



next generation led

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## LED Ground Spot



### Properties

- Lifespan L70 %: > 50.000hr
- Immediate start regardless of temperature or humidity
- No mercury or toxic gasses
- Unique and innovative induction power supply
- 316L stainless steel fitting
- CREE chip
- Inductive plug driver located in the base of the fitting which transmits electricity wirelessly
- Induction allows the base to be hard wired without fear of electrocution
- Warranty: 5 y

IP 67

Extra safe

Induction  
power  
supply

### Specifications

LED Ground spot	3W	9W	18W	18W ASY
Input voltage			AC180 - 380V	
Color rendering index			RA > 80	
Color temperature			3000K, 4000K, 6000K	
Temperature in use			- 20°C ~ 50°C	
Beam angle			25°-40°-60°	
Dimension (DxH)	Φ70x104mm	Φ200x133mm	Φ227*133mm	Φ236*216.5mm
Weight	0,5kg	3kg	4kg	4kg

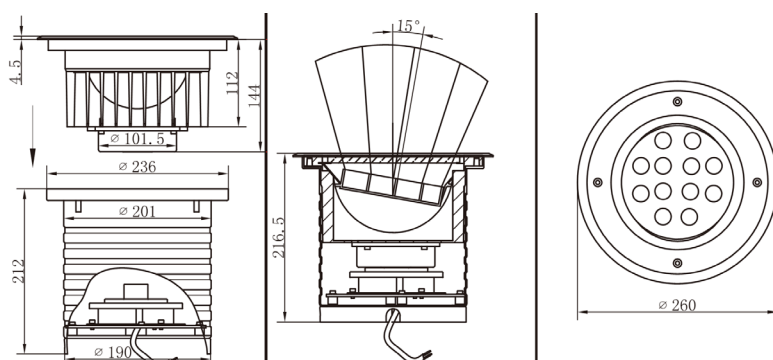
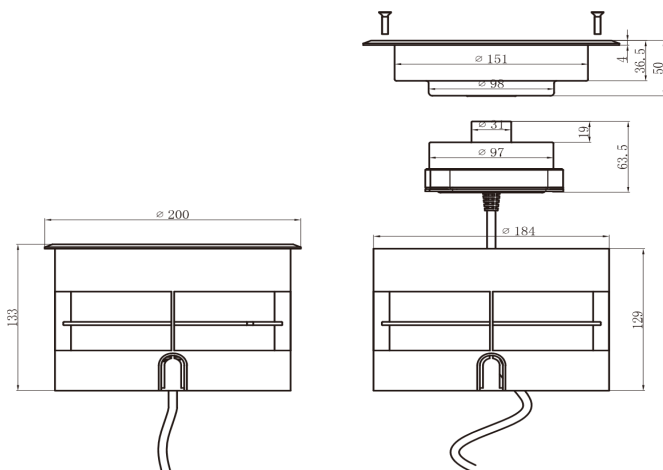
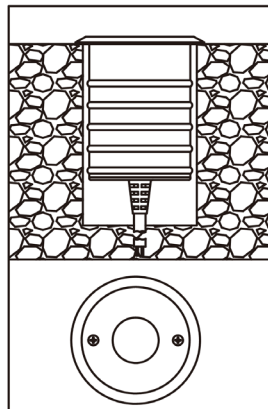
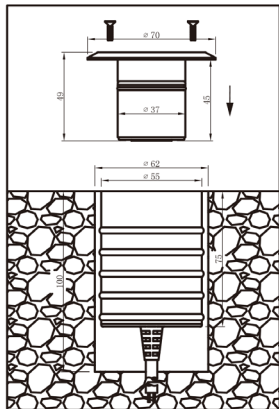
### Application

Hotels, leisure, retail, façade uplight.

Updated: April 2017

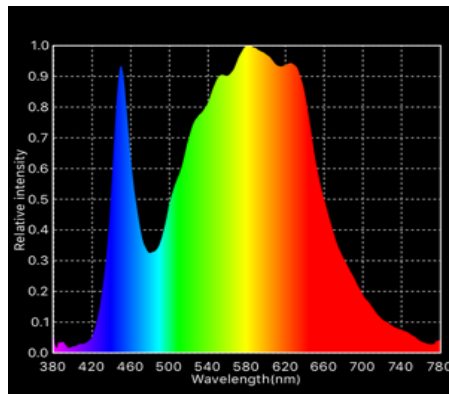
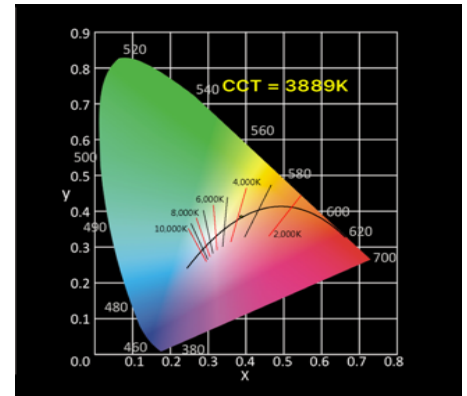


# Specifications



## 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.

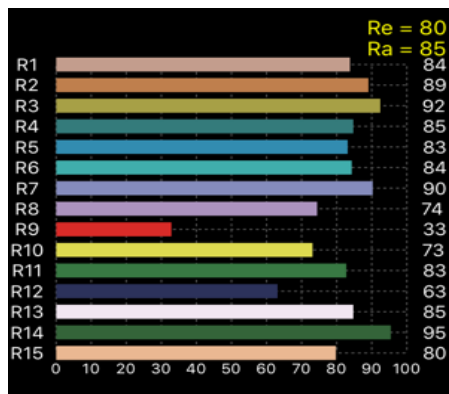
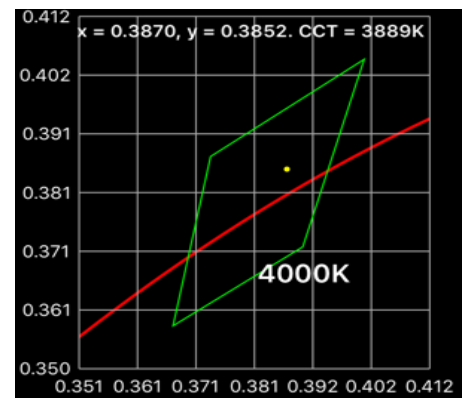


## SPECTRUM

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

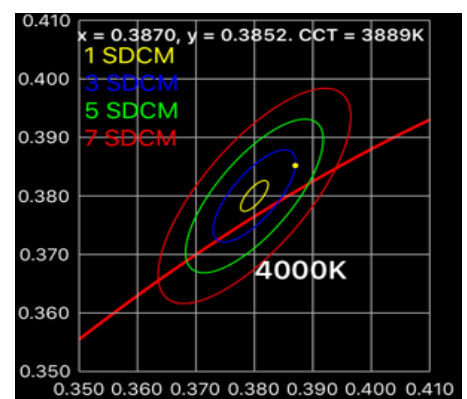
Re = average of R1 to R15

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	$\Delta U_V$
1x	±30K	±0.0007
2x	±60K	±0.0010
4x	±100K	±0.0020
7-8x	±175K	±0.0060



## Ground Spot

REFERENCE	WATT	LUMEN	COLOR	BEAM ANGLE	DIMMABLE
290-0100	3W	90-95lm	3000K	25°	NO
290-0101	3W	90-95lm	3000K	40°	NO
290-0102	3W	90-95lm	3000K	60°	NO
290-0103	3W	90-95lm	4000K	25°	NO
290-0104	3W	90-95lm	4000K	40°	NO
290-0105	3W	90-95lm	4000K	60°	NO
290-0106	3W	90-95lm	6000K	25°	NO
290-0107	3W	90-95lm	6000K	40°	NO
290-0108	3W	90-95lm	6000K	60°	NO
290-0109	9W	675-720lm	3000K	25°	NO
290-0110	9W	675-720lm	3000K	40°	NO
290-0111	9W	675-720lm	3000K	60°	NO
290-0112	9W	675-720lm	4000K	25°	NO
290-0113	9W	675-720lm	4000K	40°	NO
290-0114	9W	675-720lm	4000K	60°	NO
290-0115	9W	675-720lm	6000K	25°	NO
290-0116	9W	675-720lm	6000K	40°	NO
290-0117	9W	675-720lm	6000K	60°	NO
290-0118	18W	1350-1450lm	3000K	25°	NO
290-0119	18W	1350-1450lm	3000K	40°	NO
290-0120	18W	1350-1450lm	3000K	60°	NO
290-0121	18W	1350-1450lm	4000K	25°	NO
290-0122	18W	1350-1450lm	4000K	40°	NO
290-0123	18W	1350-1450lm	4000K	60°	NO
290-0124	18W	1350-1450lm	6000K	25°	NO
290-0125	18W	1350-1450lm	6000K	40°	NO
290-0126	18W	1350-1450lm	6000K	60°	NO
290-0127	18W	1350-1440lm	3000K	ASYMMETRIC	NO
290-0128	18W	1350-1440lm	3000K	ASYMMETRIC	NO
290-0129	18W	1350-1440lm	3000K	ASYMMETRIC	NO
290-0130	18W	1350-1440lm	4000K	ASYMMETRIC	NO
290-0131	18W	1350-1440lm	4000K	ASYMMETRIC	NO
290-0132	18W	1350-1440lm	4000K	ASYMMETRIC	NO
290-0133	18W	1350-1440lm	6000K	ASYMMETRIC	NO
290-0134	18W	1350-1440lm	6000K	ASYMMETRIC	NO
290-0135	18W	1350-1440lm	6000K	ASYMMETRIC	NO

