ALDABRA

EK1

Professional modular linear lighting system for signal lighting suitable for indoor and outdoor settings

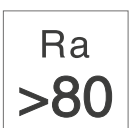|	
Applications:	steps, niches, walls, cornices, parapets, handrails, shelves, windows, showcases
Settings:	hotels, museums, historical buildings, private houses
Installation:	ground or wall recessed with housing
Materials:	aluminium or **stainless steel 316L** - resins
Finishes:	anodized aluminium or satin stainless steel
Light source:	mid Power LED 140 - 180 lm/W
Optics:	transparent (45°) and opal diffuser (109°)
Functions:	on-off, dimmable
Features:	reduced dimensions lengths up to 2 meters (78,74")
Power supply:	24 Vdc constant voltage

UL LISTED FOR HUMAN TOUCH
stainless steel version
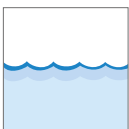
IP68 SUBMERSIBLE
aluminium version

WALK OVER

c UL us LISTED

Made in Italy

Ra >80

3-STEP MACADAM

LED colours

Features

IP66   IP68   IK10   4409 Lbs   1382°F

Installation

The Roof Bar @ Public Hotel - New York City, USA

ALDABRA

Made in Italy

Ra **>80**

3-STEP MACADAM

-22°F
122°F

140 - 180 lm/W

MID POWER LED 24 Vdc MONOCHROMATIC

example EK1.02.T30A1.0

pitch [in]	length [mm + in]	power [W]	code	+	optics		+	LED colors			+	finishes		+	release
0,787	520 (20,472")	4	**EK1.01**		**.T**	transparent diffuser 45°		**27**	warm white	2700 K		**A1**	anodized aluminium		**.0**
	1020 (40,157")	8	**EK1.02**					**30**	warm white	3000 K					
	1520 (59,842")	12	**EK1.03**		**.D**	opal diffuser 109°		**33**	warm white	3300 K					
	2020 (79,527")	15	**EK1.04**					**37**	neutral white	3700 K					
	corner	3	**EK1.51**					**52**	cool white	5200 K					
	external edge	3	**EK1.52**												

Corner module

External edge module

Example of external edge application

Page references

Accessories	page 314
Power supply units	page 324
Connection diagrams	page 330 - D1/K1

Notes

24 Vdc constant voltage supply dimmable, parallel connection

LED with different color temperatures are available on request

UL/CUL certified only stainless steel versions

Cesano railway station - Rome, Italy

ALDABRA

Made in Italy

-22°F
122°F

SIGNAL LED 24 Vdc RGB

example EK1.02.D90A1.0

pitch [in]	length [mm + in]	power [W]	code	+	optics			+	LED colors		+	finishes		+	release
0,787	520 (20,472")	8	**EK1.01**		**.T**	transparent diffuser	45°		**90**	RGB		**A1**	anodized aluminium		**.0**
	1020 (40,157")	15	**EK1.02**												
	1520 (59,842")	23	**EK1.03**		**.D**	opal diffuser	109°								
	2020 (79,527")	30	**EK1.04**												

corner		6	**EK1.51**
external edge		6	**EK1.52**

SIGNAL LED 24 Vdc RGB MOVE

example EK1.04.D92A1.0

pitch [in]	length [mm + in]	power [W]	code	+	optics			+	LED colors		+	finishes		+	release
0,984	520 (20,472")	6	**EK1.01**		**.D**	opal diffuser	109°		**92**	RGB MOVE		**A1**	anodized aluminium		**.0**
	1020 (40,157")	12	**EK1.02**												
	1520 (59,842")	18	**EK1.03**												
	2020 (79,527")	24	**EK1.04**												

EK1 installed in trimless recessing box

EK1 installed in recessing box with trim

Integrated cable protection lock

Page references

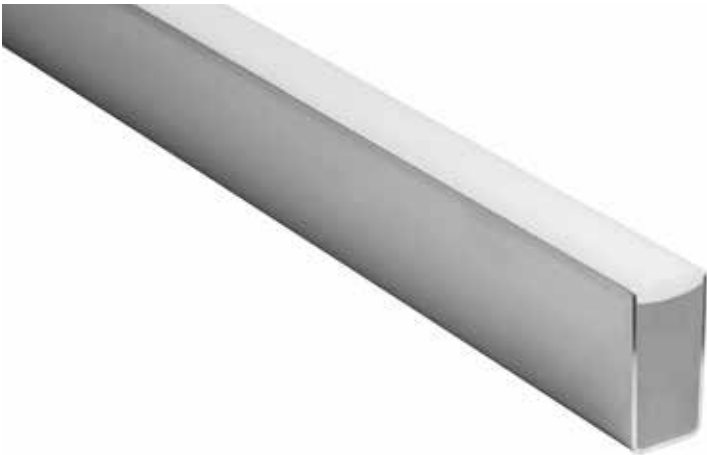|	
Accessories	page 314
Power supply units	page 324
Connection diagrams	page 330 - RGB: J1 MOVE: M1

Notes

24 Vdc constant voltage supply dimmable, parallel connection

UL/CUL certified only stainless steel versions

Granary Wharf - Leeds, England

Made in Italy

Ra **>80**

3-STEP MACADAM

-22°F
122°F

140 - 180 lm/W

MID POWER LED 24 Vdc MONOCHROMATIC

example EK1.02.T30S1.0

pitch [in]	length [mm + in]	power [W]	code	+	optics		+	LED colors			+	finishes		+	release
0,787	520 (20,472")	4	**EK1.01**		**.T**	transparent diffuser 45°		**27**	warm white	2700 K		**S1**	satin stainless steel		**.0**
	1020 (40,157")	8	**EK1.02**					**30**	warm white	3000 K					
					.D	opal diffuser 109°		**33**	warm white	3300 K					
								37	neutral white	3700 K		★ code only for pool applications			**.U**
								52	cool white	5200 K					

Stainless steel recessing box for EK1

Installing EK1 in stainless steel recessing box
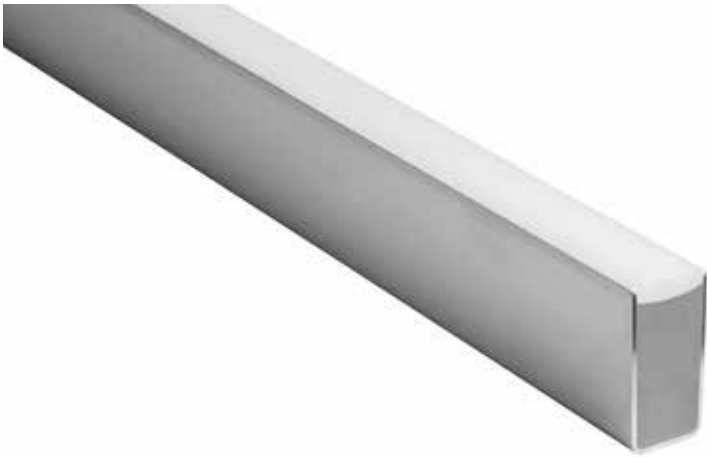

EK1 installed in stainless steel recessing box

Page references

Accessories	page 314
Power supply units	page 324
Connection diagrams	page 330 - D1/K1

Notes

24 Vdc constant voltage supply dimmable, parallel connection

LED with different color temperatures are available on request

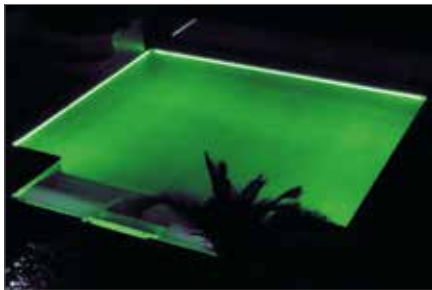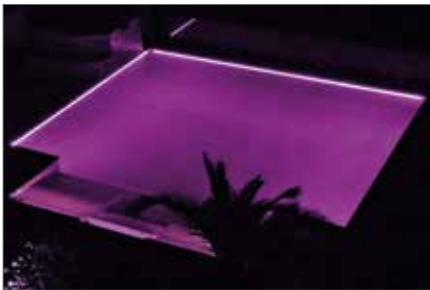★ Use the .U suffix specifically for use in swimming pools

Made in Italy

-22°F
122°F

SIGNAL LED 24 Vdc RGB

example EK1.02.D90S1.0

pitch [in]	length [mm + in]	power [W]	code	+	optics			+	LED colors		+	finishes			+	release
0,787	520 (20,472")	8	**EK1.01**		**.T**	transparent diffuser	45°		**90**	RGB		**S1**	satin stainless steel			**.0**
	1020 (40,157")	15	**EK1.02**		**.D**	opal diffuser	109°									
												★ code only for pool applications				**.U**

RGB color changing

Page references

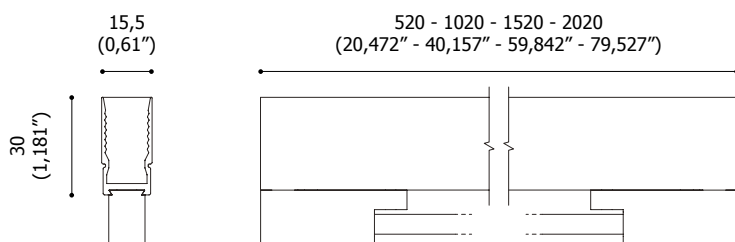| Accessories	page 314
Power supply units	page 324
Connection diagrams	page 330 - J1

Notes

24 Vdc constant voltage supply dimmable, parallel connection

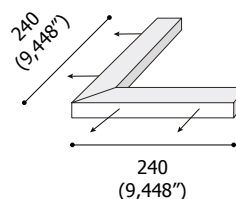★ Use the .U suffix specifically for use in swimming pools
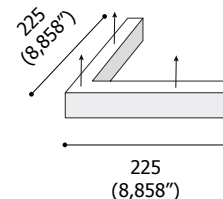
TECHNICAL DRAWINGS

dimensions in mm (in)

Aluminium

15,5
(0,61")

520 - 1020 - 1520 - 2020
(20,472" - 40,157" - 59,842" - 79,527")

30
(1,181")

The double cable exit is only present in MOVE versions

External edge

240
(9,448")

240
(9,448")

Corner

225
(8,858")

225
(8,858")

RECESSING BOXES

Type A - anodized aluminium

CSF.0001.0   trimless recessing box 520 mm (20,472")

CSF.0002.0   trimless recessing box 1020 mm (40,157")

CSF.0003.0   trimless recessing box 1520 mm (59,842")

CSF.0004.0   trimless recessing box 2020 mm (79,527")

19
(0,748")

67
(2,637")

44,6
(1,755")
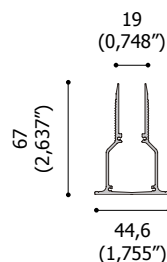
Type B - anodized aluminium

CSF.0005.0   recessing box with trim 520 mm (20,472")

CSF.0006.0   recessing box with trim 1020 mm (40,157")

CSF.0007.0   recessing box with trim 1520 mm (59,842")

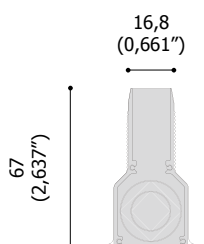**CSF.0008.0**   recessing box with trim 2020 mm (79,527")
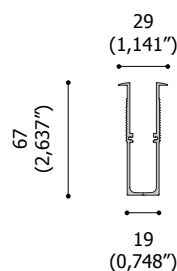
For corner or external edge products, order a linear recessing box to be cut on site.
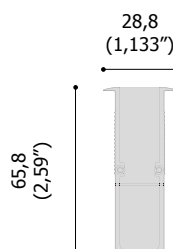
29
(1,141")

67
(2,637")

19
(0,748")

ACCESSORIES

ACC.0001.0

couple of end caps for recessing box type A

16,8
(0,661")

67
(2,637")

ACC.0002.0

couple of end caps for recessing box type B

28,8
(1,133")

65,8
(2,59")

ACC.0003.0

alignment kit for housing boxes type A and B

ACC.0006.0

fixing spring

14,1
(0,555")

27,5
(1,082")
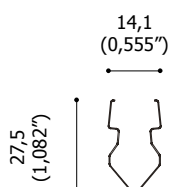
ACC.0028.0

safety steel wire for ceiling installation for preventing accidental fall

Advices for springs application

Floor installation	2 springs: 520mm - 1020 mm (20,472" - 40,157")
	3 springs: 1520mm - 2020 mm (59,842" - 79,527")
Ceiling installation	3 springs: 520mm - 1020 mm (20,472" - 40,157")
	4 springs: 1520mm - 2020 mm (59,842" - 79,527")

ACC.0004.0

tool for pulling out the module from the housing box

ALUMINIUM VERSION TECHNICAL INFORMATION

Body	aluminium, resin
Screen	resin
Finish	anodized aluminium
Optics	transparent (45°) or opal (109°) diffuser
Screws	stainless steel
Installation	recessed in recessing box
Power supply cables	see table page 326
LED colors	2700 K, 3000 K, 3300 K, 3700 K, 5200 K, RGB, RGB MOVE
Power supply	24 Vdc (±5%) constant voltage - parallel connection
Absorbed power per meter	monochromatic: Mid Power LED 8 W (pitch 20 mm - 0,787")
	RGB: Signal LED 15 W (pitch 20 mm - 0,787") - RGB MOVE: Signal LED 12 W (pitch 25 mm - 0,984")
Luminous efficiency	mid Power LED 140 - 180 lm/W
CRI	Ra > 80
Chromatic selection	MacAdam 3-step
Recommended installation	recessed (wall, floor, ceiling) - immersion
Working temperature	-30°C ÷ 50°C (-22°F ÷ 122°F)
Surface temperature	Ts ≤ 65°C (149°F)
Static load resistance	2000 kg (4.409 Lbs)
Weight per meter	800 g (1.76 Lbs)
Protection degree	IP66/IP68 - 30 meters (98,42 ft), IK10
Markings	CE
Norms	products comply norms EN60598-1 and its parts; EN60598-2 and its parts

Recommended installation
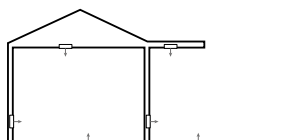
Features

IP66 IP68 IK10 4.409 Lbs CE RoHS 1382°F
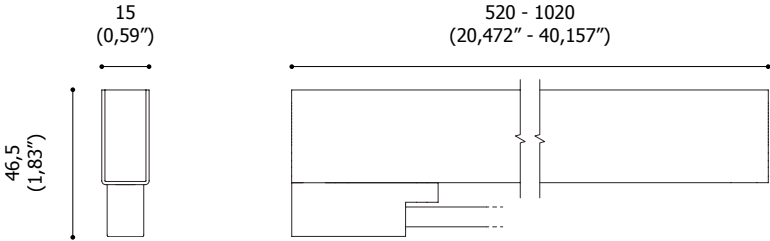
IP68 30 m (98,42 ft)

Notes

the temperature of the metal near the LED should not exceed 90°C (194 °F)

the bending diameter of the cable must be at least equal to three times the diameter of the cable

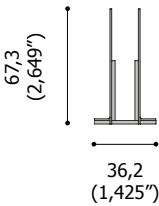non-UL/CUL certified versions can be certified on request

TECHNICAL DRAWINGS

Stainless steel

15
(0,59")

520 - 1020
(20,472" - 40,157")

46,5
(1,83")

RECESSING BOXES

Type A - stainless steel 316L

CSF.0103.0   trimless recessing box 520 mm (20,472")

CSF.0104.0   trimless recessing box 1020 mm (40,157")

67,3
(2,649")

36,2
(1,425")

ACCESSORIES

ACC.0145.0

couple of end caps for stainless steel recessing box

73,3
(2,885")

35,2
(1,385")
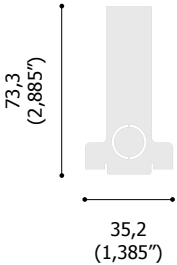
ACC.0004.0

tool for pulling out the module from the housing box

ACC.0006.0

fixing spring

14,1
(0,555")

27,5
(1,082")
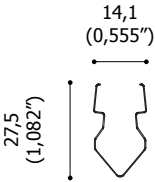
Advices for springs application

2 springs: 520mm (20,472")

3 springs: 1020mm (40,157")

STAINLESS STEEL VERSION TECHNICAL INFORMATION

Body	stainless steel 316L, resin
Screen	resin
Finish	satin stainless steel
Optics	transparent (45°) or opal (109°) diffuser
Screws	stainless steel
Installation	recessed in recessing box
Power supply cables	see table page 326
	for pool applications: 5 meters (16,4 ft) long cables
LED colors	2700 K, 3000 K, 3300 K, 3700 K, 5200 K, RGB, RGB MOVE
Power supply	24 Vdc (±5%) constant voltage - parallel connection
Absorbed power per meter	monochromatic: Mid Power LED 8 W (pitch 20 mm - 0,787")
	RGB: Signal LED 15 W (pitch 20 mm - 0,787")
Luminous efficiency	mid Power LED 140 - 180 lm/W
CRI	Ra > 80
Chromatic selection	MacAdam 3-step
Recommended installation	recessed (wall, floor) - immersion
Working temperature	-30°C ÷ 50°C (-22°F ÷ 122°F)
Surface temperature	Ts ≤ 65°C (149°F)
Static load resistance	2000 kg (4.409 Lbs)
Weight per meter	1100 g (2.42 Lbs)
Protection degree	IP66/IP68 - 30 meters (98,42 ft), IK10
Markings	CE, UL (stainless steel versions only)
Norms	products comply norms UL 676; CSA C22.2 No. 89-15; UL 2018; UL 1598/C250.-08
Certificate number	20190727-E506879 wet-niche swimming pool

Recommended installation
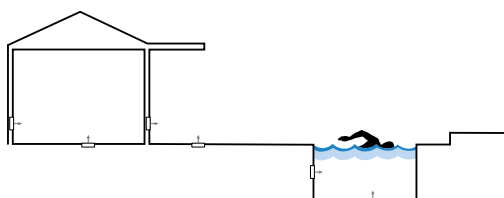
for pool applications use the specific suffix .U
Example: EK1.02.T30S1.U

Features

◇ III	IP66	IP68	⧓	IK10	🔧	4.409 Lbs	C€	c UL us LISTED	⌧	✓ RoHS	CFC	1382°F

IP68 30 m (98,42 ft)

Notes

the temperature of the metal near the LED should not exceed 90°C (194 °F)

the bending diameter of the cable must be at least equal to three times the diameter of the cable

Touch Chalet center & restaurant - Porto Sant'Elpidio, Italy