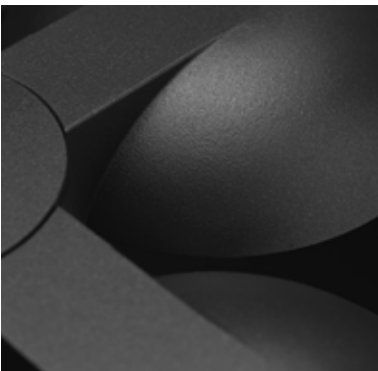
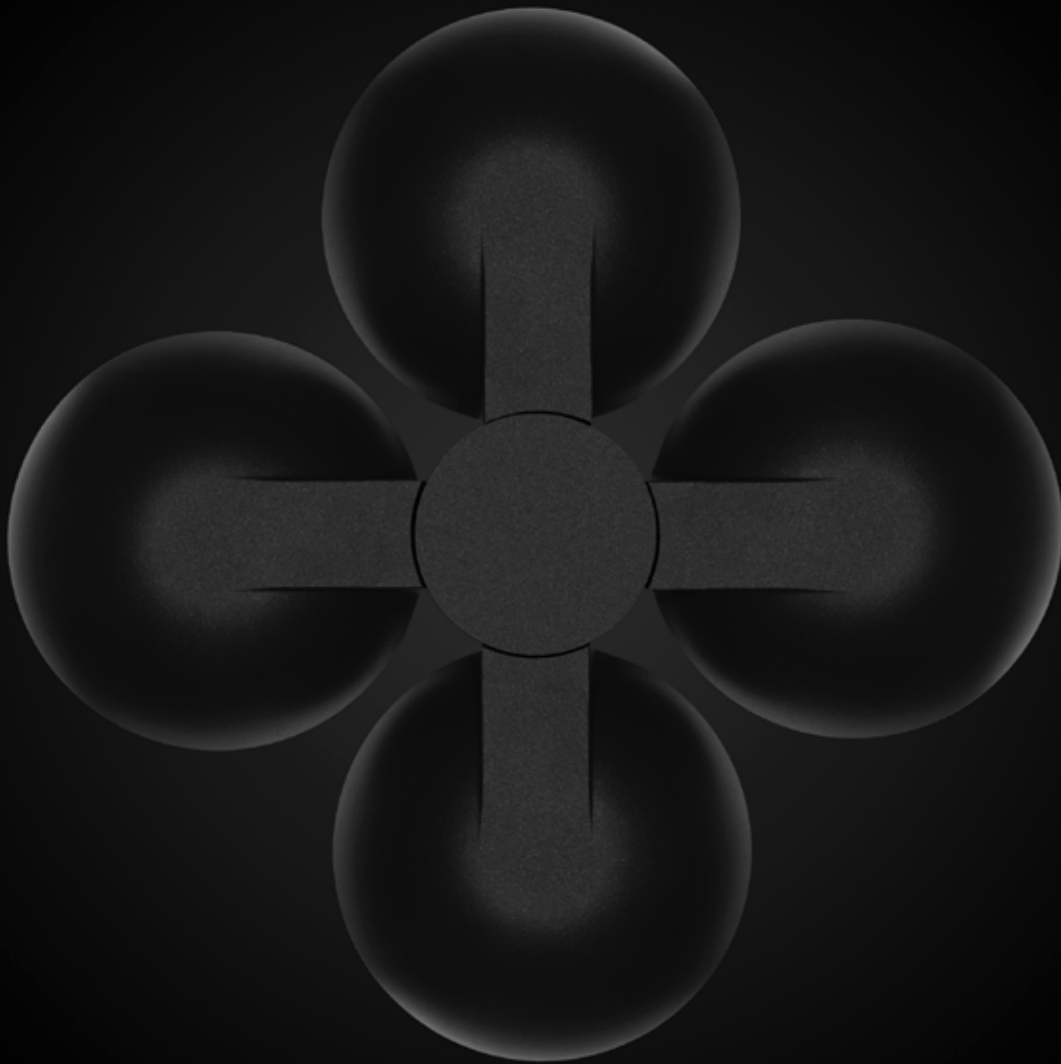


**EMFA**  
crafting light

**odeon bollard**





EMFA's Odean Bollard combines a die-cast aluminium head housing an LED unit with an extrusion aluminium pipe.

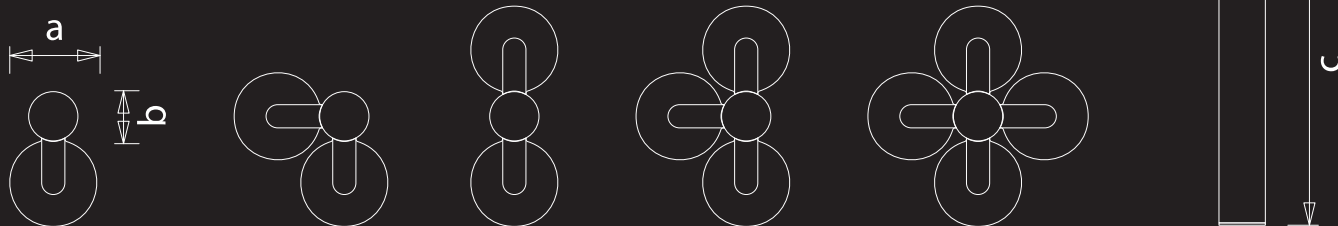
The bollard is designed to light pathways, landscapes and open spaces.

The unit comes with 5 different options of heads depending on much light is required and into which direction: with one head, two adjacent heads, two opposite heads, three heads, or four heads.

The head and pipe are connected by a hidden screw within the pipe.

One head contains 20 medium-power LEDs consuming 6W and providing over 500lm light output.

An optional galvanized steel anchorage kit is available for mounting into concrete. An alternative option is sleeve anchors for mounting onto existing concrete or a picket to mount into the earth.



| type      | code   | lamp                 | LED colors | a     | b  | c   | total lighting output |
|-----------|--------|----------------------|------------|-------|----|-----|-----------------------|
| mono      | 178101 | 20 x 87 mA (6W) LED  | 3000 K     | 152,5 | 80 | 500 | 640 lm                |
| mono      | 178102 | 20 x 87 mA (6W) LED  | 4000 K     | 152,5 | 80 | 500 | 640 lm                |
| duo 1-way | 178111 | 40 x 87 mA (12W) LED | 3000 K     | 152,5 | 80 | 500 | 1280 lm               |
| duo 1-way | 178112 | 40 x 87 mA (12W) LED | 4000 K     | 152,5 | 80 | 500 | 1280 lm               |
| duo 2-way | 178121 | 40 x 87 mA (12W) LED | 3000 K     | 152,5 | 80 | 500 | 1280 lm               |
| duo 2-way | 178122 | 40 x 87 mA (12W) LED | 4000 K     | 152,5 | 80 | 500 | 1280 lm               |
| trio      | 178131 | 60 x 87 mA (18W) LED | 3000 K     | 152,5 | 80 | 500 | 1920 lm               |
| trio      | 178132 | 60 x 87 mA (18W) LED | 4000 K     | 152,5 | 80 | 500 | 1920 lm               |
| quad      | 178141 | 80 x 87 mA (24W) LED | 3000 K     | 152,5 | 80 | 500 | 2560 lm               |
| quad      | 178142 | 80 x 87 mA (24W) LED | 4000 K     | 152,5 | 80 | 500 | 2560 lm               |

|                              |                                      |                     |  |
|------------------------------|--------------------------------------|---------------------|--|
| <b>Protection Rate</b>       | IP 67                                | <b>CRI</b>          | >80  |
| <b>Impact Resistance</b>     | IK 10                                | <b>Total Power</b>  | 6, 12, 18, or 24W                                  |
| <b>Class</b>                 | I                                    | <b>Gear</b>         | Electronic LED Driver<br>240VAC (24VDC on request) |
| <b>Place of Use</b>          | Exterior                             | <b>Cable Gland</b>  | 5m potted 3x0.75mm <sup>2</sup><br>H05VV-F         |
| <b>Application</b>           | Pathways, landscapes and open spaces | <b>Ambient Temp</b> | Ta < 50°C  |
| <b>Lamp Options</b>          | Medium Power LEDs                    |                     |  |
| <b>Mounting</b>              | Ground                               |                     |  |
| <b>Head</b>                  | Die cast aluminium                   |                     |  |
| <b>Pipe</b>                  | Extrusion aluminium                  |                     |  |
| <b>Paint</b>                 | Electrostatic powder                 |                     |  |
| <b>Screws</b>                | 316l stainless steel                 |                     |  |
| <b>Diffuser</b>              | Frosted polyamide 6.6                |                     |  |
| <b>Gaskets</b>               | Silicone                             |                     |  |
| <b>Total Lighting Output</b> | 640, 1280, 1920, or 2560lm           |                     |  |
| <b>Luminous Efficacy</b>     | 107lm/W                              |                     |  |





black textured  
ral 9005



black matte  
ral 9005



anthracite textured  
ral 7016



light grey textured  
ral 7004



white textured  
ral 9016



white matte  
ral 9016



ivory matte  
ral 1015



green glossy  
ral 6003



IK 10 IP 67



odeon mono  
odeon duo - 2 way

odeon duo - 1 way  
odeon trio  
odeon quad

6 standard RAL colors can be chosen from to adapt the Odeon to its environment (grey, anthracite, black, white, green and beige).

## global network

### central region

---

#### germany

LAMP 83 Deutschland GmbH  
Am Weihergraben 10  
74363 Göglingen  
tel: +49(0)7135 93 06 192  
fax: +49(0)7135 93 06 199  
kontakt@lamp83.de

#### france

INEDIT Lighting  
Le Studio, 25, rue de Cléry  
75002 Paris  
tel: +33(0)1 47 00 76 76  
fax: +33(0)1 47 00 87 73  
contact@inedit-lighting.com

#### united kingdom

RIDI Lighting Ltd  
Units 8 & 9 ,The Marshgate  
Centre, Parkway, Harlow  
Essex, CM19 5QP  
tel: +44(0)1279 450882  
fax: +44(0)1279 451169  
info@emfa.co.uk

#### turkey

EMFA -  
Elektrik Malzeme Fabrikasi A.S.  
Davutpasa Caddesi,  
Cebealibey Sokak No. 18  
34020 Topkapi / Istanbul  
tel: +902124822962  
fax: +902124822781  
emfa@emfa.com.tr

#### lebanon

Simon Electric Center  
Mar Mikael Armenia Street  
tel: +961 1 560222 333  
fax: +961 1 581644  
simonel@cyberia.net.lb

#### saudi arabia

SmartHome Trading  
P O Box 43262  
11561 Riyadh  
tel: +966 11 201 2005  
fax: +966 11 201 2414  
care@smarthomeco.com

#### ireland

Lidacel Ltd  
Unit 18 Willow Business Park,  
Nangor Road, Dublin 12  
tel: +353 1 4605 342  
fax: +353 1 4605344  
sales@lidacel.com

#### belgium

EURO-LUCE  
Heirbaan 38, B-1570  
Galmaarden, Belgium  
tel: +32 54 55 71 10  
fax: +32 54 55 71 15  
info@euro-luce.be  
www.euro-luce.eu

#### russia

International Lighting Solutions  
Zvonarskij Pereulok House 1/1  
Moscow  
tel: +7 903 7926341  
fax: +7 903 7926341  
9706028@mail.ru

#### qatar

Beyond Lighting Co.  
Airport Road, Doha  
tel: +974 44664434  
fax: +974 44673882  
info@beyondlighting.net

#### mauritius

EME Engineering Ltd  
95 Victoria Avenue,  
Quatre Bornes  
tel: +2304679001  
fax: +2304679002  
nizamm@ememauritius.com

## global network

### western region

---

#### canada

NOVUS DESIGN Inc.  
385 St-Hubert, Laval,  
H7G 2Y8, Quebec  
tel: +1 888 668 8787  
fax: +1 888 668 5454  
ary@novuslighting.com

#### united states

NOVUS DESIGN Inc.  
385 St-Hubert, Laval,  
H7G 2Y8, Quebec  
tel: +1 888 668 8787  
fax: +1 888 668 5454  
ary@novuslighting.com

#### caribbean islands

Electec  
29 Wellington Road,  
Cole Bay, St Maarten  
tel: +1 721 544 2051  
fax: +1 71 544 3641  
sales@electec.info

#### colombia

LED-LS COLOMBIA  
Carrera 14 #93-40, Of. 503  
Bogotá  
tel: COL + (57)(1) 636-0566  
USA +1(305) 3573252  
info@led-ls.com

#### peru

LED-LS PERU  
Av. Reducto 1310, Of. 303  
Lima, Perú  
tel: PERU + (51)(1) 242-2630  
USA +1(305) 3573252  
info@led-ls.com

#### chile

LED-LS CHILE  
La Concepción 141, Oficina 605  
Providencia, Santiago de Chile  
tel: CHIL + (56)(2) 2369706  
USA +1(305) 3573252  
info@led-ls.com

### eastern region

---

#### russia

International Lighting Solutions  
Zvonarskij Pereulok House 1/1,  
Moscow  
tel: +7 903 7926341  
fax: +7 903 7926341  
9706028@mail.ru

#### south korea

bara corporation  
410 GoldTower B/D,  
Manyeondong,  
Seogu, Daejeon  
tel: +82 42 482 4337  
fax: +82 42 482 4336  
bara\_co@naver.com

#### hong kong

SPL Lighting Company Ltd  
1401 Harbour Centre, 25  
Harbour Road, Wanchai  
tel: +852 3529 1623  
fax: +852 3529 1222  
info@splighting.com.hk

#### macau

GEOTECH Lighting & System Co.  
Ltd.  
Av. da Praia Grande No. 763,  
Edf. Lun Pong 14-Andar-D, S.A.R  
tel: +853 2835 6562  
fax: +853 2835 6563  
info@geotechmacau.com

#### new zealand

Decor Bellini Lighting Ltd  
96 New North Road,  
Eden Terrace, Auckland  
tel: +64 9 3361504  
fax: +64 9 3361581  
info@decorbellini.co.nz

## headquarters

EMFA  
Elektrik Malzeme Fabrikasi A.S.

Davutpasa Caddesi  
Cebealibey Sokak No. 18  
34020 Topkapi / Istanbul  
Turkey

tel: +90 212 4822962  
fax: +90 212 4822781

[emfa@emfa.com.tr](mailto:emfa@emfa.com.tr)

**EMFA**  
crafting light 