

# EK2



**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:** 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 (50°) or opal diffuser (111°)

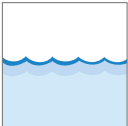
**Functions:** on-off, dimmable

**Features:** reduced dimensions  
lengths up to 2 meters (78,74")

**Power supply:** 24 Vdc constant voltage



**UL LISTED FOR HUMAN TOUCH**  
stainless steel version



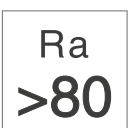
**IP68 SUBMERSIBLE**  
aluminium version



**WALK OVER**



Made in Italy



LED colours



Features



Installation





Made in Italy

Ra  
>803-STEP  
MACADAM-22°F  
122°F140 - 180  
lm/W

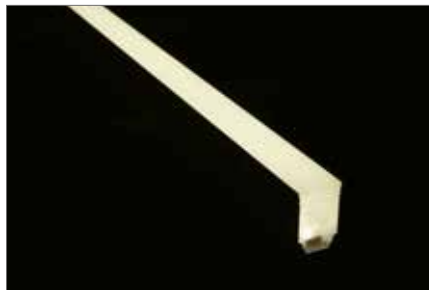
## MID POWER LED 24 Vdc MONOCHROMATIC

example EK2.02.T30A1.0

pitch [in]	length [mm + in]	power [W]	code	+	optics	+	LED colors	+	finishes	+	release
0,787	520 (20,472")	6	<b>EK2.01</b>		.T transparent diffuser 50°		27 warm white 2700 K		A1 anodized aluminium		.0
	1020 (40,157")	12	<b>EK2.02</b>				30 warm white 3000 K				
	1520 (59,842")	18	<b>EK2.03</b>				33 warm white 3300 K				
	2020 (79,527")	24	<b>EK2.04</b>		.D opal diffuser 111°		37 neutral white 3700 K				
							52 cool white 5200 K				
corner		5	<b>EK2.51</b>								
external edge		5	<b>EK2.52</b>								



EK2 2700 K



EK2 3000 K



EK2 3700 K

## Page references

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Connection diagrams

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## Notes

24 Vdc constant voltage supply dimmable, parallel connection

LED with different color temperatures are available on request



Granary Wharf - Leeds, England



### SIGNAL LED 24 Vdc RGB

example EK2.02.D90A1.0

pitch [in]	length [mm + in]	power [W]	code	+	optics	+	LED colors	+	finishes	+	release				
0,787	520 (20,472")	8	<b>EK2.01</b>		.T		transparent diffuser	50°	<b>90</b>		RGB	<b>A1</b>		anodized aluminium	<b>.0</b>
	1020 (40,157")	15	<b>EK2.02</b>												
	1520 (59,842")	23	<b>EK2.03</b>		.D		opal diffuser	111°							
	2020 (79,527")	30	<b>EK2.04</b>												
	corner	6	<b>EK2.51</b>												
	external edge	6	<b>EK2.52</b>												

### SIGNAL LED 24 Vdc RGB MOVE

example EK2.04.D92A1.0

pitch [in]	length [mm + in]	power [W]	code	+	optics	+	LED colors	+	finishes	+	release				
0,984	520 (20,472")	6	<b>EK2.01</b>		.D		opal diffuser	111°	<b>92</b>		RGB MOVE	<b>A1</b>		anodized aluminium	<b>.0</b>
	1020 (40,157")	12	<b>EK2.02</b>												
	1520 (59,842")	18	<b>EK2.03</b>												
	2020 (79,527")	24	<b>EK2.04</b>												



EK2 installed in trimless recessing box



EK2 installed in recessing box with trim



Integrated cable protection lock

#### Page references

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Connection diagrams

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MOVE: M1

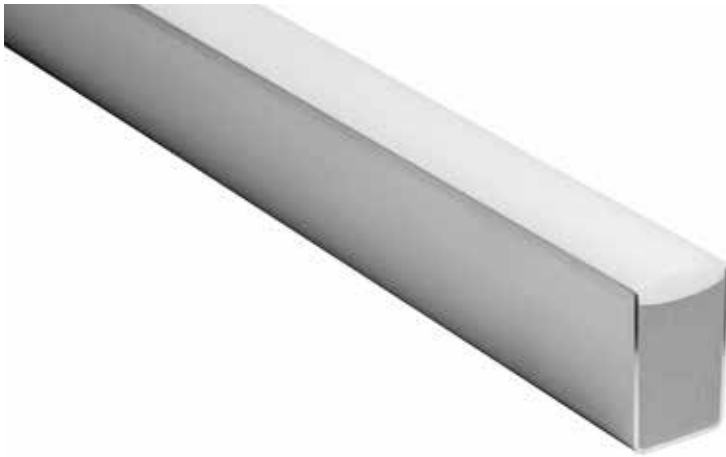
#### Notes

24 Vdc constant voltage supply dimmable, parallel connection



Granary Wharf - Leeds, England

Made in Italy

Ra  
>803-STEP  
MACADAM-22°F  
122°F140 - 180  
lm/W

## MID POWER LED 24 Vdc MONOCHROMATIC

example EK2.02.T30S1.0

pitch [in]	length [mm + in]	power [W]	code	+	optics	+	LED colors	+	finishes	+	release
0,787	520 (20,472")	6	<b>EK2.01</b>		.T transparent diffuser 50°		27 warm white 2700 K		S1 satin stainless steel		.0
	1020 (40,157")	12	<b>EK2.02</b>		.D opal diffuser 111°		30 warm white 3000 K				
							33 warm white 3300 K				
							37 neutral white 3700 K				
							52 cool white 5200 K				
										★ code only for pool applications	.U



EK2 installed in pool

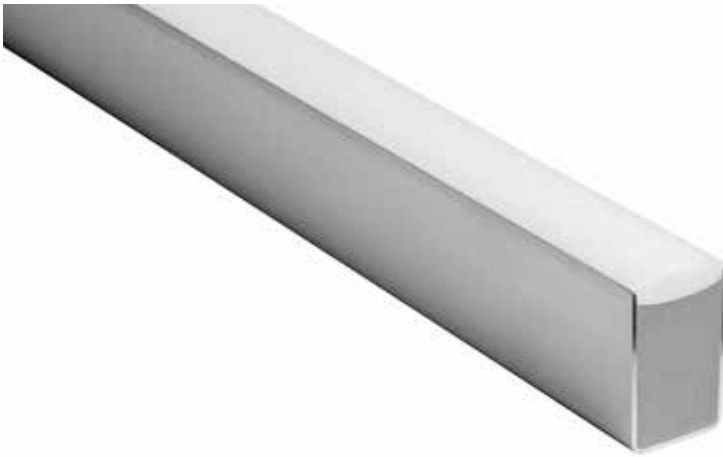
## Page references

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## 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



**SIGNAL LED 24 Vdc RGB**

*example EK2.02.D90S1.0*

pitch [in]	length [mm + in]	power [W]	code	+	optics	+	LED colors	+	finishes	+	release
0,787	520 (20,472")	8	<b>EK2.01</b>		<b>.T</b> transparent diffuser 50°		<b>90</b>  RGB		<b>S1</b>  satin stainless steel		<b>.0</b>
	1020 (40,157")	15	<b>EK2.02</b>		<b>.D</b> opal diffuser 111°						

★ code only for pool applications **.U**



Waterproof connection box ACC.0147.0 installed in EK2 recessing box

**Page references**

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**Notes**

24 Vdc constant voltage supply dimmable, parallel connection

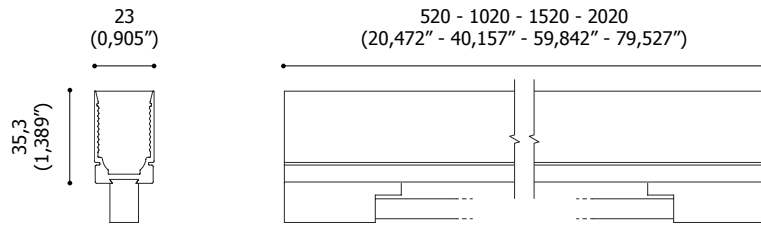
★ Use the .U suffix specifically for use in swimming pools



## TECHNICAL DRAWINGS

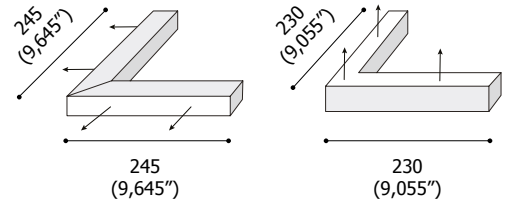
dimensions in mm (in)

Aluminium



External edge

Corner

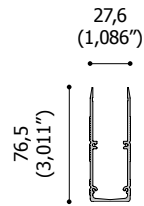


The double cable exit is only present in MOVE versions

## RECESSING BOXES

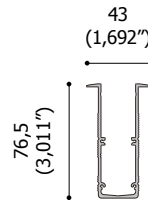
Type A - anodized aluminium

- CSF.0045.0** trimless recessing box 520 mm (20,472")
- CSF.0046.0** trimless recessing box 1020 mm (40,157")
- CSF.0047.0** trimless recessing box 1520 mm (59,842")
- CSF.0048.0** trimless recessing box 2020 mm (79,527")



Type B - anodized aluminium

- CSF.0049.0** recessing box with trim 520 mm (20,472")
- CSF.0050.0** recessing box with trim 1020 mm (40,157")
- CSF.0051.0** recessing box with trim 1520 mm (59,842")
- CSF.0052.0** recessing box with trim 2020 mm (79,527")



For corner or external edge products, order a linear recessing box to be cut on site.

## ACCESSORIES

**ACC.0060.0**

couple of end caps for recessing box

**ACC.0003.0**

alignment kit for housing boxes type A and B

**ACC.0019.0**

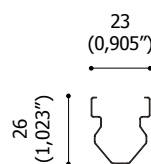
tool for pulling out the module from the housing box

**ACC.0028.0**

safety steel wire for ceiling installation for preventing accidental fall

**ACC.0074.0**

fixing spring

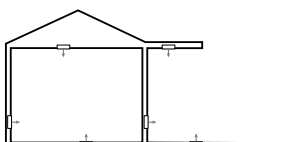
**Advices for springs application**

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")

## ALUMINIUM VERSION TECHNICAL INFORMATION

<b>Body</b>	aluminium, resin
<b>Screen</b>	resin
<b>Finish</b>	anodized aluminium
<b>Optics</b>	transparent (50°) or opal (111°) diffuser
<b>Screws</b>	stainless steel
<b>Installation</b>	recessed in recessing box
<b>Power supply cables</b>	see table page 326
<b>LED colors</b>	2700 K, 3000 K, 3300 K, 3700 K, 5200 K, RGB, RGB MOVE
<b>Power supply</b>	24 Vdc (±5%) constant voltage - parallel connection
<b>Absorbed power per meter</b>	monochromatic: Mid Power LED 12 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")
<b>Luminous efficiency</b>	mid Power LED 140 - 180 lm/W
<b>CRI</b>	Ra > 80
<b>Chromatic selection</b>	MacAdam 3-step
<b>Recommended installation</b>	recessed (wall, floor, ceiling) - immersion
<b>Working temperature</b>	-30°C ÷ 50°C (-22°F ÷ 122°F)
<b>Surface temperature</b>	Ts ≤ 65°C (149°F)
<b>Static load resistance</b>	2000 kg (4.409 Lbs)
<b>Weight per meter</b>	1250 g (2.75 Lbs)
<b>Protection degree</b>	IP66/IP68 - 30 meters (98,42 ft), IK10
<b>Markings</b>	CE, UL
<b>Norms</b>	products comply norms UL 676; CSA C22.2 No. 89-15; UL 2018; UL 1598/C250.-08 ;
<b>Certificate number</b>	20190726-E506880 submersible luminaires

## Recommended installation



## Features



IP68 30 m (98,42 ft)

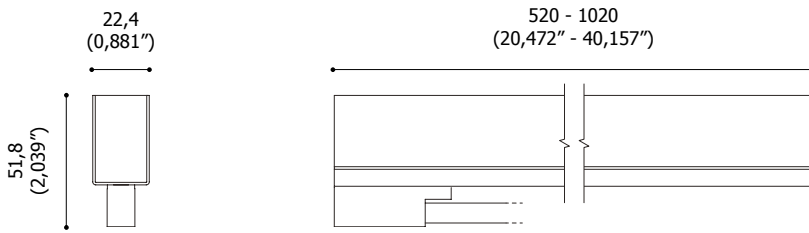
## Notes

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

## TECHNICAL DRAWINGS

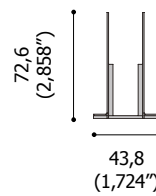
dimensions in mm (in)

Stainless steel



## RECESSING BOXES

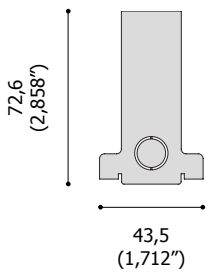
Type A - stainless steel

**CSF.0105.0** trimless recessing box 520 mm (2,472")**CSF.0106.0** trimless recessing box 1020 mm (40,157")

## ACCESSORIES

**ACC.0146.0**

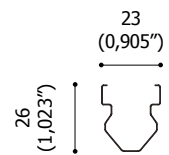
couple of end caps for stainless steel recessing box

**ACC.0019.0**

tool for pulling out the module from the housing box

**ACC.0074.0**

fixing spring

**Advices for springs application**

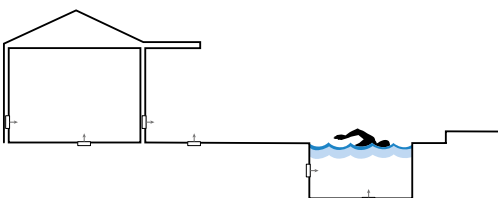
2 springs: 520mm (20,472")

3 springs: 1020mm (40,157")

**STAINLESS STEEL VERSION TECHNICAL INFORMATION**

<b>Body</b>	stainless steel 316L, resin
<b>Screen</b>	resin
<b>Finish</b>	satın stainless steel
<b>Optics</b>	transparent (50°) or opal (111°) diffuser
<b>Screws</b>	stainless steel
<b>Installation</b>	recessed in recessing box
<b>Power supply cables</b>	see table page 326 for pool applications: 5 meters (16,4 ft) long cables
<b>LED colors</b>	2700 K, 3000 K, 3300 K, 3700 K, 5200 K, RGB, RGB MOVE
<b>Power supply</b>	24 Vdc (±5%) constant voltage - parallel connection
<b>Absorbed power per meter</b>	monochromatic: Mid Power LED 12 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")
<b>Luminous efficiency</b>	mid Power LED 140 - 180 lm/W
<b>CRI</b>	Ra > 80
<b>Chromatic selection</b>	MacAdam 3-step
<b>Recommended installation</b>	recessed (wall, floor) - immersion
<b>Working temperature</b>	-30°C ÷ 50°C (-22°F ÷ 122°F)
<b>Surface temperature</b>	Ts ≤ 65°C (149°F)
<b>Static load resistance</b>	2000 kg (4.409 Lbs)
<b>Weight per meter</b>	1700 g (3.74 Lbs)
<b>Protection degree</b>	IP66/IP68 - 30 meters (98,42 ft), IK10
<b>Markings</b>	CE, UL
<b>Norms</b>	products comply norms UL 676; CSA C22.2 No. 89-15; UL 2018; UL 1598/C250.-08
<b>Certificate number</b>	20190727-E506879 wet-niche swimming pool 20191127-E506880 submersible luminaires

**Recommended installation**



for pool applications use the specific suffix .U  
Example: EK2.02.T30S1.U

**Features**



**IP68** 30 m (98,42 ft)

**Notes**

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



