



LUMINAIRES FOR MOIST/HUMID ENVIRONMENTS



Luminaires for moist/humid environments

LET LUMEN TALK!

"Let the flowers do the talking" is quite a common saying, meaning to give roses or tulips or such like when special intentions are to be expressed. This now has been modified and transferred to the field of lighting technology. And for good reason! With a luminaire efficiency of up to 124 lumens per watt the PLANOX series indeed speaks for itself and is evidenced by the ability to now replace conventional, fluorescent moisture proof luminaires 1:1 by utilising the latest LED technology, saving at the same time up to 62% over conventional T5 or T8 luminaires.

Let us linger on for a moment with the florally characterized analogy and look at the colourful bouquet of surprising benefits the series PLANOX has in store for us. Not only an above-average light output compared to other luminaire manufacturers proposals, but also the topic of user-friendliness was brought to full bloom. Let us for example have a look at the suspended LED unit: It skillfully solves a repeatedly arising installation problem called: "Where is my third hand for holding the LED unit during wiring? Also, the quick fastening clips made of stainless steel should be mentioned in this context; no additional fixing holes in the housing are needed so the IP66 ingress protection is guaranteed.

Thanks to the stainless-steel retaining clips the diffuser can be attached to the housing simply and quickly. Plug and socketed with through wiring facility make installation quick and simple, we even supply the cable glands, so you don't need to worry about any additional components. When it comes to the diffuser it must be pointed out that this high-quality product is injection-moulded in PMMA or impact resistant Polycarbonate with an optimized prismatic prism array inside, has a satin exterior finish that guarantees a homogeneous distribution.

Furthermore, PLANOX delights with a replaceable and removable LED and control gear unit. The luminaire is a perfectly fit for commercial and industrial applications and is demonstrably reducing utility costs as well massively reducing maintenance costs so increasing the efficiency of car parks, production facilities, warehouses and storage buildings.

ADDITIONAL ADVANTAGES

- ▼ 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.
- Colour rendering Ra 80
- LED rated life 50,000 h (L80/B10)
- Replaceable LED unit
- Housing made of polycarbonate (PC)
- Mould cast diffusers as inner prisms, UV resistant and provide homogenous light distribution
- (+) Seal between diffuser and housing made of non-ageing PU (polyurethane) foam
- Diffusers held by stainless steel clips (standard)
- (+) Easy to install with stainless steel quick fastening clips
- Suspendable LED tray for comfortable installation
- Suitable for use in the food and drink industry
- Also available as an emergency luminaire in accordance with DIN EN 60598-2-22: Standard automatic self-test, wide luminaire spacing for escape route illumination



















Technology





Also available as an emergency luminaire in accordance with EN 60598-2-22

Standard automatic self-test

Wide luminaire spacing for escape route illumination





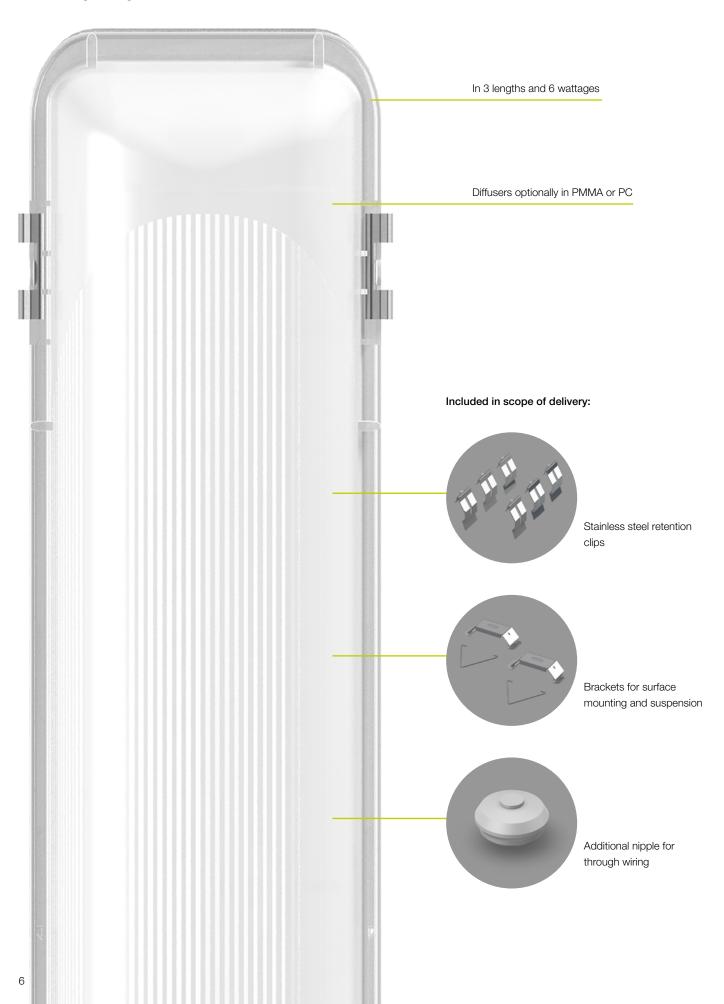
Housing and diffuser made of shockproof polycarbonate (PC)

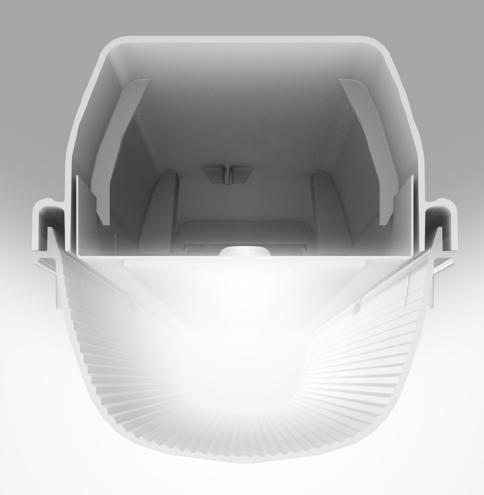


Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected



Everything at a glance





PHOTOMETRICS

- ⊕ Luminous efficiency up to 124 lm/W
- ① LED luminous flux up to 6,550 lm
- ① Colour temperature 4,000 K
- ① Colour rendering index Ra > 80
- Symmetrical light distribution
- ① LED rated life 50,000 h (L80, B10)
- ⊕ Good colour consistency within 3-steps MacAdam (3 SDCM)



PLANOX

Product overview



LED vs. conventional lamps

LED 23 / 28 W ≈

Comparison

2 x 18 W T26 (52 W Psys) 1 x 36 W T26 (43 W Psys) 2 x 24 W T16 (49 W Psys) 1 x 35 W T16 (38 W Psys)

LED 34 W ≈

2 x 36 W T26 (86 W Psys) 1 x 58 W T26 (67 W Psys) 1 x 49 W T16 (53 W Psys)

LED 41 / 48 W ≈

2 x 36 W T26 (86 W Psys) 2 x 28 W T16 (61 W Psys)

LED 54 W ≈

2 x 58 W T26 (134 W Psys) 1 x 80 W T16 (86 W Psys)

Ceiling and wall luminaires | Planox

Type of Protection: IP 66

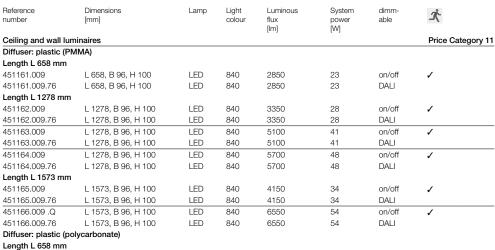
Protection Class: I

Impact Protection: IK03 (PMMA), IK08 (polycarbonate)

Base: plastic (polycarbonate). White painted, interior fastening element made of steel plate. Diffuser: plastic (PMMA or PC) prismatic inside. Diffuser fastening: stainless steel clips.

 $\ensuremath{\mathbb{V}}$ 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.

Available colour: 9 = grey

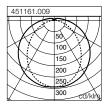




451105.005	L 1373, D 90, 11 100	LLD	040	4130	04	011/011	•	
451165.009.76	L 1573, B 96, H 100	LED	840	4150	34	DALI		
451166.009 .Q	L 1573, B 96, H 100	LED	840	6550	54	on/off	1	
451166.009.76	L 1573, B 96, H 100	LED	840	6550	54	DALI		
Diffuser: plastic (poly	/carbonate)							
Length L 658 mm								
451161.009.1	L 658, B 96, H 100	LED	840	2750	23	on/off	1	
451161.009.1.76	L 658, B 96, H 100	LED	840	2750	23	DALI		
Length L 1278 mm								
451162.009.1	L 1278, B 96, H 100	LED	840	3250	28	on/off	1	
451162.009.1.76	L 1278, B 96, H 100	LED	840	3250	28	DALI		
451163.009.1	L 1278, B 96, H 100	LED	840	4850	41	on/off	1	
451163.009.1.76	L 1278, B 96, H 100	LED	840	4850	41	DALI		
451164.009.1	L 1278, B 96, H 100	LED	840	5400	48	on/off	1	
451164.009.1.76	L 1278, B 96, H 100	LED	840	5400	48	DALI		
Length L 1573 mm								
451165.009.1	L 1573, B 96, H 100	LED	840	4050	34	on/off	1	
451165.009.1.76	L 1573, B 96, H 100	LED	840	4050	34	DALI		
451166.009.1	L 1573, B 96, H 100	LED	840	6350	54	on/off	1	
451166.009.1.76	L 1573, B 96, H 100	LED	840	6350	54	DALI		
							'	

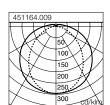
451161.009						
Floor 12 x 2,5 x 3m (0,2m)						
100 lx 150 lx 200 lx						
3	4	5				
Room 6 x 4 x 3 m (0,75 m)						
200 lx	500 lx					
4 6 9						

451166.009						
Floor 12 x 2,5 x 3m (0,2m)						
100 lx	150 lx	200 lx				
2	2	3				
Room 6 x 4 x 3 m (0,75 m)						
200 lx	300 lx	500 lx				
2	3	4				



45116	6.009		
X		50	
		150	1
X		250	
$V \sim$		300	-cd/klm

451164.009						
Floor 12 x 2,5 x 3m (0,2m)						
100 lx	150 lx	200 lx				
2	2	3				
Room 6 x 4 x 3 m (0,75 m)						
200 lx	300 lx	500 lx				
200 IX						







Product overview



Ceiling and wall luminaires | Planox

Type of Protection: **IP 66** Protection Class: I

Impact Protection: IK03 (PMMA), IK08 (Polycarbonate)

For escape route illumination

Base: plastic (polycarbonate). White painted, interior fastening element made of steel plate. Refractor: plastic (PMMA or PC), transparent, prismatic inside.

Diffuser fastening: stainless steel clips.

 $\ensuremath{\mathbb{V}}$ 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.

Available colour: 9 = grey

Self-contained safety luminaires

Voltage type: AC

Automatic self test in all standard versions.

Dimensions

[mm]

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained

Light

colour

Luminaire flux

[lm]

Mains/Emergency

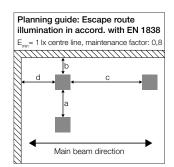
power [W]

power mode (DS).

Reference number



Self-contained safe	A. I. main aine					[i i]	Price Category 23
Refractor: plastic (F	<u> </u>						Frice Category 23
Length L 1278 mm	riviiviAj						
672202.009	L 1278, B 96, H 100	840	3300 / 600	31	NiMh	3	Autotest
672202.009.04	L 1278, B 96, H 100	840	3300 / 600	31	NiMh	3	MultiDigit
672202.009.04	L 1278, B 96, H 100	840	3300 / 600	31	NiMh	3	DALI-Sibe
672203.009	L 1278, B 96, H 100	840	5000 / 600	44	NiMh	3	Autotest
672203.009	L 1278, B 96, H 100	840	5000 / 600	44	NiMh	3	MultiDigit
672203.009.04	L 1278, B 96, H 100	840	5000 / 600	44	NiMh	3	DALI-Sibe
672203.009.07			5600 / 590	51	NiMh		Autotest
	L 1278, B 96, H 100	840		51 51	NiMh	3	
672204.009.04	L 1278, B 96, H 100	840	5600 / 590			3	MultiDigit
672204.009.07	L 1278, B 96, H 100	840	5600 / 590	51	NiMh	3	DALI-Sibe
Length L 1573 mm	1 4570 D 00 11400	0.40	4400 / 550	07	N CA AL-	0	A. 4-44
672205.009	L 1573, B 96, H 100	840	4100 / 550	37	NiMh	3	Autotest
672205.009.04	L 1573, B 96, H 100	840	4100 / 550	37	NiMh	3	MultiDigit
672205.009.07	L 1573, B 96, H 100	840	4100 / 550	37	NiMh	3	DALI-Sibe
672206.009	L 1573, B 96, H 100	840	6400 / 540	57	NiMh	3	Autotest
672206.009.04	L 1573, B 96, H 100	840	6400 / 540	57	NiMh	3	MultiDigit
672206.009.07	L 1573, B 96, H 100	840	6400 / 540	57	NiMh	3	DALI-Sibe
Refractor: plastic (p	oolycarbonate)						
Length L 1278 mm							
672202.009.1	L 1278, B 96, H 100	840	3100 / 600	31	NiMh	3	Autotest
672202.009.1.04	L 1278, B 96, H 100	840	3100 / 600	31	NiMh	3	MultiDigit
672202.009.1.07	L 1278, B 96, H 100	840	3100 / 600	31	NiMh	3	DALI-Sibe
672203.009.1	L 1278, B 96, H 100	840	4700 / 550	44	NiMh	3	Autotest
672203.009.1.04	L 1278, B 96, H 100	840	4700 / 550	44	NiMh	3	MultiDigit
672203.009.1.07	L 1278, B 96, H 100	840	4700 / 550	44	NiMh	3	DALI-Sibe
672204.009.1	L 1278, B 96, H 100	840	5300 / 550	51	NiMh	3	Autotest
672204.009.1.04	L 1278, B 96, H 100	840	5300 / 550	51	NiMh	3	MultiDigit
672204.009.1.07	L 1278, B 96, H 100	840	5300 / 550	51	NiMh	3	DALI-Sibe
Length L 1573 mm							
672205.009.1	L 1573, B 96, H 100	840	3950 / 530	37	NiMh	3	Autotest
672205.009.1.04	L 1573, B 96, H 100	840	3950 / 530	37	NiMh	3	MultiDigit
672205.009.1.07	L 1573, B 96, H 100	840	3950 / 530	37	NiMh	3	DALI-Sibe
672206.009.1	L 1573, B 96, H 100	840	6200 / 520	57	NiMh	3	Autotest
672206.009.1.04	L 1573, B 96, H 100	840	6200 / 520	57	NiMh	3	MultiDigit
672206.009.1.07	L 1573, B 96, H 100	840	6200 / 520	57	NiMh	3	DALI-Sibe



672202.009							
Luminous flux emergency: 600 lm Following values are indicated in m							
h	а	b	С	d			
2,5	9,6	4,0	12,7	5,1			
3,0	10,5	4,2	13,6	5,2			
3,5	11,3	4,5	14,4	5,3			
4,0	11,8	4,7	14,5	5,6			

672202.009.1							
Luminous flux emergency: 600 lm Following values are indicated in m							
h	а	b	С	d			
2,5	9,7	4,0	12,7	5,0			
3,0	10,6	4,2	13,6	5,1			
3,5	11,3	4,5	14,3	5,3			
4,0	11,9	4,7	14,5	5,6			

67220	672205.009							
Luminous flux emergency: 550 lm Following values are indicated in m								
h	а	b	С	d				
2,5	10,2	4,1	12,3	4,9				
3,0	11,0	4,4	13,2	5,2				
3,5	11,8	4,7	13,9	5,4				
4,0	12,4	4,9	14,5	5,6				

672205.009.1								
Luminous flux emergency: 530 lm Following values are indicated in m								
h	а	b	С	d				
2,5	9,7	3,9	12,3	4,9				
3,0	10,5	4,2	13,2	5,2				
3,5	11,2	4,5	13,8	5,4				
4,0	11,8	4,6	14,4	5,5				

Monitoring



Product overview

Ceiling and wall luminaires | Planox

Type of Protection: **IP 66** Protection Class: I

Impact Protection: IK03 (PMMA), IK08 (Polycarbonate)

For escape route illumination

Base: plastic (polycarbonate). White painted, interior fastening element made of steel plate. Refractor: plastic (PMMA or PC), transparent, prismatic inside.

Diffuser fastening: stainless steel clips.

▼ 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.

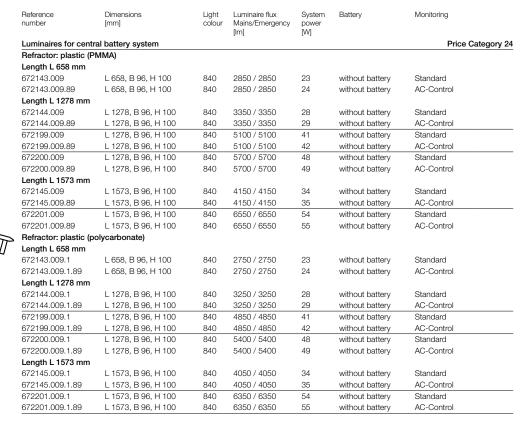
Available colour: 9 = grey

Luminaires for central battery system

Voltage type: AC/DC

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power

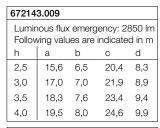
mode (DS).











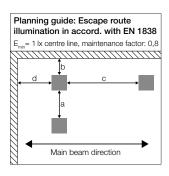
672144.009.1						
Luminous flux emergency: 3250 lm Following values are indicated in m						
h	а	b	С	d		
2,5	15,2	6,4	21,6	8,8		
3,0	16,7	6,9	23,3	9,4		
3,5	18,0	7,5	24,8	10,0		
4,0	19,2	7,9	26,2	10,5		

672143.009.1							
Luminous flux emergency: 2750 lm Following values are indicated in m							
h	а	b	С	d			
2,5	14,9	6,2	20,4	8,3			
3,0	16,3	6,7	22,0	8,9			
3,5	17,5	7,2	23,4	9,4			
4,0	18,6	7,7	24,6	9,9			

672145.009							
Luminous flux emergency: 4150 lm Following values are indicated in m							
h	а	b	С	d			
2,5	16,7	7,0	23,0	9,3			
3,0	18,3	7,7	24,7	10,0			
3,5	19,8	8,3	26,3	10,6			
4,0	21,2	8,8	27,7	11,2			

672144.009							
Luminous flux emergency: 3350 lm Following values are indicated in m							
h	а	b	С	d			
2,5	15,8	6,6	21,4	8,7			
3,0	17,3	7,2	23,1	9,4			
3,5	18,7	7,8	24,6	10,0			
4,0	19,9	8,2	25,9	10,5			

672145.009.1							
Luminous flux emergency: 4050 lm Following values are indicated in m							
h	а	b	С	d			
2,5	18,2	7,6	26,7	10,9			
3,0	19,9	8,4	28,8	11,7			
3,5	21,6	9,0	30,7	12,5			
4,0	23,1	9,6	32,4	13,1			





FURTHER LUMINAIRES, MATCHING THIS SERIES:







Planox ECO

Planox PRO

Planox Tube

HIGHEST PRODUCT AND CONSULTING OUALITY

RELIABILITY

We are your reliable partner. From the first idea to the implementation and far beyond, we accompany your project. Personal, passionate and individual. 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
- \checkmark quality and long warranty

WARRANTY

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

RZB - FOR A TANGIBLE ADDED VALUE.



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