

48V Magnetic Lighting Core System Specification

English edition

DOCUMENT STATUS
Technical coordination draft V0.9

SOURCE
Supplier detail imagery captured
2026-09-05

APPLICATION
Early selection and spatial
coordination

Release boundary

This document organizes model, power, marked dimensions, material and beam-angle information visible in the available supplier detail imagery. It is not a third-party test report, certification record or fabrication drawing. All dimensions are in millimetres. Before ordering or construction, obtain manufacturer-approved confirmation of interfaces, tolerances, driver compatibility and final SKUs.

Shared system information

Item	Verified information	Engineering limitation
System voltage	DC 48V (from the product title)	Confirm power-supply capacity, circuit quantity and control method for the project.
Main material	Aluminum	Confirm finish and colour sample with the order.
Light source	LED	No verified evidence is available for output, SDCM, lifetime or efficacy.
Colour temperature	Supplier variants show multiple CCT options	Variant text contains inconsistencies; confirm the final CCT per SKU.
Photometric files	No laboratory IES or LDT data obtained	Do not use synthetic placeholders for lighting calculations.

Core module schedule

Coordination code	Type	Power	Beam	CRI marking	Marked envelope dimensions
FL-12	Magnetic flood light	12 W	120 deg	>=95*	300 x 22 x 25 mm
FL-18	Magnetic flood light	18 W	120 deg	>=95*	455 x 22 x 25 mm
FF-18	Folding flood light	18 W	120 deg	>=95*	330 x 22 mm; 105 mm deployed height
FG-06	Folding grille light	6 W	24 deg	>=95*	115 x 22 mm; 105 mm deployed height
FG-12	Folding grille light	12 W	24 deg	>=95*	224 x 22 mm; 105 mm deployed height
FG-18	Folding grille light	18 W	24 deg	Pending confirmation	330 x 22 mm; 105 mm deployed height
PD-10	Magnetic pendant	10 W	24 deg	>=95*	Body dia. 40 x 300 mm; 690 mm suspension
PD-20	Magnetic pendant	20 W	24 deg	>=95*	Body dia. 40 x 300 mm; 700 mm suspension
SP-10	Magnetic track light	10 W	24 deg	>=95*	Body dia. 48 x 118 mm; 109 mm adapter
SP-20	Magnetic track light	20 W	24 deg	>=95*	Body dia. 48 x 138 mm; 109 mm adapter
TR-RI	Recessed track	-	-	-	L=1000; 60 W x 48 H mm; 26 mm slot
TR-RE	External recessed track	-	-	-	L=1000; 60 W x 48 H mm; 26 mm slot

* Supplier imagery uses the field name 'Display >=95' and also presents RA >=95 in promotional copy. This draft records that source claim but does not treat it as a third-party measured value. The FG-18 image contains conflicting colour-rendering claims, so its CRI remains unpublished.

Design and procurement checklist

Complete every item and obtain responsible approval before upgrading V0.9 to a formal release.

Check	Current status	Evidence required for formal release
Luminous flux / efficacy	Missing	Integrating-sphere or LM-79-type test report
IES / LDT	Missing	Goniophotometric file for every power, beam and optical version
Electrical safety	Missing	Rated current, power factor, surge, insulation class and applicable certification
Dimming and control	To confirm	Actual version matrix for On/Off, DALI, 0-10V and other options
Installation interface	Partial dimensions	Approved track section, latch, tolerance and feed-terminal drawings
Lifetime and warranty	To confirm	L70/L80 data, test conditions and formal warranty terms
Packaging and weight	Missing	Net weight, gross weight, carton size and packing quantity

Source traceability

Supplier product ID: 1601248772903. Original title: [Annual Sale] Pro DC 48V Aluminum Modern LED Magnetic Track Rail System for Home Office. Source URL: https://www.alibaba.com/product-detail/-Annual-Sale-Pro-DC-48V_1601248772903.html. Source imagery is archived locally under tmp/pdfs/source-1601248772903.