



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



**UL US** **CE** **IP68** **LM-79** **LM-80**



**ORDERING GUIDE**

Part Number	Color Temp.	Module Spacing (mm)	Number of Modules		Nominal Light Output (lm)*		
			Per Foot	Per Meter	Per Module	Per Foot	Per Meter
LS-UMIN-80K-L4-50B**	8000K	50	6.10	20	24	146	450
LS-UMIN-65K-L4-50B	6500K	50	6.10	20	22	134	440
LS-UMIN-57K-L4-50B**	5700K	50	6.10	20	22	134	440
LS-UMIN-50K-L4-50B	5000K	50	6.10	20	22	134	440
LS-UMIN-40K-L4-50B**	4000K	50	6.10	20	22	134	440
LS-UMIN-30K-L4-50B**	3000K	50	6.10	20	22	134	440
LS-UMIN-27K-L4-50B	2700K	50	6.10	20	20	122	400

\*\* Limited stock

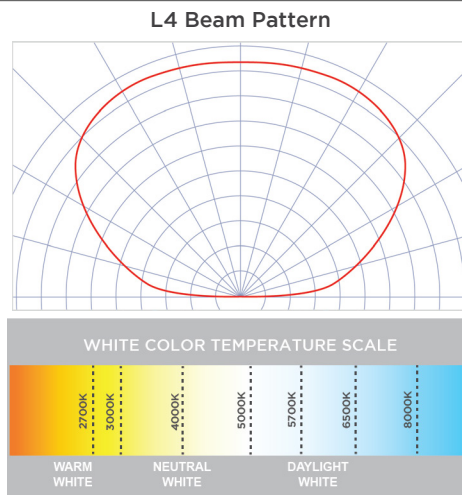
\* ± 10%



**PRODUCT RATINGS**

Luminous Efficacy	108 lm/W
Wattage per Module	0.20 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**



**MODULE DIMENSIONS**

Part Number	Length (in/mm)	Width (in/mm)	Height (in/mm)
LS-UMIN-xxx-L4-50B	0.70/17.0	0.31/8.0	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	8.0
	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\***

Channel Depth (in   mm)	Single Row		Single Row		Multiple Rows	
	Min. Stroke	Module Spacing	Max. Stroke	Module Spacing	Row Spacing	Module Spacing
1.0   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	2.00   50	1.60   40	2.00   50	1.60   40	2.00   50
2.0   50	0.31   8	2.00   50	3.25   82	2.00   50	2.50   63	2.00   50

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

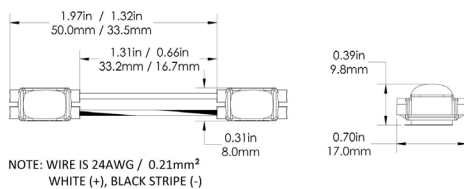
**LED MODULE TO POWER SUPPLY WIRE SIZE**

Wire Size	Maximum Distance*		
	Guage AWG	Metric (mm <sup>2</sup> )	Feet
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

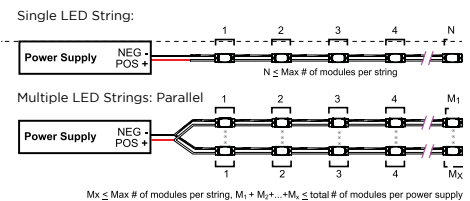
**SHIPPING INFORMATION**

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	inch
	Feet	24.6 (16.5)	196.9 (132)	984 (659)								
	Meters	7.5 (5)	60 (40)	300 (200)								

**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.

**GLOBAL HQ**

320 Murray Hill Pkwy  
East Rutherford, NJ 07073  
U.S.  
T: (+1) 212 629 6830  
E: Sales-US@GENLEDBrands.com

**EUROPEAN HQ**

Hogeweyselaan 119  
1382 JK Weesp  
Netherlands  
T: (+31) 346 235 000  
E: SalesEurope@GENLEDBrands.com

**MEINA HQ**

PO Box 371378, #823, Building 4EA  
Dubai Airport Free Zone  
Dubai, UAE  
T: (+971) 4 701 7901  
E: SalesMEINA@genlebrands.com

**ASIA-PACIFIC HQ**

Room 402, Building D  
Shenshi Tongchuang Science and Technology Park  
No. 16 Hongyin Road  
Xingqiang Community, Xinhui Street  
Guangming District, Shenzhen, China 518107  
Sales: (+86) 139 1836 3905  
Office: (+86) 755 8529 0710  
E: Sales-Pacific@GENLEDBrands.com