



ULTRA MINI WHITE

LS-UMIN-XXX-L4-50B

LED MODULES

ULTRA MINI White modules are a popular choice for illuminating sleek, modern miniature channel letters. ULTRA MINI White modules feature a Static White CCT range of 2700K to 8000K and output of 20-24 lm/module, enabling a wide variety of applications for nuanced indoor and outdoor signage and accent lighting.

Applications:

- Outdoor miniature channel letters
- Outdoor acrylic block letters
- Ultra thin small channel letters
- Accent lighting



ORDERING GUIDE

Part Number	Color Temp.	Module Spacing (in./mm)	Number of Modules		Nominal Light Output (lm)*		
			Per Foot	Per Meter	Per Module	Per Foot	Per Meter
LS-UMIN-80K-L4-50B**	8000K	2/50	6.1	20	24	146	450
LS-UMIN-65K-L4-50B	6500K	2/50	6.1	20	22	134	440
LS-UMIN-57K-L4-50B**	5700K	2/50	6.1	20	22	134	440
LS-UMIN-50K-L4-50B	5000K	2/50	6.1	20	22	134	440
LS-UMIN-40K-L4-50B**	4000K	2/50	6.1	20	22	134	440
LS-UMIN-30K-L4-50B**	3000K	2/50	6.1	20	22	134	440
LS-UMIN-27K-L4-50B	2700K	2/50	6.1	20	20	122	400

** Limited stock

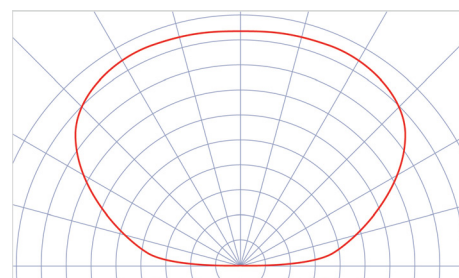
* ± 10%

PRODUCT RATINGS

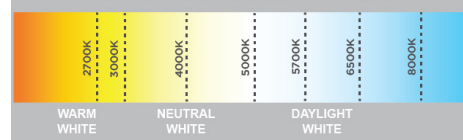
Luminous Efficacy	108 lm/W
Wattage per Module	0.2 W Nominal 0.22 W Maximum
Input Voltage	12 V DC
Input Current	0.017 A/ module
Power Supply Loading	276 modules per 60 W
Ingress Protection	IP68
Operating Temperature	-40 — 140 °F (-40 — 60 °C)
L70 Lifetime @ 60° C	50,000 hours
Warranty	5-year limited warranty

LUMINOUS INTENSITY DISTRIBUTION

L4 Beam Pattern



WHITE COLOR TEMPERATURE SCALE



MODULE DIMENSIONS

Part Number	Length (in./mm)	Width (in./mm)	Height (in./mm)
LS-UMIN-xxx-L4-50B	0.7/17	0.31/8	0.39/9.8



POWER SUPPLY LOADING

Module Type			LS-UMIN-xxx-L4-50B		
	Power Supply (wired in Parallel Strings)	Total. # of Modules	Max # of Modules Per String	Total # of Feet	Total # of Meters
UL CLASS 2	12 W	55	55	9	2.7
	15 W	69	69	15.7	4.8
	36 W	161	161	26.4	8
	60W	276	172	45.3	13.8
	180W***	828	172	135.8	41.4
UL CLASS 1	100W	450	172	73.8	22.5
	150W	675	172	110.7	33.7
	180W	810	172	132.9	40.5
	220W	990	172	162.4	49.5

The number of modules in each of the parallel strings should not exceed the specified maximum.
*** 3 - 60 watt channels

LAYOUT GUIDE*

LED MODULE TO POWER SUPPLY WIRE SIZE

Channel Depth (in mm)	Single Row		Single Row		Multiple Rows	
	Min. Stroke	Module Spacing	Max. Stroke	Module Spacing	Row Spacing	Module Spacing
1 25	0.31 8	1.18 30	0.79 20	1.18 30	0.79 20	1.18 30
1.6 40	0.31 8	2 50	1.6 40	2 50	1.6 40	2 50
2 50	0.31 8	2 50	3.25 82	2 50	2.50 63	2 50

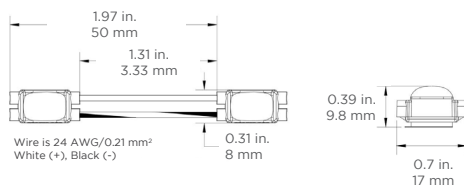
* Module spacing is defined to achieve minimum 600 lux at sign face (7328 white)

Wire Size		Maximum Distance*	
Gauge AWG	Metric (mm ²)	Feet	Meters
20	0.52	11	3.4
18	0.82	18	5.5
16	1.31	29	8.8
14	2.08	45	12.7
12	3.31	71	21.6

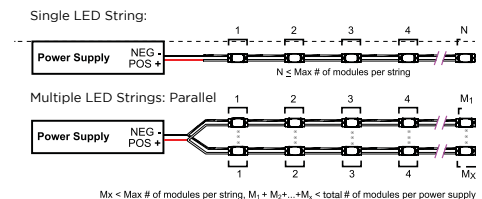
SHIPPING INFORMATION

Module Type	Specs	Packaging Quantity			Carton Weight	Box Dimensions			Carton Dimensions		
		Per Bag	Per Box	Per Carton		W	D	H	W	D	H
LS-UMIN-xxx-L4-50A	Modules	150	1200	6000	25 lb 11.4 kg	18.1	8.3	3.3	18.9	18.9	9.3
	Feet	24.6	196.9	984		460	210	85	480	480	235
	Meters	7.5	60	300							mm

DIMENSION DRAWING



WIRING DIAGRAM



1. UL ONLY - These products are only suitable for connection to a UL rated Class 2 power source rated 12 Volt or less.
2. UL ONLY - These products are intended for use only when connected to a power source that complies with UL rated Class 2 voltage and energy limited circuit.
3. UL ONLY - When these units are connected to a UL rated Class 2 circuit, they are not to draw a total wattage of greater than the secondary or output rating of the UL rated Class 2 power supply.
4. These products may be secured in place in the end product by any means available.
5. These products are suitable for use in dry, damp, and wet locations. Not suitable for submersed applications.

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