ARCUS CORE 3D MEDIUM - COMBO SYSTEM

3D Bending · Static White

(Standard Cut + Free Cut Finishing Piece)

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 95, brightness of up to 950 lm/m, and 1-step binning, ensuring robustness and design flexibility.

Applications

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

Date

Fixture type

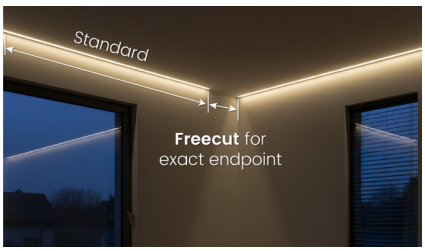
Project name

Project phase

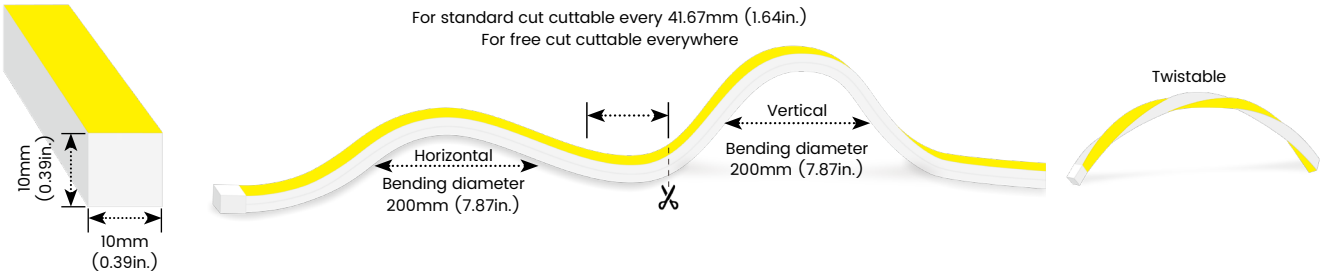


Combo System





Bending Directions & Diameters



Order Code

Model	Environment	Voltage	CCT	Power	End Cap	Left Feed Entry
AC3DM **AC3DMFC**	**D5-Dry (IP54)** **W7-Wet(IP67)**	**24V**-DC24V	**22K**-2200K **27K**-2700K **30K**-3000K **35K**-3500K **40K**-4000K	**100**-10W/M	**FT** Flush Translucent **FO** Flush Opaque	**F** Front **OW** Open wire 300mm (11.81in.) **B** Bottom **MC** Male connector with 300mm (11.81in.) cable **S** Side **FC** Female connector with 300mm (11.81in.)cable **C** Closed **NA** Only for Closed Feed Entry

Assembly Builder

***AC3DMFC:** Free Cut delivers precise field-cut lengths for the last segment, while keeping in line with standard cut in dimensions, binning, output, and mounting for a uniform appearance.

Assembly Builder

Right Feed Entry				Length	
F	Front	**OW**	Open wire 300mm (11.81in.)	**Max. nominal**	5m(16.4ft)
B	Bottom	**MC**	Male connector with 300mm (11.81in.) cable	**Increment**	41.67mm (1.64in.)
S	Side	**FC**	Female connector with 300mm (11.81in.)cable		
C	Closed	**NA**	Only for Closed Feed Entry		

*We will list the nearest actual manufacturing length on the quotation, based on your requested length.

Mounting Order Code

Product Code
Please select on the Mounting Options page

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Lumen Output (lm/m)

CCT	10W/M
2200K	790
2700K	890
3000K	930
3500K	950
4000K	950
Max. Run for standard cut	5m
Max. run for Free cut	4m

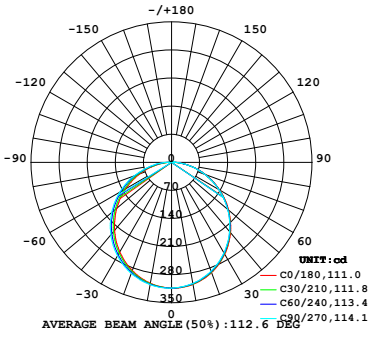
Techinical Details

Efficacy	93lm/W @3000K 10W
CRI	Ra≥90
Beam Angle	120°
LED MacAdam	3 step
IK Rating	IK08 (with aluminium profile)
Average Life (L70B10)	>44,000 hours
Storage Temperature	-40°C~ 65°C
Operating Temperature	-40°C~ 65°C

Photometry

AC3DM-D5-24V-30K-100-FT-F-OW-F-OW

ARCUS CORE 3D MEDIUM, 3D bending, 3000K, 10W/M



Zonal Lumen Summary

Zone	Lumen	% Fixture
0-30	242.5	26.1%
0-40	396.6	42.7%
0-60	701.8	75.5%
0-90	912.9	98.2%
0-180	929.2	100.0%

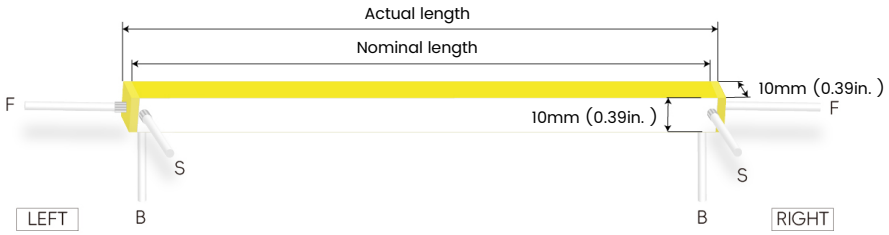
ARCUS CORE 3D MEDIUM - COMBO SYSTEM

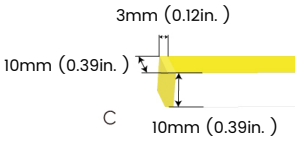
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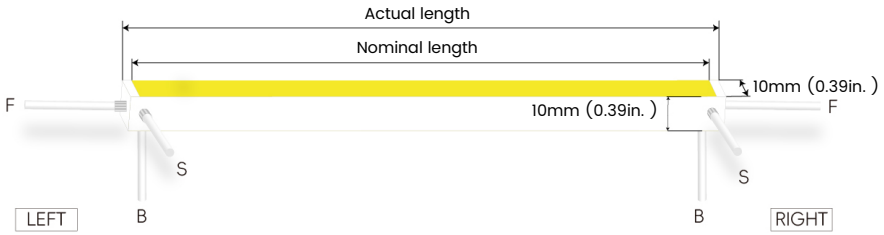
Feed Entry / End Cap Options

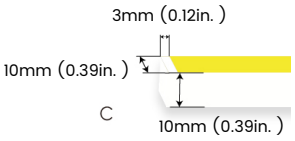
FT: Flush Translucent – IP67, factory-made only



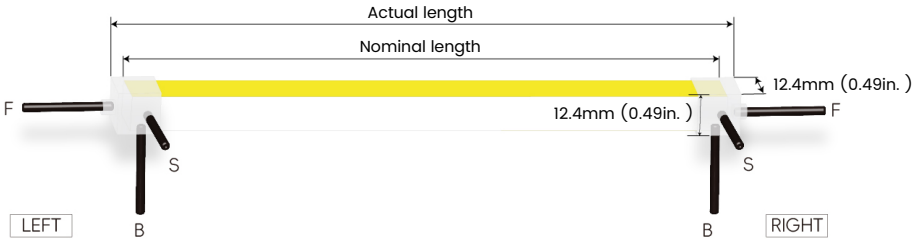


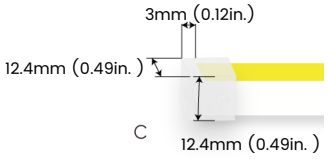
FO: Flush Opaque – IP67, factory-made only



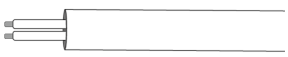


Silicone end cap – IP67, for field cuttable only

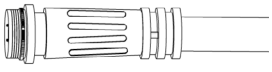




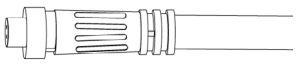
Connector Wire Options



OW: Open wire, **Dry only**
Standard 300mm (11.81in.),20 AWG,
wire length customizable



MC: Male connector, **Wet**
Standard 300mm (11.81in.), 20 AWG



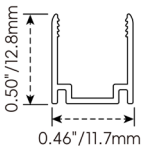
FC: Female connector, **Wet**
Standard 300mm (11.81in.), 20 AWG

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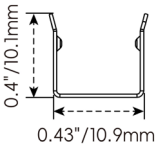
Mounting Options



NF1010-SC

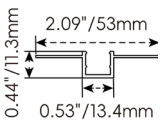
Name	Straight surface channel
Material	Aluminum
Standard Length	1m (3.28ft)




NF1010-BC

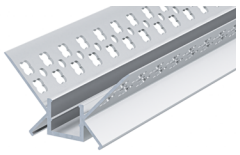
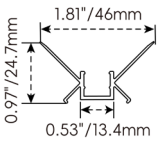
Name	Bendable surface channel
Material	Stainless Steel
Standard Length	1m (3.28ft)
Min. Bending Diameter	100mm(3.94in.)
*Not suitable for upside-down installation	



NF1010-MC

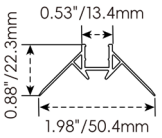
Name	Mud-in channel
Material	Aluminum
Standard Length	1m (3.28ft)



NF1010-IC

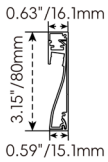
Name	Inside corner channel
Material	Aluminum
Standard Length	1m (3.28ft)



NF1010-OC

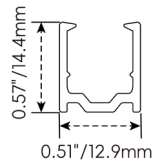
Name	Outside corner channel
Material	Aluminum
Standard Length	1m (3.28ft)



NF1010-SBC

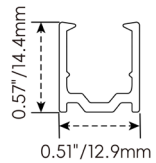
Name	Skirting board channel
Material	Aluminum
Standard Length	1m (3.28ft)





NF1010-PC

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






NF1010-BPC

Name	Bendable PC channel
Material	PC
Standard Length	1m (3.28ft)

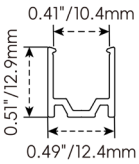
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Mounting Options



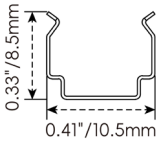




NF1010-CL

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







NF1010-CLS

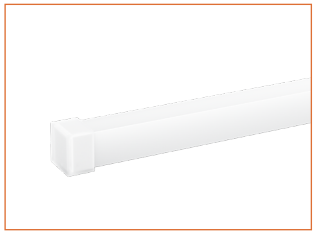
Name	Mounting clip
Material	Stainless Steel
Standard Length	7mm(0.28in.)
*Not suitable for upside-down installation	

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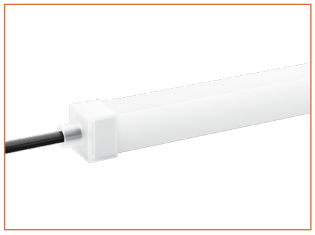
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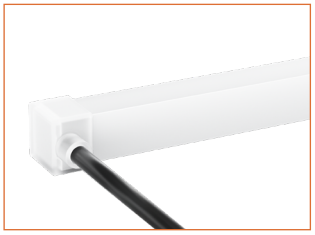
Silicone End Caps (Optional, purchase for extra)



NF1010-SEC-C
Silicone closed end cap



NF1010-SEC-F-2P
Silicone end cap front entry with 300mm (11.81in.) cable, 2 pin



NF1010-SEC-S-2P
Silicone end cap side entry with 300mm (11.81in.) cable, 2 pin



NF1010-SEC-B-2P
Silicone end cap bottom entry with 300mm (11.81in.) cable, 2 pin

Additional Accessories (Optional, purchase for extra)



MCW-2P-67
Male connector,
300mm (11.81in.)white cable,
2 pin, IP67, Wet, 20 AWG



FCW-2P-67
Female connector,
300mm (11.81in.) white cable,
2 pin, IP67, Wet, 20 AWG



MCB-2P-67
Male connector,
300mm (11.81in.) black cable,
2 pin, IP67, Wet, 20 AWG



FCB-2P-67
Female connector,
300mm (11.81in.) black cable,
2 pin, IP67, Wet, 20 AWG



ADJS
1 Adjustable Angle Scissors Set,
with 4 Spare Blades

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Drivers

Non-dimmable

Code	Max Load	Input	Output	Environment	Size (L x W x H)
ELG-150-24A-3Y	150W	100-305VAC	24V	Dry/Damp/IP67	219 * 63 * 35.5 mm
LRS-150-24	150W	85-132VAC / 170-264VAC	24V	Dry	159 * 97 * 30 mm

3 in 1-dimmable

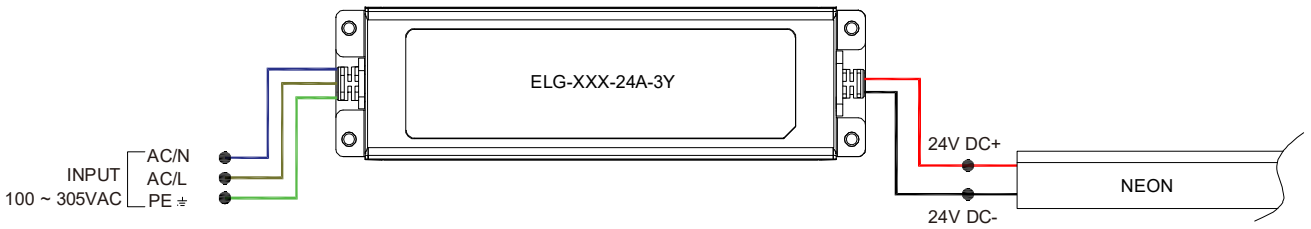
Code	Max Load	Input	Output	Environment	Size (L x W x H)
ELG-150-24B-3Y	150W	100-305VAC	24V	Dry/Damp/IP67	219 * 63 * 35.5 mm

DALI-dimmable

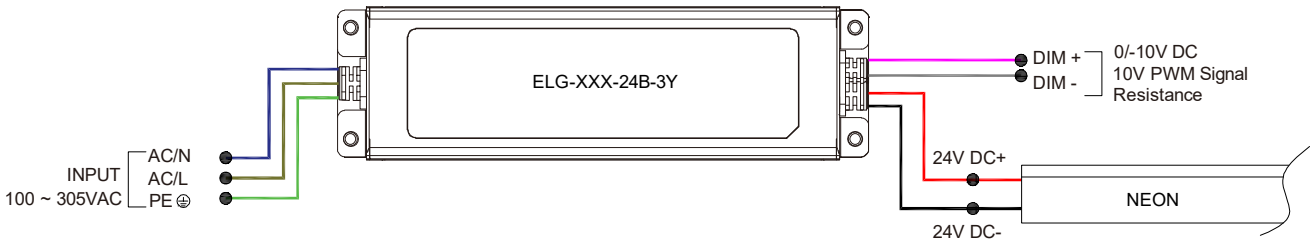
Code	Max Load	Input	Output	Environment	Size (L x W x H)
ELG-150-24DA-3Y	150W	100-305VAC	24V	Dry/Damp/IP67	219 * 63 * 35.5 mm

Wiring Diagram

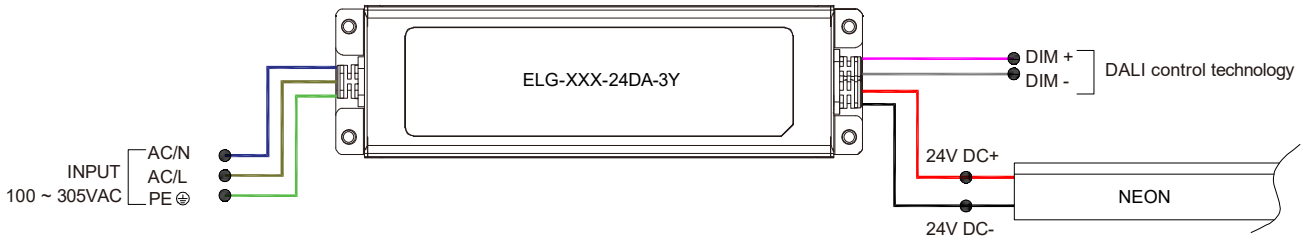
Non-dimmable



3 in 1-dimmable



DALI-dimmable



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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	8AWG	10AWG	12AWG	14AWG	16AWG	18AWG	20AWG	22AWG
10W / 0.4A	484.0m	304.5m	191.4m	120.4m	75.5m	47.5m	29.8m	18.5m
20W / 0.8A	242.0m	152.1m	95.7m	60.0m	37.8m	23.7m	14.9m	9.1m
30W / 1.3A	161.2m	101.5m	63.7m	39.9m	24.9m	15.8m	9.7m	6.1m
40W / 1.7A	121.0m	75.9m	47.8m	29.8m	18.9m	11.8m	7.3m	4.5m
50W / 2.1A	96.6m	60.6m	38.1m	24.0m	14.9m	9.4m	5.7m	3.6m
60W / 2.5A	80.4m	50.6m	31.7m	19.8m	12.5m	7.9m	4.8m	3.0m
70W / 2.9A	68.8m	43.2m	27.1m	17.0m	10.6m	6.7m	4.2m	2.4m
80W / 3.3A	60.3m	37.8m	23.7m	14.9m	9.4m	5.7m	3.6m	2.1m
90W / 3.8A	53.6m	33.8m	21.0m	13.1m	8.2m	5.1m	3.0m	1.8m
100W / 4.2A	48.1m	30.1m	18.9m	11.8m	7.3m	4.5m	2.7m	1.8m
110W / 4.6A	43.8m	27.4m	17.3m	10.6m	6.7m	4.2m	2.7m	1.5m
120W / 5.0A	40.2m	25.3m	15.8m	9.7m	6.1m	3.9m	2.4m	1.5m
130W / 5.4A	37.1m	23.1m	14.6m	9.1m	5.7m	3.6m	2.1m	1.2m
140W / 5.8A	34.4m	21.6m	13.4m	8.5m	5.1m	3.3m	2.1m	1.2m
150W / 6.3A	32.0m	20.1m	12.5m	7.9m	4.8m	3.0m	1.8m	1.2m
160W / 6.7A	30.1m	18.9m	11.8m	7.3m	4.5m	2.7m	1.8m	0.9m
170W / 7.1A	28.3m	17.6m	10.9m	7.0m	4.2m	2.7m	1.5m	0.9m
180W / 7.5A	26.8m	16.7m	10.3m	6.7m	3.9m	2.4m	1.5m	0.9m
190W / 7.9A	25.3m	15.8m	10.0m	6.0m	3.9m	2.4m	1.5m	0.9m
200W / 8.3A	24.0m	14.9m	9.4m	5.7m	3.6m	2.1m	1.2m	0.9m
210W / 8.8A	22.8m	14.3m	8.8m	5.4m	3.3m	2.1m	1.2m	0.6m
220W / 9.2A	21.9m	13.7m	8.5m	5.4m	3.3m	2.1m	1.2m	0.6m
230W / 9.6A	21.0m	13.1m	8.2m	5.1m	3.0m	1.8m	1.2m	0.6m
240W / 10.0A	20.1m	12.5m	7.9m	4.8m	3.0m	1.8m	1.2m	0.6m
250W / 10.4A	19.2m	12.1m	7.6m	4.5m	2.7m	1.8m	0.9m	0.6m