



next generation led

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# WEATHERPROOF LUMINAIRE



## Properties

- Lifespan L80 %: > 50.000 hours
- IP class : 68
- Extremely robust : IK10
- Lumen efficiency : 120 Lm/W
- Coextruded polycarbonate tube with clear and opal sections, 2mm thick
- Neoprene gasket
- End caps in stainless steel
- 3-pole Wieland plug included
- Electronic control gear BAG
- Stainless steel fast fixing bracket kit for ceiling or suspended mounting included
- Warranty : 5 years

IP 68      IK 10      Plug & Play      120 Lm/W

## Specifications

ROLLED	60 CM	120 CM	150 CM
Power	18 W	37 W	46 W
Luminous flux	2200 Lm	4400 Lm	5500 Lm
Input voltage	220-240 V / 50 - 60 Hz		
IP Index	IP 668		
Color rendering index	Ra >80		
Color temperature	4000 K		
Temperature in use	- 20°C ~ +35°C		
Lifespan L80%	50.000 h		
IK rate	850°C IK10		
Dimension	644x100 mm	1244X100 mm	1544X100 mm

## Application

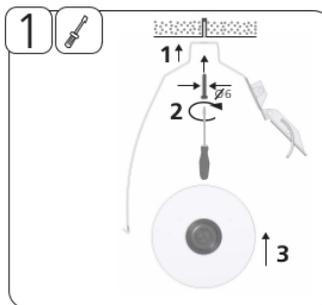
Unbreakable weatherproof IP68 luminaire for refrigeration rooms, food industry, pools, bridges,...

Updated: August 2017



# Installation guide

	L	E	D min.	D max.	H
Roll LED/M 1x0.6 LED2000lm ET	644	740	500	550	100
Roll LED/M 1x1.2 LED4000lm ET	1244	1340	600	1150	100
Roll LED/M 1x1.5 LED5000lm ET	1544	1640	750	1450	100

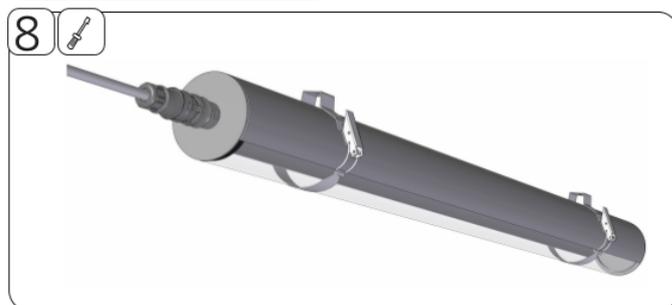
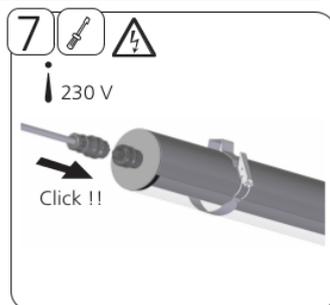
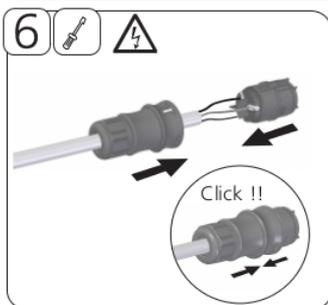
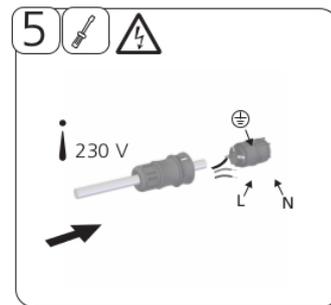


3

① Fein- und mehrdrähtige Leiter  
 ② Fine and multi-wire conductor  
 ③ Conducteurs à fils fins et multifilaires  
 ④ Conduttori a più fili intrecciati  
 ⑤ Conductores de hilo fino o multihilo  
 ⑥ Fijn- en meeraderige geleiders

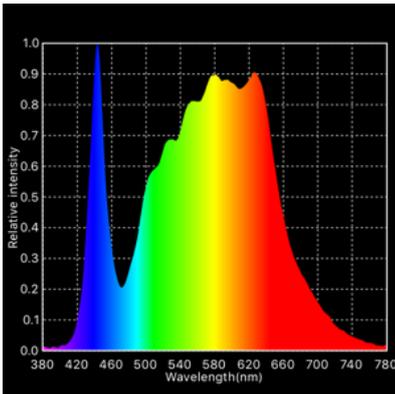
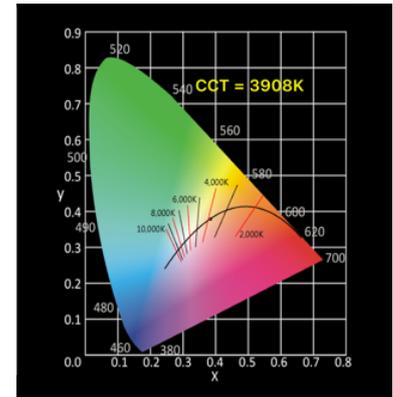
① Eindrängige Leiter  
 ② Single-core conductor  
 ③ Conducteurs à un fil  
 ④ Conduttori monofilo  
 ⑤ Conductores rígidos  
 ⑥ Geleiders met één draad

① Aderendhülse nach DIN 46228 (L=12mm) verwenden!  
 ② Use wire-end sleeve in compliance with DIN 46228 (L=12mm)!  
 ③ Utilisez un embout de fil conforme à la norme DIN 46228 (L=12mm)!  
 ④ Utilizzare manicotto terminale conforme a DIN 46228 (L=12mm)!  
 ⑤ Utilizar la virola de cable según DIN 46228 (L=12mm)!  
 ⑥ Aderendhuls conform DIN 46228 (L=12mm) gebruiken!



## CIE 1931

The CIE color space, developed in 1931, is still used to define colors, and as a reference for other color spaces. The figure is a two-dimensional display of colors of the same intensity (brightness), which is based on observations of color measurements by people.

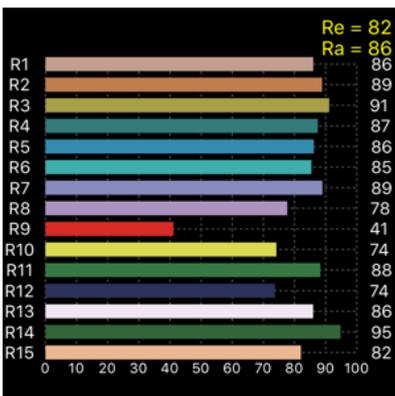
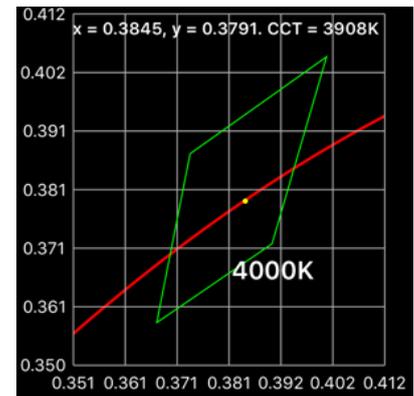


## SPECTRUM

Isaac Newton used the Latin word spectrum to define the color series which arose when he dropped a bundle of sunlight through a glass prism. The color spectrum consists of the colors of the rainbow with the color sequence red-orange-yellow-green-blue-indigo-violet, which corresponds to bearish wave length (increasing frequency) of the light waves.

## C78 377

ANSI C 78.377 is now the standard for color quality, as determined by the American National Standards Institute. ANSI recommends lamp manufacturers to stay within a 4-step ellipse. This means that manufacturers with a particular focus on the CIE diagram have a broad range of observable differences.



## CRI HISTOGRAM

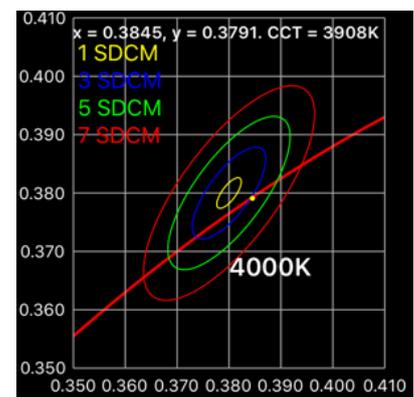
The color reproduction of a light source indicates whether the color of an object can be displayed true to nature. The graph shows whether we can accurately determine color, depending on the color rendering properties of the light source.

- Ra = average of R1 to R8
- Re = average of R1 to R15
- R9 = saturated red. Should be as high as possible.

## SDCM

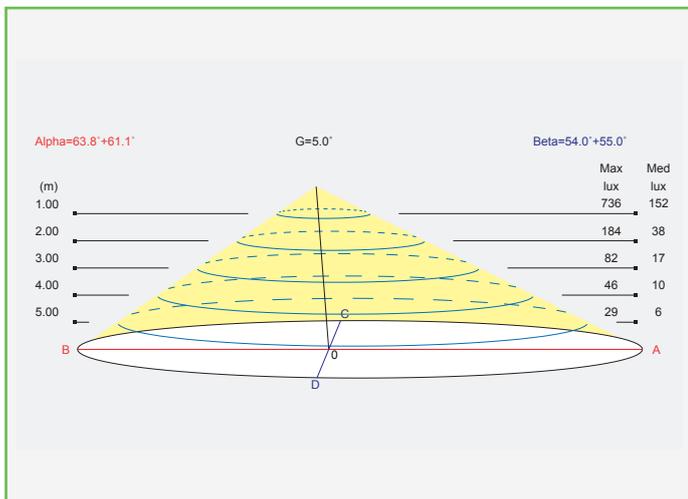
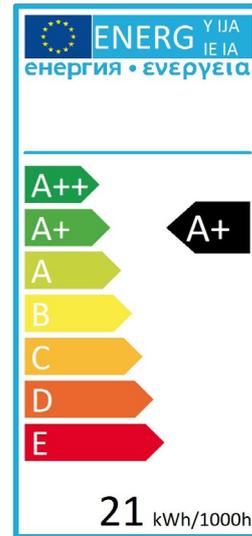
SDCM is an acronym which stands for Standard Deviation Colour Matching. SDCM has the same meaning as a "MacAdam ellipse". A 1-step MacAdam ellipse defines a zone in the CIE 1931 2 deg (xy) colour space within which the human eye cannot discern colour difference. Most LEDs are binned at the 4-7 step level, in other words you certainly can see colour differences in LEDs that are ostensibly the same colour.

SDCM	CCT @ 3000K	$\Delta UV$
1x	±30K	±0.0007
2x	±60K	±0.0010
4x	±100K	±0.0020
7-8x	±175K	±0.0060



## ENERGY LABEL

Electrical appliances carry an energy label. This label prints the so-called energy efficiency score in classes. These classes range from 'very energy efficient' (A++) to 'very waste of energy' (E). A more expensive new device may eventually turn out to be cheaper if the energy score is good. IPEA is the new system for luminaire energy efficiency assessment.

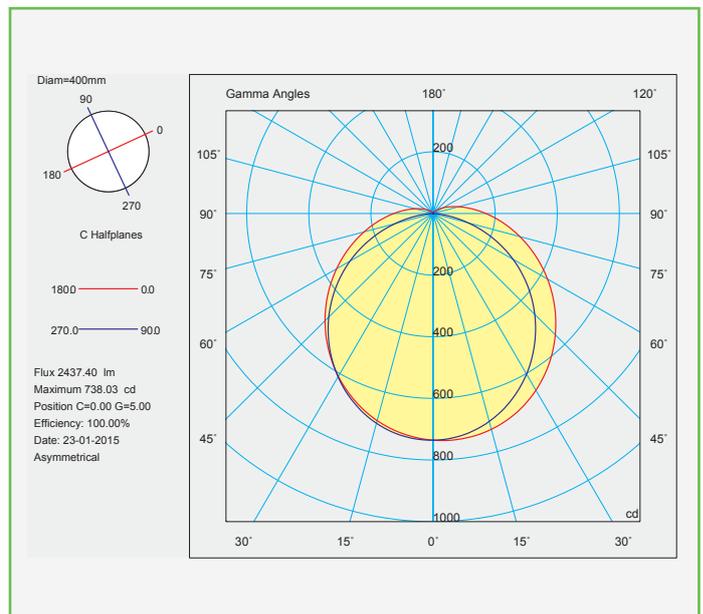


## BEAM

The Illuminance Cone Diagram indicates the maximum illuminance at different distances from the fixture.

## POLAR DIAGRAM

The polar luminous intensity graph illustrates the distribution of luminous intensity, in candelas, for the transverse (solid line) and axial (dashed line) planes of the luminaire. The shown curve provides a visual guide to the type of distribution expected from the luminaire e.g. wide, narrow, direct, indirect... in addition to intensity.



## WEATHERPROOF LUMINAIRES

REFERENCE	WATT	LUMEN	COLOR	COVER	IK
800-0501	18 W	2200 Lm	4000 K	PC	IK10
800-0502	37 W	4400 Lm	4000 K	PC	IK10
800-0503	46 W	5500 Lm	4000 K	PC	IK10

Chemical agents	Polyester	Polycarbonaat	Acrylic	Aluminium
Acetic Acid 10%	●	●	●	●
Acetone	○	×	×	●
Alcoholic beverages	●	●	●	●
Aluminium sulphate	●	●	●	●
Ammonia 5%	○	×	●	●
Aniline	○	×	○	●
Arsenic acid 20%	○	●	●	●
Benzene	×	×	×	●
Bencylic alcohol	×	×	×	○
Benczyl	×	×	×	●
Bromine	×	×	×	×
Calcium chloride	●	●	●	●
Calcium nitrate	●	●	●	●
Carbon tetrachloride	×	×	×	●
Carbonic acid	●	×	×	●
Caustic potash	×	×	●	×
Cement	●	●	●	●
Chlorhydric acid 15%	○	●	●	×
Chlorine vapours/liquid	×	×	×	×
Chloroform	×	×	×	●
Chromic acid	×	○	○	×
Citric acid 20%	●	●	●	●
Copper sulphate	●	●	●	×
Diesel	●	○	●	●
Ethyl alcohol	●	●	●	●
Ethyl chloride	×	×	×	○
Ethyl ether	●	×	×	●
Food oils and fats	●	×	●	●
Formic acid 10%	○	●	●	×
Glycerine	●	●	●	●
Hexane	○	●	●	●
Iodine	●	×	×	○
Iron chloride	●	●	●	○
Isopropylic alcohol	●	○	○	●
Lubricating oil	●	●	●	●
Magnesium sulphate	●	●	●	●
Methanol	●	×	×	●
Mineral oils	●	●	●	●
Nitric acid 20%	×	○	○	×
Oxygen	●	●	●	●
Ozone	●	●	●	●
Perchloric acid 10%	×	●	●	×
Petrol	●	×	●	●
Phenol	○	×	×	●
Pothassium bromide	●	●	●	○
Pothassium nitrate	●	●	●	●
Pothassium permanganate	●	●	●	●
Sea climate	●	●	●	○
Silicon oils	●	●	○	●
Soda bleach 15%	●	×	●	○
Sodium chloride	●	●	●	○
Sodium hydroxide 5%	●	×	●	×
Sodium sulphate	●	●	●	●
Sugar	●	●	●	●
Sulphur	●	●	●	●
Sulphuric acid 30%	×	●	●	×
Toluene	×	×	×	●
Trichloro ethylene	×	×	×	●
Zinc sulphate	●	●	●	○

●	resitant
○	Relatively resitant
×	Non-resitant