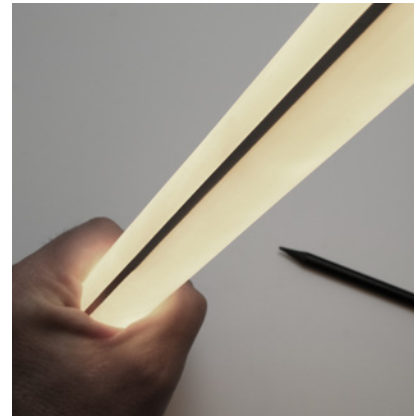


Linear

# FLO Stem Fixture Guide

# KKDÖ

Outdoor | Surface | Output up to 1159lm/m (353lm/ft)

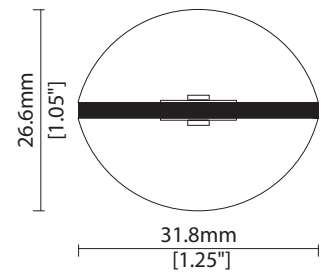


## Key applications

- ✓ Direct lighting
- ✓ Gardens
- ✓ Orientation lighting
- ✓ Pathways/Driveways
- ✓ Wet area

## Key features

- ✓ Custom lengths
- ✓ Constant voltage (CV)
- ✓ Decorative
- ✓ Diffusion: homogenous
- ✓ Extensive CCT range
- ✓ High impact resistance
- ✓ Illuminated ends
- ✓ IP68



Linear

# FLO Stem

## Specification sheet



<b>Dimensions</b>	H28/W31.75/L342-1217mm (1.10/1.25/13.46-47.91in)
<b>PCB Cut-point</b>	62.5mm increment/1000mm max (2.46in increment/39.37in max)
<b>LED Pitch</b>	10.4mm - 192LED/m (0.41in - 58LED/ft)
<b>Chip</b>	<b>s-line</b> <b>k-line</b>
<b>Cover/Optics</b>	Diffused resin (130deg x2)
<b>CCT</b>	<b>s-line:</b> 1900K/2100K/2300K/2500K/2700K/3000K/3500K/4000K/5000K <b>k-line:</b> 1900K/2100K/2300K/2500K/2700K/3000K/3500K/4000K/5000K
<b>LED binning</b>	<b>s-line:</b> 2-step MacAdam ellipse <b>k-line:</b> 3-step MacAdam ellipse
<b>CRI</b>	88
<b>Lifetime</b>	50,000 hours @ 25°C (50,000 hours @ 77°F)
<b>Operating temp</b>	T <sub>a</sub> = -25 to 40°C (T <sub>c</sub> max = 75°C) T <sub>a</sub> = -13 to 104°F (T <sub>c</sub> max = 167°F)
<b>IP Rating</b>	IP68
<b>Finish</b>	Custom alabaster marble effect resin/Anodized aluminium
<b>Mounting</b>	Ground spike
<b>Power feed</b>	Hardwire tail
<b>Control</b>	0-10V/1-10V/DMX/DALI



### LED Grading Key

#### Exclusive Grade

<b>s</b> s-line*	*KKDC tuned CCT range
2-step CCT range	CCT range

#### Base Grade

<b>k</b> k-line
3-step commercial range
Energy Star CCTs

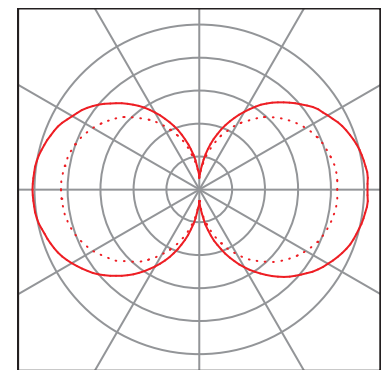
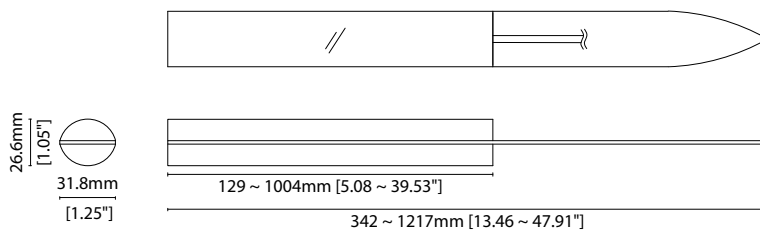
<b>Power consumption</b>	<b>Supply voltage</b>	<b>Supply current</b>
36W/m (10.97W/ft)	24V DC	1.5A/m (0.46A/ft)

### Performance Data (3000K)

	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
<b>s-line</b>	87	90	93	88	85	86	94	80	49	77	87	64	87	96

### Diffused

<b>s-line</b>	1159lm/m (353lm/ft)	32.2lm/W	<b>CRI</b>	<b>R9</b>	<b>Rf</b>	<b>Rg</b>
			88	49	-	-



Diffused  
— C0 / C180      cd / 1000 lm      ···· C90 / C270

Data derived from independent UKAS / IESNA LM-79-08 accredited testing of production samples.

# FLO Stem Code Table



## FIXTURE

Model	Grade <sup>1</sup>	LED	Colour (CCT)	Length Availability <sup>2</sup>	IP	Cable Length	Power Feed <sup>3</sup>	Input								
FLO Stem	FT	s	FX18 R918	1900K	19	m	129-1004mm 62.5mm increments	IP68	68	3000mm (118.11in) 5000mm (196.85in)	3000 5000	Single ø4.3mm sheath tail	S00A	DC 24V	g	
				2100K	21											
					2300K	23	i	5.08-39.53in 2.46in increments								
					2500K	25										
					2700K	27										
					3000K	30										
					3500K	35										
					4000K	40										
					5000K	50										
					(Specify length code based on Resin part of fitting)											

<sup>1</sup> Refer to **LED Grading Key** on **Specification sheet** page

<sup>2</sup> Refer to **Length Availability List** or enter total run length instead of length code

<sup>3</sup> Refer to **Power Feed Options** on **Options** pages

## Code Example:

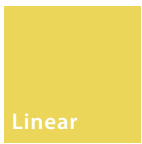
FT	-	s	-	R918	-	35	-	m	-	0504	-	68	-	0050	-	S00A	-	g
FLO Stem				FX18		3500K				504mm		IP68		50mm/1.97"		Single ø4.3mm sheath tail		DC 24V

## ACCESSORIES

### PSU/Driver

0-10V/1-10V/DALI/DMX

\* Refer to **Driver/PSU Options** page for details or provide requirement and KKDC to offer the suitable option



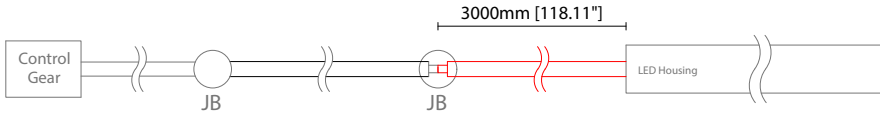
# FLO Stem Options



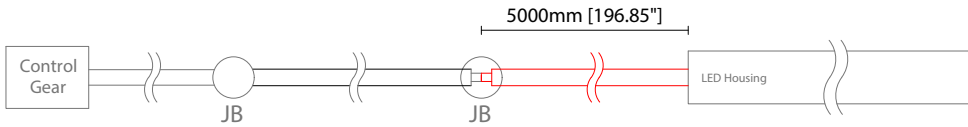
## POWER FEED OPTIONS

\* Options are an integral part of the fixture ordering codes. Please refer to **Code Table** pages.

3000 S00A 3000mm (118.11") Single  $\varnothing$ 4.3mm sheath tail



5000 S00A 5000mm (196.85") Single  $\varnothing$ 4.3mm sheath tail



### Key

Control Gear Power supply, sub-controllers & control systems

JB Junction box / cable connection

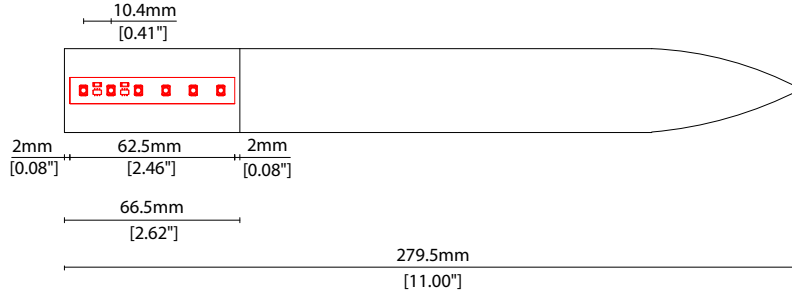
# FLO Stem Length Availability List



Length Code		Fixture Length <sup>1</sup>		LED Strip <sup>2</sup>		End Cap Dimension		Wattage (W)	Output (lm)
Metric	Imperial(US)	Metric	Imperial(US)	Metric	Imperial(US)	Metric	Imperial(US)		3000K (Test Data)
m0129	i0005	342mm	13.46in	125mm	4.92in	N/A	N/A	4.50	144
m0192	i0008	405mm	15.93in	188mm	7.38in	N/A	N/A	6.75	216
m0254	i0010	467mm	18.39in	250mm	9.84in	N/A	N/A	9.00	288
m0317	i0012	530mm	20.85in	313mm	12.30in	N/A	N/A	11.25	360
m0379	i0015	592mm	23.31in	375mm	14.76in	N/A	N/A	13.50	432
m0442	i0017	655mm	25.77in	438mm	17.22in	N/A	N/A	15.75	504
m0504	i0020	717mm	28.23in	500mm	19.69in	N/A	N/A	18.00	576
m0567	i0022	780mm	30.69in	563mm	22.15in	N/A	N/A	20.25	648
m0629	i0025	842mm	33.15in	625mm	24.61in	N/A	N/A	22.50	720
m0692	i0027	905mm	35.61in	688mm	27.07in	N/A	N/A	24.75	792
m0754	i0030	967mm	38.07in	750mm	29.53in	N/A	N/A	27.00	864
m0817	i0032	1030mm	40.53in	813mm	31.99in	N/A	N/A	29.25	936
m0879	i0035	1092mm	42.99in	875mm	34.45in	N/A	N/A	31.50	1008
m0942	i0037	1155mm	45.45in	938mm	36.91in	N/A	N/A	33.75	1080
m1004	i0040	1217mm	47.91in	1000mm	39.37in	N/A	N/A	36.00	1152

<sup>1</sup> Actual total overall length of light fixture

<sup>2</sup> Actual length of PCB strip



## KKDC CONTROL

---



IP20  
Plastic housing  
L170/W59/H29mm  
(L6.69/W2.32/H1.14in)

### KKDM-06 1-10V

visDIM dimmable sub-controller  
(4 x 8A max @ 12-36V)



IP20  
Plastic housing  
L170/W53.4/H28mm  
(L6.69/W2.10/H1.10in)

### KKSC-05 DMX

visDIM dimmable sub-controller  
(4 x 5A max @ 12-36V)



IP20  
Plastic housing  
L170/W59/H29mm  
(L6.69/W2.32/H1.14in)

### KKDL-02 DALI

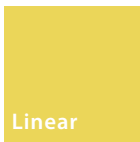
visDIM dimmable sub-controller  
(4 x 8A max @ 12-36V)



IP20  
Plastic housing  
L166/W53.4/H23mm  
(L6.54/W2.10/H0.91in)

### KKDL-03 DALI

visDIM dimmable sub-controller  
(4 x 5A max @ 12-36V)



# FLO

## Driver/PSU Options



### AVAILABLE PSU OPTIONS

Control Mode	PSU (Order Code)	Input Voltage AC	Output Voltage DC	Rated Output Current	Rated Power	Dim %	IP Rating
Switched	CEN-60-24	90-295V	24V	2.5A	60W	-	IP67
	HLG-60H-24	90-305V	24V	2.5A	60W	-	IP67
	HLG-100H-24	90-305V	24V	4.0A	100W	-	IP67
	HLG-150H-24	90-305V	24V	6.3A	150W	-	IP67
	HLG-240H-24	90-305V	24V	10A	240W	-	IP67
0-10V (1-10V)	PWM-40-24	90-305V	24V	1.67A	40W	100-0.15 (100-10)	IP67
	PWM-60-24	90-305V	24V	2.5A	60W	100-0.15 (100-10)	IP67
	PWM-90-24	90-305V	24V	3.67A	90W	100-0.15 (100-10)	IP67
	PWM-120-24	90-305V	24V	5.0A	120W	100-0.15 (100-10)	IP67
DALI	LIN100A1	120-277V	24V	1A per channel	100W	100-0.1	IP66/IP40
DMX RGB	LIN100A1	120-277V	24V	1.33A per channel	100W	100-0.1	IP66/IP40
DMX RGBW	LIN100A1	120-277A	24V	1A per channel	100W	100-0.1	IP66/IP40

### Flicker Free Options - Combination of PSU+ sub-controller

Control Mode	PSU (Order Code)	Sub-controller (Order Code)	Input Voltage AC	Output Voltage DC	Rated Output Current	Rated Power	Dim %	IP Rating PSU/ Sub-controller
0-10V or 1-10V	CEN-60-24	KKDM-06	90-295V	24V	2.5A	60W	100-0.9	IP67/IP20
	HLG-60H-24	KKDM-06	90-295V	24V	2.5A	60W	100-0.9	IP67/IP20
	HLG-100H-24	KKDM-06	90-295V	24V	4.0A	100W	100-0.9	IP67/IP20
	HLG-150H-24	KKDM-06	90-295V	24V	6.3A	150W	100-0.9	IP67/IP20
	HLG-240H-24	KKDM-06	90-295V	24V	10.0A	240W	100-0.9	IP67/IP20
DALI	CEN-60-24	KKDL-02/03	90-295V	24V	2.5A	60W	100-0.1	IP67/IP20
	HLG-60H-24	KKDL-02/03	90-305V	24V	2.5A	60W	100-0.1	IP67/IP20
	HLG-100H-24	KKDL-02/03	90-305V	24V	4.0A	100W	100-0.1	IP67/IP20
	HLG-150H-24	KKDL-02/03	90-305V	24V	6.3A	150W	100-0.1	IP67/IP20
	HLG-240H-24	KKDL-02/03	90-305V	24V	10.0A	240W	100-0.1	IP67/IP20
DMX RGB	CEN-60-24	KKSC-05	90-295V	24V	2.5A	60W	100-0.9	IP67/IP20
	HLG-60H-24	KKSC-05	90-305V	24V	2.5A	60W	100-0.9	IP67/IP20
	HLG-100H-24	KKSC-05	90-305V	24V	4A	100W	100-0.9	IP67/IP20
	HLG-150H-24	KKSC-05	90-305V	24V	6.3A	150W	100-0.9	IP67/IP20
	HLG-240H-24	KKSC-05	90-305V	24V	10.0A	240W	100-0.9	IP67/IP20

<sup>1</sup> The items shown above cover the most frequently used specification but does not exhaust the possible options

<sup>2</sup> PSU and/or driver can be chosen from the table, or KKDC may recommend the best option upon receipt of the controls requirement and installation environment

<sup>3</sup> Electrical shop drawing will include detailed information of PSU and relevant control drivers

<sup>4</sup> Cut sheets are available on the controls section of [www.kkdc.lighting](http://www.kkdc.lighting) or upon request