Operating Temperature	-20 - +35 °C
Storage Temperature	-40 - +60 °C
Housing Material	ABS
Diffuser	PC or PS
Gear Tray	Prepainted steel 0.5 mm
Water and Dust Resistance	IP65
Protection class IEC	Safety class I

Models: LE-EN4/1L/, LE-EN5/1L

Number of LED modules	1-3
Lamp Family Code	Philips Fortimo
Light color K	3000, 4000 or 5000
Color Rendering Index	> 80 or > 90
Min Useful Life L80 B50	50.000 h
Driver /power unit/	Philips Xitanium
Power Factor (full load at 230V)	> 0.90
Dimmable	Optional
Emergency Pack	Optional
System Wattage	up to 65 W
LED Module Efficiency	up to 165 lm/W
LED Luminous Flux per Fitting	up to 10.000 lm

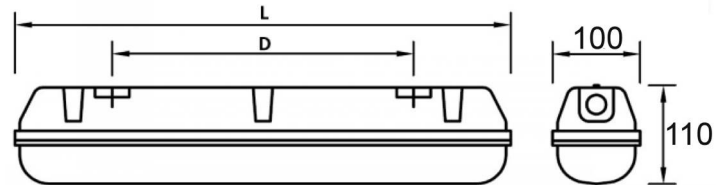
* in preparation

GENERAL TECHNICAL SPECIFICATIONS

Ref.	System Wattage (W)	LED Luminous Flux per Fitting	Available Options	Dimensions (mm)		Optimum Working Height
				L	D	
LE-EN4/1L/4400	25 - 35W	4.400 lm	M/EM	1270	835	2 - 5 m
LE-EN4/1L/8000	45 - 65W	8.000 lm	M/EM	1270	835	2 - 5 m
LE-EN5/1L/5500	25 - 35W	5.500 lm	M/EM	1570	955	2 - 5 m
LE-EN5/1L/10000	45 - 65W	10.000 lm	M/EM	1570	955	2 - 5 m

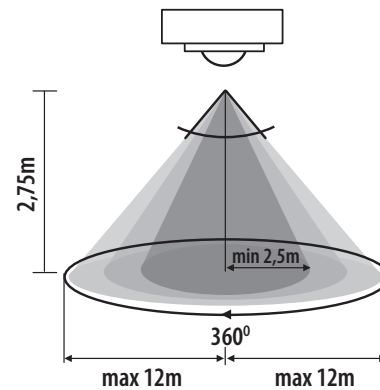
Additional options	Ref.
Integrated Microwave Sensor	M
Emergency Pack	EM

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



MICROWAVE SENSOR PARAMETERS

Maximum horizontal operation angle	360°
Maximum vertical operational angle	140°
Movement detection	0.3...3m/s (1...10km/h)
Possibility of fitting lighting time control	from 10s to 30min
Sensitivity adjustment range	of 2...2000lx



EMERGENCY PACKS

PHILIPS TrustSight LED EM Kit 40-80mA 1hrF	1 hour
PHILIPS TrustSight LED EM Kit 40-80mA 3hrF	3 hours



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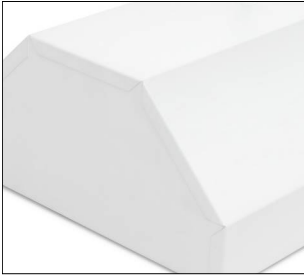


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HIGH BAY LUMINARIES

ECOLIGHT high bay luminaries are mainly designated for use in production facilities, sport areas and warehouses in heights greater than 4 meters and up to 25 meters. The special highlights of the ECOLIGHT high bays are high quality and energy-efficient light source in conjunction with optimum light control. All ECOLIGHT high bay luminaries has adjustable lamp positions which allows to archive maximum efficiency in high ceiling applications and distribute the light very uniformly even under adverse conditions.



- Housing made of powder-coated 0.8 mm steel sheet color: white, RAL 9016L
- Special colors and coatings on request
- Special housings made from stainless steel available



- Latest T5 fluorescent technology enables optimized and energy efficient lighting
- Better light quality in comparison to high pressure discharge (HID) lamps



- Special Sport Protection Cages are available on special request



- Best ECG/EVG technology from OSRAM or PHILIPS
- Up to 100,000 hours lifetime
- Special ballasts on request



- Advanced lids with a corrosion-resistant aluminum frame (IP65) for LUMINA models



- Five light output options allows to focus the light according requirements
- High reflectivity reflector with high-quality MIRO 4 material which reflects up to 95% of light



- Lids available in PMMA, Polycarbonate or Tempered Glass versions. This allows an optimal adaptation to the environmental conditions.



- All models are available with emergency packs



- Control by sensors and light management as an option



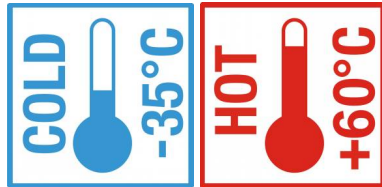
- Easy and fast push-in lamp insertion technology sockets provides excellent contact even during high vibrations

THE ENERGY-EFFICIENT HIGH BAY LUMINAIRE

Models: EL-EN5/4L/35, EL-EN5/4L/45, EL-EN5/4L/73
EL-EN4/4L/25, EL-EN4/4L/50



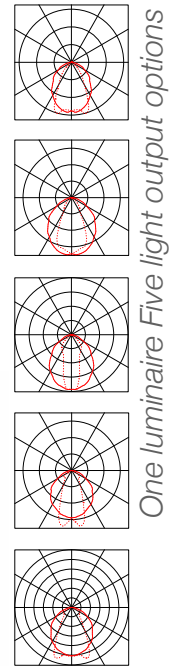
LUMINA is an energy-efficient high bay commercial luminaire available in big number of modifications.



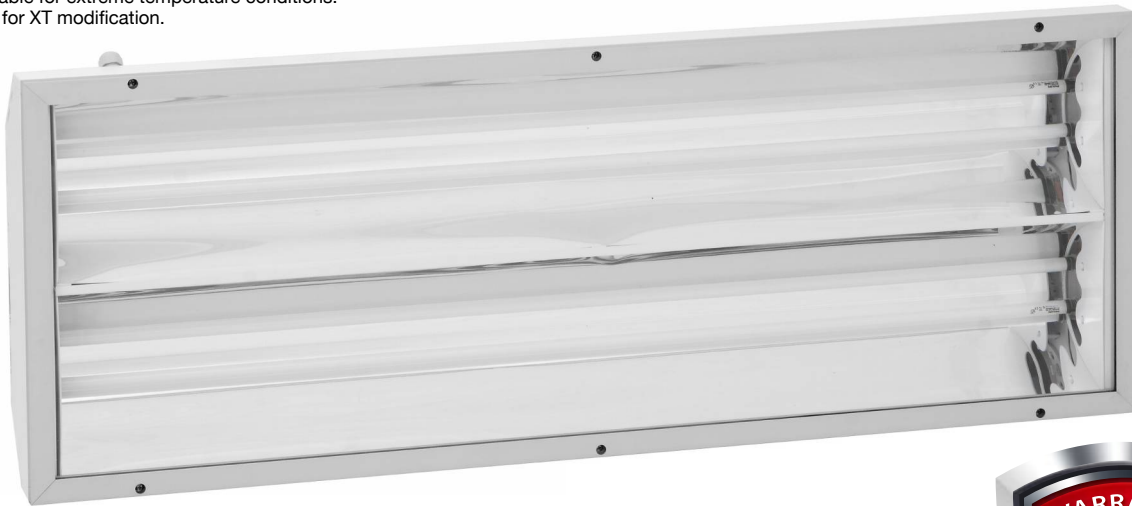
The highly optically efficient reflector design ensures optimum light distribution from heights greater than 4 meters and up to 25 meters and offers immediate savings of around 50% over traditional lightings. Units fitted with an intelligent sensor can easily extend savings to more than 80%.



Suitable for extreme temperature conditions. Ask for XT modification.



One luminaire Five light output options



GENERAL TECHNICAL SPECIFICATIONS		Models: EL-EN5/4L, EL-EN4/4L	
Supply Voltage	220-230V AC	Number of light sources	4
Supply Frequency	50-60 Hz	Fluorescent Lamp Type	T5
RFI Suppression	EN 55015 / CISPR 15	Light color K	3000, 4000 or 6500
Immunity	EN 61547	Light source replaceable	Yes
Harmonics	EN 6100-3-2	Color Rendering Index	> 80 or > 90
Operating Temperature	-25 - +50 °C	Lamp median useful life B50	30.000 h
Storage Temperature	-40 - +60 °C	Driver /power unit/	Philips / Osram
Housing material	0.8 mm powder coated steel	Light output depreciation	up to 10% only
Enclosure Rating	IP54 or IP65	Power Factor (full load at 230V)	> 0.95
Lid material	PMMA, Polycarbonate or Tempered Glass	Dimmable	Optional
Cable gland	PG 13.5 or STUCCHI (3-pole) fast plug optional	Emergency Pack	Optional
Reflector	High purity MIRO 4	Protection class IEC	Safety class I

* in preparation

GENERAL TECHNICAL SPECIFICATIONS

Ref.	Recommended Lamps (W)	Luminous Flux per Fitting	Available Options	Dimensions (mm)*			Optimum Working Height
				L	W	H	
EL-EN5/4L/35	4x35W	14.600 lm	S/P/EM/SP/XT	1510	445	135	4 - 10 m
EL-EN5/4L/45	4x45W	19.600 lm	S/P/EM/SP/XT	1510	445	135	4 - 20 m
EL-EN5/4L/73	4x73W	28.000 lm	S/P/EM/SP/XT	1510	445	135	4 - 25 m
EL-EN4/4L/25	4x25W	11.600 lm	S/P/EM/SP/XT	1210	445	135	4 - 10 m
EL-EN4/4L/50	4x50W	20.000 lm	S/P/EM/SP/XT	1210	445	135	4 - 20 m

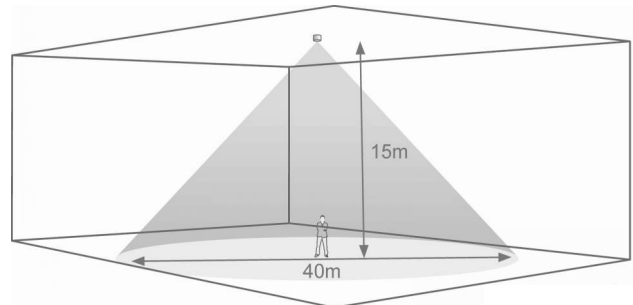
* without sensor

Additional options	Ref.
Light and PIR Sensor	S
PIR Sensor	P
Emergency Pack	EM
Protective Sport Cage	SP
Enforced version	XT

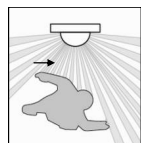
There is a possibility to order ready-to-use luminaries with desired length of cable and lamps installed.

SENSOR PARAMETERS

Model	EBMHS-MB (CP Electronics)
Humidity	5 to 95% non-condensing
Temperature	-10°C to 50°C
	LT30 versions -30°C to 35°C
Material	Flame retardant ABS/PC
IP rating	IP65

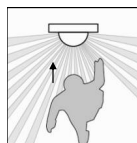


Walk across



Height	Range Diameter
15m	40m
10m	28m
6m	16m
3m	9m

Walk towards



Height	Range Diameter
15m	30m
10m	20m
6m	12m
3m	8m



LED Luminaires and Retrofit Bulbs Licensing Program

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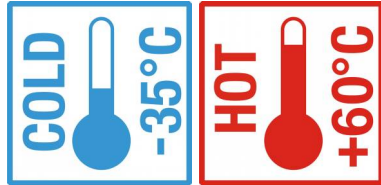
ELEKTROS TAUPYMO SPRENDIMAI, UAB
P. Luksio str. 1, Vilnius 08221, Lithuania
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THE ENERGY-EFFICIENT HIGH BAY LUMINAIRE

Models: EL-EN5/2L/35, EL-EN5/2L/45, EL-EN5/2L/73,
EL-EN4/2L/25, EL-EN4/2L/50



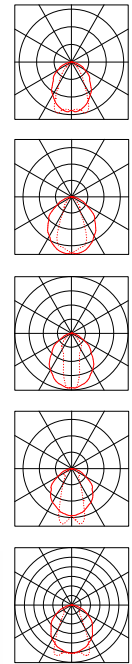
LUMINA is an energy-efficient high bay commercial luminaire available in big number of modifications.



The highly optically efficient reflector design ensures optimum light distribution from heights greater than 4 meters and up to 25 meters and offers immediate savings of around 50% over traditional lightings. Units fitted with an intelligent sensor can easily extend savings to more than 80%.



Suitable for extreme temperature conditions. Ask for XT modification.



One luminaire Five light output options



GENERAL TECHNICAL SPECIFICATIONS		Models: EL-EN5/2L, EL-EN4/2L	
Supply Voltage	220-230V AC	Number of light sources	2
Supply Frequency	50-60 Hz	Fluorescent Lamp Type	T5
RFI Suppression	EN 55015 / CISPR 15	Light color K	3000, 4000 or 6500
Immunity	EN 61547	Light source replaceable	Yes
Harmonics	EN 6100-3-2	Color Rendering Index	> 80 or > 90
Operating Temperature	-25 - +50 °C	Lamp median useful life B50	30.000 h
Storage Temperature	-40 - +60 °C	Driver /power unit/	Philips / Osram
Housing material	0.8 mm powder coated steel	Light output depreciation	up to 10% only
Enclosure Rating	IP54 or IP65	Power Factor (full load at 230V)	> 0.95
Lid material	PMMA, Polycarbonate or Tempered Glass	Dimmable	Optional
Cable gland	PG 13.5 or STUCCHI (3-pole) fast plug optional	Emergency Pack	Optional
Reflector	High purity MIRO 4	Protection class IEC	Safety class I

* in preparation

GENERAL TECHNICAL SPECIFICATIONS

Ref.	Recommended Lamps (W)	Luminous Flux per Fitting	Available Options	Dimensions (mm)*			Optimum Working Height
				L	W	H	
EL-EN5/2L/35	2x35W	7.300 lm	S/P/EM/SP/XT	1510	245	135	4 - 10 m
EL-EN5/2L/45	2x45W	9.800 lm	S/P/EM/SP/XT	1510	245	135	4 - 15 m
EL-EN5/2L/73	2x73W	14.000 lm	S/P/EM/SP/XT	1510	245	135	4 - 20 m
EL-EN4/2L/25	2x25W	5.800 lm	S/P/EM/SP/XT	1210	245	135	4 - 10 m
EL-EN4/2L/50	2x50W	10.000 lm	S/P/EM/SP/XT	1210	245	135	4 - 15 m

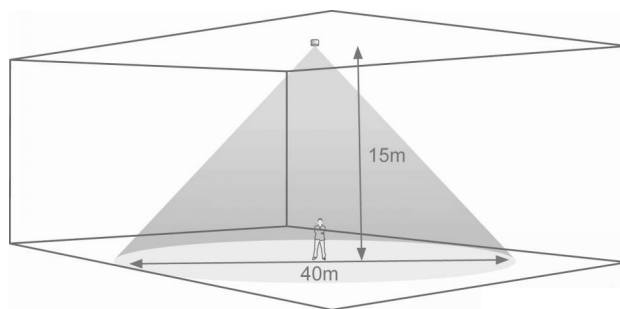
* without sensor

Additional options	Ref.
Light and PIR Sensor	S
PIR Sensor	P
Emergency Pack	EM
Protective Sport Cage	SP
Enforced version	XT

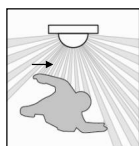
There is a possibility to order ready-to-use luminaries with desired length of cable and lamps installed.

SENSOR PARAMETERS

Model	EBMHS-MB (CP Electronics)
Humidity	5 to 95% non-condensing
Temperature	-10°C to 50°C
	LT30 versions -30°C to 35°C
Material	Flame retardant ABS/PC
IP rating	IP65

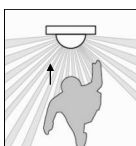


Walk across



Height	Range Diameter
15m	40m
10m	26m
6m	16m
3m	9m

Walk towards



Height	Range Diameter
15m	30m
10m	20m
6m	12m
3m	8m

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THE ENERGY-EFFICIENT HIGH BAY LUMINAIRE

Models: ES-EN5/4L/35, ES-EN5/4L/45, ES-EN5/4L/73,

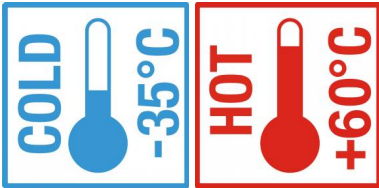
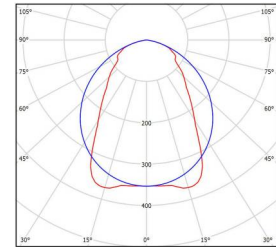
ES-EN4/4L/25, ES-EN4/4L/50

SAULA is a low cost and high quality energy-efficient high bay commercial luminaire available in big number of different modifications.

SAULA is designed to be installed from heights greater than 4 meters and up to 10 meters and offers immediate savings of around 50% over traditional lightings. Units fitted with an intelligent sensor can easily extend savings to more than 80%.

saula

T5 TECHNOLOGY



Suitable for extreme temperature conditions. Ask for XT modification.



(optional)



GENERAL TECHNICAL SPECIFICATIONS		Models: ES-EN5/4L, ES-EN4/4L	
Supply Voltage	220-230V AC	Number of light sources	4
Supply Frequency	50-60 Hz	Fluorescent Lamp Type	T5
RFI Suppression	EN 55015 / CISPR 15	Light color K	3000, 4000 or 6500
Immunity	EN 61547	Light source replaceable	Yes
Harmonics	EN 61000-3-2	Color Rendering Index	> 80 or > 90
Operating Temperature	-25 - +50 °C	Lamp median useful life B50	30.000 h
Storage Temperature	-40 - +60 °C	Driver /power unit/	Philips / Osram
Housing material	0.8 mm powder coated steel	Light output depreciation	up to 10% only
Enclosure Rating	IP54 or IP65	Power Factor (full load at 230V)	> 0.95
Lid material	PMMA, Polycarbonate or Tempered Glass	Dimmable	Optional
Cable gland	PG 13.5 or STUCCHI (3-pole) fast plug optional	Emergency Pack	Optional
Reflector	High purity MIRO 4	Protection class IEC	Safety class I

* in preparation

GENERAL TECHNICAL SPECIFICATIONS

Ref.	Recommended Lamps (W)	Luminous Flux per Fitting	Available Options	Dimensions (mm)*			Optimum Working Height
				L	W	H	
ES-EN5/4L/35	4x35W	14.600 lm	S/P/EM/SP/XT	1510	445	60	2 - 5 m
ES-EN5/4L/45	4x45W	19.600 lm	S/P/EM/SP/XT	1510	445	60	2 - 10 m
ES-EN5/4L/73	4x73W	28.000 lm	S/P/EM/SP/XT	1510	445	60	2 - 10 m
ES-EN4/4L/25	4x25W	11.600 lm	S/P/EM/SP/XT	1210	445	60	2 - 5 m
ES-EN4/4L/50	4x50W	20.000 lm	S/P/EM/SP/XT	1210	445	60	2 - 10 m

* without sensor

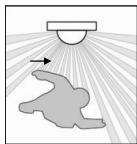
Additional options	Ref.
Light and PIR Sensor	S
PIR Sensor	P
Emergency Pack	EM
Protective Sport Cage	SP
Enforced version	XT

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

SENSOR PARAMETERS

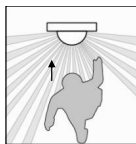
Model	EBMPIR-MB (CP Electronics)
Humidity	5 to 95% non-condensing
Temperature	-10°C to 50°C
	LT30 versions -30°C to 35°C
Material	Flame retardant ABS/PC
IP rating	IP65

Walk across

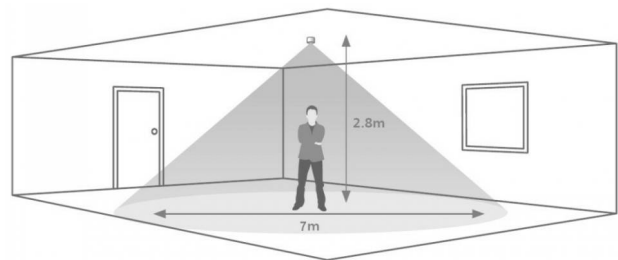


Height	Range Diameter
7m	16m
2.8m	9m

Walk towards



Height	Range Diameter
7m	10m
2.8m	5m



Area of high sensitivity Area of lower sensitivity

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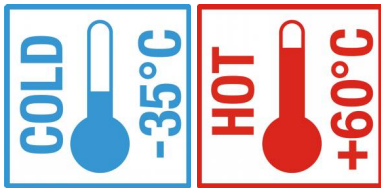
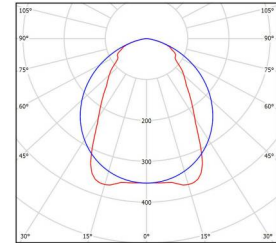
THE ENERGY-EFFICIENT HIGH BAY LUMINAIRE

Models: ES-EN5/2L/35, ES-EN5/2L/45, ES-EN5/2L/73,
ES-EN4/2L/25, ES-EN4/2L/50



SAULA is a low cost and high quality energy-efficient high bay commercial luminaire available in big number of different modifications.

SAULA is designed to be installed from heights greater than 4 meters and up to 10 meters and offers immediate savings of around 50% over traditional lightings. Units fitted with an intelligent sensor can easily extend savings to more than 80%.



Suitable for extreme temperature conditions.
Ask for XT modification.



GENERAL TECHNICAL SPECIFICATIONS		Models: ES-EN5/2L, ES-EN4/2L	
Supply Voltage	220-230V AC	Number of light sources	2
Supply Frequency	50-60 Hz	Fluorescent Lamp Type	T5
RFI Suppression	EN 55015 / CISPR 15	Light color K	3000, 4000 or 6500
Immunity	EN 61547	Light source replaceable	Yes
Harmonics	EN 6100-3-2	Color Rendering Index	> 80 or > 90
Operating Temperature	-25 - +50 °C	Lamp median useful life B50	30.000 h
Storage Temperature	-40 - +60 °C	Driver /power unit/	Philips / Osram
Housing material	0.8 mm powder coated steel	Light output depreciation	up to 10% only
Enclosure Rating	IP54 or IP65	Power Factor (full load at 230V)	> 0.95
Lid material	PMMA, Polycarbonate or Tempered Glass	Dimmable	Optional
Cable gland	PG 13.5 or STUCCHI (3-pole) fast plug optional	Emergency Pack	Optional
Reflector	High purity MIRO 4	Protection class IEC	Safety class I

* In preparation

GENERAL TECHNICAL SPECIFICATIONS

Ref.	Recommended Lamps (W)	Luminous Flux per Fitting	Available Options	Dimensions (mm)*			Optimum Working Height
				L	W	H	
ES-EN5/2L/35	2x35W	7.300 lm	S/P/EM/SP/XT	1510	245	60	2 - 5 m
ES-EN5/2L/45	2x45W	9.800 lm	S/P/EM/SP/XT	1510	245	60	2 - 10 m
ES-EN5/2L/73	2x73W	14.000 lm	S/P/EM/SP/XT	1510	245	60	2 - 10 m
ES-EN4/2L/25	2x25W	5.800 lm	S/P/EM/SP/XT	1210	245	60	2 - 5 m
ES-EN4/2L/50	2x50W	10.000 lm	S/P/EM/SP/XT	1210	245	60	2 - 10 m

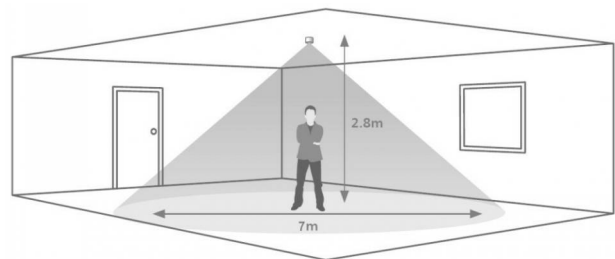
* without sensor

Additional options	Ref.
Light and PIR Sensor	S
PIR Sensor	P
Emergency Pack	EM
Protective Sport Cage	SP
Enforced version	XT

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

SENSOR PARAMETERS

Model	EBMPIR-MB (CP Electronics)
Humidity	5 to 95% non-condensing
Temperature	-10°C to 50°C
	LT30 versions -30°C to 35°C
Material	Flame retardant ABS/PC
IP rating	IP65



Area of high sensitivity Area of lower sensitivity

Walk across		Walk towards	
Height	Range Diameter	Height	Range Diameter
7m	16m	7m	10m
2.8m	9m	2.8m	5m

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LOW BAY LUMINARIES

ECOLIGHT low bay luminaries are mainly designated for use in open areas from heights greater than 2 meters and up to 4 meters where wide beam angle is required. The special highlights of the ECOLIGHT low bays are low budget, high quality and energy-efficient light source in conjunction with optimum light control.



- IP65 models with ABS body and PC or PS diffusors



- Best ECG/EVG technology from OSRAM or PHILIPS
- Up to 100,000 hours lifetime
- Special ballasts on request



- IP65 models with MIRO 4 reflectors from ALANOD



- Emergency packs available



- Clamps are available in plastic or stainless steel



- Control by sensors and light management as an option

THE ENERGY-EFFICIENT LOW BAY LUMINAIRE ELUMA

Models: SE-EN4/2L, SE-EN4/1L, SE-EN5/2L, SE-EN5/1L

low bay

T5 TECHNOLOGY

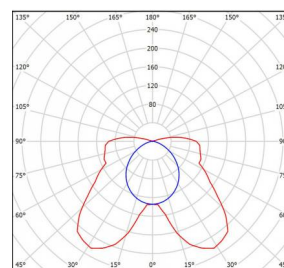
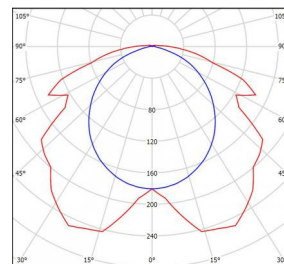
ELUMA LOW BAY SE range is a high quality low bay commercial luminaire designed to be used in heights from 2 meters and up to 5 meters. ELUMA LOW BAY SE offers immediate savings of around 40% over traditional



Fixing brackets and suspension triangle included.



Cable glands included. STUCCHI (3-pole), fast connector optional.



CE		PZH*	CNBOP*
T5	IP65	DALI (optional)	EM (optional)

GENERAL TECHNICAL SPECIFICATIONS	
Supply Voltage	220-230V AC
Supply Frequency	50-60 Hz
RFI Suppression	EN 55015 / CISPR 15
Immunity	EN 61547
Harmonics	EN 6100-3-2
Operating Temperature	-20 - +50 °C
Storage Temperature	-40 - +60 °C
Housing Material	ABS
Diffuser	Polycarbonate
Gear Tray	Prepainted steel 0.5 mm
Water and Dust Resistance	IP65
Reflector	High purity MIRO 4

Models: SE-EN4/2L, SE-EN4/1L, SE-EN5/2L, SE-EN5/1L	
Number of light sources	1 or 2
Fluorescent Lamp Type	T5
Light color K	3000, 4000 or 6500
Light source replaceable	Yes
Color Rendering Index	> 80 or > 90
Lamp median useful life B50	30.000 h
Driver /power unit/	Philips / Osram
Light output depreciation	up to 10% only
Power Factor (full load at 230V)	> 0.95
Dimmable	Optional
Emergency Pack	Optional
Protection class IEC	Safety class I

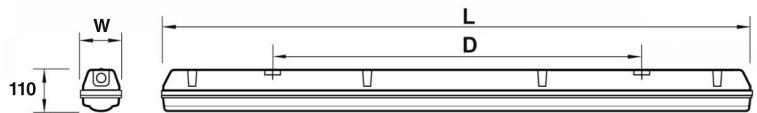
* in preparation

GENERAL TECHNICAL SPECIFICATIONS

Ref.	Recommended Lamps (W)	Luminous Flux per Fitting	Available Options	Dimensions (mm)*			Optimum Working Height
				L	D	W	
SE-EN4/1L/28	1x28W	2.900 lm	P/S	1270	845	100	2 - 5 m
SE-EN5/1L/35	1x35W	3.650 lm	P/S/EM	1570	955	100	2 - 5 m
SE-EN5/1L/49	1x49W	4.900 lm	P/S/EM	1570	955	100	2 - 5 m
SE-EN4/1L/54	1x54W	5.000 lm	P/S	1270	845	100	2 - 5 m
SE-EN5/1L/80	1x80W	7.000 lm	P/S/EM	1570	955	100	2 - 5 m
SE-EN4/2L/28	2x28W	5.800 lm	P/S/EM	1270	845	160	2 - 5 m
SE-EN5/2L/35	2x35W	7.300 lm	P/S/EM	1570	955	160	2 - 5 m
SE-EN5/2L/49	2x49W	9.800 lm	P/S/EM	1570	955	160	2 - 5 m
SE-EN4/2L/54	2x54W	10.000 lm	P/S/EM	1270	845	160	2 - 5 m

* without sensor

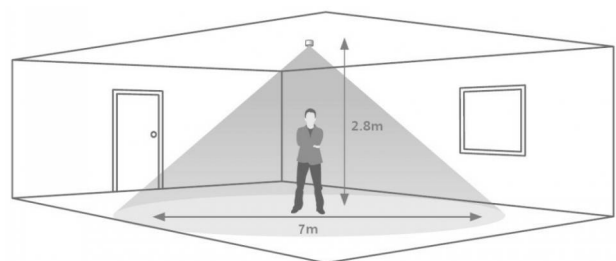
Additional options	Ref.
PIR Sensor	P
PIR and Light Sensor	S
Emergency Pack	EM



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

SENSOR PARAMETERS

Model	EBMPIR-MB (CP Electronics)
Humidity	5 to 95% non-condensing
Temperature	-10°C to 50°C
	LT30 versions -30°C to 35°C
Material	Flame retardant ABS/PC
IP rating	IP65



Area of high sensitivity Area of lower sensitivity

Walk across		Walk towards	
	Height	Range Diameter	
	7m	16m	
	2.8m	9m	
	7m	10m	
	2.8m	5m	



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SENSORS

<p>REF: EBDHS</p> <p>CEILING PIR HS PRESENCE DETECTOR</p> <p>The EBDHS PIR (passive infrared) presence detector provides automatic control of lighting loads with optional manual control. The EBDHS is a high sensitivity PIR detector suitable for high bay applications, such as warehouses and factories, and where high detection sensitivity is needed. Provides dimmable control of 1-10V and DALI ballasts.</p> <p>The EBDHS-LT30 range of high sensitivity detectors is perfect for this application with its operating temperature of -30°C and detection range of up to 40m.</p>		<p>REF: M</p> <p>MINIATURE MICROWAVE PRESENCE DETECTORS</p> <p>Miniature microwave presence detectors provide automatic control of lighting loads with optional manual control. As microwave radiation penetrates plastic and glass, this unit has been specifically designed to be used inside a luminaire.</p> <p>The unit detects movement using a microwave sensor and turns the load on. When an area is no longer occupied the load will switch off after an adjustable time out period.</p>	
<p>REF: EBMPIR</p> <p>BATTEN MOUNT PRESENCE DETECTORS</p> <p>The EBMPIR-MB series of batten mount PIR presence detectors provide automatic control of lighting loads. It has been specifically designed for mounting onto a batten style luminaire.</p> <p>The direct dim variant controls DALI or DSI digital dimming ballasts, whilst the analogue dim variant controls 1-10V dimming ballasts.</p> <p>The EBMPIR-MB-LT30 range is perfect to use in car parking or low bay freezer room application where the temperature is aggressively cold to -30°C.</p>		<p>REF: UNLCDHS</p> <p>The UNLCDHS is a compact infrared handset used for the operation, configuration and programming of CP products that have the ability to be programmed via IR and/or RF.</p>	
<p>REF: EBDHS-MB</p> <p>BATTEN MOUNT HS PRESENCE DETECTORS</p> <p>The EBDHS-MB luminaire mount high bay PIR presence detector range provides exceptionally sensitive and long range detection. The detectors are ideal for high bay lighting control in areas with demanding spaces and increased mounting heights such as warehouses and factories, and are simple to retrofit to commercial luminaires and basic battens.</p> <p>Three models are available: premium (PRM), direct dim (DD), and analogue dim (AD) all of which will switch incandescent, fluorescent, compact fluorescent and LED lighting. The direct dim variant controls DALI or DSI digital dimming ballasts whilst the analogue dim variant controls 1-10V dimming ballasts.</p>		<p>REF: UHS5</p> <p>The UHS5 is a compact infrared handset used for the basic programming of IR enabled CP products.</p>	

SUSPENSION SETS & ITEMS

Reference	Description	Picture	Reference	Description	Picture
HF12FR	HF CLASSIC LOOP END FIXING NO.1 (0-10 KG) 2M		99008405	Eye bolts M5	
HF12ECSEXP	HF EXPRESS SNAP-ON MINI HOOK END FIXING NO.1 (0-15 KG) 2M				
HF12ECS	HF CLASSIC SMALL SNAP-ON HOOK END FIXING NO.1 (0-10 KG) 2M		99008406	Eye bolts M8	
HF12EF6	HF CLASSIC STUD M6 END FIXING NO.1 (0-10 KG) 2M				
HF22EF8	HF CLASSIC STUD M8 END FIXING NO.2 (10-45 KG) 2M		99008407	Carabiner hook M6	
HF12EO90	HF CLASSIC 90° EYELET END FIXING NO.1 (0-10 KG) 2M		99008410	3 x 1.5 mm² solid wire	
HF12SP	HF CLASSIC TOGGLE END FIXING NO.1 (0-10 KG) 2M		99008411	3 x 2.5 mm² solid wire	
			99008412	3 x 1.5 mm² soft wire	
			99008413	3 x 2.5 mm² soft wire	
SQCM612EC	SQUEEZE LOCK CENTRAL EXIT M6 MALE NO.1 (0-15 KG) 2M HOOK END FIXING		99008514	5 x 1.5 mm² solid wire	
			99008515	5 x 2.5 mm² solid wire	
			99008516	5 x 1.5 mm² soft wire	
			99008517	5 x 2.5 mm² soft wire	
YF12EC500	Y-FIT CLASSIC SNAP-ON HOOK NO.1 (0-10 KG) 2M - LEG LENGTH 500MM				
YF12EC300	Y-FIT CLASSIC SNAP-ON HOOK NO.1 (0-10 KG) 2M - LEG LENGTH 300MM				
YF12ECS300	Y-FIT CLASSIC MINI SNAP-ON HOOK NO.1 (0-10 KG) 2M - LEG LENGTH 300MM		99008412	FENOSOL® S 10 UVA Anti-Static cleaning agent with a very weakly abrasive effect, for white profile surfaces. Controls the attraction of dirt and dust. Qty: 1000 ml	
YF12ECS500	Y-FIT CLASSIC MINI SNAP-ON HOOK NO.1 (0-10 KG) 2M - LEG LENGTH 500MM				

CERTIFICATES

<p>ISO 9001:2008</p> <p>BUREAU VERITAS CERTIFICATION</p> <p>ECOLIGHT as a professional lighting manufacturer, provider of lighting installation, maintenance, testing and commissioning services is committed to developing and maintaining a Quality Management System in accordance with the requirements of ISO 9001:2008.</p>		<p>ENEC MARK*</p> <p>INDEPENDENT LABORATORY</p> <p>ENEC is the high quality European Mark for electrical products that demonstrates compliance with European standards (EN). ENEC means safety in Europe, and all signatories of the ENEC Mark Scheme actively support its commitment to the highest safety levels.</p> <p>* in preparation.</p>	
<p>ISO 14001:2004</p> <p>BUREAU VERITAS CERTIFICATION</p> <p>As a manufacturer of energy efficient lighting ECOLIGHT understands great importance of protecting the environment in which we live. ECOLIGHT has implemented an environmental care system with the objective of company's activity in compliance with the environmental legislation.</p>		<p>DIN 18032-3 AND EN 13964</p> <p>UNIVERSITY OF STUTT GART</p> <p>LUMINA and SAULA models have passed testing of the ball throwing safety of an installation element according to DIN 18032-3:1997-04 "Sport halls; Halls for gymnastics, games and multi-purpose use; as well as the impact resistance of a ceiling element" according to EN 13 964 Annex D. This Certification means that LUMINA and SAULA units are safe to use in Sport Halls without any additional protection cage.</p>	
<p>OHSAS 18001:2007</p> <p>BUREAU VERITAS CERTIFICATION</p> <p>Being social enterprise and employing people with disabilities ECOLIGHT recognizes the importance of managing occupational health, safety and welfare throughout all our operations and activities and we regard it as integral to our overall business strategy.</p>		<p>POLAND PZH CERTIFICATE*</p> <p>NATIONAL HYGIENE INSTITUTE (POLAND)</p> <p>The National Hygiene Institute (PZH) certificate of approval for sale and usage of ECOLIGHT luminaries.</p> <p>* in preparation.</p>	
<p>CE MARK</p> <p>ECOLIGHT & EGSC</p> <p>All ECOLIGHT luminaries complies with the requirements of the Low Voltage Directive 2006/95/EB and EN 60598-1 Also with the requirements of the European Electromagnetic Compatibility (EMC) Directive 2004/108/EB: EN55015 for radio disturbance, EN61547 for EMC immunity and EN6100-3-2, EN6100-6-1, EN6100-6-3 for harmonics.</p>		<p>CNBOP Certificate of Admittance*</p> <p>THE NATIONAL AND RESEARCH CENTRE FOR FIRE PROTECTION</p> <p>Certificates of Admittance issued by The National and Research Centre for Fire Protection issues is only required on territory of Poland according to Act issued 24.08.1991 regarding fire protection (O.J. 2009 no. 178, pos. 1380), together with executive acts.</p> <p>* in preparation.</p>	

ABOUT ECOLIGHT FACTORY

The ECOLIGHT lighting factory located in Lithuania is a professional lighting manufacturer since 2009. ECOLIGHT is a social enterprise company and employs people with disabilities. The company employs 35 people.

The Major focus of the company is the production of energy saving lightings. Factory produces intelligent low, middle and high bay lighting for sport and industrial applications. All products made by ECOLIGHT are designed to use in indoor industrial applications from 2 to 25 meters high. About 70% of all factory production is being exported.

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



OUR MISSION AND PHILOSOPHY STATEMENT

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



Ecolight[™]
Save simple.

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