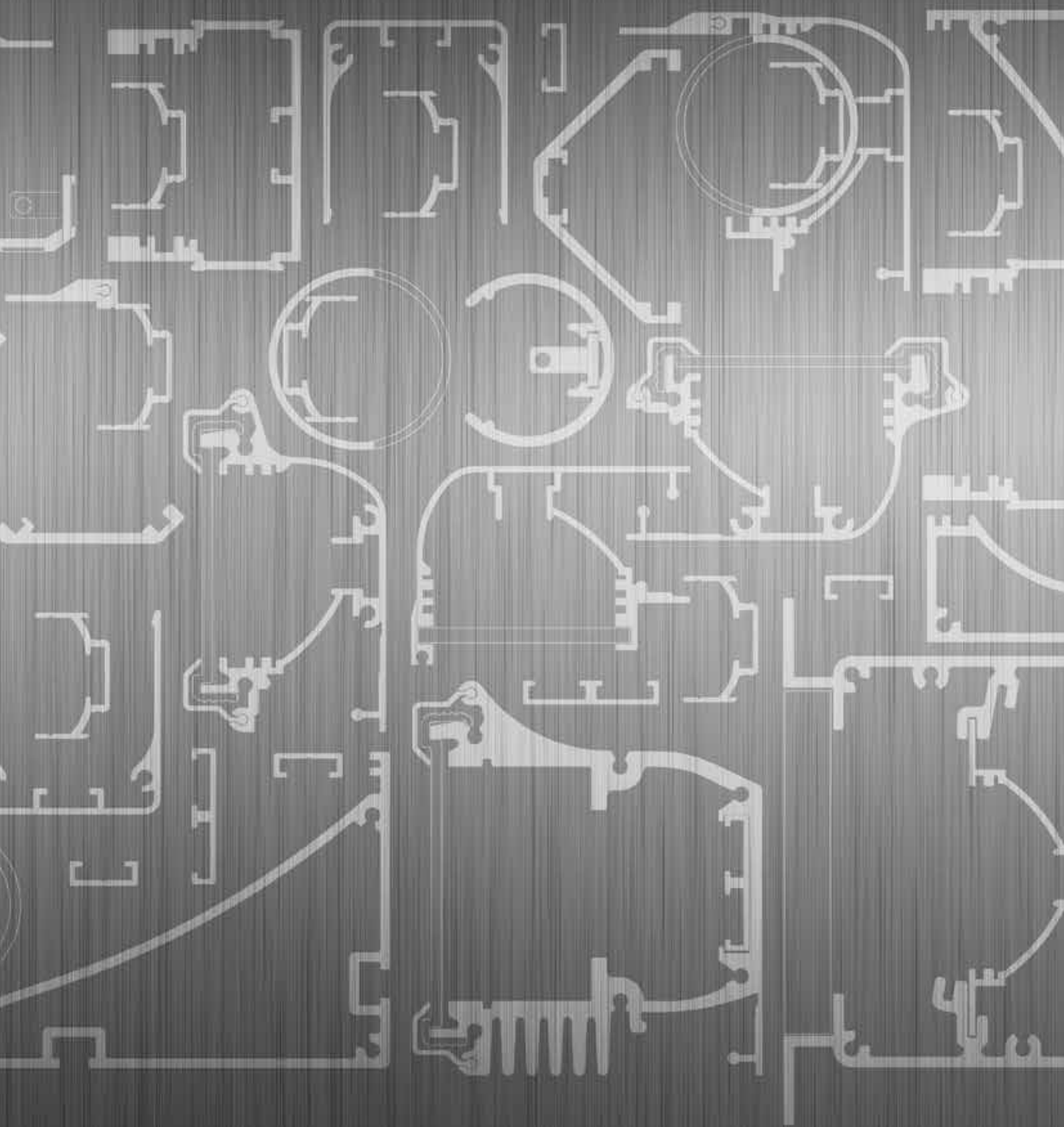




LINEAR LIGHTING PROFILE



SUMMARY

SUMMARY

LIGHTING UNIT	4
LUMINAIRE LED <u>IP20</u>	12
LUMINAIRE LED <u>IP44 to IP68</u>	14
LUMINAIRE XENON <u>IP20</u>	18
LUMINAIRE XENON <u>IP44 to IP68</u>	20
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AGA-LED® VS XENON

New technological breakthrough

AGA-LED® consumes only 1/7th of the energy for Xenon for at least the same amount of light output.

Also the lifetime is worth mentioning.

As for xenon, the lifetime states the average time before the filament will break and lamp is broken.

For the AGA-LED® on the other hand, the lifetime represents the burning hours, which the light output is degraded to 70% of its initial value! So the light source isn't broken but gives off less light!

Also it is a fact that a xenon light bulb, which uses a filament, will degrade much faster when the bulb is turned on/off more often. This due to the immediate temperature shock. The AGA-LED® doesn't have this disadvantage. They can be switched on and off infinitely during their lifetime.

When a xenon light bulb ages, not only the light output will degrade, but also the color temperature will shift. This is not the case with the AGA-LED®. The light output will drop over time but the color temperature will stay the same over its whole lifetime.

Due to the fact that the lifetime of xenon is much shorter, more replacements are needed and if they don't replace all bulbs at the same time, you can see the color differences between bulbs.

Philippe Aerts
R&D Engineer



	Aga-Led Modules		Xenon sources : Long Life			
	04LS32/2400	06LS25/2000	3W	5W	8.5W	10W
Luminous Flux / Unit	~74 lm	~94lm	~12.6 lm	~40 lm	~70 lm	~90 lm
Color White	2400K	2000K	2300K	2400K	2600K	2500K
Ra CRI	80	80	95-100	95-100	95-100	95-100
Viewing angle	120°	120°	360°	360°	360°	360°
Voltage	24 Vdc	24 Vdc	24 Vdc	24 Vdc	24 Vdc	24 Vdc
Power	1.2W	1.2W	3W	5W	8.5W	10W
Lifetime	50'000h	50'000h	20'000 h	20'000 h	10'000 h	20'000 h

CONNECTORS



RIGID LOOP



FESTOON



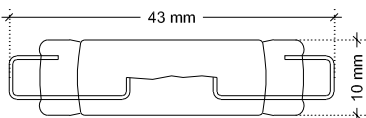
CLIP 4 POSITIONS



LED manufactured for AGABEKOV Patent

European EP 1 373 787 B1 / United States US 6 971 767 B2 / Japanese JP 2004-523872

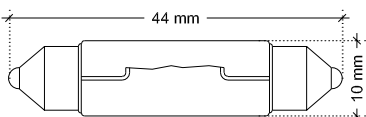
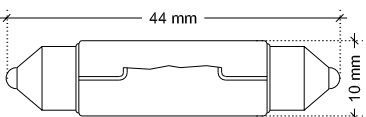
XENON

Référence	Xenon Rigid Loop 43 x 10mm
	

Technical Datas:

Type	High Brightness				Long life								
Glass	Clear or Frosted				Clear or Frosted								
Voltage	12V		24V		12V				24V				26V
Power	5 W	10W	5W	10W	3 W	5 W	8.5 W	10 W	3 W	5 W	8.5 W	10 W	8.5 W
CCT - Kelvin	2700K	2750K	2650K	2750K	2500K	2500K	2400K	2600K	2300K	2400K	2600K	2500K	2400K
Luminous Flux / Unit	60lm	130lm	55lm	125lm	30lm	45lm	75lm	100lm	12.6lm	40lm	95lm	90lm	63lm
Life Time at 25°C	3'000h	3'000h	3'000h	3'000h	3'000h	20'000h	20'000h	20'000h	20'000h	20'000h	10'000h	20'000h	20'000h

SOFFITE

Référence	SI Festoon 44 x 10mm	SX Festoon 44 x 10mm
		

Technical Datas:

Type	Standard						Long Life			
Glass	Clear or Frosted						Clear or frosted			
Voltage	12V			24V			12V		24V	
Power	3 W	5 W	10 W	3 W	5 W	10 W	5 W	10 W	5 W	10 W
CCT - Kelvin	2400K	2500K	2600K	2400K	2500K	2600K	2600K	2700K	2600K	2700K
Luminous Flux / Unit	30lm	38lm	120lm	20lm	38lm	80lm	50lm	120lm	50lm	120lm
Life Time at 25°C	1'000 h	1'000 h	1'000 h	1'000 h	1'000 h	1'000 h	3'000 h	3'000 h	3'000 h	3'000 h

AGA-LED® B2 - G2

Référence	02LS03/G2	02LS04/G2	02LS05/G2
	 Festoon 45 x 12 x 2.7 mm 	 Rigid Loop 43 x 12 x 2.7 mm 	 Clip 4 Positions 42.2 x 12 x 2.7 mm 

Technical Datas:

Leds per unit	2			
Light Source	Nichia			
Voltage	24V			
Power	1.2 W			
CCT - Kelvin	2000K	2400K	2800K	4000K
Luminous Flux / Unit	40 ~ 68 lm	48 ~ 81 lm	68 ~114 lm	68 ~114 lm
CRI	80			
Viewing Angle	120°			
Operating T°	-20°C / +40°C			
Life Time at 25°	50'000h			
L70 at 85°C	36'000h			

AGA-LED® B3 - G2

Référence	03LS29/G2	03LS30/G2	03LS31/G2
	 Festoon 45 x 12 x 2.7 mm 	 Rigid Loop 43 x 12 x 2.7 mm 	 Clip 4 Positions 42.2 x 12 x 2.7 mm 

Technical Datas:

Leds per unit	3			
Light Source	Nichia			
Voltage	24V			
Power	0.96 W			
CCT - Kelvin	2000K	2400K	2800K	4000K
Luminous Flux / Unit	40 ~ 82 lm	58 ~ 97 lm	82 ~137 lm	82 ~137 lm
CRI	80			
Viewing Angle	120°			
Operating T°	-20°C / +40°C			
Life Time at 25°	50'000h			
L70 at 25°C	36'000h			

AGA-LED® B4 - G2

Référence	04LS32/G2	04LS33/G2	04LS34/G2
	 Festoon 45 x 12 x 2.7 mm	 Rigid Loop 43 x 12 x 2.7 mm	 Clip 4 Positions 42.2 x 12 x 2.7 mm
			

Technical Datas:

Leds per unit	4			
Light Source	Nichia			
Voltage	24V			
Power	1.2 W			
CCT - Kelvin	2000K	2400K	2800K	4000K
Luminous Flux / Unit	46 ~ 78 lm	55 - 93 lm	66 ~111 lm	66 ~111 lm
CRI	80			
Viewing Angle	120°			
Operating T°	-20°C / +40°C			
Life Time at 25°	50'000h			
L70 at 25°C	36'000h			

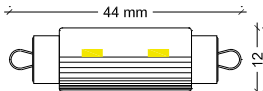
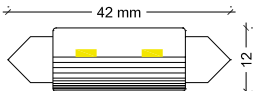
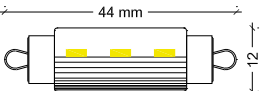
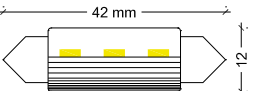
AGA-LED® B6 - G2

Référence	06LS23/G2	06LS24/G2	06LS25/G2
	 Festoon 45 x 12 x 2.7 mm	 Rigid Loop 43 x 12 x 2.7 mm	 Clip 4 Positions 42.2 x 12 x 2.7 mm
			

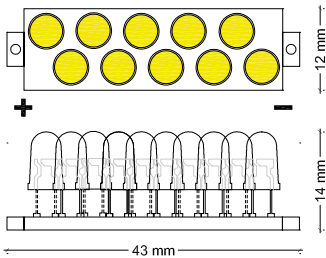
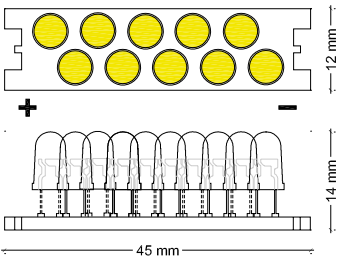
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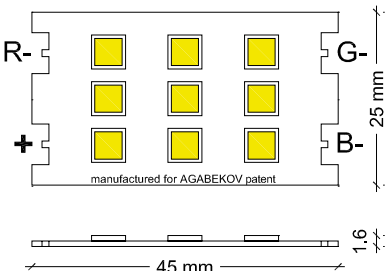
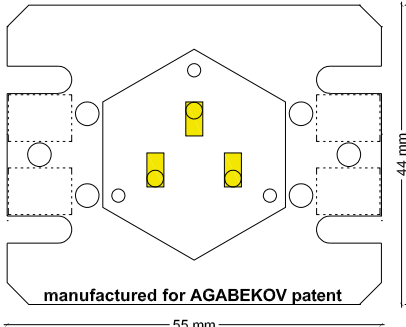
Leds per unit	6			
Light Source	Nichia			
Voltage	24V			
Power	1.2 W			
CCT - Kelvin	2000K	2400K	2800K	4000K
Luminous Flux / Unit	70 ~ 118 lm	83 - 140 lm	99 ~166 lm	99 ~166 lm
CRI	80			
Viewing Angle	120°			
Operating T°	-20°C / +40°C			
Life Time at 25°	50'000h			
L70 at 25°C	36'000h			

AGA-LED® FT

Référence	FTR21	FT21	FTR31	FT31
	 Rigid Loop 44 x 12 mm 	 Festoon 42 x 12 mm 	 Rigid Loop 44 x 12 mm 	 Festoon 42 x 12 mm 
Technical Datas:				
Leds per unit	2			
Light Source	Epistar			
Voltage	12V or 24V			
Power	0.45 W			
CCT - Kelvin	2300K	2800K	3900K	5300K
Luminous Flux / Unit	16~18 lm	19~21 lm	22~24 lm	22~24 lm
CRI	75	70	70	70
Viewing Angle	120°			
Operating T°	-20°C / +45°C			
Life Time at 25°	25'000 h			

AGA-LED® A10

Référence	10LT12	10LT09
	 Rigid Loop 43 x 12 x 14.4 mm 	 Festoon 45 x 12 x 14.4 mm 
Technical Datas:		
Leds per unit	10	
Light Source	Nichia	
Voltage	24V	
Power	1 W	
CCT - Kelvin	2800K	4000K
Luminous Flux / Unit	40lm	45lm
CRI	80	
Viewing Angle	15°	
Operating T°	-30°C / +55°C	
Life Time at 25°	60'000 h	
L50 at 25°C	20'000 h	
Optional Accessories:	AGC	

	AGA-LED® RGB	AGA-POWER-LED	
Référence	09LS05	03LP22	03LP22_RGB
	45 x 25 x 1.6 mm	55 x 44 x 17 mm	
			

Technical Datas:

Leds per unit	9	3	3 (Red, Green, Blue)
Light Source	Nichia	Lumiled SMD	Lumiled SMD
Voltage	24V	24V	24V
Power	1.75 W	3.4 W	3.2 W
CCT - Kelvin	White 8000K	2900K	Unit
	Red 620nm	4000K	Red 627nm
	Green 530nm		Green 530nm
	Blue 470nm		Blue 470nm
Luminous Flux / Unit	47.7lm	198 - 246lm	91-107lm
CRI	17.1lm	243 - 345lm	28-34lm
Viewing Angle	115°	80	47-52lm
Operating T°	-30°C / +45°C	120°	16-21lm
Life Time at 25°	60'000 h	-30°C / +45°C	
L70 at 25°C	15'000 h	60'000 h	
		50'000 h	

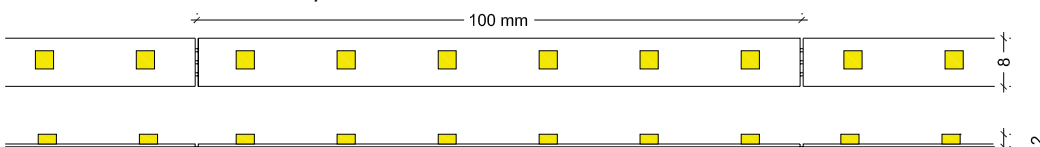
AGA-LED® BUR

Référence	BUR_14	06LT04
	ø16 x 25mm	ø16.8 x 18mm
		

Technical Datas:

Nb of Leds	1	6
Light Source	Cree	Nichia
Voltage	24V	24V
Power	1.8 W	0.48W
CCT - Kelvin	2200K	2800K
	4000K	5000K
Luminous Flux	67~74 lm	24 lm
CRI	80	30 lm
Viewing Angle	14°	80
Operating T°	-20°C / +40°C	15°
Life Time at 25°	50'000h	-30°C / 50°C
L70 at 85°C	36'000h	60'000h
		20'000h

FLEX LED

Référence	Flex Led			
	10m x 8 x Ht2.1mm (cutable every 100mm) 			
Technical Datas:				
Nb of Leds	60/m			
Voltage	24V			
Power	4.8W/m			
CCT - Kelvin	2700K	3000K	4000K	5000K
Luminous Flux	81 lm/W	81 lm/W	88 lm/W	88 lm/W
CRI	>80			
Life Time at 25°	50'000h			

FUORESCENT TUBE

Référence	T5-549	T5-849	T5-1149	T5-1449
	ø16 x 549 mm	ø16 x 849 mm	ø16 x 1149 mm	ø16 x 1449 mm
				
Technical Datas:				
Voltage	220 - 240V			220 - 240V
Power	14W			35W
CCT - Kelvin	2700K	3000K	4000K	2700K 3000K 4000K
Luminous Flux / Unit	1200lm	1200lm	1200lm	3650lm 3650lm 3650lm
Viewing Angle	360°			360°
Life Time at 25°	48'000 h			48'000 h

1993-2013 20 YEARS OF ILLUMINATION OF LOUVRE IN PARIS

In 1993 President Mitterand initiated a very important project of renovation of the Cour Carrée of the Louvre and Cour Napoléon (Pyramide).

We were contacted by EDF (Electricité de France) to make the lighting test on the façade of Louvre. Collaborating with EDF's lighting laboratory and based on our patented B-Light product, our luminaires Louvre 3 and Louvre Neptune were born.

We have since then lit numerous historical monuments and prestigious palaces all over the world, just to mention few, French Academy, College de France in Paris, Hotel Majestic in Montreux, Hotel Beau Rivage in Lausanne, National Palace of Mexico, etc.

Now 20 years later, the technology has evolved and we have adapted our products to it. We have developed the sources AGA-Led units (patented) which permits us to replace the xenon sources in existing luminaires. We have even succeeded to obtain the color temperature which is almost equivalent to the color temperature of Xenon 2400K°.



Hôtel du Palais, Biarritz



Pont Marguerite, Budapest



Palais Sponza, Dubrovnik



Collège de France, Paris



Palais des congrès, Biarritz



Hôtel Majestic, Montreux



Palais Princier de Monaco

For more information don't hesitate to contact us: info@agabekov.com or www.agabekov.com

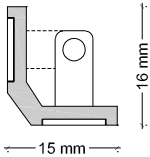
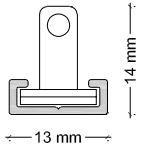
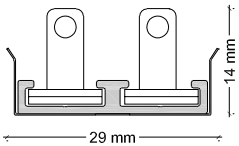


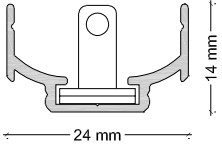
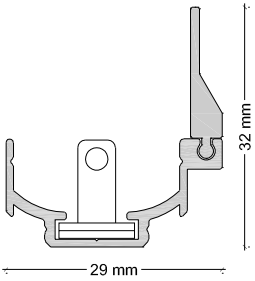
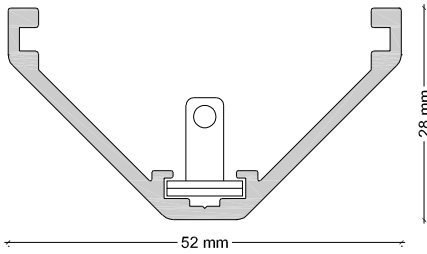
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Internet: www.agabekov.com



Référence	LRB / LRH AGABEKOV SYSTEM	LF LINEAR FLEX	TLF TWIN LINEAR FLEX
IP Protection	IP20	IP20	IP20
Profil			
Lighting Unit:	 Aga-Led® Type A Aga-Led® Type B Led Type FT Aga-Led® RGB	 • • • • • • • • •	 • • • • • • • • • • • •
Optionnal Fixation:	Self Adhesive	BFA FCP / FCP-S	TFCP / TFCP-S
Optionnal Accessories:			

Référence	LU4 UNIVERSAL 4	LU4C UNIVERSAL 4 CACHE	LU3 UNIVERSAL 3	
IP Protection	IP20	IP20	IP20	
Profil				
Lighting Unit:	 <i>Aga-Led® Type A</i> <i>Aga-Led® Type B</i> <i>Led Type FT</i>	 • • • • • • • • •	 • • • • • • • • •	
Optionnal Fixation:	FCU	FCU	ABA-B / ABA-N - ABS-B / ABS-N	
Optionnal Accessories:	Cover VRC / VRM VSC / VSM <i>* For VSC/VSM Cover</i>	End Caps EU4 EU4C* <i>* For VSC/VSM Cover</i>	Cover VAU/VOU* VAS / VOS CFL / CFP1 <i>* Not possible with Aga-Led® Type A</i>	Grid GRPA End Caps EPA Other ARLS

• = can be used with



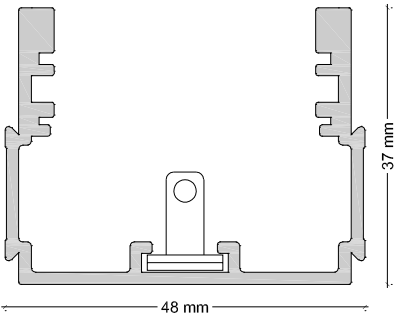
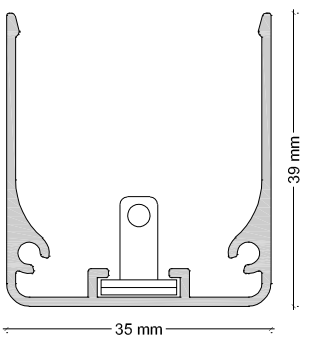
= Rigid Loop Connector

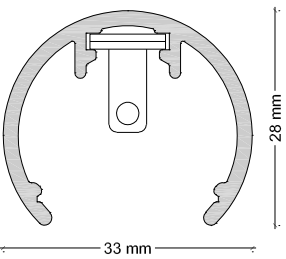
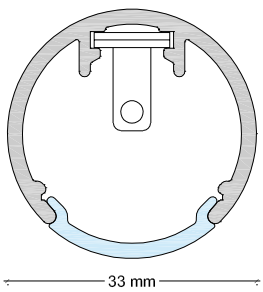
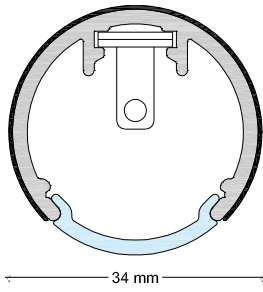


= Festoon Connector



= 4 Positions Connector

Référence	LU5 UNIVERSAL 5	LU6 UNIVERSAL 6
IP Protection	IP20	IP20
Profil		
Lighting Unit:		
Optionnal Fixation:	FELM	
Optionnal Accessories:	Cover VAS / VOS Grid GLA / GLB GTC / GTD End Caps ECM* * For VAS/VOS Cover	Cover CRPS VSM6 End Caps ERPS ERPS-N

Référence	LT2 TUBULAIRE 2	LP WARDROBE LIGHTNG	LPW WARDROBE LIGHTNG WOOD FINISH
IP Protection	IP20	IP20	IP20
Profil			
Lighting Unit:			
Optionnal Fixation:	RBA-B / RBA-N RBS-B / RBA-N	FC FT1	FC-W FT1-W
Optionnal Accessories:	Cover VFC / VFO Grid GRPR End Caps EPR EPR190	Cover VFC / VFO End Caps EPR190	Cover VFC / VFO End Caps EPR190

• = can be used with



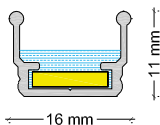
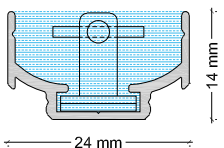
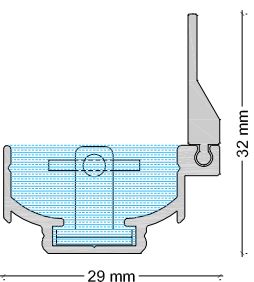
= Rigid Loop Connector

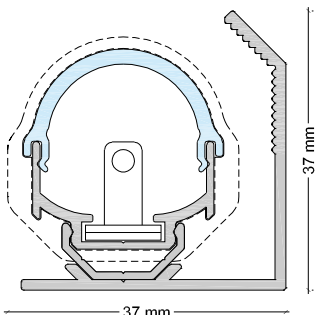
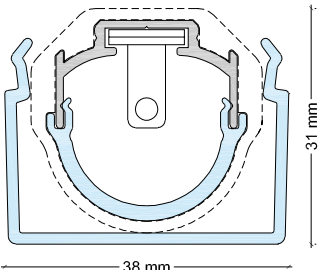
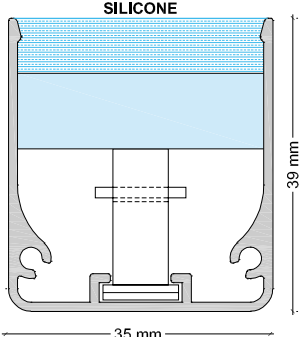


= Festoon Connector



= 4 Positions Connector

Référence	LAV LED WATERPROOF SYSTEM	LU4SAL Silicone SILICONE UNIVERSAL 4	LU4CSAL Silicone SILICONE UNIVERSAL 4 CACHE
IP Protection	IP67	IP67	IP67
Profil			
Lighting Unit:			
			
Optionnal Fixation:	FCU	FCU	FCU
Optionnal Accessories:	Connector GA-2	Cover VRC / VRM VSC / VSM	Cover VRC / VRM VSC / VSM

Référence	LU4E MINI LOUVRE UNIVERSAL 4	CLIP-IN MINI LOUVRE UNIVERSAL 4 BALUSTRADE	LU6AL Silicone SILICONE UNIVERSAL 6
IP Protection	IP65	IP65	IP67
Profil			
Lighting Unit:	 		
	   	   	
Optionnal Fixation:		FCUB	
Optionnal Accessories:	Cover VRME	Cover VRME	

• = can be used with



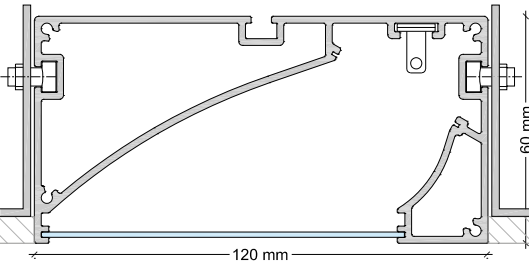
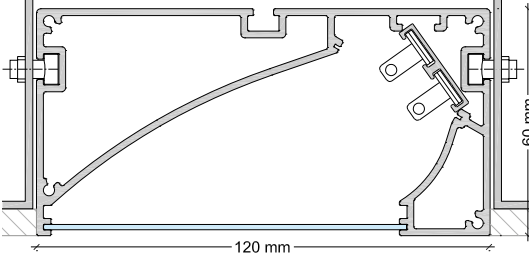
= Rigid Loop Connector

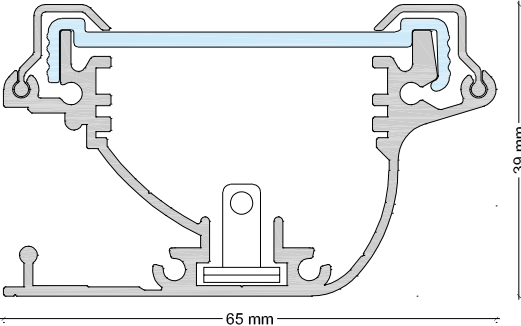
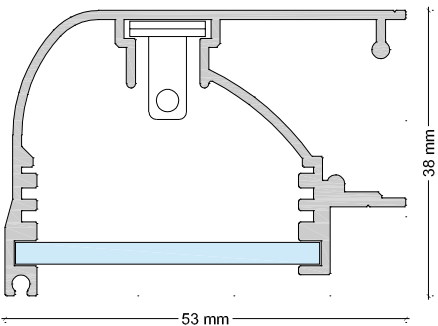


= Festoon Connector



= 4 Positions Connector

Référence	AML / ARL ASYMMETRIC CEILING RECESSED FOR MIRROR ASYMMETRIC RECESSED FOR WALL	AMLT / ARLT ASYMMETRIC CEILING RECESSED FOR MIRROR ASYMMETRIC RECESSED FOR WALL
IP Protection	IP44	DOUBLE CONDUCTOR - IP44
Profil		
Lighting Unit:		
Optionnal Fixation:	FIX (Included)	FIX (Included)
Optionnal Accessories:	Cover VERC End Caps ARL-G/ARL-D + EFA	Cover VERC End Caps ARL-G/ARL-D

Référence	LLN LOUVRE NEPTUNE	LL3 LOUVRE 3
IP Protection	IP65	IP65
Profil		
Lighting Unit:		
Optionnal Fixation:	FLP Serie + CSN	FLP Serie + CSN
Optionnal Accessories:	Grid GLA / GLB* GTC / GTD* Other AP * Not possible with Aga-Led® Type A	Grid GLA / GLB* GTC / GTD* Other CF * Not possible with Aga-Led® Type A

• = can be used with



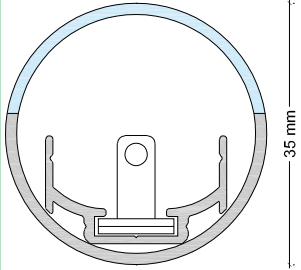
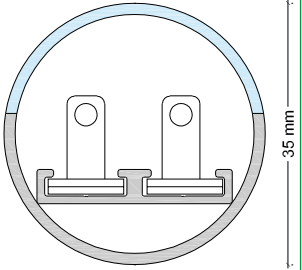
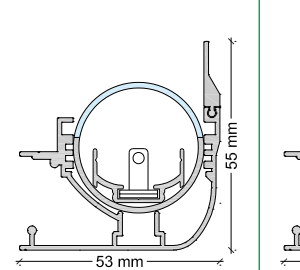
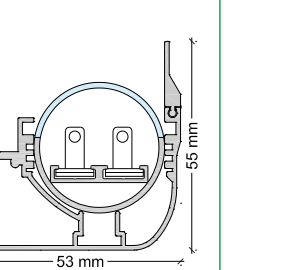
= Rigid Loop Connector

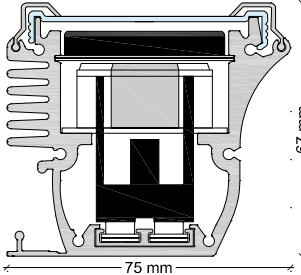


= Festoon Connector



= 4 Positions Connector

Référence	LU4T 68 LOUVRE 4 TUBE 68	LU4TD 68 LOUVRE 4 TUBE 68 DOUBLE CONDUCTOR	LU4T 66 LOUVRE 4 TUBE 66	LU4TD 66 LOUVRE 4 TUBE 66 DOUBLE CONDUCTOR
IP Protection	IP68	IP68	IP66	IP68
Profil				
Lighting Unit:	  		  	
Aga-Led® Type A	•	•	•	•
Aga-Led® Type B	•	•	•	•
Led Type FT	•	•	•	•
Aga-Led® RGB	•	•	•	•
Optionnal Fixation:	FL	FL	FLP Serie + CSN	FLP Serie + CSN

Référence	LAPL MONO - LAPL RGB AGA-POWER LED WHITE or RGB
IP Protection	IP65
Profil	
Lighting Unit:	 
Aga-Power® LED	•
Aga-Power® RGB	•
Optionnal Fixation:	FLP Serie + CSN-AP
Optionnal Accessories:	RAPI BOX RAPI COVER + GL

• = can be used with



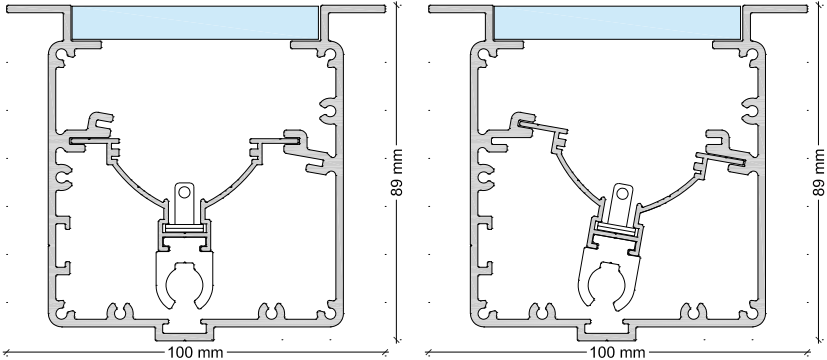
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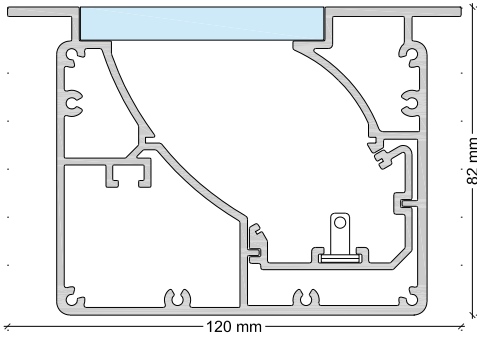
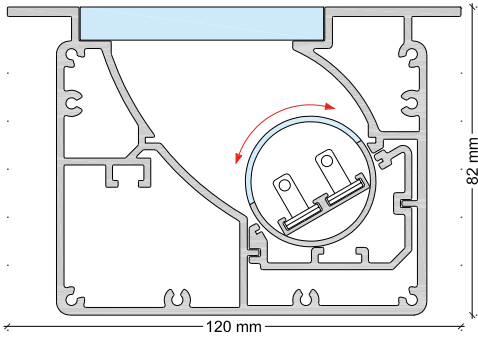


= Festoon Connector



= 4 Positions Connector

Référence	LESI ASYMMETRIC RECESSED GROUND / WALL LOUVRE	
IP Protection	IP65	
Profil		
Lighting Unit:		
Optionnal Fixation:		
Optionnal Accessories:	Grid GLA* / GLB* GTC* / GTD*	Box LESI BOX
* Only with Aga-Led® Type B		

Référence	LASY ASYMMETRIC RECESSED LOUVRE	LASYT TUBE ASYMMETRIC RECESSED LOUVRE
IP Protection	IP67	IP67
Profil		
Lighting Unit:		
Optionnal Accessories:	Grid GTSE*	Box LASY BOX
* Only with Aga-Led® Type B		

• = can be used with



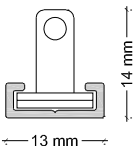
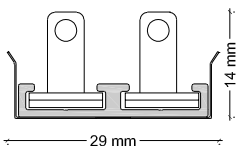
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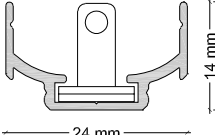
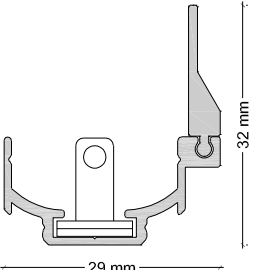
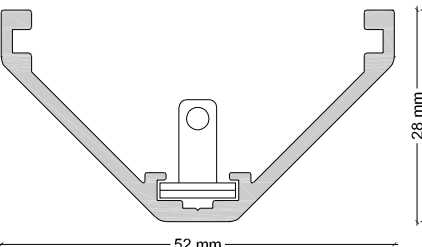


= Festoon Connector



= 4 Positions Connector

Référence	LF LINEAR FLEX	TLF TWIN LINEAR FLEX
IP Protection	IP20	IP20
Profil		
Lighting Unit:		
Optionnal Fixation:	BFA FCP / FCP-S	TFCP / TFCP-S
Optionnal Accessories:		

Référence	LU4 UNIVERSAL 4	LU4C UNIVERSAL 4 CACHE	LU3 UNIVERSAL 3
IP Protection	IP20	IP20	IP20
Profil			
Lighting Unit:			
Optionnal Fixation:	FCU	FCU	ABA-B / ABA-N - ABS-B / ABS-N
Optionnal Accessories:	Cover VRC / VRM* VSC / VSM* End Caps EU4 EU4C** * Max 3W ** For VSC/VSM Cover	Cover VRC / VRM* VSC / VSM* End Caps EU4 EU4C** * Max 3W ** For VSC/VSM Cover	Cover VAU/VOU* VAS / VOS** CFL/CFP1 Grid GRPA End Caps EPA Other ARLS * Max 3W ** Max 5W

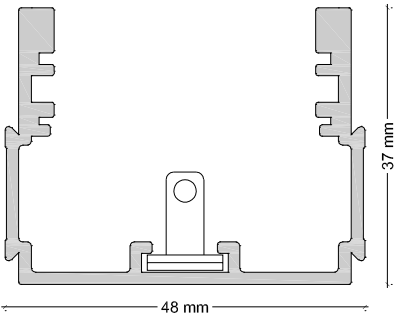
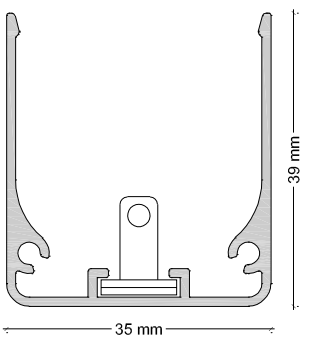
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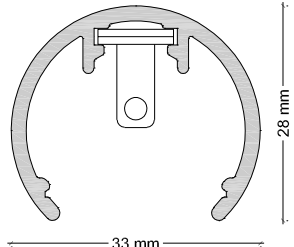
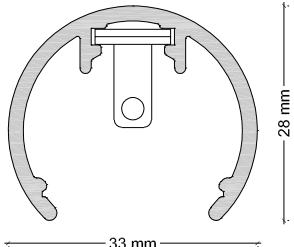
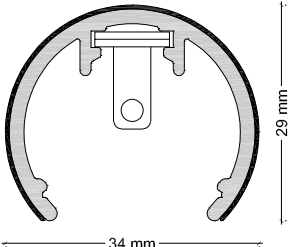


= Rigid Loop Connector



= Festoon Connector

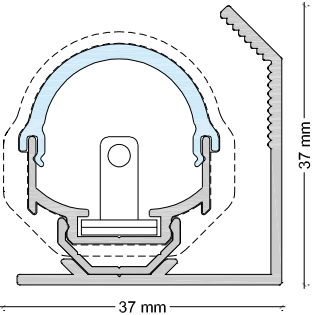
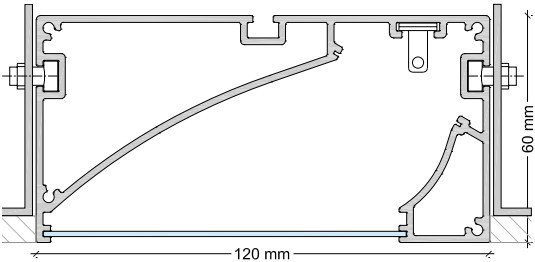
Référence	LU5 UNIVERSAL 5	LU6 UNIVERSAL 6
IP Protection	IP20	IP20
Profil		
Lighting Unit:	 	 
	Xenon Soffite	
Optionnal Fixation:	FELM	
Optionnal Accessories:	Cover VAS / VOS Grid GLA / GLB GTC / GTD End Caps ECM* <i>* For VAS/VOS Cover</i>	Cover CRPS VSM6 End Caps ERPS ERPS-N

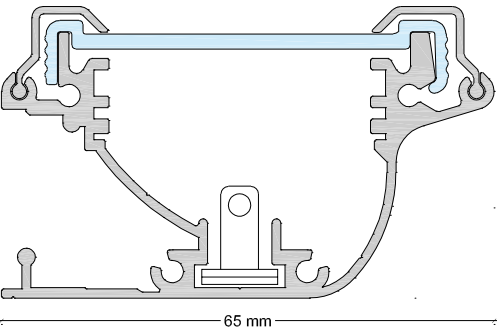
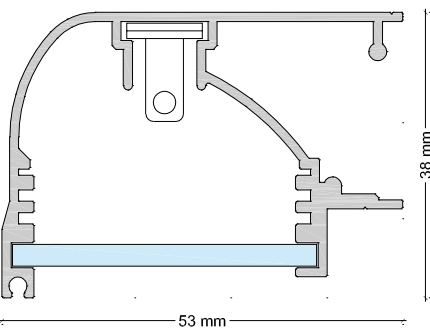
Référence	LT2 TUBULAIRE 2	LP WARDROBE LIGHTNG	LPW WARDROBE LIGHTNG WOOD FINISH
IP Protection	IP20	IP20	IP20
Profil			
Lighting Unit:	 	 	 
	Xenon Soffite		
Optionnal Fixation:	RBA-B / RBA-N RBS-B / RBA-N	FC FT1	FC-W FT1-W
Optionnal Accessories:	Grid GRPR End Caps EPR EPR-190	Grid GRPR End Caps EPR-190	Grid GRPR End Caps EPR-190

• = can be used with

 = Rigid Loop Connector

 = Festoon Connector

Référence	LU4E MINI LOUVRE UNIVERSAL 4	AML / ARL ASYMMETRIC CEILING RECESSED FOR MIRROR ASYMMETRIC RECESSED FOR GROUND / WALL
IP Protection	IP65	IP44
Profil		
Lighting Unit:	 Xenon Soffite	 Xenon  Festoon
Optionnal Fixation:		FIX (Included)
Optionnal Accessories:	Cover VRME	Cover VERC End Caps ARL-G/ARL-D + EFA

Référence	LLN LOUVRE NEPTUNE	LL3 LOUVRE 3
IP Protection	IP65	IP65
Profil		
Lighting Unit:	 Xenon Soffite	 Xenon Soffite
Optionnal Fixation:	FLP Serie + CSN	FLP Serie + CSN
Optionnal Accessories:	Grid GLA / GLB GTC / GTD Other AP	Grid GLA / GLB GTC / GTD Other CF

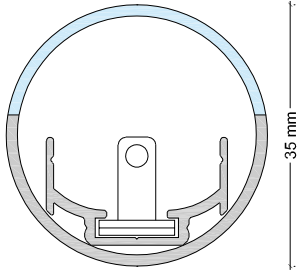
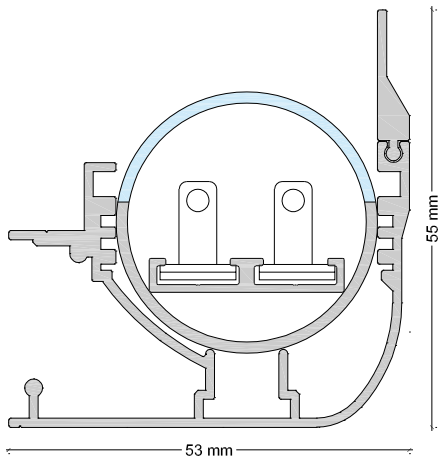
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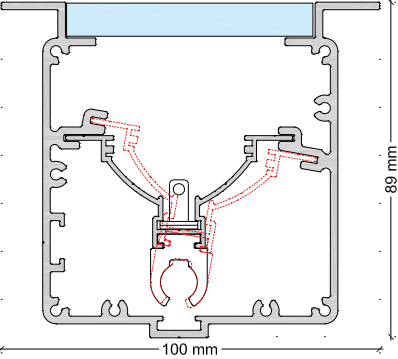
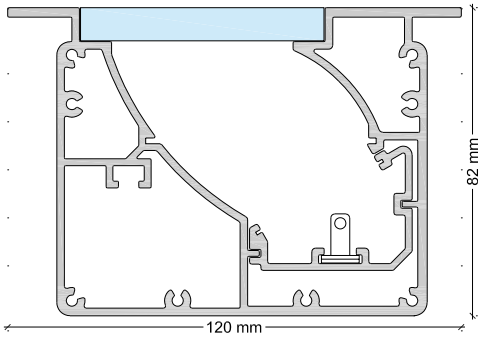


= Rigid Loop Connector



= Festoon Connector

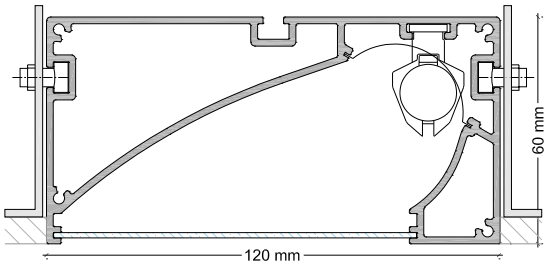
Référence	LU4T 68 LOUVRE 4 TUBE 68	LU4T 66 LOUVRE 4 TUBE 66
IP Protection	IP68	IP66
Profil		
Lighting Unit:	  Xenon Soffite	  Xenon Soffite
Optionnal Fixation:	FL	FLP Serie + CSN

Référence	LESI ASYMMETRIC RECESSED GROUND / WALL LOUVRE	LASY ASYMMETRIC RECESSED LOUVRE
IP Protection	IP65	
Profil		
Lighting Unit:	 Xenon Soffite	 Xenon Soffite
Optionnal Accessories:	Grid GLA* / GLB* GTC* / GTD* * Only with Xenon Lighting Unit	Box LASY BOX

• = can be used with

 = Rigid Loop Connector

 = Festoon Connector

Référence	AML / ARL ASYMMETRIC CEILING RECESSED FOR MIRROR ASYMMETRIC RECESSED FOR WALL	
IP Protection	IP44	
Profil		
Lighting Unit:	Tube T5 	
Optionnal Fixation:	FIX (Included)	
Optionnal Accessories:	Cover VERC	End Caps ARL-G/ARL-D + EFA

STATE MOSQUE OF QATAR

Doha, Qatar



Project Management: Arab Engineering Bureau
Consultant: SMEC International Pty Ltd.
Design Consultant: Mimar Consult
Lighting Design: Architectural Lighting Design SHLD. Mr. Sabry El Harrany
Contractor: Contraco
Lighting Supplier: Lumatron Qatar wll.
Technical support and concept: AGABEKOV SA
Luminaries manufactured on measure by AGABEKOV SA on the base of B'Light® conductor.

Type of Luminaries AGABEKOV:

LFX - 1'000mm to 2'000mm x 3'036 units

LU4EX - 400mm to 2'033mm x 732 units

LU4AL - 0470mm x 202 units

LASY AC - 0550mm to 2'380mm x 63 units

Xenon Rigid Loop Lamp 24V 5W x 81'949 units

Xenon Rigid Loop Lamp 12V 8.5W x 2'604 units

AGA-LED® 24V 1.1W B10 - 2'800°K x 1'616 units

AGABEKOV
LIGHTING COMPANY INTERNATIONAL®

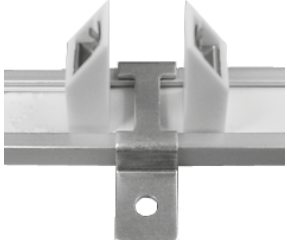


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Internet: www.agabekov.com



FIXTURE Référence	ABA-B / ABA-N Perpendicular support	ABS-B / ABS-N 45° support	BFA Mounting Clip
Finish For Luminaire Dimension	B = White / N = Black LU3 54mm x 20mm x 49mm	B = White / N = Black LU3 86mm x 20mm x 46mm	Aluminium LF 25mm x 8mm x 6mm
			

FIXTURE Référence	CSN Security Clip for FLP Series	CSN-AP Security Clip for FLP Series	FC / FC-W Median Support
Finish For Luminaire Dimension	Aluminium LLN + LL3 + LU4T 66 + LU4TD 66 22mm x 31mm	Aluminium LAPL 25mm x 60mm	Aluminium LP + LPW 50mm x 117mm / 121mm
			

FIXTURE Référence	FCP / FCP-S Fixation Clip	FCU Fixation Clip	FCUB Fixation Clip
Finish For Luminaire Dimension	Aluminium LF 15mm x 30mm x 10mm	Aluminium LAV LED + LU4 + LU4C + LU4E 16mm x 30mm x 8mm	Aluminium CLIP-IN 30mm x 15mm x 22mm
			

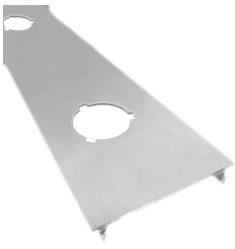
FIXTURE Référence	FELM False Ceiling Mounting Support	FIX False Ceiling Mounting Support	FL Fixation Clip
Finish For Luminaire Dimension	Aluminium LU5 24mm x 13mm	Aluminium AML + ARL + AMLT + ARLT 20mm x 12mm x 56mm	Plastic LU4T 68 + LU4TD 68 42mm x 45mm
			

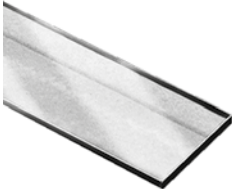
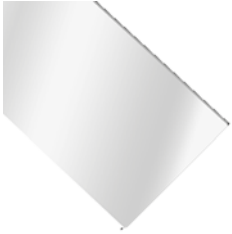
 FIXTURE Référence 	 FT1 / FT1-W Side Support 	 PE4 Corner fixation 	 TFCP / TFCP-S Fixation Clip
 Finish Fixation for Dimension 	Aluminium LP / LPW ø42 x 15mm / ø45 x 15mm	Aluminium LU4 + LU4E 35mm x 37mm	Aluminium TLF 29mm x 30mm x 9mm
			

 FIXTURE Référence 	 RBA-B / RBA-N Tilted support 45° 	 RBS-B / RBS-N Perpendicular support
 Finish Fixation for Dimension 	B = White / N = Black LT2 78mm x 20mm x 27mm	B = White / N = Black LT2 56mm x 23mm x 25mm
		

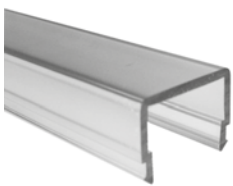
 FIXTURE Référence 	 FLP1 Standard clip bracket 	 FLP1C Short clip bracket 	 FLPF Short clip bracket for windows
 Finish Fixation for Dimension 	Aluminium LAPL + LLN + LL3 48mm x 50mm	Aluminium LAPL + LLN + LL3 28mm x 50mm	Aluminium LAPL + LLN + LL3 52mm x 28mm
			

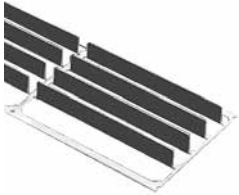
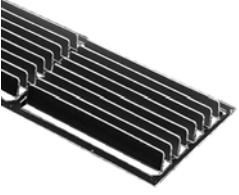
 FIXTURE Référence 	 FLP2 Adjustable clip bracket 	 FLPJ Clip bracket for garden 	 FLP3 Clip bracket
 Finish Fixation for Dimension 	Aluminium LAPL + LLN + LL3 228 to 341mm x 100mm	Aluminium LAPL + LLN + LL3 26mm x 228mm	Aluminium LAPL + LLN + LL3 76mm x 60mm
			

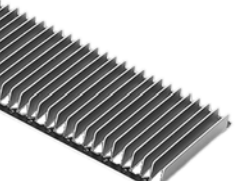
COVER Référence	CFL Linear front cover	CFP1 Linear front cover	CRPS Linear front cover
Finish For Luminaire Dimension	Aluminuim LU3 52mm x 6mm	Alumnuim LU3 ARLS 52mm x 6mm	Aluminuim LU6 35mm x 9mm
			

COVER Référence	VAS / VOS Half Moon Cover	VAU / VOU Linear Glasse Cover	VERC Linear Glasse Cover
Finish For Luminaire Dimension	Polycarbonate Clear or Opal LU3 + LU5 52mm x 24mm	Polycarbonate Clear or Opal LU3 47mm x 4mm	Polycarbonate Clear AML + ARL + AMLT + ARLT 95.5mm x 3mm
			

COVER Référence	VFC / VFO Half Moon Glass Cover	VRC / VRM Half Moon Glass Cover	VRCE / VRME Half Moon Glass Cover
Finish For Luminaire Dimension	Polycarbonate Clear or Opal LT2 + LP + LPW 23mm x 8mm	Polycarbonate Clear or Opal LU4 + LU4C 22mm x 17mm	Polycarbonate Clear or Opal LU4E 26mm x 17mm
			

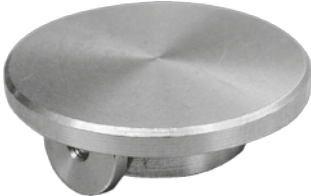
COVER Référence	VSC / VSM Square Glass Cover	VSM6 Square Cover
Finish For Luminaire Dimension	Polycarbonate Clear or Opal LU4 + LU4C 24mm x 17mm	Polycarbonate Opal CLIP IN / LU6 36mm x 27mm
		

GRID Référence	GLA Simple longitudinal grid	GLB Double longitudinal grid	GRPA Protection Grid
Finish For Luminaire Dimension	Aluminuim LESI / LLN / LL3 / LU5 38mm x 6mm	Aluminuim LESI / LLN / LL3 / LU5 38mm x 6mm	Aluminuim LU3 57mm
			

GRID Référence	GRPR Protection Grid	GTC Simple traverse grid	GTD Double traverse grid
Finish For Luminaire Dimension	Stainless Steel LT2 28mm	Aluminuim LESI / LLN / LL3 / LU5 38mm x 6mm	Aluminuim LESI / LLN / LL3 / LU5 38mm x 6mm
			

GRID Référence	GTSE Traverse grid
Finish For Luminaire Dimension	Stainless Steel LESI 60mm x 6mm
	

END CAPS Référence	ARL-D / ARL-G	EPA	EPAR
Finish For Luminaire Dimension	Aluminium AML + AMLT + ARL + ARLT 119.5mm x 7mm x 59.5mm	Aluminium LU3 52mm x 2mm x 32mm	Aluminium LU3 52mm x 2mm x 45.8mm
			

END CAPS Référence	EPR	EPR190	ERPS
Finish For Luminaire Dimension	Plastic LT2 33mm x 12.5mm	Aluminium LP + LPW 33mm x 10mm	Aluminium LU6 34.6mm x 12.5mm x 39.5mm
			

END CAPS Référence	ERPS-N	EU4	EU4C
Finish For Luminaire Dimension	Plastic LU6 37.6mm x 59mm x 8.5mm	Aluminium LU4 + LU4C 23.8mm x 10mm x 13mm	Aluminium LU4 + LU4C 23.8mm x 13mm x 25.7mm
			

BOX Référence	LASY BOX / RAPI BOX Recessed Inox Box	LESI BOX Recessed inox Box
Finish	Stainless Steel	Stainless Steel
For Luminaire	LASY - LAPL	LESI

IMPORTANT

It is essential to provide drainage for the following recessed luminaires :
LASY - LESI & RAPI

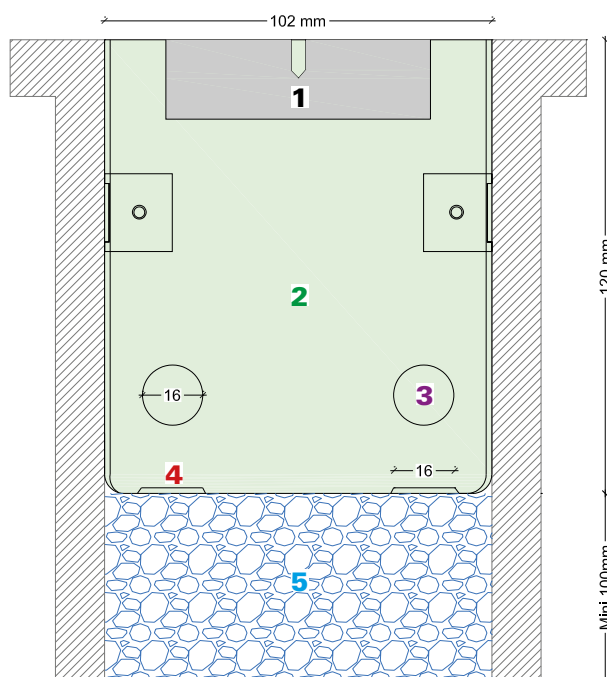
1
PVC Material

2
Stainless Steel Box

3
Space for electrical tube
Ø16mm

4
Drain for water evacuation
Ø16mm

5
Drainage minimum
100mm



CONNECTION Référence	AF/AMS Male / female plug	COS-1 Power connector	COS-3 Power connector
For Luminaire Dimension	All 40mm x 8.5mm	All Cable: 1m of 2x2.5mm ²	All Cable: 1m of 2x2.5mm ²
			

CONNECTION Référence	COS-4 Power connector	COS-4A Power connector	GA2 Heat-shrinkable connector
For Luminaire Dimension	All Cable: 1m of 2x2.5mm ²	All Cable: 80mm+110mm of 2x2.5mm ²	All For 2x2.5mm ² cables
			

Référence	AGC Anti Glare System	AP Anti Pigeon Protection	ARLS Aga-Led® Rotative Spot
Finish For Luminaire Dimension	-- Aga-Led® A10 41mm x 12mm x 13mm	Aluminium LLN on measure	-- LU3 55mm x 36mm x 30mm
			

Référence	CF Front Visor	RI Reflector 24°	RIP Reflector 60°
Finish For Luminaire Dimension	Aluminium LL3 4mm x 20mm	Chrome-plated All 38.8mm x 12mm	Chrome-plated All 22.2mm x 5.8mm
			

THE CATHEDRAL TREASURY OF DUBROVNIK

Riznica Katedrale, Dubrovnik, Croatia



Building: Dubrovnik Cathedral
Dubrovnik Cathedral Treasury
Light design: Antun Stedul dipl. ing. Spekto d.o.o.
Technical support and lighting on measure by AGABEKOV SA

Luminaires

Agabekov Linear lighting:

13pcs x LL3AL AGA-LED Louvre 3 24V/1.2W 2400K

4 pcs x LU4CSAL AGA-LED LU4C 24V/1.2W 2400K

AGABEKOV
LIGHTING COMPANY INTERNATIONAL®



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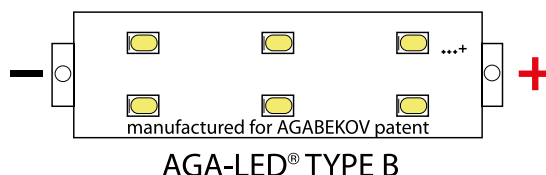
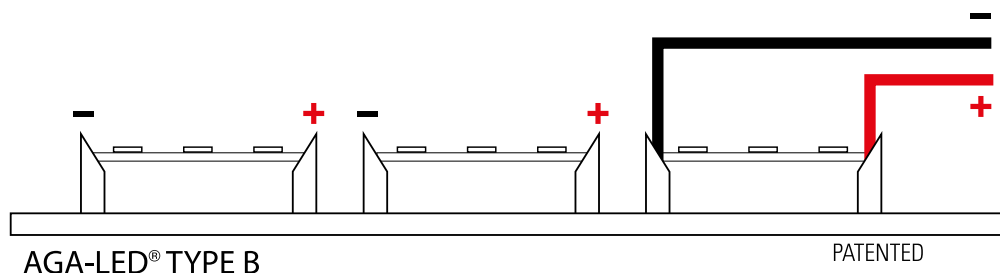
AGABEKOV SA Bureau d'études 73, ROUTE DE THONON
CH-1222 VÉSENAZ - GENEVA - SWITZERLAND
Tel. +41 22 752 47 45 Fax. +41 22 752 37 08
Internet: www.agabekov.com



AGA-LED® LIGHTING UNIT

- All AGA-LED® lighting units manufactured for Agabekov Lighting Company International®, are coated to protect them from humidity and dust.
- The applied coating is clear acrylic formulated without chlorinated solvents or CFC's. The UV generated by sunlight, will not affect the translucence of the coating.
- The AGA-LED® units emit no UV or IR rays and are therefore ideal for lighting paintings and all items sensitives to UV or IR rays.
- The coating product withstands temperatures ranging from -40°C to 125°C.
- The contact-ends of the unit are not coated. Oxidization can occur but the three tight-fitting contact points should guarantee a reliable connection.
- The effect of humidity on the light output of an AGA-LED®, is negligible. It is the heat that speeds up the degradation.
- We exposed several AGA-LED® lighting units without coating for two years, in external conditions.

ENSURE THE CORRECT POLARITY



CAUTION

- The LED products, in which the AGA-LED® lighting units are included, are rated as lasers and their use is subject to safety requirements.
- AGA-LED® lighting units are rated as class 3R LED products, i.e. LED / lasers emitting in the wavelength range from 302,5 nm to 106 nm.
- Take the following precaution when using AGA-v lighting units: avoid direct eye exposure to the LED light.

LOCATION OF LASER APERTURES

- The laser apertures are located on the top the of AGA-LED® lighting units.

INSTALLATION

- Never look at an AGA-LED® light source from a distance of less than 200mm. This precaution applies to all LED units to prevent eye lesions.
- Installation work must be carried out by authorised electrical contractors in conformity with local requirements. AGA-LED® must be connected to a low voltage source (12V or 24V, $\pm 5\%$) with thermal protection and must be fuse-protected against short-circuits and overloads.
- Energy consumption should not exceed the rated value for the converter.
- When mounting the luminaires, never drill through the conductors.
- AGA-LED® luminaires can be mounted on furniture.

ASSEMBLY & POWER FEED

- The AGA-LED® lighting unit can be installed in all existing B'LIGHT® luminaires. The mounting system is the same as for Xenon and Festoon (Soffite) lamps. Therefore, a luminaire fitted with Xenon lamps can be repopulated with AGA-LED® lighting units. For luminaires fitted for festoon lamps, BXA supports and CMB covers must be added to fit AGA-LED® lighting units.
- Caution: when mounting or replacing an AGA-LED®, ensure the correct polarity.
- The use of one (or more) converters is necessary for luminaires with AGA-LED® lighting units. Electronic or ferromagnetic transformers are not permitted.
- Caution: ensure the correct AGA-LED® polarity.
- To obtain the maximum light output, the luminaires should be equipped with a reflector.

MAINTENANCE

- AGA-LED® lighting units have an approximate lifetime of 60'000h and no special maintenance is necessary.
- Never use water pressure jets to clean the luminaires.

STANDARDS AND TESTS

- The electrical safety tests for AGA-LED® products have been carried out by Electrosuisse (Association for Electrical Engineering, Power and Information Technologies). ENEC 13 mark of conformity received through certificate CH-02-IK-0261.i.
- The luminaires were tested according to the standards EN 60598-2-1 and 60825-1.

PROPERTY RIGHTS

- The luminaires illustrated in our catalogues are patented and protected by international property rights. Legal action will be taken in the event of any reproduction or other violation of our property rights.
- As the whole range of AGA-LED® products are subject to ongoing development, we reserve the right to modify dimensions, shapes and colours at any time.

IMPORTANT WARNING

- Agabekov SA accepts no liability in the event that equipment is fitted and/or installed by third parties without prior consultation with its technical department.

FIRST NUMBER
PROTECTION AGAINST SOLID BODIES
0 *No Protection*
1 Protected against solid object larger than 50mm

2 Protected against solid object larger than 12mm

3 Protected against solid object larger than 2.5mm

4 Protected against solid object larger than 1mm

5 Protected against dust, no harmful deposits

6 Completely protected against dust

SECOND NUMBER
PROTECTION AGAINST LIQUID
0 *No Protection*
1 Protected against vertically falling drop of water

2 Protected against drops of water falling at up to 15° from the vertical

3 Protected against drops of rain water at up to 60° from the vertical

4 Protected against projections of water from any directions

5 Protected against low water jets from any direction.
Jet of 6.3mm, pressure 30kPa

6 Protected against low water jets from any direction.
Jet of 12.5mm, pressure 100kPa

7 Protected against temporary immersion in water under specified condition of pressure

8 Protected against continuous submersion in water under specified condition of pressure

ASK OUR TECHNICAL DEPARTMENT FOR MORE INFORMATION



European Norms Electrical Certification No. 370.069.

B'Light® conforms to the European Standards EN 60.598.1 and EN 60.598.2.1 and EN 60.825-1, class III, IP. These standards cover all aspects of product safety, including electrical, mechanical and thermal specifications. The electrical tests on B'Light® products were carried out by the Swiss Electrotechnical Association. Compliance certification ENEC 13 No. 95.110960.



All products subject to the EMC guideline 89 / 336 (electromagnetic compatibility) and the guideline 73/23 (low voltage) meet the requirements therein and bear the CE symbol on their packaging

Products with discharge lamps and electronic components in accordance with the valid EN norm, which in the basis of the EMC guideline 89/336 (electromagnetic compatibility) do not cause interference



USA certification Standard for Luminaires UL1598/CSA C22.2 No.250.0-00



UL Underwriters Laboratories Inc.



GOST Mark Certification - Russian safety standards



European certification according to CCA procedures (CENELEC Certification Agreement) with NTR (Notification of Test Results)
Confirmation of conformity with safety and EMC standard



FCC United State
Federal Communications Commission



Restriction of Hazardous Substances Directive in electrical and electronic equipment 2002/95/EC

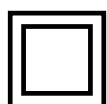
Lead (Pb) / Mercury (Hg) / Cadmium (Cd) / Hexavalent chromium (Cr6+)
Polybrominated biphenyls (PBB) / Polybrominated diphenyl ether (PBDE)



All luminaires meet the F requirements in accordance with EN 60598-1 and are suitable for mounting on normally flammable surfaces (housing parts)



Class I Luminaires
Basic insulation plus protective earth connector



Class II Luminaires
Double or reinforced insulation, no provision for protective earthing



Class III Luminaires
Supply of safety extra-low voltage

IPXX

Protection mode IP (more information previous page)



AGABEKOV SA
Green Power
Energy Saving

DISTRIBUTOR

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