



ACUS 1.0

ACUS 1.0 20W 55° 4000K 500mA LV

Cod: **ACU00FCL300Z00**



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



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 LED C.O.B powered by constant current, max 500mA, for maximum power of 20W. The high luminous flux makes it ideal for marking pedestrian and driveway paths or illuminating facades and architectural details thanks to the optics with TIR lens. The LED source is recessed for greater visual comfort. Color rendering index CRI > 90. 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 louvre) 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 and the power supply.

Lighting data

Source type	COB LED	Photobiological risk	RG0
CCT	4000K	ULR	100.00%
CRI	> 90	BUG Rating	B0 U5 G0
MacAdam (SDCM)	3	CIE Flux Code	0 0 0 0 100
Source lumen output (lm)	2121	LED lifetime	L80 B10 50.000h
Luminaire lumen output (lm)	1612	Efficiency class	This product contains a light source of energy efficiency class (EU2019/2015): F
Light emission	Wide		
Beam angle	55°		

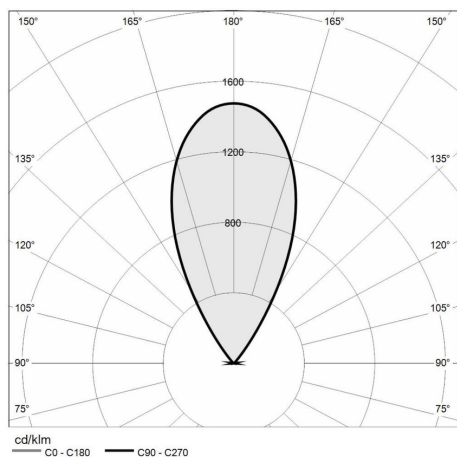
Mechanical data

Diameter (mm)	140	Diffuser thickness (mm)	12
Height (mm)	106	Class ISO 9223	CX
Weight (g)	1325	Optic type	Technopolymer TIR Lens
IP Rating	IP66 / IP67	Optical optional	Louvre
IK rating	IK10	Maximal working temperature	+50° C
Shape	Round	Minimal working temperature	-20° C
Finishing colour	Steel	Maximal static load (kN)	20
Frame material	Shot peened stainless steel 316L	Walk-over	Yes
Body material	Anodized aluminum anticorodal 6082	Driver-over	Yes
External screws material	Stainless steel 316L (A4)	Maximal surface temperature	+60° C
Diffuser material	Extraclear tempered glass	Areas EN 60598-2-13	A1 / A2 / A3 / A4

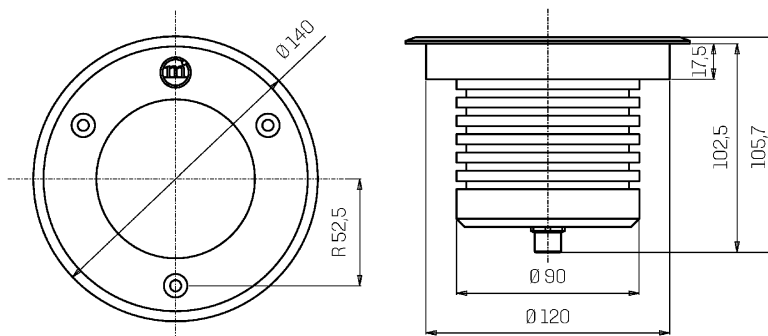
Electrical data

Nominal power (W)	20	Electrical connection	Series connection
Power supply (input power type)	Costant current - 500 mA	Idroskud® protection	Yes
Ballast	Remote	Inverse polarity protection	Yes
Insulation class	III	Voltage spikes protection	Yes
Dimmable	Yes		
Connector type	M12 - 5 poles IP67		
Power cable length	Not pre-wired		

Photometry



Technical drawing



Accessories



DRIVE-OVER OUTERCASE

Outer case drive-over ACUS

Cod: ACUZZZ000



NOT DIMMABLE POWER SUPPLY

POWER SUPPLY DC 5-44V 700MA 30W
MAX

Cod: MID0022



DIMMABLE POWER SUPPLY

POWER SUPPLY DC 10-54V 1.5/38W
150-1050MA IP20 DALI/NFC

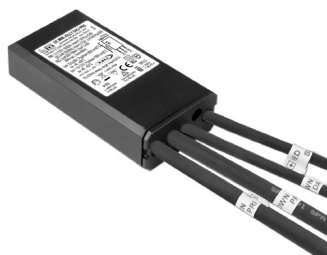
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NOT DIMMABLE POWER SUPPLY

POWER SUPPLY DC 10-50V 15/70W
700MA IP68

Cod: MID0026



DIMMABLE POWER SUPPLY

POWER SUPPLY DC 2-49V 1/30W
250-700MA IP68 DALI

Cod: MID0027