



## Introduction

This is an IP65 spike light which has standard version and anti-glare version, it adopts Bridgelux COB light source with optic lens design, beam angles of 36 degrees and 60 degrees for option. The lamp head can be rotated 350 degrees horizontally and 90 degrees vertically, so it can do a flexible lighting direction adjustment. The lamp body is made of ADC12 aluminum, which has strong heat dissipation, corrosion resistance and anti-aging ability. AC220V and DC24V for option, it's a good lighting choice for gardens, exterior walls, fences etc.

## Features

- The lamp head can be rotated 350 degrees horizontally and 90 degrees vertically
- Installation ways: Spike / Surface mount
- Standard version and anti-glare version for option
- ADC12 aluminium housing
- AC220V and DC24V for option
- IP65 protection level
- Internal flicker free driver

## Application Areas

It applies to landscaping embellishment lighting for residence and community and all kind of parks.



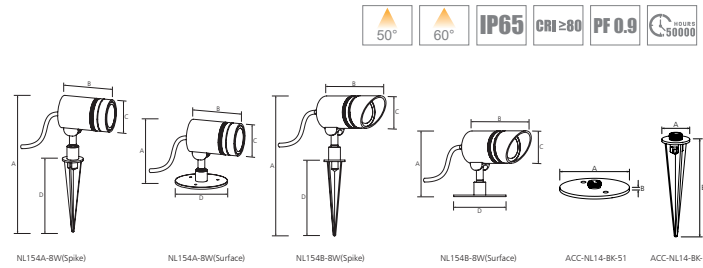


### Technical Data Sheet(AC230V)

| Code                               | NL154A-8W(Spike) |         | NL154A-8W(Surface)                             | NL154B-8W(Spike) | NL154B-8W(Surface) |
|------------------------------------|------------------|---------|------------------------------------------------|------------------|--------------------|
| Dimension(mm)                      | 268*97*62        |         | 123*97*62                                      | 268*134*62       | 123*134*62         |
| Cutout (mm)                        |                  |         | -                                              |                  |                    |
| Watt(W)                            |                  |         | 8W                                             |                  |                    |
| Rated Input Voltage                |                  |         | AC220-240V                                     |                  |                    |
| Input Voltage                      |                  |         | AC198-264V                                     |                  |                    |
| LED Module Input                   |                  |         | DC30-40V                                       |                  |                    |
| Light Source                       |                  |         | COB                                            |                  |                    |
| SDCM                               |                  |         | <5                                             |                  |                    |
| CCT(K)                             |                  |         | 1-CCT: 3000K/4000K/5000K    2-CCT: 3000K+4000K |                  |                    |
| CCT Selection DIP Switch           |                  |         | -                                              |                  |                    |
| Luminous Flux<br>(lm) ±5%<br>CRI80 | 1-CCT            | Non-DIM | 780-880                                        | -                | 750-810            |
|                                    |                  | DIM     | -                                              | -                | -                  |
|                                    | 2-CCT            | Non-DIM | 840-950                                        | -                | 820-880            |
|                                    |                  | DIM     | -                                              | -                | -                  |
| CRI                                |                  |         | ≥80                                            |                  |                    |
| Beam Angle (°)                     |                  |         | 36°/ 60°                                       | -                | 36°/ 50°           |
| UGR                                |                  |         | -                                              |                  |                    |
| LED Driver                         |                  |         | Driver built-in                                |                  |                    |
| Dimming Option                     |                  |         | -                                              |                  |                    |
| Sensor                             |                  |         | NO                                             |                  |                    |
| Emergency Kits                     |                  |         | NO                                             |                  |                    |
| Electrical Class                   |                  |         | Class II                                       |                  |                    |
| Ingress Protection(IP Rating)      |                  |         | IP65                                           |                  |                    |
| Impact Resistance(IK Rating)       |                  |         | IK06                                           |                  |                    |
| Product Finishing                  |                  |         | Black RAL9005                                  |                  |                    |
| Optics Material                    |                  |         | PMMA                                           |                  |                    |
| Housing Material                   |                  |         | Aluminium                                      |                  |                    |
| Lifetime (hr)                      |                  |         | 50,000h                                        |                  |                    |
| Glow wire test (°C)                |                  |         | 750°C                                          |                  |                    |
| Operating Temp.(°C)                |                  |         | -20°C~40°C                                     |                  |                    |
| Storage Temp.(°C)                  |                  |         | -20°C~65°C                                     |                  |                    |
| Installation                       |                  |         | Board mounted / Ground mounted                 |                  |                    |

### Technical Data Sheet(DC24V)

| Code                               | DC-NL154A-8W(Spike) |         | DC-NL154A-8W(Surface)                          | DC-NL154B-8W(Spike) | DC-NL154B-8W(Surface) |
|------------------------------------|---------------------|---------|------------------------------------------------|---------------------|-----------------------|
| Dimension(mm)                      | 268*97*62           |         | 123*97*62                                      | 268*134*62          | 123*134*62            |
| Cutout (mm)                        |                     |         | -                                              |                     |                       |
| Watt(W)                            |                     |         | 8W                                             |                     |                       |
| Rated Input Voltage                |                     |         | DC24V                                          |                     |                       |
| Input Voltage                      |                     |         | DC24V                                          |                     |                       |
| LED Module Input                   |                     |         | DC30-40V                                       |                     |                       |
| Light Source                       |                     |         | COB                                            |                     |                       |
| SDCM                               |                     |         | <5                                             |                     |                       |
| CCT(K)                             |                     |         | 1-CCT: 3000K/4000K/5000K    2-CCT: 3000K+4000K |                     |                       |
| CCT Selection DIP Switch           |                     |         | -                                              |                     |                       |
| Luminous Flux<br>(lm) ±5%<br>CRI80 | 1-CCT               | Non-DIM | 830-890                                        | -                   | 720-840               |
|                                    |                     | DIM     | -                                              | -                   | -                     |
|                                    | 2-CCT               | Non-DIM | 850-960                                        | -                   | 800-900               |
|                                    |                     | DIM     | -                                              | -                   | -                     |
| CRI                                |                     |         | ≥80                                            |                     |                       |
| Beam Angle (°)                     |                     |         | 36°/ 60°                                       | -                   | 36°/ 50°              |
| UGR                                |                     |         | -                                              |                     |                       |
| LED Driver                         |                     |         | Driver built-in                                |                     |                       |
| Dimming Option                     |                     |         | -                                              |                     |                       |
| Sensor                             |                     |         | NO                                             |                     |                       |
| Emergency Kits                     |                     |         | NO                                             |                     |                       |
| Electrical Class                   |                     |         | Class III                                      |                     |                       |
| Ingress Protection(IP Rating)      |                     |         | IP65                                           |                     |                       |
| Impact Resistance(IK Rating)       |                     |         | IK06                                           |                     |                       |
| Product Finishing                  |                     |         | Black RAL9005                                  |                     |                       |
| Optics Material                    |                     |         | PMMA                                           |                     |                       |
| Housing Material                   |                     |         | Aluminium                                      |                     |                       |
| Lifetime (hr)                      |                     |         | 50,000h                                        |                     |                       |
| Glow wire test (°C)                |                     |         | 750°C                                          |                     |                       |
| Operating Temp.(°C)                |                     |         | -20°C~40°C                                     |                     |                       |
| Storage Temp.(°C)                  |                     |         | -20°C~65°C                                     |                     |                       |
| Installation                       |                     |         | Board mounted / Ground mounted                 |                     |                       |



Measurement

| Code                  | Dimension(mm) |     |    |     | Size(mm)   | Product Weight (Kg) |        | Package weight (Kg) |         | Carton Size(cm) | Qty/CTN | 20GP (pcs) | 40HQ (pcs) |
|-----------------------|---------------|-----|----|-----|------------|---------------------|--------|---------------------|---------|-----------------|---------|------------|------------|
|                       | A             | B   | C  | D   |            | N.W/PC              | G.W/PC | N.W/CTN             | G.W/CTN |                 |         |            |            |
| NL154A-BW(Spike)      | 268           | 97  | 62 | 145 | 268*97*62  | 0.4                 | 0.45   | 9.6                 | 11.5    | 34*32*30.5      | 24      | 18984      | 44736      |
| NL154A-BW(Surface)    | 123           | 97  | 62 | 100 | 123*97*62  | 0.46                | 0.52   | 8.28                | 9.96    | 42*29*31        | 18      | 12852      | 30240      |
| NL154B-BW(Spike)      | 268           | 134 | 62 | 145 | 268*134*62 | 0.425               | 0.485  | 7.65                | 9.33    | 33*32*35.5      | 18      | 12852      | 30366      |
| NL154B-BW(Surface)    | 268           | 134 | 62 | 100 | 123*134*62 | 0.485               | 0.545  | 8.73                | 10.41   | 42*29*31        | 18      | 12852      | 30240      |
| DC-NL154A-BW(Spike)   | 268           | 97  | 62 | 145 | 268*97*62  | 0.4                 | 0.45   | 9.6                 | 11.5    | 34*32*30.5      | 24      | 18984      | 44736      |
| DC-NL154A-BW(Surface) | 123           | 97  | 62 | 100 | 123*97*62  | 0.46                | 0.52   | 8.28                | 9.96    | 42*29*31        | 18      | 12852      | 30240      |
| DC-NL154B-BW(Spike)   | 268           | 134 | 62 | 145 | 268*134*62 | 0.425               | 0.485  | 7.65                | 9.33    | 33*32*35.5      | 18      | 12852      | 30366      |
| DC-NL154B-BW(Surface) | 268           | 134 | 62 | 100 | 123*134*62 | 0.485               | 0.545  | 8.73                | 10.41   | 42*29*31        | 18      | 12852      | 30240      |
| ACC-NL14-BK-51        | 100           | 4   | -  | -   | Ø100*4     | 0.085               | -      | 3.4                 | 4.33    | 48.5*18.5*25.5  | 40      | 44800      | 113600     |
| ACC-NL14-BK-52        | 40            | 145 | -  | -   | Ø40*145    | 0.026               | 0.045  | 1.248               | 2.76    | 35*22*19        | 48      | 85536      | 205920     |

Driver Datasheet (AC230V)

| Total load wattage |                             | 8W                                      |
|--------------------|-----------------------------|-----------------------------------------|
| Output             | Rated output current        | 190mA                                   |
|                    | Output Voltage range        | 30-40V                                  |
|                    | Line Regulation             | ±5%                                     |
|                    | Setup Rise Time             | ≤500ms @230V                            |
|                    | Flickering Index            | 0.5%(NO RISK)                           |
| Input              | Rated Input Voltage         | AC200-240V                              |
|                    | Input Voltage               | AC198-264V                              |
|                    | Frequency                   | 50/60Hz                                 |
|                    | Rated Input Current         | ≤0.05A                                  |
|                    | Input Current               | ≤0.06A                                  |
|                    | Power Factor                | 0.8@230V                                |
|                    | THD                         | <20% @230V                              |
|                    | Efficiency                  | 80%@230V                                |
|                    | No load wattage             | <0.5W@230V                              |
| Protection         | Short circuit protection    | PASS                                    |
|                    | Over voltage protection     | PASS                                    |
|                    | Over temperature protection | PASS                                    |
| Safety & EMC       | Withstand voltage           | I/P-O/P:3.75KV <sub>ac</sub> ; <5mA 60S |
|                    | Isolation Resistance        | I/P-O/P: 500VDC, ≥4M Ω                  |
|                    | Surge                       | IEC/EN61000-4-5 (L-N:1KV)               |
|                    | EMC Emission                | EN55015, EN61000-3-2                    |
|                    | EMC Immunity                | EN61000-4-2,3,4,5,6,8,11; EN61547       |

Driver Datasheet (DC24V)

| Total load wattage |                             | 8W                                |
|--------------------|-----------------------------|-----------------------------------|
| Output             | Rated output current        | 200mA                             |
|                    | Output Voltage range        | 30-40V                            |
|                    | Line Regulation             | ±5%                               |
|                    | Setup Rise Time             | 0.5S                              |
|                    | Flickering Index            | 0.5%(NO RISK)                     |
| Input              | Rated Input Voltage         | DC 21.6-26.4V                     |
|                    | Input Voltage               | DC 24V                            |
|                    | Frequency                   | -                                 |
|                    | Rated Input Current         | 0.5A@DC24V                        |
|                    | Input Current               | 0.34A                             |
|                    | Power Factor                | -                                 |
|                    | THD                         | -                                 |
|                    | Efficiency                  | 82%                               |
|                    | No load wattage             | <0.5W                             |
| Protection         | Short circuit protection    | NO                                |
|                    | Over voltage protection     | PASS                              |
|                    | Over temperature protection | -                                 |
| Safety & EMC       | Withstand voltage           | -                                 |
|                    | Isolation Resistance        | -                                 |
|                    | Surge                       | -                                 |
|                    | EMC Emission                | EN55015, EN61000-3-2              |
|                    | EMC Immunity                | EN61000-4-2,3,4,5,6,8,11; EN61547 |

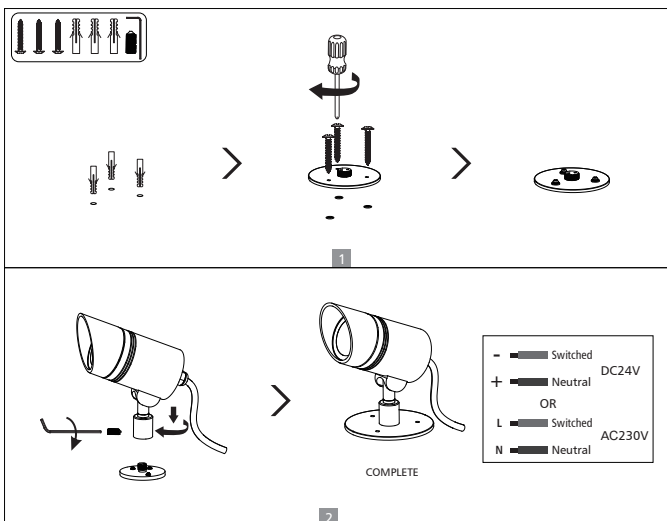
## Installation Procedure

### WARNING

1. Switch off before installation.
2. Switch on only after complete installation and examination of the circuit.
3. Professional electrician for installation and maintenance only.



## Board mount installation



## Ground mounted

