



# PLANOX ECO

LUMINAIRES FOR MOIST/HUMID ENVIRONMENTS

# PLANOX ECO

Luminaires for moist/humid environments

## YES. DIFFERENT FROM THE REST...

With a particularly slim and flat design, thought out down to the smallest detail and with a unique price-performance ratio: replacing "old with new" and switching to LED technology is possible with the PLANOX ECO moisture-proof luminaire with a minimum of expense and effort.

The articulated, stainless-steel mounting brackets, which are included in the package contents, are a practical advantage of the innovative moisture-proof luminaire. They enable flexible installation and the use of existing boreholes to replace the light fitting. PLANOX ECO also features particularly resistant and high-quality materials, extreme impact strength through shockproof polycarbonate (PC), thermal resistance and high protection classes. The PLANOX ECO series is also available now with a movement sensor, providing even greater efficiency in all applications.

## ADDITIONAL ADVANTAGES

- ⊕ Design-oriented moisture-proof luminaire
- ⊕ 1:1 replacement for fluorescent lamps
- ⊕ Indirect light to illuminate the ceiling
- ⊕ ▽ Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected
- ⊕ Operating range: -30°C to +50°C
- ⊕ Operating range (with movement sensor): -20°C to +50°C
- ⊕ High degree of protection IP 66
- ⊕ Impact protection: IK08
- ⊕ Housing and end caps made of shockproof polycarbonate (PC)
- ⊕ Mould cast diffusers are realized as inner prisms, UV resistant and provide homogenous light distribution
- ⊕ Flexible installation through sliding mounting bracket. Ideal for luminaire replacement
- ⊕ Through-wiring as standard for further luminaires (safety class I and II)
- ⊕ Cable installation on both sides through turn lock fastener
- ⊕ Comfortable cable entry through cable screw fittings at both ends
- ⊕ Suitable for use in the food and drink industry
- ⊕ Versions with infrared movement sensor, adjustable time delay of 10 s to 20 min and response brightness of 1 to 50 lux





# PLANOX ECO

## Technology

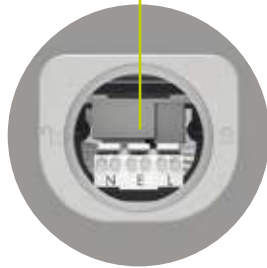


Versions with infrared movement sensor, adjustable time delay of 10 s to 20 min and response brightness of 1 to 50 lux

Sealed as standard



Can be opened and closed without tools using a turn lock fastener, cable screw fitting as standard



Simple connection by means of terminal with push-on connector

On-board through-wiring as standard for further luminaires (safety class I and II)



Housing and end caps made of shockproof polycarbonate (PC)





Suitable for use in the food and drink industry



Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected

Flexible installation through sliding mounting bracket  
Ideal for luminaire replacement



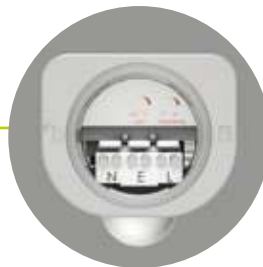
Homogeneous light output through satin-finished, internal prismatic diffuser

# PLANOX ECO

Everything at a glance



In 3 lengths and 5 wattages

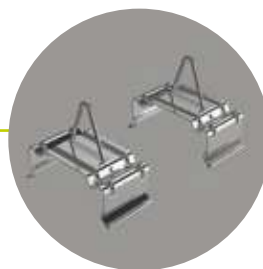


The sensitivity and time regulation can simply be adjusted with movement sensor model



**Accessories:**

Mounting brackets made of stainless steel (theft protection) for ceiling and wall mounting

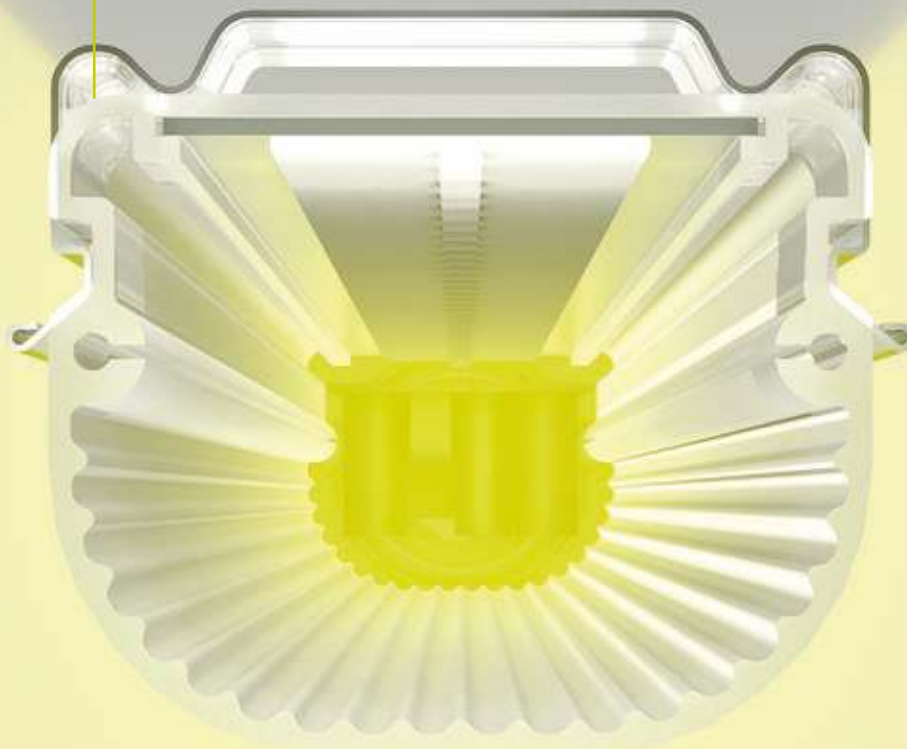


**Included in scope of delivery:**

Ceiling mounting bracket and triangular bracket for pendant mounting

Indirect light to illuminate the ceiling

Homogeneous illumination through satin finish diffuser



## PHOTOMETRICS

- ⊕ Luminous efficiency up to 132 lm/W
- ⊕ LED luminous flux up to 6,750 lm
- ⊕ Colour temperature 4,000 K
- ⊕ Colour rendering index Ra 80
- ⊕ Symmetrical light distribution
- ⊕ LED rated life 50,000 h (L80, B10)
- ⊕ Good colour consistency within 3-steps MacAdam (3 SDCM)
- ⊕ 1:1 replacement for fluorescent lamps

# PLANOX ECO

## Product overview



### Ceiling and wall luminaires | Series: Planox ECO

Type of Protection: **IP 66**  
 Protection Class: II  
 Impact Protection: IK08



Side panels: plastic, grey polycarbonate. Diffuser: plastic (non-yellowing polycarbonate), opal. Converter encapsulated, integrated and permanently connected to the diffuser and side panel. Cable screw fittings for convenient wiring. Turn lock fastener on both sides for easy installation. Luminaire with intergrated 3-phase through wiring to connect multiple luminaires (protection class I and II). Ceiling mounting stainless steel brackets and triangular brackets for pendant mounting included in the scope of delivery.

▽ Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected.

LED included.

Available colour: 9 = grey

### Comparison LED vs. conventional lamps

#### LED 20 / 23 W ≈

1 x 49 W T16 (53 W EB)  
 1 x 54 W T16 (58 W EB)

#### LED 33 / 37 W ≈

1 x 80 W T16 (86 W EB)

#### LED 53 W ≈

2 x 49 W T16 (106 W EB)  
 2 x 54 W T16 (115 W EB)



### Ceiling and wall luminaires without movement sensor

Price Category 11

#### Length L 769 mm

Reference number	Dimensions	Lamp	Light colour	Luminaire flux	System power	dim-able	EEC
451210.009 .Q	L 769, B 61, H 50	LED	840	2250 lm	20 W	on/off	A+   A+

#### Length L 1369 mm

451211.009 .Q	L 1369, B 61, H 50	LED	840	2800 lm	23 W	on/off	A+   A+
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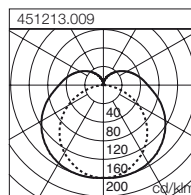
451212.009 .Q	L 1369, B 61, H 50	LED	840	4900 lm	37 W	on/off	A+   A+
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#### Length L 1669 mm

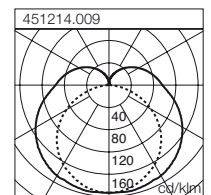
451213.009 .Q	L 1669, B 61, H 50	LED	840	4100 lm	33 W	on/off	A+   A+
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451214.009 .Q	L 1669, B 61, H 50	LED	840	6750 lm	53 W	on/off	A+   A+
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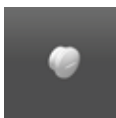
451213.009			
<b>Floor 12 x 2,5 x 3m (0,2m)</b>			
100 lx	150 lx	200 lx	
2	3	4	
<b>Room 6 x 4 x 3 m (0,75 m)</b>			
200 lx	300 lx	500 lx	
3	5	7	



451214.009			
<b>Floor 12 x 2,5 x 3m (0,2m)</b>			
100 lx	150 lx	200 lx	
2	2	3	
<b>Room 6 x 4 x 3 m (0,75 m)</b>			
200 lx	300 lx	500 lx	
2	3	5	



### Accessories for Planox ECO Standard and Planox ECO with movement sensor



#### End piece for turn lock fastener with D 25 mm

Price Category 11

982179.009	D 25, H 13
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#### Turn lock fastening

Price Category 11

982186.009	D 48, H 50	For Planox ECO with movement sensor
982429.009	D 44, H 41	For Planox ECO standard



#### Mounting brackets made of stainless steel (theft protection) for ceiling and wall mounting

Price Category 11

982180.000	L 115, B 13, H 62	For Planox ECO with movement sensor
982430.000	L 146, B 16, H 38	For Planox ECO standard



### Ceiling and wall luminaires | Series: Planox ECO

Type of Protection: **IP 66**  
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 Impact Protection: IK08



Side panels: plastic, grey polycarbonate. Diffuser: plastic (non-yellowing polycarbonate), opal. Converter encapsulated, integrated and permanently connected to the diffuser and side panel. Cable screw fittings for convenient wiring. Turn lock fastener on both sides for easy installation. Luminaire with intergrated 2-phase through wiring to connect multiple luminaires (protection class II). Ceiling mounting stainless steel brackets and triangular brackets for pendant mounting included in the scope of delivery. "Stand-alone" operation for model with movement sensor.

▽ Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected.

LED included.


Available colour: 9 = grey



Reference number	Dimensions	Lamp	Light colour	Luminaire flux	System power	dim-able	EEC
<b>Ceiling and wall luminaires with movement sensor ("Stand-alone" operation)</b>							
<b>Length L 750 mm</b>							
451182.009.19 .Q	L 750, B 67, H 71	LED	840	1900 lm	20 W	on/off	A+   A+
<b>Length L 1350 mm</b>							
451185.009.19 .Q	L 1350, B 67, H 71	LED	840	2800 lm	23 W	on/off	A+   A+
451183.009.19 .Q	L 1350, B 67, H 71	LED	840	4900 lm	42 W	on/off	A+   A+
<b>Length L 1650 mm</b>							
451186.009.19 .Q	L 1650, B 67, H 71	LED	840	3650 lm	36 W	on/off	A+   A+
451184.009.19 .Q	L 1650, B 67, H 71	LED	840	6550 lm	64 W	on/off	A+   A+

### Installation data for luminaires with movement sensor

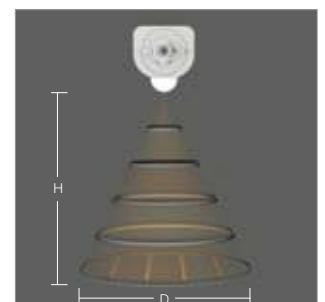
Through-wiring (2 pole) as standard - maximum number of luminaires per power level		
Reference number	System power	maximum luminaires
451182.009.19	20 W	62
451185.009.19	23 W	54
451183.009.19	42 W	29
451186.009.19	36 W	34
451184.009.19	64 W	19



### Details on movement sensor

Single luminaire with infrared movement sensor. Detection range 360°. Cover of movement sensor made of polyethylene, prismatic. Run-down time and intensity can be adjusted.

Technical data on movement sensor					
Tolerance 10 percent					
Mounting height (H)	3.0 m	4.0 m	5.0 m	6.0 m	8.0 m
Detection range (Diameter D)	7.40 m	11.0 m	13.0 m	13.8 m	14.4 m
Run-down time	10s - 20min adjustable				
Intensity	1-50lx adjustable				
Detection angle	120°				





## MORE LUMINAIRES OF THIS PRODUCT FAMILY:



⊕ Planox



⊕ Planox



⊕ Planox PRO



⊕ Planox Tube

## HIGHEST PRODUCT AND CONSULTING QUALITY

### ⊕ RELIABILITY

We are your reliable partner. From the first idea to the implementation and far beyond, we accompany your project. Personally, passionately and individually. Thanks to our excellent expertise, top product quality and services such as lighting design, economic efficiency analysis and commissioning, we meet the high demands of all parties involved in the planning process.

- ✓ availability of BIM files
- ✓ easy and quick installation
- ✓ quality and long warranty

### ⊕ WARRANTY

RZB grants 5 years warranty on LED luminaires and 2 years warranty on emergency luminaires!

The creation of high quality lighting solutions is our passion. Our products are developed and manufactured with the utmost care.

In addition to SMART TECHNOLOGY and EXCELLENT DESIGN, we are dedicated to manufacture luminaires of highest quality throughout the entire value chain through to After Sales Service.

Because of this, we confidently grant you a 5 years warranty on LED luminaires and 2 years warranty on emergency luminaires with effect of the date of invoice without prior registration of your project.

Warranty terms to be found under

[rzb.de/en/service/led-luminaire-warranty](http://rzb.de/en/service/led-luminaire-warranty)

RZB - FOR A TANGIBLE ADDED VALUE.



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