

Global Color Consistency



Advanced Optics



Waterproof Encapsulation



CONSTANT CURRENT



UV RESISTANT



**50,000 HRS
L70 LIFETIME**

Ordering Information

Part number	White Color Temperature	Module Spacing (mm)	Number of Modules per Meter	Nominal Light Output (lm)*	
				per Module	per Meter
LS-UMINE75K-L4-50A	7500K	50	20.0	21	420
LS-UMINE65K-L4-50A	6500K	50	20.0	21	420
LS-UMINE57K-L4-50A	5700K	50	20.0	21	420
LS-UMINE50K-L4-50A	5000K	50	20.0	21	420
LS-UMINE45K-L4-50A	4500K	50	20.0	18	360
LS-UMINE41K-L4-50A	4100K	50	20.0	18	360
LS-UMINE30K-L4-50A	3000K	50	20.0	18	360
LS-UMINE27K-L4-50A	2700K	50	20.0	18	360

* ±10%

Part number	White Color Temperature	Module Spacing (mm)	Number of Modules per Meter	Nominal Light Output (lm)*	
				per Module	per Meter
LS-UMINE75K-L4-35A	7500K	35	28.6	21	600
LS-UMINE65K-L4-35A	6500K	35	28.6	21	600
LS-UMINE57K-L4-35A	5700K	35	28.6	21	600
LS-UMINE50K-L4-35A	5000K	35	28.6	21	600
LS-UMINE45K-L4-35A	4500K	35	28.6	18	514
LS-UMINE41K-L4-35A	4100K	35	28.6	18	514
LS-UMINE30K-L4-35A	3000K	35	28.6	18	514
LS-UMINE27K-L4-35A	2700K	35	28.6	18	514

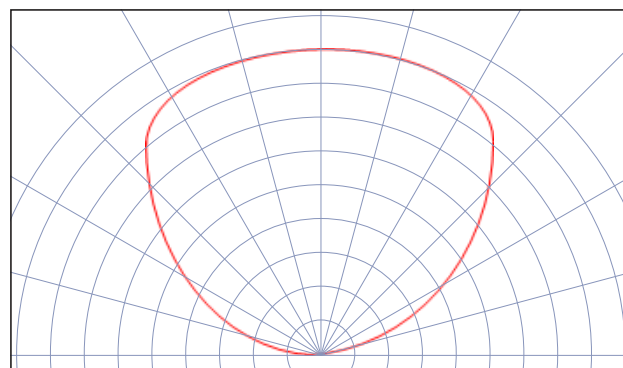
* ±10%

Applications

- Outdoor Miniature Channel Letters
- Outdoor Acrylic Block Letters
- Ultra thin small channel letters

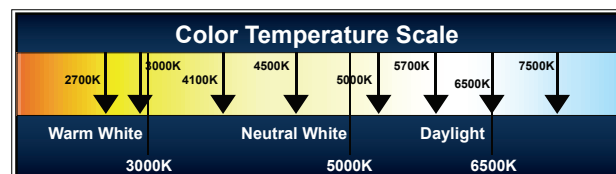
Luminous Intensity Distribution

L4 Beam Pattern



Product Ratings

Luminous Efficacy	88 lm/W
Max. Wattage per Module	0.25 W (0.24 W Nom.)
Input Current	0.020 A/module
Ingress Protection	IP68
Operating Temperature	-40°C to +60°C (-40°F to +140°F)
L70 Lifetime	50,000 hours
Warranty	5 Year limited



IP68
standard

LM-79

LM-80

Part Number Guide

LED Sign	Module type: ULTRA MINI	Region	Color Temperature	Beam pattern	Spacing in mm	Version Control
LS	-UMIN	E	65K	-L4	-50	A
LS	-UMIN	E	65K	-L4	-35	A

Power Supply Load Chart

LED Modules	LS-UMINExxx-L4-xxA		
Power Supply (Wired in Parallel Strings)	Max. # of Modules per string	Total # of Modules	Total # of Meters
15W	58	58	2.9
35W	134	134	6.7
60W	150	230	12.0

Power Supply (Wired in Parallel Strings)	Max. # of Modules per string	Total # of Modules	Total # of Meters
100W	150	383	19.2
150W	150	575	28.8
180W	150	690	34.5

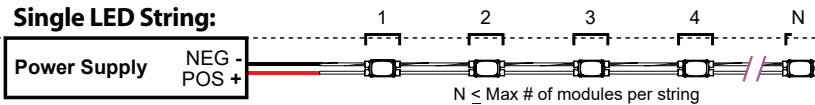
Population Density Guide

Channel depth	Single Row (mm)		Single Row (mm)		Multiple Rows (mm)	
(mm)	Min. Stroke	Module Spacing	Max. Stroke	Module Spacing	Row Spacing	Module Spacing
25	8	30	20	30	20	30
40	8	50	40	50	40	50
50	8	50	82	50	63	50

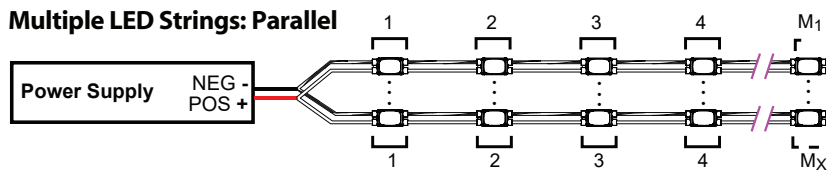
Note: Face material as 7328 3/16" (4.76mm) thick, or WH73 3mm thick

Wiring Diagram

Single LED String:

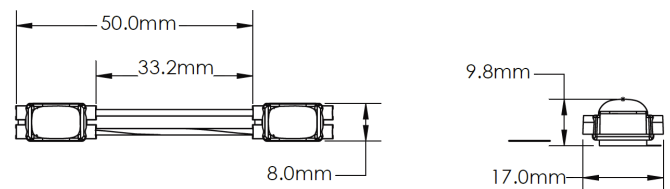


Multiple LED Strings: Parallel



$M_x \leq \text{Max \# of modules per string}$, $M_1 + M_2 + \dots + M_x \leq \text{total \# of modules per power supply}$

LED Module Dimensions



NOTE: WIRE IS 24AWG / 0.21mm²

Shipping Information

Module	Quantity per Bag (1 String)	Quantity per Box	Quantity Per Case	Case Weight	Box Dimensions			Case Dimensions		
					W	D	H	W	D	H
LS-UMINExxx-L4-50A	150 Modules	1200 Modules	6000 Modules	11.4 (kg)	460mm	210mm	85mm	480mm	480mm	235mm
LS-UMINExxx-L4-35A	7.5 (m)	60.0 (m)	300.0 (m)							