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PRODUCT CATALOG

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## ABOUT GENLED AGILIGHT®

### OUR COST-EFFECTIVE LED SYSTEM SOLUTIONS AMOUNT TO SAVINGS FOR SIGN MAKERS AND END-USERS

**GENLED** AgiLight® is a global leader in the LED signage lighting industry and the preferred partner of sign companies and global brands. We bring value to our customers by enhancing and maintaining their brand image through the benefits of our LED solutions. Our broad product portfolio offers the desired lighting solutions to all sign applications. Our cost-effective LED system solutions amount to savings for sign makers and end-users, and the quality and reliability of our products ensure a low maintenance cost throughout the signs' lifetime.

### INNOVATIVE TECHNOLOGY

**GENLED** AgiLight®'s innovations provide an unparalleled value proposition to signage illumination. Our cutting-edge VersaLenz®, ONEwhite®, and Capzul® technologies are paramount innovations that propelled us into an industry leading position. We bring technically advanced and easy to use products to the market. Our LED systems significantly reduce the number of modules and power supplies per sign, providing energy and labor cost savings for sign makers and end-users alike.

### CUSTOMER SERVICE

Our team of experts in LED signage lighting work directly with our customers to achieve their desired sign illumination with the lowest total cost of ownership. Responsiveness is our strength. From understanding the needs with specific configurations and face materials of the signs, to selecting the most suitable LED modules to use, **GENLED** AgiLight® works step-by-step with our customers to optimize the lighting solution for their brand images. We have an international team of experts around the world, and a top-flight distribution network ready to respond.



### PRODUCT QUALITY

We are committed to producing the highest quality LED products in the industry. As a market leader, we maintain an in-house engineering staff which sets us apart from our competitors. We design a high quality product and stand by the reliability of our products because we control each step of the production from start to finish. The products are rigorously tested and qualified under outdoor weather conditions. **GENLED** AgiLight® was also one of the first LED signage manufacturers to adopt the Solid State Lighting Quality and Reliability Technical Standards, such as LM79 and LM80, using accelerated testing protocols on all LED modules for 6000 hours to ensure their long term reliability in outdoor environments. Our products are certified with UL, CSA, CE, ENEC, RCM, CCC, and are also certified RoHS compliant.

Photo (Right): SignRayz® ULTRA MINI White LS-UMIN-65K-L4-50A



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SignRayz® ULTRA 650  
LS-U650-65K-B200-A

## APPLICATIONS

Illuminate your brand's signage with **GENLED AgiLight®**'s innovative LED lighting solutions. From deep light boxes to narrow channel letters to everything in between, our team of LED experts is ready to assist you with your signage illumination needs.

**CHANNEL LETTERS** — From narrow to wide, to ultra-shallow to deep, we offer a wide range of solutions to meet your channel letter illumination needs. Our SignRayz® LED modules are IP68 rated, including the ULTRA MINI—the smallest waterproof LED modules in the market. With a variety of color temperatures and color options to evenly and radiantly illuminate your signs, and our LED lighting experts guarantee to make your brand pop, rain or shine.

**HALO LIGHTING** — Add brilliance and contrast to your signage through halo illumination. Contact **GENLED AgiLight®**'s team of LED lighting experts to help you create the lighting and ambiance you desire for your brand.

**CABINET SIGNS** — Make your business stand out from the crowd with our LED products, that provide better cost effectiveness and increase product life for your cabinet signs. Linear fluorescent lamps in cabinet signs are a thing of the past, **GENLED AgiLight®**'s single and double-sided RetroRayz® LED Light Bars offer the best illumination from all angles. With our LED Light Bars' quick and easy retrofit installation, you can switch to LED technology today.

**LIGHT BOXES** — Our LED modules evenly illuminate any light box with your desired brightness regardless of size or depth. From the shallowest sign depths, starting at 30 mm, to deeper signs, our new SignRayz ULTRA® Series offers the best high-performance cost-effective solutions for illuminating your light boxes and other brand signage.

**ACCENT LIGHTING** — Accentuate your brand by highlighting its unique signage or architectural features. **GENLED AgiLight®**'s accent LED products help illuminate and emphasize the uniqueness of your business and your products, making them hard to miss.

# SIGNRAYZ® ULTRA SERIES LED MODULES

THE NEW ALL-IN-ONE SERIES FOR BACK LIT & SHALLOW TO DEEP APPLICATIONS



12V DC



9 YEAR WARRANTY



ULTRA 600 SERIES — With its slim and compact shape, the ULTRA 600 Series is designed for brighter and deeper signs starting at 3". It features an innovative optic that expands its coverage across the sign, therefore requiring fewer modules per sign than previous products.

ULTRA 400 SERIES — This new comprehensive option for backlit applications is available in three lumen outputs and for super low-profiles at 1.2" (30 mm) to 4" (125 mm) depth range. The ULTRA 400 offers options for shallow to medium depth box signs, and narrow to wide channel letters.

Its new batwing optic uniformly distributes light, increasing the coverage area with fewer LED modules while lowering the cost per sign.

SignRayz® ULTRA 670, Backlit  
Perforated Face  
Unlit Daylight Blue  
LS-U670-65K-B250-A  
Height 15" | 381 mm  
Depth 5.25 | 134 mm  
Stroke 3 - 5" | 75 - 125 mm

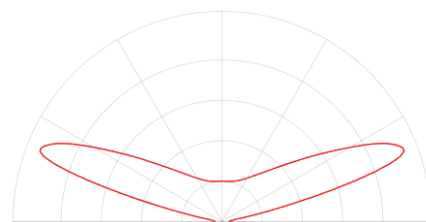




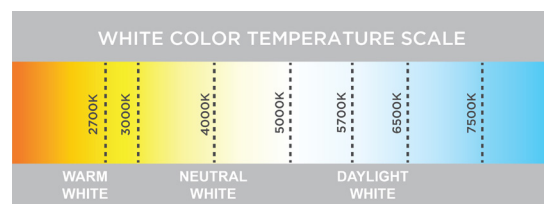
## ► SIGNRAYZ® ULTRA 600

### APPLICATIONS:

- Channel letters
- Box signs
- Cove lighting
- Applications starting at 3" (75 mm) depth or higher



600 Series Batwing Pattern



### ULTRA 600 SPECS

Module	Dimensions (L x W x H)		Module Spacing		Number of Modules	
			8"	200 mm	1.5/ft	5/meter
ULTRA 650	1.89" x 0.47" x 0.35"	48 x 12 x 8.8 mm	8"	200 mm	1.5/ft	5/meter
ULTRA 670	1.89" x 0.47" x 0.35"	48 x 12 x 8.8 mm	8" & 10"	200 & 250 mm	1.2/ft, 1.5/ft	4/meter, 5/meter

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## ULTRA 650 ORDERING GUIDE

### ULTRA 650

Part Number	Color Temp	Lumens/Module	Lumens/Foot	Lumens/Meter
Wattage: 0.78 W		Current: .065 A		70 Modules/60W PS Load
Part Number	Color Temp	Lumens/Module	Lumens/Foot	Lumens/Meter
LS-U650-71K-B200-A	7100K	100	150	500
LS-U650-65K-B200-A	6500K	100	150	500
LS-U650-57K-B200-A	5700K	100	150	500
LS-U650-50K-B200-A	5000K	100	150	500
LS-U650-45K-B200-A	4500K	92	138	460
LS-U650-40K-B200-A	4000K	92	138	460
LS-U650-30K-B200-A	3000K	85	128	425
LS-U650-27K-B200-A	2700K	85	128	425

## ULTRA 650 POPULATION DENSITY GUIDE\* (inch, mm)

Channel Depth	Single Stroke	Module Spacing	Multiple Row Spacing	Module Spacing
ULTRA 650				
3   75	10   250	6.5   165	6.5   165	6.5   165
4   100	13   330	7.87   200	9   225	7.87   200
5   125	17   430	7.87   200	13   330	7.87   200
6   150	17   430	7.87   200	16   405	7.87   200
7   175	15   380	7.87   200	15   380	7.87   200

\* Module spacing is defined to achieve a minimum of 600 lux for a single row or 800 lux for multiple rows at sign face (7328 white acrylic). Face material is 3/16" (4.50 mm) thick. Please refer to the spec sheet for module spacing.





## ULTRA 670 ORDERING GUIDE

ULTRA 670				
Wattage: 1.24 W	Current: .103 A		44 Modules/60W PS Load	
Part Number	Color Temp	Lumens/Module	Lumens/Foot	Lumens/Meter
LS-U670-71K-B250-A	7100K	150	180	600
LS-U670-65K-B250-A	6500K	150	180	600
LS-U670-57K-B250-A	5700K	150	180	600
LS-U670-50K-B250-A	5000K	150	180	600
LS-U670-45K-B250-A	4500K	138	166	552
LS-U670-40K-B250-A	4000K	138	166	552
LS-U670-30K-B250-A	3000K	127	155	508
LS-U670-27K-B250-A	2700K	127	155	508
LS-U670-71K-B200-A	7100K	150	225	750
LS-U670-65K-B200-A	6500K	150	225	750
LS-U670-57K-B200-A	5700K	150	225	750
LS-U670-50K-B200-A	5000K	150	225	750
LS-U670-45K-B200-A	4500K	138	207	690
LS-U670-40K-B200-A	4000K	138	207	690
LS-U670-30K-B200-A	3000K	127	191	635
LS-U670-27K-B200-A	2700K	127	191	635

## ULTRA 670 POPULATION DENSITY GUIDE\* (inch, mm)

Channel Depth	Single Stroke	Module Spacing	Multiple Row Spacing	Module Spacing
<b>ULTRA 670</b>				
4   100	13   330	9   225	9   225	9   225
5   125	17   430	9.8   250	13   330	9.8   250
6   150	20   505	9.8   250	16   405	9.8   250
7   175	19   480	9.8   250	18   455	9.8   250
8   200	17   430	9.8   250	17   430	9.8   250

\* Module spacing is defined to achieve a minimum of 600 lux for a single row or 800 lux for multiple rows at sign face (7328 white acrylic). Face material is 3/16" (4.50 mm) thick. Please refer to the spec sheet for module spacing.

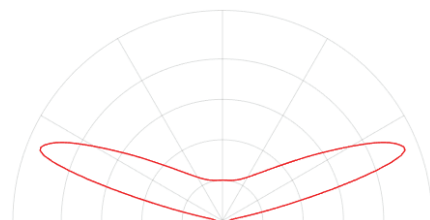




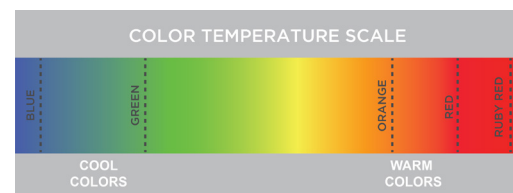
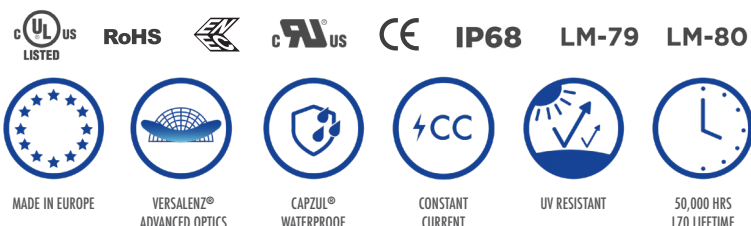
## ► SIGNRAYZ® ULTRA 650 COLOR

### APPLICATIONS:

- Channel letters
- Box signs
- Cove lighting
- Applications starting at 3" (75 mm) depth or higher



600 Series Batwing Pattern



### ULTRA 650 COLOR ORDERING GUIDE

ULTRA 650 COLOR				
Wattage: 0.78 W	Current: .065 A		70 Modules/60W PS Load	
Part Number	Wavelength	Lumens/Module	Lumens/Foot	Lumens/Meter
LS-U650-RED-B150-A	625 nm	25	50.0	167.5
LS-U650-BLU-B150-A	467 nm	14.5	29.0	97.15
LS-U650-GRN-B150-A	525 nm	55	110.0	368.5
LS-U650-RRD-B150-A	633 nm	20	40.0	134
LS-U650-ORG-B150-A	606 nm	30	60.0	201
LS-U650-RED-B200-A	625 nm	25	37.5	125
LS-U650-BLU-B200-A	467 nm	14.5	21.75	72.5
LS-U650-GRN-B200-A	525 nm	55	82.5	275
LS-U650-RRD-B200-A	633 nm	20	30	100
LS-U650-ORG-B200-A	606 nm	30	45	150

### ULTRA 650 COLOR SPECS

Module	Dimensions (L x W x H)		Module Spacing		Number of Modules	
	ULTRA 650 COLOR	1.89" x 0.47" x 0.35"	48 x 12 x 8.8 mm	6" 8"	150 mm 200 mm	2/ft 1.5/ft

### ULTRA 650 COLOR POPULATION DENSITY GUIDE\* (inch, mm)

LS-U650-xxx-B150-A				
Single Row Channel Depth	Red Max. Stroke*	Blue Max. Stroke**	Green Max. Stroke**	PR/OR Max. Stroke
3   75	7.5   190	6   150	8   200	***
4   100	8   200	8   200	10   250	***
5   125	9   230	10   250	12   300	8   200
6   150	11   280	12   300	12   300	9   225
7   180	10   250	12   300	11   275	10   250
Multiple Row Channel Depth	Red Max. Stroke*	Blue Max. Stroke**	Green Max. Stroke**	PR/OR Max. Stroke
3   75	6   150	5   125	6   150	***
4   100	7   170	8   200	8   200	***
5   125	8   200	10   250	10   250	8   200
6   150	12   300	12   300	12   300	9   225
7   180	11   275	14   350	12   300	10   250
LS-U650-xxx-B200-A				
Single Row Channel Depth	Red Max. Stroke*	Blue Max. Stroke**	Green Max. Stroke**	PR/OR Max. Stroke
3   75	6   150	6.5   165	8   200	6   150
4   100	8   200	12   300	12   300	10   250
5   125	12   300	14   350	14   350	12   300
6   150	11   275	16   400	16   400	14   350
7   180	10   250	18   450	18   450	18   450
Multiple Row Channel Depth	Red Max. Stroke*	Blue Max. Stroke**	Green Max. Stroke**	PR/OR Max. Stroke
3   75	8   200	5   125	6   150	6 / 150
4   100	10   250	8   200	10   250	10 / 250
5   125	12   300	10   250	12   300	12 / 300
6   150	14   350	12   300	15   375	14 / 350
7   180	16   400	14   350	16   400	16 / 400

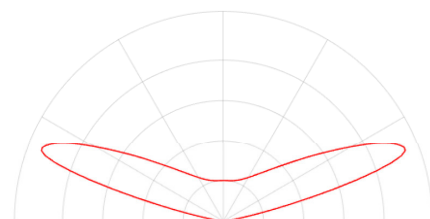
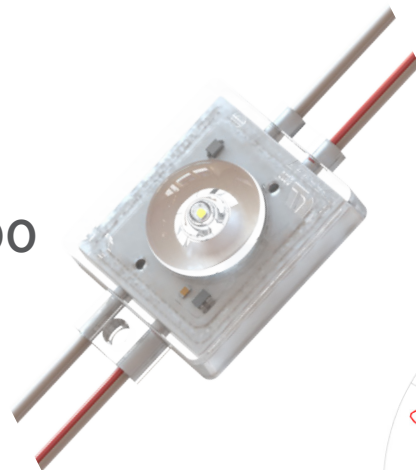
\* 2793 Plex \*\* 7328 Plex \*\*\*Contact sales associate  
 Note 1. Other face materials may vary the module and row spacing to achieve the same face light, uniformity and brightness.



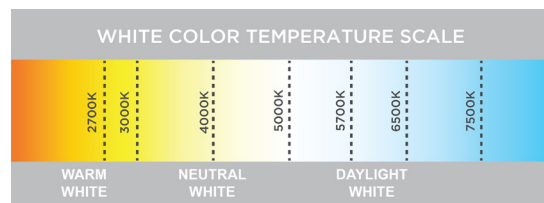
## ▶ SIGNRAYZ® ULTRA 400

### APPLICATIONS:

- Wide stroke channel letters
- Shallow to medium box signs
- Small to medium cloud signs
- Applications starting at 1.2" (30 mm) depth or higher



400 Series Batwing Pattern



### POPULATION DENSITY GUIDE\* (inch | mm)

Channel Depth	Single Stroke	Module Spacing	Multiple Row Spacing	Module Spacing
<b>ULTRA 430</b>				
1.2   30	3   75	2.5   65	2   50	2   50
1.6   40	5   125	4   100	3.5   90	3.5   90
2   50	6   150	4   100	4.5   115	4   100
<b>ULTRA 450</b>				
2   50	6   150	5   125	4.5   115	4.25   110
3   75	9   225	4.25   110	8   200	4.25   110
<b>ULTRA 470</b>				
3   75	9   225	4.25   110	8   200	4.25   110
4   100	13   330	6   150	11.5   290	6   150

\* Module spacing is defined to achieve a minimum of 600 lux for a single row or 800 lux for multiple rows at sign face (7328 white acrylic). Face material is 3/16" (4.50 mm) thick. Please refer to the spec sheet for module spacing.

## ULTRA 400 SPECS

Module	Dimensions (L x W x H)		Module Spacing		Number of Modules	
<b>ULTRA 430</b>	1.52" x 1.03" x 0.42"	38.5 x 26.2 x 10.6 mm	4" & 6"	100 & 150 mm	3 per foot	10 per meter
<b>ULTRA 450 &amp; 470</b>	1.52" x 1.03" x 0.42"	38.5 x 26.2 x 10.6 mm	6"	150 mm	2 per foot	6.6 per meter

## ULTRA 400 SERIES ORDERING GUIDE

ULTRA 430				
Part Number	Color Temp	Lumens/Module	Lumens/Foot	Lumens/Meter
Wattage: 0.3 W      Current: .025A      184 Modules/60W PS Load				
LS-U430-75K-B100-A	7500K	33	99	330
LS-U430-65K-B100-A	6500K	34	102	340
LS-U430-57K-B100-A	5700K	32	96	320
LS-U430-50K-B100-A	5000K	32	96	320
LS-U430-40K-B100-A	4000K	32	96	320
LS-U430-30K-B100-A	3000K	30	90	300
LS-U430-27K-B100-A	2700K	30	90	300
LS-U430-75K-B150-A	7500K	33	66	221
LS-U430-65K-B150-A	6500K	34	68	228
LS-U430-57K-B150-A	5700K	32	64	214
LS-U430-50K-B150-A	5000K	32	64	214
LS-U430-40K-B150-A	4000K	32	64	214
LS-U430-30K-B150-A	3000K	30	60	201
LS-U430-27K-B150-A	2700K	30	60	201

ULTRA 450				
Part Number	Color Temp	Nominal Light Output (lumens)		
		Per Module	Per Foot	Per Meter
Wattage: 0.48 W      Current: .04 A      115 Modules/60W PS				
LS-U450-75K-B150-A	7500K	48	96	317
LS-U450-65K-B150-A	6500K	50	100	330
LS-U450-57K-B150-A	5700K	47	94	310
LS-U450-50K-B150-A	5000K	47	94	310
LS-U450-40K-B150-A	4000K	47	94	310
LS-U450-30K-B150-A	3000K	44	88	290
LS-U450-27K-B150-A	2700K	44	88	290

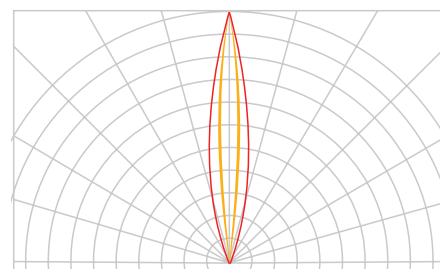
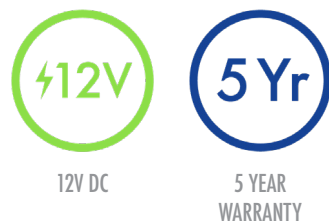
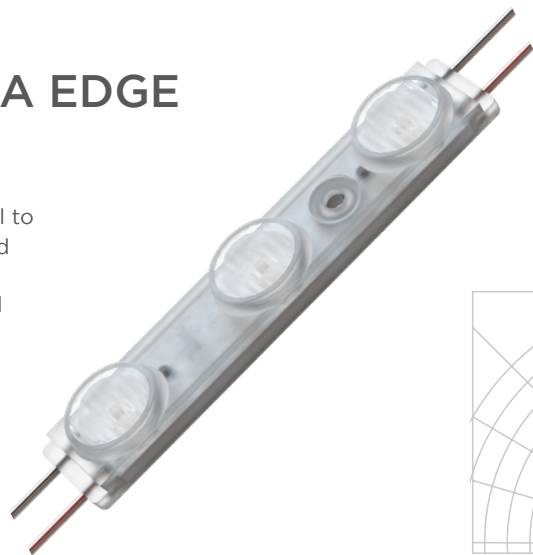
ULTRA 470				
Part Number	Color Temp	Nominal Light Output (lumens)		
		Per Module	Per Foot	Per Meter
Wattage: 0.66 W      Current: .055 A      83 Modules/60W PS				
LS-U470-75K-B150-A	7500K	67	134	442
LS-U470-65K-B150-A	6500K	70	140	462
LS-U470-57K-B150-A	5700K	67	134	442
LS-U470-50K-B150-A	5000K	67	134	442
LS-U470-40K-B150-A	4000K	67	134	442
LS-U470-30K-B150-A	3000K	63	126	416
LS-U470-27K-B150-A	2700K	63	126	416



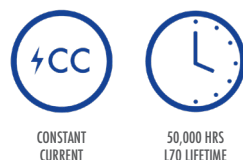
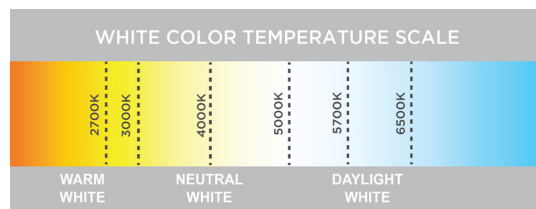
## ▶ SIGNRAYZ® ULTRA EDGE

### APPLICATIONS:

- Box signs (2-6 inches) in small to medium sizes, double face and single face Box signs
- Exterior linear fixtures for wall washing and billboard uplight



600 Series Batwing Pattern



### ULTRA EDGE SPECS

Module	Dimensions (L x W x H)		Module Spacing		Number of Modules	
ULTRA EDGE	4.13" x 0.69" x 0.57"	105 x 17.6 x 14.5 mm	6"	150 mm	1.5/ft	5/meter

### ULTRA EDGE ORDERING GUIDE

ULTRA EDGE				
Wattage: 1.87 W	Current: .156 A		30 Modules/60W PS Load	
Part Number	Color Temp	Lumens/Module	Lumens/Foot	Lumens/Meter
LS-U750-65K-E150-A	6500K	185	370	1240
LS-U750-57K-E150-A	5700K	185	370	1240
LS-U750-50K-E150-A	5000K	185	370	1240
LS-U750-40K-E150-A	4000K	185	370	1240
LS-U750-30K-E150-A	3000K	185	370	1240
LS-U750-27K-E150-A	2700K	185	350	1173

### ULTRA EDGE POPULATION DENSITY GUIDE

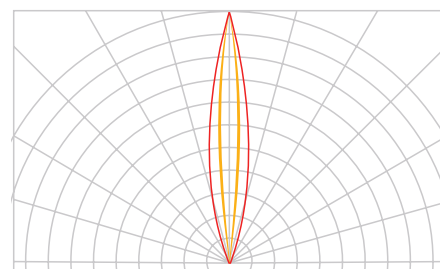
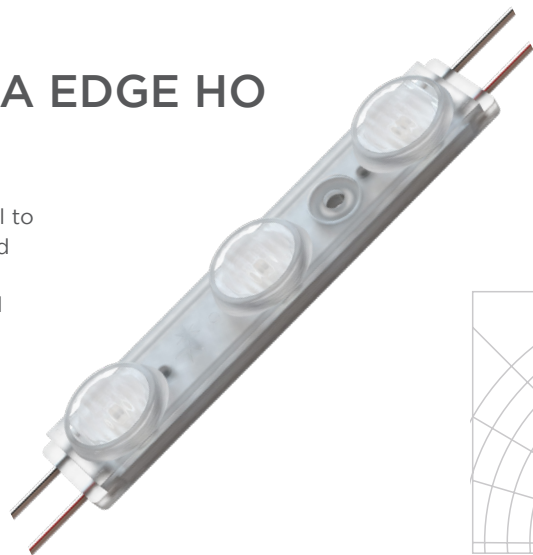
Single-Face (using 7328 white acrylic, 0.18"/4.5 mm)					
Mounting Configuration	Depth	Reachout Length	Module Spacing	Lit Area/Module	Optical Requirements on Housing Materials
On 1 edge	2"   50 mm	6 ft   760 mm	0.38 ft   115 mm	0.95 ft <sup>2</sup>   87400 mm <sup>2</sup>	Reflective white surface inside
	3"   75 mm	3.0 ft   915 mm	0.38 ft   115 mm	1.14 ft <sup>2</sup>   105225 mm <sup>2</sup>	
	4"   100 mm	3.0 ft   915 mm	0.38 ft   115 mm	1.14 ft <sup>2</sup>   105225 mm <sup>2</sup>	
	5"   125 mm	3.0 ft   915 mm	0.38 ft   115 mm	1.14 ft <sup>2</sup>   105225 mm <sup>2</sup>	
	6"   150 mm	3.0 ft   915 mm	0.38 ft   115 mm	1.14 ft <sup>2</sup>   105225 mm <sup>2</sup>	
On 2 opposite edges	2"   50 mm	2 x 1.5 ft   2 x 455 mm	0.38 ft   115 mm	0.57 ft <sup>2</sup>   52325 mm <sup>2</sup>	Reflective white surface inside
	3"   75 mm	2 x 2.5 ft   2 x 760 mm	0.38 ft   115 mm	0.95 ft <sup>2</sup>   87400 mm <sup>2</sup>	
	4"   100 mm	2 x 2.5 ft   2 x 760 mm	0.38 ft   115 mm	0.95 ft <sup>2</sup>   87400 mm <sup>2</sup>	
	5"   125 mm	2 x 2.5 ft   2 x 760 mm	0.38 ft   115 mm	0.95 ft <sup>2</sup>   87400 mm <sup>2</sup>	
	6"   150 mm	2 x 2.5 ft   2 x 760 mm	0.38 ft   115 mm	0.95 ft <sup>2</sup>   87400 mm <sup>2</sup>	
Double-Face (using 7328 white acrylic, 0.18"/4.5 mm)					
Mounting Configuration	Depth	Reachout Length	Module Spacing	Lit Area/Module	Optical Requirements on Housing Materials
On 1 edge	2"   50 mm	2.0 ft   610 mm	0.38 ft   115 mm	0.76 ft <sup>2</sup>   70150 mm <sup>2</sup>	Reflective white surface inside
	3"   75 mm	2.0 ft   610 mm	0.38 ft   115 mm	0.76 ft <sup>2</sup>   70150 mm <sup>2</sup>	
	4"   100 mm	2.0 ft   610 mm	0.38 ft   115 mm	0.76 ft <sup>2</sup>   70150 mm <sup>2</sup>	
	5"   125 mm	2.0 ft   610 mm	0.38 ft   115 mm	0.76 ft <sup>2</sup>   70150 mm <sup>2</sup>	
	6"   150 mm	2.0 ft   610 mm	0.38 ft   115 mm	0.76 ft <sup>2</sup>   70150 mm <sup>2</sup>	
On 2 opposite edges	2"   50 mm	2 x 1.25 ft   2 x 380 mm	0.38 ft   115 mm	0.48 ft <sup>2</sup>   43700 mm <sup>2</sup>	Reflective white surface inside
	3"   75 mm	2 x 1.5 ft   2 x 455 mm	0.38 ft   115 mm	0.57 ft <sup>2</sup>   52325 mm <sup>2</sup>	
	4"   100 mm	2 x 1.75 ft   2 x 535 mm	0.38 ft   115 mm	0.67 ft <sup>2</sup>   61525 mm <sup>2</sup>	
	5"   125 mm	2 x 1.75 ft   2 x 535 mm	0.38 ft   115 mm	0.67 ft <sup>2</sup>   61525 mm <sup>2</sup>	
	6"   150 mm	2 x 1.75 ft   2 x 535 mm	0.38 ft   115 mm	0.67 ft <sup>2</sup>   61525 mm <sup>2</sup>	



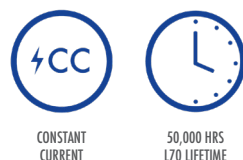
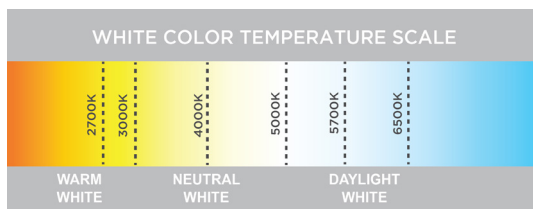
## ▶ SIGNRAYZ® ULTRA EDGE HO

### APPLICATIONS:

- Box signs (2-6 inches) in small to medium sizes, double face and single face Box signs
- Exterior linear fixtures for wall washing and billboard uplight



600 Series Batwing Pattern



### ULTRA EDGE HO SPECS

Module	Dimensions (L x W x H)	Module Spacing	Number of Modules
ULTRA EDGE HO	4.13" x 0.69" x 0.57"   105 x 17.6 x 14.5 mm	6"   150 mm	2/ft   6.7/meter

### ULTRA EDGE HO ORDERING GUIDE

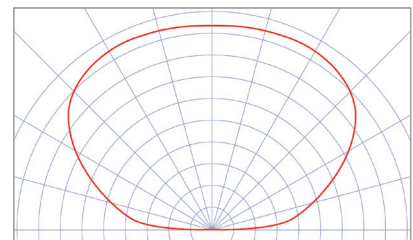
ULTRA EDGE HO				
Wattage: 2.76 W	Current: .230 A		20 Modules/60W PS Load	
Part Number	Color Temp	Lumens/Module	Lumens/Foot	Lumens/Meter
LS-U770-65K-E150-A	6500K	250	500	1675
LS-U770-57K-E150-A	5700K	250	500	1675
LS-U770-50K-E150-A	5000K	250	500	1675
LS-U770-40K-E150-A	4000K	250	500	1675
LS-U770-30K-E150-A	3000K	250	500	1675
LS-U770-27K-E150-A	2700K	240	480	1608

### ULTRA EDGE HO POPULATION DENSITY GUIDE

Single-Face (using 7328 white acrylic, 0.18"/4.5 mm)					
Mounting Configuration	Depth	Reachout Length	Module Spacing	Lit Area/Module	Optical Requirements on Housing Materials
On 1 edge	2"   50 mm	2.5 ft   760 mm	0.38 ft   115 mm	0.95 ft <sup>2</sup>   87400 mm <sup>2</sup>	Reflective white surface inside
	3"   75 mm	3.0 ft   915 mm	0.38 ft   115 mm	1.14 ft <sup>2</sup>   105225 mm <sup>2</sup>	
	4"   100 mm	3.5 ft   1065 mm	0.38 ft   115 mm	1.33 ft <sup>2</sup>   122475 mm <sup>2</sup>	
	5"   125 mm	4.0 ft   1220 mm	0.38 ft   115 mm	1.52 ft <sup>2</sup>   140300 mm <sup>2</sup>	
	6"   150 mm	4.0 ft   1220 mm	0.38 ft   115 mm	1.52 ft <sup>2</sup>   140300 mm <sup>2</sup>	
On 2 opposite edges	2"   50 mm	2 x 1.75 ft   2 x 535 mm	0.38 ft   115 mm	0.67 ft <sup>2</sup>   61525 mm <sup>2</sup>	Reflective white surface inside
	3"   75 mm	2 x 2.5 ft   2 x 760 mm	0.38 ft   115 mm	0.95 ft <sup>2</sup>   87400 mm <sup>2</sup>	
	4"   100 mm	2 x 2.5 ft   2 x 760 mm	0.38 ft   115 mm	0.95 ft <sup>2</sup>   87400 mm <sup>2</sup>	
	5"   125 mm	2 x 2.5 ft   2 x 760 mm	0.38 ft   115 mm	0.95 ft <sup>2</sup>   87400 mm <sup>2</sup>	
	6"   150 mm	2 x 2.5 ft   2 x 760 mm	0.38 ft   115 mm	0.95 ft <sup>2</sup>   87400 mm <sup>2</sup>	
Double-Face (using 7328 white acrylic, 0.18"/4.5 mm)					
Mounting Configuration	Depth	Reachout Length	Module Spacing	Lit Area/Module	Optical Requirements on Housing Materials
On 1 edge	2"   50 mm	2.0 ft   610 mm	0.38 ft   115 mm	0.76 ft <sup>2</sup>   70150 mm <sup>2</sup>	Reflective white surface inside
	3"   75 mm	2.5 ft   760 mm	0.38 ft   115 mm	0.95 ft <sup>2</sup>   87400 mm <sup>2</sup>	
	4"   100 mm	2.5 ft   760 mm	0.38 ft   115 mm	0.95 ft <sup>2</sup>   87400 mm <sup>2</sup>	
	5"   125 mm	2.5 ft   760 mm	0.38 ft   115 mm	0.95 ft <sup>2</sup>   87400 mm <sup>2</sup>	
	6"   150 mm	2.5 ft   760 mm	0.38 ft   115 mm	0.95 ft <sup>2</sup>   87400 mm <sup>2</sup>	
On 2 opposite edges	2"   50 mm	2 x 1.5 ft   2 x 455 mm	0.38 ft   115 mm	0.57 ft <sup>2</sup>   52325 mm <sup>2</sup>	Reflective white surface inside
	3"   75 mm	2 x 1.75 ft   2 x 535 mm	0.38 ft   115 mm	0.67 ft <sup>2</sup>   61525 mm <sup>2</sup>	
	4"   100 mm	2 x 2.0 ft   2 x 610 mm	0.38 ft   115 mm	0.76 ft <sup>2</sup>   70150 mm <sup>2</sup>	
	5"   125 mm	2 x 2.0 ft   2 x 610 mm	0.38 ft   115 mm	0.76 ft <sup>2</sup>   70150 mm <sup>2</sup>	
	6"   150 mm	2 x 2.0 ft   2 x 610 mm	0.38 ft   115 mm	0.76 ft <sup>2</sup>   70150 mm <sup>2</sup>	

# SIGNRAYZ® THE MINI FAMILY

THE SMALLEST WATERPROOF LED FOR MINIATURE LETTERS

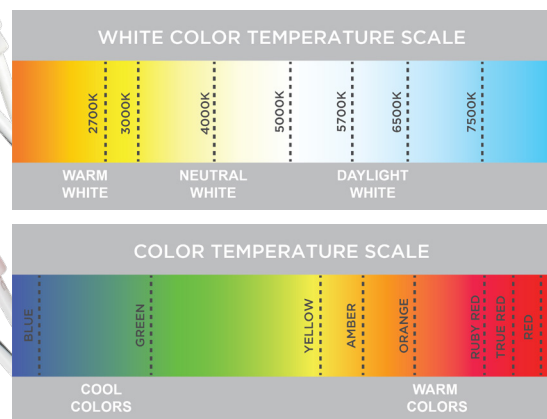


L4 Beam Pattern

## ▶ SIGNRAYZ® ULTRA MINI WHITE / COLOR

APPLICATIONS:

- Outdoor miniature channel letters
- Outdoor acrylic block letters
- Ultra narrow and shallow channel letters
- Accent lighting
- Applications starting at 1" (25 mm) depth or higher



### ULTRA MINI SPECS

Module	Dimensions (L x W x H)		Module Spacing		Number of Modules	
	Length	Width	Foot	Meter	Foot	Meter
ULTRA MINI L4-50A	0.7"	0.31" x 0.39"	1.97"	50 mm	6 per foot	20 per meter
ULTRA MINI L4-35A	0.7"	0.31" x 0.39"	1.32"	33.5 mm	9 per foot	30 per meter
ULTRA MINI L4-50B	0.7"	0.31" x 0.39"	1.97"	50 mm	6 per foot	20 per meter
ULTRA MINI L4-35B	0.7"	0.31" x 0.39"	1.32"	33.5 mm	9 per foot	30 per meter
ULTRA MINI COLOR L4-50A	0.7"	0.31" x 0.39"	1.97"	50 mm	6 per foot	20 per meter
ULTRA MINI COLOR L4-35A	0.7"	0.31" x 0.39"	1.32"	33.5 mm	9 per foot	30 per meter

### ULTRA MINI WHITE A & B ORDER INFORMATION

Part Number	Color Temperature	Nominal Light Output (lumens)		
		Per Module	Per Foot	Per Meter
LS-UMIN-75K-L4-50A	7500K	21	128	420
LS-UMIN-65K-L4-50A	6500K	21	128	420
LS-UMIN-57K-L4-50A	5700K	21	128	420
LS-UMIN-50K-L4-50A	5000K	21	128	420
LS-UMIN-45K-L4-50A	4500K	18	110	360
LS-UMIN-41K-L4-50A	4100K	18	110	360
LS-UMIN-30K-L4-50A	3000K	18	110	360
LS-UMIN-27K-L4-50A	2700K	18	110	360
LS-UMIN-75K-L4-35A	7500K	21	191	627
LS-UMIN-65K-L4-35A	6500K	21	191	627
LS-UMIN-57K-L4-35A	5700K	21	191	627
LS-UMIN-50K-L4-35A	5000K	21	191	627
LS-UMIN-45K-L4-35A	4500K	18	164	537
LS-UMIN-41K-L4-35A	4100K	18	164	537
LS-UMIN-30K-L4-35A	3000K	18	164	537
LS-UMIN-27K-L4-35A	2700K	18	164	537
LS-UMIN-80K-L4-50B	8000K	24	146	450
LS-UMIN-65K-L4-50B	6500K	22	134	440
LS-UMIN-57K-L4-50B	5700K	22	134	440
LS-UMIN-50K-L4-50B	5000K	22	134	440
LS-UMIN-40K-L4-50B	4000K	22	134	440
LS-UMIN-30K-L4-50B	3000K	22	134	440
LS-UMIN-27K-L4-50B	2700K	20	122	400
LS-UMIN-80K-L4-35B	8000K	24	218	720
LS-UMIN-65K-L4-35B	6500K	22	200	660
LS-UMIN-57K-L4-35B	5700K	22	200	660
LS-UMIN-50K-L4-35B	5000K	22	200	660
LS-UMIN-40K-L4-35B	4000K	22	200	660
LS-UMIN-30K-L4-35B	3000K	22	200	660
LS-UMIN-27K-L4-35B	2700K	20	182	600



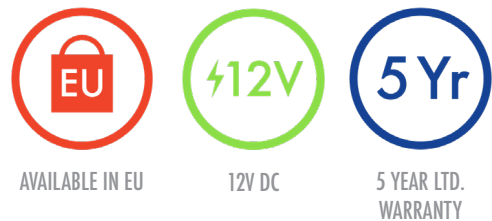
### ULTRA MINI COLOR ORDER INFORMATION

Color: TRD, GRN, BLU (LS-UMIN-XXX-L4-XXXA)		Wattage: 0.12 W	Current: 0.010 A	Modules/60W PS Load: 460	
Part Number	Color	Nominal Light Output (lumens)			
		Per Module	Per Foot	Per Meter	
LS-UMIN-TRD-L4-50A	True Red (625 nm)	4.4	27	88	
LS-UMIN-BLU-L4-50A	Blue (467 nm)	2.6	16	52	
LS-UMIN-GRN-L4-50A	Green (526 nm)	11.6	71	232	
LS-UMIN-TRD-L4-35A	True Red (625 nm)	4.4	40	132	
LS-UMIN-BLU-L4-35A	Blue (467 nm)	2.6	24	78	
LS-UMIN-GRN-L4-35A	Green (526 nm)	11.6	106	348	

### POPULATION DENSITY GUIDE\* (inch | mm)

Channel Depth	LS-UMIN-XXX-L4-XXXA / LS-UMIN-XXX-L4-XXXB					
	Single Stroke				Multiple Row	
	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

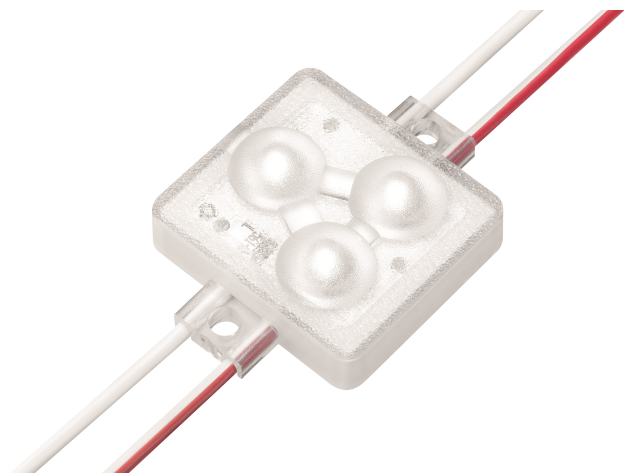
\* Module spacing is defined to achieve minimum 600 lux at sign face (7328 white)



AVAILABLE IN EU

12V DC

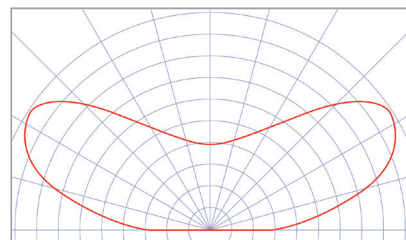
5 YEAR LTD. WARRANTY



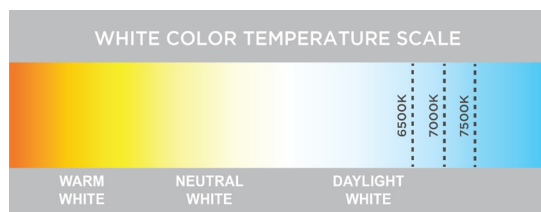
## PRO XTRA

### APPLICATIONS:

- Channel letters
- Box signs
- Cloud signs
- Accent lighting



P1 Beam Pattern



### PRO XTRA SPECS

Module	Dimensions (L x W x H)	Module Spacing	Number of Modules
PRO XTRA	1.63" x 1.27" 0.44"   41.5 x 32.3 x 11.1 mm	10"   250 mm	1.2 per foot   4 per meter

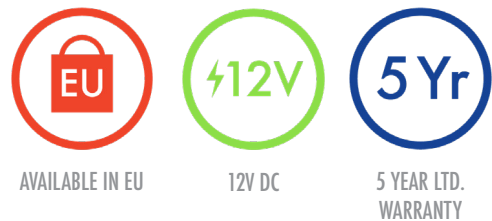


### PRO XTRA ORDER INFORMATION

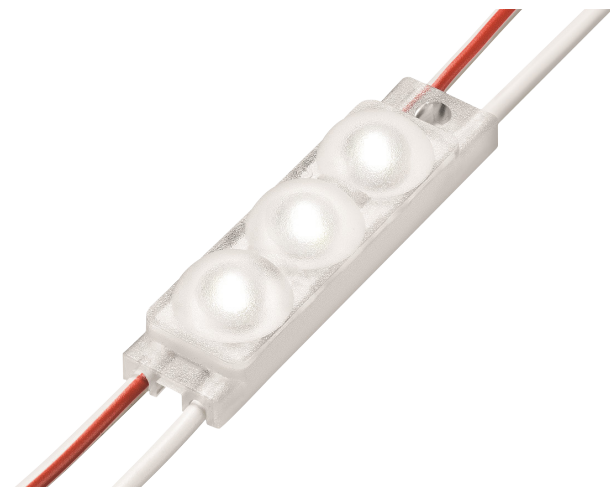
Wattage	Current	60W PS Load		
1.02 W	.085 A	54 Modules		
Part Number	Color Temp	Nominal Light Output (lumens)		
		Per Module	Per Foot	Per Meter
LS-PXTR-75K-P1-250A	7500K	115	140	460
LS-PXTR-65K-P1-250A	6500K	115	140	460
LS-PXTR-40K-P1-250A	4000K	106	129	424
LS-PXTR-30K-P1-250A	3000K	97	118	388

### PRO XTRA POPULATION DENSITY GUIDE\* (inch | mm)

Channel Depth	Single Row		Multiple Rows	
	Max. Stroke	Module Spacing	Row Spacing	Module Spacing
4   100	10   250	8   200	8   200	8   200
5   125	12   300	10   250	10   250	10   250
6   150	14   350	10   250	12   300	10   250
7   175	13   325	10   250	14   350	10   250
8   200	12   300	10   250	13   325	10   250



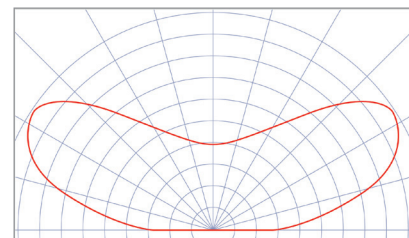
AVAILABLE IN EU    12V DC    5 YEAR LTD. WARRANTY



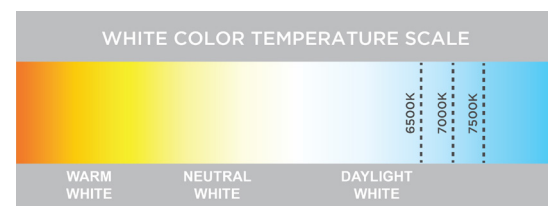
## PRO LITE

### APPLICATIONS:

- Channel letters
- Box signs
- Cloud signs
- Accent lighting



P1 Beam Pattern



### PRO LITE SPECS

Module	Dimensions (L x W x H)	Module Spacing	Number of Modules
PRO LITE	1.89" x 0.47" 0.32"   48 x 12 x 9.5 mm	8"   200 mm	1.5 per foot   5 per meter



### PRO LITE ORDER INFORMATION

Wattage 0.72 W	Current .060 A	60W PS Load 77 Modules		
		Nominal Light Output (lumens)		
Part Number	Color Temp	Per Module	Per Foot	Per Meter
LS-PRLT-75K-P1-200A	7500K	80	122	400
LS-PRLT-70K-P1-200A	7000K	75	114	375
LS-PRLT-65K-P1-200A	6500K	80	122	400

### PRO LITE POPULATION DENSITY GUIDE\* (inch | mm)

Channel Depth	Single Row		Multiple Rows	
	Max. Stroke	Module Spacing	Row Spacing	Module Spacing
2   50	5.5   140	3.75   95	2.75**   70**	3.5**   85*
3   75	8   200	6   150	4.5**   115**	5**   125*
4   100	10   250	8   200	6.5   165	7   175
5   125	10   250	8   200	8   200	8   200
6   150	9   225	8   200	10   250	8   200

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

\*\* Modules are staggered



# RIBBONRAYZ® LED LIGHT TAPE

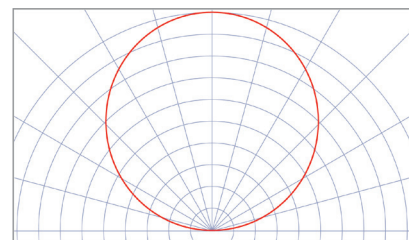
A BRIGHT AND VERSATILE OPTION FOR INDOOR AND OUTDOOR SIGNAGE



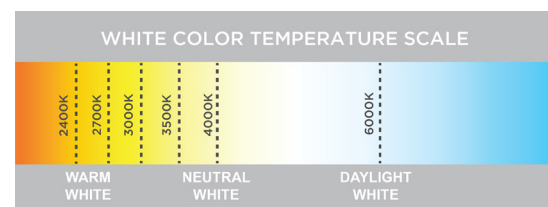
## RIBBONRAYZ® IP20

### APPLICATIONS:

- Back lighting for interior and signage applications
- Accent lighting
- Coves and toe kicks
- Under-cabinet



L1 & L3 Beam Pattern



### RIBBONRAYZ® IP20 SPECS

Module	Dimensions (L x W x H)		LED Spacing		LED Pitch
RibbonRayz® IP20	4.92"	0.51" x 0.04"	0.7"	17.86 mm	7 LEDs per 125 mm

### RIBBONRAYZ® IP20 ORDERING GUIDE

Wattage	Efficacy	60W PS Load		
4.80 W/m, 7.26 W/m, 10.06 W/m	112 - 129 lm/W	--		
Part Number	Color Temp	Nominal Light Output (lumens)		
		Lumens/Meter	Lumens/Foot	Lumens/Watt
LT-R130-60K-04.8-20-A	6000K	620	191	129
LT-R130-60K-07.3-20-A		910	280	125
LT-R130-60K-10.0-20-A		1200	369	120
LT-R130-40K-04.8-20-A	4000K	620	191	129
LT-R130-40K-07.3-20-A		910	280	125
LT-R130-40K-10.0-20-A		1200	369	120
LT-R130-35K-04.8-20-A	3500K	620	191	129
LT-R130-35K-07.3-20-A		910	280	125
LT-R130-35K-10.0-20-A		1200	369	120
LT-R130-30K-04.8-20-A	3000K	575	175	120
LT-R130-30K-07.3-20-A		840	256	115
LT-R130-30K-10.0-20-A		1120	341	112
LT-R130-27K-04.8-20-A	2700K	575	175	120
LT-R130-27K-07.3-20-A		840	256	115
LT-R130-27K-10.0-20-A		1120	341	112
LT-R130-24K-04.8-20-A	2400K	575	175	120
LT-R130-24K-07.3-20-A		840	256	115
LT-R130-24K-10.0-20-A		1120	341	112



## ▶ RIBBONRAYZ® IP68

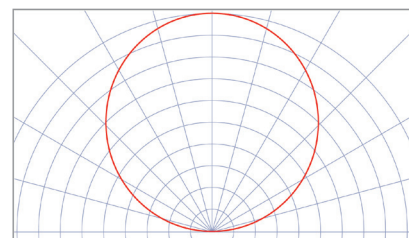
### APPLICATIONS:

- Back lighting for interior and signage applications
- Accent lighting
- Coves and toe kicks
- Under-cabinet



NEW PRODUCT

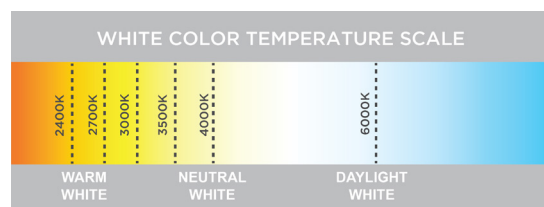
24V DC



L1 & L3 Beam Pattern



ONEWhite® COLOR CONSISTENCY    VERSALENZ® ADVANCED OPTICS    CAPZUL® WATERPROOF    CONSTANT CURRENT    UV RESISTANT    50,000 HRS L70 LIFETIME



### RIBBONRAYZ® IP68 SPECS

Module	Dimensions (L x W x H)		LED Spacing		LED Pitch
RibbonRayz® IP 68	4.92" x 0.51" x 0.17"	125 x 13 x 4.2 mm	0.7"	17.86 mm	7 LEDs per 125 mm



Distributed by: Polymershapes



# 24 HOUR ATM

## RIBBONRAYZ<sup>®</sup> IP68 ORDERING GUIDE

Wattage	Efficacy	60W PS Load		
4.80 W/m, 7.26 W/m, 10.06 W/m	94 - 110 lm/W	--		
Part Number	Color Temp	Nominal Light Output (lumens)		
		Lumens/Meter	Lumens/Foot	Lumens/Watt
LT-R130-60K-04.8-68-A	6000K	527	162	110
LT-R130-60K-07.3-68-A		774	238	107
LT-R130-60K-10.0-68-A		1020	314	102
LT-R130-40K-04.8-68-A	4000K	527	162	110
LT-R130-40K-07.3-68-A		774	238	107
LT-R130-40K-10.0-68-A		1020	314	102
LT-R130-35K-04.8-68-A	3500K	527	162	110
LT-R130-35K-07.3-68-A		774	238	107
LT-R130-35K-10.0-68-A		1020	314	102
LT-R130-30K-04.8-68-A	3000K	490	149	102
LT-R130-30K-07.3-68-A		710	216	97
LT-R130-30K-10.0-68-A		945	288	94
LT-R130-27K-04.8-68-A	2700K	490	149	102
LT-R130-27K-07.3-68-A		710	216	97
LT-R130-27K-10.0-68-A		945	288	94
LT-R130-24K-04.8-68-A	2400K	490	149	102
LT-R130-24K-07.3-68-A		710	216	97
LT-R130-24K-10.0-68-A		945	288	94

# BoxRayz® LED SYSTEMS

## THE BRIGHTEST LED SOLUTION FOR CABINET SIGNS

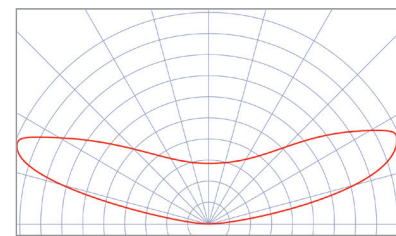
BOXRAYZ® – Featuring 470 lumen per module and specially designed optical beam patterns, BoxRayz® reduces the number of modules per sign by up to 70%, providing the lowest Total System Cost for large cabinet sign illumination. Also, BoxRayz's plug-and-play, one-way connector system eliminates the electrical wire cutting, simplifying the installation process and reducing the labor cost.



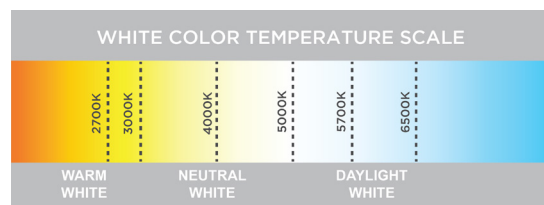
### ▶ BOXRAYZ® 2.0

#### APPLICATIONS:

- Single face cabinet signs
- Double face cabinet signs
- Box signs
- Cloud signs
- Applications starting at 5" (125 mm) depth or higher



B7 Beam Pattern



### BOXRAYZ® 2.0 SPECS

Module	Dimensions (L x W x H)		Module Spacing		Number of Modules	
BoxRayz® 2.0	5.2"	1.9" x 0.6"	16"	406 mm	0.75 per foot	2.5 per meter

### BOXRAYZ® 2.0 ORDERING INFORMATION

Part Number	Color Temp	Nominal Light Output (lumens)			Modules per Connector Set
		Per Module	Per Foot	Per Meter	
Wattage: 3.85 W		Current: 1.40 A		150W CC PS: 34 Modules	Connector: BR02
LS-BR02-65K1B7-405A	6500K	470	353	1156	1
LS-BR02-57K1B7-405A	5700K	470	353	1156	1
LS-BR02-50K1B7-405A	5000K	470	353	1156	1
LS-BR02-40K1B7-405A	4000K	470	353	1156	1
LS-BR02-30K1B7-405A	3000K	450	338	1107	1
LS-BR02-27K1B7-405A	2700K	450	338	1107	1
LS-BR02-65K4B7-405A	6500K	470	353	1175	4
LS-BR02-57K4B7-405A	5700K	470	353	1175	4
LS-BR02-50K4B7-405A	5000K	470	353	1175	4
LS-BR02-40K4B7-405A	4000K	470	353	1175	4
LS-BR02-30K4B7-405A	3000K	450	338	1125	4
LS-BR02-27K4B7-405A	2700K	450	338	1125	4

### POPULATION DENSITY GUIDE\* (inch | mm)

Cabinet Sign Depth	Multiple Row Spacing	Module Spacing
5   125	12   305	12   305
6   150	14   356	14   356
7   180	16   406	16   406
8   200	18   457	16   406
9   230	20   508	16   406
10   250	22   559	16   406
11   280	24   610	16   406
12   305	24   610 **	16   406

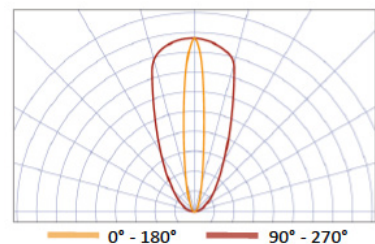
\*Density guide designed to maintain a minimum of 800 lux for multiple rows at sign face (7328 white).  
 \*\* Can go wider if needed.



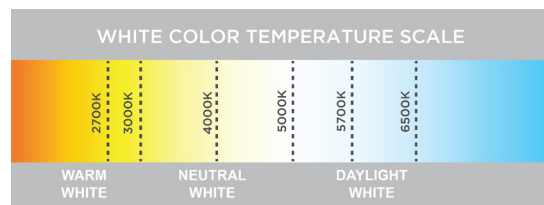
## BOXRAYZ® EDGE

### APPLICATIONS:

- Edge lighting for small to medium single and double faced box signs
- Applications starting at 3"- 6" (75 - 150 mm) depth



E1 Beam Pattern



## BOXRAYZ® EDGE SPECS

Module	Dimensions (L x W x H)		Module Spacing		Number of Modules	
BoxRayz® EDGE	4.1"	1.5" x 0.7"	12"	305 mm	1 per foot	3.3 per meter

Distributed by: Polymershapes

## BOXRAYZ® EDGE ORDERING INFORMATION

Part Number	Color Temp	Nominal Light Output (lumens)			Modules per Connector Set
		Per Module	Per Foot	Per Meter	
LS-EG40-65K1E1-300A	6500K	410	410	1345	1
LS-EG40-57K1E1-300A	5700K	410	410	1345	1
LS-EG40-50K1E1-300A	5000K	410	410	1345	1
LS-EG40-45K1E1-300A	4500K	350	350	1148	1
LS-EG40-30K1E1-300A	3000K	330	330	1082	1
LS-EG40-27K1E1-300A	2700K	300	300	984	1
LS-EG40-65K4E1-300A	6500K	410	410	1345	4
LS-EG40-57K4E1-300A	5700K	410	410	1345	4
LS-EG40-50K4E1-300A	5000K	410	410	1345	4
LS-EG40-45K4E1-300A	4500K	350	350	1148	4
LS-EG40-30K4E1-300A	3000K	330	330	1082	4
LS-EG40-27K4E1-300A	2700K	300	300	984	4

## CONSTANT-CURRENT (CC) POWER SUPPLIES

The UL Class 2 certified constant-current power supplies can load up to 32 BoxRayz® LED modules. They feature a built-in 0-10V dimming control, making it convenient to adjust the sign face brightness onsite.

75 W CC - loading 5 to 16 BoxRayz® LED modules.

150 W CC - loading 9 to 32 BoxRayz® LED modules.

## POPULATION DENSITY GUIDE\* (inch & mm)

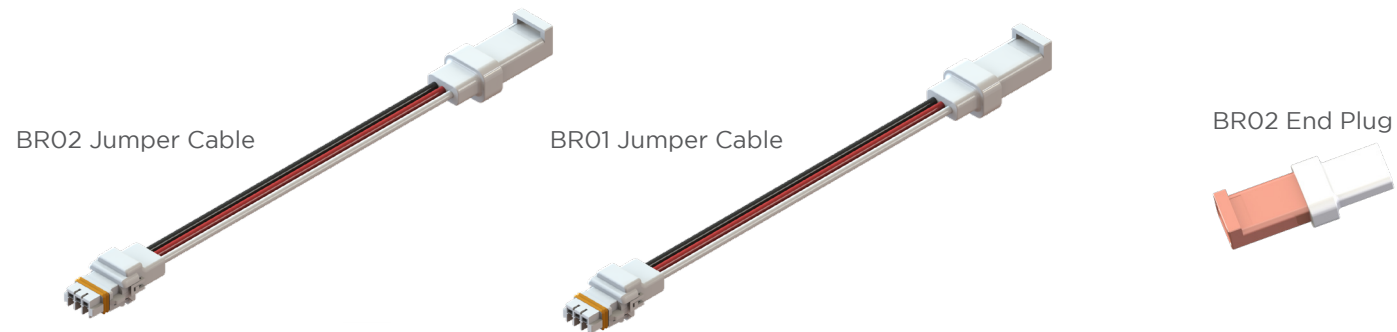
Sign Type	Module Mounting	Sign Depth		Reach Out Length		Module Spacing	
Single Face Box Sign (7328 White Acrylic 0.18"; 4.6 mm)	On One Single Edge	3	75	36	914	7	178
		4	100	36	914	8	203
		5	125	42	1067	10	254
	On Two Opposite Edges	6	150	42	1067	12	305
		3	75	2 x 30	2 x 762	7	178
		4	100	2 x 30	2 x 762	8	203
Double Face Box Sign (7328 White Acrylic 0.18"; 4.6 mm)	On One Single Edge	5	125	2 x 36	2 x 914	10	254
		6	150	2 x 36	2 x 914	12	305
		3	75	36	914	5	127
	On Two Opposite Edges	4	100	36	914	6	152
		5	125	42	1067	9	229
		6	150	42	1067	9	229

\* Module spacing is defined to achieve a minimum of 600 lux for a single row or 800 lux for multiple rows at sign face (7328 white acrylic). Face material is 3/16" (4.50 mm) thick. Please refer to the spec sheet for module spacing.



CLASS 2 CONSTANT CURRENT (UL CERTIFIED)

▶ **BOXRAYZ® ACCESSORIES**



**BOXRAYZ® ACCESSORY SPECS**

Part Number	Product Name	Connector	Connector Type	Wire Gauge	IP Rating
LS-BOXZAC-BRCT-WHT	Light Bar Mounting Bracket		N/A	N/A	N/A
LS-BOXZAC-EPLG	LED String End Plug	BoxRayz® 400 /	1 Plug - BR01	N/A	IP67
LS-BOXZAC-JUMP-18	18" jumper cable (457 mm)	BoxRayz® EDGE	1 Plug & 1 Receptacle - BR01	22	IP67
LS-BOXZAC-JUMP-36	36" jumper cable (914mm)		1 Plug & 1 Receptacle - BR01	22	IP67
AC-EPLG-00-3-BR02-1	LED String End Plug - BR02		1 Plug - BR02	N/A	IP67
AC-JUMP-18-3-BR02-1	18" jumper cable (457mm) - BR02	BoxRayz® 2.0	1 Plug & 1 Receptacle - BR02	22	IP67
AC-JUMP-36-3-BR02-1	36" jumper cable (914mm) - BR02		1 Plug & 1 Receptacle - BR02	22	IP67



# RETRORAYZ® LED LIGHT BARS

## DIRECT REPLACEMENT OF FLUORESCENT LAMPS IN BOX AND CABINET SIGNS



The RetroRayz® LED Light Bars provide a cost-effective solution to replace the linear fluorescent lamps in cabinet signs. With a quick and easy retrofit installation, the end users can switch to LED technology and enjoy its benefits:

- Mercury Free
- 40% higher system efficacy
- Longer lifetime and lower maintenance
- Better cold weather performance

The RetroRayz® series offers 14 length options from 18" to 120", at 3 color temperatures (6500K, 5000K, 4100K). It also offers two levels of light output:

- RetroRayz® 500 at 500 lumen per foot
- RetroRayz® 700 at 700 lumen per foot

The RetroRayz® LED Light Bars are compatible with R17d Recessed Double Contact (RDC) lamp sockets, serving as a direct replacement of T12 and T8 fluorescent lamps.

### ▶ RETRORAYZ® 500

#### APPLICATIONS:

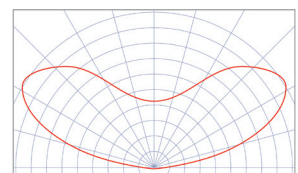
- Compatible with R17d RDC lamp sockets
- Fluorescent lamp retrofits in signage
- Double face cabinet signs
- Double face box signs



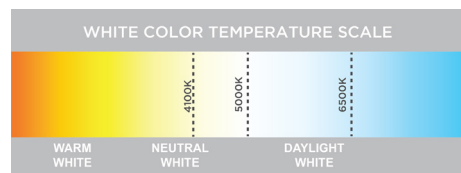
### ▶ RETRORAYZ® 700

#### APPLICATIONS:

- Compatible with R17d RDC lamp sockets
- Fluorescent lamp retrofits in signage
- Double face cabinet signs
- Double face box signs



G3 Beam Pattern



cULus CE IP68 LM-79 LM-80 cULus LISTED RoHS



Distributed by: Polymershapes

**GEN LED** **AGILIGHT**  
Innovative Signage Lighting

SignRayz® ULTRA 670, Back & Halo Lit  
LS-U670-65K-B250-A  
Height 25" | 635 mm  
Depth 5" | 125 mm  
Stroke 6 - 8.5" | 152 - 216 mm

**24V RETRORAYZ® 500 DOUBLE-SIDED ORDERING INFORMATION**

Part Number	Color Temp	Nominal Length	Light Output *	Wattage	# of LED Modules	Weight	Compatible FL Lamp
LS-RTRZ5-018-65K-2DS	6500K	1'6"	560 lm	4.9 W	4	0.4 lb	F18T12
LS-RTRZ5-018-50K-2DS	5000K	1'6"	560 lm	4.9 W	4	0.4 lb	F18T12
LS-RTRZ5-018-40K-2DS	4000K	1'6"	470 lm	4.9 W	4	0.4 lb	F18T12
LS-RTRZ5-024-65K-2DS	6500K	2'	840 lm	7.4 W	6	0.6 lb	F24T12
LS-RTRZ5-024-50K-2DS	5000K	2'	840 lm	7.4 W	6	0.6 lb	F24T12
LS-RTRZ5-024-40K-2DS	4000K	2'	710 lm	7.4 W	6	0.6 lb	F24T12
LS-RTRZ5-030-65K-2DS	6500K	2'6"	1120 lm	9.9 W	8	0.8 lb	F30T12
LS-RTRZ5-030-50K-2DS	5000K	2'6"	1120 lm	9.9 W	8	0.8 lb	F30T12
LS-RTRZ5-030-40K-2DS	4000K	2'6"	940 lm	9.9 W	8	0.8 lb	F30T12
LS-RTRZ5-036-65K-2DS	6500K	3'	1400 lm	12.4 W	10	0.9 lb	F36T12
LS-RTRZ5-036-50K-2DS	5000K	3'	1400 lm	12.4 W	10	0.9 lb	F36T12
LS-RTRZ5-036-40K-2DS	4000K	3'	1180 lm	12.4 W	10	0.9 lb	F36T12
LS-RTRZ5-042-65K-2DS	6500K	3'6"	1680 lm	14.8 W	12	1.1 lb	F42T12
LS-RTRZ5-042-50K-2DS	5000K	3'6"	1680 lm	14.8 W	12	1.1 lb	F42T12
LS-RTRZ5-042-40K-2DS	4000K	3'6"	1420 lm	14.8 W	12	1.1 lb	F42T12
LS-RTRZ5-048-65K-2DS	6500K	4'	1960 lm	17.3 W	14	1.3 lb	F48T12
LS-RTRZ5-048-50K-2DS	5000K	4'	1960 lm	17.3 W	14	1.3 lb	F48T12
LS-RTRZ5-048-40K-2DS	4000K	4'	1650 lm	17.3 W	14	1.3 lb	F48T12
LS-RTRZ5-060-65K-2DS	6500K	5'	2520 lm	22.2 W	18	1.7 lb	F60T12
LS-RTRZ5-060-50K-2DS	5000K	5'	2520 lm	22.2 W	18	1.7 lb	F60T12
LS-RTRZ5-060-40K-2DS	4000K	5'	2120 lm	22.2 W	18	1.7 lb	F60T12
LS-RTRZ5-064-65K-2DS	6500K	5'4"	2800 lm	24.7 W	20	1.8 lb	F64T12
LS-RTRZ5-064-50K-2DS	5000K	5'4"	2800 lm	24.7 W	20	1.8 lb	F64T12
LS-RTRZ5-064-40K-2DS	4000K	5'4"	2360 lm	24.7 W	20	1.8 lb	F64T12
LS-RTRZ5-072-65K-2DS	6500K	6'	3080 lm	27.2 W	22	2.0 lb	F72T12
LS-RTRZ5-072-50K-2DS	5000K	6'	3080 lm	27.2 W	22	2.0 lb	F72T12
LS-RTRZ5-072-40K-2DS	4000K	6'	2600 lm	27.2 W	22	2.0 lb	F72T12
LS-RTRZ5-084-65K-2DS	6500K	7'	3640 lm	32.1 W	26	2.4 lb	F84T12
LS-RTRZ5-084-50K-2DS	5000K	7'	3640 lm	32.1 W	26	2.4 lb	F84T12
LS-RTRZ5-084-40K-2DS	4000K	7'	3070 lm	32.1 W	26	2.4 lb	F84T12
LS-RTRZ5-096-65K-2DS	6500K	8'	4200 lm	37.1 W	30	2.7 lb	F96T12
LS-RTRZ5-096-50K-2DS	5000K	8'	4200 lm	37.1 W	30	2.7 lb	F96T12
LS-RTRZ5-096-40K-2DS	4000K	8'	3540 lm	37.1 W	30	2.7 lb	F96T12
LS-RTRZ5-108-65K-2DS	6500K	9'	4760 lm	42.0 W	34	3.1 lb	F108T12
LS-RTRZ5-108-50K-2DS	5000K	9'	4760 lm	42.0 W	34	3.1 lb	F108T12
LS-RTRZ5-108-40K-2DS	4000K	9'	4010 lm	42.0 W	34	3.1 lb	F108T12
LS-RTRZ5-117-65K-2DS	6500K	9'9"	5320 lm	47.0 W	38	3.3 lb	F117T12
LS-RTRZ5-117-50K-2DS	5000K	9'9"	5320 lm	47.0 W	38	3.3 lb	F117T12
LS-RTRZ5-117-40K-2DS	4000K	9'9"	4480 lm	47.0 W	38	3.3 lb	F117T12
LS-RTRZ5-120-65K-2DS	6500K	10'	5320 lm	47.0 W	38	3.4 lb	F120T12
LS-RTRZ5-120-50K-2DS	5000K	10'	5320 lm	47.0 W	38	3.4 lb	F120T12
LS-RTRZ5-120-40K-2DS	4000K	10'	4480 lm	47.0 W	38	3.4 lb	F120T12

\* +/- 10%

\* Modules are connected in multiple parallel strings. The number of modules in each string should not exceed the specified limit under "Max # Modules per String".

\*\* 3 — 60 Watt Channels  
Note: LS-UMIN-YYY indicates colors

**24V RETRORAYZ® 700 DOUBLE-SIDED ORDERING INFORMATION**

Part Number	Color Temp	Nominal Length	Light Output *	Wattage	# of LED Modules	Weight	Compatible FL Lamp
LS-RTRZ7-018-65K-2DS	6500K	1'6"	840 lm	7.4 W	6	0.5 lb	F18T12
LS-RTRZ7-018-50K-2DS	5000K	1'6"	840 lm	7.4 W	6	0.5 lb	F18T12
LS-RTRZ7-018-40K-2DS	4000K	1'6"	710 lm	7.4 W	6	0.5 lb	F18T12
LS-RTRZ7-024-65K-2DS	6500K	2'	1400 lm	12.4 W	10	0.7 lb	F24T12
LS-RTRZ7-024-50K-2DS	5000K	2'	1400 lm	12.4 W	10	0.7 lb	F24T12
LS-RTRZ7-024-40K-2DS	4000K	2'	1180 lm	12.4 W	10	0.7 lb	F24T12
LS-RTRZ7-030-65K-2DS	6500K	2'6"	1680 lm	14.8 W	12	0.9 lb	F30T12
LS-RTRZ7-030-50K-2DS	5000K	2'6"	1680 lm	14.8 W	12	0.9 lb	F30T12
LS-RTRZ7-030-40K-2DS	4000K	2'6"	1420 lm	14.8 W	12	0.9 lb	F30T12
LS-RTRZ7-036-65K-2DS	6500K	3'	1960 lm	17.3 W	14	1.0 lb	F36T12
LS-RTRZ7-036-50K-2DS	5000K	3'	1960 lm	17.3 W	14	1.0 lb	F36T12
LS-RTRZ7-036-40K-2DS	4000K	3'	1650 lm	17.3 W	14	1.0 lb	F36T12
LS-RTRZ7-042-65K-2DS	6500K	3'6"	2520 lm	22.2 W	18	1.2 lb	F42T12
LS-RTRZ7-042-50K-2DS	5000K	3'6"	2520 lm	22.2 W	18	1.2 lb	F42T12
LS-RTRZ7-042-40K-2DS	4000K	3'6"	2120 lm	22.2 W	18	1.2 lb	F42T12
LS-RTRZ7-048-65K-2DS	6500K	4'	2800 lm	24.7 W	20	1.4 lb	F48T12
LS-RTRZ7-048-50K-2DS	5000K	4'	2800 lm	24.7 W	20	1.4 lb	F48T12
LS-RTRZ7-048-40K-2DS	4000K	4'	2360 lm	24.7 W	20	1.4 lb	F48T12
LS-RTRZ7-060-65K-2DS	6500K	5'	3640 lm	32.1 W	26	1.8 lb	F60T12
LS-RTRZ7-060-50K-2DS	5000K	5'	3640 lm	32.1 W	26	1.8 lb	F60T12
LS-RTRZ7-060-40K-2DS	4000K	5'	3070 lm	32.1 W	26	1.8 lb	F60T12
LS-RTRZ7-064-65K-2DS	6500K	5'4"	3920 lm	34.6 W	28	2.0 lb	F64T12
LS-RTRZ7-064-50K-2DS	5000K	5'4"	3920 lm	34.6 W	28	2.0 lb	F64T12
LS-RTRZ7-064-40K-2DS	4000K	5'4"	3300 lm	34.6 W	28	2.0 lb	F64T12
LS-RTRZ7-072-65K-2DS	6500K	6'	4200 lm	37.1 W	30	2.2 lb	F72T12
LS-RTRZ7-072-50K-2DS	5000K	6'	4200 lm	37.1 W	30	2.2 lb	F72T12
LS-RTRZ7-072-40K-2DS	4000K	6'	3540 lm	37.1 W	30	2.2 lb	F72T12
LS-RTRZ7-084-65K-2DS	6500K	7'	5040 lm	44.5 W	36	2.6 lb	F84T12
LS-RTRZ7-084-50K-2DS	5000K	7'	5040 lm	44.5 W	36	2.6 lb	F84T12
LS-RTRZ7-084-40K-2DS	4000K	7'	4250 lm	44.5 W	36	2.6 lb	F84T12
LS-RTRZ7-096-65K-2DS	6500K	8'	5880 lm	51.9 W	42	3.0 lb	F96T12
LS-RTRZ7-096-50K-2DS	5000K	8'	5880 lm	51.9 W	42	3.0 lb	F96T12
LS-RTRZ7-096-40K-2DS	4000K	8'	4960 lm	51.9 W	42	3.0 lb	F96T12
LS-RTRZ7-108-65K-2DS	6500K	9'	6440 lm	56.9 W	46	3.3 lb	F108T12
LS-RTRZ7-108-50K-2DS	5000K	9'	6440 lm	56.9 W	46	3.3 lb	F108T12
LS-RTRZ7-108-40K-2DS	4000K	9'	5430 lm	56.9 W	46	3.3 lb	F108T12
LS-RTRZ7-117-65K-2DS	6500K	9'9"	7280 lm	64.3 W	52	3.6 lb	F117T12
LS-RTRZ7-117-50K-2DS	5000K	9'9"	7280 lm	64.3 W	52	3.6 lb	F117T12
LS-RTRZ7-117-40K-2DS	4000K	9'9"	6140 lm	64.3 W	52	3.6 lb	F117T12
LS-RTRZ7-120-65K-2DS	6500K	10'	7280 lm	64.3 W	52	3.7 lb	F120T12
LS-RTRZ7-120-50K-2DS	5000K	10'	7280 lm	64.3 W	52	3.7 lb	F120T12
LS-RTRZ7-120-40K-2DS	4000K	10'	6140 lm	64.3 W	52	3.7 lb	F120T12

\* +/- 10%

\* Modules are connected in multiple parallel strings. The number of modules in each string should not exceed the specified limit under "Max # Modules per String".

\*\* 3 — 60 Watt Channels  
Note: LS-UMIN-YYY indicates colors



**12V RETRORAYZ® 500 SINGLE-SIDED ORDERING INFORMATION**

Part Number	Color Temp	Nominal Length	Light Output *	Wattage	# of LED Modules	Weight	Compatible FL Lamp
LS-RTRZ5-018-65K-2SS	6500K	1'6"	280 lm	2.5 W	2	0.4 lb	F18T12
LS-RTRZ5-018-50K-2SS	5000K	1'6"	280 lm	2.5 W	2	0.4 lb	F18T12
LS-RTRZ5-018-40K-2SS	4000K	1'6"	235 lm	2.5 W	2	0.4 lb	F18T12
LS-RTRZ5-024-65K-2SS	6500K	2'	420 lm	3.7 W	3	0.6 lb	F24T12
LS-RTRZ5-024-50K-2SS	5000K	2'	420 lm	3.7 W	3	0.6 lb	F24T12
LS-RTRZ5-024-40K-2SS	4000K	2'	355 lm	3.7 W	3	0.6 lb	F24T12
LS-RTRZ5-030-65K-2SS	6500K	2'6"	560 lm	5.0 W	4	0.7 lb	F30T12
LS-RTRZ5-030-50K-2SS	5000K	2'6"	560 lm	5.0 W	4	0.7 lb	F30T12
LS-RTRZ5-030-40K-2SS	4000K	2'6"	470 lm	5.0 W	4	0.7 lb	F30T12
LS-RTRZ5-036-65K-2SS	6500K	3'	700 lm	6.2 W	5	0.8 lb	F36T12
LS-RTRZ5-036-50K-2SS	5000K	3'	700 lm	6.2 W	5	0.8 lb	F36T12
LS-RTRZ5-036-40K-2SS	4000K	3'	590 lm	6.2 W	5	0.8 lb	F36T12
LS-RTRZ5-042-65K-2SS	6500K	3'6"	840 lm	7.4 W	6	1.0 lb	F42T12
LS-RTRZ5-042-50K-2SS	5000K	3'6"	840 lm	7.4 W	6	1.0 lb	F42T12
LS-RTRZ5-042-40K-2SS	4000K	3'6"	710 lm	7.4 W	6	1.0 lb	F42T12
LS-RTRZ5-048-65K-2SS	6500K	4'	980 lm	8.7 W	7	1.2 lb	F48T12
LS-RTRZ5-048-50K-2SS	5000K	4'	980 lm	8.7 W	7	1.2 lb	F48T12
LS-RTRZ5-048-40K-2SS	4000K	4'	825 lm	8.7 W	7	1.2 lb	F48T12
LS-RTRZ5-060-65K-2SS	6500K	5'	1260 lm	11.1 W	9	1.5 lb	F60T12
LS-RTRZ5-060-50K-2SS	5000K	5'	1260 lm	11.1 W	9	1.5 lb	F60T12
LS-RTRZ5-060-40K-2SS	4000K	5'	1060 lm	11.1 W	9	1.5 lb	F60T12
LS-RTRZ5-064-65K-2SS	6500K	5'4"	1400 lm	12.4 W	10	1.6 lb	F64T12
LS-RTRZ5-064-50K-2SS	5000K	5'4"	1400 lm	12.4 W	10	1.6 lb	F64T12
LS-RTRZ5-064-40K-2SS	4000K	5'4"	1180 lm	12.4 W	10	1.6 lb	F64T12
LS-RTRZ5-072-65K-2SS	6500K	6'	1540 lm	13.6 W	11	1.8 lb	F72T12
LS-RTRZ5-072-50K-2SS	5000K	6'	1540 lm	13.6 W	11	1.8 lb	F72T12
LS-RTRZ5-072-40K-2SS	4000K	6'	1300 lm	13.6 W	11	1.8 lb	F72T12
LS-RTRZ5-084-65K-2SS	6500K	7'	1820 lm	16.1 W	13	2.2 lb	F84T12
LS-RTRZ5-084-50K-2SS	5000K	7'	1820 lm	16.1 W	13	2.2 lb	F84T12
LS-RTRZ5-084-40K-2SS	4000K	7'	1535 lm	16.1 W	13	2.2 lb	F84T12
LS-RTRZ5-096-65K-2SS	6500K	8'	2100 lm	18.6 W	15	2.4 lb	F96T12
LS-RTRZ5-096-50K-2SS	5000K	8'	2100 lm	18.6 W	15	2.4 lb	F96T12
LS-RTRZ5-096-40K-2SS	4000K	8'	1770 lm	18.6 W	15	2.4 lb	F96T12
LS-RTRZ5-108-65K-2SS	6500K	9'	2380 lm	21.0 W	17	2.8 lb	F108T12
LS-RTRZ5-108-50K-2SS	5000K	9'	2380 lm	21.0 W	17	2.8 lb	F108T12
LS-RTRZ5-108-40K-2SS	4000K	9'	2005 lm	21.0 W	17	2.8 lb	F108T12
LS-RTRZ5-117-65K-2SS	6500K	9'9"	2660 lm	23.5 W	19	3.0 lb	F117T12
LS-RTRZ5-117-50K-2SS	5000K	9'9"	2660 lm	23.5 W	19	3.0 lb	F117T12
LS-RTRZ5-117-40K-2SS	4000K	9'9"	2240 lm	23.5 W	19	3.0 lb	F117T12
LS-RTRZ5-120-65K-2SS	6500K	10'	2660 lm	23.5 W	19	3.1 lb	F120T12
LS-RTRZ5-120-50K-2SS	5000K	10'	2660 lm	23.5 W	19	3.1 lb	F120T12
LS-RTRZ5-120-40K-2SS	4000K	10'	2240 lm	23.5 W	19	3.1 lb	F120T12

\* +/- 10%

\* Modules are connected in multiple parallel strings. The number of modules in each string should not exceed the specified limit under "Max # Modules per String".

\*\* 3 — 60 Watt Channels  
Note: LS-UMIN-yyy indicates colors

**12V RETRORAYZ® 700 SINGLE-SIDED ORDERING INFORMATION**

Part Number	Color Temp	Nominal Length	Light Output *	Wattage	# of LED Modules	Weight	Compatible FL Lamp
LS-RTRZ7-018-65K-2SS	6500K	1'6"	420 lm	3.7 W	3	0.5 lb	F18T12
LS-RTRZ7-018-50K-2SS	5000K	1'6"	420 lm	3.7 W	3	0.5 lb	F18T12
LS-RTRZ7-018-40K-2SS	4000K	1'6"	355 lm	3.7 W	3	0.5 lb	F18T12
LS-RTRZ7-024-65K-2SS	6500K	2'	700 lm	6.2 W	5	0.6 lb	F24T12
LS-RTRZ7-024-50K-2SS	5000K	2'	700 lm	6.2 W	5	0.6 lb	F24T12
LS-RTRZ7-024-40K-2SS	4000K	2'	590 lm	6.2 W	5	0.6 lb	F24T12
LS-RTRZ7-030-65K-2SS	6500K	2'6"	840 lm	7.4 W	6	0.8 lb	F30T12
LS-RTRZ7-030-50K-2SS	5000K	2'6"	840 lm	7.4 W	6	0.8 lb	F30T12
LS-RTRZ7-030-40K-2SS	4000K	2'6"	710 lm	7.4 W	6	0.8 lb	F30T12
LS-RTRZ7-036-65K-2SS	6500K	3'	980 lm	8.7 W	7	0.9 lb	F36T12
LS-RTRZ7-036-50K-2SS	5000K	3'	980 lm	8.7 W	7	0.9 lb	F36T12
LS-RTRZ7-036-40K-2SS	4000K	3'	825 lm	8.7 W	7	0.9 lb	F36T12
LS-RTRZ7-042-65K-2SS	6500K	3'6"	1260 lm	11.1 W	9	1.0 lb	F42T12
LS-RTRZ7-042-50K-2SS	5000K	3'6"	1260 lm	11.1 W	9	1.0 lb	F42T12
LS-RTRZ7-042-40K-2SS	4000K	3'6"	1060 lm	11.1 W	9	1.0 lb	F42T12
LS-RTRZ7-048-65K-2SS	6500K	4'	1400 lm	12.4 W	10	1.2 lb	F48T12
LS-RTRZ7-048-50K-2SS	5000K	4'	1400 lm	12.4 W	10	1.2 lb	F48T12
LS-RTRZ7-048-40K-2SS	4000K	4'	1180 lm	12.4 W	10	1.2 lb	F48T12
LS-RTRZ7-060-65K-2SS	6500K	5'	1820 lm	16.1 W	13	1.6 lb	F60T12
LS-RTRZ7-060-50K-2SS	5000K	5'	1820 lm	16.1 W	13	1.6 lb	F60T12
LS-RTRZ7-060-40K-2SS	4000K	5'	1535 lm	16.1 W	13	1.6 lb	F60T12
LS-RTRZ7-064-65K-2SS	6500K	5'4"	1960 lm	17.3 W	14	1.8 lb	F64T12
LS-RTRZ7-064-50K-2SS	5000K	5'4"	1960 lm	17.3 W	14	1.8 lb	F64T12
LS-RTRZ7-064-40K-2SS	4000K	5'4"	1650 lm	17.3 W	14	1.8 lb	F64T12
LS-RTRZ7-072-65K-2SS	6500K	6'	2100 lm	18.6 W	15	1.9 lb	F72T12
LS-RTRZ7-072-50K-2SS	5000K	6'	2100 lm	18.6 W	15	1.9 lb	F72T12
LS-RTRZ7-072-40K-2SS	4000K	6'	1770 lm	18.6 W	15	1.9 lb	F72T12
LS-RTRZ7-084-65K-2SS	6500K	7'	2520 lm	22.3 W	18	2.3 lb	F84T12
LS-RTRZ7-084-50K-2SS	5000K	7'	2520 lm	22.3 W	18	2.3 lb	F84T12
LS-RTRZ7-084-40K-2SS	4000K	7'	2125 lm	22.3 W	18	2.3 lb	F84T12
LS-RTRZ7-096-65K-2SS	6500K	8'	2940 lm	26.0 W	21	2.6 lb	F96T12
LS-RTRZ7-096-50K-2SS	5000K	8'	2940 lm	26.0 W	21	2.6 lb	F96T12
LS-RTRZ7-096-40K-2SS	4000K	8'	2480 lm	26.0 W	21	2.6 lb	F96T12
LS-RTRZ7-108-65K-2SS	6500K	9'	3220 lm	28.5 W	23	2.9 lb	F108T12
LS-RTRZ7-108-50K-2SS	5000K	9'	3220 lm	28.5 W	23	2.9 lb	F108T12
LS-RTRZ7-108-40K-2SS	4000K	9'	2715 lm	28.5 W	23	2.9 lb	F108T12
LS-RTRZ7-117-65K-2SS	6500K	9'9"	3640 lm	32.2 W	26	3.1 lb	F117T12
LS-RTRZ7-117-50K-2SS	5000K	9'9"	3640 lm	32.2 W	26	3.1 lb	F117T12
LS-RTRZ7-117-40K-2SS	4000K	9'9"	3070 lm	32.2 W	26	3.1 lb	F117T12
LS-RTRZ7-120-65K-2SS	6500K	10'	3640 lm	32.2 W	26	3.2 lb	F120T12
LS-RTRZ7-120-50K-2SS	5000K	10'	3640 lm	32.2 W	26	3.2 lb	F120T12
LS-RTRZ7-120-40K-2SS	4000K	10'	3070 lm	32.2 W	26	3.2 lb	F120T12

\* +/- 10%

\* Modules are connected in multiple parallel strings. The number of modules in each string should not exceed the specified limit under "Max # Modules per String".

\*\* 3 — 60 Watt Channels  
Note: LS-UMIN-yyy indicates colors

# CONSTANT VOLTAGE POWER SUPPLIES





HIGH PERFORMANCE AND RELIABLE FOR OUTDOOR APPLICATIONS



AVAILABLE IN US



## UL CLASS 2 CLASSIC LINE 12V DC POWER SUPPLIES

UL CLASS 2 Classic Line 12V DC				
Product Description	SLIM 60W*	STANDARD 60W	ENCLOSURE 60W	3-CHANNEL 180W*
Part Number	PS12-60WSL-100-277V	PS12-60W-100-277V	PS12-60W-100-277V-ENC	PS12-180W-3-A
AC Input Voltage	100 - 277V AC 50/60 Hz			
# of DC Output Channels	1			3
Max DC Output Current	5 A			15 A (5 A / channel)
Max DC Output Power	60 W			180 W (60 W / channel)
Dimensions (L x W x H)	10.70" x 1.68" x 1.35" 272 x 42.7 x 34.3 mm	6.97" x 2.66" x 1.46" 177 x 67.5 x 37 mm	10.90" x 3.23" x 2.03" 279 x 82 x 51.6 mm	9.71" x 3.47" x 1.50" 247 x 88 x 38 mm
IP Rating	IP67	IP67	IP68	IP67

## UL CLASS 2 CLASSIC LINE 12V DC POWER SUPPLIES

UL CLASS 2 SLIMLINE 12V DC			
Product Description	SLIMLINE 15W	SLIMLINE 35W	SLIMLINE 60W
Part Number	PS12-SL-15W-120-277V	PS12-SL-35W-120-277V	PS12-SL-60W-120-277V
AC Input Voltage	108 - 305V AC 50/60 Hz		
# of DC Output Channels	1		
Max DC Output Current	1.25 A	2.92 A	5 A
Max DC Output Power	15 W	35 W	60 W
Dimensions (L x W x H)	5.71" x 1.57" x 0.83" 145 x 40 x 21 mm	6.69" x 1.57" x 0.83" 170 x 40 x 21 mm	9.45" x 1.57" x 0.83" 240 x 40 x 21 mm
IP Rating	IP67		



### ▶ CLASSIC LINE

GENLED AgiLight®'s Classic Line power supplies feature a wide AC input voltage range 100-277V, with an excellent derating performance at high ambient temperatures, ensuring the full load capacity and long lifetime within rated operating temperature range up to +140°F (+60°C).

Built with multiple protection functions, the Classic Line power supplies are robust and highly reliable for outdoor signage applications.



### ▶ SLIMLINE

The newly introduced SLIMLINE power supplies feature a low profile, at 0.83" (21mm) height and 1.57" (40mm) width. Their low profile drastically reduces the potential for creating shadows on the face.



\*Enclosure 60W is IP68



Distributed by:  Polymershapes







### UL CLASS 1 CLASSIC LINE 12V DC

<b>UL CLASS 1 Classic Line 12V DC</b>			
<b>Product Description</b>	<b>100W</b>	<b>150W</b>	<b>220W</b>
<b>Part #</b>	PS12-100W-100-277V	PS12-150W-100-277V	PS12-220W-100-277V
<b>AC Input Voltage</b>	100 - 277V AC 50/60 Hz		
<b># of DC Output Channels</b>	2		3
<b>Max DC Output Current</b>	8.33 A (4.17 A / channel)	12. 50 A (6.25 A / channel)	18.33 A (6.11 A / channel)
<b>Max DC Output Power</b>	100 W (50 W / channel)	150 W (75 W / channel)	220 W (73 W / channel)
<b>Dimensions (L x W x H)</b>	8.31" x 2.66" x 1.44" 211 x 68 x 37 mm	8.9" x 2.66" x 1.56" 226 x 68 x 40 mm	9.88" x 3.46" x 1.28" 251 x 88 x 33 mm
<b>IP Rating</b>	IP67		

### UL CLASS 1 SLIMLINE 12V DC

<b>UL CLASS 1 SLIMLINE 12V DC</b>		
<b>Product Description</b>	<b>SLIMLINE 100W</b>	<b>SLIMLINE 180W</b>
<b>Part Number</b>	PS12-SL-100W-120-277V	PS12-SL-180W-120-277V
<b>AC Input Voltage</b>	120-277V AC 50/60 Hz	
<b># of DC Output Channels</b>	1	
<b>Max DC Output Current</b>	8.33 A	15 A
<b>Max DC Output Power</b>	100W	180W
<b>Dimensions (L x W x H)</b>	10.63" x 1.57" x 0.91" 270 x 40 x 23 mm	10.63" x 2.36" x 1.14" 270 x 60 x 29 mm
<b>IP Rating</b>	IP67	

### CONSTANT VOLTAGE 24V DC POWER SUPPLIES

	<b>Classic Line</b>	<b>SLIMLINE</b>		
<b>24V DC</b>	<b>UL CLASS 2</b>	<b>UL CLASS 2</b>	<b>UL CLASS 2</b>	<b>UL CLASS 1</b>
				
<b>Product Description</b>	<b>STANDARD 96W</b>	<b>SLIMLINE 60W</b>	<b>SLIMLINE 96W</b>	<b>SLIMLINE 180W</b>
<b>Part Number</b>	PS24-96W-100-277V	PS24-SL-60W-120-277V	PS24-SL-96W-120-277V	PS24-SL-180W-120-277V
<b>AC Input Voltage</b>	100-277V AC 50/60 Hz	120-277V AC 50/60 Hz		120-277V AC 50/60 Hz
<b># of DC Output Channels</b>	1			
<b>Max DC Output Current</b>	4 A	2.50 A	4 A	7.50 A
<b>Max DC Output Power</b>	96W	60W	96W	180W
<b>Dimensions (L x W x H)</b>	6.97" x 2.66" x 1.46" 177 x 68 x 37 mm	9.45" x 1.57" x 0.83" 240 x 40 x 21 mm	10.63" x 1.57" x 0.91" 270 x 40 x 23 mm	9.65" x 2.36" x 1.14" 245 x 60 x 29 mm
<b>IP Rating</b>	IP67			

# CONSTANT VOLTAGE POWER SUPPLIES

HIGH PERFORMANCE AND RELIABLE FOR OUTDOOR APPLICATIONS



AVAILABLE IN EU



## ▶ CLASSIC LINE

GENLED AgiLight®'s Classic Line power supplies feature a wide AC input voltage range 100-277V, with an excellent derating performance at high ambient temperatures, ensuring the full load capacity and long lifetime within rated operating temperature range up to +140°F (+60°C).

Built with multiple protection functions, the Classic Line power supplies are robust and highly reliable for outdoor signage applications.

**IP67** **SELV** **RoHS**

## ▶ TALEXXdriver LCU

LED light sources come in an extremely wide range of shapes and sizes, providing a high degree of flexibility in both luminaire design and illuminated signage.

To take account of this flexibility in terms also of the LED driver, designers focused on achieving small dimensions when developing the new constant voltage LED driver in the LCU IP67 product series, without compromising on the traditional robustness and durability. The LCU LED driver series is setting new standards in compactness.

**IP67** **RoHS**

## 12V DC POWER SUPPLIES

UL CLASS 2 Classic Line 12V DC			
Product Description	SLIM 60W	STANDARD 60W	
Part Number	PS12-60WSL-100-277V	PS12-60W-100-277V	
AC Input Voltage	100 - 277V AC 50/60 Hz		
# of DC Output Channels	1		
Max DC Output Current	5 A		
Max DC Output Power	60 W		
Dimensions (L x W x H)	272 x 42.7 x 34.3 mm	177 x 67.5 x 37 mm	
IP Rating	IP67	IP67	
AC Input 1/2 NPT Thread Connector	Yes	No	
12V DC			
Product Description	LCU 15W 12V IP67 TOP	LCU 35W 12V IP67 TOP	LCU 60W 12V IP67 TOP
Part Number	28000507	28000508	28000509
AC Input Voltage	100 - 277V AC 50/60 Hz		
# of DC Output Channels	1		
Max DC Output Current	1.25 A	2.92 A	5 A
Max DC Output Power	15 W	35 W	60 W
Dimensions (L x W x H)	145 x 40 x 21 mm	170 x 40 x 21 mm	240 x 40 x 21 mm
IP Rating	IP67		
AC Input 1/2 NPT Thread Connector	No		




## 12V DC POWER SUPPLIES

UL CLASS 1 Classic Line 12V DC			
Product Description	100W	150W	220W
Part Number	PS12-100W-100-277V	PS12-150W-100-277V	PS12-220W-100-277V
AC Input Voltage	100 - 277V AC 50/60 Hz		
# of DC Output Channels	2		3
Max DC Output Current	8.33 A (4.17 A / channel)	12.50 A (6.25 A / channel)	18.33 A (6.11 A / channel)
Max DC Output Power	100 W (50 W / channel)	150 W (75 W / channel)	220 W (73 W / channel)
Dimensions (L x W x H)	211 x 68 x 37 mm	226 x 68 x 40 mm	251 x 88 x 33 mm
IP Rating	IP67		
AC Input 1/2 NPT Thread Connector	No		

12V DC				ESSENCE	
Product Description	LCU 100W 12V IP67 TOP	LCU 180W 12V IP67 TOP	LED 0010 K301 230-240/12V 10VA	LC 60W 12V IP66 slim SNC	LC 100W 12V IP66 slim SNC
Part Number	28000510	28000511	86456206	28001026	28001027
AC Input Voltage	120-277V AC 50/60 Hz		200-254V AC 50/60 Hz	220-240 VAC 50/60 Hz	
# of DC Output Channels	1				
Max DC Output Current	8.33 A	15 A	N/A	5.0 A	8.33 A
Max DC Output Power	100W	180W	10W	60W	100W
Dimensions (L x W x H)	270 x 40 x 23 mm	270 x 60 x 29 mm	182 x 20 x 20 mm	230.5 x 42.5 x 32 mm	230.5 x 49 x 37 mm
IP Rating	IP67		IP65	IP66	
AC Input 1/2 NPT Thread Connector	No				

## 24V DC POWER SUPPLIES

24V DC	UL CLASS 2 	UL CLASS 2 	UL CLASS 1 
Product Description	LED 0010 K301 230-240/24V 10VA	LC 60W 24V IP66 slim SNC	LC 100W 24V IP66 slim SNC
Part Number	86456215	28001028	28001029
AC Input Voltage	90-305V AC 50/60 Hz	108-305V AC 50/60 Hz	108-305V AC 50/60 Hz
# of DC Output Channels	1		
Max DC Output Current	2.50 A	4 A	7.50 A
Max DC Output Power	60W	96W	180W
Dimensions (L x W x H)	240 x 40 x 21 mm	270 x 40 x 21 mm	245 x 60 x 29 mm
IP Rating	IP67		
AC Input 1/2 NPT Thread Connector	No		

24V DC	UL CLASS 2 	UL CLASS 2 	UL CLASS 1 
Product Description	LCU 60W 24V IP67 TOP	LCU 96W 24V IP67 TOP	LCU 180W 24V IP67 TOP
Part Number	28000512	28000513	28000514
AC Input Voltage	90-305V AC 50/60 Hz	108-305V AC 50/60 Hz	108-305V AC 50/60 Hz
# of DC Output Channels	1		
Max DC Output Current	2.50 A	4 A	7.50 A
Max DC Output Power	60W	96W	180W
Dimensions (L x W x H)	240 x 40 x 21 mm	270 x 40 x 21 mm	245 x 60 x 29 mm
IP Rating	IP67		
AC Input 1/2 NPT Thread Connector	No		

12 V POWER SUPPLY LOADING CHART

12 VDC LED Module Part Number	Module Wattage (W)	Module Current (A)	Max # Modules per String	Total Number of Modules per Power Supply								Module Spacing (in)	# of Modules per foot	Module spacing (mm)	# of Modules per meter
				UL CLASS 2				UL CLASS 1							
				15W	35W	60W*	180W**	100W*	150W*	180W*	220W*				
LS-APEX-xxx-G2	1.2	0.1	48	11	27	48	144	75	112	135	165	6.0"	2	152	6.56
LS-APEX-xxx-G3	1.12	0.093	50	12	29	50	150	80	120	145	176	6.0"	2	152	6.56
LS-BASE-xxx-G2	0.43	0.036	126	32	75	126	378	209	315	376	460	6.0"	2	152	6.56
LS-COLOR-BL-G2	0.48	0.04	95	28	67	120	360	192	288	345	422	6.0"	2	153	6.56
LS-COLOR-GR-G2	0.42	0.035	65	33	77	131	393	214	322	386	474	6.0"	2	152	6.56
LS-COLOR-OR-G2	0.66	0.055	90	21	49	90	270	137	204	246	300	6.0"	2	152	6.56
LS-COLOR-RR-G2	0.48	0.04	95	28	67	120	360	192	288	345	422	6.0"	2	152	6.56
LS-COLOR-TR-G2	0.48	0.04	95	28	67	120	360	192	288	345	422	6.0"	2	152	6.56
LS-COLOR-YE-G2	0.66	0.055	90	21	49	90	270	137	204	246	300	6.0"	2	102	6.56
LS-CORE-xxx-G2	0.43	0.036	126	32	75	126	378	209	315	376	460	4.0"	3	102	9.84
LS-CORE-xxx-G3	0.78	0.065	70	18	41	70	210	115	173	208	254	6.0"	2	152	6.56
LS-PRO115-xxx-2G3	0.48	0.04	115	29	67	115	345	188	281	339	414	6.0"	2	152	6.56
LS-PRO115-xxx-2L1	0.54	0.045	102	25	60	102	306	166	250	300	366	6.0"	2	152	6.56
LS-PRO160-xxx-1G3A	0.78	0.065	70	18	41	70	210	115	173	208	254	9.8"	1.22	250	4
LS-PRO160-xxx-2B1C	0.78	0.065	70	18	41	70	210	115	173	208	254	6.6"	2	168	6
LS-PRO215-xxx-2G3C	1.06	0.065	52	13	30	52	156	85	128	153	186	6.6"	2	168	6
LS-PRO260-xxx-1G3B	1.32	0.11	44	10	24	44	132	68	102	123	150	9.8"	1.22	250	4
LS-PRO260-xxx-2B1C	1.32	0.11	44	10	24	44	132	68	102	123	150	6.6"	2	168	6
LS-PRO260-xxx-2G3B	1.32	0.11	44	10	24	44	132	68	102	123	150	6.6"	2	168	6
LS-PRO260-xxx-2L3B	1.32	0.11	44	10	24	44	132	68	102	123	150	6.6"	2	168	6
LS-PROCLR-BLU-2B5	0.48	0.04	100	28	66	112	336	188	280	336	412	6.0"	2	152	6.56
LS-PROCLR-GRN-2B5	0.48	0.04	100	28	66	112	336	188	280	336	412	6.0"	2	152	6.56
LS-PROCLR-TRD-2B5	0.48	0.04	100	28	66	112	336	188	280	336	412	6.0"	2	152	6.56
LS-PROCLR-YLW-2B5	0.6	0.05	80	23	54	92	276	150	224	270	330	6.0"	2	152	6.56
LS-PROMIN-xxx-3L1	0.336	0.028	120	41	96	162	486	267	400	480	590	4.0"	3	102	9.84
LS-UMIN-xxK-L4-35A	0.24	0.02	180	58	134	230	690	383	575	690	843	1.32"	9.1	33.5	30
LS-UMIN-xxK-L4-50A	0.24	0.02	150	58	134	230	690	383	575	690	843	1.97"	6.1	50	20
LS-UMIN-yyy-L4-35A	0.12	0.01	245	115	267	460	1380	750	1130	1350	1650	1.32"	9.1	33.5	30
LS-UMIN-yyy-L4-50A	0.12	0.01	200	115	267	460	1380	750	1130	1350	1650	1.97"	6.1	50	20
LS-U430-xxx-B100-A	0.30	0.25	175	46	107	184	552	300	450	540	660	4.0"	3	100	10
LS-U450-xxx-B150-A	0.48	0.40	110	28	67	115	345	187	281	337	412	6.0"	2	150	7
LS-U470-xxx-B150-A	0.66	0.55	80	20	48	83	249	136	204	245	300	6.0"	2	150	7
LS-U650-xxx-B200-A	0.78	0.065	67	17	41	70	210	115	173	207	253	8.0"	5	200	5
LS-U670-xxx-B250-A	1.24	0.103	43	11	26	44	132	72	109	131	160	10.0"	4	250	4
LS-UEDGE-xxx-E170-A	2.04	0.170	26	6	15	27	81	44	66	79	97	6.6"	2	270	6

\* Modules are connected in multiple parallel strings. The number of modules in each string should not exceed the specified limit under "Max # Modules per String."  
 \*\* 3 – 60 Watt Channels  
 Note: LS-UMIN-yyy indicates colors

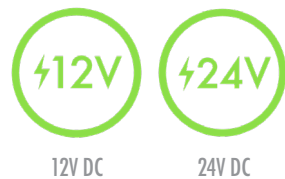
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SignRayz® PRO COLOR Blue 2B4  
 Cove Lighting  
 LS-PROCLR-BLU-2B5



# LNU DIMMING CONTROL

## WITH twilightCONTROL



# WIRING GAUGE CHART

With the built-in light sensor, the LNU dimmers automatically adjust the sign face brightness based on the outdoor ambient light level, saving an additional 40-60% energy for sign operation and reducing light pollution at night.

The LNU dimmers can be applied in either 12V or 24V DC LED systems. They are easy to install and maintain: simply connect in between LED modules and power supplies. (See ordering guide below)

The Master Unit (LNU-M) is built into the sign. It contains the light sensor to detect ambient light level and determine the LED modules' light output accordingly. One LNU Master unit can synchronize up to 19 Sub units (LNU-S):

- Fewer dimmers to install
- No timer needed
- No photocells
- Controller is built into the letter at the factory

LNU Dimming Control	LNU M Master Unit	LNU S Sub Unit	LNU I Interface Unit
<b>Part Number</b>	28000018	28000050	28000163
<b>DC Input Voltage</b>	12V / 24V DC	12V / 24V DC	5V USB
<b>DC Input Current</b>	≤ 15 A	≤ 15 A	50 mA
<b>DC Output Voltage</b>	12V / 24V DC	12V / 24V DC	N/A
<b># of DC Output Channels</b>	3 x PWM	3 x PWM	N/A
<b>DC Output Current</b>	≤ 5A/ Channel	≤ 5A/ Channel	N/A
<b>PWIM Frequency</b>	495 Hz	495 Hz	N/A
<b>DC Voltage Drop</b>	≤ 150 mV	≤ 150 mV	N/A
<b>Dimming Range twilightCONTROL</b>	0-98% (Default 30-98%)		N/A
<b>Dimensions (L x W x H)</b>	5.55" x 1.57" x 0.83" (141 x 40 x 21 mm)		2.09" x 1.91" x 0.51" (53 x 49 x 13 mm)
<b>Operating Temperature</b>	-40°C to +60°C (-40°F to +140°F)		0°C to +50°C (32°F to +122°F)
<b>IP Rating</b>	IP67		IP20

### LED MODULE TO POWER SUPPLY WIRE SIZE

Wire Size		Maximum Distance*	
Gauge (AWG)	Metric (mm <sup>2</sup> )	Feet	Meters
26	0.13	3	0.9
24	0.21	4	1.2
22	0.33	7	2.1
20	0.52	11	3.4
18	0.82	18	5.5
16	1.31	29	8.8
14	2.08	45	13.7
12	3.31	71	21.6
10	5.26	120	36.6

\*Distance from power supply to 100% load

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