# Orma_QJ

Uplights | 1 arrayLED 5 W DC 24 V | CRI 80
**77300M60**

HC EAC CE ☒ ◇ ◔ ◎ ▥ ◩ Ⅲ C.V. ☒ IK10 IP67 ▫ ◱



-20° +20°

17 | 2
66.5
1000

62 | 74
□85

## Technical data

| | |
|---|---|
| Type | Walk Over |
| Installation position | Floor |
| Installation environment | Outdoor |
| Light Source | LED |
| Circuit structure | arrayLED |
| Optics | Medium Wide Flood |
| Light emission direction | upward |
| Nominal power | 5 W DC |
| Source lumens | 596 lm |
| Input voltage range | 24 V |
| CCT / Tone | 2700 K |
| Colour rendering index | 80 Ra |
| C.C. / C.V. | CV |
| Safety class | 3 |
| IP | IP67 |
| IK | IK10 |
| Glow wire test | 850° |
| Direct mounting on normally flammable surfaces | Yes |
| CE | Yes |
| Driver included | No |
| C.V. - C.C. Converter | Converter 24V included |
| Dimmable article | DALI - 1-10V |
| Directional | No |
| Tilting | Yes |
| total angle (vertical plane) | 40 ° |
| Walk-over | Yes |
| Drive-over | 2000 Kg |
| Cable included | Yes |
| Cable length | 1 m |
| Resin potting | Yes |
| Type of light emission | Single emission |
| Net weight | 0.45 Kg |
| Electrostatic discharge protection | No |
| Surge protection | No |
| Optics technology | Honey comb |
| Product technological characteristics | Acquastop - TVS |

## Finishing casing

| | |
|---|---|
| Material | Die-cast Aluminium EN AB - 46100 |
| Colour | black |
| Processing | Open pore anodizing + Powder Coating |

## Finishing diffuser

| | |
|---|---|
| Material | Extra clear glass - Tempered |
| Colour | transparent |
| Processing | Silk-screening |

## Finishing flange

| | |
|---|---|
| Material | AISI 316 steel |
| Colour | steel |
| Processing | Brushing |

## Electronics

| | | |
|---|---|---|
|  | 89488 | On/Off Driver 190~250V AC / 180~275V DC  15 W (1 - 2 art.) |
|  | 89179 | On/Off Driver 198~264V AC  24 W (1 - 4 art.) |
|  | 89359 | On/Off Driver 198~264V AC / 180~275V DC  48 W (1 - 9 art.) |
|  | 99331 | On/Off Driver 198~264V AC / 176~275V DC  150 W (1 - 30 art.) |
|  | 99660 | DALI - 1-10V Controller 24V DC  216 W (- art.) |
|  | C-E500023 | DALI - 1-10V - Push and Simply Dim Controller 8~53V DC  576 W (- art.) |

## Cables Electrification

| | |
|---|---|
| Cable connector | No |

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Uplights | 1 arrayLED 5 W DC 24 V | CRI 80 | Base
**77300M60**

Single emission uplights for outdoor application. The super warm white LED light source with a medium wide flood light distribution is composed of 1 arrayled LEDs with CCT of 2700 K and a CRI 80; the source luminous flux is 596 lm, with a 119.2 lm/W nominal luminous efficacy.

The device body is made of die-cast aluminium en ab - 46100 and features a black finish, processed by means of open pore anodizing + powder coating; the diffuser is made of extra clear glass - tempered with a silk-screening treatment. The ingress protection degree is IP67; the total weight is of 0.45 kg.

The total absorbed power is 5 W. The power supply cable is included and features a 1 m length.

The device features protection class III and can be floor-mounted with an outer casing, code 83411(for concrete or masonry).

Compliant with the EN 60598-1 standard and its specific provisions.

## Energy efficiency class

This product contains a light source of energy efficiency class F.

## Illuminotechnical Features

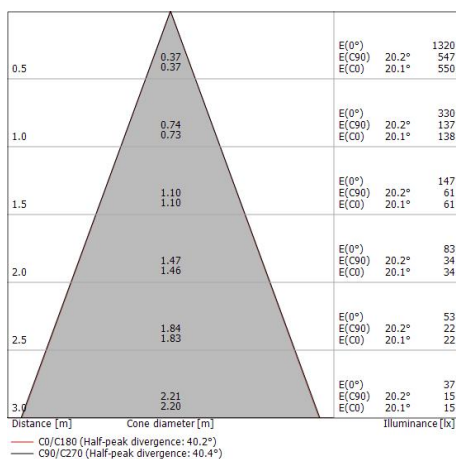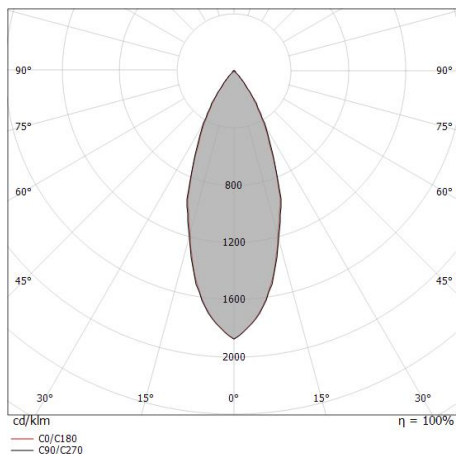| | |
|---|---|
| Light Output Ratio (LOR) | 29 % |
| Source lumens | 596 lm |
| Delivered lumens | 176 lm |
| Consumption | 5 W |
| Luminaire efficacy | 35 lm/W |
| Colour temperature | 2700 K |
| Standard Deviation of Colour Matching | 3 Step MacAdam |
| Colour rendering index | 80 Ra |
| Black Body Locus | On |
| | |
| Standard Operating Ambient Temperature | -20 / +50°C |
| Ordinary temperature on the glass | 50°C |

## LED Life / Failure Ratio

L70 B10 C0 130200h

## UGR

| | |
|---|---|
| UGR axial | 14.2 |
| UGR transversal | 14.1 |
| X=4H | Y=8H | S=0.25H |
| Reflection factor | 70/50/20 |

## OPTICAL

| | |
|---|---|
| C0/C180 optics | 40° |
| Light distribution simmetry | Symmetrical |



cd/klm  η = 100%

—— C0/C180
—— C90/C270



| Distance [m] | Cone diameter [m] | | Illuminance [lx] | |
|---|---|---|---|---|
| 0.5 | 0.37 0.37 | E(0°) E(C90) 20.2° E(C0) 20.1° | 1320 547 550 |
| 1.0 | 0.74 0.73 | E(0°) E(C90) 20.2° E(C0) 20.1° | 330 137 138 |
| 1.5 | 1.10 1.10 | E(0°) E(C90) 20.2° E(C0) 20.1° | 147 61 61 |
| 2.0 | 1.47 1.46 | E(0°) E(C90) 20.2° E(C0) 20.1° | 83 34 34 |
| 2.5 | 1.84 1.83 | E(0°) E(C90) 20.2° E(C0) 20.1° | 53 22 22 |
| 3.0 | 2.21 2.20 | E(0°) E(C90) 20.2° E(C0) 20.1° | 37 15 15 |

—— C0/C180 (Half-peak divergence: 40.2°)
—— C90/C270 (Half-peak divergence: 40.4°)

**COLOR VECTOR GRAPHIC**

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# Orma_QJ

Orma_QJ | Uplights | Accessories
**77300M60**
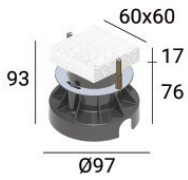
**Outer casing**

installation position: floor, land; type of installation: masonry L=97mm, H=93mm, D=97mm.
Material:ABS Plastic, colour:black.

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