

Aeon Flex

LINEAR SERIES

Let the light be shaped by your project, not the project be shaped by the restriction of the light. For the development of the Aeon Flex, the brief was simple – develop a flexible and contouring IP68 LED luminaire that could effortlessly conform to any project in any condition. In versatility we found possibility.

Top Emitting	234
Side Emitting	234
Mini	235



Customisable Length

Available in lengths up to 4000mm (for Top and Side) and 5000mm (for Mini). Each length can be seamlessly connected for larger applications.

Unique End Entry

A unique cable entry minimises dark spots when joining multiple lengths of Aeon Flex. This allows for rear, side and tail cable entry with a unique end cap design.



Dot Free Illumination

Aeon Flex boasts consistent and uniform illumination for a seamless and dot-free aesthetic.



Dual Connectors

Aeon Flex uses 200mm Male and Female IP67 connectors on opposite sides (for dual cable entry only).



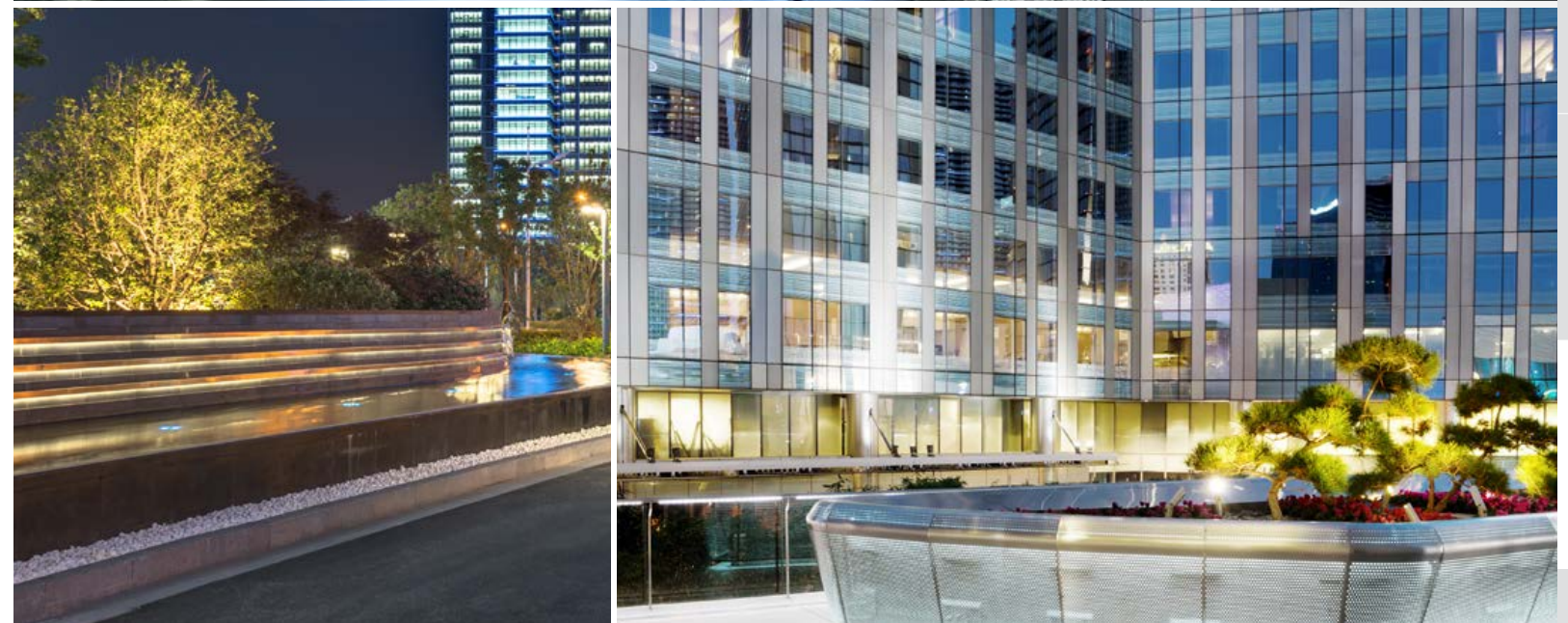
Polyurethane Encased

A polyurethane encapsulated design offers superior performance, durability and flexibility.



Innovative Thermal Design

The innovative thermal design allows for passive cooling for improved longevity and durability.



Top: External building application
Above & Right: Public space application



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LINEAR SERIES

COMPARISON CHART

Uniformity, flexibility and durability for projects of all shapes and sizes.

Comparatively to other flexible exterior luminaires, Aeon Flex is superior in versatility and durability for one simple reason — polyurethane (PU) encapsulation. Traditional epoxy, silicon gel and PVC solutions lack the same aesthetics and dependability. PU encapsulation is more flexible, durable and resistant to chemicals. Being PU encapsulated also allows for an IP68 rating, equating to an ability to be submerged in water up to 1.5 metres.

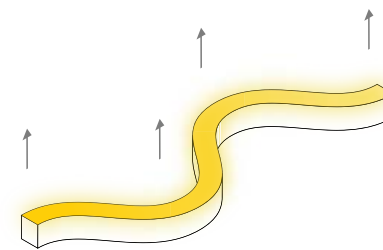
i Tip: When looking at Aeon Flex, Top Emitting and Side Emitting can be determined by turning the luminaire on and ascertaining which direction the light is coming from in relation to the flex.

	Epoxy	Silicon Gel	PVC	Polyurethane (Aeon Flex)
Aesthetic	○ Transparent	○ Translucent	○ Translucent	○ Crystal Clear
Flexibility	⤵ Doesn't recover well after bending	⤵ Can't recover fully flat	⤵ Doesn't recover well after bending	— Can recover fully flat
Durability	⌚ Smells at >30°C Cracks at <0°C	⌚ Yellows at >40°C Works at -40°C to 80°C	⌚ Yellows at >40°C Cracks at <0°C	⌚ Functions at -40°C to 80°C
UV Resistance	⦿ ~ 3 month lifetime	⦿ ~ 1 year lifetime	⦿ ~ 3 year lifetime	⦿ ~ 10 year lifetime



Side Emitting

Aeon Flex can be specified to be side emitting (in relation to the direction of the flex) – perfect for curving around surfaces when upward or downward light projection is desired.

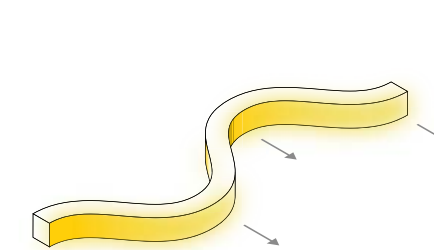


Light direction: **Side** in relation to flex



Top Emitting

Aeon Flex can be specified to be top emitting (in relation to the direction of the flex) – perfect for curving around surfaces when more direction light projection is desired.



Light direction: **Top** in relation to flex

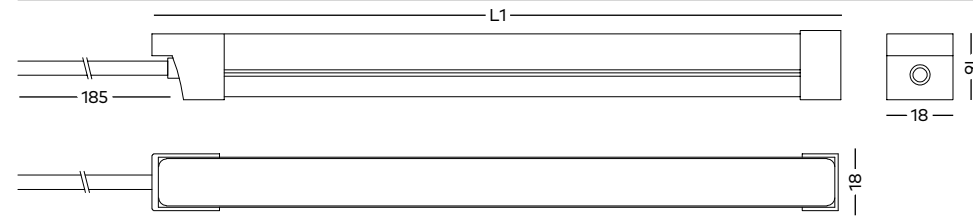
A	B	C	D	E	F	Product Family	Length/Power	C	Finish	D	CCT	E	Beam	F	Driver (DALI drivers can be configured via Product Toolbox)
AES1	2010	PU	32	F	F	Aeon Flex Side Emitting (Single Cable Entry) AES2 Aeon Flex Side Emitting (Dual Cable Entry) AET1 Aeon Flex Top Emitting (Single Cable Entry) AET2 Aeon Flex Top Emitting (Dual Cable Entry) AEM1 Aeon Flex Mini (Single Cable Entry) AEM2 Aeon Flex Mini (Dual Cable Entry)	1010 1000mm (10W/M) 2010 2000mm (10W/M) 3010 3000mm (10W/M) 4010 4000mm (10W/M) 5010 5000mm (10W/M)	PU	Polyurethane	27 2700K 30 3000K 40 4000K 60 6000K RG RGB	Flood F	CV201502 CV203002 CV206002 CV212002	24V/DC Drivers to be specified separately 15W 24VDC IP68 CV 30W 24VDC IP68 CV 60W 24VDC IP68 CV 120W 24VDC IP65 CV		
															320W 24VDC IP65 CV CV232001 OAT212001 Dim 1-10V 120VA OT120/220-240/24 Dim 1-10V 120VA OT240/220-240/24 OAZ24001 Dim 1-10V 240VA Dim 1-10V 240VA

Example: **AES12010.PU32.F**
Refer to data sheet for available configurations.
Visit Product Toolbox at unios.com/aeonflex to configure compatible Osram/Tridonic DALI drivers.

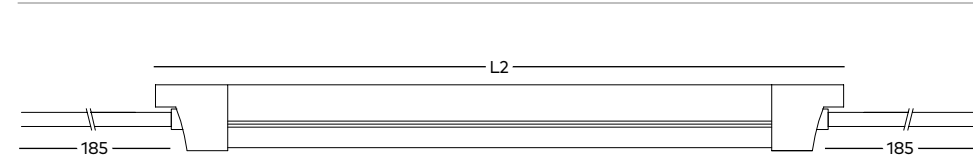
Top Emitting



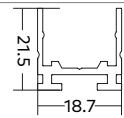
Single Cable Entry



Dual Cable Entry



Optional Aluminium Profile



AEFT2000.AC (2000mm)

L1 – Single Cable Entry Lengths

1020mm	2020mm
3020mm	4020mm

L2 – Dual Cable Entry Lengths

1030mm	2030mm
3030mm	4030mm

10W/Metre

10W (24V DC)	Absolute Luminous Flux			
	2700K	3000K	4000K	6000K
850lm	880lm	900lm	950lm	

Beam

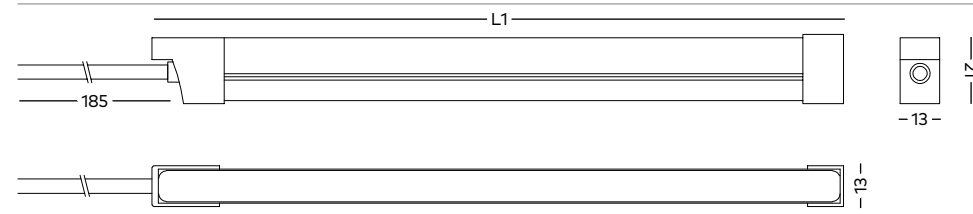
120°(F)

Please note: Maximum continuous length is 8 metres

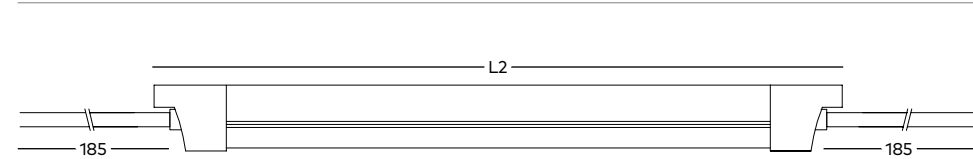
Side Emitting



Single Cable Entry



Dual Cable Entry



L1 – Single Cable Entry Lengths

1020mm	2020mm
3020mm	4020mm

L2 – Dual Cable Entry Lengths

1030mm	2030mm
3030mm	4030mm

10W/Metre

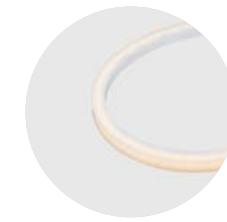
10W (24V DC)	Absolute Luminous Flux			
	2700K	3000K	4000K	6000K
330lm	500lm	580lm	650lm	

Beam

120°(F)

Please note: Maximum continuous length is 8 metres

Mini

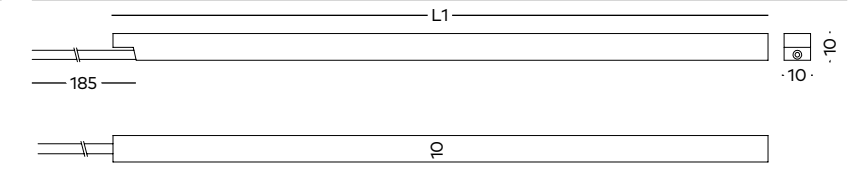


Optional Aluminium Profile

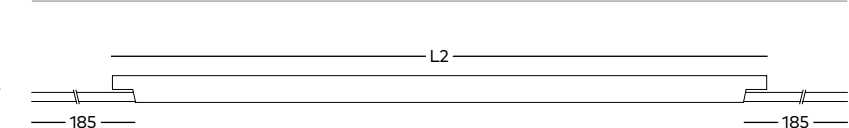


AEMT2000.AC (2000mm)

Single Cable Entry



Dual Cable Entry



L1 – Single Cable Entry Lengths

1021mm	2021mm	3021mm
4021mm	5021mm	

L2 – Dual Cable Entry Lengths

1028mm	2028mm	3028mm
4028mm	5028mm	

10W/Metre

Absolute Luminous Flux

10W (24V DC)	2700K	3000K	4000K	6000K
630lm	780lm	800lm	850lm	

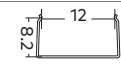
Beam

120°(F)

Please note: Maximum continuous length is 10 metres

Optional Accessories

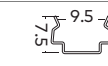
Top Emitting Accessory Kit	Side Emitting Accessory Kit	Mini Accessory Kit	Side/Top IP67 Accessory Kit
Incl. 20x clips & 5x end caps	Incl. 20x clips & 5x end caps	Incl. 20x clips & 5x end caps	Incl. 1x Male+Female Connector



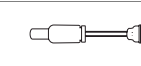
AA002



AA003



AA004



AA001 (Side/Top)
AA005 (Mini)

Please note when ordering Aeon Flex, 4 clips per metre plus 3 end caps and additional male+female IP67 connector are included. Only order an accessory kit when additional clips, end caps and male+female connectors are required.

General Specifications

Material | Encapsulated Polyurethane

Standard Cut Lengths
50mm

RGB Cut Lengths
100mm (Top/Side), 83mm (Mini)

IP | 68

Warranty | 5 Years

LED

Colour Temp | 2700K, 3000K, 4000K, 6000K, RGB

CRI | 80+

Efficacy | Up to 94lm/w

Colour Deviation | SDCM≤3,

Lifetime | >54,000h L70

Driver

Power Factor | >0.90

24V DC Non-Dimmable Remote Power Supply:

Power	IP68	IP65
	15/30/60W	120W

Please enquire for larger wattages

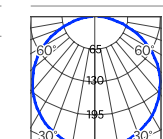
Dimming | 1-10V Dim (AD)
DALI Dim

Notes

Ensure that during installation the predetermined bending direction is never changed. The product may also not be twisted.

Minimum bend diameter for Mini is 150mm. Minimum bend diameter for Top and Side is 300mm.

Photometrics



α = 120°



A	B	C	D	E	F
AE51	2010	PU	32	F	
AE52				F	

Product Family: Aeon Flex Side Emitting (Single Cable Entry), Aeon Flex Side Emitting (Dual Cable Entry), Aeon Flex Top Emitting (Single Cable Entry), Aeon Flex Top Emitting (Dual Cable Entry), Aeon Flex Mini (Single Cable Entry), Aeon Flex Mini (Dual Cable Entry)

Length/Power: 1010 1000mm (10W/M), 2010 2000mm (10W/M), 3010 3000mm (10W/M), 4010 4000mm (10W/M), 5010 5000mm (10W/M)

Finish: PU Polyurethane

Beam: 2700K, 3000K, 4000K, 6000K, RGB

CCCT: 27, 30, 40, 60, RG

Beam: Flood, F

Driver (DALI drivers can be configured via Product Toolbox): 24V/DC Drivers to be specified separately, CV201502 15W 24VDC IP68 CV, CV203002 30W 24VDC IP68 CV, CV206002 60W 24VDC IP68 CV, CV212002 120W 24VDC IP65 CV, CV232001 320W 24VDC IP65 CV, OA212001 OT120/220-240/24 Dim 1-10V 120VA, OA224001 OT240/220-240/24 Dim 1-10V 240VA, CV= Constant Voltage

Example: AE512010.PU32.F
Refer to data sheet for available configurations.
Visit Product Toolbox at unios.com/aeonflex to configure compatible Osram/Tridonic DALI drivers.