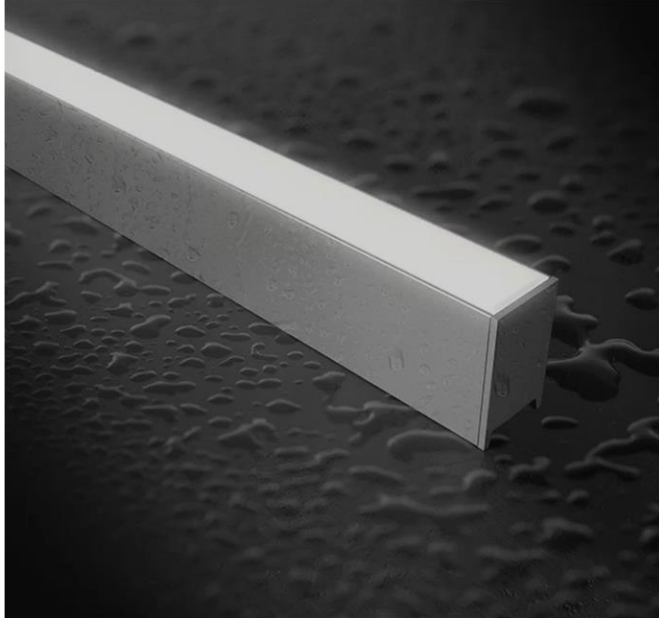


Opaline H-Line M IP67

IP67-rated white LED luminaire



Opaline H-Line M is a modular linear LED light with a clear cover designed for long-term outdoor professional lighting applications.

These waterproof modular LED lights are fitted with the highest quality NICHIA LEDs, with a wide range of Colour Rendering Index (CRI) and Colour Temperature (CCT) options from which to choose.

NICHIA LEDs guarantee the highest quality lighting and super-high efficacy. This LED strip is available with 3-step MacAdam or Single Bin LEDs.

Each module has integrated connectors for easy and reliable connection to other modules. The connectors are hidden inside the modules allowing the segments to be connected in a seamless line.

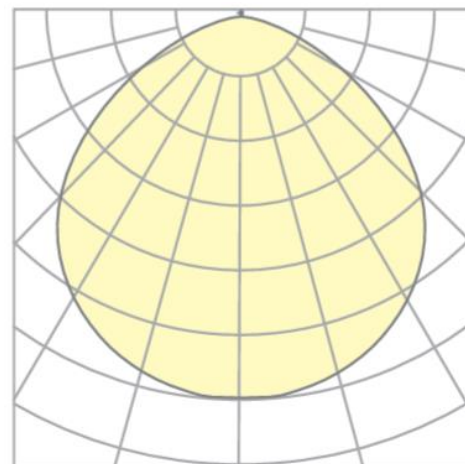
Key features

- Waterproof IP67 LED line for outdoor continuous line lighting applications
- Aluminium housing with integrated hidden connectors and crystal-clear encapsulation
- UV resistant
- 24V DC voltage input
- 3-step MacAdam or Single Bin LEDs
- Dimmable
- Highest quality components including Nichia LED chips
- High CRI 90+
- Stabilized current design with reverse voltage protection

Applications

- Outdoor edge lighting
- Outdoor decorative lighting
- Outdoor cove lighting

Photometrics



Specification – White 56 LEDs/m

Product	LEDs/m	Power	Voltage	CRI	CCT	Lumen output	Efficacy	Max run
AH-M-EO-50-5-N5-920-AG-IP-LEC-1000	56 LEDs/m	4.8 W/m	24 V	CRI 90+	2000K	122 Lm/m	25 Lm/W	13 m
AH-M-EO-50-5-N5-922-AG-IP-LEC-1000	56 LEDs/m	4.8 W/m	24 V	CRI 90+	2200K	132 Lm/m	27 Lm/W	13 m
AH-M-EO-50-5-N5-925-AG-IP-LEC-1000	56 LEDs/m	4.8 W/m	24 V	CRI 90+	2500K	143 Lm/m	30 Lm/W	13 m
AH-M-EO-50-5-N5-927-AG-IP-LEC-1000	56 LEDs/m	4.8 W/m	24 V	CRI 90+	2700K	201 Lm/m	42 Lm/W	13 m
AH-M-EO-50-5-N5-930-AG-IP-LEC-1000	56 LEDs/m	4.8 W/m	24 V	CRI 90+	3000K	212 Lm/m	44 Lm/W	13 m
AH-M-EO-50-5-N5-935-AG-IP-LEC-1000	56 LEDs/m	4.8 W/m	24 V	CRI 90+	3500K	217 Lm/m	45 Lm/W	13 m
AH-M-EO-50-5-N5-940-AG-IP-LEC-1000	56 LEDs/m	4.8 W/m	24 V	CRI 90+	4000K	220 Lm/m	46 Lm/W	13 m
AH-M-EO-50-5-N5-950-AG-IP-LEC-1000	56 LEDs/m	4.8 W/m	24 V	CRI 90+	5000K	221 Lm/m	46 Lm/W	13 m
AH-M-EO-50-5-N5-957-AG-IP-LEC-1000	56 LEDs/m	4.8 W/m	24 V	CRI 90+	5700K	213 Lm/m	44 Lm/W	13 m
AH-M-EO-50-5-N5-965-AG-IP-LEC-1000	56 LEDs/m	4.8 W/m	24 V	CRI 90+	6500K	213 Lm/m	44 Lm/W	13 m
AH-M-EO-50-10-N5-920-AG-IP-LEC-1000	56 LEDs/m	9.6 W/m	24 V	CRI 90+	2000K	237 Lm/m	25 Lm/W	7.5 m
AH-M-EO-50-10-N5-922-AG-IP-LEC-1000	56 LEDs/m	9.6 W/m	24 V	CRI 90+	2200K	257 Lm/m	27 Lm/W	7.5 m
AH-M-EO-50-10-N5-925-AG-IP-LEC-1000	56 LEDs/m	9.6 W/m	24 V	CRI 90+	2500K	278 Lm/m	29 Lm/W	7.5 m
AH-M-EO-50-10-N5-927-AG-IP-LEC-1000	56 LEDs/m	9.6 W/m	24 V	CRI 90+	2700K	395 Lm/m	41 Lm/W	7.5 m
AH-M-EO-50-10-N5-930-AG-IP-LEC-1000	56 LEDs/m	9.6 W/m	24 V	CRI 90+	3000K	416 Lm/m	43 Lm/W	7.5 m
AH-M-EO-50-10-N5-935-AG-IP-LEC-1000	56 LEDs/m	9.6 W/m	24 V	CRI 90+	3500K	426 Lm/m	44 Lm/W	7.5 m
AH-M-EO-50-10-N5-940-AG-IP-LEC-1000	56 LEDs/m	9.6 W/m	24 V	CRI 90+	4000K	432 Lm/m	45 Lm/W	7.5 m
AH-M-EO-50-10-N5-950-AG-IP-LEC-1000	56 LEDs/m	9.6 W/m	24 V	CRI 90+	5000K	435 Lm/m	45 Lm/W	7.5 m
AH-M-EO-50-10-N5-957-AG-IP-LEC-1000	56 LEDs/m	9.6 W/m	24 V	CRI 90+	5700K	419 Lm/m	44 Lm/W	7.5 m
AH-M-EO-50-10-N5-965-AG-IP-LEC-1000	56 LEDs/m	9.6 W/m	24 V	CRI 90+	6500K	419 Lm/m	44 Lm/W	7.5 m
AH-M-EO-50-15-N5-920-AG-IP-LEC-1000	56 LEDs/m	14.4 W/m	24 V	CRI 90+	2000K	347 Lm/m	24 Lm/W	6 m
AH-M-EO-50-15-N5-922-AG-IP-LEC-1000	56 LEDs/m	14.4 W/m	24 V	CRI 90+	2200K	375 Lm/m	26 Lm/W	6 m
AH-M-EO-50-15-N5-925-AG-IP-LEC-1000	56 LEDs/m	14.4 W/m	24 V	CRI 90+	2500K	407 Lm/m	28 Lm/W	6 m
AH-M-EO-50-15-N5-927-AG-IP-LEC-1000	56 LEDs/m	14.4 W/m	24 V	CRI 90+	2700K	583 Lm/m	40 Lm/W	6 m
AH-M-EO-50-15-N5-930-AG-IP-LEC-1000	56 LEDs/m	14.4 W/m	24 V	CRI 90+	3000K	612 Lm/m	43 Lm/W	6 m
AH-M-EO-50-15-N5-935-AG-IP-LEC-1000	56 LEDs/m	14.4 W/m	24 V	CRI 90+	3500K	628 Lm/m	44 Lm/W	6 m
AH-M-EO-50-15-N5-940-AG-IP-LEC-1000	56 LEDs/m	14.4 W/m	24 V	CRI 90+	4000K	637 Lm/m	44 Lm/W	6 m
AH-M-EO-50-15-N5-950-AG-IP-LEC-1000	56 LEDs/m	14.4 W/m	24 V	CRI 90+	5000K	641 Lm/m	45 Lm/W	6 m
AH-M-EO-50-15-N5-957-AG-IP-LEC-1000	56 LEDs/m	14.4 W/m	24 V	CRI 90+	5700K	619 Lm/m	43 Lm/W	6 m
AH-M-EO-50-15-N5-965-AG-IP-LEC-1000	56 LEDs/m	14.4 W/m	24 V	CRI 90+	6500K	619 Lm/m	43 Lm/W	6 m

Specifications are for an Anodized Grey (AG) Luminaire (L) with End Connection (E), that is 1000 mm long (1000).

Dimensions



Specification – White 56 LEDs/m continued

Product	LEDs/m	Power	Voltage	CRI	CCT	Lumen output	Efficacy	Max run
AH-M-EO-50-20-N5-920-AG-IP-LEC-1000	56 LEDs/m	18.2 W/m	24 V	CRI 90+	2000K	430 Lm/m	24 Lm/W	5 m
AH-M-EO-50-20-N5-922-AG-IP-LEC-1000	56 LEDs/m	18.2 W/m	24 V	CRI 90+	2200K	466 Lm/m	26 Lm/W	5 m
AH-M-EO-50-20-N5-925-AG-IP-LEC-1000	56 LEDs/m	18.2 W/m	24 V	CRI 90+	2500K	505 Lm/m	28 Lm/W	5 m
AH-M-EO-50-20-N5-927-AG-IP-LEC-1000	56 LEDs/m	18.2 W/m	24 V	CRI 90+	2700K	728 Lm/m	40 Lm/W	5 m
AH-M-EO-50-20-N5-930-AG-IP-LEC-1000	56 LEDs/m	18.2 W/m	24 V	CRI 90+	3000K	765 Lm/m	42 Lm/W	5 m
AH-M-EO-50-20-N5-935-AG-IP-LEC-1000	56 LEDs/m	18.2 W/m	24 V	CRI 90+	3500K	784 Lm/m	43 Lm/W	5 m
AH-M-EO-50-20-N5-940-AG-IP-LEC-1000	56 LEDs/m	18.2 W/m	24 V	CRI 90+	4000K	795 Lm/m	44 Lm/W	5 m
AH-M-EO-50-20-N5-950-AG-IP-LEC-1000	56 LEDs/m	18.2 W/m	24 V	CRI 90+	5000K	802 Lm/m	44 Lm/W	5 m
AH-M-EO-50-20-N5-957-AG-IP-LEC-1000	56 LEDs/m	18.2 W/m	24 V	CRI 90+	5700K	773 Lm/m	42 Lm/W	5 m
AH-M-EO-50-20-N5-965-AG-IP-LEC-1000	56 LEDs/m	18.2 W/m	24 V	CRI 90+	6500K	773 Lm/m	42 Lm/W	5 m

Specifications are for an Anodized Grey (AG) Luminaire (L) with End Connection (E), that is 1000 mm long (1000).

Specification – White 112 LEDs/m

Product	LEDs/m	Power	Voltage	CRI	CCT	Lumen output	Efficacy	Max run
AH-M-EO-100-5-N5-920-AG-IP-LEC-1000	112 LEDs/m	4.8 W/m	24 V	CRI 90+	2000K	123 Lm/m	26 Lm/W	13 m
AH-M-EO-100-5-N5-922-AG-IP-LEC-1000	112 LEDs/m	4.8 W/m	24 V	CRI 90+	2200K	135 Lm/m	28 Lm/W	13 m
AH-M-EO-100-5-N5-925-AG-IP-LEC-1000	112 LEDs/m	4.8 W/m	24 V	CRI 90+	2500K	145 Lm/m	30 Lm/W	13 m
AH-M-EO-100-5-N5-927-AG-IP-LEC-1000	112 LEDs/m	4.8 W/m	24 V	CRI 90+	2700K	203 Lm/m	42 Lm/W	13 m
AH-M-EO-100-5-N5-930-AG-IP-LEC-1000	112 LEDs/m	4.8 W/m	24 V	CRI 90+	3000K	214 Lm/m	45 Lm/W	13 m
AH-M-EO-100-5-N5-935-AG-IP-LEC-1000	112 LEDs/m	4.8 W/m	24 V	CRI 90+	3500K	219 Lm/m	46 Lm/W	13 m
AH-M-EO-100-5-N5-940-AG-IP-LEC-1000	112 LEDs/m	4.8 W/m	24 V	CRI 90+	4000K	222 Lm/m	46 Lm/W	13 m
AH-M-EO-100-5-N5-950-AG-IP-LEC-1000	112 LEDs/m	4.8 W/m	24 V	CRI 90+	5000K	223 Lm/m	46 Lm/W	13 m
AH-M-EO-100-5-N5-957-AG-IP-LEC-1000	112 LEDs/m	4.8 W/m	24 V	CRI 90+	5700K	215 Lm/m	45 Lm/W	13 m
AH-M-EO-100-5-N5-965-AG-IP-LEC-1000	112 LEDs/m	4.8 W/m	24 V	CRI 90+	6500K	215 Lm/m	45 Lm/W	13 m
AH-M-EO-100-10-N5-920-AG-IP-LEC-1000	112 LEDs/m	9.6 W/m	24 V	CRI 90+	2000K	244 Lm/m	25 Lm/W	9 m
AH-M-EO-100-10-N5-922-AG-IP-LEC-1000	112 LEDs/m	9.6 W/m	24 V	CRI 90+	2200K	263 Lm/m	27 Lm/W	9 m
AH-M-EO-100-10-N5-925-AG-IP-LEC-1000	112 LEDs/m	9.6 W/m	24 V	CRI 90+	2500K	286 Lm/m	30 Lm/W	9 m
AH-M-EO-100-10-N5-927-AG-IP-LEC-1000	112 LEDs/m	9.6 W/m	24 V	CRI 90+	2700K	403 Lm/m	42 Lm/W	9 m
AH-M-EO-100-10-N5-930-AG-IP-LEC-1000	112 LEDs/m	9.6 W/m	24 V	CRI 90+	3000K	423 Lm/m	44 Lm/W	9 m
AH-M-EO-100-10-N5-935-AG-IP-LEC-1000	112 LEDs/m	9.6 W/m	24 V	CRI 90+	3500K	434 Lm/m	45 Lm/W	9 m
AH-M-EO-100-10-N5-940-AG-IP-LEC-1000	112 LEDs/m	9.6 W/m	24 V	CRI 90+	4000K	440 Lm/m	46 Lm/W	9 m
AH-M-EO-100-10-N5-950-AG-IP-LEC-1000	112 LEDs/m	9.6 W/m	24 V	CRI 90+	5000K	442 Lm/m	46 Lm/W	9 m
AH-M-EO-100-10-N5-957-AG-IP-LEC-1000	112 LEDs/m	9.6 W/m	24 V	CRI 90+	5700K	426 Lm/m	44 Lm/W	9 m
AH-M-EO-100-10-N5-965-AG-IP-LEC-1000	112 LEDs/m	9.6 W/m	24 V	CRI 90+	6500K	426 Lm/m	44 Lm/W	9 m

Specifications are for an Anodized Grey (AG) Luminaire (L) with End Connection (E), that is 1000 mm long (1000).

Specification – White 112 LEDs/m continued

Product	LEDs/m	Power	Voltage	CRI	CCT	Lumen output	Efficacy	Max run
AH-M-EO-100-15-N5-920-AG-IP-LEC-1000	112 LEDs/m	14.4 W/m	24 V	CRI 90+	2000K	361 lm/m	25 lm/W	7 m
AH-M-EO-100-15-N5-922-AG-IP-LEC-1000	112 LEDs/m	14.4 W/m	24 V	CRI 90+	2200K	390 lm/m	27 lm/W	7 m
AH-M-EO-100-15-N5-925-AG-IP-LEC-1000	112 LEDs/m	14.4 W/m	24 V	CRI 90+	2500K	423 lm/m	29 lm/W	7 m
AH-M-EO-100-15-N5-927-AG-IP-LEC-1000	112 LEDs/m	14.4 W/m	24 V	CRI 90+	2700K	599 lm/m	42 lm/W	7 m
AH-M-EO-100-15-N5-930-AG-IP-LEC-1000	112 LEDs/m	14.4 W/m	24 V	CRI 90+	3000K	629 lm/m	44 lm/W	7 m
AH-M-EO-100-15-N5-935-AG-IP-LEC-1000	112 LEDs/m	14.4 W/m	24 V	CRI 90+	3500K	645 lm/m	45 lm/W	7 m
AH-M-EO-100-15-N5-940-AG-IP-LEC-1000	112 LEDs/m	14.4 W/m	24 V	CRI 90+	4000K	654 lm/m	45 lm/W	7 m
AH-M-EO-100-15-N5-950-AG-IP-LEC-1000	112 LEDs/m	14.4 W/m	24 V	CRI 90+	5000K	657 lm/m	46 lm/W	7 m
AH-M-EO-100-15-N5-957-AG-IP-LEC-1000	112 LEDs/m	14.4 W/m	24 V	CRI 90+	5700K	634 lm/m	44 lm/W	7 m
AH-M-EO-100-15-N5-965-AG-IP-LEC-1000	112 LEDs/m	14.4 W/m	24 V	CRI 90+	6500K	634 lm/m	44 lm/W	7 m
AH-M-EO-100-20-N5-920-AG-IP-LEC-1000	112 LEDs/m	19.2 W/m	24 V	CRI 90+	2000K	475 lm/m	25 lm/W	5.5 m
AH-M-EO-100-20-N5-922-AG-IP-LEC-1000	112 LEDs/m	19.2 W/m	24 V	CRI 90+	2200K	513 lm/m	27 lm/W	5.5 m
AH-M-EO-100-20-N5-925-AG-IP-LEC-1000	112 LEDs/m	19.2 W/m	24 V	CRI 90+	2500K	557 lm/m	29 lm/W	5.5 m
AH-M-EO-100-20-N5-927-AG-IP-LEC-1000	112 LEDs/m	19.2 W/m	24 V	CRI 90+	2700K	791 lm/m	41 lm/W	5.5 m
AH-M-EO-100-20-N5-930-AG-IP-LEC-1000	112 LEDs/m	19.2 W/m	24 V	CRI 90+	3000K	831 lm/m	43 lm/W	5.5 m
AH-M-EO-100-20-N5-935-AG-IP-LEC-1000	112 LEDs/m	19.2 W/m	24 V	CRI 90+	3500K	853 lm/m	44 lm/W	5.5 m
AH-M-EO-100-20-N5-940-AG-IP-LEC-1000	112 LEDs/m	19.2 W/m	24 V	CRI 90+	4000K	864 lm/m	45 lm/W	5.5 m
AH-M-EO-100-20-N5-950-AG-IP-LEC-1000	112 LEDs/m	19.2 W/m	24 V	CRI 90+	5000K	869 lm/m	45 lm/W	5.5 m
AH-M-EO-100-20-N5-957-AG-IP-LEC-1000	112 LEDs/m	19.2 W/m	24 V	CRI 90+	5700K	839 lm/m	44 lm/W	5.5 m
AH-M-EO-100-20-N5-965-AG-IP-LEC-1000	112 LEDs/m	19.2 W/m	24 V	CRI 90+	6500K	839 lm/m	44 lm/W	5.5 m

Specifications are for an Anodized Grey (AG) Luminaire (L) with End Connection (E), that is 1000 mm long (1000).

Specification – RGB

Product	LEDs/m	Power	Lumens / m	Efficacy	Voltage	Max run
AH-M-EO-50-12-N5-RGB-AG-IP-LEC-1000	48 LEDs/m	11.52 W/m	216 lm/m	19 lm/W	24 V	6.5 m
AH-M-EO-50-7-N5-RGB-AG-IP-LEC-1000	48 LEDs/m	7.2 W/m	143 lm/m	20 lm/W	24 V	9 m
AH-M-EO-100-12-N5-RGB-AG-IP-LEC-1000	96 LEDs/m	11.52 W/m	216 lm/m	19 lm/W	24 V	9.5 m
AH-M-EO-100-15-N5-RGB-AG-IP-LEC-1000	96 LEDs/m	14.4 W/m	271 lm/m	19 lm/W	24 V	8 m
AH-M-EO-100-25-N5-RGB-AG-IP-LEC-1000	96 LEDs/m	23.0 W/m	434 lm/m	19 lm/W	24 V	5.5 m

Specifications are for an Anodized Grey (AG) Luminaire (L) with End Connection (E), that is 1000 mm long (1000).

Fitting options

Housing colour (AH-S-EO-50-10-N5-920-**AG**-LEC-1000)

Anodized grey (AG)

Powder coated white (WH)*

Powder coated black (BK)*

* Powder coated options only available on request.

Segment layout (AH-S-EO-50-10-N5-920-AG-LEC-1000)

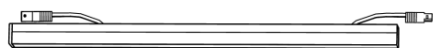
Individual Luminaire

A standalone luminaire (L) with a power connector and endcaps on both ends.

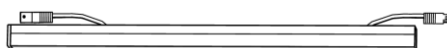


Continuous line

Used to create a continuous line of light with a start module (S), one or more middle modules (M) and an end module (E).



Start module (S) with two connectors and endcap at the start



Middle module (M) with two connectors and no endcaps



End module (E) with one connector and an endcap at the end

Full module

A full module (F) with two connectors and two endcaps. Creates non-continuous lengths of light as the endcaps are visible.



Full module (F)



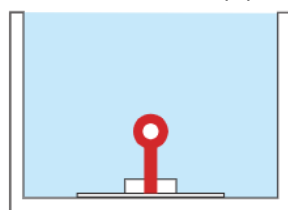
Full module (F)



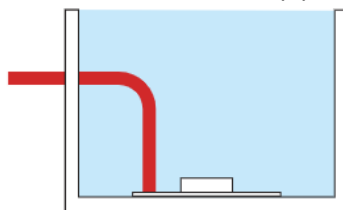
Luminaire (L)
or full module (F)

Connection type (AH-S-EO-50-10-N5-920-AG-LEC-1000)

End exit wire (E)



Side exit wire (S)



Back exit wire (B)

