



shape of shade available in classic, cone and bowl. Clear and frosted

## DESCRIPTION

|                        |                                                                                 |
|------------------------|---------------------------------------------------------------------------------|
| Product                | Ekra BIO                                                                        |
| Spigot                 | Diecast LM6 Aluminium                                                           |
| Housing parts & Bowl   | Polycarbonate 88,3% bio-mass, certified ISCC+                                   |
| Mechanical impact      | IK10                                                                            |
| Ingress protection     | IP 66 sealing level in accordance with EN 60529 nickel plated brass cable gland |
| Dimensions (diam. x h) | 477x 355 mm                                                                     |
| Weight                 | 4.93 kg                                                                         |
| Windage area           | 0,11 m <sup>2</sup>                                                             |
| Electrical class       | I or II                                                                         |
| Ambient temperature    | -40 to +50°C                                                                    |
| Pre-wired              | Including 5 meter mounted H07RN-F cable                                         |

## DRIVERS

|                   |                                                                              |
|-------------------|------------------------------------------------------------------------------|
| Power             | 220 V / 240 V - 50 Hz / 60 Hz / integrated 10 kV overvoltage protection (CM) |
| Brand             | Philips / Tridonic                                                           |
| Power factor      | > 90%                                                                        |
| THD               | < 10% (Full load)                                                            |
| Current           | Constant supply current adjustable from 200mA to 1050mA                      |
| Lifespan Philips  | 10% failure at 100 000 hours                                                 |
| Control Philips   | DALI-2, 1-10V, D4i                                                           |
| Lifespan Tridonic | 5% failure at 100 000 hours                                                  |
| Control Tridonic  | DALI-2, D4i, 1-10V, none                                                     |

## LED SOURCES

|                        |                                           |
|------------------------|-------------------------------------------|
| Sources                | 48x LUXEON 3030 2D square, Rbin           |
| Colour temperature (K) | 2700K, 3000K, 4000K (others upon request) |
| CRI                    | ≥ 70 (others upon request)                |
| Luminaire SDCM         | <5                                        |
| LED lifespan           | L95 > 100 000 h                           |

|                                       |                                          |
|---------------------------------------|------------------------------------------|
| Optics and light distribution options | asymmetric: 60, 61, 63<br>symmetric: L62 |
|---------------------------------------|------------------------------------------|

|              |             |
|--------------|-------------|
| Photobiology | RG1 (4000K) |
|--------------|-------------|

## STANDARD / MARKING / CERTIFICATIONS

|            |                                                   |
|------------|---------------------------------------------------|
| Compliance | <b>CE, marking requirements :</b>                 |
|            | Directive 2014/35/EU, Low voltage Directive       |
|            | Directive 2014/130/EU Electromagnetic Compatibili |
|            | Directive 2011/65/EU (RoHS)                       |
|            | ENEC, ENEC+, ZD4i                                 |



## SMART (options)

|         |   |
|---------|---|
| Dimming | ✓ |
| Zhaga   | ✓ |
| NEMA    | ✓ |

## MECHANICAL INTERFACES

### Top (60 and 76 mm)

48mm possible with optional fill up bus 60-48mm

## MAXIMUM PERFORMANCES

|           | Ekra BIO Without optic, square cup, R-bin |                          |                   |
|-----------|-------------------------------------------|--------------------------|-------------------|
|           | Flux <sup>(A)</sup> at 600 mA (lm)        | Power <sup>(B)</sup> (W) | Efficiency (lm/W) |
| 4000 K    | 2540                                      | 15,5                     | 164               |
| 3000 K ** | 2489                                      | 15,5                     | 161               |
| 2700 K    | 2439                                      | 15,5                     | 157               |

|  |  |  |  |
|--|--|--|--|
|  |  |  |  |
|--|--|--|--|

\*\* (A)maximum output 3956lm at 970mA at (B) 25,7W (without optic)

## possible configurations:

|                |                                             |
|----------------|---------------------------------------------|
| type of shade  | clear or frosted shade                      |
| shape of shade | bowl, cone or inner arc (see picture above) |

## OPTIONAL

|                  |                                      |
|------------------|--------------------------------------|
| External SPD     | 10kV class-3 SPD                     |
| Cover plate      | optional frosted coverplate ledboard |
| DC-grid steering | 176-370Vdc                           |

## MAINTENANCE

see manual

## WARRANTY

5 years