# Leon 2 Bollard
## fixed & adjustable



EMFA

# LEON 2 LED BOLLARD
## Class I IP65

Available in any of these RAL colors

7004 7016 9005 9016 6002 1015



EMFA's Leon Bollard combines a die-cast aluminium head housing an LED unit with an extrusion stainless steel pipe. The bollard is designed to light pathways, landscapes and open spaces. The Leon bollard gives light only in the downward direction. This avoids any kind of glare and light pollution. The head and pipe are connected by a hidden screw within the pipe. The head contains LEDs that can be powered up to 6-12W. An optional aluminium anchorage kit is available for mounting into concrete. An alternative option is sleave anchors for mounting onto existing concrete or a picket to mount into the earth.

**Head**
Die cast aluminium
**Diffusers**
Frosted polyamide 6.6
**Pipe**
316L Stainless Steel
**Paint**
Electrostatic powder

**Fixed**



**Adjustable**





### "Customization" is EMFA's standard
EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 3 standard paint colors, 2 LED colors, and 2 wattages, are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.



### LEDs
Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperatture over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

### Thermal Management
All fixtures are designed to withstand ambient temperatures of at least 50˚C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA's laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

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**CIRCULAR LED**

**Led** : Circular LEDs (6W or 12W)
**Voltage** : 12-24V External Driver
(12-24 VDC on request)
**CRI** : >80

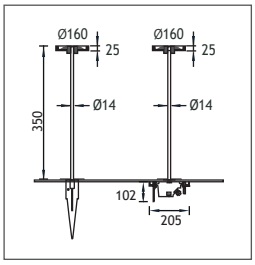
### 350mm

**Fixed**



**Adjustable**






| Power | Kelvin | Real Lumen Output | Code No Fixed | Code No Adjustable |
|---|---|---|---|---|
| 6W | 2700 K | 570 lm | 270003 | 270103 |
| 6W | 3000 K | 570 lm | 270001 | 270101 |
| 6W | 4000 K | 581 lm | 270002 | 270102 |
| 12W | 2700 K | 1140 lm | 270013 | 270113 |
| 12W | 3000 K | 1140 lm | 270011 | 270111 |
| 12W | 4000 K | 1162 lm | 270012 | 270112 |

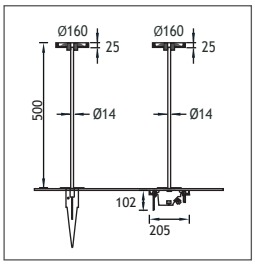
### 500mm

**Fixed**



**Adjustable**






| Power | Kelvin | Real Lumen Output | Code No Fixed | Code No Adjustable |
|---|---|---|---|---|
| 6W | 2700 K | 570 lm | 271003 | 271103 |
| 6W | 3000 K | 570 lm | 271001 | 271101 |
| 6W | 4000 K | 581 lm | 271002 | 271102 |
| 12W | 2700 K | 1140 lm | 271013 | 271113 |
| 12W | 3000 K | 1140 lm | 271011 | 271111 |
| 12W | 4000 K | 1162 lm | 271012 | 271112 |

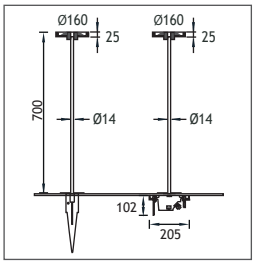
### 700mm

**Fixed**

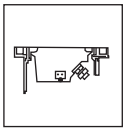


**Adjustable**






| Power | Kelvin | Real Lumen Output | Code No Fixed | Code No Adjustable |
|---|---|---|---|---|
| 6W | 2700 K | 570 lm | 272003 | 272103 |
| 6W | 3000 K | 570 lm | 272001 | 272101 |
| 6W | 4000 K | 581 lm | 272002 | 272102 |
| 12W | 2700 K | 1140 lm | 272013 | 272113 |
| 12W | 3000 K | 1140 lm | 272011 | 272111 |
| 12W | 4000 K | 1162 lm | 272012 | 272112 |





**For LEON 2**

**Recessing Tube**
Internal Driver
Code No: 953641

**Picket**
External Driver
Code No: 953642

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