

# ORLUX MEDIUM

Outdoor · Vertical Bending · Horizontal Bending

### Features

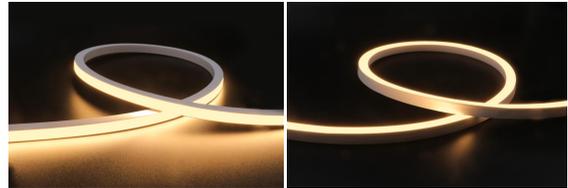
- Field-cut everywhere for an exact fit; continuous illumination with no dark gaps.
- IP67 rated, ideal for outdoor uses
- 5 years warranty

### Applications

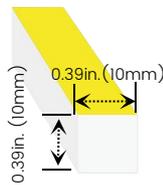
Gardens, parks, hotels, facades, pathways, outdoor steps, etc.



Date	Fixture type
Project name	Project phase

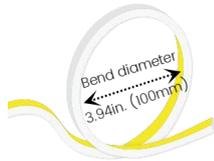


### Dimensions (Vertical Bending · Horizontal Bending)



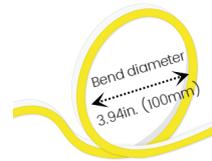
### Bending Directions & Diameters

TV - Top View (Vertical Bending)



\*Horizontal bending and 3D bending are prohibited.

SV - Side View (Horizontal Bending)



\*Vertical bending and 3D bending are prohibited.

### Order Code

Series	Environment	Voltage	Temp./Color	Power	End Cap	Assembly Builder	
						Left Feed Entry	
OTVM	W7-Wet (IP67)	24-DC24V	22-2200k	305-3.05W/ft	IJ Injected (IP67)	F Front	OW Open wire 3.28ft (1m)
OSVM			27-2700K		IJC Clear injected (IP67)	B Bottom	MC Male connector with 0.98ft (30cm) cable
			30-3000K		SEC Silicone (IP67)	S Side	FC Female connector with 0.98ft (30cm) cable
			35-3500K			C Closed	NA Only for Closed Feed Entry
			40-4000K				
			53-5300K				

\*Injected and clear injected end cap are factory-made only.

### Assembly Builder

Right Feed Entry			Length	
F Front	OW	Open wire 3.28ft (1m)	Max. nominal	16.4ft (5m)
B Bottom	MC	Male connector with 0.98ft (30cm) cable		
S Side	FC	Female connector with 0.98ft (30cm) cable		
C Closed	NA	Only for Closed Feed Entry		

\*We will manufacture to the requested length considering the increment length.

### Mounting Order Code

Product Code
Please select on the Mounting Options page.

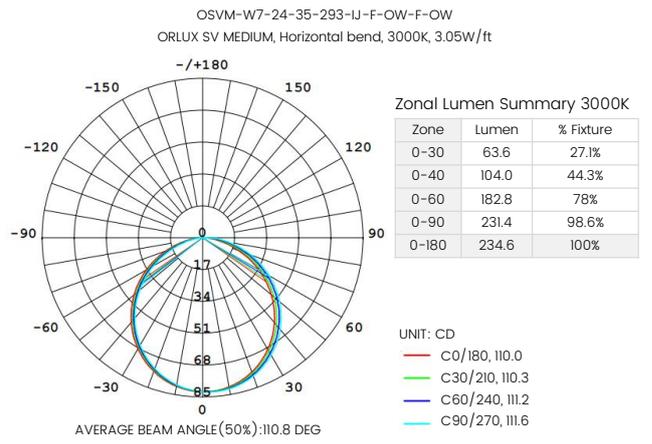
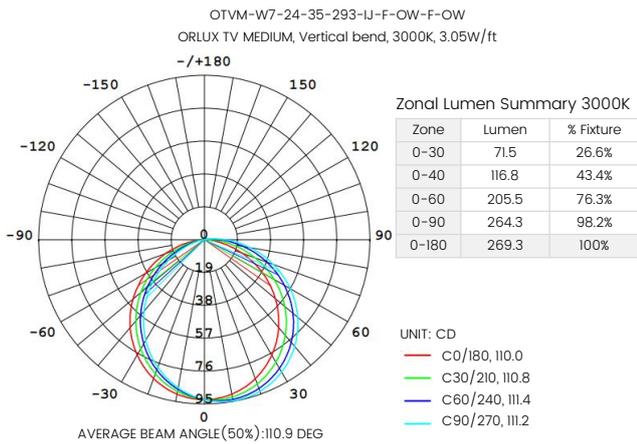
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Lumen Output (lm/ft)		
Temp./Color	Vertical Bending	Horizontal Bending
	3.05W/ft	3.05W/ft
2200K	223	195
2700K	241	207
3000K	253	223
3500K	268	235
4000K	268	235
5300K	268	235
Max. Run for Class 2*	16.4ft(5m)	16.4ft(5m)

Technical Details		
	Vertical Bending	Horizontal Bending
Efficacy	87.8lm/W @4000K	77lm/W @4000K
CRI	Ra≥90	Ra≥90
Beam Angle	110°	110°
LED MacAdam	3 steps	3 steps
Average Life (L70)	> 47,000 hours	> 47,000 hours
Storage Temperature	-40-140°F (-40°C- 60°C)	
Operating Temperature	-40-113°F (-40°C- 45°C)	

Photometry

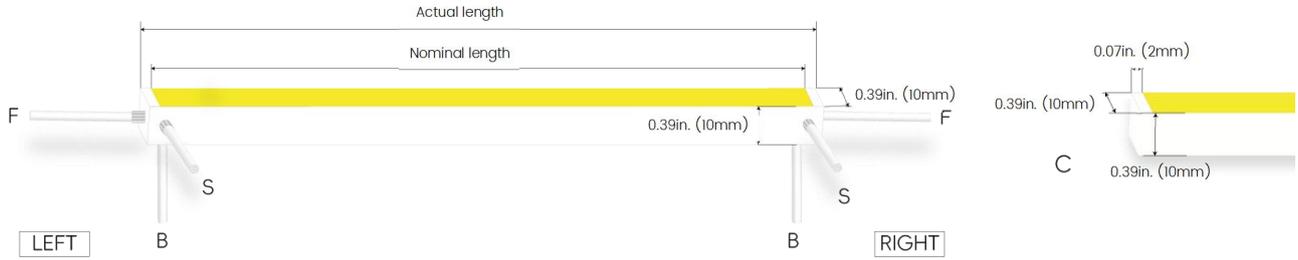


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**Feed Entry / End Cap Options**

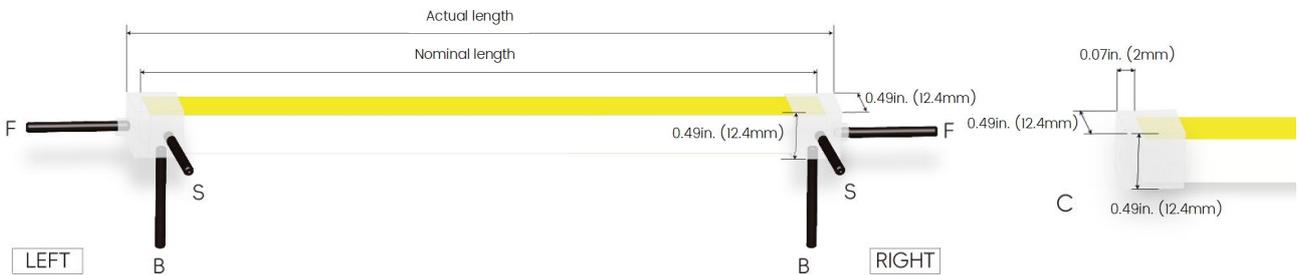
**IJ:** Injected end cap – IP67, factory-made only



**IJC:** Clear injected end cap – IP67, factory-made only



**SEC:** Silicone end cap – IP67



**Connector Wire Options**



**OW:** Open wire, **Dry only**  
Standard 3.28ft (1m), 20 AWG (wire length customizable)



**MC:** Male connector, **Wet**  
Standard 0.98ft (30cm), 20 AWG

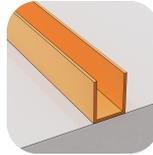
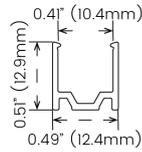


**FC:** Female connector, **Wet**  
Standard 0.98ft (30cm), 20 AWG

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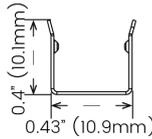
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Mounting Options



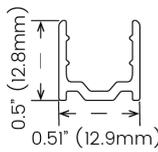
**ORLUX-M-SC**

Name	Straight surface channel
Material	Aluminum
Standard Length	3.28ft (1M)



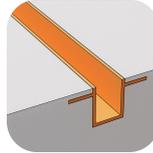
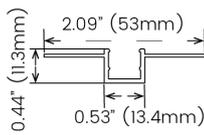
**ORLUX-M-BC**

Name	Bendable surface channel
Material	Stainless Steel
Standard Length	3.28ft (1M)



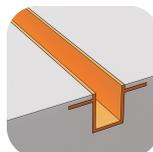
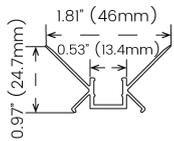
**ORLUX-M-PC**

Name	PC channel
Material	PC
Standard Length	3.28ft (1M)



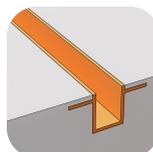
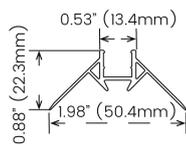
**ORLUX-M-MC**

Name	Mud-in channel
Material	Aluminum
Standard Length	3.28ft (1M)



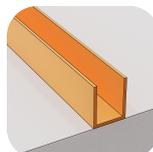
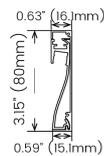
**ORLUX-M-IC**

Name	Inside corner channel
Material	Aluminum
Standard Length	3.28ft (1M)



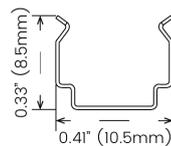
**ORLUX-M-OC**

Name	Outside corner channel
Material	Aluminum
Standard Length	3.28ft (1M)



**ORLUX-M-SBC**

Name	Skirting board channel
Material	Aluminum
Standard Length	3.28ft (1M)



**ORLUX-M-CL**

Name	Mounting clip
Material	Aluminum
Standard Length	0.28in. (7mm)

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End Caps (Optional, purchase for extra)



**ORLUX-M-SEC-C**  
Silicone closed end cap

**ORLUX-M-SEC-F-2P**  
Silicone end cap front entry with 0.98ft (30cm) cable, 2 pin

**ORLUX-M-SEC-S-2P**  
Silicone end cap side entry with 0.98ft (30cm) cable, 2 pin

**ORLUX-M-SEC-B-2P**  
Silicone end cap bottom entry with 0.98ft (30cm) cable, 2 pin

Additional Accessories (Optional, purchase for extra)



**MCW-2P-67**  
Male connector with 0.98ft (30cm) white cable, 2 pin, IP67, Wet, 20 AWG

**FCW-2P-67**  
Female connector with 0.98ft (30cm) white cable, 2 pin, IP67, Wet, 20 AWG

**MCB-2P-67**  
Male connector with 0.98ft (30cm) black cable, 2 pin, IP67, Wet, 20 AWG

**FCB-2P-67**  
Female connector with 0.98ft (30cm) black cable, 2 pin, IP67, Wet, 20 AWG

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Drivers

**Non-dimmable**

Code	Max Load	Input	Output	Class 2	With Junction Box	Environment	Size (L x W x H)
KV-24030-ASW	30W	100-277VAC	24V	Yes	No	Dry/Damp	6.1 x 2.1 x 0.8in. (15.5 x 5.4 x 2cm)
KV-24060-ASW	60W						7 x 2.4 x 0.9in. (17.8 x 6.1 x 2.4cm)
KV-24096-ASW	96W					Dry/Damp/Wet	9.1 x 2.8 x 1.7in. (23 x 7 x 4.3cm)

**Phase cut/Triac-dimmable**

Code	Max Load	Input	Output	Class 2	With Junction Box	Environment	Size (L x W x H)	
KVF-24030-TDW	30W	100-277VAC	24V	Yes	No	Dry/Damp	6.1 x 2.1 x 0.8in. (15.5 x 5.4 x 2cm)	
KVF-24060-TDW	60W						7 x 2.4 x 0.9in. (17.8 x 6.1 x 2.4cm)	
KVF-24096-TDW	96W					Dry/Damp/Wet	9.1 x 2.8 x 1.7in. (23 x 7 x 4.3cm)	
KVF-24030-TDWJ	30W				Yes	Dry/Damp	Yes	6.5 x 3.6 x 1in. (16.5 x 9.2 x 2.6cm)
KVF-24060-TDWJ	60W							7.4 x 3.6 x 1in. (18.8 x 9.2 x 2.6cm)
KVF-24096-TDWJ	96W							8.7 x 3.7 x 1.6in. (22 x 9.3 x 4.1cm)
KVF-24192-TDWJ	192W (96Wx2)							10.9 x 4.3 x 1.8in. (27.8 x 11 x 4.5cm)
KVF-24288-TDWJ	288W (96Wx3)							11.9 x 4.3 x 1.8in. (30.1 x 11 x 4.5cm)
KVF-24384-TDWJ	384W (96Wx4)							12.7 x 5.5 x 1.9in. (32.3 x 14 x 4.8cm)

**4 in 1-dimmable (0-10V/1-10V/Potentiometer/10V PWM)**

Code	Max Load	Input	Output	Class 2	With Junction Box	Environment	Size (L x W x H)	
KVD-24030-DIM	30W	100-277VAC	24V	Yes	No	Dry/Damp	6.1 x 2.1 x 0.8in. (15.5 x 5.4 x 2cm)	
KVD-24060-DIM	60W						7 x 2.4 x 0.9in. (17.8 x 6.1 x 2.4cm)	
KVD-24096-DIM	96W					Dry/Damp/Wet	9.1 x 2.8 x 1.7in. (23 x 7 x 4.3cm)	
KVD-24030-DIMJ	30W				Yes	Dry/Damp	Yes	6.5 x 3.6 x 1in. (16.5 x 9.2 x 2.6cm)
KVD-24060-DIMJ	60W							7.4 x 3.6 x 1in. (18.8 x 9.2 x 2.6cm)
KVD-24096-DIMJ	96W							8.7 x 3.7 x 1.6in. (22 x 9.3 x 4.1cm)
KVD-24192-DIMJ	192W (96Wx2)							10.9 x 4.3 x 1.8in. (27.8 x 11 x 4.5cm)
KVD-24288-DIMJ	288W (96Wx3)							11.9 x 4.3 x 1.8in. (30.1 x 11 x 4.5cm)
KVD-24384-DIMJ	384W (96Wx4)							12.7 x 5.5 x 1.9in. (32.3 x 14 x 4.8cm)

**5 in 1-dimmable (Triac/0-10V/1-10V/Potentiometer/10V PWM)**

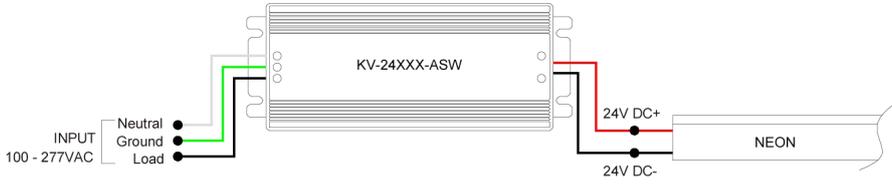
Code	Max Load	Input	Output	Class 2	With Junction Box	Environment	Size (L x W x H)	
KVG-24030-DW	30W	100-277VAC	24V	Yes	No	Dry/Damp	6.1 x 2.1 x 0.8in. (15.5 x 5.4 x 2cm)	
KVG-24060-DW	60W						7 x 2.4 x 0.9in. (17.8 x 6.1 x 2.4cm)	
KVG-24096-DW	96W					Dry/Damp/Wet	9.1 x 2.8 x 1.7in. (23 x 7 x 4.3cm)	
KVG-24030-DWJ	30W				Yes	Dry/Damp	Yes	6.5 x 3.7 x 1.6in. (16.5 x 9.5 x 4cm)
KVG-24060-DWJ	60W							7.4 x 3.7 x 1.6in. (18.8 x 9.5 x 4cm)
KVG-24096-DWJ	96W							8.7 x 3.7 x 1.6in. (22 x 9.5 x 4cm)
KVG-C24192-DWJ	192W (96Wx2)							10.9 x 4.3 x 1.8in. (27.8 x 11 x 4.5cm)
KVG-C24288-DWJ	288W (96Wx3)							11.9 x 4.3 x 1.8in. (30.1 x 11 x 4.5cm)
KVG-C24384-DWJ	384W (96Wx4)							12.8 x 5.5 x 1.9in. (32.5 x 14 x 4.8cm)

**ORLUX MEDIUM**

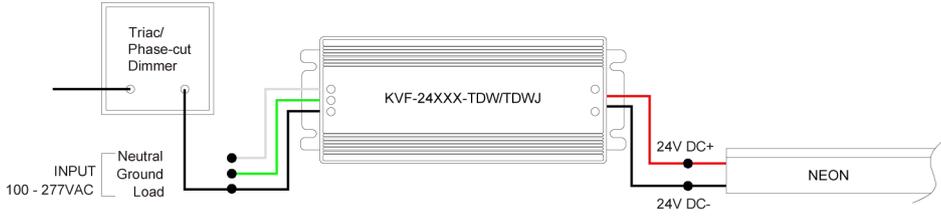
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Wiring Diagram

**Non-dimmable**



**Phase cut/Triac-dimmable**



**4 in 1-dimmable (0-10V/1-10V/Potentiometer/10V PWM)**



**5 in 1-dimmable (Triac/0-10V/1-10V/Potentiometer/10V PWM)**



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**24V Voltage Drop & Maximum Wire Length Chart**

Based on 24V voltage with a 3% voltage drop allowance. Indicates the maximum wire length from the power supply to the start of the run.

Total load	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG
<b>5W / 0.2A</b>	1730 ft (527.3 m)	784 ft (238.9 m)	397 ft (121.0 m)	263 ft (80.2 m)	175 ft (53.3 m)	131 ft (39.9 m)	107 ft (32.6 m)
<b>10W / 0.4A</b>	865 ft (263.6 m)	392 ft (119.4 m)	199 ft (60.7 m)	132 ft (40.2 m)	88 ft (26.8 m)	66 ft (20.1 m)	54 ft (16.5 m)
<b>15W / 0.6A</b>	577 ft (175.9 m)	261 ft (79.6 m)	132 ft (40.2 m)	88 ft (26.8 m)	58 ft (17.7 m)	44 ft (13.4 m)	36 ft (11.0 m)
<b>20W / 0.8A</b>	433 ft (132.0 m)	196 ft (59.7 m)	99 ft (30.2 m)	66 ft (20.1 m)	44 ft (13.4 m)	33 ft (10.1 m)	27 ft (8.2 m)
<b>25W / 1.0A</b>	346 ft (105.5 m)	157 ft (47.9 m)	79 ft (24.1 m)	53 ft (16.2 m)	35 ft (10.7 m)	26 ft (7.9 m)	22 ft (6.7 m)
<b>30W / 1.3A</b>	289 ft (88.1 m)	131 ft (39.9 m)	66 ft (20.1 m)	44 ft (13.4 m)	29 ft (8.8 m)	22 ft (6.7 m)	18 ft (5.5 m)
<b>35W / 1.5A</b>	248 ft (75.6 m)	112 ft (34.1 m)	57 ft (17.4 m)	38 ft (11.6 m)	25 ft (7.6 m)	19 ft (5.8 m)	15 ft (4.6 m)
<b>40W / 1.7A</b>	217 ft (66.1 m)	98 ft (29.9 m)	50 ft (15.2 m)	33 ft (10.1 m)	22 ft (6.7 m)	16 ft (4.9 m)	13 ft (4.0 m)
<b>45W / 1.9A</b>	192 ft (58.5 m)	87 ft (26.5 m)	44 ft (13.4 m)	29 ft (8.8 m)	19 ft (5.8 m)	14 ft (4.3 m)	12 ft (3.7 m)
<b>50W / 2.1A</b>	173 ft (52.7 m)	78 ft (23.8 m)	40 ft (12.2 m)	26 ft (7.9 m)	18 ft (5.5 m)	13 ft (4.0 m)	11 ft (3.4 m)
<b>55W / 2.3A</b>	157 ft (47.9 m)	71 ft (21.6 m)	36 ft (11.0 m)	24 ft (7.3 m)	16 ft (4.9 m)	12 ft (3.7 m)	10 ft (3.0 m)
<b>60W / 2.5A</b>	144 ft (43.9 m)	65 ft (19.8 m)	33 ft (10.1 m)	22 ft (6.7 m)	15 ft (4.6 m)	11 ft (3.4 m)	9 ft (2.7 m)
<b>65W / 2.7A</b>	133 ft (40.5 m)	60 ft (18.3 m)	30 ft (9.1 m)	20 ft (6.1 m)	14 ft (4.3 m)	10 ft (3.0 m)	8 ft (2.4 m)
<b>70W / 2.9A</b>	124 ft (37.8 m)	56 ft (17.1 m)	28 ft (8.5 m)	19 ft (5.8 m)	13 ft (4.0 m)	10 ft (3.0 m)	8 ft (2.4 m)
<b>75W / 3.1A</b>	116 ft (35.4 m)	52 ft (15.9 m)	26 ft (7.9 m)	17 ft (5.2 m)	12 ft (3.7 m)	9 ft (2.7 m)	7 ft (2.1 m)
<b>80W / 3.3A</b>	109 ft (33.2 m)	49 ft (14.9 m)	25 ft (7.6 m)	16 ft (4.9 m)	11 ft (3.4 m)	8 ft (2.4 m)	7 ft (2.1 m)
<b>85W / 3.5A</b>	103 ft (31.4 m)	46 ft (14.0 m)	23 ft (7.0 m)	15 ft (4.6 m)	10 ft (3.0 m)	8 ft (2.4 m)	6 ft (1.8 m)
<b>90W / 3.8A</b>	97 ft (29.6 m)	44 ft (13.4 m)	22 ft (6.7 m)	15 ft (4.6 m)	10 ft (3.0 m)	7 ft (2.1 m)	6 ft (1.8 m)
<b>96W / 4.0A</b>	91 ft (27.7 m)	41 ft (12.5 m)	21 ft (6.4 m)	14 ft (4.3 m)	9 ft (2.7 m)	7 ft (2.1 m)	6 ft (1.8 m)