

# ACUS 1.3

ACUS 1.3 13W 40° RGBW 24V PWM

Cod: **ACU05PCL000Z00**



#### IdroSkud® protection system

- polarity reversal protection
- voltage spikes protection
- water infiltration protection



#### Protection class III

Designed to be supplied from a separated extra-low voltage (SELV) power supply



#### IP 66

Protected against powerful power jets, 100 liters per minute



#### IP 67

Protected against temporary immersion (30 minutes) up to 1 meter



#### IK 10

Protected against impact of 20 J



#### High temperatures

Design to withstand temperatures up to +50° C



#### Driver-over

Fixture design to withstand a static load up to 20 kN



#### CX - Extreme

corrosion resistance level ISO 9223



#### RGBW luminaire

Light source allows to mix colours controlling four channels



**Mizar warranty**  
5 years warranty



## Technical description

Inground luminaire, drive-over, suitable for outdoor environments (IP66/IP67), with operating temperature range: -20°C / +50°C. To reduce weight and ensure corrosion resistance, the body is made of aluminum and the round frame of steel. The light source is a multi-chip LED RGBW powered by constant voltage 24V, for maximum power of 13W. The high luminous flux makes it ideal for marking pedestrian and driveway paths or illuminating facades and architectural details thanks to the optics with color-mixing TIR lens. The LED source is recessed for greater visual comfort. Acus is equipped with IdroSkud® system to protect electronic components from voltage spikes, polarity reversal and water infiltration. There are optionals for anti-glare (honeycomb) and installation accessories (drive-over outercase). The product must be combined with a power supply to ensure its operation. The power supply must be ordered separately. The amount of luminaires that can be connected to a single power supply varies depending on the type of installation. It is up to the installer to verify the possible voltage drop by evaluating the distance between the product

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and the power supply.

## Lighting data

|                             |                |                      |                 |
|-----------------------------|----------------|----------------------|-----------------|
| Source type                 | multi-chip LED | Beam angle           | 40°             |
| CCT                         | RGBW (4000K)   | Photobiological risk | RG0             |
| CRI                         | > 80           | ULR                  | 100.00%         |
| MacAdam (SDCM)              | 3              | BUG Rating           | B0 U4 G0        |
| Source lumen output (lm)    | 1040           | CIE Flux Code        | 0 0 0 0 100     |
| Luminaire lumen output (lm) | 546            | LED lifetime         | L80 B10 50.000h |
| Light emission              | Wide           |                      |                 |

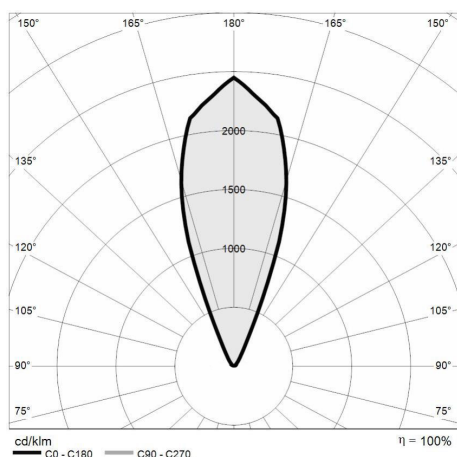
## Mechanical data

|                         |                                       |                             |                        |
|-------------------------|---------------------------------------|-----------------------------|------------------------|
| Diameter (mm)           | 140                                   | Class ISO 9223              | CX                     |
| Height (mm)             | 62                                    | Optic type                  | Technopolymer TIR Lens |
| Weight (g)              | 1240                                  | Optical optional            | None                   |
| IP Rating               | IP66 / IP67                           | Maximal working temperature | +50° C                 |
| IK rating               | IK10                                  | Minimal working temperature | -20° C                 |
| Shape                   | Round                                 | Maximal static load (kN)    | 20                     |
| Finishing colour        | Steel                                 | Walk-over                   | Yes                    |
| Frame material          | Shot peened stainless steel<br>316L   | Driver-over                 | Yes                    |
| Body material           | Anodized aluminum<br>anticorodal 6082 | Maximal surface temperature | +60° C                 |
| Diffuser material       | Extraclear tempered glass             | Areas EN 60598-2-13         | A1 / A2 / A3 / A4      |
| Diffuser thickness (mm) | 12                                    |                             |                        |

## Electrical data

|                                 |                       |                             |                   |
|---------------------------------|-----------------------|-----------------------------|-------------------|
| Nominal power (W)               | 13                    | Electrical connection       | Series connection |
| Power supply (input power type) | Costant voltage - 24V | Idroskud® protection        | Yes               |
| Ballast                         | Remote                | Inverse polarity protection | Yes               |
| Insulation class                | III                   | Voltage spikes protection   | Yes               |
| Dimmable                        | Yes (PWM)             |                             |                   |
| Connector type                  | M12 - 8 poles IP67    |                             |                   |
| Power cable length              | Not pre-wired         |                             |                   |

## Photometry



## Technical drawing



## Accessories



### DRIVE-OVER OUTERCASE

Outercase drive-over ACUS

Cod: ACUZZZ000



### NOT DIMMABLE POWER SUPPLY

Power supply DC 24V 14.4W IP67  
ON/OFF

Cod: MID0019



### NOT DIMMABLE POWER SUPPLY

Power supply DC 24V 36W IP67 ON/OFF

Cod: MID0020



### DIMMABLE POWER SUPPLY

Power supply 220/240 50/60Hz 24V  
24W IP67 DALI

Cod: MID0021



### RGBW CONTROL UNIT

Control unit WT5 5-channel RGBW  
PWM/WiFi

Cod: MID0023



### NOT DIMMABLE POWER SUPPLY

Power supply DC 24V 70W 2.9A IP67

Cod: MID0028



### NOT DIMMABLE POWER SUPPLY

Power supply DC 24V 150W 6.25A IP67

Cod: MID0029



### DIMMABLE POWER SUPPLY

Power supply DC 24V 120W 5A IP67  
DALI2/PWM

Cod: MID0030



**DIMMABLE POWER SUPPLY**

Power supply DC 24V 200W 5A IP67

DALI2/PWM

Cod: MID0031