

**DATE**                      **PROJECT**                      **LOCATION**                      **TYPE**



### PRODUCT FEATURES

- Flexible luminaire with optics
- Dual Bend Direction
- IP 67 rating for Interior and exterior applications
- 90+ CRI Standard
- Beam angles (20°, 35°, 45°, 20°x 40°)
- Field-cut 55.4mm (2.18")
- Dim to Warm/Tunable White Available (2200K-4000K)
- Angled Mounting Bracket Option
- Flexible Extrusion Options
- Shielding Louver Options
- Straight and Bottom feed options
- Control with 0-10V, Forward Phase, DALI, DMX, Zigbee

### PRODUCT SPECIFICATIONS

Lamp Power	18.7W/M (5.7W/ft)
Power Input	24V DC Constant Voltage
Color Rendering Index	CRI >90
Available CCTs	2700K, 3000K, 3500K, 4000K, SC(2200K~4000K)
Operating Temperature Ranges	-4°F to 104°F (-20°C to 40°C)
Control	0-10V, Forward Phase, DALI, DMX, Zigbee
Material	Silicone
Beam Angle	20°, 35°, 45°, 20°x 40°
Maximum Length	5,000mm (16.4')
Minimum Length	55.4mm (2.18")
Bend Diameter	200mm (7.9")
Lamp life	50,000hr / 70%
Warranty	5 year Warranty
IP Rate	IP67 with Factory Termination
	IP65 with Field Termination

### SPECIFICATION



Performance data shown below for 4000K CCT. Refer to individual luminaire IES files for other CCT options.

Model Name	Power Input	Lamp Power	Luminous Flux	Lumen/W	Color Rendering Index	Color Temperature	Beam Angle	Operating Temperature
FNL 3D (color)K-24V-C90-20-1M	DC 24V	5.7 W/ft	427 lm/ft	75 lm/W	CRI > 90	2700K 3000K 3500K 4000K	20° 35° 45° 20x40°	-20°C to 40°C (-4°F to 104°F)
FNL 3D (color)K-24V-C90-20-2M		5.4 W/ft	399 lm/ft	74 lm/W				
FNL 3D (color)K-24V-C90-20-3M		5.1 W/ft	402 lm/ft	79 lm/W				
FNL 3D (color)K-24V-C90-20-4M		4.8 W/ft	388 lm/ft	81 lm/W				
FNL 3D (color)K-24V-C90-20-5M		4.6 W/ft	354 lm/ft	77 lm/W				

### SPECIFICATION GUIDE

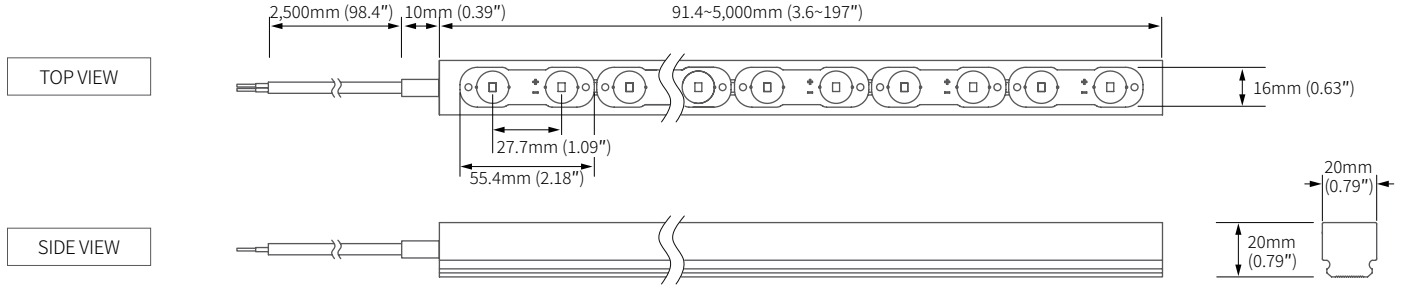
NOT TO BE USED FOR ORDERING. The Specification Guide is intended solely to ensure that all options are considered.

MODEL	COLOR	FEED TYPE	BEAM ANGLE	MOUNTING	EXTRUSION	DRIVER	CONTROLS	VOLTAGE
FNL 3D	27K -2700K 30K -3000K 35K -3500K 40K -4000K SC-2200K~4000K	STD - Straight Feed BS - Bottom Feed	20° 35° 45° 20x40°	STD - Flat Brackets BK2 - Angled bracket	EXL-3.3' Extrusion EXL-FLEX - 3.3' Flexible Extrusion EXL-FLEX-AG - 3.3' Flexible Antiglare Extrusion	CP - Cable/Plug HW - Hard Wire TD - 3rd Party Drivers Consult Factory	NDM - Non-Dim 0-10V FPH - Forward Phase DALI - DALI Interface DMX - DMX Interface	120V 230V 277V

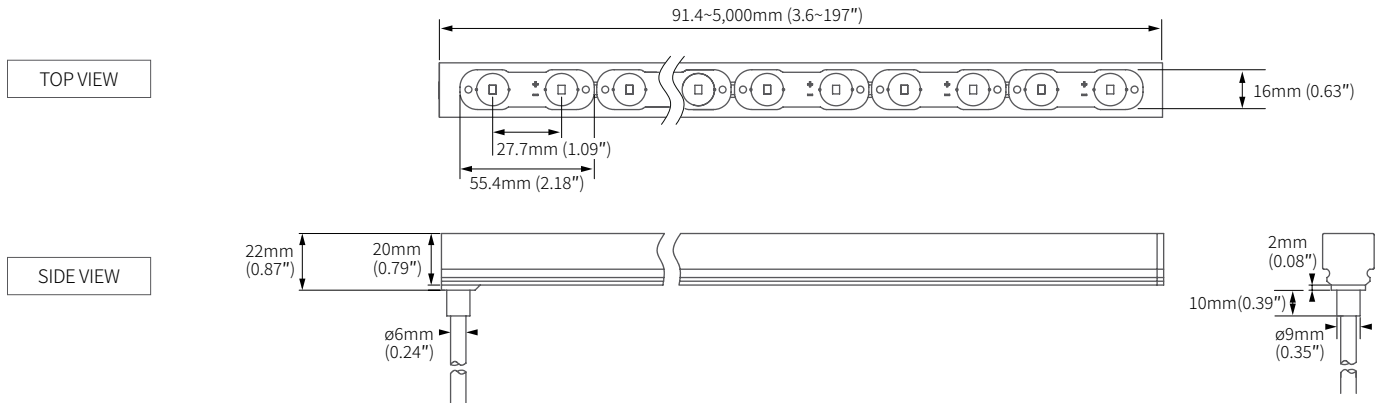
## DIMENSIONS

Available in Standard Lengths of 1, 2, 3, 4, 5M reels

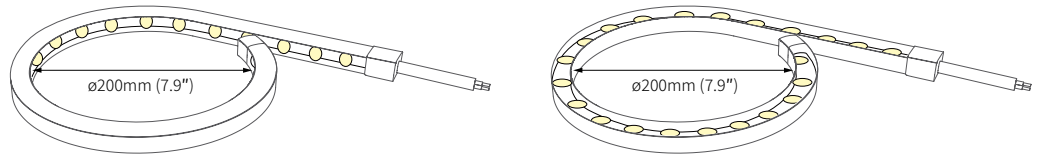
### \* Straight Feed



### \* Bottom Feed

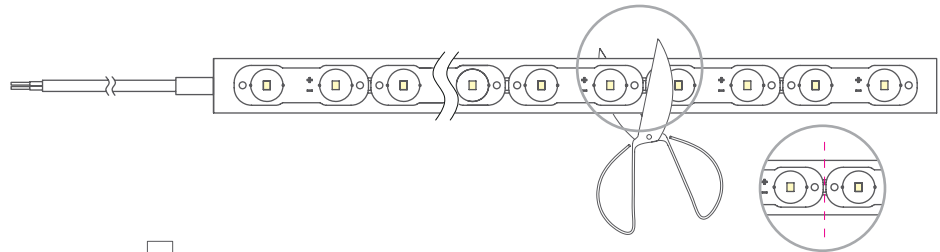


## BENDING DIAMETER

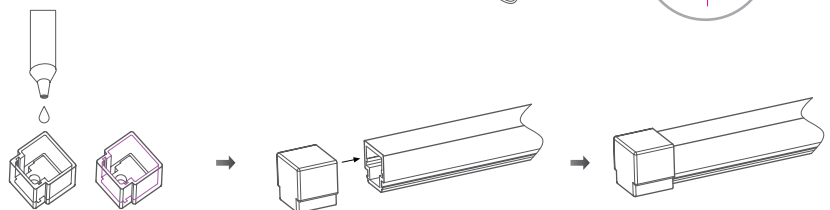


## INSTALLATION

① Cutting Point: Every 55.4mm (2.18")

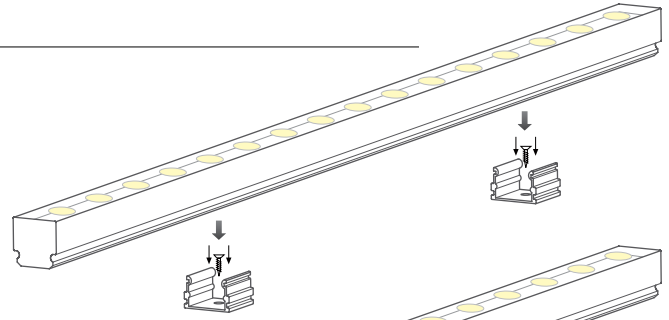
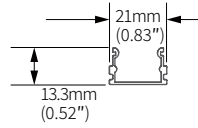


② Use Silicon Glue to Attach the End Cap

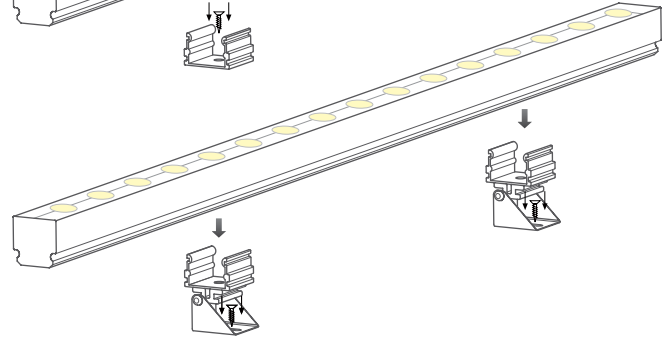
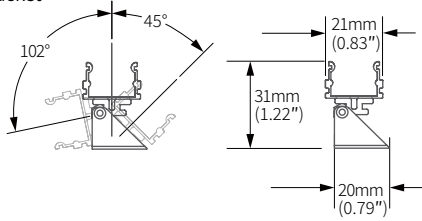


## INSTALLATION

### \* Bracket



### \* Angle Bracket



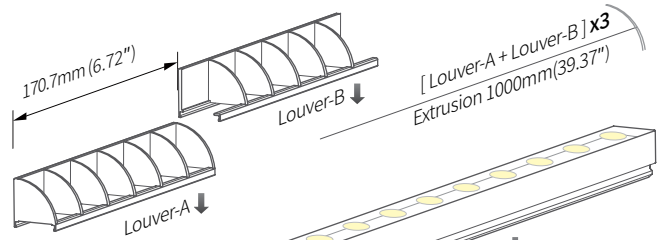
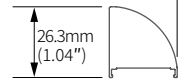
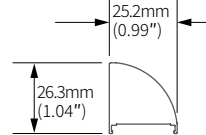
### \* Louver

FNL 3D Louver Kit(6pcs)/1000mm

: Louver A(x3)

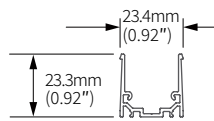


+ Louver B(x3)

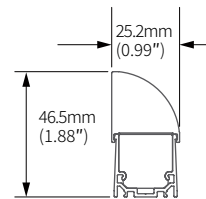


### \* Extrusion Line

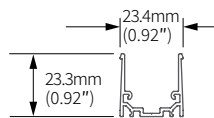
FNL3D-EXL



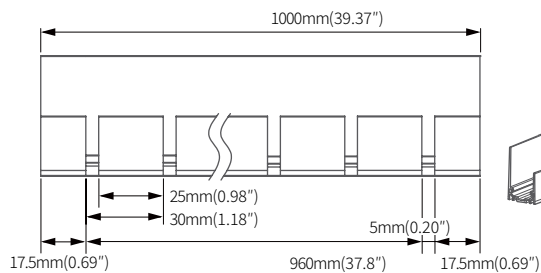
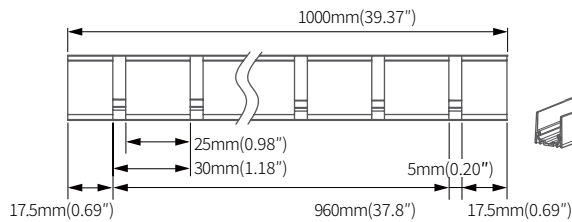
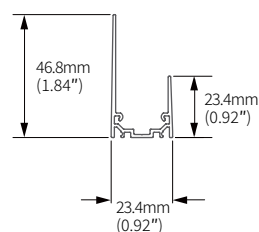
FNL3D-EXL+FNL 3D Louver



FNL 3D-EXL-FLEX

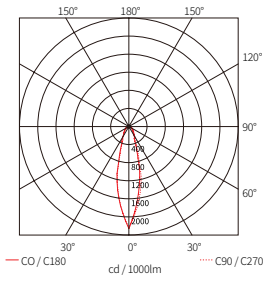


FNL 3D-EXL-FLEX-AG

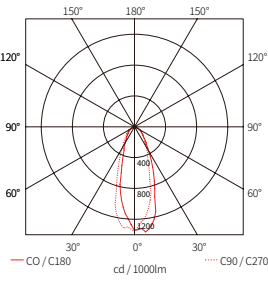


## BEAM SPREADS

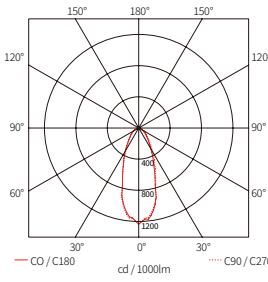
FNL 3D-40K-C90-20  
80.37lm/W 1,505lm



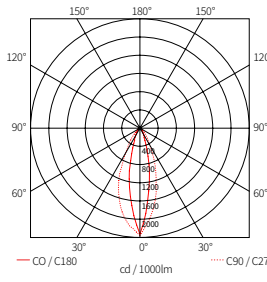
FNL 3D-40K-C90-35  
83.8lm/W 1,521lm



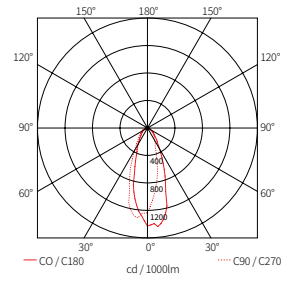
FNL 3D-40K-C90-45  
85.32lm/W 1,541lm



FNL 3D-40K-C90-20X40  
81.28lm/W 1,467lm



FNL 3D SC-24V-C90-35  
75.3lm/W 1,505lm



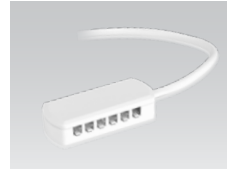
## COMPONENTS



**FLXible Neon Lens 3D-Straight Feed**  
 \_\_FNL 3D-(color)K-24V-C90-20\* (1M)  
 \_\_FNL 3D-(color)K-24V-C90-20\* (2M)  
 \_\_FNL 3D-(color)K-24V-C90-20\* (3M)  
 \_\_FNL 3D-(color)K-24V-C90-20\* (4M)  
 \_\_FNL 3D-(color)K-24V-C90-20\* (5M)  
 • Other beam angles available



**Dimming Interface (0-10V)**  
 \_\_FDC-L10 \*  
 Max. 100W (100W/CH, 1CH)



**12 Port Hub**  
 \_\_D12P-HUB  
 Included with Cord and Plug drivers. Order separately for Hard Wire or 3rd Party Drivers



**FLXible Neon Lens 3D-Bottom Feed**  
 \_\_FNL 3D-(color)K-24V-C90-BS-20\* (1M)  
 \_\_FNL 3D-(color)K-24V-C90-BS-20\* (2M)  
 \_\_FNL 3D-(color)K-24V-C90-BS-20\* (3M)  
 \_\_FNL 3D-(color)K-24V-C90-BS-20\* (4M)  
 \_\_FNL 3D-(color)K-24V-C90-BS-20\* (5M)  
 • Other beam angles available



**Control Interface (0-10V)**  
 \_\_FDD-L20 \*\*  
 Max. 200W (100W/CH, 2CH)



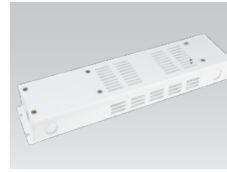
**LED Drivers**  
 \_\_FLC30-24V/XL (30W) \*  
 \_\_FLC75-24V/XL (75W) \*  
 With distributor and power cord 1800mm (6')



**FLXible Neon Lens 3D-Straight Feed Dim to Warm/Tunable White**  
 \_\_FNL 3D SC-24V-C90-20\* (1M)  
 \_\_FNL 3D SC-24V-C90-20\* (2M)  
 \_\_FNL 3D SC-24V-C90-20\* (3M)  
 \_\_FNL 3D SC-24V-C90-20\* (4M)  
 \_\_FNL 3D SC-24V-C90-20\* (5M)  
 • Other beam angles available



**Control Interface (DALI)**  
 \_\_FDD-L1DA  
 Max. 200W (100W/CH, 1CH)



**Driver Junction Box**  
 \_\_MHWB-FLE



**FLXible Neon Lens 3D-Bottom Feed Dim to Warm/Tunable White**  
 \_\_FNL 3D SC-24V-C90-BS-20\* (1M)  
 \_\_FNL 3D SC-24V-C90-BS-20\* (2M)  
 \_\_FNL 3D SC-24V-C90-BS-20\* (3M)  
 \_\_FNL 3D SC-24V-C90-BS-20\* (4M)  
 \_\_FNL 3D SC-24V-C90-BS-20\* (5M)  
 • Other beam angles available



**Control Interface (0-10V, DMX512)**  
 \_\_FDA-L2MO  
 Max. 200W (100W/CH, 2CH)  
 \_\_FDA-L5M  
 Max. 200W (50W/CH, 5CH)



**Hard Wire Driver**  
 \_\_XLD200-224V-FCL-DIM (0-10V)  
 \_\_XLD75-124V-FC \* (90V to 300V)



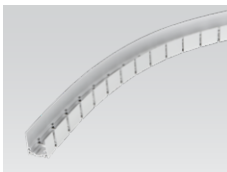
**FNL 3D Extrusion Line**  
 \_\_FNL 3D-EXL (1M)



**Control Interface (Zigbee)**  
 \_\_FDD-L2Z



**Hard Wire Driver**  
 \_\_FLE60-24V-L10-DIM (Linear)  
 \_\_FLE90-24V-L10-DIM (Linear)

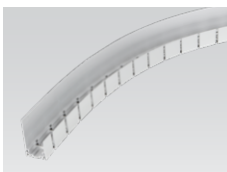


**FNL 3D Flexible Extrusion Line**  
 \_\_FNL 3D-EXL-FLEX (1M)



**Wireless Control (Zigbee Switch)**  
 \_\_FSM-Z1

**A larger selection of drivers are available including remote and hard wire drivers. Please consult factory.**



**FNL 3D Flexible Extrusion Line Louver**  
 \_\_FNL 3D-EXL-FLEX-AG (1M)

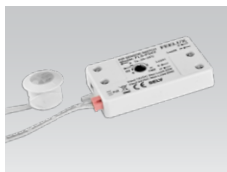


**Door and motion sensor**  
 \_\_FLS-M24V

\* FLC30, FLC75 and XLD75 require the FDC-L10 for 0-10V dimming  
 \*\* FLC30, FLC75 and XLD75 require the FDD-L20 for Dim to Warm/Tunable White



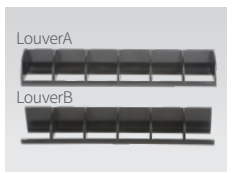
**FNL 3D Mounting Bracket**  
 \_\_FNL 3D-BRACKET1 (1set = 4pcs)



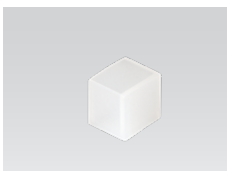
**Occupancy sensor**  
 \_\_FLS-P24V



**FNL 3D Angle Bracket**  
 \_\_FNL 3D-BRACKET2 (1set = 4pcs)



**FNL 3D Louver Kit (6pcs-1000mm)**  
 \_\_FNL 3D-Louver-BK  
 \_\_FNL 3D-Louver-WT  
 A type: 3pcs / B type: 3pcs



**FNL 3D Silicon End Cap**  
 \_\_FNL 3D-End Cap

Individual Packaging includes 1 reel, bracket(4 pcs), screw(4 pcs), and end cap(1 pc)