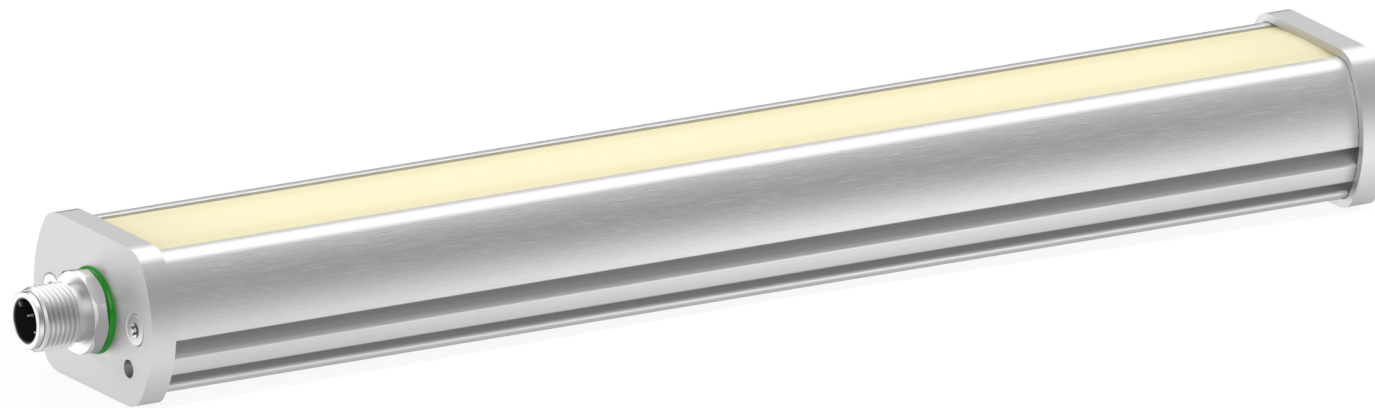








# Functional · FR Series White 3000K

lumher



<b>24 V</b> DC	<b>125</b> lm/W	 NOT CASCADABLE	 75 mm INCREMENTAL	 FUNCTIONAL	<b>CABLE</b> M12A
<b>POWER</b> 1x <b>ECO</b> 0.5x	<b>IP40</b> <b>IP65</b>	 <b>PWM</b> DIMABLE	 CLASS III	<b>36</b> MONTHS	 MADE IN SPAIN

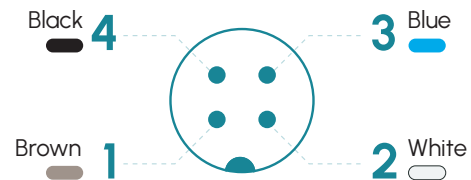
## Technical specifications

Power supply voltage	24 Vdc $\pm$ 5%	
Luminous efficiency	125 lm/W	
PWM regulation (Max 25 KHz)	min. 0%	max. 100%
Wavelength	Warm white	3000K
Angle of aperture	Semidiffuse	60°
	Ultradiffuse	110°
Max. number of cascadable modules	This luminaire is not cascadable	
Electrical protections	Transient overvoltages	YES
	Polarity reversal	YES
	Current stabilizer	YES
Colour Rendering Index (CRI)	$\geq$ 90	
IP Rating	IP40 or IP65	
Protection type	Class III	
Operating temperature	POWER version	-10 a +40 °C
	ECO version	-10 a +50° C
Body material	Anodized aluminum	
Side cover material	Anodized aluminum	
Diffuser material	Polycarbonate	
Connection types	M12A, 2m cable, M12A connector with cable	
Standards	RoHs, CE	

## Connection

Input M12A - Cable	Power	Eco	Dual
Pin 1 - Brown	+24 Vdc	+24 Vdc	+24 Vdc
Pin 2 - White	Not connected	Not connected	24 Vdc = Power 0 Vdc = Eco
Pin 3 - Blue	0 Vdc	0 Vdc	0 Vdc
Pin 4 - Black	Not connected	Not connected	Not connected

### M12A Male



## Fixings

F00G2, F00G4, F00R1, M6D16

# FR · 3000K

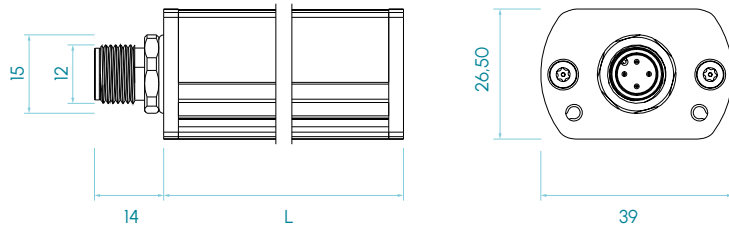


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## Measures

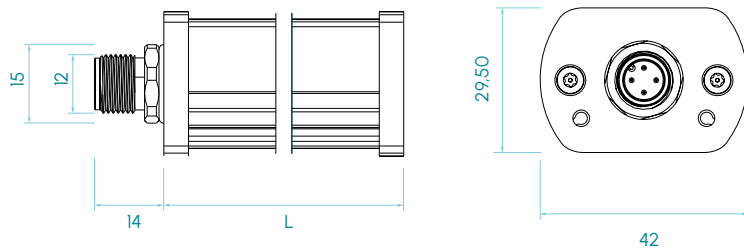
IP40

M12A axial version



IP65

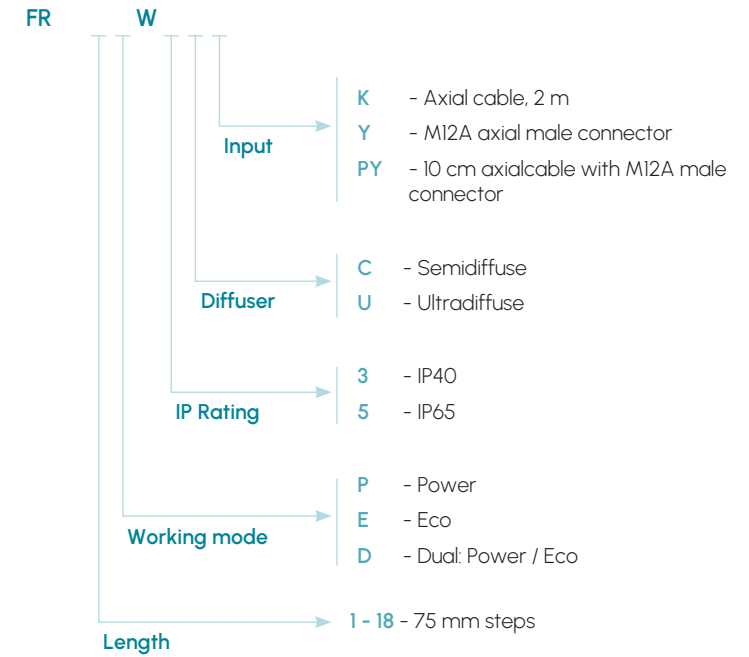
M12A axial version



Measures in mm

# FR · 3000K

## Selection guide




**lumher**


# FR Series · Warm white 3000K

**3000K**

WARM WHITE



SEMIDIFFUSE  
60°



ULTRADIFFUSE  
110°

PHOTOBIOLOGICAL  
RISK

RG1 - LOW

**60.000h**

LIFESPAN



FR

Table of characteristics

	Length L1 (mm)	Weight (g)	Illuminance Ev (lx) @ 1 m				Luminous flux <sup>(1)</sup> (lm)		Power consumed (W)	
			SEMIDIFFUSE		ULTRADIFFUSE		POWER	ECO	POWER	ECO
			POWER	ECO	POWER	ECO				
FR 01...	105	224	65	37	39	22	278	139	2,4	1,2
FR 02...	180	344	130	74	77	44	557	278	4,8	2,4
FR 03...	255	464	195	110	116	66	835	418	7,2	3,6
FR 04...	330	584	260	147	155	88	1.114	557	9,6	4,8
FR 05...	405	704	324	184	194	110	1.392	696	12,0	6,0
FR 06...	480	824	389	221	232	132	1.670	835	14,4	7,2
FR 07...	555	944	454	258	271	154	1.949	974	16,8	8,4
FR 08...	630	1.064	519	295	310	176	2.227	1.114	19,2	9,6
FR 09...	705	1.184	584	331	349	198	2.506	1.253	21,6	10,8
FR 10...	780	1.304	649	368	387	220	2.784	1.392	24,0	12,0
FR 11...	855	1.424	714	405	426	242	3.062	1.531	26,4	13,2
FR 12...	930	1.544	779	442	465	263	3.341	1.670	28,8	14,4
FR 13...	1.005	1.664	844	479	504	285	3.619	1.810	31,2	15,6
FR 14...	1.080	1.784	908	515	542	307	3.898	1.949	33,6	16,8
FR 15...	1.155	1.904	973	552	581	329	4.176	2.088	36,0	18,0
FR 16...	1.230	2.024	1.038	589	620	351	4.454	2.227	38,4	19,2
FR 17...	1.305	2.144	1.103	626	659	373	4.733	2.366	40,8	20,4
FR 18...	1.380	2.264	1.168	663	697	395	5.011	2.506	43,2	21,6

(1) The luminous flux (lm) is before the diffuser