



next generation led

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# LED Induction Spotlights

## 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 rear 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

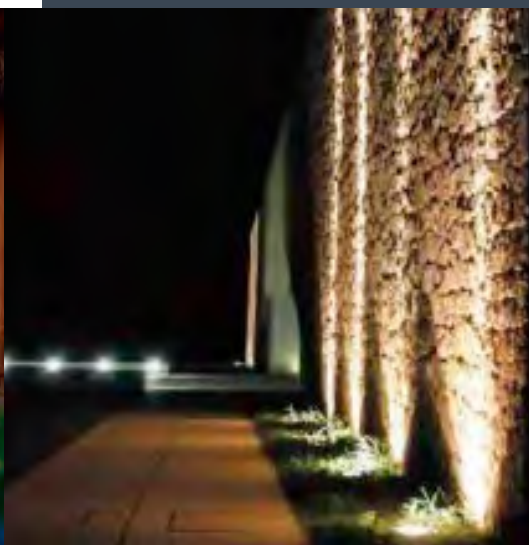
## Specifications

LED Induction Spotlight	3W	6W	9W	12W	18W
Input voltage			DC24V		
Color rendering index			RA > 80		
Color temperature		3000K, 4000K, 6000K, RED, GREEN, BLUE			
Temperature in use		- 20°C ~ 50°C			
Beam angle		28° - 38° - 48°			

## Application

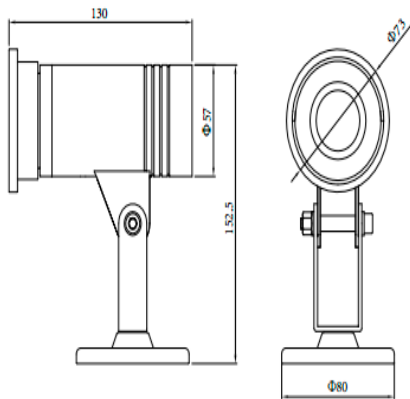
Hotels, leisure, retail, façade uplight.

Updated: September 2018

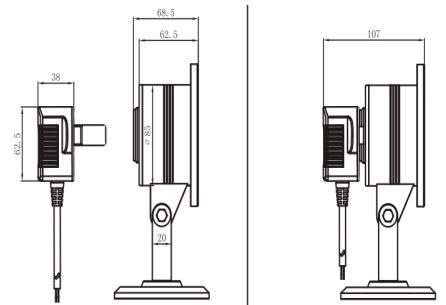


# Specifications

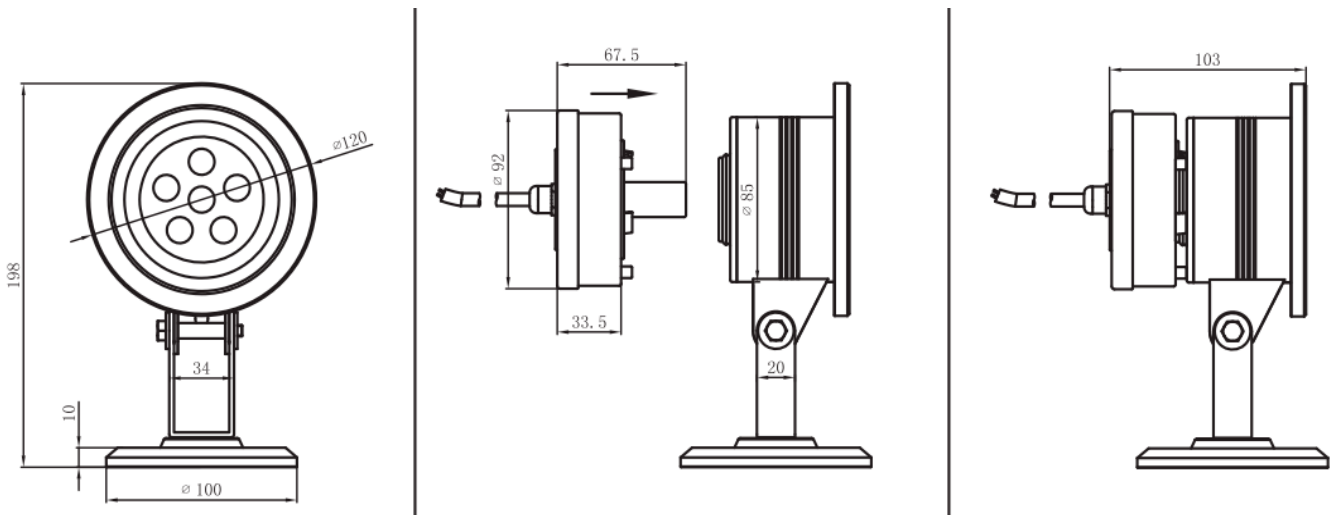
## 3W Model



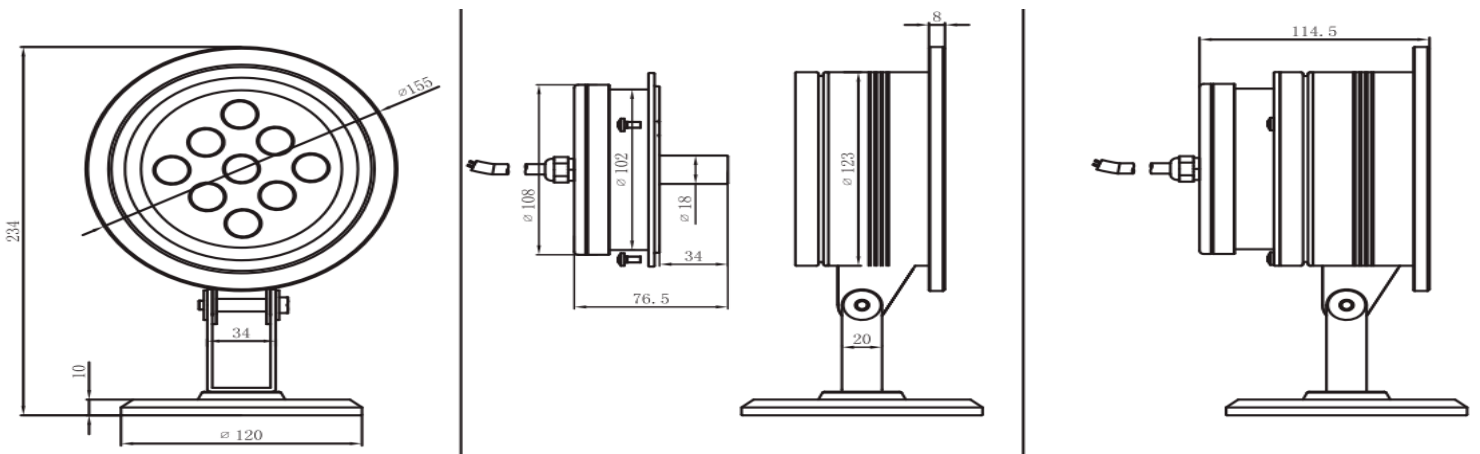
## 6W Model



## 9W Model

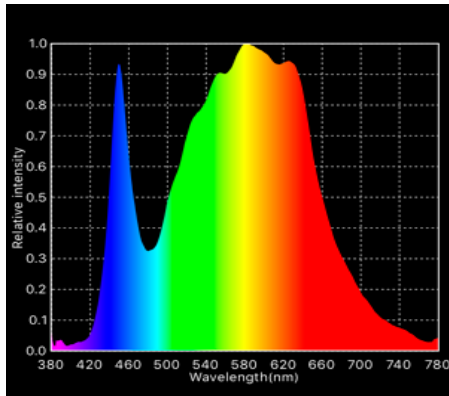
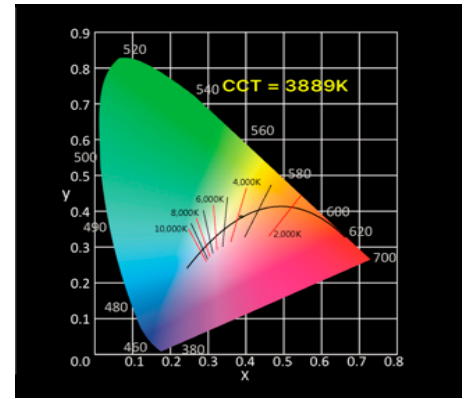


## 12W and 18W Model



## 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.

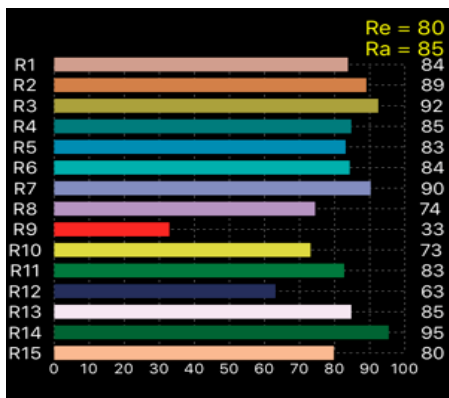
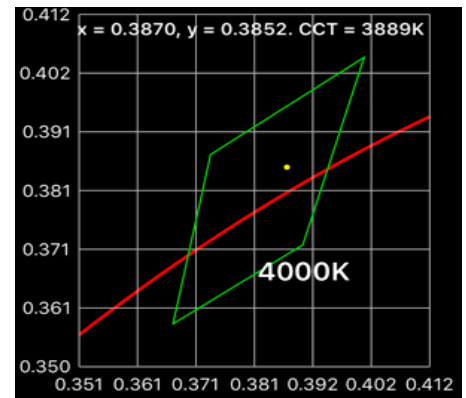


## SPECTRUM

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

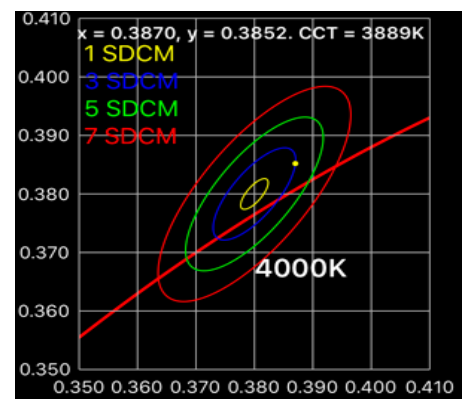
Re = average of R1 to R15

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



## Induction Spotlight

REFERENCE	WATT	LUMEN	COLOR	BEAM ANGLE	DIMMABLE
290-0201	3W	90-95lm	3000K	40°	NO
290-0202	3W	90-95lm	4000K	40°	NO
290-0203	3W	90-95lm	6000K	40°	NO
290-0204	3W	90-95lm	RED	40°	NO
290-0205	3W	90-95lm	GREEN	40°	NO
290-0206	3W	90-95lm	BLUE	40°	NO
290-0207	6W	450-480lm	3000K	28°	NO
290-0208	6W	450-480lm	3000K	38°	NO
290-0209	6W	450-480lm	3000K	48°	NO
290-0210	6W	450-480lm	4000K	28°	NO
290-0211	6W	450-480lm	4000K	38°	NO
290-0212	6W	450-480lm	4000K	48°	NO
290-0213	6W	450-480lm	6000K	28°	NO
290-0214	6W	450-480lm	6000K	38°	NO
290-0215	6W	450-480lm	6000K	48°	NO
290-0216	6W	450-480lm	RED	28°	NO
290-0217	6W	450-480lm	RED	38°	NO
290-0218	6W	450-480lm	RED	48°	NO
290-0219	6W	450-480lm	GREEN	28°	NO
290-0220	6W	450-480lm	GREEN	38°	NO
290-0221	6W	450-480lm	GREEN	48°	NO
290-0222	6W	450-480lm	BLUE	28°	NO
290-0223	6W	450-480lm	BLUE	38°	NO
290-0224	6W	450-480lm	BLUE	48°	NO
290-0225	9W	678-720lm	3000K	28°	NO
290-0226	9W	678-720lm	3000K	38°	NO
290-0227	9W	678-720lm	3000K	48°	NO
290-0228	9W	678-720lm	4000K	28°	NO
290-0229	9W	678-720lm	4000K	38°	NO
290-0230	9W	678-720lm	4000K	48°	NO
290-0231	9W	678-720lm	6000K	28°	NO
290-0232	9W	678-720lm	6000K	38°	NO
290-0233	9W	678-720lm	6000K	48°	NO
290-0234	9W	678-720lm	RED	28°	NO
290-0235	9W	678-720lm	RED	38°	NO
290-0236	9W	678-720lm	RED	48°	NO
290-0237	9W	678-720lm	GREEN	28°	NO
290-0238	9W	678-720lm	GREEN	38°	NO
290-0239	9W	678-720lm	GREEN	48°	NO
290-0240	9W	678-720lm	BLUE	28°	NO
290-0241	9W	678-720lm	BLUE	38°	NO
290-0242	9W	678-720lm	BLUE	48°	NO
290-0243	12W	900-960lm	3000K	28°	NO
290-0244	12W	900-960lm	3000K	38°	NO
290-0245	12W	900-960lm	3000K	48°	NO
290-0246	12W	900-960lm	4000K	28°	NO
290-0247	12W	900-960lm	4000K	38°	NO
290-0248	12W	900-960lm	4000K	48°	NO

## Induction Spotlight

REFERENCE	WATT	LUMEN	COLOR	BEAM ANGLE	DIMMABLE
290-0249	12W	900-960lm	6000K	28°	NO
290-0250	12W	900-960lm	6000K	38°	NO
290-0251	12W	900-960lm	6000K	48°	NO
290-0252	12W	900-960lm	RED	28°	NO
290-0253	12W	900-960lm	RED	38°	NO
290-0254	12W	900-960lm	RED	48°	NO
290-0255	12W	900-960lm	GREEN	28°	NO
290-0256	12W	900-960lm	GREEN	38°	NO
290-0257	12W	900-960lm	GREEN	48°	NO
290-0258	12W	900-960lm	BLUE	28°	NO
290-0259	12W	900-960lm	BLUE	38°	NO
290-0260	12W	900-960lm	BLUE	48°	NO
290-0261	18W	1350-1440lm	3000K	28°	NO
290-0262	18W	1350-1440lm	3000K	38°	NO
290-0263	18W	1350-1440lm	3000K	48°	NO
290-0264	18W	1350-1440lm	4000K	28°	NO
290-0265	18W	1350-1440lm	4000K	38°	NO
290-0266	18W	1350-1440lm	4000K	48°	NO
290-0267	18W	1350-1440lm	6000K	28°	NO
290-0268	18W	1350-1440lm	6000K	38°	NO
290-0269	18W	1350-1440lm	6000K	48°	NO
290-0270	18W	1350-1440lm	RED	28°	NO
290-0271	18W	1350-1440lm	RED	38°	NO
290-0272	18W	1350-1440lm	RED	48°	NO
290-0273	18W	1350-1440lm	GREEN	28°	NO
290-0274	18W	1350-1440lm	GREEN	38°	NO
290-0275	18W	1350-1440lm	GREEN	48°	NO
290-0276	18W	1350-1440lm	BLUE	28°	NO
290-0277	18W	1350-1440lm	BLUE	38°	NO
290-0278	18W	1350-1440lm	BLUE	48°	NO