



Simple and easy appearance, in line with contemporary aesthetic concept. The product has the structure and appearance design patent. High efficiency constant current driver, ensure the light source is maximum used. can be easily installed in any type of space, to create amazing light effects, The LED is set back to minimize glare. The main body is made of die-cast aluminum that guarantees optimum heat dissipation with single optic lens family in the most popular sizes and beams with excellent color rendering, and Supreme light quality.

## FIELDS OF APPLICATION:

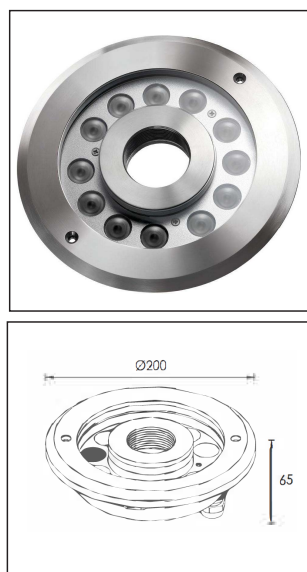
Garden, landscape lighting, etc.

The AMARO In-ground light adaptable for outdoor applications.

High Lumen Efficacy 115 lm/W  
Front cover - Stainless Steel SUS 316L  
Body - Stainless Steel SUS 316L  
T - 60-80um Adhesion of IOS class1  
Optical lens efficiency>90%  
PCB High heat-conductive rata  
aluminum,conductivity>2.0w/mk  
Driver - High efficiency, low flicker driver  
Gasket - Molding shaped silicone seal  
Wire - 2m H05RN-F 2x1.0mm2  
Glowing Wire Test - 850°  
Cable gland - Nickel coated copper/ABS  
Mounting sleeve - ABS/PVC Temperature - of=20 °C ~ of  
max=40 °C

Model --- **AMARO**

**AMARO-A-1-60-27-W-24W**



## AMARO

|            |                                   |       |       |               |       |         |      |
|------------|-----------------------------------|-------|-------|---------------|-------|---------|------|
| Size       | 1                                 | 2     | 3     | 4             | 5     | 6       | 7    |
| Driver     | On/Off                            | Dali  | 1-10  | Phase Dimming | RGBW  | Casambi | Tuya |
| Beam Angle | 60°                               |       |       |               |       |         |      |
| Kelvin     | 27                                | 30    | 40    | 50            | 60    | TUN     | 1    |
|            | 2700k                             | 3000k | 4000k | 5000k         | 6000k | Tunable | RGB  |
| Finishing  | W B G X                           |       |       |               |       |         |      |
|            | white black grey as per requested |       |       |               |       |         |      |
| Wattage    | 12*2W                             |       |       |               |       |         |      |

Lighting Customization Solution can offer you modifications for environment with higher options as a customized product.

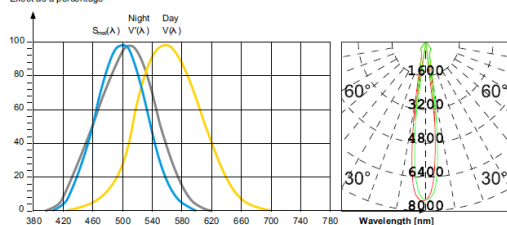
IP68 IK08 McA Step 3 24V DC



A - Ø 200-65mm

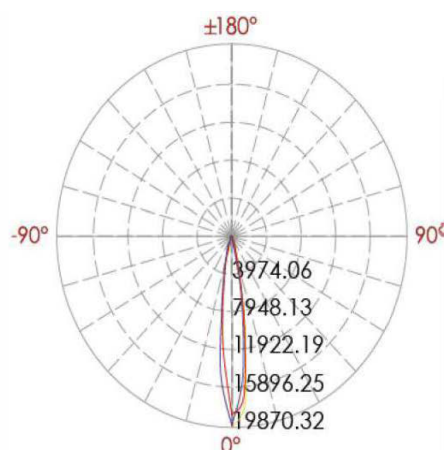
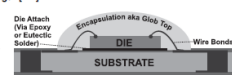
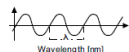
## Relative spectral perception of brightness and melanopic effect

Effect as a percentage



Explanation of the three curves:

V(A) = Perception of brightness, daytime seeing with the cones  
V(A) = Nighttime seeing with the rods  
S\_m(A) = Melatonin suppression with the photosensitive ganglion cells



| LED life time                 |           |      | Operating time 1.000 h |      |      |      |      |      |      |      |      |      |      |
|-------------------------------|-----------|------|------------------------|------|------|------|------|------|------|------|------|------|------|
| Lamp Lumen Maintenance Factor |           |      | 1                      | 10   | 20   | 30   | 40   | 50   | 60   | 70   | 80   | 90   | 100  |
| Lamp Survival Factor          |           |      | 1                      | 1    | 1    | 1    | 1    | 1    | 1    | 0.99 | 0.99 | 0.99 |      |
| L80                           | 50.000 h  | LLMF | 1                      | 0.96 | 0.92 | 0.88 | 0.84 | 0.80 | 0.76 | 0.72 | 0.68 | 0.64 | 0.60 |
|                               |           | LSF  | 1                      | 1    | 1    | 1    | 1    | 1    | 0.99 | 0.99 | 0.99 | 0.99 | 0.98 |
| L80                           | 100.000 h | LLMF | 1                      | 0.98 | 0.96 | 0.94 | 0.92 | 0.90 | 0.88 | 0.86 | 0.84 | 0.82 | 0.80 |
|                               |           | LSF  | 1                      | 1    | 1    | 1    | 1    | 1    | 1    | 0.99 | 0.99 | 0.99 | 0.99 |

