



next generation led

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LED IP68 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 3535 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 68

Extra safe

Induction power supply

Specifications

| LED Ground spot | 3W | 9W | 18W |
|-----------------------|--------------------------|-------------|------------|
| Input voltage | DC24V | | |
| Color rendering index | RA > 80 | | |
| Color temperature | 3000K, 4000K, 6000K, RGB | | |
| Temperature in use | - 20°C ~ 50°C | | |
| Beam angle | 25° 40° 60° | 18° 28° 38° | |
| Dimension (DxH) | Φ70x104mm | Φ132x122mm | Φ167*142mm |

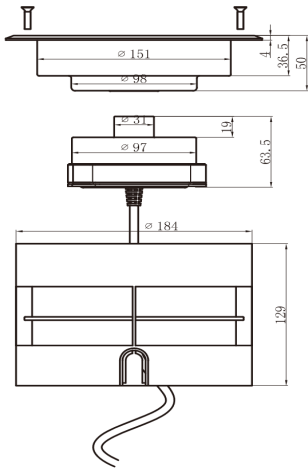
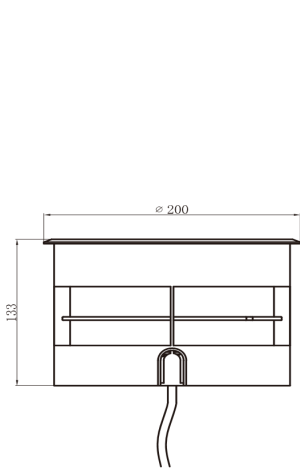
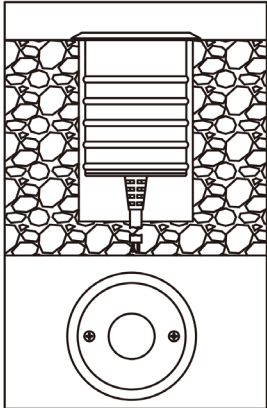
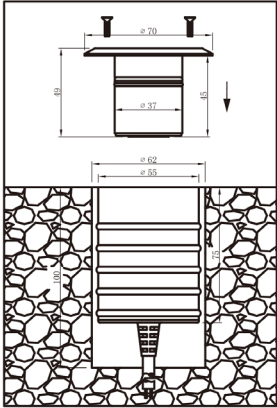
Application

Hotels, leisure, retail, façade uplight.

Updated: April 2018

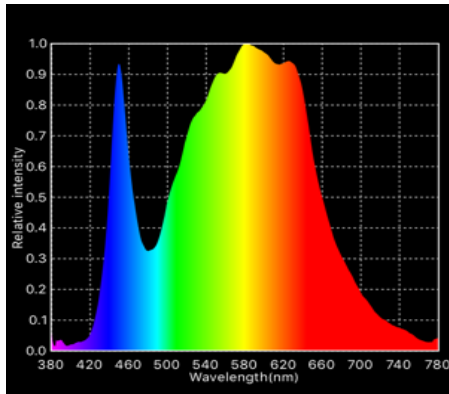
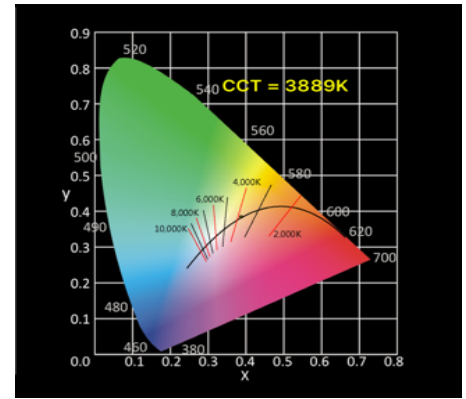


Specifications



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.

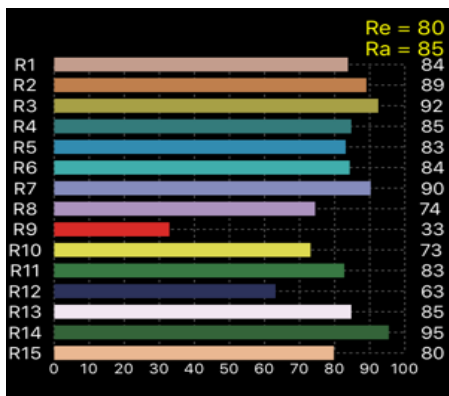
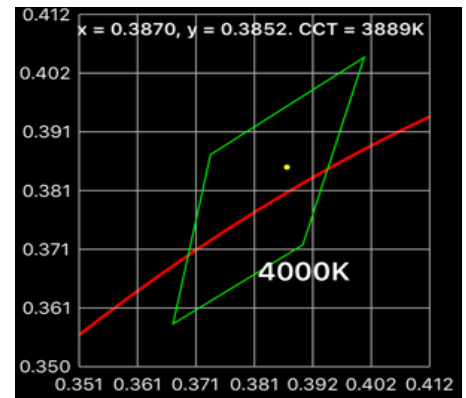


SPECTRUM

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

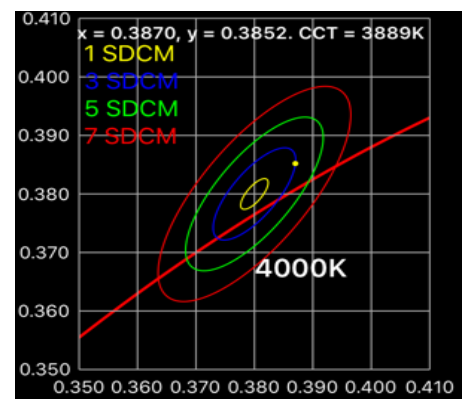
Re = average of R1 to R15

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

SDCM

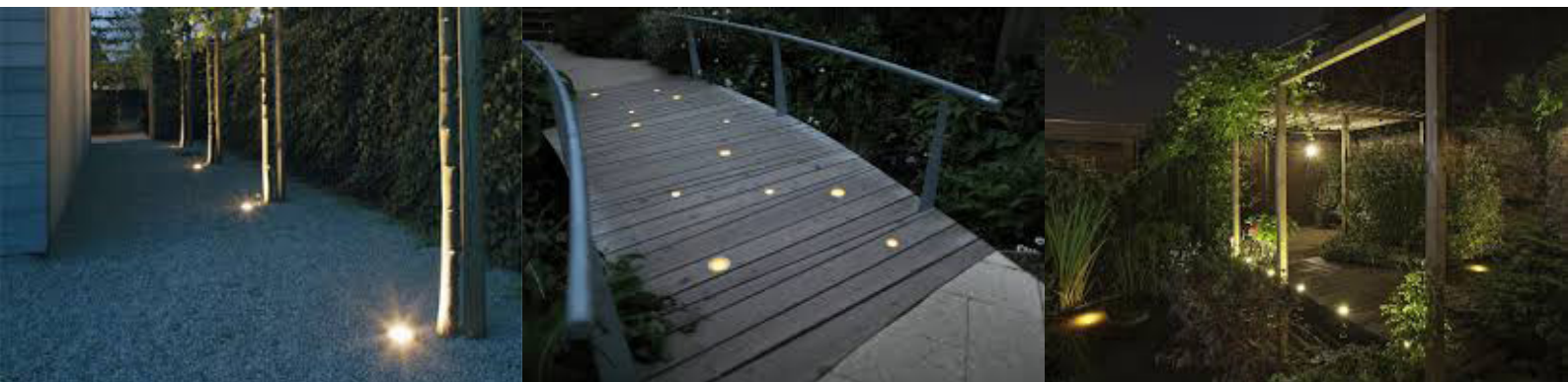
SDCM is an acronym which stands for Standard Deviation Colour Matching. SDCM has the same meaning as a "MacAdam ellipse". A 1-step MacAdam ellipse defines a zone in the CIE 1931 2 deg (xy) colour space within which the human eye cannot discern colour difference. Most LEDs are binned at the 4-7 step level,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

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



Ground Spot IP68

| REFERENCE | WATT | LUMEN | COLOR | BEAM ANGLE | DIMMABLE |
|-----------|------|-------------|-------|------------|----------|
| 290-0157 | 3W | 90-95lm | 3000K | 25° | NO |
| 290-0158 | 3W | 90-95lm | 4000K | 25° | NO |
| 290-0159 | 3W | 90-95lm | 6000K | 25° | NO |
| 290-0160 | 3W | 90-95lm | RGB | 25° | NO |
| 290-0161 | 3W | 90-95lm | 3000K | 40° | NO |
| 290-0162 | 3W | 90-95lm | 4000K | 40° | NO |
| 290-0163 | 3W | 90-95lm | 6000K | 40° | NO |
| 290-0164 | 3W | 90-95lm | RGB | 40° | NO |
| 290-0165 | 3W | 90-95lm | 3000K | 60° | NO |
| 290-0166 | 3W | 90-95lm | 4000K | 60° | NO |
| 290-0167 | 3W | 90-95lm | 6000K | 60° | NO |
| 290-0168 | 3W | 90-95lm | RGB | 60° | NO |
| 290-0169 | 3W | 90-95lm | 3000K | 90° MODEL1 | NO |
| 290-0170 | 3W | 90-95lm | 4000K | 90° MODEL1 | NO |
| 290-0171 | 3W | 90-95lm | 6000K | 90° MODEL1 | NO |
| 290-0172 | 3W | 90-95lm | RGB | 90° MODEL1 | NO |
| 290-0173 | 3W | 90-95lm | 3000K | 90° MODEL2 | NO |
| 290-0174 | 3W | 90-95lm | 4000K | 90° MODEL2 | NO |
| 290-0175 | 3W | 90-95lm | 6000K | 90° MODEL2 | NO |
| 290-0176 | 3W | 90-95lm | RGB | 90° MODEL2 | NO |
| 290-0177 | 9W | 675-720lm | 3000K | 18° | NO |
| 290-0178 | 9W | 675-720lm | 4000K | 18° | NO |
| 290-0179 | 9W | 675-720lm | 6000K | 18° | NO |
| 290-0180 | 9W | 675-720lm | RGB | 18° | NO |
| 290-0181 | 9W | 675-720lm | 3000K | 28° | NO |
| 290-0182 | 9W | 675-720lm | 4000K | 28° | NO |
| 290-0183 | 9W | 675-720lm | 6000K | 28° | NO |
| 290-0184 | 9W | 675-720lm | RGB | 28° | NO |
| 290-0185 | 9W | 675-720lm | 3000K | 38° | NO |
| 290-0186 | 9W | 675-720lm | 4000K | 38° | NO |
| 290-0187 | 9W | 675-720lm | 6000K | 38° | NO |
| 290-0188 | 9W | 675-720lm | RGB | 38° | NO |
| 290-0189 | 18W | 1350-1450lm | 3000K | 18° | NO |
| 290-0190 | 18W | 1350-1450lm | 4000K | 18° | NO |
| 290-0191 | 18W | 1350-1450lm | 6000K | 18° | NO |
| 290-0192 | 18W | 1350-1450lm | RGB | 18° | NO |



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| REFERENCE | WATT | LUMEN | COLOR | BEAM ANGLE | DIMMABLE |
|-----------|------|-------------|-------|------------|----------|
| 290-0193 | 18W | 1350-1450lm | 3000K | 28° | NO |
| 290-0194 | 18W | 1350-1450lm | 4000K | 28° | NO |
| 290-0195 | 18W | 1350-1450lm | 6000K | 28° | NO |
| 290-0196 | 18W | 1350-1450lm | RGB | 28° | NO |
| 290-0197 | 18W | 1350-1450lm | 3000K | 38° | NO |
| 290-0198 | 18W | 1350-1450lm | 4000K | 38° | NO |
| 290-0199 | 18W | 1350-1450lm | 6000K | 38° | NO |
| 290-0200 | 18W | 1350-1450lm | RGB | 38° | NO |

