

ARCUS CORE 3D LARGE - COMBO SYSTEM

(Standard Cut + Free Cut Finishing Piece)

3D Bending · Static White

Features

The Arcus Combo System combines standard cut and free cut capabilities to provide precise, made-to-order lengths, utilizing Standard Cuts for the majority of the runs, with Free Cuts reserved only for the finishing segments. This combo usage achieves cost savings of 20 - 40% versus using Free Cuts for the entire length. Both Arcus Standard Cut and Free Cut maintain consistent binning and brightness.

The system is suitable for indoor and outdoor applications, and delivers exceptional performance with a CRI over 90, brightness of up to 1020 lm/m, ensuring robustness and design flexibility.

Applications

Living rooms, TV walls, feature walls, under-cabinet areas, staircases, ceiling coves, hallways, etc.



Date

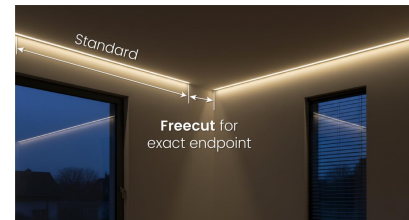
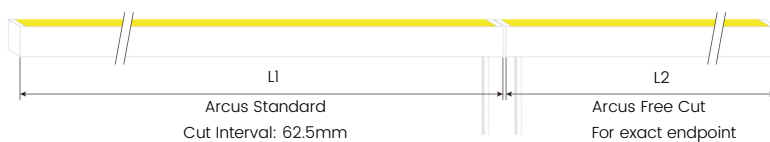
Fixture type

Project name

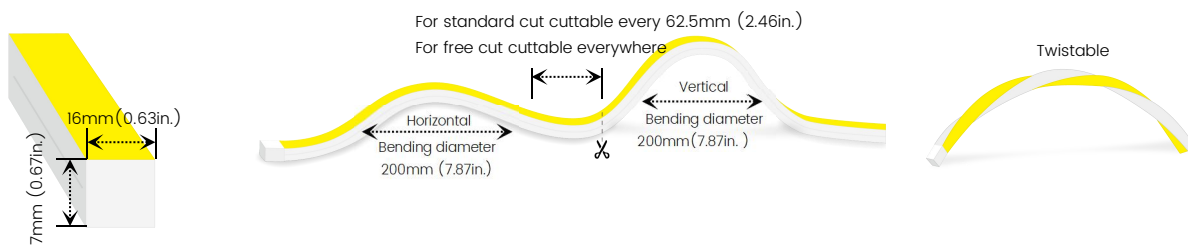
Project phase



Combo System



Dimensions



Order Code

Model	Environment	Voltage	CCT	Power	End Cap	Left Feed Entry
AC3DL	D4-Dry (IP54) W7-Wet (IP67)	24-DC24V	22-2200K 27-2700K 30-3000K 35-3500K 40-4000K	100-10W/M	IJ Injected (IP54/IP67) IJC Clear injected (IP54/IP67) SEC Silicone (IP54/IP67)	F Front OW Open wire 30cm B Bottom MC Male connector with 30cm cable S Side FC Female connector with 30cm cable C Closed NA Only for Closed Feed Entry

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

Assembly Builder

Assembly Builder

Right Feed Entry	Length
F Front OW Open wire 30cm	Max nominal 5m
B Bottom MC Male connector with 30cm cable	Increment 62.5mm
S Side FC Female connector with 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)

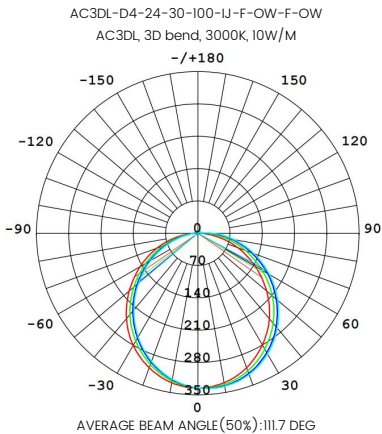
Temp./Color	10W/M
2200K	790
2700K	900
3000K	960
3500K	1020
4000K	1020
Max. Run for Class 2*	5m ¹ 4m ²
Storage Temperature	-40°C~ 60°C
Operating Temperature	-40°C~ 45°C

1. Max run for standard cut.
2. Max run for Free cut.

Technical Details

Efficacy	102lm/W @4000K 10W
CRI	Ra≥90
Beam Angle	120°
LED MacAdam	3 steps
Average Life(L70)	> 44,000 hours
Max. Length Per Reel	10M
Finish	Matte

Photometry



Zonal Lumen Summary 3000K

Zone	Lumen	% Fixture
0~30	258.7	25.7%
0~40	422.6	42%
0~60	746.2	74.2%
0~90	976.3	97.1%
0~180	1005	100%

UNIT: CD
C0/180, 110.9
C30/210, 111.6
C60/240, 112.1
C90/270, 112.1

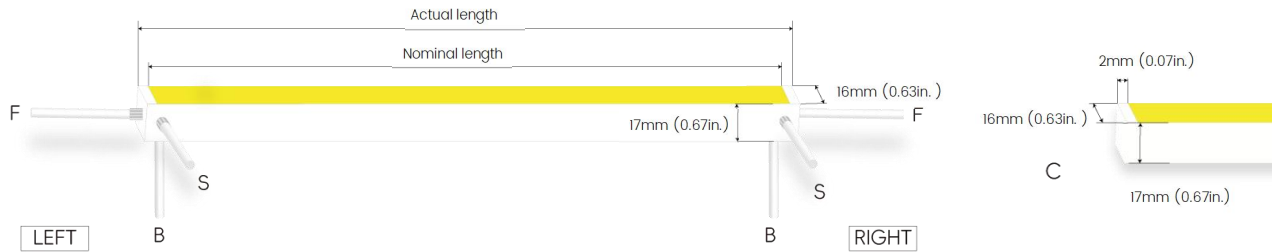
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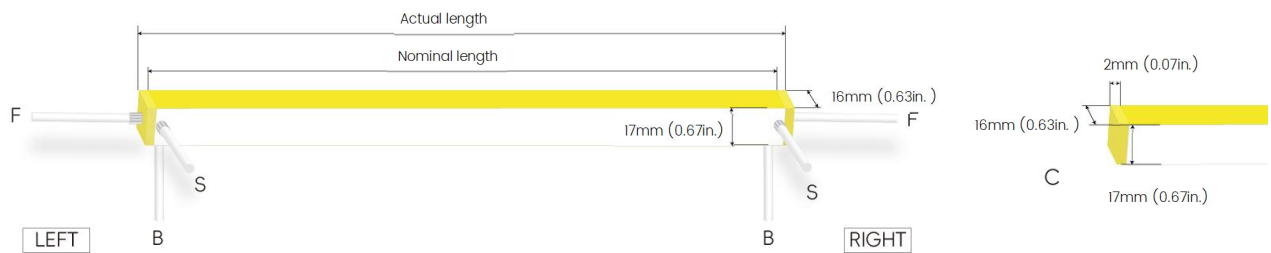
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Feed Entry / End Cap Options

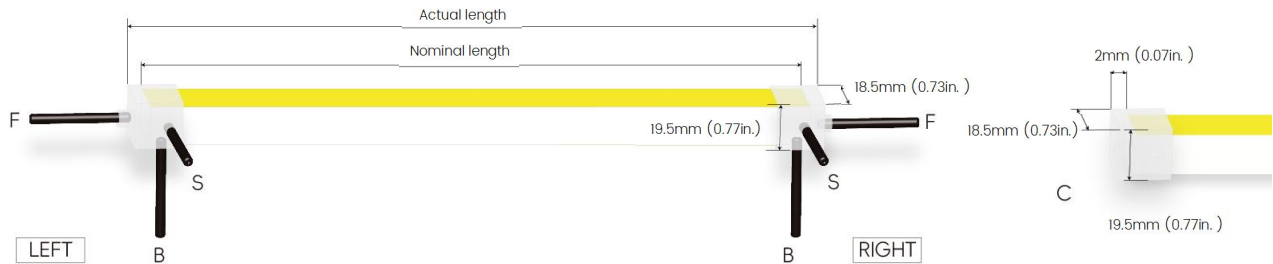
IJ: Injected end cap – IP54/IP67, factory-made only



IJC: Clear injected end cap – IP54/IP67, factory-made only



SEC: Silicone end cap – IP54/IP67



Connector Wire Options



OW: Open wire, **Dry only**
Standard 1m (3.28ft), 18 AWG (wire length customizable)



MC: Male connector, **Wet**
Standard 30cm (0.98ft), 18 AWG



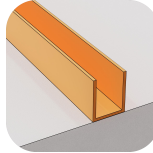
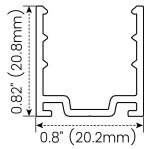
FC: Female connector, **Wet**
Standard 30cm (0.98ft), 18 AWG

ARCUS CORE 3D LARGE - COMBO SYSTEM

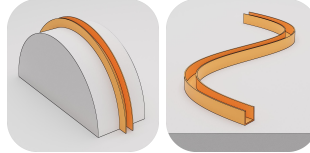
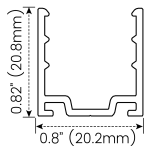
(Standard Cut + Free Cut Finishing Piece)

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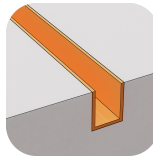
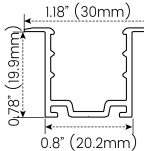
Mounting Options

**ARCUS-L-SC**

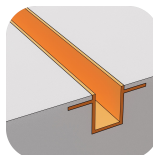
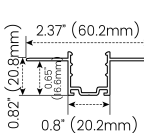
Name	Straight surface channel
Material	Aluminum
Standard Length	1M (3.28ft)

**ARCUS-L-BC**

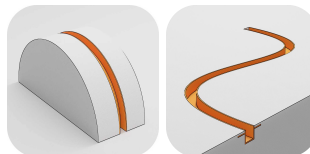
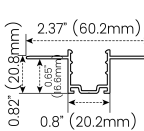
Name	Bendable surface channel
Material	Aluminum
Standard Length	1M (3.28ft)
Min. bending radius	600mm

**ARCUS-L-RC**

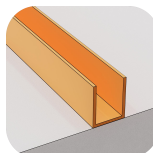
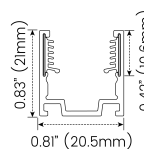
Name	Straight recessed channel
Material	Aluminum
Standard Length	1M (3.28ft)

**ARCUS-L-MC**

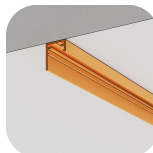
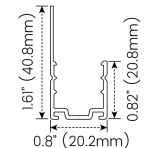
Name	Mud-in channel
Material	Aluminum
Standard Length	1M (3.28ft)

**ARCUS-L-BMC**

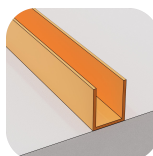
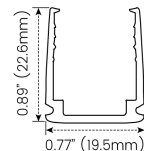
Name	Bendable mud-in channel
Material	Aluminum
Standard Length	1M (3.28ft)
Min. bending radius	600mm

**ARCUS-L-SCS**

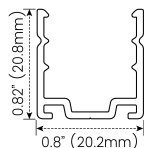
Name	Straight surface channel with silicone groove
Material	Aluminum
Standard Length	1M (3.28ft)

**ARCUS-L-LBC**

Name	Light-block channel
Material	Aluminum
Standard Length	1M (3.28ft)

**ARCUS-L-PC**

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

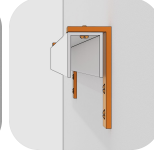
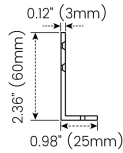
**ARCUS-L-CL**

Name	Mounting clip
Material	Aluminum
Standard Length	25mm (0.98in.)

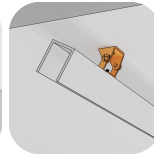
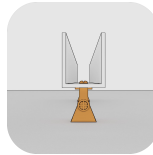
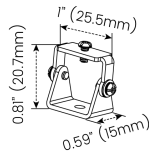
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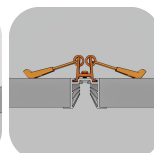
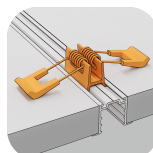
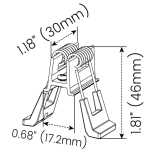
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**ARCUS-L-LS**

Name	L-shaped mounting bracket
Material	Aluminum
Standard Length	20mm (0.79in.)
* ARCUS-L-LS can be installed with aluminum channel ARCUS-L-SC.	

**ARCUS-L-AC**

Name	Adjustable mounting clip
Material	Stainless steel
Standard Length	25.5mm (1 in.)
* ARCUS-L-LS can be installed with aluminum channel ARCUS-L-SC.	

**ARCUS-L-RC-SPC**

Name	Spring clip
Standard Pkg	1pcs
* ARCUS-L-RC-SPC must be installed with aluminum channel ARCUS-L-RC.	

End Caps (Optional, purchase for extra)



ARCUS-L-SEC-C
Silicone closed end cap



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



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



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

Additional Accessories (Optional, purchase for extra)



MCW-2P-67
Male connector with 30cm (0.98ft) white cable, 2 pin, IP67, Wet, 18 AWG



FCW-2P-67
Female connector with 30cm (0.98ft) white cable, 2 pin, IP67, Wet, 18 AWG



MCB-2P-67
Male connector with 30cm (0.98ft) black cable, 2 pin, IP67, Wet, 18 AWG



FCB-2P-67
Female connector with 30cm (0.98ft) black cable, 2 pin, IP67, Wet, 18 AWG

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Drivers

Non-dimmable

Code	Max Load	Input	Output	Environment	Size (L x W x H)
XLG-150-24-A	150W	100-305VAC	24V	Dry/Damp/IP67	180 * 63 * 35.5 mm
LPV-150-24	150W	100-277VAC		Dry/Damp/IP67	148 * 40 * 30 mm
LRS-150-24	150W	85-132VAC / 170-264VAC		Dry	99 * 97 * 30 mm

3 in 1-dimmable

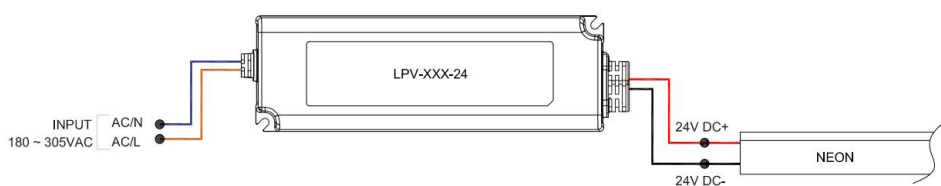
Code	Max Load	Input	Output	Environment	Size (L x W x H)
ELG-150-24B-3Y	150W	100-305VAC	24V	Dry/Damp/IP67	219 * 63 * 35.5 mm
PWM-120-24	120W	90-305VAC / 127-431VAC		Dry/Damp/IP67	191 * 63 * 37.5 mm

DALI control technology

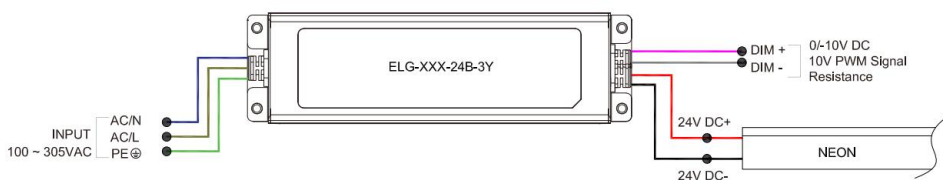
Code	Max Load	Input	Output	Environment	Size (L x W x H)
ELG-150-24DA-3Y	150W	100-305VAC	24V	Dry/Damp/IP67	219 * 63 * 35.5 mm

Wiring Diagram

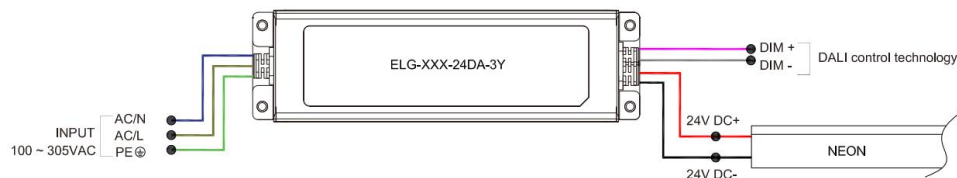
Non-dimmable



3 in 1-dimmable



DALI Control Technology



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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
5W / 0.2A	527.3 m	238.9 m	121.0 m	80.2 m	53.3 m	39.9 m	32.6 m
10W / 0.4A	263.6 m	119.4 m	60.7 m	40.2 m	26.8 m	20.1 m	16.5 m
15W / 0.6A	175.9 m	79.6 m	40.2 m	26.8 m	17.7 m	13.4 m	11.0 m
20W / 0.8A	132.0 m	59.7 m	30.2 m	20.1 m	13.4 m	10.1 m	8.2 m
25W / 1.0A	105.5 m	47.9 m	24.1 m	16.2 m	10.7 m	7.9 m	6.7 m
30W / 1.3A	88.1 m	39.9 m	20.1 m	13.4 m	8.8 m	6.7 m	5.5 m
35W / 1.5A	75.6 m	34.1 m	17.4 m	11.6 m	7.6 m	5.8 m	4.6 m
40W / 1.7A	66.1 m	29.9 m	15.2 m	10.1 m	6.7 m	4.9 m	4.0 m
45W / 1.9A	58.5 m	26.5 m	13.4 m	8.8 m	5.8 m	4.3 m	3.7 m
50W / 2.1A	52.7 m	23.8 m	12.2 m	7.9 m	5.5 m	4.0 m	3.4 m
55W / 2.3A	47.9 m	21.6 m	11.0 m	7.3 m	4.9 m	3.7 m	3.0 m
60W / 2.5A	43.9 m	19.8 m	10.1 m	6.7 m	4.6 m	3.4 m	2.7 m
65W / 2.7A	40.5 m	18.3 m	9.1 m	6.1 m	4.3 m	3.0 m	2.4 m
70W / 2.9A	37.8 m	17.1 m	8.5 m	5.8 m	4.0 m	3.0 m	2.4 m
75W / 3.1A	35.4 m	15.9 m	7.9 m	5.2 m	3.7 m	2.7 m	2.1 m
80W / 3.3A	33.2 m	14.9 m	7.6 m	4.9 m	3.4 m	2.4 m	2.1 m
85W / 3.5A	31.4 m	14.0 m	7.0 m	4.6 m	3.0 m	2.4 m	1.8 m
90W / 3.8A	29.6 m	13.4 m	6.7 m	4.6 m	3.0 m	2.1 m	1.8 m
96W / 4.0A	27.7 m	12.5 m	6.4 m	4.3 m	2.7 m	2.1 m	1.8 m