

LUMINENT LED strips 900/1400 WHITE & RGB

PRELIMINARY TECHNICAL DATASHEET

- Good thermal dissipation and light efficiency.
- IP65 waterproof rating by packing with silicon tube.
- Convenient for usage with simple cut.
- 20,000h life time, CE, EAC (in preparation) and RoHS approval
- < 4 SDCM</p>

Technical Specifications

QUICK REFERENCE

Product	Order Code	Color	K	CRI	V	W/m [+/- 10%]	lm/m [+/- 10%]	lm/W	LED /m	Beam Angle °
LMNT-FX 900 37W/827/5M	4055462217110		2700							
LMNT-FX 900 37W/830/5M	4055462217134		3000							
LMNT-FX 900 37W/840/5M	4055462217158	white	4000	>80	24	8.5	880	104	60	120
LMNT-FX 900 37W/865/5M	4055462217172	writte	6500	>00	24	0.5	000	104	60	120
LMNTP-FX 900 40W/830/5M IP65	4055462217196		3000							
LMNTP-FX 900 40W/840/5M IP65	4055462217219		4000							
LMNT-FX 300 37W/RGB/5M*	4055462217370	RGB	RGB			8	300	38	70	
LMNTP-FX 300 47W/RGB/5M IP65*	4055462217394	RGB	RGB		24	10	300	30	70	120
LMNT-FX 500 80W/RGB/5M*	4055462217417	RGB	RGB		- '	17	480	28	85	0
	'									
LMNT-FX 1400 52W/827/5M	4055462217233		2700							
LMNT-FX 1400 52W/830/5M	4055462217257		3000			12	4000	445	70	400
LMNT-FX 1400 52W/840/5M	4055462217271		4000			12	1380	115	70	120
LMNT-FX 1400 52W/865/5M	4055462217295	white	6500	>80	24					
LMNTP-FX 1400 54W/830/5M IP65	4055462217318		3000							
LMNTP-FX 1400 54W/840/5M IP65	4055462217332		4000			12.5	1380	110	70	120
LMNTP-FX 1400 54W/865/5M IP65	4055462217356		6500							
LMNT-FX 1000 48W/830/5M	4055462217431	white	3000	- >80	24	9.6	1000	104	240	120
LMNT-FX 1000 48W/840/5M	4055462217455	WITHE	4000	700		3.0	1000	104	240	120
LMNTP-FX 800 55W/830/5M IP65 MLK	4055462220172		3000							
LMNTP-FX 800 55W/840/5M IP65 MLK	4055462220196	white	4000	>80	24	11	850	77	120	120

Due to the special conditions of manufacturing processes of LED, the typical data of technical parameters can only reflect statistical figures and do not necessarily correspond to the actual parameters of each single product which could differ from the typical data. Subject to change without notice. Errors and omissions excepted.

Version: 2018-05-30

TECHNICAL OPERATING DATA FOR COMPLETE REEL

Product	Order Code	IP rate	Dimension [mm]	Module Length [mm]	Lifetime	Weight	Cutting Unit
LMNT-FX 900 37W/827/5M	4055462217110					110	
LMNT-FX 900 37W/830/5M	4055462217134	IP20	W8.2 x	5003	00 0001	110	
LMNT-FX 900 37W/840/5M	4055462217158	IFZU	H1.2	5005	20.000h (L70B50@	110	100mm
LMNT-FX 900 37W/865/5M	4055462217172				Tc<65°C)	110	100111111
LMNTP-FX 900 40W/830/5M IP65	4055462217196	IP65	W13 x H7	5020	,	320	
LMNTP-FX 900 40W/840/5M IP65	4055462217219	11 05	WIJXIII	3020		320	
		1	14/0.0	5000	1	1	100
LMNT-FX 300 37W/RGB/5M*	4055462217370	IP20	W8.2 x H2.2	5003	20.000h	110	100mm
LMNTP-FX 300 47W/RGB/5M IP65*	4055462217394	IP65	W13 x H7	5020	(L70B50@	320	100mm
LMNT-FX 500 80W/RGB/5M*	4055462217417	IP20	W10.2 x H2.2	4970	Tc<65°C)	110	70mm
LMNT-FX 1400 52W/827/5M	4055462217233				20.000h	110	
LMNT-FX 1400 52W/830/5M	4055462217257	IP20	W8.2 x	5003	(L70B50@	110	100mm
LMNT-FX 1400 52W/840/5M	4055462217271	0	H1.2		Tc<65°C)	110	
LMNT-FX 1400 52W/865/5M	4055462217295				ŕ	110	
LMNTP-FX 1400 54W/830/5M IP65	4055462217318				20.000h	320	
LMNTP-FX 1400 54W/840/5M IP65	4055462217332	IP65	W13 x H7	5020	(L70B50@	320	100mm
LMNTP-FX 1400 54W/865/5M IP65	4055462217356				Tc<65°C)	320	
		ı		1	•	1	
LMNT-FX 1000 48W/830/5M	4055462217431	IP20	W8.2 x	5003	20.000h (L70B50@	110	25mm
LMNT-FX 1000 48W/840/5M	4055462217455	11 20	H2.2		Tc<65°C)	110	20111111
LMNTP-FX 800 55W/840/5M IP65 MLK	4055462220172	IP65	W12.8 x	5020	20.000h (L70B50@	680	50mm
LMNTP-FX 800 55W/830/5M IP65 MLK	4055462220196	11 03	H13	3020	Tc<65°C)	680	30111111

- The power consumption is measured at the initial stage to properly select the LED driver. The luminous flux is measured in steady state
- 300mm length / 2-pins / AWG20/ white / XLPE / UL4384 wire with tin end on both terminals, is standard configuration for white LED strip.
- 300mm length / 4-pins / AWG22/ white / silicon / UL3239 wire with tin end on both terminals is standard configuration for RGB LED strip.
- 1pc silicon glue and 2pcs end caps, are standard configuration of LED strip in IP65.

GENERAL

Working voltage	25 V max
Binning	<4 steps MacAdam ellipse
Lifetime	>20,000 h (L70B50@Tc<65°C)
Certifications	CE, EAC (in preparation)

OPERATING CONDITIONS

Ambient temperature range (Ta on free air)	-20°C - +45°C
Operating temperature at Tc-Point [°C]	-20°C - +65°C
Storage temperature [°C]	-30°C - +85°C
Voltage range [V dc]	23 – 25
Reverse Voltage [V dc]	25

- Exceeding maximum ratings for operating and storage temperature will reduce expected lifetime or destroy the LED Module.
- Exceeding maximum ratings for operating voltage will cause hazardous overload and will likely destroy the LED Module.
- The temperature of the LED module shall be measured at the Tc-point in a thermally constant status with a temperature sensor or a temperature sensitive label.

Safety information

- > Do not mechanically stress the LED module and all its components.
- > Assembly must not damage or destroy conducting paths on the circuit board.

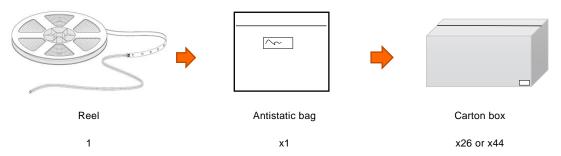
The LED module incorporates no protection against short circuits, overload or overheating. In order to drive LED-Modules safely, it is necessary to operate them with a LED driver protecting against short circuits, overload and overheating.

- Installation of LED modules (with LED Driver) needs to be done with regard to all applicable electrical and safety standards. Only qualified personnel are allowed to perform installations.
- Observe correct polarity! Incorrect polarity will lead to no light emission and may cause damage of the LED module.
- When mounting on metallic or otherwise conductive surfaces, there needs to be an electrical isolation at soldering points between module and the mounting surface.
- Pay attention to ESD when mounting the LED module.
- > Please ensure that the LED driver is of adequate power to operate the total load.
- ➤ It is the user's responsibility to provide suitable protection against corrosive agents such as moisture and condensation and other harmful elements.
- For applications involving exposure to humidity and dust the module must be protected by a fixture or housing with a suitable protection class.

Assembly Information

- The smallest electrical unit can be removed by cutting in specific location mark at the side.
- ➤ The mounting of the single LED module is facilitated by means of the double-sided adhesive on the back surface of the module. Provide a clean and dry mounting surface, free of oils or silicone coatings as well as dirt particle. The mounting substrate must have sufficient structural integrity. Pell off the adhesive tape.
- When installing in environments with large variations in temperature (e.g. outdoor applications) and operating length of more than 2 m, the use of adequate mounting surfaces is necessary.
- > Do not install it when power is on. Before powering on, make sure the wiring is correct
- > To protect your eyes, do not stare at the light for a long time while it's illuminated
- Only professional personnel can install, dismantle and repair

Packaging



Global order information

EUROPE/MEA	EAN10 (1 UNIT)	EAN40 (SHIPPING UNITS)	UNITS	
LMNT 900 37W/827	4055462217110	4055462217127	44	
LMNT 900 37W/830	4055462217134	4055462217141	44	
LMNT 900 37W/840	4055462217158	4055462217165	44	
LMNT 900 37W/865	4055462217172	4055462217189	44	
LMNTP 900 40W/830 IP65	4055462217196	4055462217202	26	
LMNTP 900 40W/840 IP65	4055462217219	4055462217226	26	
LMNT 300 37W/RGB*	4055462217370	4055462217387	44	
LMNT 300 47W/RGB IP65*	4055462217394	4055462217400	26	
LMNT 500 80W/RGB*	4055462217417	4055462217424	44	
LMNT 1400 52W/827	4055462217233	4055462217240	44	
LMNT 1400 52W/830	4055462217257	4055462217264	44	
LMNT 1400 52W/840	4055462217271	4055462217288	44	
LMNT 1400 52W/865	4055462217295	4055462217301	44	
LMNT 1400 54W/830 IP65	4055462217318	4055462217325	26	
LMNT 1400 54W/840 IP65	4055462217332	4055462217349	26	
LMNT 1400 54W/865 IP65	4055462217356	4055462217363	26	
LMNT 1000 48W/830	4055462217431	4055462217448	44	
LMNT 1000 48W/840	4055462217455	4055462217462	44	
LMNT 800 55W/840 IP 65 MLK	4055462220172	4055462220189	26	
LMNT 800 55W/830 IP 65 MLK	4055462220196	4055462220202	26	

Note: Typical performance data are subject to change without any further notice, particularly as LED technology evolves









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