

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

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	white	2700	>80	24	8.1	850	104	60	120			
LMNT-FX 900 37W/830/5M	4055462217134		3000										
LMNT-FX 900 37W/840/5M	4055462217158		4000										
LMNT-FX 900 37W/865/5M	4055462217172		6500										
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	24	7.6	290	38	70	120				
LMNTP-FX 300 47W/RGB/5M IP65*	4055462217394	RGB	RGB							9.6	290	30	70
LMNT-FX 500 80W/RGB/5M*	4055462217417	RGB	RGB							16	450	28	85
LMNT-FX 1400 52W/827/5M	4055462217233	white	2700	>80	24	11.7	1350	115	70	120			
LMNT-FX 1400 52W/830/5M	4055462217257		3000										
LMNT-FX 1400 52W/840/5M	4055462217271		4000										
LMNT-FX 1400 52W/865/5M	4055462217295		6500										
LMNTP-FX 1400 54W/830/5M IP65	4055462217318		3000			12.2	1350	110	70	120			
LMNTP-FX 1400 54W/840/5M IP65	4055462217332		4000										
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		4000										
LMNTP-FX 800 55W/830/5M IP65 MLK	4055462220172	white	3000	>80	24	11	850	77	120	120			
LMNTP-FX 800 55W/840/5M IP65 MLK	4055462220196		4000										

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.

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	IP20	W8.2 x H1.2	5003	20.000h (L70B50@ Tc<65°C)	110	100mm
LMNT-FX 900 37W/830/5M	4055462217134					110	
LMNT-FX 900 37W/840/5M	4055462217158					110	
LMNT-FX 900 37W/865/5M	4055462217172					110	
LMNTP-FX 900 40W/830/5M IP65	4055462217196	IP65	W13 x H7	5020	320		
LMNTP-FX 900 40W/840/5M IP65	4055462217219				320		
LMNT-FX 300 37W/RGB/5M*	4055462217370	IP20	W8.2 x H2.2	5003	20.000h (L70B50@ Tc<65°C)	110	100mm
LMNTP-FX 300 47W/RGB/5M IP65*	4055462217394	IP65	W13 x H7	5020		320	100mm
LMNT-FX 500 80W/RGB/5M*	4055462217417	IP20	W10.2 x H2.2	4970		110	70mm
LMNT-FX 1400 52W/827/5M	4055462217233	IP20	W8.2 x H1.2	5003	20.000h (L70B50@ Tc<65°C)	110	100mm
LMNT-FX 1400 52W/830/5M	4055462217257					110	
LMNT-FX 1400 52W/840/5M	4055462217271					110	
LMNT-FX 1400 52W/865/5M	4055462217295					110	
LMNTP-FX 1400 54W/830/5M IP65	4055462217318	IP65	W13 x H7	5020	20.000h (L70B50@ Tc<65°C)	320	
LMNTP-FX 1400 54W/840/5M IP65	4055462217332					320	
LMNTP-FX 1400 54W/865/5M IP65	4055462217356					320	
LMNT-FX 1000 48W/830/5M	4055462217431	IP20	W8.2 x H2.2	5003	20.000h (L70B50@ Tc<65°C)	110	25mm
LMNT-FX 1000 48W/840/5M	4055462217455					110	
LMNTP-FX 800 55W/840/5M IP65 MLK	4055462220172	IP65	W12.8 x H13	5020	20.000h (L70B50@ Tc<65°C)	680	50mm
LMNTP-FX 800 55W/830/5M IP65 MLK	4055462220196					680	

- 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.

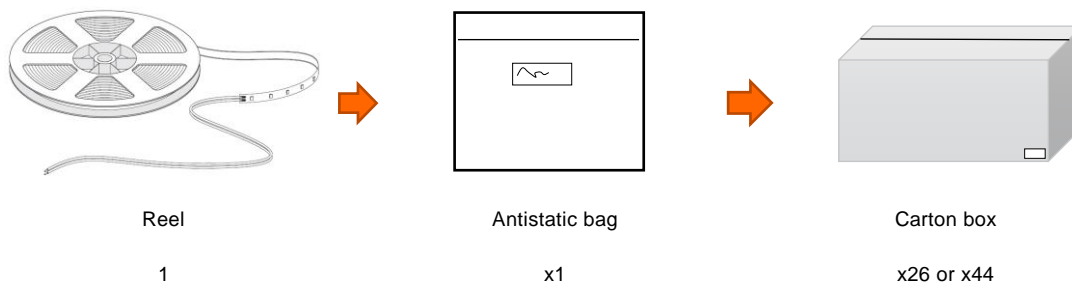
In order to drive LED-Modules safely, it is necessary to operate them with a LED driver protecting against short circuits, overload and overheating.

- 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. Peel 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
LMNT 900 40W/830 IP65	4055462217196	4055462217202	26
LMNT 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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