



next generation led

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Ammonia resistant LED fixture



Properties

- Lifespan L80 B10 at Ta. max. > 50.000 hours
- Glass reinforced polyester, compression mould base (GRP), double cable entry (same side) optional
- Clear PS (polystyrene) diffuser
- Lumen efficiency: 133 lm/w
- 2 part stainless steel clips
- Warranty : 5 years

IP67

T5 glass tube inside

IK02

Specifications

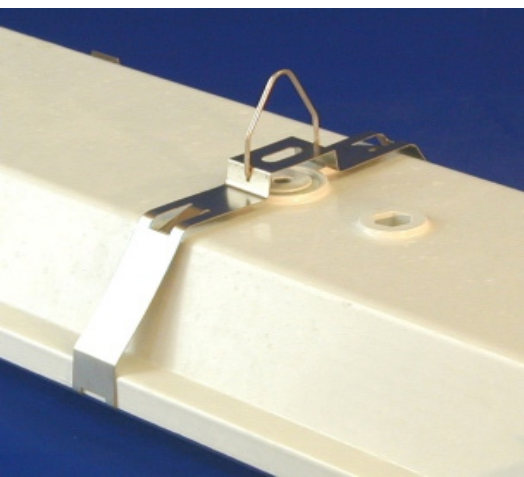
AR LED FIX	120CM SIMPLE		120CM DOUBLE	
Power	20W	30W	39W	58W
Luminous flux	2500lm	3800lm	5070lm	7650lm
Input voltage	220-240 V / 50 - 60 Hz			
Color rendering index	Ra >83 (Ra>92 optional)			
Color temperature	3500K - 4000K - 5000K			
Temperature in use	-20°C ~ +40°C			
Dimension	1312X102X105 mm		1312x172x105 mm	

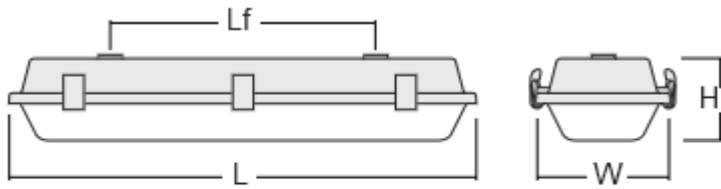
AR LED FIX	150CM SIMPLE	
Power	25W	35W
Luminous flux	3090lm	4480lm
Input voltage	220-240 V / 50 - 60 Hz	
Color rendering index	Ra >83 (Ra>92 optional)	
Color temperature	3500K - 4000K - 5000K	
Temperature in use	-20°C ~ +40°C	
Dimension	1612X102X105 mm	

Application

Special for the farming industry, providing high protection against aggressive ammonia vapors.

Updated: April 2018



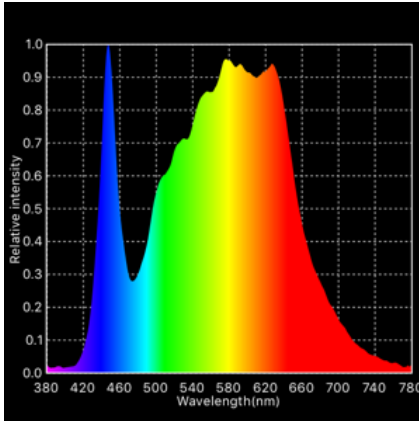
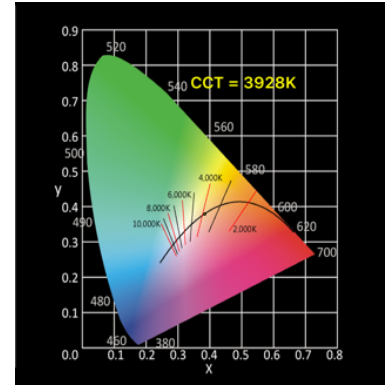


L	W*	H	Lf	Clips	Kg
1312	102	105	800	8	2.5
1612	102	105	1100	10	3.5
1312	172	105	800	8	3.7



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.

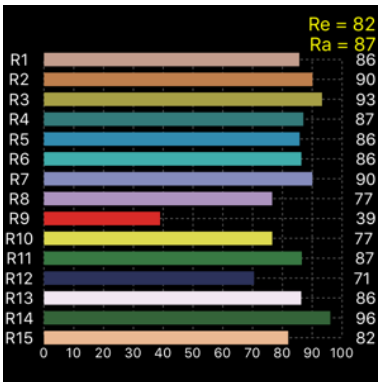
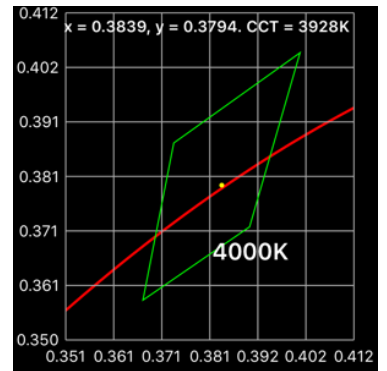


SPECTRUM

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

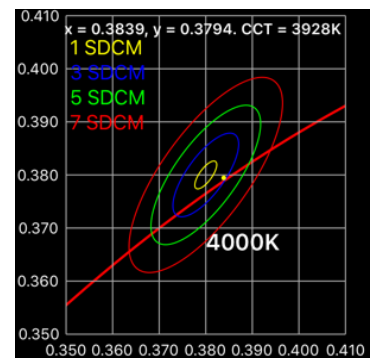
Re = average of R1 to R15

R9 = saturated red. Should be as high as possible.

SDCM

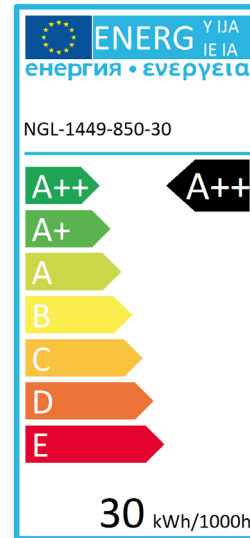
SDCM is an acronym which stands for Standard Deviation Colour Matching. SDCM has the same meaning as a "MacAdam ellipse". A 1-step MacAdam ellipse defines a zone in the CIE 1931 2 deg (xy) colour space within which the human eye cannot discern colour difference. Most LEDs are binned at the 4-7 step level,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

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

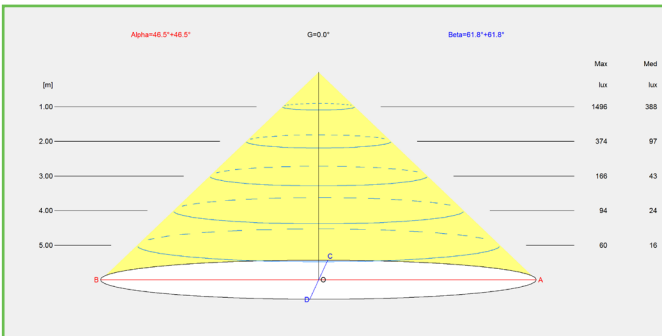


ENERGY LABEL

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.



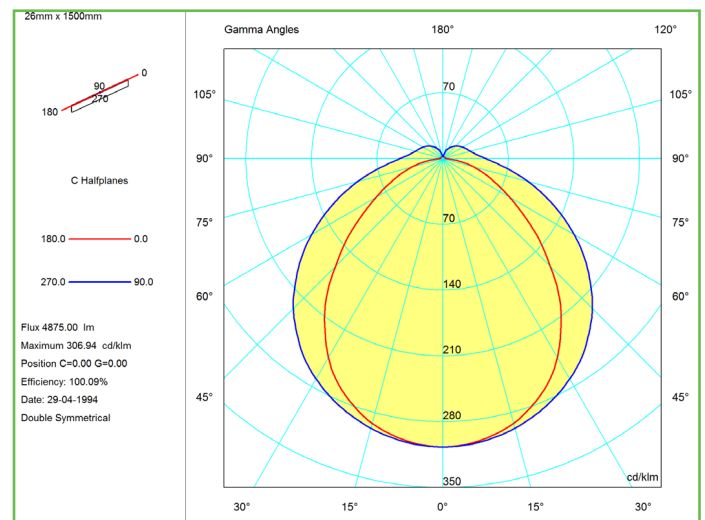
BEAM



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.



AMMONIA RESISTANT LED FIXTURE

REFERENCE	WATT	LUMEN	COLOR	COVER
802-0010	20	2600	3500K	Clear PS
802-0011	20	2600	4000K	Clear PS
802-0012	20	2600	5000K	Clear PS
802-0013	30	3900	3500K	Clear PS
802-0014	30	3900	4000K	Clear PS
802-0015	30	3900	5000K	Clear PS
802-0016	58	7540	3500K	Clear PS
802-0017	58	7540	4000K	Clear PS
802-0018	58	7540	5000K	Clear PS
802-0019	39	5070	3500K	Clear PS
802-0020	39	5070	4000K	Clear PS
802-0021	39	5070	5000K	Clear PS
802-0022	35	4550	3500K	Clear PS
802-0023	35	4550	4000K	Clear PS
802-0024	35	4550	5000K	Clear PS
802-0025	25	3250	3500K	Clear PS
802-0026	25	3250	4000K	Clear PS
802-0027	25	3250	5000K	Clear PS