

Opaline L 100

IP67-rated LED luminaire



Opaline L is an IP67-rated rigid waterproof linear white LED luminaire with opal encapsulation.

These waterproof LED luminaires are designed for long-term professional lighting applications and are ideal for all types of outdoor LED lighting applications including decorative, border, cove, edge-lighting and many more.

An extra-long lifetime and stable performance are guaranteed by using only the highest quality materials, including NICHIA LEDs, and a built-in current stabilization system.

Powerful, versatile, robust, Opaline L provides a reliable long-term lighting solution to lighting designers.

Key features

- Waterproof IP67 LED line for outdoor linear lighting applications
- Aluminium housing with opal encapsulation for homogenous illumination
- UV resistant
- 24V DC voltage input
- 3-step MacAdam or Single Bin LEDs
- Dimmable
- Highest quality Nichia LED ICs
- High CRI90+
- Stabilized current design with reverse voltage protection
- Available in any length in 125 mm steps

Applications

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

Dimensions



Specification - White

Product	Power	Voltage	CRI	CCT	Lumens / m	Efficacy
FXO.A017M IE_ AGY EOP / FL112/Nx G5 04W 918 L1000 / HR.P1X.L200	4.8 W/m	24 V	CRI 90+	1800K	140 Lm/m	29 Lm/W
FXO.A017M IE_ AGY EOP / FL112/Nx G5 04W 920 L1000 / HR.P1X.L200	4.8 W/m	24 V	CRI 90+	2000K	149 Lm/m	31 Lm/W
FXO.A017M IE_ AGY EOP / FL112/Nx G5 04W 922 L1000 / HR.P1X.L200	4.8 W/m	24 V	CRI 90+	2200K	163 Lm/m	34 Lm/W
FXO.A017M IE_ AGY EOP / FL112/Nx G5 04W 925 L1000 / HR.P1X.L200	4.8 W/m	24 V	CRI 90+	2500K	175 Lm/m	36 Lm/W
FXO.A017M IE_ AGY EOP / FL112/Nx G5 04W T927 L1000 / HR.P1X.L200	4.8 W/m	24 V	CRI 90+	2700K	245 Lm/m	51 Lm/W
FXO.A017M IE_ AGY EOP / FL112/Nx G5 04W T930 L1000 / HR.P1X.L200	4.8 W/m	24 V	CRI 90+	3000K	258 Lm/m	54 Lm/W
FXO.A017M IE_ AGY EOP / FL112/Nx G5 04W T935 L1000 / HR.P1X.L200	4.8 W/m	24 V	CRI 90+	3500K	264 Lm/m	55 Lm/W
FXO.A017M IE_ AGY EOP / FL112/Nx G5 04W T940 L1000 / HR.P1X.L200	4.8 W/m	24 V	CRI 90+	4000K	268 Lm/m	56 Lm/W
FXO.A017M IE_ AGY EOP / FL112/Nx G5 04W T950 L1000 / HR.P1X.L200	4.8 W/m	24 V	CRI 90+	5000K	269 Lm/m	56 Lm/W
FXO.A017M IE_ AGY EOP / FL112/Nx G5 04W T957 L1000 / HR.P1X.L200	4.8 W/m	24 V	CRI 90+	5700K	259 Lm/m	54 Lm/W
FXO.A017M IE_ AGY EOP / FL112/Nx G5 04W T965 L1000 / HR.P1X.L200	4.8 W/m	24 V	CRI 90+	6500K	259 Lm/m	54 Lm/W
FXO.A017M IE_ AGY EOP / FL112/Nx G5 09W 918 L1000 / HR.P1X.L200	9.6 W/m	24 V	CRI 90+	1800K	279 Lm/m	29 Lm/W
FXO.A017M IE_ AGY EOP / FL112/Nx G5 09W 920 L1000 / HR.P1X.L200	9.6 W/m	24 V	CRI 90+	2000K	294 Lm/m	31 Lm/W
FXO.A017M IE_ AGY EOP / FL112/Nx G5 09W 922 L1000 / HR.P1X.L200	9.6 W/m	24 V	CRI 90+	2200K	318 Lm/m	33 Lm/W
FXO.A017M IE_ AGY EOP / FL112/Nx G5 09W 925 L1000 / HR.P1X.L200	9.6 W/m	24 V	CRI 90+	2500K	345 Lm/m	36 Lm/W
FXO.A017M IE_ AGY EOP / FL112/Nx G5 09W T927 L1000 / HR.P1X.L200	9.6 W/m	24 V	CRI 90+	2700K	487 Lm/m	51 Lm/W
FXO.A017M IE_ AGY EOP / FL112/Nx G5 09W T930 L1000 / HR.P1X.L200	9.6 W/m	24 V	CRI 90+	3000K	511 Lm/m	53 Lm/W
FXO.A017M IE_ AGY EOP / FL112/Nx G5 09W T935 L1000 / HR.P1X.L200	9.6 W/m	24 V	CRI 90+	3500K	524 Lm/m	55 Lm/W
FXO.A017M IE_ AGY EOP / FL112/Nx G5 09W T940 L1000 / HR.P1X.L200	9.6 W/m	24 V	CRI 90+	4000K	531 Lm/m	55 Lm/W
FXO.A017M IE_ AGY EOP / FL112/Nx G5 09W T950 L1000 / HR.P1X.L200	9.6 W/m	24 V	CRI 90+	5000K	533 Lm/m	56 Lm/W
FXO.A017M IE_ AGY EOP / FL112/Nx G5 09W T957 L1000 / HR.P1X.L200	9.6 W/m	24 V	CRI 90+	5700K	515 Lm/m	54 Lm/W
FXO.A017M IE_ AGY EOP / FL112/Nx G5 09W T965 L1000 / HR.P1X.L200	9.6 W/m	24 V	CRI 90+	6500K	515 Lm/m	54 Lm/W

Specifications are for a Luminaire (I) with End Connection (E) in Anodized Grey (AGY), that is 1000 mm long (L1000).

Specification - White

Product	Power	Voltage	CRI	CCT	Lumens / m	Efficacy
FXO.A017M IE_ AGY EOP / FL112/Nx G5 14W 918 L1000 / HR.P1X.L200	14.4 W/m	24 V	CRI 90+	1800K	415 Lm/m	29 Lm/W
FXO.A017M IE_ AGY EOP / FL112/Nx G5 14W 920 L1000 / HR.P1X.L200	14.4 W/m	24 V	CRI 90+	2000K	435 Lm/m	30 Lm/W
FXO.A017M IE_ AGY EOP / FL112/Nx G5 14W 922 L1000 / HR.P1X.L200	14.4 W/m	24 V	CRI 90+	2200K	471 Lm/m	33 Lm/W
FXO.A017M IE_ AGY EOP / FL112/Nx G5 14W 925 L1000 / HR.P1X.L200	14.4 W/m	24 V	CRI 90+	2500K	511 Lm/m	35 Lm/W
FXO.A017M IE_ AGY EOP / FL112/Nx G5 14W T927 L1000 / HR.P1X.L200	14.4 W/m	24 V	CRI 90+	2700K	723 Lm/m	50 Lm/W
FXO.A017M IE_ AGY EOP / FL112/Nx G5 14W T930 L1000 / HR.P1X.L200	14.4 W/m	24 V	CRI 90+	3000K	760 Lm/m	53 Lm/W
FXO.A017M IE_ AGY EOP / FL112/Nx G5 14W T935 L1000 / HR.P1X.L200	14.4 W/m	24 V	CRI 90+	3500K	779 Lm/m	54 Lm/W
FXO.A017M IE_ AGY EOP / FL112/Nx G5 14W T940 L1000 / HR.P1X.L200	14.4 W/m	24 V	CRI 90+	4000K	790 Lm/m	55 Lm/W
FXO.A017M IE_ AGY EOP / FL112/Nx G5 14W T950 L1000 / HR.P1X.L200	14.4 W/m	24 V	CRI 90+	5000K	794 Lm/m	55 Lm/W
FXO.A017M IE_ AGY EOP / FL112/Nx G5 14W T957 L1000 / HR.P1X.L200	14.4 W/m	24 V	CRI 90+	5700K	766 Lm/m	53 Lm/W
FXO.A017M IE_ AGY EOP / FL112/Nx G5 14W T965 L1000 / HR.P1X.L200	14.4 W/m	24 V	CRI 90+	6500K	766 Lm/m	53 Lm/W
FXO.A017M IE_ AGY EOP / FL112/Nx G5 19W 918 L1000 / HR.P1X.L200	19.2 W/m	24 V	CRI 90+	1800K	548 Lm/m	29 Lm/W
FXO.A017M IE_ AGY EOP / FL112/Nx G5 19W 920 L1000 / HR.P1X.L200	19.2 W/m	24 V	CRI 90+	2000K	573 Lm/m	30 Lm/W
FXO.A017M IE_ AGY EOP / FL112/Nx G5 19W 922 L1000 / HR.P1X.L200	19.2 W/m	24 V	CRI 90+	2200K	620 Lm/m	32 Lm/W
FXO.A017M IE_ AGY EOP / FL112/Nx G5 19W 925 L1000 / HR.P1X.L200	19.2 W/m	24 V	CRI 90+	2500K	672 Lm/m	35 Lm/W
FXO.A017M IE_ AGY EOP / FL112/Nx G5 19W T927 L1000 / HR.P1X.L200	19.2 W/m	24 V	CRI 90+	2700K	955 Lm/m	50 Lm/W
FXO.A017M IE_ AGY EOP / FL112/Nx G5 19W T930 L1000 / HR.P1X.L200	19.2 W/m	24 V	CRI 90+	3000K	1004 Lm/m	52 Lm/W
FXO.A017M IE_ AGY EOP / FL112/Nx G5 19W T935 L1000 / HR.P1X.L200	19.2 W/m	24 V	CRI 90+	3500K	1029 Lm/m	54 Lm/W
FXO.A017M IE_ AGY EOP / FL112/Nx G5 19W T940 L1000 / HR.P1X.L200	19.2 W/m	24 V	CRI 90+	4000K	1044 Lm/m	54 Lm/W
FXO.A017M IE_ AGY EOP / FL112/Nx G5 19W T950 L1000 / HR.P1X.L200	19.2 W/m	24 V	CRI 90+	5000K	1050 Lm/m	55 Lm/W
FXO.A017M IE_ AGY EOP / FL112/Nx G5 19W T957 L1000 / HR.P1X.L200	19.2 W/m	24 V	CRI 90+	5700K	1013 Lm/m	53 Lm/W
FXO.A017M IE_ AGY EOP / FL112/Nx G5 19W T965 L1000 / HR.P1X.L200	19.2 W/m	24 V	CRI 90+	6500K	1013 Lm/m	53 Lm/W

Specifications are for a Luminaire (I) with End Connection (E) in Anodized Grey (AGY), that is 1000 mm long (L1000).

Specification – Tuneable White

Product	LEDs/m	Power	Voltage	CRI	CCT	Lumens / m	Efficacy
FXO.A017M IE_ AGY EOP / TW56/NN G5 09W 918T965 L1000 / HR.P1X.L200	56 LEDs/m	9.6 W/m	24 V	CRI 90+	1800K - 6500K	397 Lm/m	41 Lm/W
FXO.A017M IE_ AGY EOP / TW70/NN G5 19W 918T965 L1000 / HR.P1X.L200/	70 LEDs/m	9.6 W/m	24 V	CRI 90+	1800K - 6500K	398 Lm/m	41 Lm/W
FXO.A017M IE_ AGY EOP / TW56/NN G5 19W 918T965 L1000 / HR.P1X.L200/	56 LEDs/m	19.2 W/m	24 V	CRI 90+	1800K - 6500K	780 Lm/m	41 Lm/W
FXO.A017M IE_ AGY EOP / TW70/NN G5 19W 918T965 L1000 / HR.P1X.L200/	70 LEDs/m	19.2 W/m	24 V	CRI 90+	1800K - 6500K	786 Lm/m	41 Lm/W

Specifications are for a Luminaire (I) with End Connection (E) in Anodized Grey (AGY), that is 1000 mm long (L1000).

Specification – RGB

Product	LEDs/m	Power	Voltage	Lumens / m	Efficacy
FXO.A017M IE_ AGY EOP / RGB96/Nx G5 11W L1000 / HR.P1X.L200/	96 LEDs/m	11.5 W/m	24 V	168 Lm/m (R: 36, G: 107, B: 24)	15 Lm/W
FXO.A017M IE_ AGY EOP / RGB96/Nx G5 14W L1000 / HR.P1X.L200/	96 LEDs/m	14.4 W/m	24 V	210 Lm/m (R: 46, G: 134, B: 30)	15 Lm/W

Specifications are for a Luminaire (I) with End Connection (E) in Anodized Grey (AGY), that is 1000 mm long (L1000).

Specification – RGBW

Product	LEDs/m	Wattage	CRI	CCT	Lumen/m	Efficacy
FXO.A017M IE_ AGY EOP / RGBW48/NN G5 09W918 L1000 / HR.P1X.L200/	48 RGB + 48 White	9.6 W/m	CRI90	1800K	201 Lm/m	21 Lm/W
FXO.A017M IE_ AGY EOP / RGBW48/NN G5 09W920 L1000 / HR.P1X.L200/	48 RGB + 48 White	9.6 W/m	CRI90	2000K	174 Lm/m	18 Lm/W
FXO.A017M IE_ AGY EOP / RGBW48/NN G5 09W922 L1000 / HR.P1X.L200/	48 RGB + 48 White	9.6 W/m	CRI90	2200K	180 Lm/m	19 Lm/W
FXO.A017M IE_ AGY EOP / RGBW48/NN G5 09W925 L1000 / HR.P1X.L200/	48 RGB + 48 White	9.6 W/m	CRI90	2500K	185 Lm/m	19 Lm/W
FXO.A017M IE_ AGY EOP / RGBW48/NN G5 09WT927 L1000 / HR.P1X.L200/	48 RGB + 48 White	9.6 W/m	CRI90	2700K	216 Lm/m	23 Lm/W
FXO.A017M IE_ AGY EOP / RGBW48/NN G5 09WT930 L1000 / HR.P1X.L200/	48 RGB + 48 White	9.6 W/m	CRI90	3000K	221 Lm/m	23 Lm/W
FXO.A017M IE_ AGY EOP / RGBW48/NN G5 09WT935 L1000 / HR.P1X.L200/	48 RGB + 48 White	9.6 W/m	CRI90	3500K	224 Lm/m	23 Lm/W
FXO.A017M IE_ AGY EOP / RGBW48/NN G5 09WT940 L1000 / HR.P1X.L200/	48 RGB + 48 White	9.6 W/m	CRI90	4000K	225 Lm/m	23 Lm/W
FXO.A017M IE_ AGY EOP / RGBW48/NN G5 09WT950 L1000 / HR.P1X.L200/	48 RGB + 48 White	9.6 W/m	CRI90	5000K	226 Lm/m	24 Lm/W
FXO.A017M IE_ AGY EOP / RGBW48/NN G5 09WT957 L1000 / HR.P1X.L200/	48 RGB + 48 White	9.6 W/m	CRI90	5700K	222 Lm/m	23 Lm/W
FXO.A017M IE_ AGY EOP / RGBW48/NN G5 09WT965 L1000 / HR.P1X.L200/	48 RGB + 48 White	9.6 W/m	CRI90	6500K	222 Lm/m	23 Lm/W

Specifications are for a Luminaire (I) with End Connection (E) in Anodized Grey (AGY), that is 1000 mm long (L1000).

Specification – RGBW continued

Product	LEDs/m	Wattage	CRI	CCT	Lumen/m	Efficacy
FXO.A017M IE_ AGY EOP / RGBW48/NN G5 14W918 L1000 / HR.P1X.L200/	48 RGB + 48 White	14.4 W/m	CRI90	1800K	218 Lm/m	15 Lm/W
FXO.A017M IE_ AGY EOP / RGBW48/NN G5 14W920 L1000 / HR.P1X.L200/	48 RGB + 48 White	14.4 W/m	CRI90	2000K	252 Lm/m	18 Lm/W
FXO.A017M IE_ AGY EOP / RGBW48/NN G5 14W922 L1000 / HR.P1X.L200/	48 RGB + 48 White	14.4 W/m	CRI90	2200K	260 Lm/m	18 Lm/W
FXO.A017M IE_ AGY EOP / RGBW48/NN G5 14W925 L1000 / HR.P1X.L200/	48 RGB + 48 White	14.4 W/m	CRI90	2500K	269 Lm/m	19 Lm/W
FXO.A017M IE_ AGY EOP / RGBW48/NN G5 14WT927 L1000 / HR.P1X.L200/	48 RGB + 48 White	14.4 W/m	CRI90	2700K	314 Lm/m	22 Lm/W
FXO.A017M IE_ AGY EOP / RGBW48/NN G5 14WT930 L1000 / HR.P1X.L200/	48 RGB + 48 White	14.4 W/m	CRI90	3000K	322 Lm/m	22 Lm/W
FXO.A017M IE_ AGY EOP / RGBW48/NN G5 14WT935 L1000 / HR.P1X.L200/	48 RGB + 48 White	14.4 W/m	CRI90	3500K	327 Lm/m	23 Lm/W
FXO.A017M IE_ AGY EOP / RGBW48/NN G5 14WT940 L1000 / HR.P1X.L200/	48 RGB + 48 White	14.4 W/m	CRI90	4000K	329 Lm/m	23 Lm/W
FXO.A017M IE_ AGY EOP / RGBW48/NN G5 14WT950 L1000 / HR.P1X.L200/	48 RGB + 48 White	14.4 W/m	CRI90	5000K	308 Lm/m	21 Lm/W
FXO.A017M IE_ AGY EOP / RGBW48/NN G5 14WT957 L1000 / HR.P1X.L200/	48 RGB + 48 White	14.4 W/m	CRI90	5700K	323 Lm/m	22 Lm/W
FXO.A017M IE_ AGY EOP / RGBW48/NN G5 14WT965 L1000 / HR.P1X.L200/	48 RGB + 48 White	14.4 W/m	CRI90	6500K	323 Lm/m	22 Lm/W
FXO.A017M IE_ AGY EOP / RGBW48/NN G5 19W918 L1000 / HR.P1X.L200/	48 RGB + 48 White	19.2 W/m	CRI90	1800K	357 Lm/m	19 Lm/W
FXO.A017M IE_ AGY EOP / RGBW48/NN G5 19W920 L1000 / HR.P1X.L200/	48 RGB + 48 White	19.2 W/m	CRI90	2000K	366 Lm/m	19 Lm/W
FXO.A017M IE_ AGY EOP / RGBW48/NN G5 19W922 L1000 / HR.P1X.L200/	48 RGB + 48 White	19.2 W/m	CRI90	2200K	383 Lm/m	20 Lm/W
FXO.A017M IE_ AGY EOP / RGBW48/NN G5 19W925 L1000 / HR.P1X.L200/	48 RGB + 48 White	19.2 W/m	CRI90	2500K	401 Lm/m	21 Lm/W
FXO.A017M IE_ AGY EOP / RGBW48/NN G5 19WT927 L1000 / HR.P1X.L200/	48 RGB + 48 White	19.2 W/m	CRI90	2700K	498 Lm/m	26 Lm/W
FXO.A017M IE_ AGY EOP / RGBW48/NN G5 19WT930 L1000 / HR.P1X.L200/	48 RGB + 48 White	19.2 W/m	CRI90	3000K	515 Lm/m	27 Lm/W
FXO.A017M IE_ AGY EOP / RGBW48/NN G5 19WT935 L1000 / HR.P1X.L200/	48 RGB + 48 White	19.2 W/m	CRI90	3500K	523 Lm/m	27 Lm/W
FXO.A017M IE_ AGY EOP / RGBW48/NN G5 19WT940 L1000 / HR.P1X.L200/	48 RGB + 48 White	19.2 W/m	CRI90	4000K	528 Lm/m	28 Lm/W
FXO.A017M IE_ AGY EOP / RGBW48/NN G5 19WT950 L1000 / HR.P1X.L200/	48 RGB + 48 White	19.2 W/m	CRI90	5000K	530 Lm/m	28 Lm/W
FXO.A017M IE_ AGY EOP / RGBW48/NN G5 19WT957 L1000 / HR.P1X.L200/	48 RGB + 48 White	19.2 W/m	CRI90	5700K	517 Lm/m	27 Lm/W
FXO.A017M IE_ AGY EOP / RGBW48/NN G5 19WT965 L1000 / HR.P1X.L200/	48 RGB + 48 White	19.2 W/m	CRI90	6500K	517 Lm/m	27 Lm/W

Specifications are for a Luminaire (I) with End Connection (E) in Anodized Grey (AGY), that is 1000 mm long (L1000).

Fitting options

Housing colour (FXO.A017M IE_ **AGY** EOP / FL112/Nx G5 04W 918 L1000 / HR.P1X.L200)

Anodized grey (AGY)

Powder coated white (PWH)*

Powder coated black (PBK)*

* Powder coated options only available on request.

Segment layout (FXO.A017M IE_ **AGY** EOP / FL112/Nx G5 04W 918 L1000 / HR.P1X.L200)

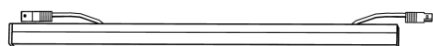
Individual Luminaire

A standalone luminaire (I) 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



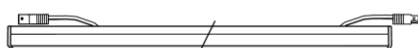
End module (E) with one connector and an endcap at the end

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)



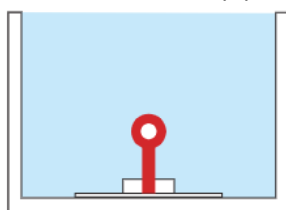
Full module (F)



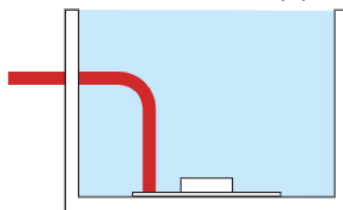
Luminaire (L)
or full module (F)

Connection type (FXO.A017M IE_ **AGY** EOP / FL112/Nx G5 04W 918 L1000 / HR.P1X.L200)

End exit wire (E)



Side exit wire (S)



Back exit wire (B)

