



next generation led

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# H-SERIE SMD Floodlight

## Properties

- Lifespan L70 %: 50.000 hours
- Instant switch-on and flickerfree
- No UV radiation and low glare
- Surge protection for modesl ≥ 60W
- Warranty: 5 years



IP 65

80% Energy Savings

Quality Driver

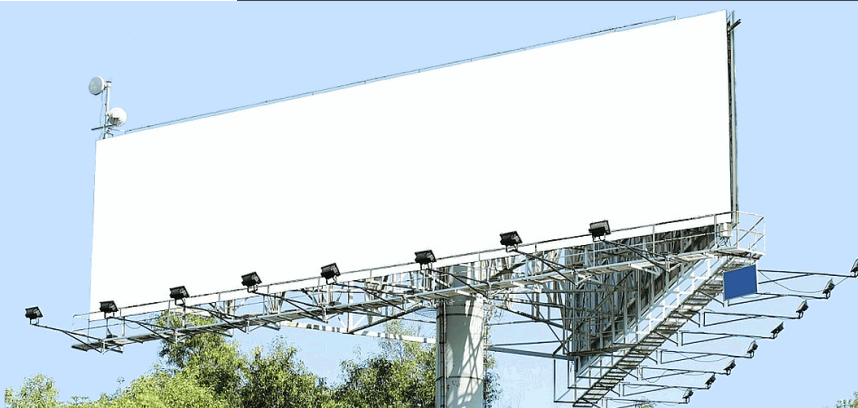
## Specifications

| H-SERIE               | SMD H10                 | SMD H20    | SMD H30    | SMD H60    |
|-----------------------|-------------------------|------------|------------|------------|
| Input voltage         | AC100 - 240V / 50/60Hz  |            |            |            |
| Power                 | 10 W                    | 20 W       | 30 W       | 60 W       |
| Power factor (Pf)     | >=0.93                  | >=0.93     | >=0.93     | >=0.93     |
| Number of LED SMD5630 | 24                      | 48         | 72         | 144        |
| Lumen                 | 1500 lm                 | 3000 lm    | 4500 lm    | 9000 lm    |
| Color rendering index | Ra > 70                 |            |            |            |
| Color temperature     | 3000 K - 4000 K- 5000 K |            |            |            |
| Temperature in use    | - 20°C ~ 50°C           |            |            |            |
| Dimensions            | 166/107/32              | 216/152/40 | 226/167/40 | 265/220/50 |
| Weight                | 550g                    | 1000g      | 1100g      | 2500g      |

## Application

Shop, showroom, galery, billboards, exhibition booth, ...

Updated: Sept. 2017

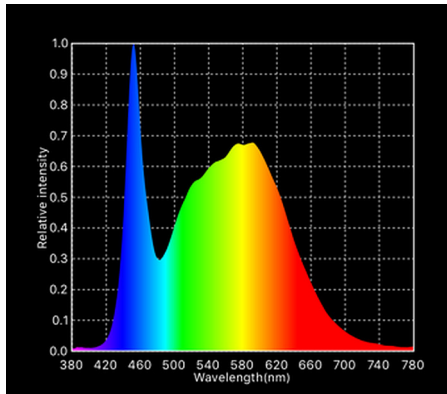
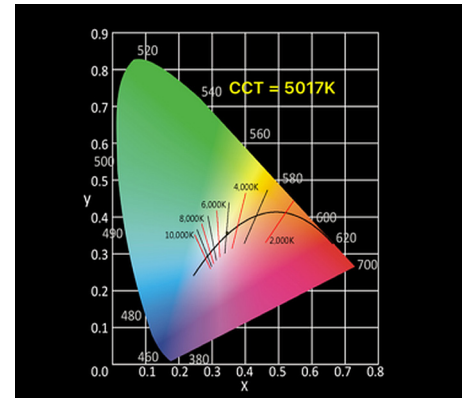


# Specifications

| H-SERIE               | SMD H80                  | SMD H100              | SMD H150              | SMD H180              |
|-----------------------|--------------------------|-----------------------|-----------------------|-----------------------|
| Input voltage         | AC100 - 240V / 50/60Hz   | AC90 - 305V / 50/60Hz | AC90 - 305V / 50/60Hz | AC90 - 305V / 50/60Hz |
| Power                 | 80 W                     | 100 W                 | 150 W                 | 180 W                 |
| Powerfactor (Pf)      | $\geq 0.93$              | $\geq 0.95$           | $\geq 0.95$           | $\geq 0.95$           |
| Number of LED SMD5630 | 196                      | 240                   | 336                   | 384                   |
| Lumen                 | 12000 lm                 | 15000 lm              | 22500 lm              | 27000 lm              |
| Color rendering index | $>70$                    | $>70$                 | $>70$                 | $>70$                 |
| Color temperature     | 3000 K - 4000 K - 5000 K |                       |                       |                       |
| Temperature in use    | - 20°C ~ 50°C            | - 40°C ~ 50°C         | - 40°C ~ 50°C         | - 40°C ~ 50°C         |
| Dimensions            | 300/245/55               | 345/295/60            | 365/330/60            | 400/360/60            |
| Gewicht               | 4500g                    | 6000g                 | 7500g                 | 8500g                 |

## 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.

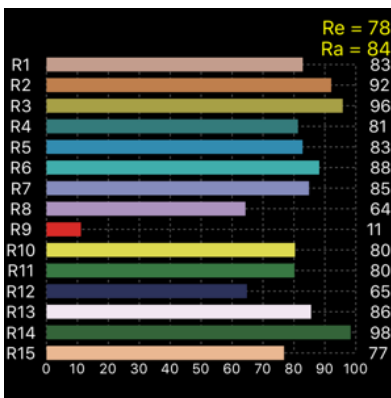
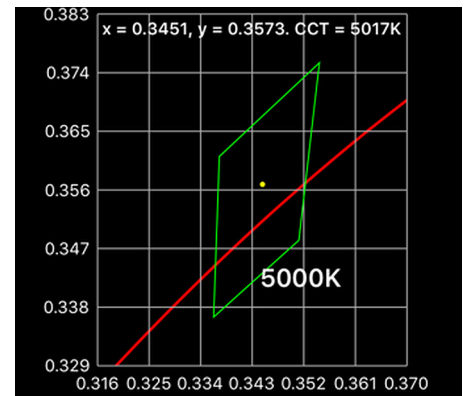


## SPECTRUM

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

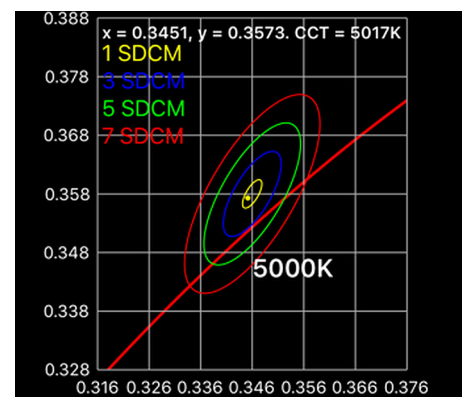
Re = average of R1 to R15

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

## SDCM

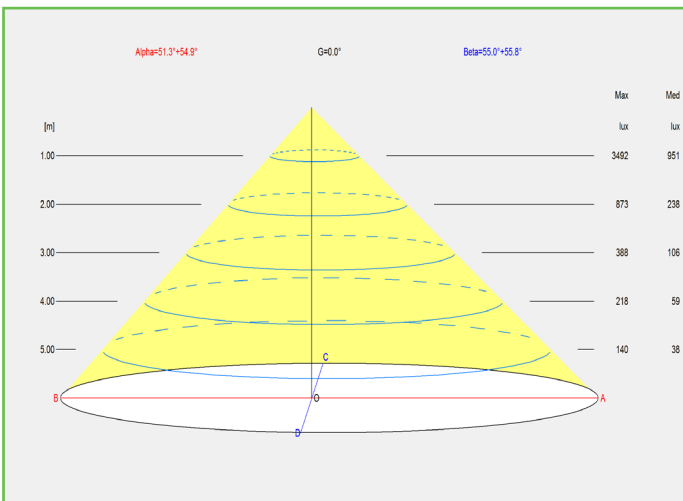
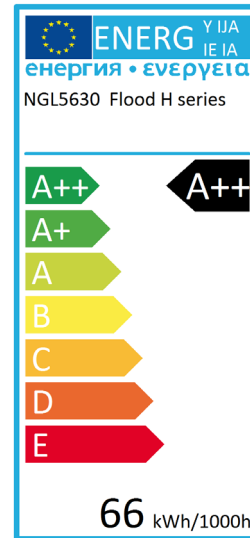
SDCM is an acronym which stands for Standard Deviation Colour Matching. SDCM has the same meaning as a "MacAdam ellipse". A 1-step MacAdam ellipse defines a zone in the CIE 1931 2 deg (xy) colour space within which the human eye cannot discern colour difference. Most LEDs are binned at the 4-7 step level,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



## ENERGIELABEL

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.

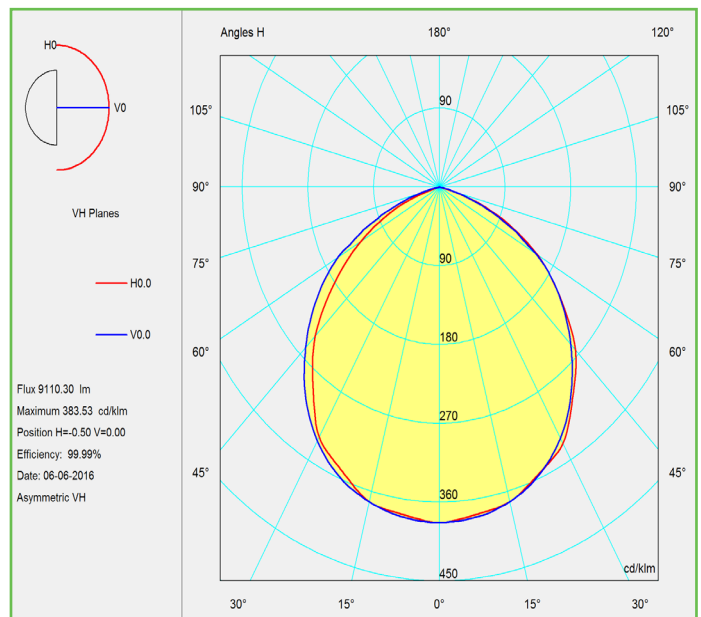


## BUNDELHOEK

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.



## H-SERIE SMD FLOODLIGHT

| REFERENCE | WATT | LUMEN    | COLOR  | BEAM | DIMMABLE |
|-----------|------|----------|--------|------|----------|
| 162-0001  | 10W  | 1400 Lm  | 3000 K | 120° | No       |
| 162-0002  | 10W  | 1450 Lm  | 4000 K | 120° | No       |
| 162-0003  | 10W  | 1500 Lm  | 5000 K | 120° | No       |
| 162-0004  | 20W  | 2900 Lm  | 3000 K | 120° | No       |
| 162-0005  | 20W  | 3000 Lm  | 4000 K | 120° | No       |
| 162-0006  | 20W  | 3100 Lm  | 5000 K | 120° | No       |
| 162-0007  | 30W  | 4200 Lm  | 3000 K | 120° | No       |
| 162-0008  | 30W  | 4350 Lm  | 4000 K | 120° | No       |
| 162-0009  | 30W  | 4500 Lm  | 5000 K | 120° | No       |
| 162-0010  | 60W  | 8500 Lm  | 3000 K | 120° | Yes      |
| 162-0011  | 60W  | 8750 Lm  | 4000 K | 120° | Yes      |
| 162-0012  | 60W  | 9000 Lm  | 5000 K | 120° | Yes      |
| 162-0013  | 80W  | 11000 Lm | 3000 K | 120° | Yes      |
| 162-0014  | 80W  | 11500 Lm | 4000 K | 120° | Yes      |
| 162-0015  | 80W  | 12000 Lm | 5000 K | 120° | Yes      |
| 162-0016  | 100W | 14000 Lm | 3000 K | 120° | Yes      |
| 162-0017  | 100W | 14500 Lm | 4000 K | 120° | Yes      |
| 162-0018  | 100W | 15000 Lm | 5000 K | 120° | Yes      |
| 162-0022  | 150W | 21000 Lm | 3000 K | 120° | Yes      |
| 162-0023  | 150W | 22000 Lm | 4000 K | 120° | Yes      |
| 162-0024  | 150W | 23000 Lm | 5000 K | 120° | Yes      |
| 162-0025  | 180W | 25600 Lm | 3000 K | 120° | Yes      |
| 162-0026  | 180W | 26300 Lm | 4000 K | 120° | Yes      |
| 162-0027  | 180W | 27000 Lm | 5000 K | 120° | Yes      |

