

2013 2014

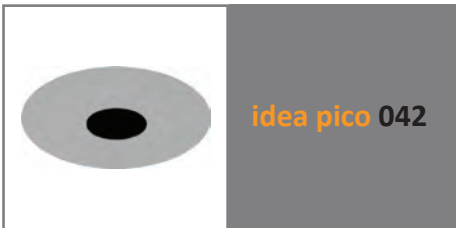
apleton

Papagiannopoulos Bros

apleton

Papagiannopoulos Bros

contents **indoor lighting**



contents indoor lighting



contents outdoor lighting



colours - symbols



EN ISO 9001:2008



Product conformity according to the European directives



Class I
Luminaire that needs earth connection. To the earth are connected all the parts that might be touched and in case of defect cause electrical shock



Class II
Luminaire that does not need earth connection. All the metal parts that might cause electrical shock in case of defect cannot be touched



Class III
Luminaire for low voltage use supplied with a safety transformer



Suitable for direct mounting on normally flammable surfaces



Suitable only for indoor application



Suitable for outdoor application



Adjustment angle



Rotation angle



35°x35° adjustable



.1 white



.2 black



.3 brushed chrome



.4 brushed aluminum



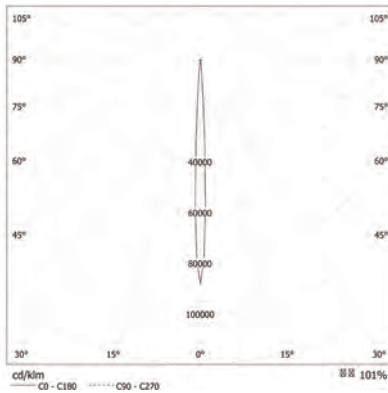
.5 silver grey

IP

The protection degree of luminaire against the penetration of dust, solid bodies and water, as dened in the Standard EN 60598-1, is represented by the initials IP followed by two characteristic digits, and may be represented by graphic symbols.

First Digit	IP rating Syntetic description
0	Not protected
1	Protected against solid objects of = 50mm Ø.
2	Protected against solid objects of = 12mm Ø.
3	Protected against solid objects of = 2,5mm Ø.
4	Protected against solid objects of = 1mm Ø.
5	Protected against harmful dust ingress. (Dust Protected)
6	Totally protected against any entry of dust. (Dust tight)

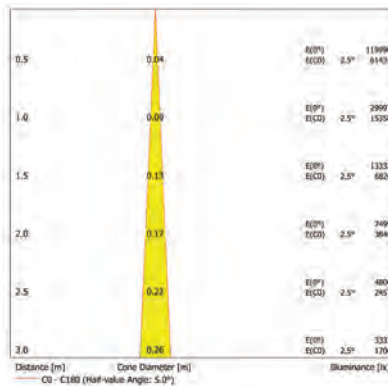
Second Digit	IP rating Syntetic description
0	Not protected.
1	Protected against vertical water droplets.
2	Protected against falling water to a maximum of 15° from the vertical.
3	Protected against rain.
4	Protected against water spryes. (Splash Proof)
5	Protected against water jets. (Jet Proof)
6	Protected against powerful water jets.
7	Protected against the eects of temporary immersion in water.
8	Protected against the eects of permanent submersion in water.



BEAM DIAGRAM

The characteristics of the light beam produced by the combination of luminaire and lamp are shown on the Beam Diagram.

Horizontal planes placed with increasing distances from the light source map the maximum illuminance (E) expressed in Lux. In addition, the diagram shows the diameter expressed in Meters of the section of the horizontal planes and the light cone produced by the source. The boundary of the diameter has an illuminance equal to half of the one measured in the center of the cone.



POLAR DIAGRAM

The shape of the light distribution of the luminaire is represented in the polar diagram. Shown in the form of isometric curves is the Luminous Intensity expressed in Candela per KLumen. The Light distribution is shown in two planes C0-C180 and C90-C270.

The photometric surveys, comply with the UNI 10671 standards.

This rule has the following international prescriptive reference:

- UNI 10380: light-technique- Indoor illumination by means of artificial lights.
- UNI CEI EN 45001- general criterions for the functioning of the testing laboratories.
- CEI 34-21 Luminaires –Part 1: General Prescriptions and tests.
- CEI 34-57 Mains for fluorescent tubular luminaires-General prescriptions and safety norms.
- ISO TAG 4 Helping guide in case of doubts in the measurements.
- Racc. CIE24 Photometry of indoor luminaires with fluorescent lamps.
- Racc. CIE27 Photometry of street luminaires.
- Racc. CIE34 Photometric details, classification and performance details relevant to the luminaires and to the installation in the streets.
- Racc. CIE43 Photometry of floodlights.
- Racc. CIE50 International dictionary of electrical engineering: Illumination.
- Racc. CIE52 Application method for the calculation of the indoor illumination.
- Racc. CIE69 Qualification method for the measurers of the illumination and the luminance.
- Racc. CIE121 photometric of the luminaires.

Series of false-ceiling recessed downlights, that can be fixed, adjustable and water resistant (IP44). It is made of die-cast aluminum. It comes in two ring pieces that are tightly placed together with the use of a magnet. This protects the plasterboard during re-lamping since the outer ring remains stable on the ceiling. The adjustable version offers 360 degrees rotation on the horizontal axis. The lamp is placed deep in order to ensure minimum glare. It can house honeycomb louvre. It comes with 12V MR16 socket for halogen and led lamps.

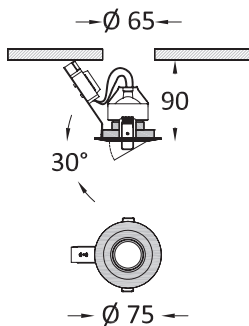




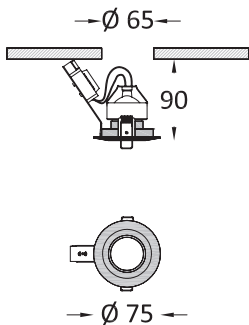
.1 white



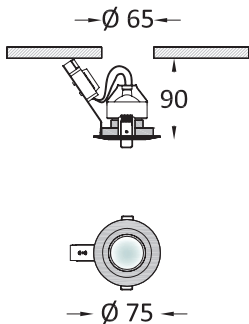
.3 brushed chrome



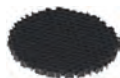
aria		V	W	TYPE	BASE
73-001701	die-cast aluminum	12	35	QR-CB 35	GU4
IP20	CE				



aria		V	W	TYPE	BASE
73-001702	die-cast aluminum	12	35	QR-CB 35	GU4
IP20	CE				

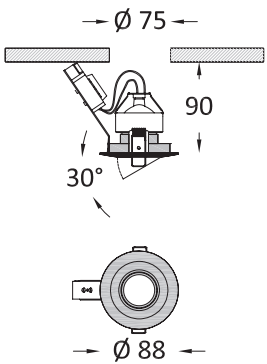





aria		V	W	TYPE	BASE
73-001703	die-cast aluminum	12	35	QR-CB 35	GU4
IP44	CE				

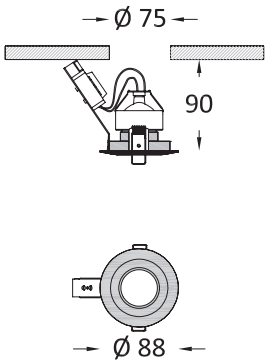





accessories					
21-99002	honeycomb louvre				

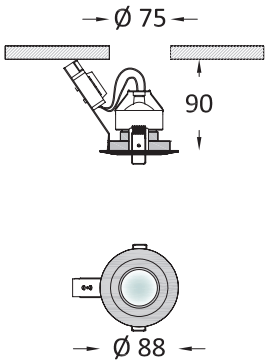
aria		V	W	TYPE	BASE
73-001801	die-cast aluminum	12	50	QR-CB 51	GU5.3
<div>IP20</div>	<div>CE</div>	<div></div>	<div></div>	<div></div>	<div><div><div>30°</div><div></div></div><div><div>360°</div><div></div></div></div>



aria		V	W	TYPE	BASE
73-001802	die-cast aluminum	12	50	QR-CB 51	GU5.3
<div>IP20</div>	<div>CE</div>	<div></div>	<div></div>	<div></div>	



aria		V	W	TYPE	BASE
73-001803	die-cast aluminum	12	50	QR-CB 51	GU5.3
<div>IP44</div>	<div>CE</div>	<div></div>	<div></div>	<div></div>	



accessories

21-99001 honeycomb louvre





aria



.1 white

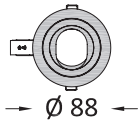
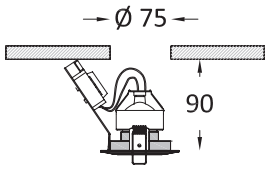


.3 brushed chrome

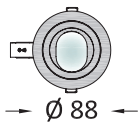
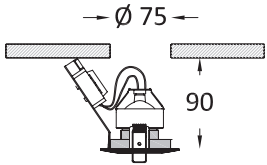











☐ .1 white



aria		V	W	TYPE	BASE
73-001804	die-cast aluminum	12	50	QR-CB 51	GU5.3
<div>IP20</div>	<div>CE</div>	<div></div>	<div></div>	<div></div>	<div><div>45°</div><div>360°</div></div>



aria		V	W	TYPE	BASE	
73-001805	die-cast aluminum	12	50	QR-CB 51	GU5.3	
						

accessories



21-99001	honeycomb louvre
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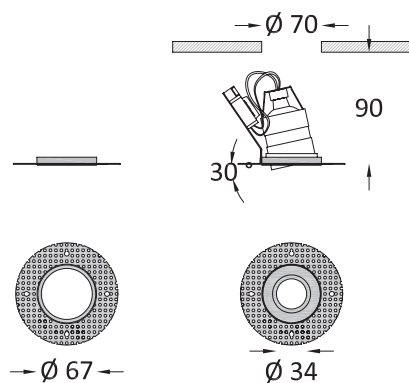
aria trimless

Series of false-ceiling frameless recessed downlights with the minimum possible depth required. It comes in fixed, adjustable and water resistant versions (IP44). It is made of die-cast aluminum and comes in two parts with separate codes. The metal box is first installed in the false-ceiling and putty covered and painted over. Then the inner part is tightly placed in the box with the use of a magnet. This protects the plasterboard during re-lamping since the box remains stable on the ceiling. The adjustable version offers 360 degrees rotation on the horizontal axis. The inner part comes in different versions and codes. The lamp is placed deep enough to ensure minimum glare. It can house honeycomb louvre. It comes with 12V MR16 socket for halogen and led lamps.





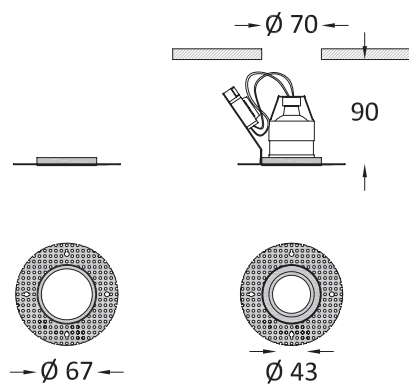
.1 white



aria trimless box

73-102000 metal

aria trimless kit		V	W	TYPE	BASE
73-000801	die-cast aluminum	12	50	QR-CB 51	GU5.3



aria trimless kit

73-000802	die-cast aluminum	12	50	QR-CB 51	GU5.3
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accessories



21-99001 honeycomb louvre

aria trimless

aria trimless box

73-102000 metal

aria trimless kit

		V	W	TYPE	BASE
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73-000803	die-cast aluminum	12	50	QR-CB 51	GU5.3
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aria trimless kit

		V	W	TYPE	BASE
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73-000804	die-cast aluminum	12	50	QR-CB 51	GU5.3
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aria trimless kit

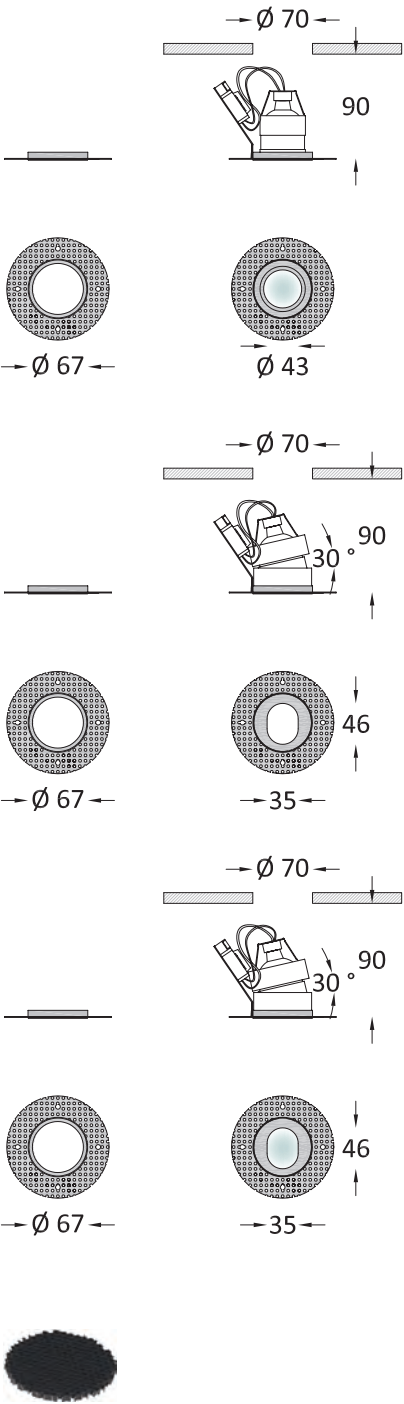
		V	W	TYPE	BASE
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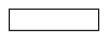
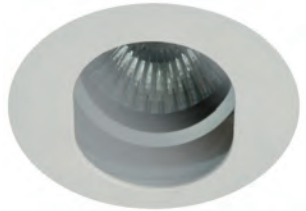
73-000805	die-cast aluminum	12	50	QR-CB 51	GU5.3
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accessories

21-99001 honeycomb louvre





.1 white



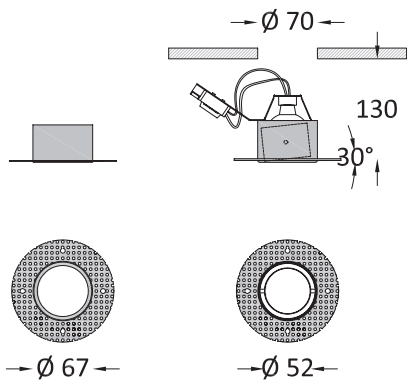
Series of false-ceiling frameless recessed downlights, that can be fixed, adjustable and water resistant (IP44). It is made of die-cast aluminum and comes in two parts with separate codes. The metal box is first installed in the false-ceiling and putty covered and painted over. Then the inner part is tightly placed in the box with the use of a magnet. This protects the plasterboard during re-lamping since the box remains stable on the ceiling. The adjustable version offers 360 degrees rotation on the horizontal axis. The idea inner part comes in different versions and codes. The lamp is placed deep in order to ensure minimum glare. It can house honeycomb louvre. It comes with 12V MR16 socket for halogen and led lamps.





 .1 white

 .2 black



idea box

73-102001 metal

idea kit

73-000911 die-cast aluminum 12 50 QR-CB 51 GU5.3



idea kit

73-000801 die-cast aluminum 12 50 QR-CB 51 GU5.3



accessories

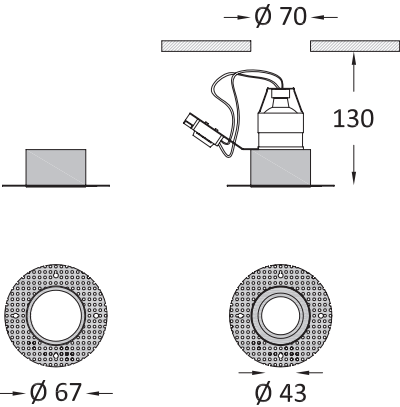


21-99001 honeycomb louvre

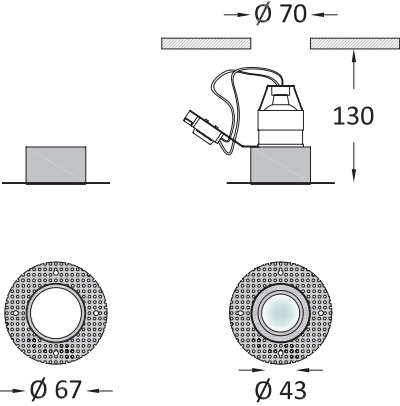
idea box

73-102001 metal

idea kit		V	W	TYPE	BASE
73-000802	die-cast aluminum	12	50	QR-CB 51	GU5.3



idea kit		V	W	TYPE	BASE
73-000803	die-cast aluminum	12	50	QR-CB 51	GU5.3



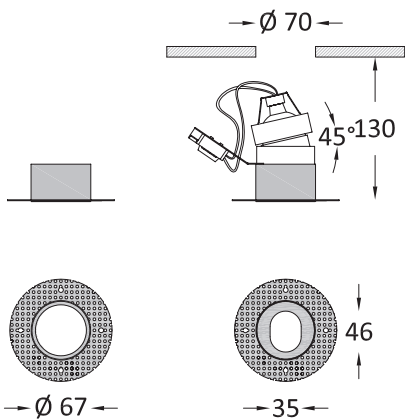
accessories

21-99001 honeycomb louvre







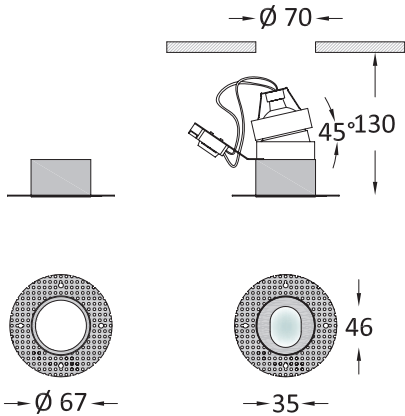


idea box

73-102001 metal

idea kit

73-000804 die-cast aluminum 12 50 QR-CB 51 GU5.3



idea kit

73-000805 die-cast aluminum 12 50 QR-CB 51 GU5.3



accessories



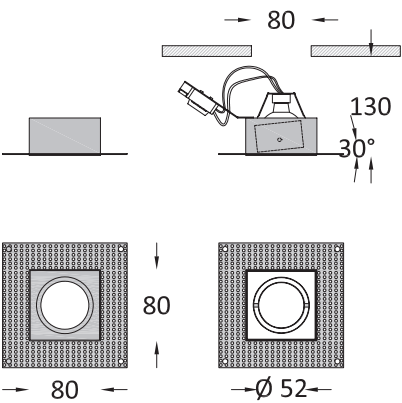
21-99001 honeycomb louvre

idea box

73-102010 metal

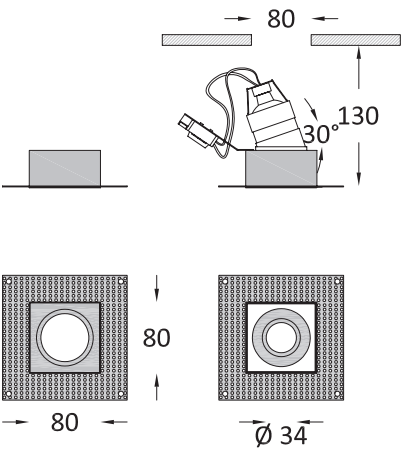
idea kit		V	W	TYPE	BASE
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73-000911	die-cast aluminum	12	50	QR-CB 51	GU5.3
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idea kit		V	W	TYPE	BASE
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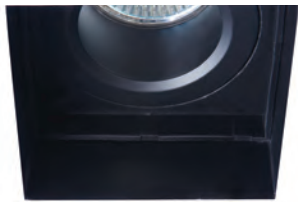
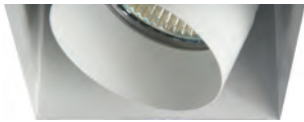
73-000801	die-cast aluminum	12	50	QR-CB 51	GU5.3
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accessories

21-99001 honeycomb louvre

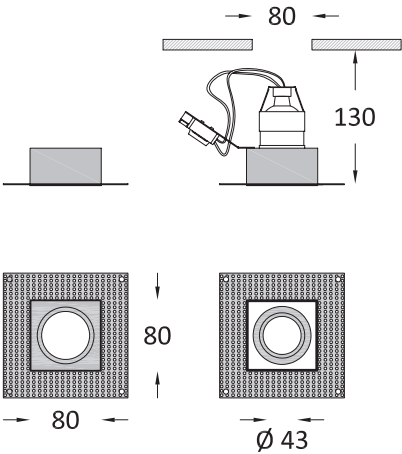




- ☐ .1 white
- ☐ .2 black





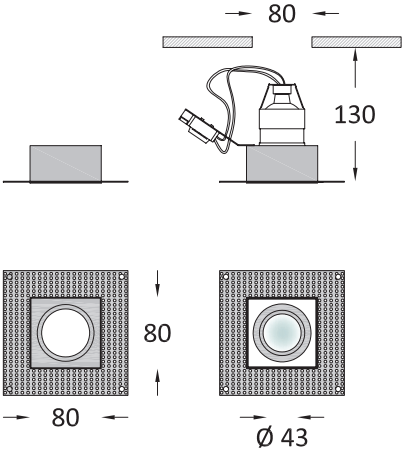


idea box

73-102010 metal

idea kit

73-000802 die-cast aluminum V W TYPE BASE



idea kit

73-000803 die-cast aluminum V W TYPE BASE



accessories

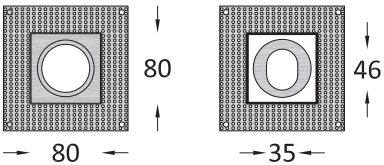
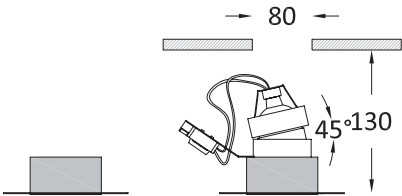


21-99001 honeycomb louvre

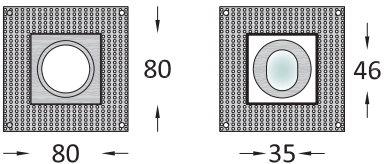
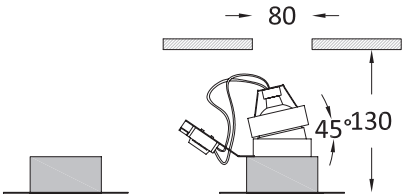
idea box

73-102010 metal

idea kit		V	W	TYPE	BASE
73-000804	die-cast aluminum	12	50	QR-CB 51	GU5.3



idea kit		V	W	TYPE	BASE
73-000805	die-cast aluminum	12	50	QR-CB 51	GU5.3



accessories

21-99001 honeycomb louvre



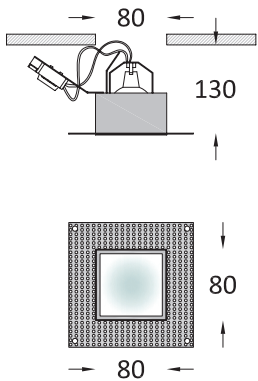


idea



.1 white





idea box

73-102005 metal

idea kit		V	W	TYPE	BASE
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73-000905	die-cast aluminum	12	50	QR-CB 51	GU5.3
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accessories

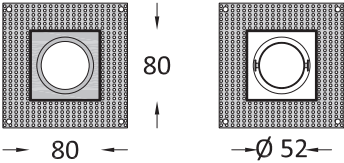
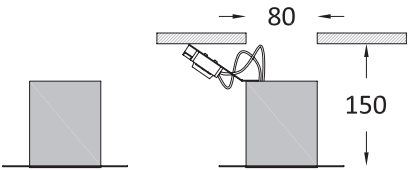
73-000901 frosted glass cover

idea box

73-102015 metal

idea kit		V	W	TYPE	BASE
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73-000915	die-cast aluminum	12	50	QR-CB 51	GU5.3
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accessories

21-99001 honeycomb louvre



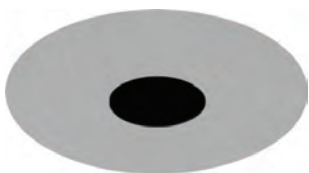


.1 white

Special version of lamp kit for the idea series. It is made of die-cast aluminum and is filled with plaster. It is housed in the round idea box and they get together putty covered and painted over. After that, pico leaves open a tiny black hole in the false-ceiling, through which the light is emitted. The lamp is housed deep inside over the end of the black hole and offers a totally anti-glare spotting effect. The pico kit is available with 12V MR11 socket for halogen and led lamps.

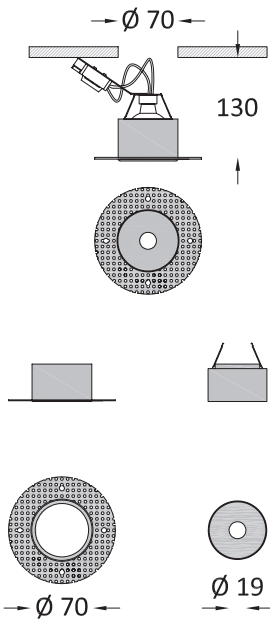


idea pico



.1 white





idea pico box

73-102001 metal

idea pico kit

	V	W	TYPE	BASE
10-000806 die-cast aluminum/plaster	12	35	QR-CB 35	GU4

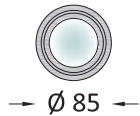
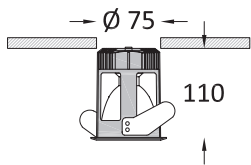


Series of false-ceiling recessed downlights. It is made of die-cast aluminum. It comes in round shape, with a clear glass and a pure anodized aluminum reflector that offers uniform and anti-glare light effect. It comes in round version and is adjustable. It has got a practical installation system that leaves the plasterboard ceiling harm-free. It is available with 12V sockets for halogen and led lamps.





.1 white

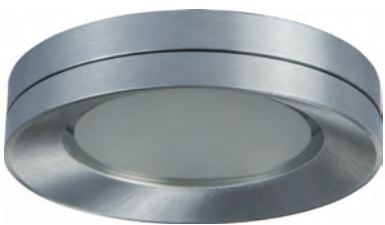



zero		V	W	TYPE	BASE
83-100800	die-cast aluminum	12	50	QR-CB 51	GU5.3
IP20	CE				

Series of false-ceiling recessed downlights. It is made of anodized brushed aluminum. It comes in round fixed version with a sandblasted glass cover. The lamp is placed deep inside the fixture. It is waterproof (IP44) with use of silicon gaskets. It is available with 12V socket for halogen and led lamps.

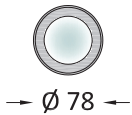
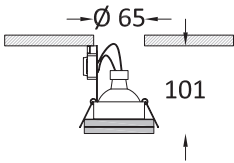


oro



 .4 brushed aluminum





oro		V	W	TYPE	BASE
52-00021	die-cast aluminum	12	50	QR-CB 51	GU5.3
IP44	CE				

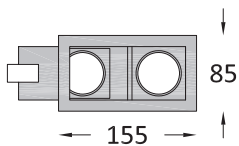
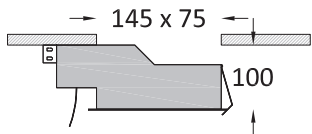
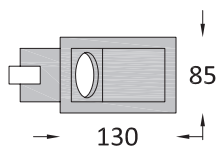
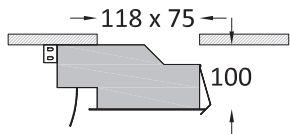
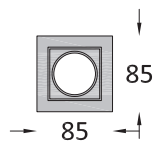
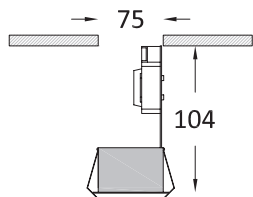


Series of false-ceiling recessed adjustable square downlights. It is made of die-cast aluminum. It comes in onelamp and twolamp versions. It is adjustable on the vertical axis. The lamp is placed deep inside the fixture, in order to ensure minimum glare. It comes with 12V MR16 socket for halogen and led lamps.





 .5 silver grey



elle		V	W	TYPE	BASE
52-00314	die-cast aluminum	12	50	QR-CB 51	GU5.3
IP20	CE				

elle		V	W	TYPE	BASE
52-00318	die-cast aluminum	12	50	QR-CB 51	GU5.3
IP20	CE				

elle		V	W	TYPE	BASE
52-00320	die-cast aluminum	12	2x50	QR-CB 51	GU5.3
IP20	CE				

Series of false-ceiling frameless recessed adjustable downlights. It comes in single, double and triple spot versions. It is made of a metal body and comes in two parts with separate order codes. The box is first installed in the false-ceiling and putty covered and painted over. Then the inner part is tightly placed in the box with the use of screws. This protects the plasterboard during re-lamping since the box remains stable on the ceiling. The lamp is placed deep in order to ensure minimum glare. It can house honeycomb louvre and smooth covers. It comes with 12V MR16 socket for halogen and led lamps.



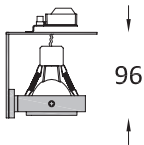
astro



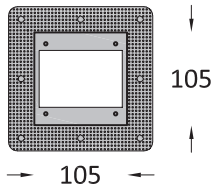
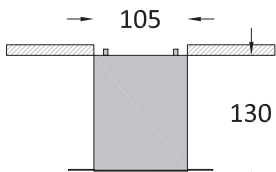
.1 white

.2 black





astro kit		V	W	TYPE	BASE
52-153201	die-cast aluminum	12	50	QR-CB 51	GU5.3



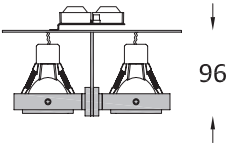
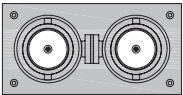
astro box	
52-153101	metal



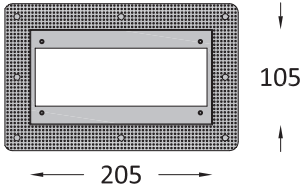
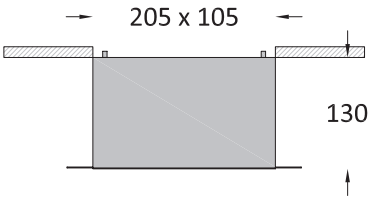
accessories

52-153900	snooth
21- 99001	honeycomb louvre

astro kit		V	W	TYPE	BASE
52-153202	die-cast aluminum	12	2x50	QR-CB 51	GU5.3
IP20	CE				



astro box	
52-153102	metal



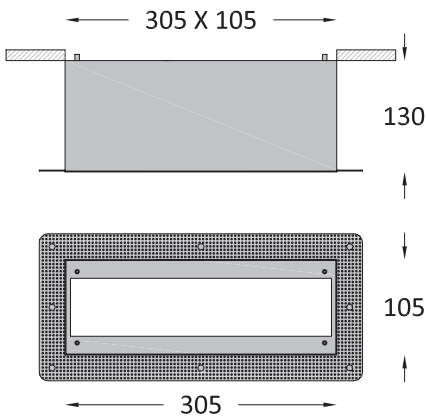
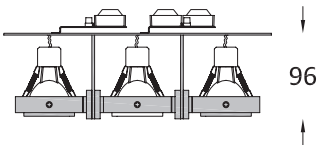
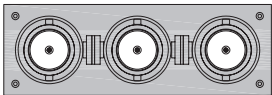
accessories

52-153900	snooth
21- 99001	honeycomb louvre

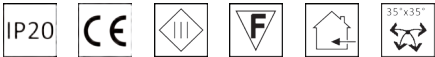








astro kit		V	W	TYPE	BASE
52-153203	die-cast aluminum	12	3x50	QR-CB 51	GU5.3



astro box	
52-153103	metal

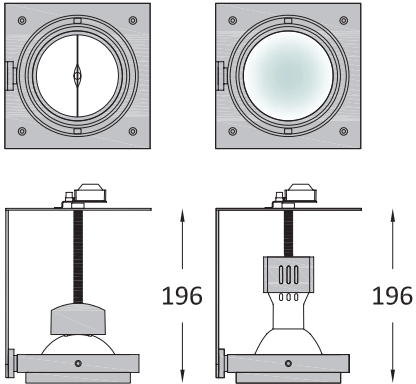
accessories

52-153900	smooth
21- 99001	honeycomb louvre

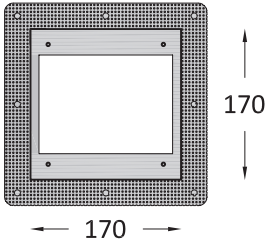
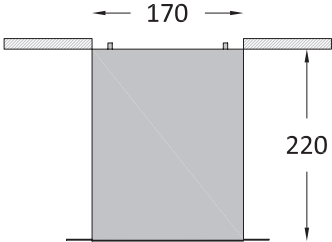
astro kit		V	W	TYPE	BASE
52-001078	die-cast aluminum	12	100	AR 111	G53
52-004028	die-cast aluminum	230	70	HIT	G12

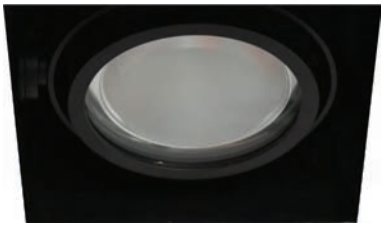
IP20

CE



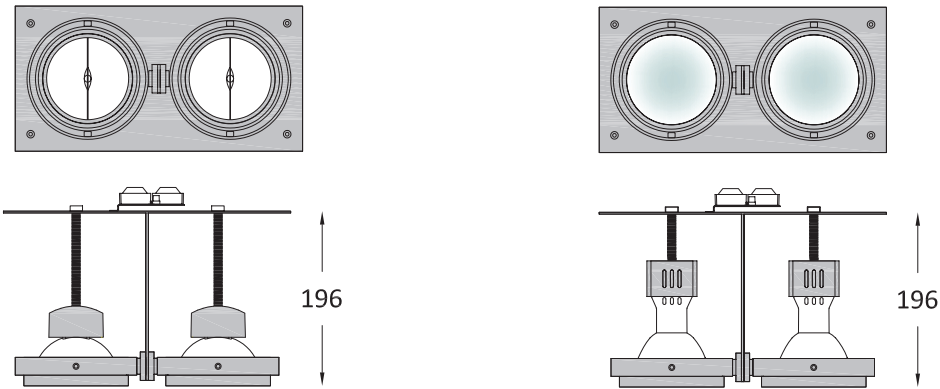
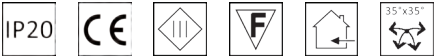
astro box	
52-003501	metal



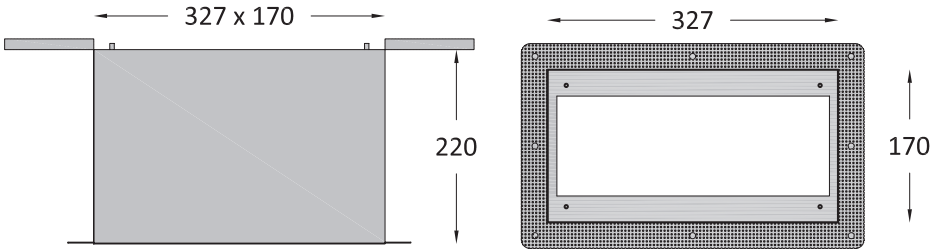


.2 black

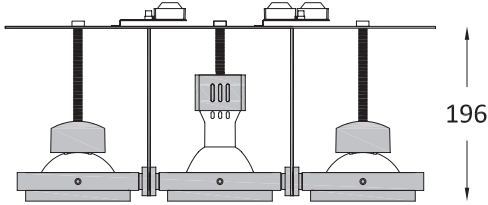
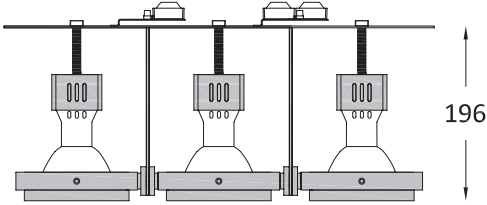
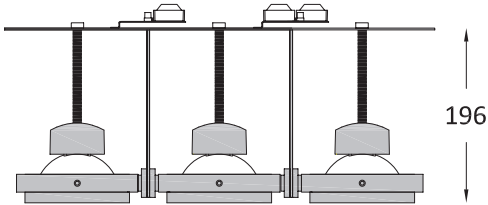
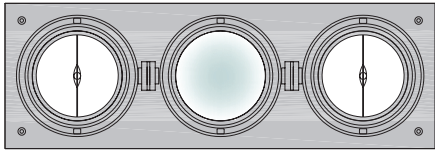
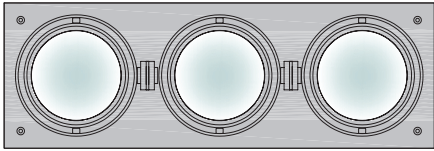
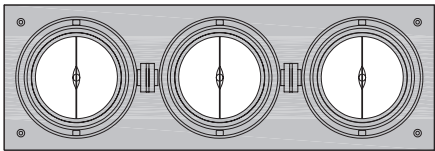
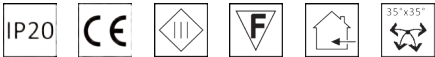
astro kit		V	W	TYPE	BASE
52-001088	die-cast aluminum	12	2x100	AR 111	G53
52-004029	die-cast aluminum	230	2x70	HIT	G12



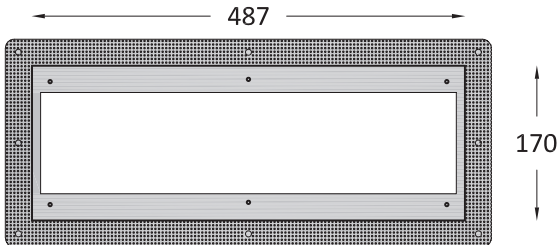
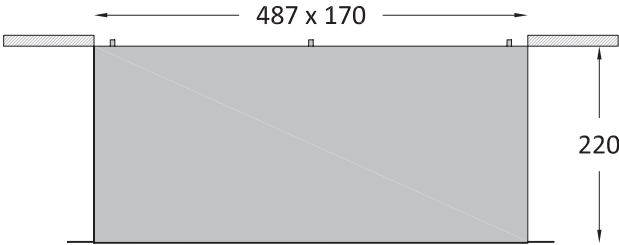
astro box	
52-003502	metal



astro kit		V	W	TYPE	BASE
52-001098	die-cast aluminum	12	3x100	AR 111	G53
52-004030	die-cast aluminum	230	3x70	HIT	G12
52-007015	die-cast aluminum	12	2x100	AR 111	G53
		230	1x70	HIT	G12



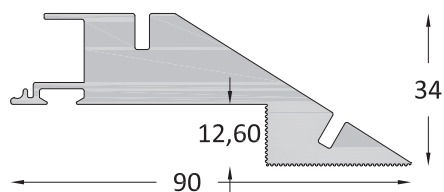
astro box	
52-003503	metal



Series of recessed linear alcoves in the false-ceiling. It is made of aluminum in 3 meters length and can be cut and used in customized lengths. Its dimensions and shape is such designed, in order to be mounted on the false-ceiling with use of screws and then it is filled with putty, so that the final effect looks like a cove inside the ceiling. On the upper side of the alcove, there can be adjustable spotlights and linear fittings adjusted. On the back of the alcove system there can also be linear led/fluorescent lamps mounted, so that indirect light can be emitted downwards. Alcove is not electrically powered but it can be provided with lighting fittings for 230V / 12V halogen, fluorescent and led lamps.







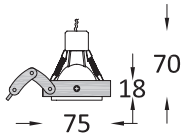
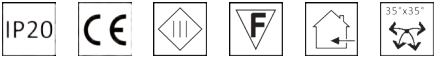
alcove new profile		
10-530203	aluminum	3000mm

accessories

10-530001	pair of ends 75mm
10-530002	pair of ends 150mm
10-530020	external corner join
10-530021	internal corner join
10-530025	pair of linear joints
10-530026	pair of angular joints



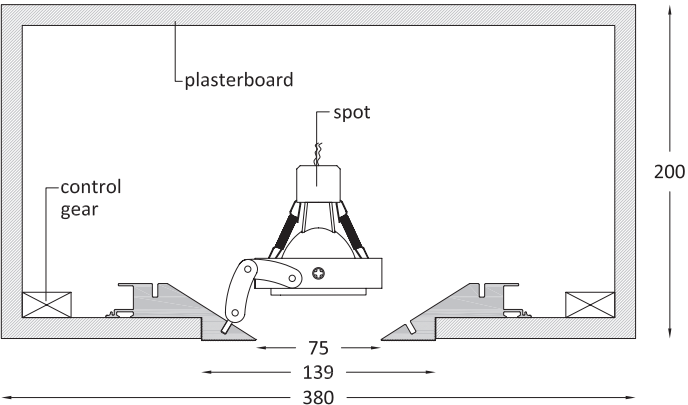
alcove new kit	V	W	TYPE	BASE
10-533201	12	50	QR-CB 51	GU5.3

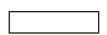


accessories

52-153900 snooth

21- 99001 honeycomb louvre

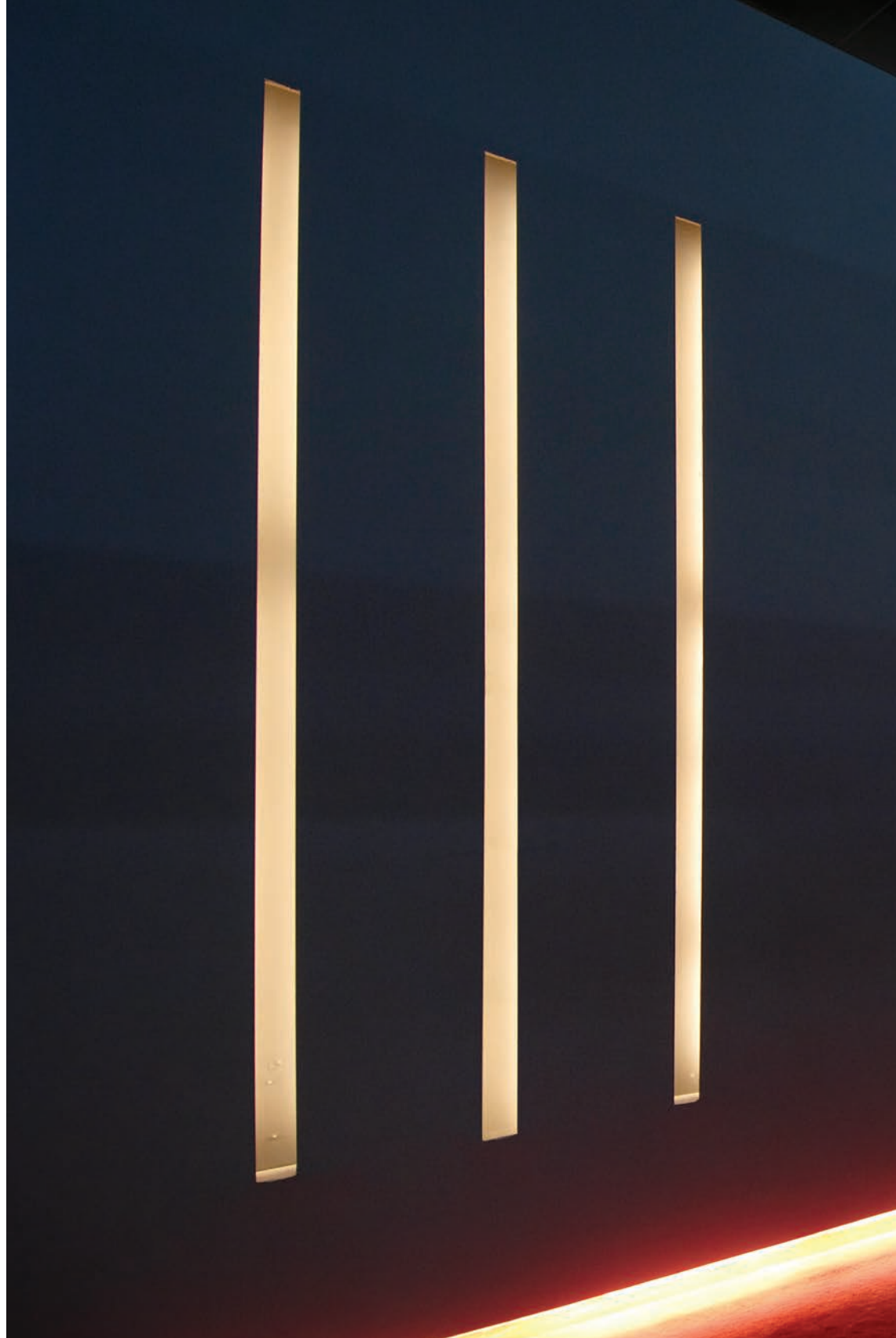




.1 white



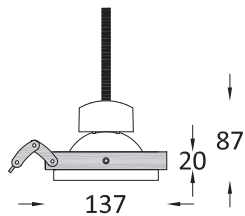
.2 black



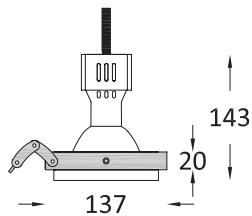
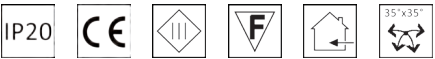


 .1 white

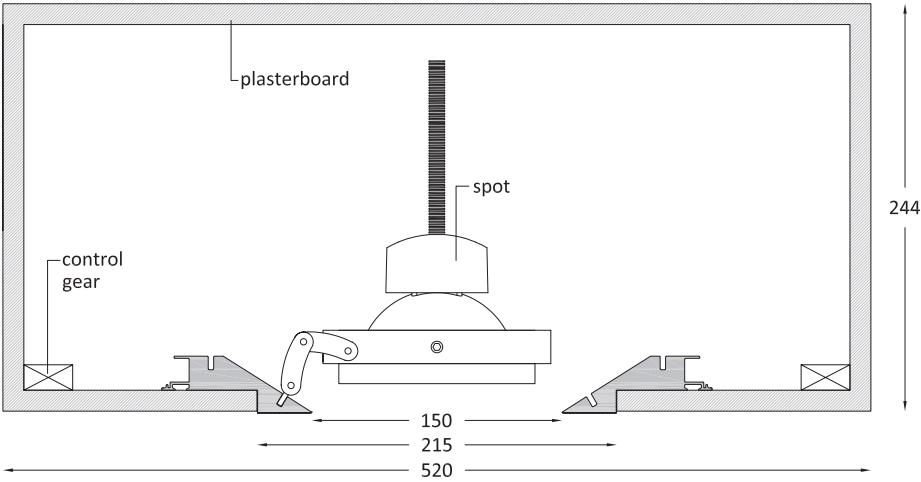
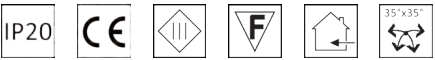
 .2 black



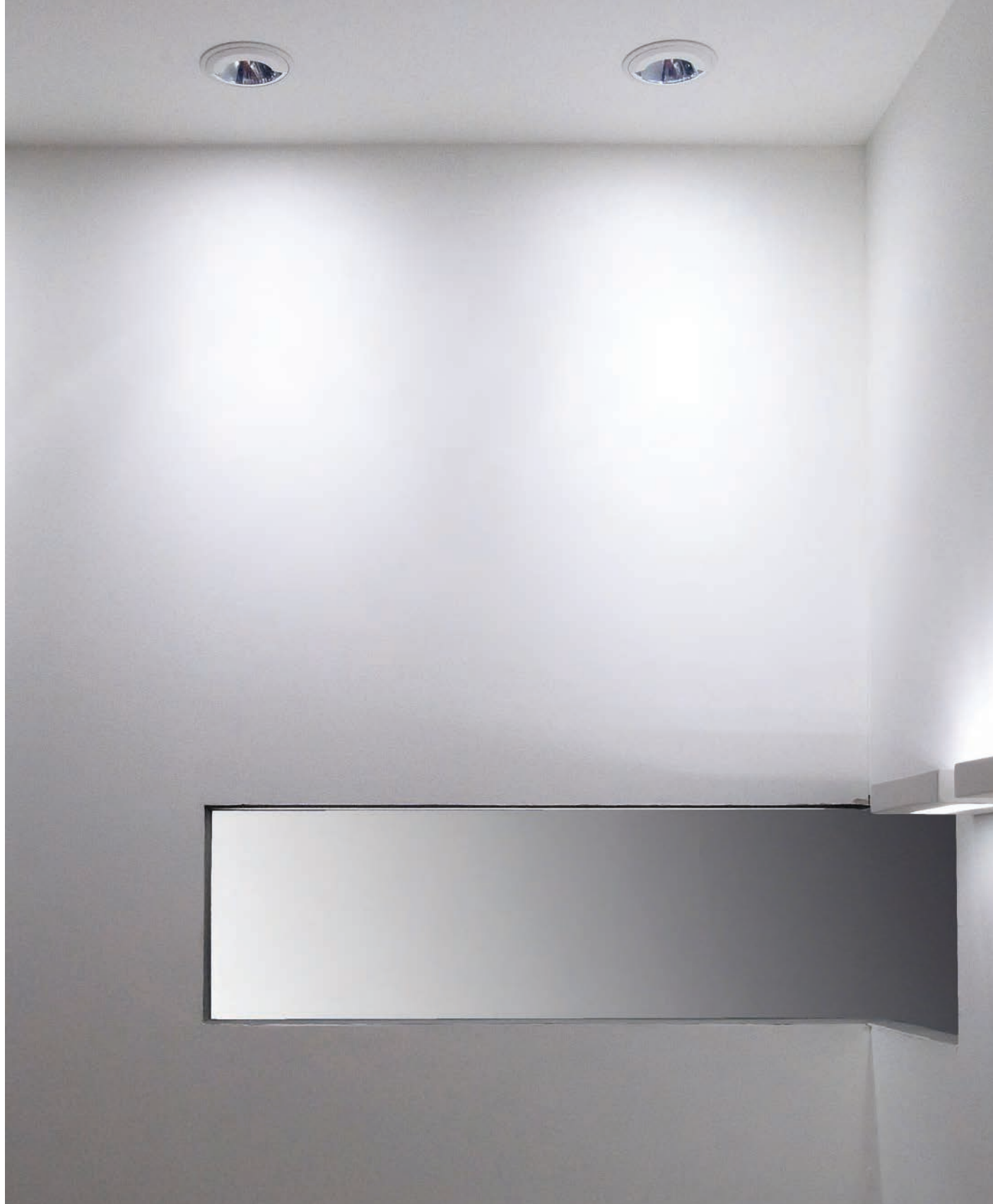
alcove new kit	V	W	TYPE	BASE
10-531078	12	100	AR111	G53



alcove new kit	V	W	TYPE	BASE
10-534028	230	100	HIT	G12

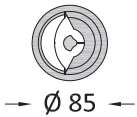
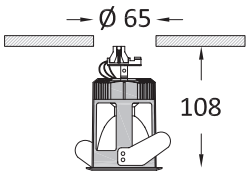


Series of false-ceiling recessed wall washers. It is made of steel/aluminum body, with a die-cast aluminum cover and a pure aluminum wall-washing reflector. The housing minimizes the light leakage in the ceiling and guarantees problem-free installation and easy maintenance. It has an effective aluminum heatsink installed on the housing. The reflector optics covers the lamp for antiglare effect and provides even and uniform light effect, horizontally and vertically on the wall. It is available with 12V GY6,35 and 230V G8,5/G12 sockets for halogen and metal halide lamps.

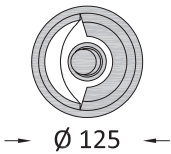
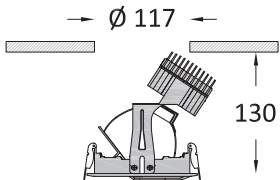
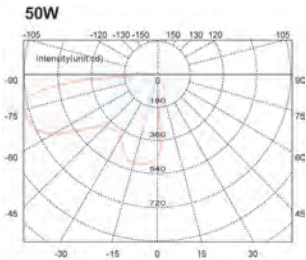




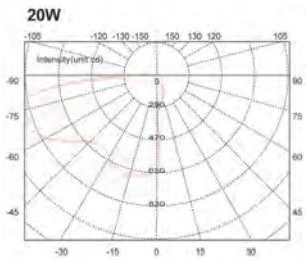
.1 white



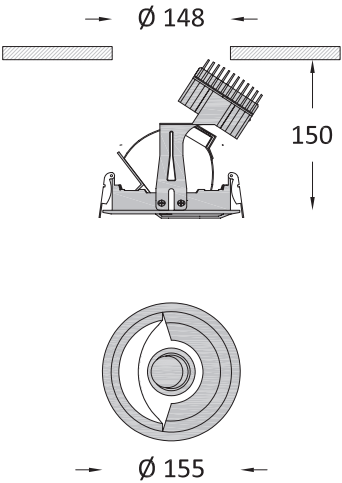
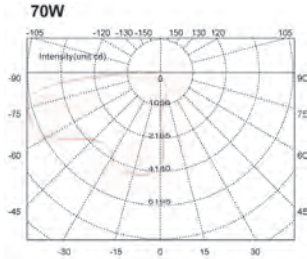
esso		V	W	TYPE	BASE
83-160660	die-cast aluminum	12	75	QT12	GY6.35
IP20	CE				



esso		V	W	TYPE	BASE
83-160770	die-cast aluminum	230	35/70	HIT	G8.5
IP20	CE				



esso		V	W	TYPE	BASE
83-160880	die-cast aluminum	230	70/150	HIT	G12



esso control gear

- 10-93035 electronic gear for metal halide 35W
- 10-93070 electronic gear for metal halide 70W
- 10-93150 electronic gear for metal halide 150W



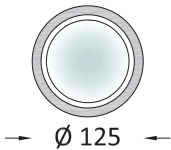
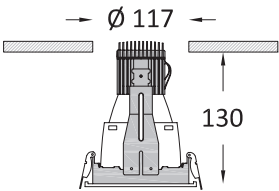
Series of false-ceiling recessed lighting fixtures. It is made of steel and die-cast aluminum. It has got round shape. It comes in fixed and adjustable versions of three-diameter sizes. Its body is made of steel and metal and has got an integrated heat-sink, in order to minimize the heat on the back of the lighting fixture and thus expand its lifetime. It comes with a practical lock system for installation (no screws), which makes the maintenance of the fixture very easy and safe (no harm of the plasterboard ceiling). Opsi comes with pure 99,8% anodized aluminum reflectors of different beam angles, which create a bright, uniform and anti-glare light effect. It is available with various 12V and 230V sockets for halogen, compact fluorescent, metal halide and led lamps.



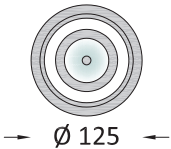
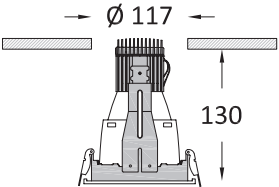


 .1 white

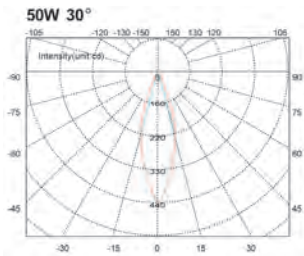




opsis		DEGREE	V	W	TYPE	BASE
83-201212	die-cast aluminum	30°	230	20/35	CDM-TM	PGJ5

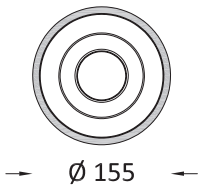
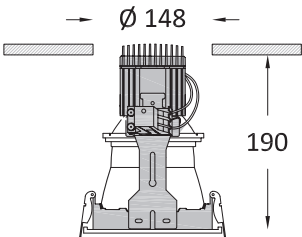
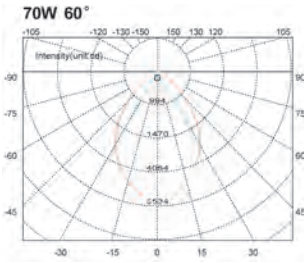


opsis		DEGREE	V	W	TYPE	BASE
83-201240	die-cast aluminum	30°	12	90	QT12	GY6.35



opsis		DEGREE	V	W	TYPE	BASE
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83-211514	die-cast aluminum	60°	230	35/70	HIT	G8.5
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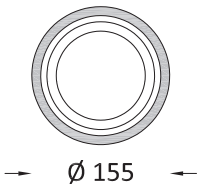
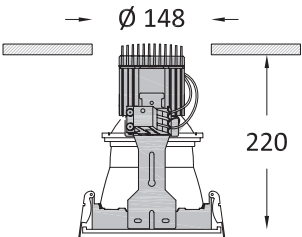
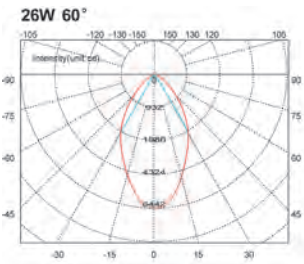
opsis		V	W	TYPE	BASE
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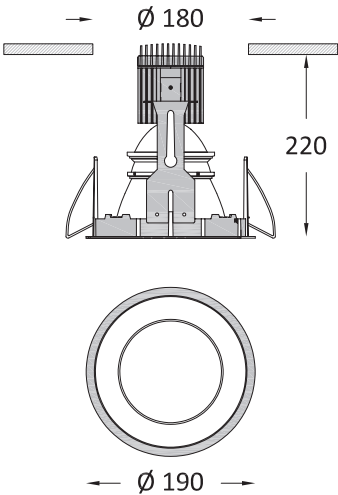
83-211516	die-cast aluminum	12	100	AR111	G53
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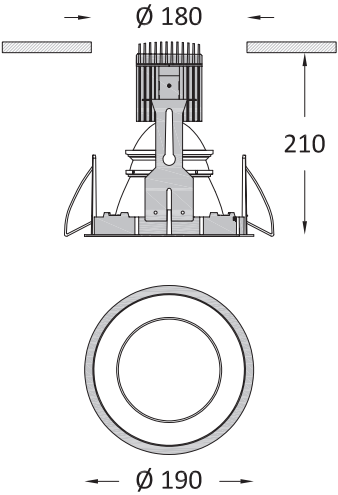
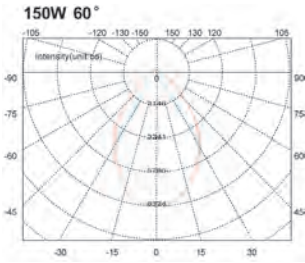
opsis		V	W	TYPE	BASE
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83-231500	die-cast aluminum	230	18/26/32/42	TC-TE	GX24q
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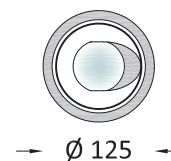
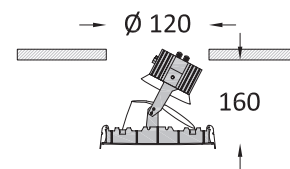
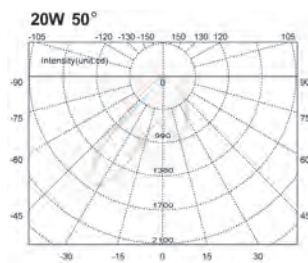
opsis		DEGREE	V	W	TYPE	BASE
83-251904	die-cast aluminum	60°	230	70/150	HIT	G12



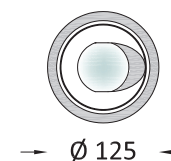
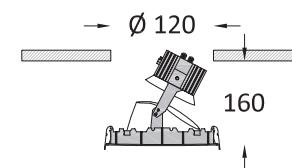
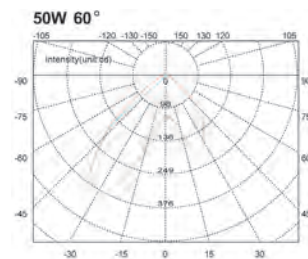
opsis		V	W	TYPE	BASE
83-251920	die-cast aluminum	230	35/70	HCI-R111	GX8.5

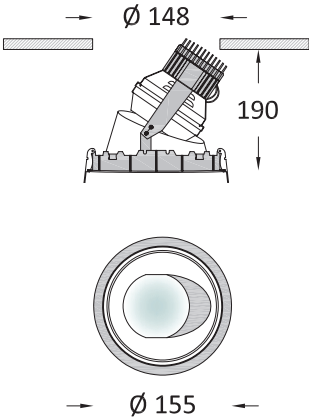


opsis		DEGREE	V	W	TYPE	BASE
83-281202	die-cast aluminum	50°	230	20/35	CDM-TM	PGJ5

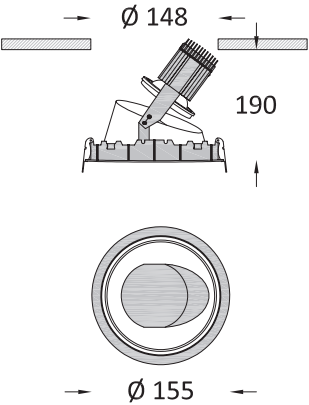
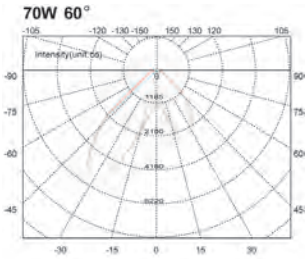


opsis		DEGREE	V	W	TYPE	BASE
83-281213	die-cast aluminum	60°	12	75	QT12	GY6.35





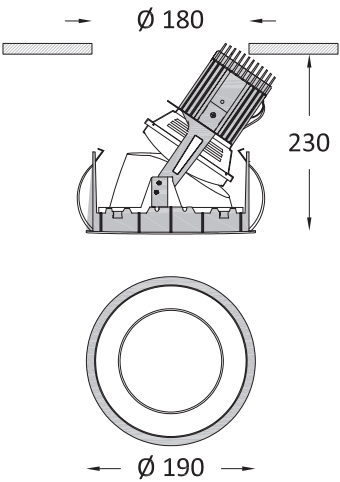
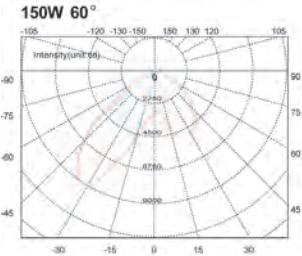
opsis		DEGREE	V	W	TYPE	BASE
83-291513	die-cast aluminum	60°	230	35/70	HIT	G8.5



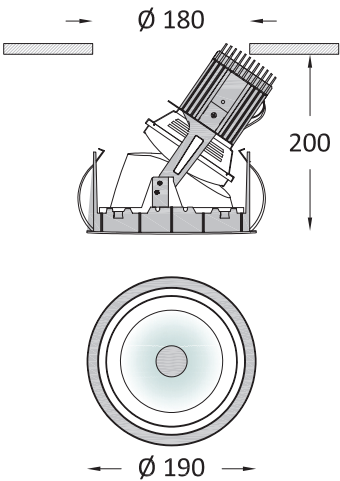
opsis		V	W	TYPE	BASE
83-291530	die-cast aluminum	12	100	AR111	G53

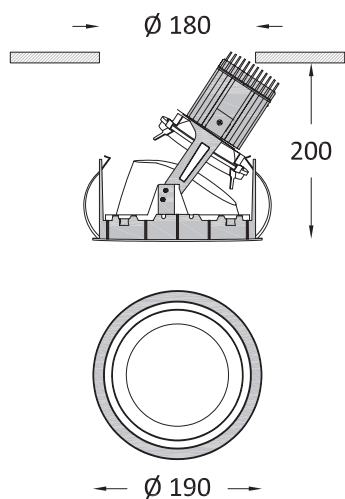


opsis		DEGREE	V	W	TYPE	BASE
83-311904	die-cast aluminum	60°	230	70/150	HIT	G12



opsis		V	W	TYPE	BASE
83-311920	die-cast aluminum	230	35/70	HCI-R111	GX8.5





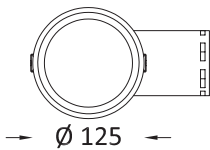
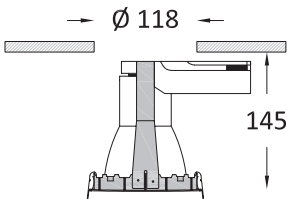
opsis		V	W	TYPE	BASE
83-311930	die-cast aluminum	12	100	AR111	G53
IP20	CE				

opsis control gear	
10-93020	electronic gear for metal halide 20W
10-93035	electronic gear for metal halide 35W
10-93070	electronic gear for metal halide 70W
10-93150	electronic gear for metal halide 150W
10-9411018	electronic ballast for TC-DE/TE 1x18W
10-9511018	electronic dimmable ballast for TC-DE/TE 1x18W
10-9412642	electronic ballast for TC-DE/TE 1x26/32/42W
10-9512642	electronic dimmable ballast for TC-DE/TE 1x26/32/42W

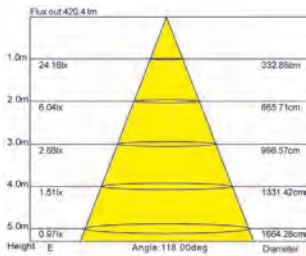
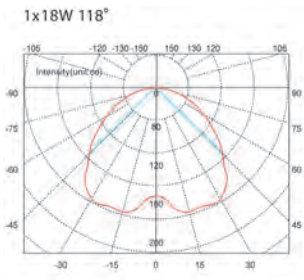
Series of false-ceiling recessed downlights. It is made of die-cast aluminum. It comes in round versions with one vertically housed lamp. Its reflector is 99,98% pure anodized and offers a uniform widespread light effect with anti-glare protection. It comes with a practical lock system for installation, which makes the maintenance easy and harm-free for the plasterboard ceiling. It is available with one 230V socket for compact fluorescent lamp.







soho		DEGREE	V	W	TYPE	BASE
83-561200	die-cast aluminum	118°	230	18	TC-TE	GX24q-2



soho control gear	
10-9411118	electronic ballast for TC-DE/TE 1x18W

Series of false-ceiling recessed downlights. It is made of steel/aluminum body and die-cast aluminum round/square bezel cover. Its shape minimizes light leakage from the housing. Its high quality material functions as a very effective heat sink. It comes complete with a secure installation clip system for easy and safe installation and maintenance, with a pure anodized aluminum reflector and with the lamp sockets. It can also be available with safety IP-protection glass (clear or sandblasted). It is available with or without the ballast for 230V fluorescent lamps or led lamps.



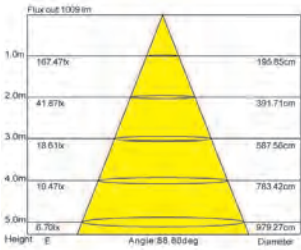
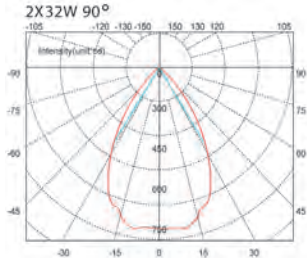
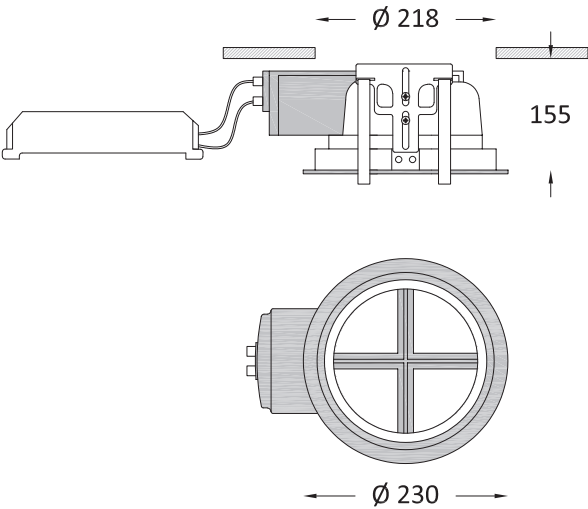
emporio



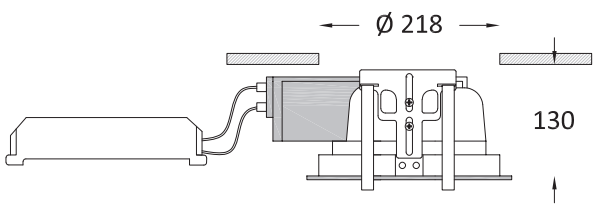
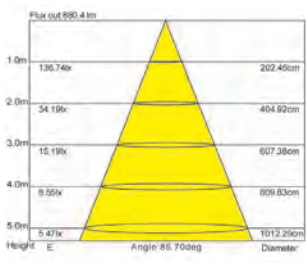
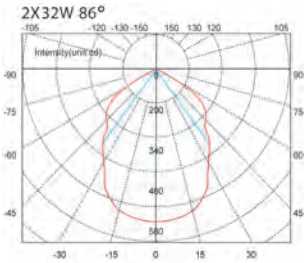
.1 white



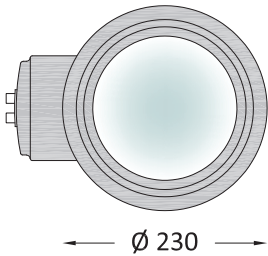
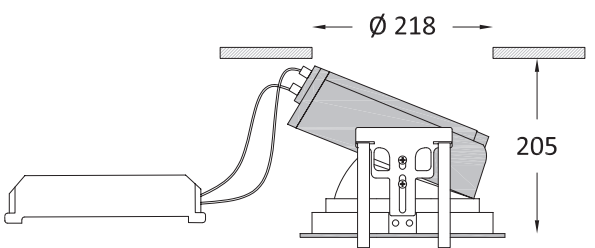
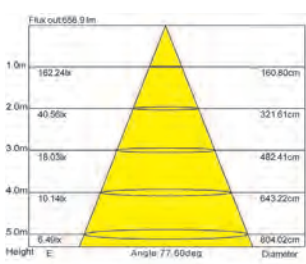
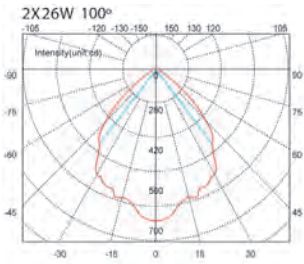
emporio		DEGREE	V	W	TYPE	BASE
83-502304	die-cast aluminum	90°	230	2x18/26/ 32/42	TC-TE	GX24q

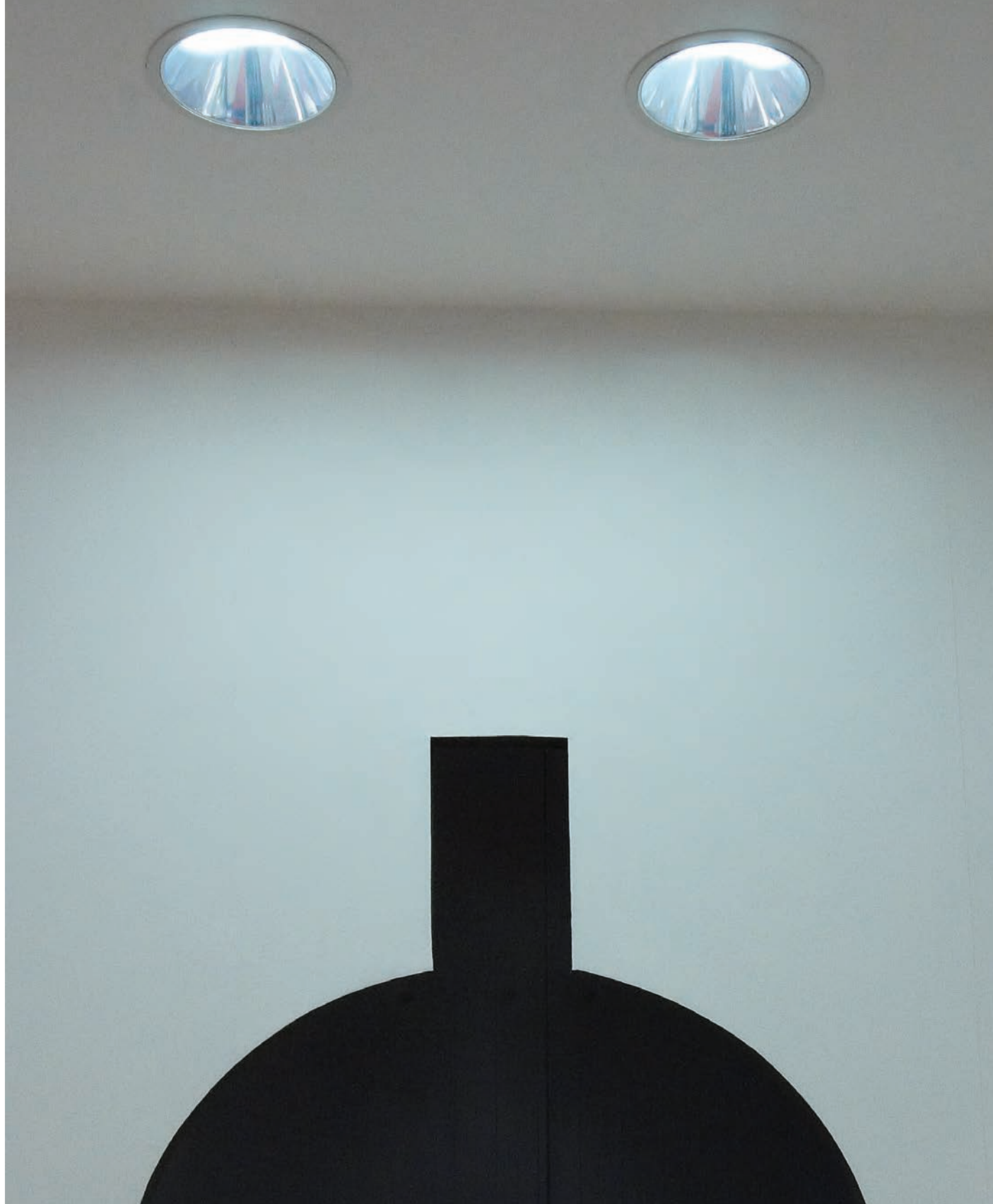


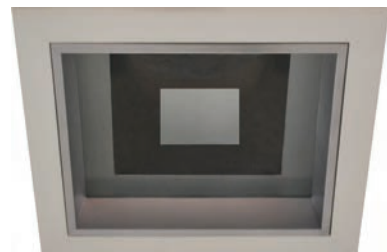
emporio		DEGREE	V	W	TYPE	BASE
83-502310	die-cast aluminum	86°	230	2x18/26/ 32/42	TC-TE	GX24q

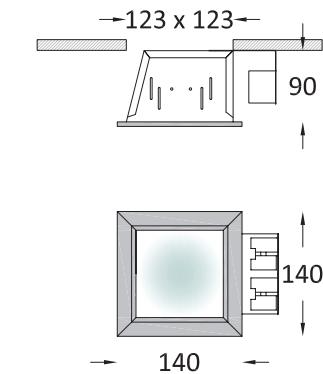


emporio		DEGREE	V	W	TYPE	BASE
83-512300	die-cast aluminum	100°	230	2x18/26/ 32/42	TC-TE	GX24q

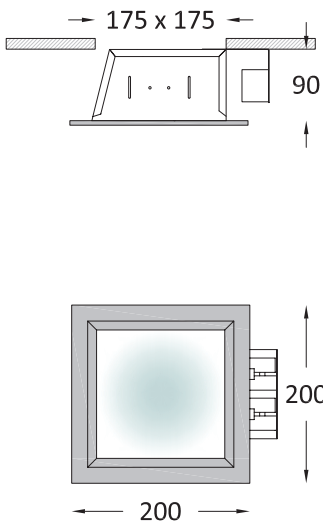
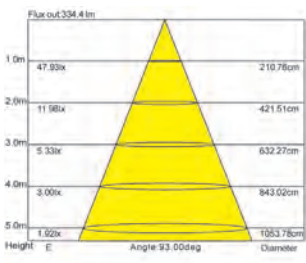
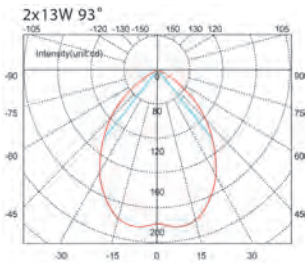




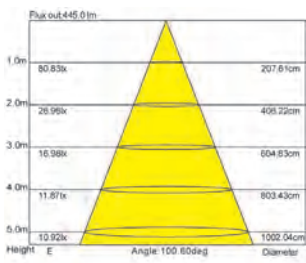
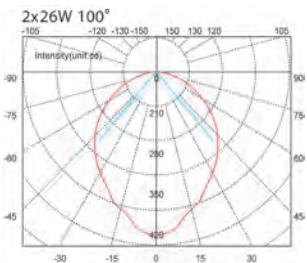




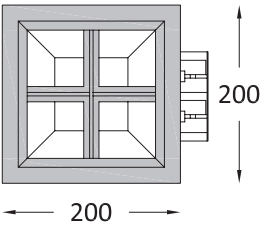
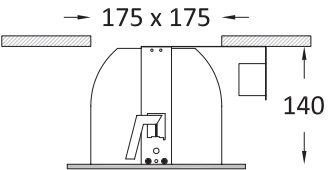
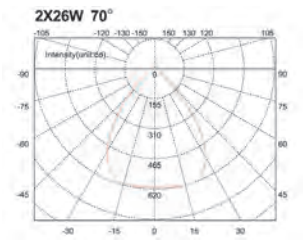
emporio		DEGREE	V	W	TYPE	BASE
83-530140	die-cast aluminum	93°	230	2x13	TC-TE	GX24q-1



emporio		DEGREE	V	W	TYPE	BASE
83-530200	die-cast aluminum	100°	230	2x18/26	TC-TE	GX24q



emporio		DEGREE	V	W	TYPE	BASE
83-540200	die-cast aluminum	70°	230	2x26	TC-TE	GX24q-3



emporio control gear

- 10-9421013 electronic ballast for TC-DE/TE 2x13W
- 10-9521013 electronic dimmable ballast for TC-DE/TE 2x13W
- 10-9421018 electronic ballast for TC-DE/TE 2x18W
- 10-9521018 electronic dimmable ballast for TC-DE/TE 2x18W
- 10-9422642 electronic ballast for TC-DE/TE 2x26/32/42W
- 10-9522642 electronic dimmable ballast for TC-DE/TE 2x26/32/42W



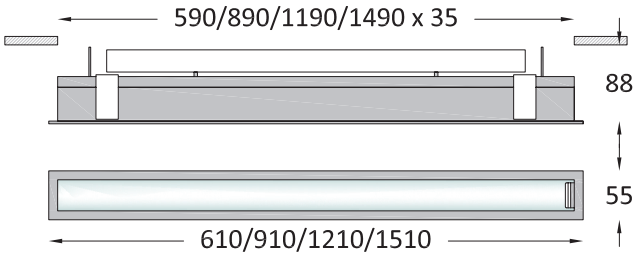
Series of false-ceiling recessed and wall mounted lighting fixtures. It is made of anodized brushed aluminum with polycarbonate frosted cover. It comes in linear recessed and square wall / ceiling mounted versions and is available with integrated ballasts, dimmable on request. The square version comes with frosted cover for diffused widespread light. It is available with 230V 2G11 socket for two TC-L compact fluorescent lamps. The recessed version comes in four different lengths, which can be connected in linear mode without shady parts (with use of seamless lamps). It is available with 230V G5 socket for T5 fluorescent lamps.



linea



linea			V	W	TYPE	BASE
52-603153	aluminum	610mm	230	14	T5	G5
52-603154	aluminum	910mm	230	21	T5	G5
52-603155	aluminum	1210mm	230	28	T5	G5
52-603156	aluminum	1510mm	230	35	T5	G5



linea		V	W	TYPE	BASE
52-603212	aluminum	230	2x24	TC-L	2G11

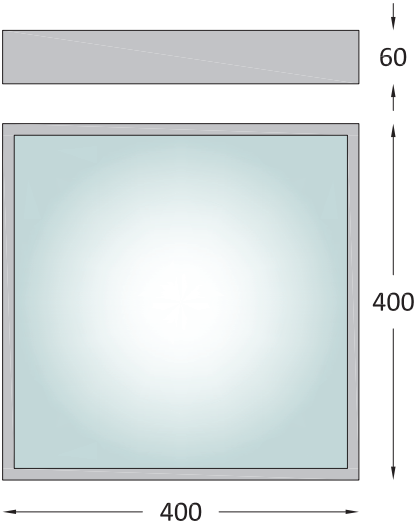
IP20

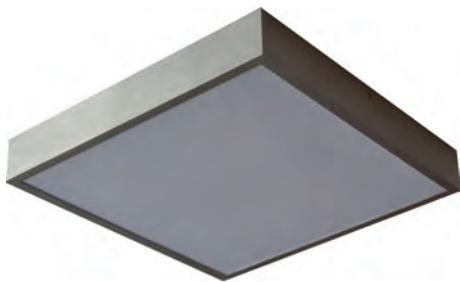
CE









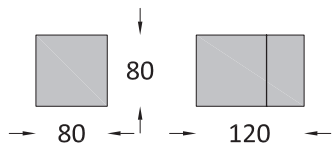


Series of wall / ceiling mounted lighting fixtures. It is made of brushed aluminum. It comes in two size versions. It is available with 230V GU10 and G9 socket for halogen or led lamps. It comes with accessory aluminum and glass covers.





.4 brushed aluminum

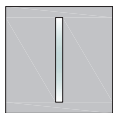
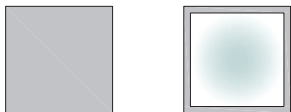
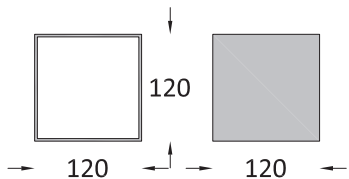


kivo		V	W	TYPE	BASE
52-04102	aluminum	230	40	H-PIN	G9



accessories

52-04902	frosted glass cover
52-04906	1 beam cover
52-04908	closed cover

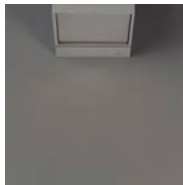
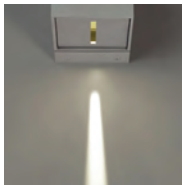
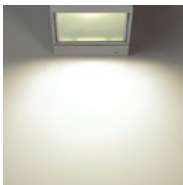


kivo		V	W	TYPE	BASE
52-04202	aluminum	230	60	H-PIN	G9

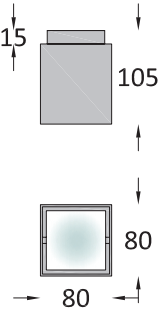


accessories

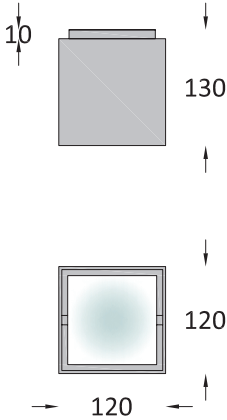
52-04901	frosted glass cover
52-04905	1 beam cover
52-04907	closed cover



kivo		V	W	TYPE	BASE
52-00107	aluminum	230	35	PAR 16	GU10
IP20	CE				



kivo		V	W	TYPE	BASE
52-00105	aluminum	230	50	PAR 16	GU10
IP20	CE				






.4 brushed aluminum

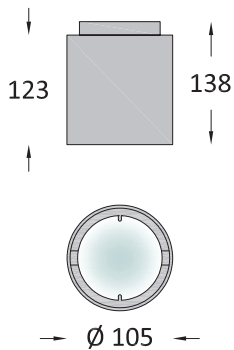


Series of ceiling mounted downlights. It is made of die-cast aluminum with sandblasted glass cover. It is IP20 protected. It comes in two round versions of brushed aluminum body. The glass cover offers widespread light. It is available with 230V GU10 socket for halogen, compact fluorescent and led lamps.

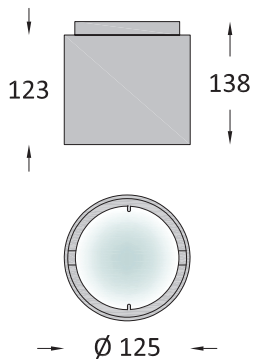




 .4 brushed aluminum



lupo		V	W	TYPE	BASE
52-05206	aluminum	230	50	PAR 16	GU10
IP20	CE				

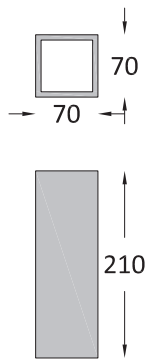





lupo		V	W	TYPE	BASE
52-05208	aluminum	230	50	PAR 16	GU10
IP20	CE				




Series of wall mounted, wall recessed and false-ceiling recessed lighting fixtures. It is made of high quality plaster in different shapes. The recessed versions are frameless and come with a frosted glass cover. The wall mounted versions have got up or up-down wall-washing light emission. It can be painted in any plastic color, creating splendid widespread light effect. It is available with 230V sockets for halogen, compact fluorescent and led lamps.

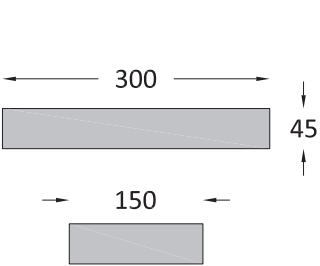






gypso		V	W	TYPE	BASE
19-048418	plaster	230	2x60	H-PIN	G9
IP20	CE				

gypso		V	W	TYPE	BASE
19-048382	plaster	230	2x75	H-PIN	G9
IP20	CE				



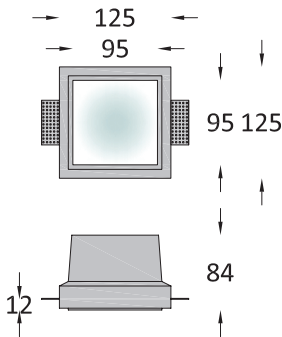


gypso

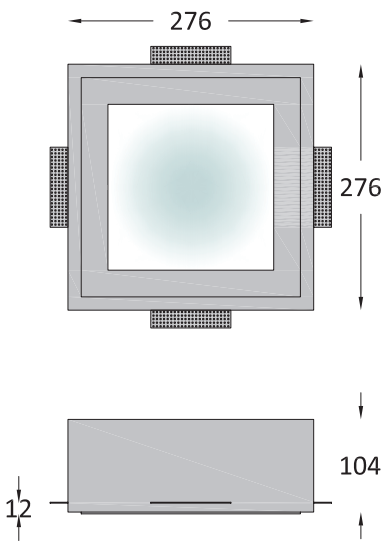




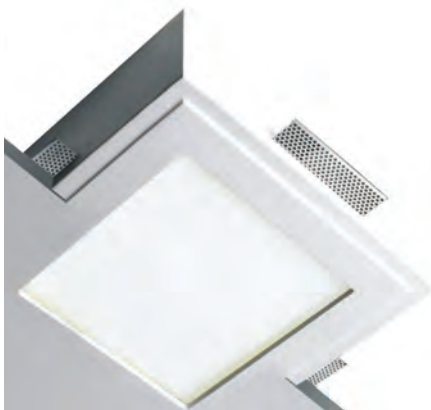
gypso		V	W	TYPE	BASE
19-141071	plaster	12	50	QR-CB 51	GU5.3
<div><div>IP20</div><div>CE</div><div></div><div></div><div></div></div>					



gypso		V	W	TYPE	BASE
19-141035	plaster	230	2x18/26	TC-TE	GX24q
<div><div>IP20</div><div>CE</div><div></div><div></div><div></div></div>					



gypso control gear	
10-9421018	electronic ballast for TC-DE/TE 2x18W
10-9521018	electronic dimmable ballast for TC-DE/TE 2x18W
10-9422642	electronic ballast for TC-DE/TE 2x26W
10-9522642	electronic dimmable ballast for TC-DE/TE 2x26W

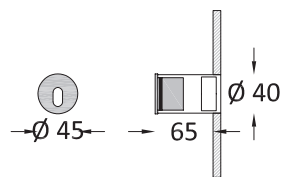





Series of wall recessed lighting fixtures. It is made of die-cast aluminum and comes in two versions of round and square shape. It houses a 350mA LED pcb in asymmetrical position, in order to minimize the glare effect. It comes with the plastic housing box for concrete/brick walls, and with springs for plasterboard walls. It cannot be placed outdoors (IP20). It is available with the 350mA 1W LED 3000K and needs a remote driver.






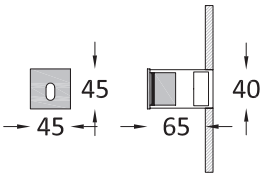


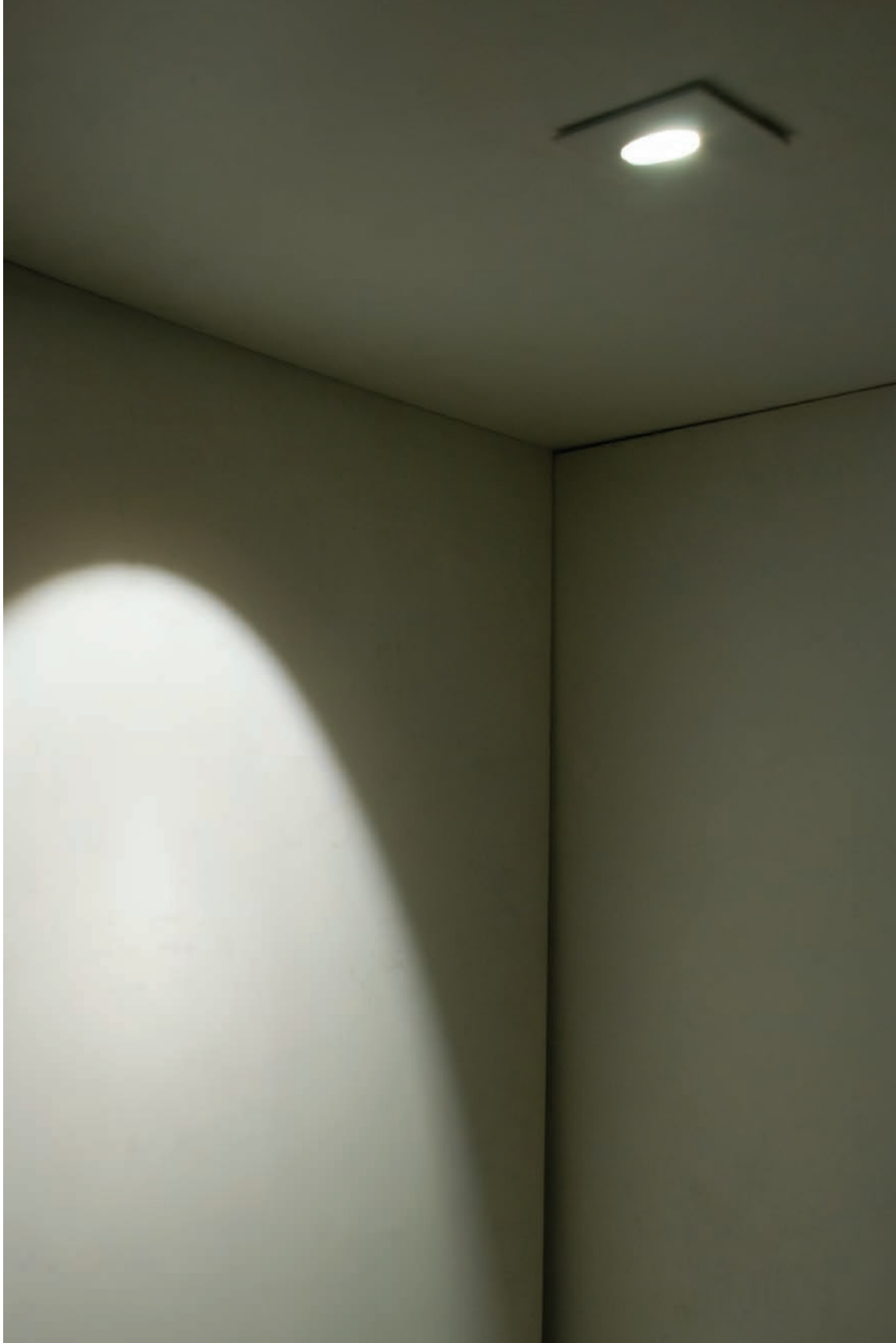
.1 white



ixis		DEGREE	W	mA	°K
75-006300	die-cast aluminum	60°	1x1	350	3000
IP20	CE				

ixis		DEGREE	W	mA	°K
75-006700	die-cast aluminum	60°	1x1	350	3000
IP20	CE				



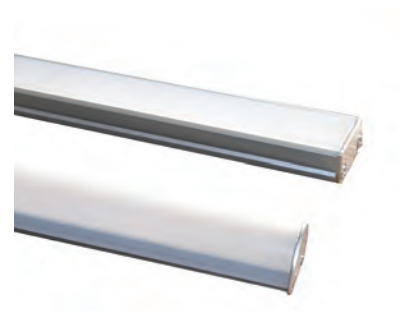


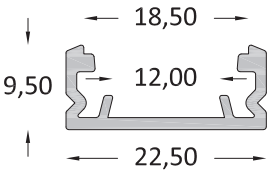
.1 white

alu profiles

Series of wall / ceiling mounted and false-ceiling recessed aluminum profiles for led strips. It is made of anodized aluminum in various linear forms. It has got special dimensions, in order to house the high output 24V led strip series. It functions as an efficient heat-sink for the high temperature, which is released from the back of the led strip and so the led lifespan is maximized. It can also house various, clear or frosted, polycarbonate covers, of round and other shapes. In this way, it can offer both widespread and anti-glare light effect. It is available in version of one meter.







alu profile

10-105499	anodized aluminum	1m
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accessories

59-000160	polycarbonate	flat opal cover
59-003006	polycarbonate	round opal cover
10-105492	plastic/aluminum	mounting bracket
10-105495	plastic/aluminum	flat end cap
10-105496	plastic/aluminum	round end cap

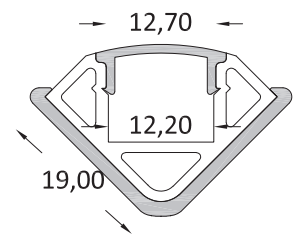
alu 45 profile

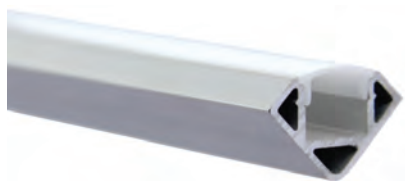
alu 45 profile

10-125499 anodized aluminum 1m

accessories

- 10-125460 polycarbonate opal cover
- 10-125492 plastic/aluminum mounting bracket
- 10-125495 plastic/aluminum end cap

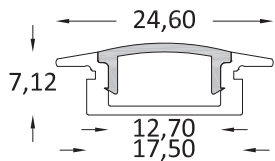




alu recessed profile



alu recessed profile



alu recessed profile

10-115499	anodized aluminum	1m
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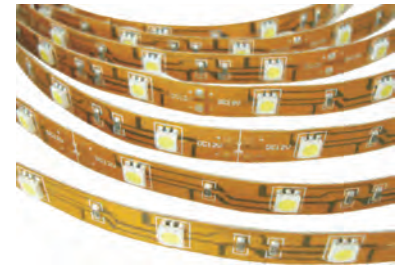
accessories

10-125460	polycarbonate	opal cover
10-115492	plastic/aluminum	mounting bracket
10-115495	plastic/aluminum	end cap

led strip

Series of high output led lighting fixtures. It is made of a series of thermoplastic pcbs with LEDs on them, which are firmly connected to each other on a copper linear base. It offers a 120 degree widespread light effect, in various light temperatures (measured in Kelvin degrees). It comes in miscellaneous wattage (W) versions, with various lumen outputs respectively. It can be cut by specific length and can be used both indoors and outdoors (IP20 / IP67). It is available with 24V power supply voltage in a package of 5meters, with a remote led driver.

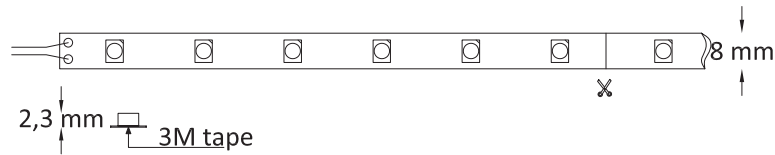
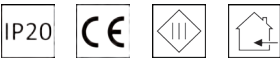




led strip		V	W/m	LED/m	Lm/m	°K
62-10332860	5000mm/reel	24	4.8	60	320	2800
62-10332812	5000mm/reel	24	9.6	120	650	2800

*Strips separable every 6 led

*View angle 120°



led strip

led strip		V	W/m	LED/m	Lm/m	°K
62-10535060	5000mm/reel	24	14.4	60	830	2800

*Strips separable every 6 led

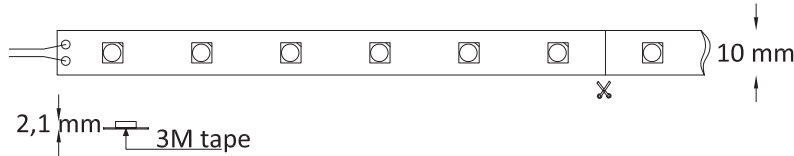
*View angle 120°



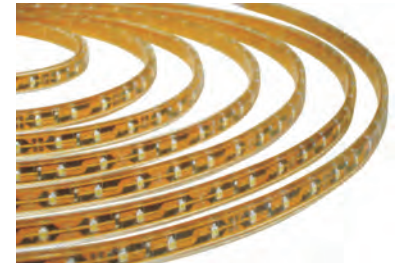
led strip		V	W/m	LED/m	Lm/m	
62-11535060	5000mm/reel	24	14.4	60	120	Red
					240	Green
					150	Blue

*Strips separable every 6 led

*View angle 120°



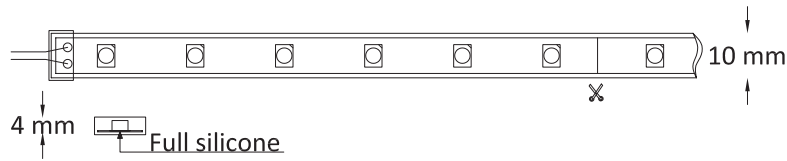
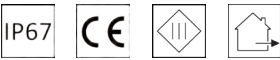




led strip		V	W/m	LED/m	Lm/m	°K
62-10352860	5000mm/reel	24	4.8	60	320	2800
62-10352812	5000mm/reel	24	9.6	120	650	2800

*Strips separable every 6 led

*View angle 120°



led strip

led strip		V	W/m	LED/m	Lm/m	°K
62-10555060	5000mm/reel	24	14.4	60	830	2800

*Strips separable every 6 led

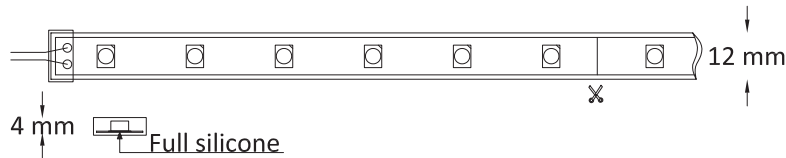
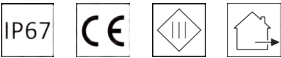
*View angle 120°



led strip		V	W/m	LED/m	Lm/m	
62-11555060	5000mm/reel	24	14.4	60	120	Red
					240	Green
					150	Blue

*Strips separable every 6 led

*View angle 120°



led strip

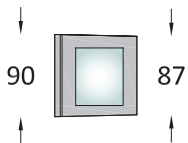
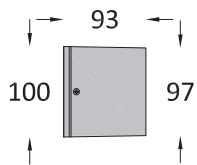


Series of wall mounted lighting fixtures. It is made of oxidation resistant die-cast aluminum and clear glass cover. It is waterproof (IP54) with use of silicon gaskets. It comes in one- and two-emission versions (up and down). It is available with 230V sockets for halogen, compact fluorescent and led lamps.



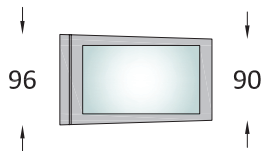
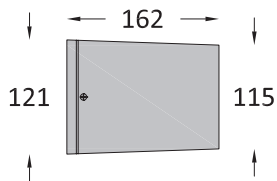


.5 silver grey



edra		V	W	TYPE	BASE
73-007051	die-cast aluminum	230	40	H-PIN	G9
IP54	CE				

edra		V			
73-007052	die-cast aluminum	230	40	H-PIN	G9
IP54	CE				



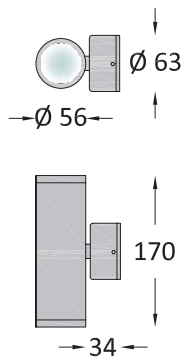
edra		V	W	TYPE	BASE
73-007053	die-cast aluminum	230	60	INC	E27
IP54	CE				

edra		V	W	TYPE	BASE
73-007054	die-cast aluminum	230	60	INC	E27
IP54	CE				

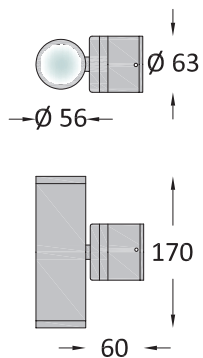
Series of wall mounted lighting fixtures. It is made of high quality stainless steel (316 degrees). It is waterproof (IP65). It has 2 light emissions (up and down). It is available with GU10 or MR16 socket for halogen and led lamps. It can house honeycomb louvre.







asti		V	W	TYPE	BASE
34-300054	stainless steel	230	2x35	PAR 16	GU10
IP65	CE				



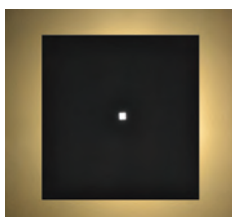
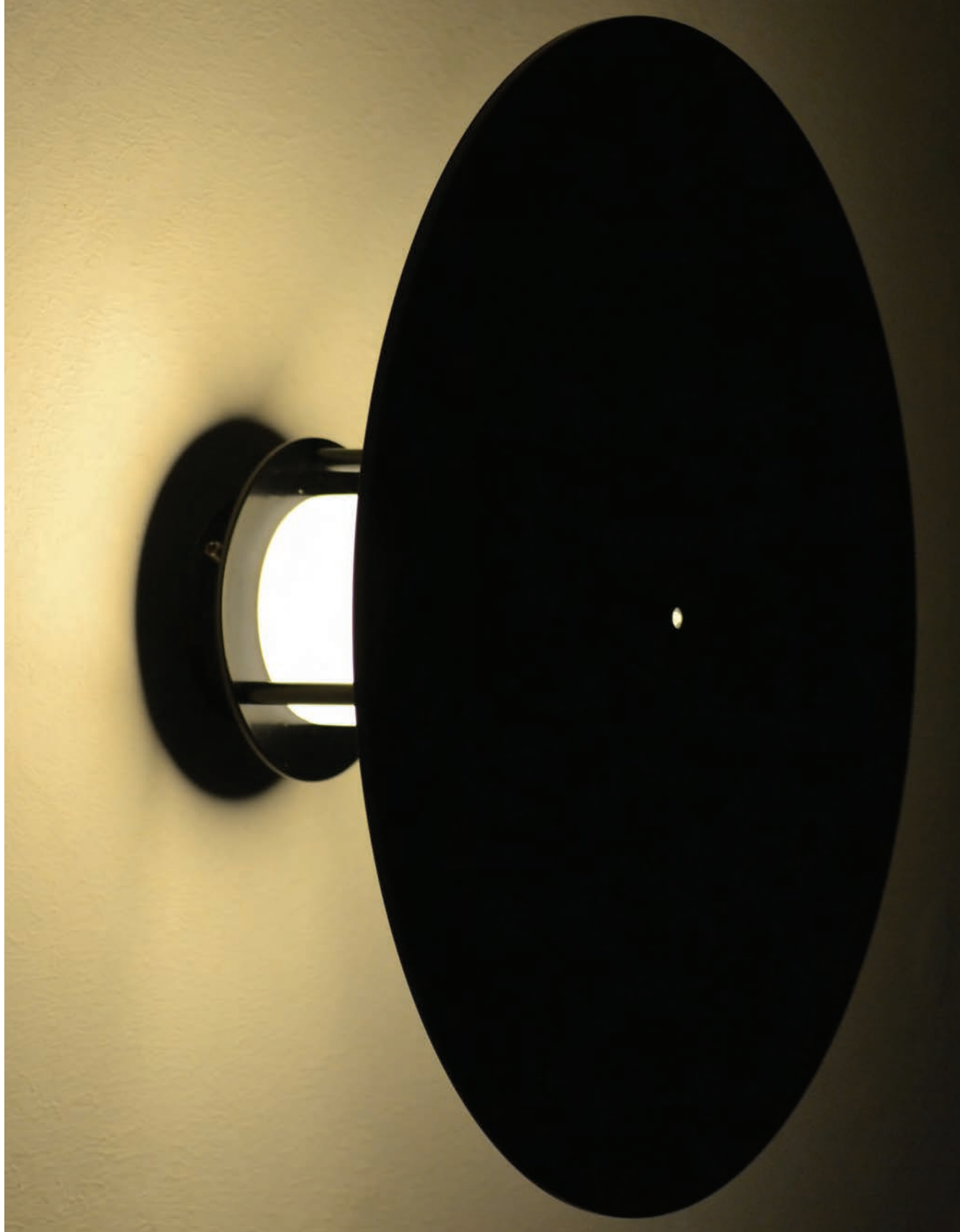
asti		V	W	TYPE	BASE
34-401054	stainless steel	230/12	2x35	QR-CB 51	GU5.3
IP65	CE				



accessories					
21-99001	honeycomb louvre				

cyclos - square new

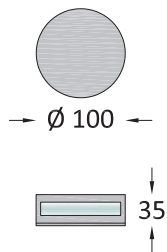
New custom made series of wall mounted lighting fixtures. They consist of a small waterproof base , a frosted lamp cover and a round (Ø 250 mm) or a square (240 x 240 mm) outer cover that emits light from behind, in order to create a fabulous indirect light effect. It is waterproof (IP55) with use of silicon gaskets. It is available with 230V G9 socket for compact fluorescent and led lamps.






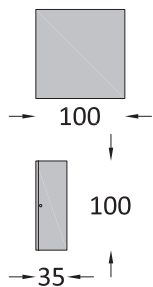
Series of wall mounted lighting fixtures. It is made of an aluminum base and a body of stainless steel (316 degrees) with frosted plexiglass cover. It is waterproof (IP54) with use of silicon gaskets. It comes in round and square versions with integrated high output LED pcbs. The light source is placed deep inside the body and in this way the light is emitted widespread downwards. It is available with 230V ready LED plaques (350mA driver included).










walk		V	W	mA	°K
34-240116	stainless steel	230	3x1	350	3000
IP54	CE				



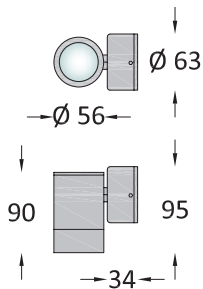
walk		V	W	mA	°K
34-240309	stainless steel	230	3x1	350	3000
IP54	CE				

Series of wall and ground-mounted lighting fixtures. It is made of high quality stainless steel (316 degrees) and has got a clear glass cover. It is waterproof (IP65) with use of silicon gaskets. It comes in fixed and adjustable versions. It can house honeycomb louvre. It is available with 230V GU10 and 12V MR16 sockets for halogen, compact fluorescent and led lamps.

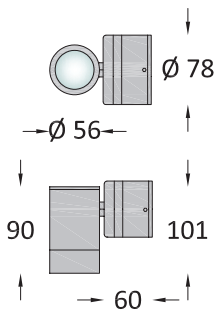


exon





exon		V	W	TYPE	BASE
34-300056	stainless steel	230	50	PAR 16	GU10
IP65	CE				

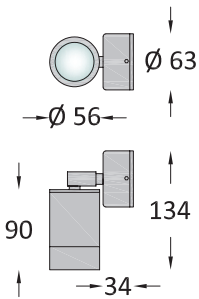


exon		V	W	TYPE	BASE
34-401056	stainless steel	230/12	50	QR-CB 51	GU5.3
IP65	CE				

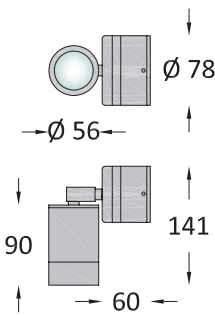


accessories					
21-99001	honeycomb louvre				

exon		V	W	TYPE	BASE
34-300055	stainless steel	230	50	PAR 16	GU10
IP65	CE				



exon		V	W	TYPE	BASE
34-401055	stainless steel	230/12	50	QR-CB 51	GU5.3
IP65	CE				



accessories

21-99001	honeycomb louvre
90-29004	plastic spike



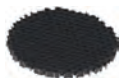
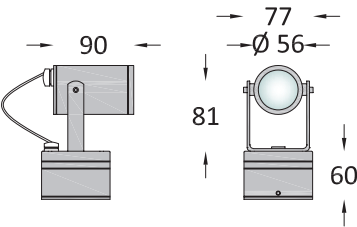


exon



exon








exon		V	W	TYPE	BASE
34-401155	stainless steel	230/12	50	QR-CB 51	GU5.3

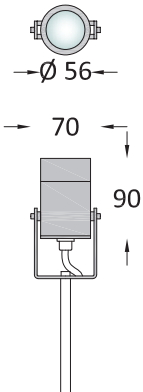


accessories

21-99001 honeycomb louvre

90-29004 plastic spike

exon		V	W	TYPE	BASE
34-300051	stainless steel	230	50	PAR16	GU10
IP65	CE				

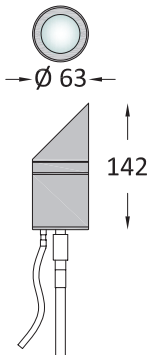


accessories	
21-99001	honeycomb louvre

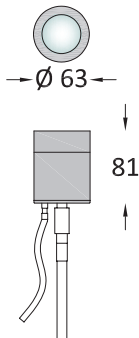








exon		V	W	TYPE	BASE
34-150051	stainless steel	230	50	PAR 16	GU10
IP65	CE				



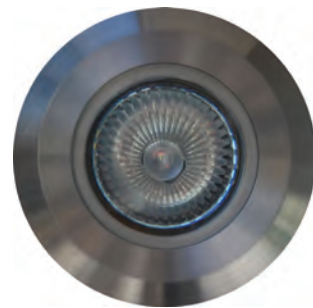
exon		V	W	TYPE	BASE
34-100051	stainless steel	230	50	PAR 16	GU10
IP65	CE				

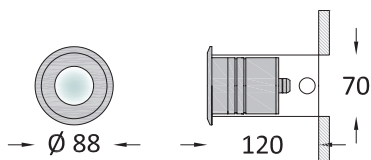


accessories					
21-99001	honeycomb louvre				

Series of wall recessed lighting fixtures. It comes in round versions with various stainless steel bezel covers and in square version with stainless steel assymetrical cover. It is made of die-cast aluminum body and stainless steel (316 degrees) bezel cover . It is waterproof (IP65), with the use of silicon gaskets and stainless screws. It comes with its plastic housing box. It can house honeycomb louvre. It is available with 230V or 12V sockets for halogen, compact fluorescent and led lamps.







dromo		V	W	TYPE	BASE
34-001521	stainless steel	230	50	PAR 16	GU10
34-101521	stainless steel	12	50	QR-CB 35	GU5.3




* body made of stainless steel

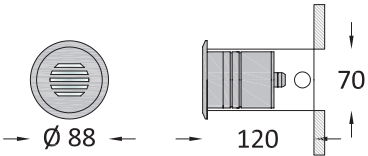


accessories

21-99001 honeycomb louvre

dromo

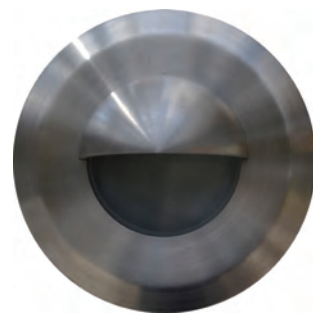
dromo		V	W	TYPE	BASE
34-100526	stainless steel	230	50	PAR16	GU10
IP65	CE				

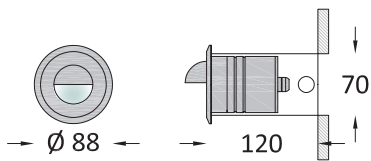


accessories	
21-99001	honeycomb louvre









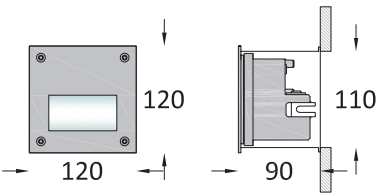
dromo		V	W	TYPE	BASE
34-100525	stainless steel	230	50	PAR16	GU10



accessories

21-99001	honeycomb louvre
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dromo		V	W	TYPE	BASE
84-001010	stainless steel	230	25	H-PIN	G9

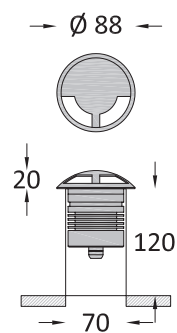




Series of wall- and ground- recessed lighting fixtures. It is made of anodized aluminum body and stainless steel (316 degrees) bezel cover with glass. It comes in round versions with different bezel covers and with a plastic housing box. It is waterproof with use of silicon gaskets (IP67). It is available with 230V GU10 and 12V MR16 sockets for halogen, compact fluorescent and led lamps.







neda		V	W	TYPE	BASE
34-005002	stainless steel	230	35	PAR16	GU10
34-105002	stainless steel	12	50	QR-CB 51	GU5.3


IP67





neda		V	W	TYPE	BASE
34-005003	stainless steel	230	35	PAR16	GU10
34-105003	stainless steel	12	50	QR-CB 51	GU5.3


IP67

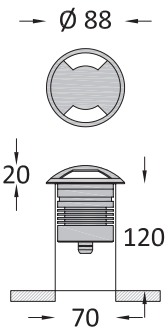
CE

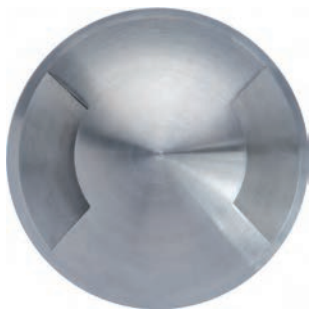










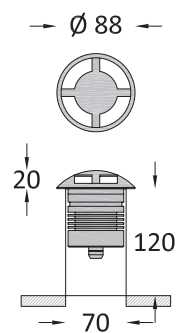


neda



neda





neda		V	W	TYPE	BASE
34-005004	stainless steel	230	35	PAR16	GU10
34-105004	stainless steel	12	50	QR-CB 51	GU5.3

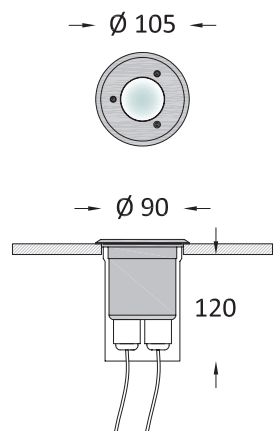
IP67



Series of ground recessed lighting fixtures. It is made of anodized aluminum body, with stainless steel (316 degrees) round bezel covers. It comes with a plastic housing box. It is impact resistant (IK10) and waterproof for ground use (IP67). It comes in different size versions. It can house honeycomb louvre. It is available with 12V / 230V sockets for halogen, fluorescent, led and metal halide lamps.







gea		V	W	TYPE	BASE
65-203601	stainless steel	230	50	PAR16	GU10

*comes with 2 cable glands for easy linear connection

* body made of stainless steel



accessories

21-99001	honeycomb louvre
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gea		V	W	TYPE	BASE
72-208053	stainless steel	230	150	HAL	E27



accessories

72-200204 louvre grid



gea		V	W	TYPE	BASE
72-208085	stainless steel	230/12	100	AR111	G53
72-208087	stainless steel	230	70	HIT	G12



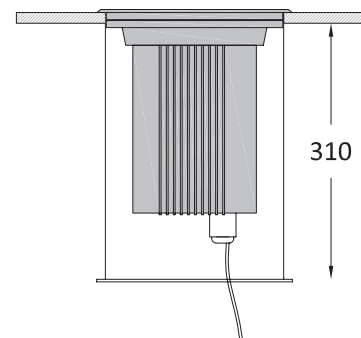
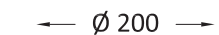
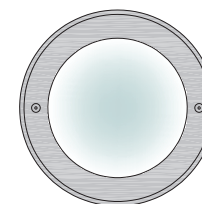
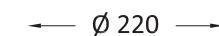
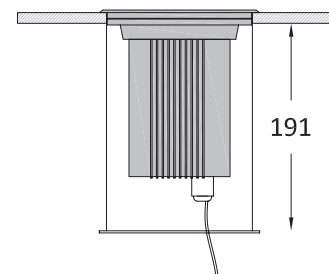
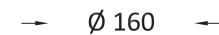
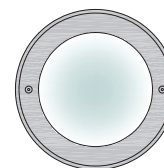
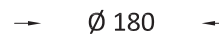
*AR111 version

accessories

72-200206 louvre grid

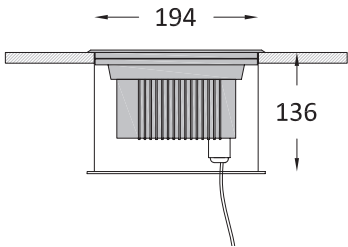
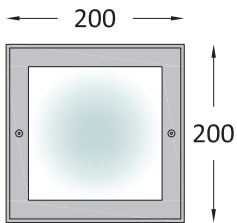


72-200207 homocentric grid









gea		V	W	TYPE	BASE
72-208564	stainless steel	230	20	HIT-TC	GU6.5

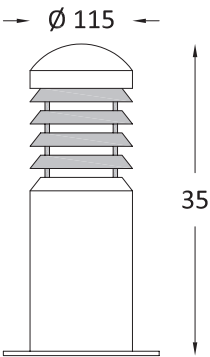


Series of ground mounted bollard-type lighting fixtures. It is made of stainless steel (316 degrees) and of teak wood. It is waterproof (IP55) with use of silicon gaskets. It comes in two basic round versions of 350mm and 600mm tall, and also in one special LED version of 400mm tall. It houses the lamp inside a polycarbonate frosted cover and comes with an asymmetrical blind outer cover, so that it can offer uniform widespread light with anti-glare effect. It is accompanied by an iron base for better ground installation. It is available with 230V E27 socket for compact fluorescent and led lamps and in the LED version with 5x350mA LED (with remote driver). It can be manufactured in custom heights on request.

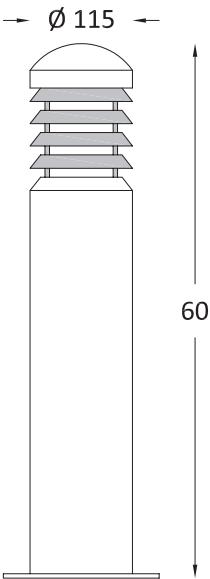


loto






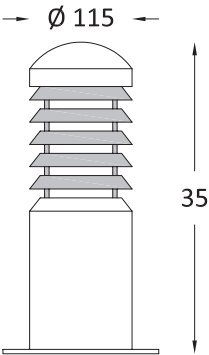
loto		V	W	TYPE	BASE
88-14035	teak,stainless steel	230	14	TC-EL	E27
IP55	CE				




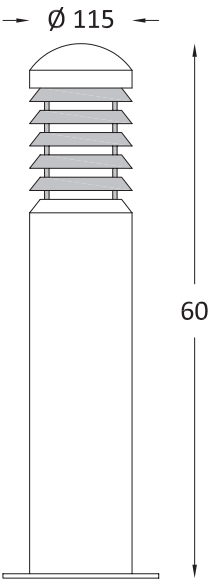
loto		V	W	TYPE	BASE
88-14060	teak,stainless steel	230	14	TC-EL	E27
IP55	CE				

accessories	
88-99000120	concrete base

loto		V	W	TYPE	BASE
88-37035	stainless steel	230	14	TC-EL	E27
IP55	CE				



loto		V	W	TYPE	BASE
88-37060	stainless steel	230	14	TC-EL	E27
IP55	CE				

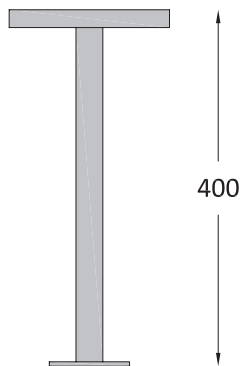
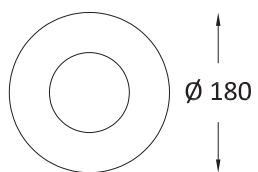


accessories	
88-99000120	concrete base



loto





loto		W	mA	°K
88-30001	stainless steel	5x1	350	3000
IP55	CE			

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