



**GEN
LED** **AGILIGHT**[®]
Innovative Signage Lighting

PRODUCT CATALOG



jetBlue

INDEX



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INTRODUCTION

About AgiLight	4
Applications	7
High Standards	8
Color Temperature	10

PRODUCTS

ULTRA Series	12
ULTRA 600 Series	14
ULTRA 650 Color	16
ULTRA 400 Series	18
ULTRA EDGE	22
ULTRA EDGE HO	24
ULTRA MINI White/Color	26
12V Power Supply Loading Chart	29
PRO Premium Series	30
LyteRayz® Series	34
LRZ1, LRZ2, LRZ3, LRZ4, LRZ3 RGB	36
LyteRayz® Mini White	38
LyteRayz® Mini Color	39
BoxRayz® LED Systems	40
BoxRayz® 3.0	42
BoxRayz® EDGE 3.0	44
RibbonRayz® LED Light Tape	46
LineRayz® Border Tube	48
RetroRayz® LED Light Bars	50
RetroRayz® 500 Double-Sided	51
RetroRayz® 500 Single-Sided	52
RetroRayz® 700 Double-Sided	53
RetroRayz® 700 Single-Sided	54
Power Supplies	55
12V Power Supplies	56
24V Power Supplies	57

CONNECT

AgiLight Support	58
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ABOUT AGILIGHT



HERE TO HELP YOU SHINE

AgiLight is a global leader in the LED signage lighting industry and the preferred partner of great sign companies and brands around the world. Our primary goal is to bring value to our customers by enhancing and maintaining their brand image through the benefits of our LED solutions. The expansive AgiLight product portfolio offers the desired lighting solution for any sign application.

INNOVATIVE TECHNOLOGY

Constant innovation provides AgiLight customers with an unparalleled value proposition in signage illumination. We continually bring technically advanced yet easy-to-use products and improvements to the market. Our cutting-edge VersaLenz[®], ONEWhite[®] and Capzul[®] technologies have propelled us into an industry-leading position, providing superior optics, incredibly consistent light and stellar protection against the elements.

GREAT LIGHT AND GREAT SAVINGS

Our premium LED systems actually create savings for signmakers and end users. Custom AgiLight lighting solutions significantly reduce the number of modules and power supplies needed per sign, providing energy and labor cost savings, while the quality and reliability of our products ensure low maintenance costs throughout a sign's lifetime.

CUSTOMER SERVICE

Responsiveness is our strength. Our LED signage lighting experts directly help customers achieve their desired sign illumination with the lowest total cost of ownership. From understanding the complex needs of specific configurations and sign-face materials to selecting the most suitable LED modules for a project, AgiLight pros work step-by-step with our customers to optimize lighting solutions for their brand images. Our international team of experts and top-flight distribution network are always ready to respond, anywhere around the globe.

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 team that sets us apart from our competitors. We design a premium product and stand by the reliability of our work. We control each step of production from start to finish and our products are rigorously tested and qualified under the toughest weather conditions. AgiLight was 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 6,000 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.



APPLICATIONS

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

CHANNEL LETTERS

Whether they are narrow or wide, deep or ultra-shallow, we offer a solution that meets your channel letter lighting needs. Our ULTRA Series LED modules are IP68 rated for outdoor use in the toughest conditions, including the ULTRA MINI – the smallest waterproof LED module on the market! With a variety of color temperatures and color options to evenly illuminate your signs, our LED pros guarantee to make your brand pop, rain or shine!

HALO LIGHTING

Looking to create a little ambience? Leading companies from around the world backlight their signage with brilliant halo lighting effects from our long line of premium products.

CABINET SIGNS

Increase the product life of your cabinet signs with single- or double-sided RetroRayz® LED light bars from AgiLight. A quick, easy retrofit installation will have you saving energy – and money – with our cutting-edge LED technology.

LIGHT BOXES

Make your business stand out from the crowd with our BoxRayz® and BoxRayz® EDGE LED solutions. Evenly illuminate any light box with your desired level of brightness, regardless of size or depth.

ACCENT LIGHTING

Highlight your building, brand or unique signage with LED accents. See how you can use our IP68-rated RibbonRayz® to lend a touch of class to any business.

HIGH STANDARDS

We pride ourselves on the quality of our LED products. AgiLight was one of the first LED signage manufacturers to adopt the Solid State Lighting Quality and Reliability Technical Standards, and we carefully control each step of the production cycle. Our in-house engineering team helps

set us apart as a market leader, ensuring that our LEDs shine through rigorous independent testing for brightness, safety, consistency, ingress protection and reliability. We back our products with industry-leading guarantees and warranty plans and provide stellar customer service around the globe.

CERTIFICATIONS

IP20 The Ingress Protection rating measures a component for vulnerability. The first number (from lowest: 1 to highest: 6) measures how well a component protects against the ingress of solid objects such as dust. The second number (from lowest: 1 to highest: 8) measures how well a component is protected from immersion in water. IP20, for instance, would be protected against larger solid items but not water. IP68 would be dust-resistant and protected in water up to 1.5 meters deep for half an hour.

UL This is the Underwriters Laboratories (UL) recognized component mark signifying compliance with Canadian and U.S. requirements.

UL LISTED This mark means a product was manufactured in compliance with UL safety requirements for Canada and the U.S.

ENEC The ENEC mark certifies that a product complies with the European Norms Electrical Certification safety standards.

CE The CE certification mark indicates conformity with health, safety and environmental protection standards for products that are manufactured or sold within the European Economic Area.

RoHS The RoHS certification mark shows that a product meets the standards for the Restriction of Hazardous Substances Directive, which restricts the use of hazardous materials in electrical equipment.

LM-79 This mark certifies a product met the Illuminating Engineers Society North America (IESNA) approved testing method to generate electrical and photometric measurements of solid state lighting (LED) products.

LM-80 This mark certifies a product met the Illuminating Engineers Society North America (IESNA) approved testing method to measure the lumen maintenance of LED packages, arrays, and modules at various temperatures.

SYMBOLS OF QUALITY

ONEWHITE® COLOR CONSISTENCY
We carefully measure the color output of all our LED modules. AgiLight employs three-step MacAdam ellipse binning, so any color variance in our LEDs is indistinguishable to the human eye. Our ONEWhite® guarantee means that our white lights will match – no matter where in the world they are ordered.

VERSALENZ® ADVANCED OPTICS
Specially designed lenses provide greater design flexibility for ultra-thin channel letters and box signs, and improved light coverage that reduces the number of LED modules needed in larger signs. VersaLenz® Advanced Optics provide optimum beam patterns and clarity for your LED lights.

CAPZUL® WATERPROOF TECHNOLOGY
Our proprietary Capzul® Waterproof Technology keeps your LEDs safe and dry. Our premium products sport an IP68 rating, which means contaminants like dust and water just can't get inside. Capzul® Waterproof Technology maintains the integrity of our lighting solutions.

50,000 HRS L70 LIFETIME
An LED's projected lifetime is measured by industry standards for the lamp lumen maintenance factor. The time it takes until a light's output reaches 70% of its original output is known as L70. Our industry-leading LED modules have a minimum expected L70 lifetime of 50,000 hours.

AVAILABLE IN EU
As a global company, AgiLight needs to ensure that its products work with different electrical current standards around the world. Products with this symbol are available in – and meet the safety standards of – countries within the European Union.

RETROFIT
It may be time to update an old lighting fixture. AgiLight offers a number of simple retrofit solutions that allow you to replace an aging light with a modern LED solution. Retrofitting to LED technology often improves lighting and conserves energy.

UV RESISTANT
Our products resist sunlight and ultraviolet light. Our premium LED modules are designed to prevent discoloration or fading with exposure to UV light.

CONSTANT CURRENT
Most of our products use constant voltage drivers but have integrated circuits, so our modules are constant current. This gives us uniform lumen output for the length of any string, from the first module to the last.

VOLTAGE
Different LED products are designed to work at different voltages. Some LED systems work with 12-volt electrical systems and some work with 24-volt systems. Lower voltage systems allow for smaller cut lengths in LED strips; higher voltage systems often provide maximum efficiency. Be sure to select the appropriate power supply for your LED system.

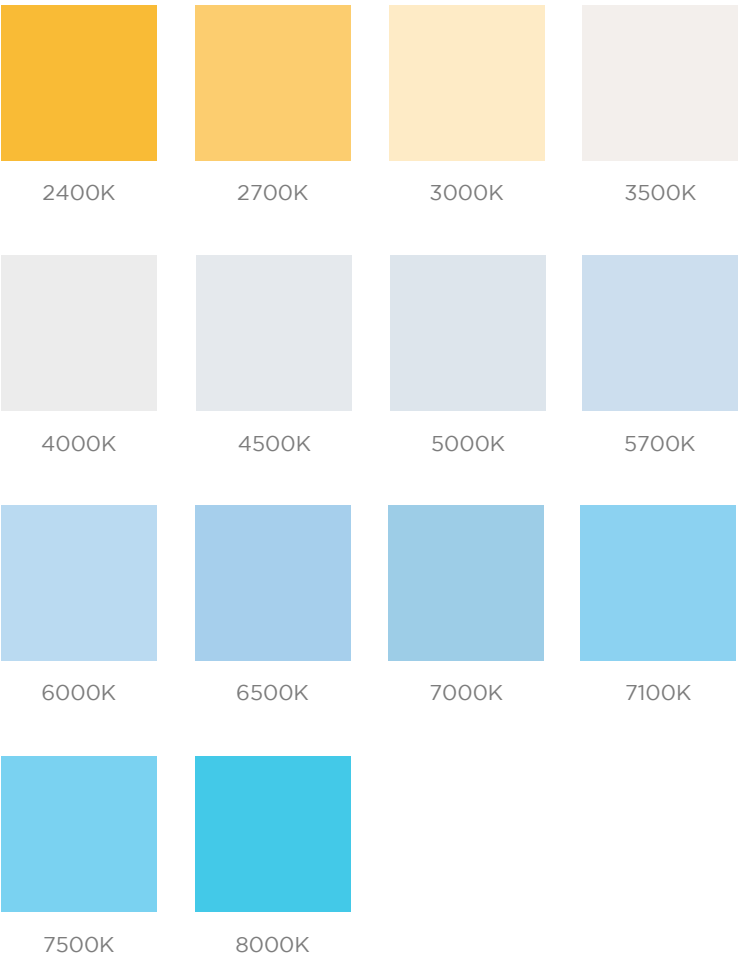
WARRANTY MARKS
AgiLight proudly stands behind the quality and reliability of its LED signage lighting modules and power supplies. We offer a warranty on every product we sell, ranging from three years to nine years for our premium products.

COLOR TEMPERATURE

FROM WARM TO COOL

The term “color temperature” can be confusing. A light’s temperature is measured on the Kelvin (K) scale, ranging from 1,000 to 10,000. On the Kelvin scale, a lower temperature is considered to be “warmer” – so a white light that measures 2700K will be almost orange or amber, giving the feel of candlelight, while a white light that measures 5000K gives the feel of daylight. Higher Kelvin temperatures feel “cooler” – giving off a blue light.

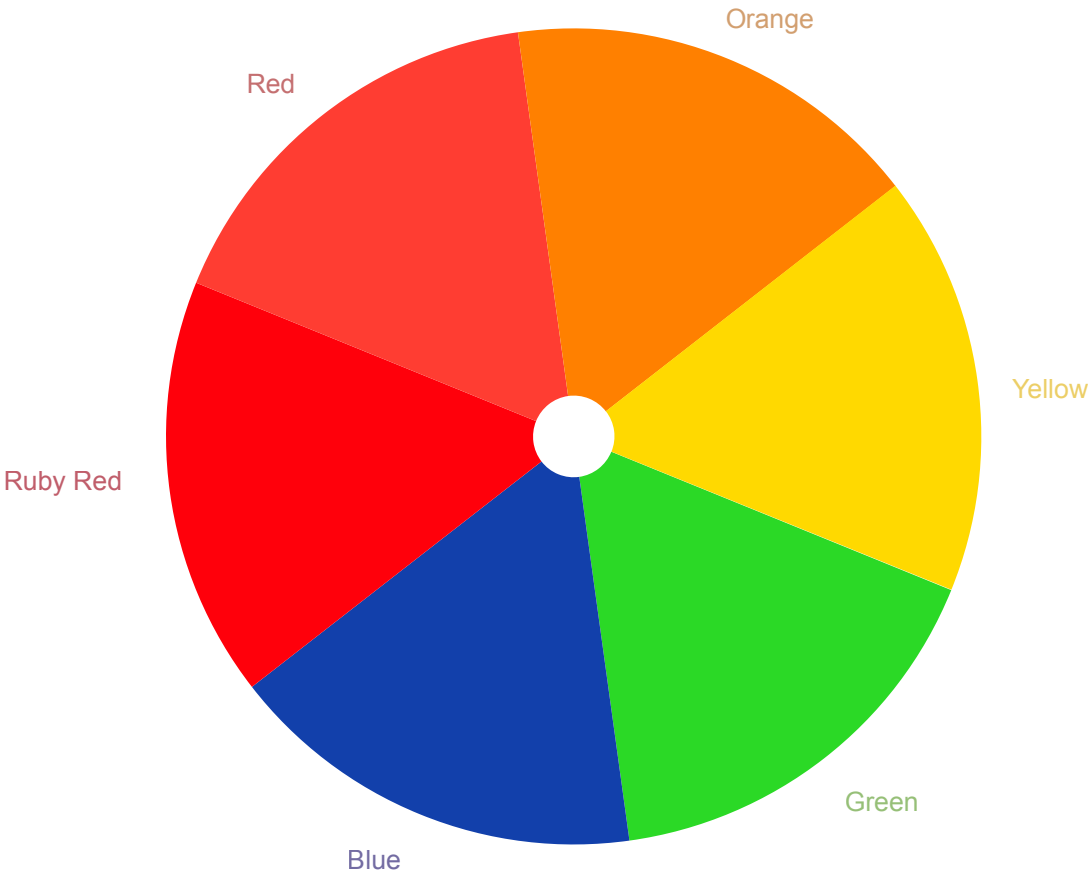
AgiLight offers its products in a number of specific temperatures – all tested for consistency and durability.



STATIC COLORS

CONTROL THE RAINBOW

Premium AgiLight products such as the ULTRA MINI and ULTRA 650 COLOR modules can be used for custom signage lighting. We measure all of our color LED modules for color fidelity.



BINNING

Binning is a way of sorting LEDs so that they have a similar color output. AgiLight uses a three-step MacAdam ellipse binning process for white LEDs, limiting variances so that our LEDs will have consistent color temperatures throughout your order – and in any future orders.

ULTRA SERIES

Premium LED Modules For Box Signs And Channel Letters

ULTRA 600

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

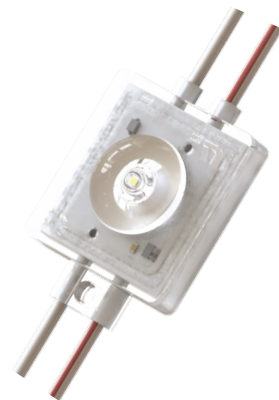
- Channel letters
- Box signs
- Cove lighting
- Applications starting at 3 in. (76 mm) depth



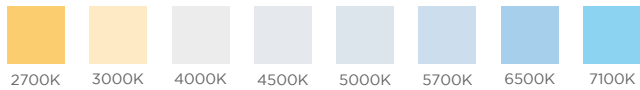
ULTRA 400

This comprehensive option for backlit applications is available in three lumen outputs and for super-low profiles at a 1.2 in. (30 mm) to 4 in. (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.

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



ULTRA 600 SERIES





LM-80

LM-79

IP68



9Yr



- Channel letters
 - Box signs
 - Cove lighting
- Applications starting at 3 in. (75 mm) depth



ULTRA 600 Specs

Module	Dimensions (L x W x H)		Module Spacing		Number of Modules	
ULTRA 650			8 in.	200 mm	1.5 per ft	5 per m
ULTRA 670	1.89 x 0.47 x 0.35 in.	48 x 12 x 8.8 mm	8 in.	200 mm	1.5 per ft	5 per m
			9.8 in.	250 mm	1.2 per ft	4 per m

ULTRA 650 Ordering Guide

ULTRA 650					
Wattage: 0.78 W Nominal	60W PS Load: 70 Modules	Current: 0.065 A/Module	Nominal Light Output (lm): ³ 10%		
Part Number	Module Spacing (mm)	Color Temp.	Lumens/Module	Lumens/ft	Lumens/m
LS-U650-71K-B200-A	200	7100K	100	150	500
LS-U650-65K-B200-A	200	6500K	100	150	500
LS-U650-57K-B200-A	200	5700K	100	150	500
LS-U650-50K-B200-A	200	5000K	100	150	500
LS-U650-45K-B200-A	200	4500K	92	138	460
LS-U650-40K-B200-A	200	4000K	92	138	460
LS-U650-30K-B200-A	200	3000K	85	128	425
LS-U650-27K-B200-A	200	2700K	85	128	425

ULTRA 650 Population Density Guide* (in. | mm)

ULTRA 650				
Channel Depth	Single Stroke	Module Spacing	Multiple Row Spacing	Module Spacing
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

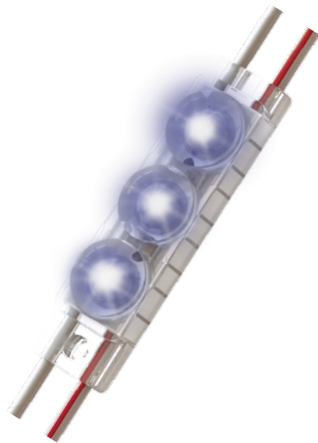
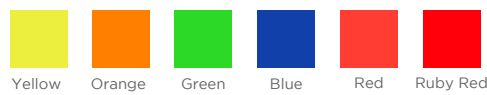
ULTRA 670					
Wattage: 1.24 W Nominal	60W PS Load: 44 Modules	Current: 0.103 A/Module	Nominal Light Output (lm): ³ 10%		
Part Number	Module Spacing (mm)	Color Temp.	Lumens/Module	Lumens/ft	Lumens/m
LS-U670-71K-B250-A	250	7100K	150	180	600
LS-U670-65K-B250-A	250	6500K	150	180	600
LS-U670-57K-B250-A	250	5700K	150	180	600
LS-U670-50K-B250-A	250	5000K	150	180	600
LS-U670-45K-B250-A	250	4500K	138	166	552
LS-U670-40K-B250-A	250	4000K	138	166	552
LS-U670-30K-B250-A	250	3000K	127	155	508
LS-U670-27K-B250-A	250	2700K	127	155	508
LS-U670-71K-B200-A	200	7100K	150	225	750
LS-U670-65K-B200-A	200	6500K	150	225	750
LS-U670-57K-B200-A	200	5700K	150	225	750
LS-U670-50K-B200-A	200	5000K	150	225	750
LS-U670-45K-B200-A	200	4500K	138	207	690
LS-U670-40K-B200-A	200	4000K	138	207	690
LS-U670-30K-B200-A	200	3000K	127	191	635
LS-U670-27K-B200-A	200	2700K	127	191	635

ULTRA 670 Population Density Guide* (in. | mm)

ULTRA 670				
Channel Depth	Single Stroke	Module Spacing	Multiple Row Spacing	Module Spacing
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.

ULTRA 650 COLOR



Vividly illuminate your sign with our new ULTRA 650 COLOR LED modules. With its sleek design and higher lumen output, the new ULTRA 650 COLOR is brighter and covers a broader depth range suitable for channel letters, light boxes and other applications.

- Channel letters
- Box signs
- Cove lighting

ULTRA 650 COLOR Specs

Module	Dimensions (L x W x H)		Module Spacing		Number of Modules	
			6 in.	150 mm	2 per ft	6.7 per m
ULTRA 650 COLOR	1.89 x 0.47 x 0.35 in.	48 x 12 x 8.8 mm	8 in.	200 mm	1.5 per ft	5 per m



ULTRA 650 COLOR Ordering Guide

ULTRA 650 COLOR					
Wattage: 0.78 W Nominal	60W PS Load: 70 Modules	Current: 0.065 A/Module	Nominal Light Output (lm): ³10%		
Part Number	Module Spacing (mm)	Wavelength	Lumens/Module	Lumens/ft	Lumens/m
LS-U650-RED-B150-A	150	625 nm	25	50.0	167.5
LS-U650-BLU-B150-A	150	467 nm	14.5	29.0	97.15
LS-U650-GRN-B150-A	150	525 nm	55	110.0	368.5
LS-U650-RRD-B150-A	150	633 nm	20	40.0	134
LS-U650-ORG-B150-A	150	606 nm	30	60.0	201
LS-U650-YLW-B150-A	150	589 nm	12.5	25	83.8
LS-U650-RED-B200-A	200	625 nm	25	37.5	125
LS-U650-BLU-B200-A	200	467 nm	14.5	21.75	72.5
LS-U650-GRN-B200-A	200	525 nm	55	82.5	275
LS-U650-RRD-B200-A	200	633 nm	20	30	100
LS-U650-ORG-B200-A	200	606 nm	30	45	150
LS-U650-YLW-B200-A	200	589 nm	12.5	18.8	62.5

ULTRA 650 COLOR Population Density Guide* (in. | mm)

LS-U650-xxx-B150-A					
Single Row Channel Depth	Red Max. Stroke*	Blue Max. Stroke**	Green Max. Stroke**	Yellow Max. Stroke	PR/OR Max. Stroke
3 75	7.5 190	6 150	8 200	6 150	***
4 100	8 200	8 200	10 250	10 250	***
5 125	9 230	10 250	12 300	12 300	8 200
6 150	11 280	12 300	12 300	12 300	9 225
7 180	10 250	12 300	11 275	12 300	10 250
Multiple Row Channel Depth	Red Max. Stroke*	Blue Max. Stroke**	Green Max. Stroke**	Yellow Max. Stroke	PR/OR Max. Stroke
3 75	6 150	5 125	6 150	6 150	***
4 100	7 175	8 200	8 200	9 225	***
5 125	8 200	10 250	10 250	11 275	8 200
6 150	12 300	12 300	12 300	12 300	9 225
7 180	11 275	14 350	12 300	12 300	10 250
LS-U650-xxx-B200-A					
Single Row Channel Depth	Red Max. Stroke*	Blue Max. Stroke**	Green Max. Stroke**	Yellow Max. Stroke	PR/OR Max. Stroke
3 75	6 150	6.5 165	8 200	6 150	6 150
4 100	8 200	12 300	12 300	10 250	10 250
5 125	12 300	14 350	14 350	12 300	12 300
6 150	11 275	16 400	16 400	12 300	14 350
7 180	10 250	18 450	18 450	10 250	18 450
Multiple Row Channel Depth	Red Max. Stroke*	Blue Max. Stroke**	Green Max. Stroke**	Yellow Max. Stroke	PR/OR Max. Stroke
3 75	8 200	5 125	6 150	6 150	6 150
4 100	10 250	8 200	10 250	9 225	10 250
5 125	12 300	10 250	12 300	11 275	12 300
6 150	14 350	12 300	15 375	12 300	14 350
7 180	16 400	14 350	16 400	12 300	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



ULTRA 400 SERIES



RoHS **LM-80** **LM-79** **IP68**



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

ULTRA 400 Specs

Module	Dimensions (L x W x H)		Module Spacing		Number of Modules	
ULTRA 430	1.52 x 1.03 x 0.42 in.	38.5 x 26.2 x 10.6 mm	4 in. or 6 in.	100 or 150 mm	3 or 2 per ft	10 or 6.7 per m
ULTRA 450 & 470	1.52 x 1.03 x 0.42 in.	38.5 x 26.2 x 10.6 mm	6 in.	150 mm	2 per ft	6.7 per m



ULTRA 430 Ordering Guide

ULTRA 430					
Wattage: 0.3 W Nominal	60W PS Load: 184 Modules	Current: 0.025 A/Module	Nominal Light Output (lm): ³10%		
Part Number	Module Spacing (mm)	Color Temp	Lumens/Module	Lumens/ft	Lumens/m
LS-U430-75K-B100-A	100	7500K	33	99	330
LS-U430-65K-B100-A	100	6500K	34	102	340
LS-U430-57K-B100-A	100	5700K	32	96	320
LS-U430-50K-B100-A	100	5000K	32	96	320
LS-U430-40K-B100-A	100	4000K	32	96	320
LS-U430-30K-B100-A	100	3000K	30	90	300
LS-U430-27K-B100-A	100	2700K	30	90	300
LS-U430-75K-B150-A	150	7500K	33	66	221
LS-U430-65K-B150-A	150	6500K	34	68	228
LS-U430-57K-B150-A	150	5700K	32	64	214
LS-U430-50K-B150-A	150	5000K	32	64	214
LS-U430-40K-B150-A	150	4000K	32	64	214
LS-U430-30K-B150-A	150	3000K	30	60	201
LS-U430-27K-B150-A	150	2700K	30	60	201

ULTRA 450 Ordering Guide

ULTRA 450					
Wattage: 0.48 W Nominal	60W PS Load: 115 Modules	Current: 0.04 A/Module	Nominal Light Output (lm): ³10%		
Part Number	Module Spacing (mm)	Color Temp	Lumens/Module	Lumens/ft	Lumens/m
LS-U450-75K-B150-A	150	7500K	48	96	322
LS-U450-65K-B150-A	150	6500K	50	100	335
LS-U450-57K-B150-A	150	5700K	47	94	315
LS-U450-50K-B150-A	150	5000K	47	94	315
LS-U450-40K-B150-A	150	4000K	47	94	315
LS-U450-30K-B150-A	150	3000K	44	88	295
LS-U450-27K-B150-A	150	2700K	44	88	295

ULTRA 470 Ordering Guide

ULTRA 470					
Wattage: 0.66 W Nominal	60W PS Load: 84 Modules	Current: 0.055 A/Module	Nominal Light Output (lm): ³10%		
Part Number	Module Spacing (mm)	Color Temp	Lumens/Module	Lumens/ft	Lumens/m
LS-U470-75K-B150-A	150	7500K	67	134	449
LS-U470-65K-B150-A	150	6500K	70	140	469
LS-U470-57K-B150-A	150	5700K	67	134	449
LS-U470-50K-B150-A	150	5000K	67	134	449
LS-U470-40K-B150-A	150	4000K	67	134	449
LS-U470-30K-B150-A	150	3000K	63	126	422
LS-U470-27K-B150-A	150	2700K	63	126	422

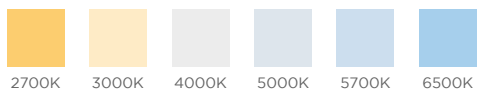
ULTRA 400 Population Density Guide* (in. | mm)

ULTRA 430				
Channel Depth	Single Row		Multiple Rows	
	Max. Stroke	Module Spacing	Row Spacing	Module Spacing
1.2 30	3 75	2.5 65	2.5 65	2.5 65
1.6 40	5 125	4 100	4 100	4 100
2 50	6 150	5 100	5 125	5 125
ULTRA 450				
Channel Depth	Single Row		Multiple Rows	
	Max. Stroke	Module Spacing	Row Spacing	Module Spacing
2 50	6 150	5 125	5 125	5 125
3 75	9.5 240	6 150	8.5 215	6 150
ULTRA 470				
Channel Depth	Single Row		Multiple Rows	
	Max. Stroke	Module Spacing	Row Spacing	Module Spacing
3 75	9.5 240	6 150	8.5 215	6 150
4 100	14 355	6 150	12 305	6 150

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



ULTRA EDGE



This ULTRA EDGE module features an edge lighting beam pattern that enables large light coverage per module and significantly reduces the number of modules per sign. These technologies allow for the lowest energy consumption and the lowest LED system cost in the market, reducing installation cost to signmakers and end users.

- Box signs (2-6 in.) in small to medium sizes, single- and double-faced
- Exterior linear fixtures for wall washing and billboard uplighting



ULTRA EDGE Specs

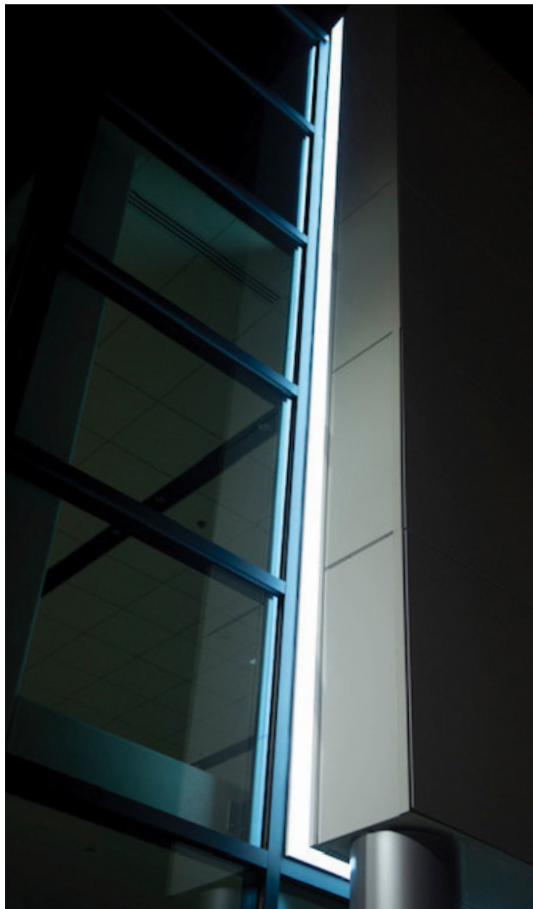
Module	Dimensions (L x W x H)		Module Spacing	Number Of Modules	
ULTRA EDGE	4.13 x 0.69 x 0.57 in.	105 x 17.6 x 14.5 mm	6 in. 150 mm	2 per ft 6.7 per m	

ULTRA EDGE Ordering Guide

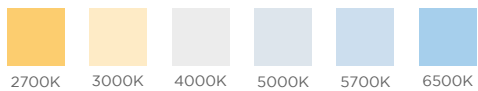
ULTRA EDGE					
Wattage: 1.87 W Nominal	60W PS Load: 30 Modules	Current: 0.156 A/Module	Nominal Light Output (lm): ³ 10%		
Part Number	Module Spacing (mm)	Color Temp	Lumens/Module	Lumens/ft	Lumens/m
LS-U750-65K-E150-A	150	6500K	185	370	1240
LS-U750-57K-E150-A	150	5700K	185	370	1240
LS-U750-50K-E150-A	150	5000K	185	370	1240
LS-U750-40K-E150-A	150	4000K	185	370	1240
LS-U750-30K-E150-A	150	3000K	185	370	1240
LS-U750-27K-E150-A	150	2700K	175	350	1173

ULTRA EDGE Population Density Guide

Single Face (Using 7328 White Acrylic, 0.18"/4.5 mm)					
Mounting Configuration	Depth (in. mm)	Reachout Length (ft mm)	Module Spacing (ft mm)	Lit Area/Module (ft² mm²)	Optical Requirements on Housing Materials
On 1 edge	2 50	2.5 760	0.38 115	0.95 87400	Reflective white surface inside
	3 75	3 915	0.38 115	1.14 105225	
	4 100	3 915	0.38 115	1.14 105225	
	5 125	3 915	0.38 115	1.14 105225	
	6 150	3 915	0.38 115	1.14 105225	
On 2 opposite edges	2 50	2 x 1.5 2 x 455	0.38 115	0.57 52325	Reflective white surface inside
	3 75	2 x 2.5 2 x 760	0.38 115	0.95 87400	
	4 100	2 x 2.5 2 x 760	0.38 115	0.95 87400	
	5 125	2 x 2.5 2 x 760	0.38 115	0.95 87400	
	6 150	2 x 2.5 2 x 760	0.38 115	0.95 87400	
Double Face (using 7328 white acrylic, 0.18"/4.5 mm)					
Mounting Configuration	Depth (in. mm)	Reachout Length (ft mm)	Module Spacing (ft mm)	Lit Area/Module (ft² mm²)	Optical Requirements on Housing Materials
On 1 edge	2 50	2 610	0.38 115	0.76 70150	Reflective white surface inside
	3 75	2 610	0.38 115	0.76 70150	
	4 100	2 610	0.38 115	0.76 70150	
	5 125	2 610	0.38 115	0.76 70150	
	6 150	2 610	0.38 115	0.76 70150	
On 2 opposite edges	2 50	2 x 1.25 2 x 380	0.38 115	0.48 43700	Reflective white surface inside
	3 75	2 x 1.5 2 x 455	0.38 115	0.57 52325	
	4 100	2 x 1.75 2 x 535	0.38 115	0.67 61525	
	5 125	2 x 1.75 2 x 535	0.38 115	0.67 61525	
	6 150	2 x 1.75 2 x 535	0.38 115	0.67 61525	



ULTRA EDGE HO





LM-80LM-79IP68





Our ULTRA EDGE HO modules feature a special high-output edge lighting beam pattern that significantly increases light output, drastically reducing the number of modules needed per sign in many dimensions. Better light coverage reduces the number of modules needed per sign, which lowers installation, maintenance and energy costs.

- Box signs (2-6 in.) in small to medium sizes, single- and double-faced
- Exterior linear fixtures for wall washing and billboard uplighting

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 in.	105 x 17.6 x 14.5 mm	6 in.	150 mm	2 per ft	6.7 per m

ULTRA EDGE HO Ordering Guide

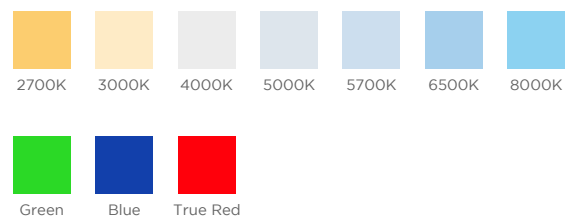
ULTRA EDGE HO					
Wattage: 2.76 W Nominal	60W PS Load: 20 Modules	Current: 0.230 A/Module	Nominal Light Output (lm): ³ 10%		
Part Number	Module Spacing (mm)	Color Temp.	Lumens/Module	Lumens/ft	Lumens/m
LS-U770-65K-E150-A	150	6500K	250	500	1675
LS-U770-57K-E150-A	150	5700K	250	500	1675
LS-U770-50K-E150-A	150	5000K	250	500	1675
LS-U770-40K-E150-A	150	4000K	250	500	1675
LS-U770-30K-E150-A	150	3000K	250	500	1675
LS-U770-27K-E150-A	150	2700K	240	480	1608



ULTRA EDGE HO Population Density Guide

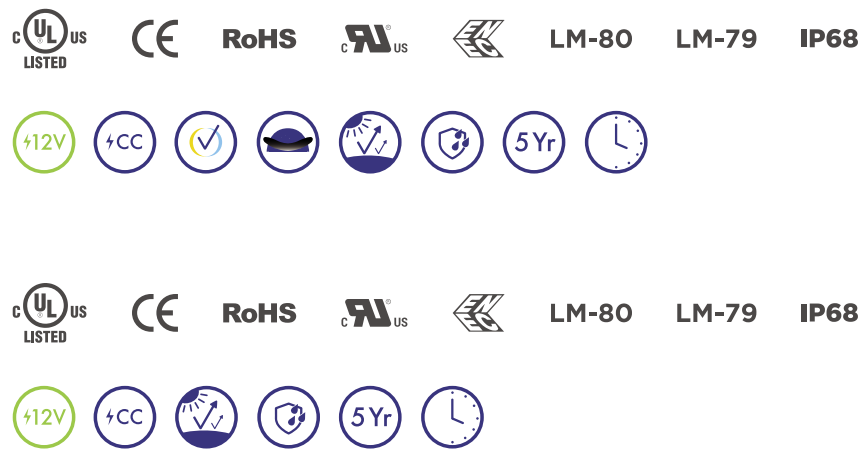
Single Face (using 7328 white acrylic, 0.18"/4.5 mm)					
Mounting Configuration	Depth (in. mm)	Reachout Length (ft mm)	Module Spacing (ft mm)	Lit Area/Module (ft² mm²)	Optical Requirements on Housing Materials
On 1 edge	2 50	2.5 760	0.38 ft 115	0.95 ft² 87400	Reflective white surface inside
	3 75	3 915	0.38 ft 115	1.14 ft² 105225	
	4 100	3.5 1065	0.38 ft 115	1.33 ft² 122475	
	5 125	4 1220	0.38 ft 115	1.52 ft² 140300	
	6 150	4 1220	0.38 ft 115	1.52 ft² 140300	
On 2 opposite edges	2 50	2 x 1.75 2 x 535	0.38 ft 115	0.67 ft² 61525	Reflective white surface inside
	3 75	2 x 2.5 2 x 760	0.38 ft 115	0.95 ft² 87400	
	4 100	2 x 2.5 2 x 760	0.38 ft 115	0.95 ft² 87400	
	5 125	2 x 2.5 2 x 760	0.38 ft 115	0.95 ft² 87400	
	6 150	2 x 2.5 2 x 760	0.38 ft 115	0.95 ft² 87400	
Double Face (using 7328 white acrylic, 0.18"/4.5 mm)					
Mounting Configuration	Depth (in. mm)	Reachout Length (ft mm)	Module Spacing (ft mm)	Lit Area/Module (ft² mm²)	Optical Requirements on Housing Materials
On 1 edge	2 50	2 610	0.38 115	0.76 70150	Reflective white surface inside
	3 75	2.5 760	0.38 115	0.95 87400	
	4 100	2.5 760	0.38 115	0.95 87400	
	5 125	2.5 760	0.38 115	0.95 87400	
	6 150	2.5 760	0.38 115	0.95 87400	
On 2 opposite edges	2 50	2 x 1.5 2 x 455	0.38 115	0.57 52325	Reflective white surface inside
	3 75	2 x 1.75 2 x 535	0.38 115	0.67 61525	
	4 100	2 x 2 2 x 610	0.38 115	0.76 70150	
	5 125	2 x 2 2 x 610	0.38 115	0.76 70150	
	6 150	2 x 2 2 x 610	0.38 115	0.76 70150	

ULTRA MINI WHITE / COLOR



The IP68 rated ULTRA MINI is a popular option for sleek, modern miniature channel letters. The ULTRA MINI features a range of white and color options, enabling a broad variety of applications for indoor and outdoor signage.

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



ULTRA MINI Specs						
Module	Dimensions (L x W x H)		Module Spacing		Number of Modules	
ULTRA MINI WHITE	0.7 x 0.31 x 0.39 in.	17 x 8 x 9.8 mm	1.97 in.	50 mm	6 per ft	20 per m
	0.7 x 0.31 x 0.39 in.	17 x 8 x 9.8 mm	1.32 in.	33.5 mm	9 per ft	30 per m
ULTRA MINI COLOR	0.7 x 0.31 x 0.39 in.	17 x 8 x 9.8 mm	1.97 in.	50 mm	6 per ft	20 per m
	0.7 x 0.31 x 0.39 in.	17 x 8 x 9.8 mm	1.32 in.	33.5 mm	9 per ft	30 per m

ULTRA MINI WHITE					
Wattage: 0.2 W Nominal	60W PS Load: 276 Modules	Current: 0.017 A/Module	Nominal Light Output (lm): ³ 10%		
Part Number	Module Spacing (mm)	Color Temp.	Lumens/Module	Lumens/ft	Lumens/m
LS-UMIN-80K-L4-50B	50	8000K	24	146	450
LS-UMIN-65K-L4-50B	50	6500K	22	134	440
LS-UMIN-57K-L4-50B	50	5700K	22	134	440
LS-UMIN-50K-L4-50B	50	5000K	22	134	440
LS-UMIN-40K-L4-50B	50	4000K	22	134	440
LS-UMIN-30K-L4-50B	50	3000K	22	134	440
LS-UMIN-27K-L4-50B	50	2700K	20	122	400
LS-UMIN-80K-L4-35B	35	8000K	24	218	720
LS-UMIN-65K-L4-35B	35	6500K	22	200	660
LS-UMIN-57K-L4-35B	35	5700K	22	200	660
LS-UMIN-50K-L4-35B	35	5000K	22	200	660
LS-UMIN-40K-L4-35B	35	4000K	22	200	660
LS-UMIN-30K-L4-35B	35	3000K	22	200	660
LS-UMIN-27K-L4-35B	35	2700K	20	182	600

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	1.60 40	2 50	1.60 40	2 50
2 50	0.31 8	2 50	3.25 82	2 50	2.50 63	2 50

ULTRA MINI COLOR					
Wattage: 0.12 W Nominal	60W PS Load: 460 Modules	Current: 0.010 A	Nominal Light Output (lm): ³ 10%		
Part Number	Module Spacing (mm)	Color Temp.	Lumens/Module	Lumens/ft	Lumens/m
LS-UMIN-TRD-L4-50A	50	True Red (625 nm)	4.4	27	88
LS-UMIN-BLU-L4-50A	50	Blue (467 nm)	2.6	16	52
LS-UMIN-GRN-L4-50A	50	Green (526 nm)	11.6	71	232
LS-UMIN-TRD-L4-35A	35	True Red (625 nm)	4.4	40	132
LS-UMIN-BLU-L4-35A	35	Blue (467 nm)	2.6	24	78
LS-UMIN-GRN-L4-35A	35	Green (526 nm)	11.6	106	348

ULTRA MINI COLOR Population Density Guide										
ULTRA MINI COLOR										
Module Color (Face)	True Red (2793) / Green (7328)			Blue (2051)			True Red (2793)/ Green (7328)		Blue (2051)	
	Single Row			Single Row			Multiple Rows		Multiple Rows	
Channel Depth (in. mm)	Min. Stroke	Max. Stroke	Module Spacing	Min. Stroke	Max. Stroke	Module Spacing	Row Spacing	Module Spacing	Row Spacing	Module Spacing
1 25	0.31 8	0.79 20	1.18 30	0.31 8	0.79 20	0.98 25	0.79 20	1.18 30	0.79 20	1.18 30
1.6 40	0.31 8	1.6 40	1.97 50	0.31 8	1.6 40	1.97 50	1.6 40	1.97 50	1.6 40	1.77 45
2 50	0.31 8	3.25 82	1.97 50	0.31 8	3.25 82	1.97 50	2.5 63	1.97 50	2.5 63	1.97 50



Photographer: David Handschuh

12V POWER SUPPLY LOADING CHART

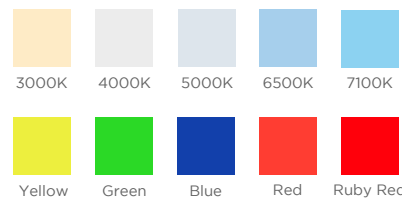
Product Name	12 VDC LED Module Part Number	Module Wattage (W)	Input Current (A)	Max # Modules per String (@ 60W)
ULTRA MINI WHITE	LS-UMIN-xxK-L4-35B	0.20	0.017	172
ULTRA MINI WHITE	LS-UMIN-xxK-L4-50B	0.20	0.017	172
ULTRA MINI COLOR	LS-UMIN-xxx-L4-35A	0.12	0.010	245
ULTRA MINI COLOR	LS-UMIN-xxx-L4-50A	0.12	0.010	200
ULTRA 430	LS-U430-xxK-B100-A	0.30	0.025	145
ULTRA 430	LS-U430-xxK-B150-A	0.30	0.025	122
ULTRA 450	LS-U450-xxK-B150-A	0.30	0.025	93
ULTRA 470	LS-U470-xxK-B150-A	0.66	0.055	77
ULTRA 650	LS-U650-xxK-B200-A	0.78	0.065	67
ULTRA 650 COLOR	LS-U650-xxx-B150-A/B	0.78	0.065	67
ULTRA 650 COLOR	LS-U650-xxx-B200-A/B	0.78	0.065	67
ULTRA 670	LS-U670-xxK-B200-A	1.24	0.103	43
ULTRA 670	LS-U670-xxK-B250-A	1.24	0.103	43
ULTRA EDGE	LS-U750-xxK-E150-A	1.87	0.156	27
ULTRA EDGE HO	LS-U770-xxK-E150-A	2.76	0.230	19

Product Name	Total Number of Modules per Power Supply									Module Spacing (in. mm)	# of Modules (ft m)
	12W	15W	35W	60W*	100W*	150W*	180W*	180W**	220W*		
ULTRA MINI WHITE	55	96	161	276	450	675	810	828	990	1.37 35	9 30
ULTRA MINI WHITE	55	96	161	276	450	675	810	828	990	1.96 50	6 20
ULTRA MINI COLOR	92	115	268	460	750	1125	1350	1350	1650	1.39 35.5	9 30
ULTRA MINI COLOR	92	115	268	460	750	1125	1350	1350	1650	1.96 50	6 20
ULTRA 430	36	46	107	184	300	450	540	552	660	3.93 100	3 10
ULTRA 430	36	46	107	184	300	450	540	552	660	5.9 150	2 150
ULTRA 450	23	29	67	115	188	281	338	345	413	5.9 150	2 6.7
ULTRA 470	17	21	49	84	136	205	245	252	300	5.9 150	2 6.7
ULTRA 650	14	17	41	70	115	173	207	210	253	7.8 200	1.5 5
ULTRA 650 COLOR	14	17	41	70	115	173	207	210	253	5.9 150	2 6.7
ULTRA 650 COLOR	14	17	41	70	115	173	207	210	253	7.8 200	1.5 5
ULTRA 670	8	11	26	44	72	109	131	132	160	7.87 200	1.5 5
ULTRA 670	8	11	26	44	72	109	131	132	160	9.8 250	1.2 4
ULTRA EDGE	6	7	17	30	48	72	87	90	106	5.9 150	2 6.7
ULTRA EDGE HO	4	5	12	20	33	49	59	60	72	5.9 150	2 6.7

* 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

PRO PREMIUM SERIES

A High-Grade 24V Signage Lighting Solution



The PRO Premium series is a family of 24V signage modules designed for high brightness channel letters, box signs and accent lighting. PRO Premium 2 and PRO Premium 4 modules are available in five (5) CCTs, each with two (2) output options, and our PRO Premium Color modules offer five (5) brilliant color choices. Each PRO Premium module contains an integrated circuit that maintains constant current, so there is no lumen drop across any string of modules. Our PRO Premium products are stringently tested for performance, efficiency and longevity – each system is IP68 rated and carries a 9-year warranty.

- Channel letters
- Box and Cabinet signs
- Cove lighting
- Accent lighting

PRO PREMIUM SERIES Specs

Module	Length (in. mm)	Width (in. mm)	Height (in. mm)
PRO PREMIUM 2	2.26 in. 57.3 mm	0.72 in. 18.28 mm	0.44 in. 11.25 mm
PRO PREMIUM 2 COLOR	2.26 in. 57.3 mm	0.72 in. 18.28 mm	0.44 in. 11.25 mm
PRO PREMIUM 2 HO	2.26 in. 57.3 mm	0.72 in. 18.28 mm	0.44 in. 11.25 mm
PRO PREMIUM 4	3.32 in. 84.3 mm	0.72 in. 18.28 mm	0.44 in. 11.25 mm
PRO PREMIUM 4 HO	3.32 in. 84.3 mm	0.72 in. 18.28 mm	0.44 in. 11.25 mm



PRO PREMIUM 2 & PRO PREMIUM 2 HO Ordering Guide

PRO PREMIUM 2					
Wattage: 0.20 W Nominal	60W PS Load: 288 Modules	Current: 0.008 A/Module	Nominal Light Output (lm): ³10%		
Part Number	Module Spacing (mm)	Color Temp.	Lumens/Module	Lumens/ft	Lumens/m
LS-PRO2-24-SO-71K-150-A	150	7100K	35	71	233
LS-PRO2-24-SO-65K-150-A	150	6500K	35	71	233
LS-PRO2-24-SO-50K-150-A	150	5000K	35	71	233
LS-PRO2-24-SO-40K-150-A	150	4000K	33	67	220
LS-PRO2-24-SO-30K-150-A	150	3000K	33	67	220
PRO PREMIUM 2 HO					
Wattage: 0.49 W Nominal	60W PS Load: 115 Modules	Current: 0.020 A/Module	Nominal Light Output (lm): ³10%		
Part Number	Module Spacing (mm)	Color Temp.	Lumens/Module	Lumens/ft	Lumens/m
LS-PRO2-24-HO-71K-200-A	200	7100K	80	122	400
LS-PRO2-24-HO-65K-200-A	200	6500K	80	122	400
LS-PRO2-24-HO-50K-200-A	200	5000K	80	122	400
LS-PRO2-24-HO-40K-200-A	200	4000K	76	116	380
LS-PRO2-24-HO-30K-200-A	200	3000K	76	116	380

PRO PREMIUM 4 & PRO PREMIUM 4 HO Ordering Guide

PRO PREMIUM 4					
Wattage: 0.85 W Nominal	60W PS Load: 66 Modules	Current: 0.035 A/Module	Nominal Light Output (lm): ³10%		
Part Number	Module Spacing (mm)	Color Temp.	Lumens/Module	Lumens/ft	Lumens/m
LS-PRO4-24-SO-71K-200-A	200	7100K	140	213	700
LS-PRO4-24-SO-65K-200-A	200	6500K	140	213	700
LS-PRO4-24-SO-50K-200-A	200	5000K	140	213	700
LS-PRO4-24-SO-40K-200-A	200	4000K	133	203	665
LS-PRO4-24-SO-30K-200-A	200	3000K	133	203	665
PRO PREMIUM 4 HO					
Wattage: 1.34 W Nominal	60W PS Load: 41 Modules	Current: 0.056 A/Module	Nominal Light Output (lm): ³10%		
Part Number	Module Spacing (mm)	Color Temp.	Lumens/Module	Lumens/ft	Lumens/m
LS-PRO4-24-HO-71K-300-A	300	7100K	200	244	800
LS-PRO4-24-HO-65K-300-A	300	6500K	200	244	800
LS-PRO4-24-HO-50K-300-A	300	5000K	200	244	800
LS-PRO4-24-HO-40K-300-A	300	4000K	190	232	760
LS-PRO4-24-HO-30K-300-A	300	3000K	190	232	760

PRO PREMIUM COLOR Ordering Guide*

PRO PREMIUM 2 COLOR							
Wattage: 0.20 W Nominal			Input Current	Nominal Light Output (lm): ³10%			# of Modules per 60W Power Supply
Part Number	Color	Module Spacing (mm)	A/ module	Lumens/ Module	Lumens/ ft	Lumens/ m	
LS-PRO2-24-SO-RED-150-A	Red	150	0.020A	27	55	180	115
LS-PRO2-24-SO-GRN-150-A	Green	150	0.020A	49	100	327	115
LS-PRO2-24-SO-BLU-150-A	Blue	150	0.031A	15	30	100	74
LS-PRO2-24-SO-RRD-150-A	Ruby Red	150	0.022A	20	41	133	105
LS-PRO2-24-SO-YLW-150-A	Yellow	150	0.020A	13	26	87	115

PRO PREMIUM Population Density Guide* (in. | mm)

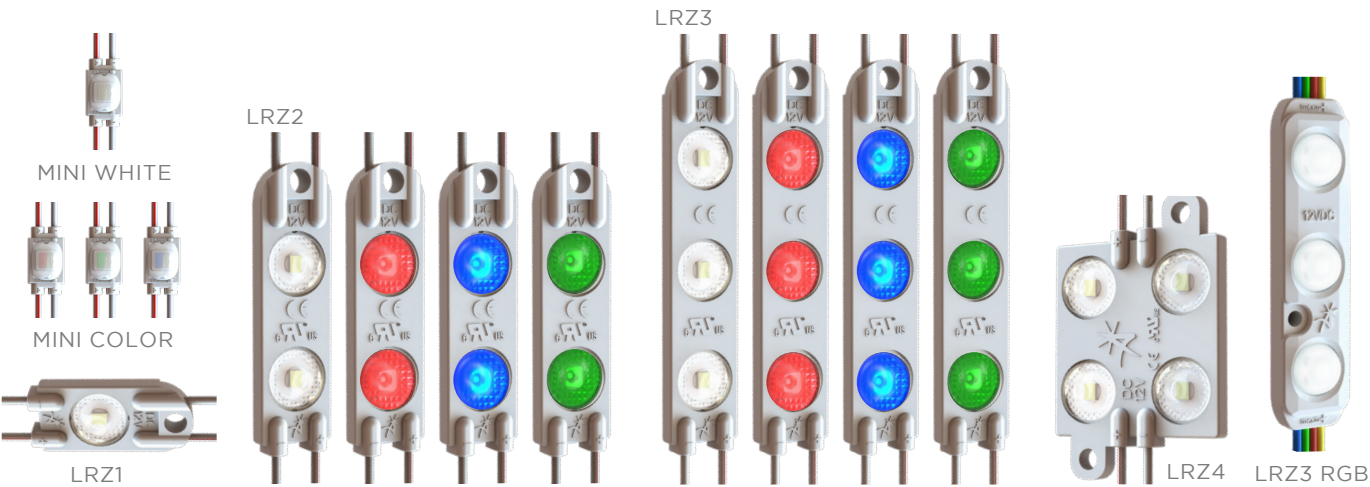
PRO PREMIUM 2				
Channel Depth	Single Row		Multiple Rows	
	Max. Stroke	Module Spacing	Row Spacing	Module Spacing
1.57 40	3.9 100	3.5 90	3.2 80	3.5 90
2 50	4.9 125	4.3 110	3.9 100	4.3 110
3 75	7.1 180	5.9 150	5.9 150	5.9 150
4 100	9.8 250	5.9 150	7.9 200	5.9 150
5 125	11.8 300	5.9 150	9.8 250	5.9 150
PRO PREMIUM 2 HO				
Channel Depth	Single Row		Multiple Rows	
	Max. Stroke	Module Spacing	Row Spacing	Module Spacing
1.57 40	3.9 100	3.5 90	3.2 80	3.5 90
2 50	4.9 125	4.3 110	3.9 100	4.3 110
3 75	7.1 180	6.3 160	5.9 150	6.3 160
4 100	9.8 250	7.9 200	7.9 200	7.9 200
5 125	11.8 300	7.9 200	9.8 250	7.9 200
PRO PREMIUM 4				
Channel Depth	Single Row		Multiple Rows	
	Max. Stroke	Module Spacing	Row Spacing	Module Spacing
4 100	9.8 250	7.9 200	7.9 200	7.9 200
5 125	11.8 300	7.9 200	9.8 250	7.9 200
6 150	14.8 375	7.9 200	11.8 300	7.9 200
7 180	17.7 450	7.9 200	14.2 360	7.9 200
8 200	19.7 500	7.9 200	15.8 400	7.9 200
PRO PREMIUM 4 HO				
Channel Depth	Single Row		Multiple Rows	
	Max. Stroke	Module Spacing	Row Spacing	Module Spacing
4 100	9.8 250	7.9 200	7.9 200	7.9 200
5 125	11.8 300	9.8 250	9.8 250	9.8 250
6 150	14.8 375	11.8 300	11.8 300	11.8 300
7 180	17.7 450	11.8 300	14.2 360	11.8 300
8 200	19.7 500	11.8 300	15.8 400	11.8 300
PRO PREMIUM COLOR				
Channel Depth	Single Row		Multiple Rows	
	Max. Stroke	Module Spacing	Row Spacing	Module Spacing
1.57 40	3.9 100	3.5 90	3.2 80	3.5 90
2 50	4.9 125	4.3 110	3.9 100	4.3 110
3 75	7.1 180	5.9 150	5.9 150	5.9 150
4 100	9.8 250	5.9 150	7.9 200	5.9 150
5 125	11.8 300	5.9 150	9.8 250	5.9 150

* See page 30 for Pro Premium module dimensions

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

LYTERAYZ®

Our Value Product Line For Box Signs, Channel Letters And Cove Lighting



LYTERAYZ® LRZ1, LRZ2, LRZ3, LRZ3, LRZ4

The LyteRayz® Series is a family of LED modules that offers best-in-class efficiency and performance. The most cost-competitive module series in the industry, our value line LyteRayz® LRZ modules come in four sizes and two color temperatures, all with wide-angle lenses, an overmolded design and an IP66 rating. LyteRayz® LRZ2 and LRZ3 color modules are available in three static colors (red, blue and green).

- Channel letters, box signs and cove lighting
- Applications (using LRZ1) starting at 2 in. (50 mm) depth
- Applications (using LRZ2, LRZ3 & LRZ4) starting at 3 in. (76.2 mm) depth
- All static white modules available in 5000K and 7500K
- LRZ2 and LRZ3 color modules available in red, blue and green

LYTERAYZ® LRZ3 RGB

Each string of our LyteRayz® LRZ3 RGB modules can light your signs in red, green, blue or any blended color combination. Great for channel letters, box signs and cove lighting, LRZ3 RGB modules are part of our LyteRayz® value line. They feature an IP66 rating and come with a five-year warranty.

- Channel letters and box signs
- Cove lighting and accent lighting
- Applications starting at 3 in. (76.2 mm) depth

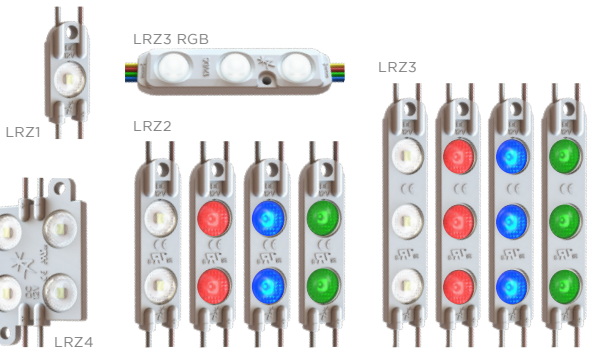
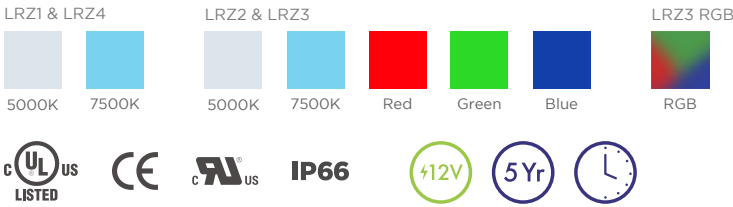
LYTERAYZ® MINI

The newest members of the LyteRayz® family are the Mini White and Mini Color modules. Our smallest sign modules, they still pack lots of power! Great for the tiniest indoor or outdoor channel letters and minute sign details, LyteRayz® Mini White is available in eight (8) color temperatures and Mini Color comes in red, green and blue. Both are rated IP67 and offer superior flexibility for your trickiest signs.

- Outdoor miniature channel letters
- Outdoor acrylic block letters
- Ultra thin small channel letters
- Applications starting at 1 in. (25 mm) depth
- Accent lighting



LYTERAYZ®



LyteRayz® Specs

Part Number	Length (in. mm)	Width (in. mm)	Height (in. mm)
LS-LRZ1-xxK-B125-A	1.44 36	0.66 17	0.33 8
LS-LRZ2-xxK-B175-A	2.38 60	0.66 17	0.33 8
LS-LRZ3-xxK-B200-A	3.32 84	0.66 17	0.33 8
LS-LRZ3-RGB-B200-A	2.62 66	0.61 15	0.38 10
LS-LRZ4-xxK-B200-A	2.32 59	1.52 39	0.33 8

LyteRayz® Ordering Guide

LRZ1							
Wattage: 0.34 W/module	60W PS Load: 175 modules	Current: 28 mA	Number of Modules		Nominal Light Output (lm): ³10%		
Part Number	Module Spacing (mm)	Color Temp.	Per Foot	Per Meter	Per Module	Per Foot	Per Meter
LS-LRZ1-75K-B125-A	125	7500K	2.4	8	50	122	400
LS-LRZ1-50K-B125-A	125	5000K	2.4	8	50	122	400

LRZ2							
Wattage: 0.61 W/module (White) 0.65 W/module (Colors)	60W PS Load: 96 module (White) 92 module (Colors)	Current: 50 mA (White) 54 mA (Colors)	Number of Modules		Nominal Light Output (lm): ³10%		
Part Number	Module Spacing (mm)	Color Temp.	Per Foot	Per Meter	Per Module	Per Foot	Per Meter
LS-LRZ2-75K-B175-A	175	7500K	1.7	5.7	95	166	543
LS-LRZ2-50K-B175-A	175	5000K	1.7	5.7	95	166	543
LS-LRZ2-RED-B175-A	175	Red	1.7	5.7	29	51	166
LS-LRZ2-BLU-B175-A	175	Blue	1.7	5.7	13	23	74
LS-LRZ2-GRN-B175-A	175	Green	1.7	5.7	63	110	360

LRZ3							
Wattage: 0.96 W/module (White) 0.90 W/module (Colors)	60W PS Load: 62 modules (White) 66 modules (Colors)	Current: 80 mA (White) 75 mA (Colors)	Number of Modules		Nominal Light Output (lm): ³10%		
Part Number	Module Spacing (mm)	Color Temp.	Per Foot	Per Meter	Per Module	Per Foot	Per Meter
LS-LRZ3-75K-B200-A	200	7500K	1.5	5	140	213	700
LS-LRZ3-50K-B200-A	200	5000K	1.5	5	140	213	700
LS-LRZ3-RED-B200-A	200	Red	1.5	5	40	61	200
LS-LRZ3-BLU-B200-A	200	Blue	1.5	5	20	30	100
LS-LRZ3-GRN-B200-A	200	Green	1.5	5	90	137	450

LyteRayz® Ordering Guide

LRZ4							
Wattage: 1.24W/module	60W PS Load: 48 modules	Current: 103 mA	Number of Modules		Nominal Light Output (lm)*		
Part Number	Module Spacing (mm)	Color Temp.	Per Foot	Per Meter	Per Module	Per Foot	Per Meter
LS-LRZ4-75K-B200-A	200	7500K	1.5	5	185	282	925
LS-LRZ4-50K-B200-A	200	5000K	1.5	5	185	282	925

LRZ3 RGB							
Wattage: 0.72 W/module (All) 0.24 W/module (Red) 0.24 W/module (Green) 0.24 W/module (Blue)	60W PS Load: 83 modules	Current: 60 mA (All) 20 mA (Red) 20 mA (Green) 20 mA (Blue)	Number of Modules		Nominal Light Output (lm)*		
Part Number	Module Spacing (mm)	Color Temp.	Per Foot	Per Meter	Per Module	Per Foot	Per Meter
LS-LRZ3-RGB-B200-A	200	All	1.5	5	29	43.5	145
		Red	1.5	5	8	12	40
		Green	1.5	5	16	24	80
		Blue	1.5	5	5	7.5	25

LRZ1 Population Density Guide

Channel Depth (in. mm)	Single Row		Multiple Rows	
	Max. Stroke	Module Spacing	Row Spacing	Module Spacing
2 50	6 150	5 125	2 50	2 50
3 75	8 200	5 125	4 100	4 100
4 100	12 300	5 125	7 175	5 125

LRZ2 Population Density Guide

Channel Depth (in. mm)	Single Row		Multiple Rows	
	Max. Stroke	Module Spacing	Row Spacing	Module Spacing
3 75	8 200	7 175	4 100	4 100
4 100	12 300	7 175	7 175	6 150
5 125	16 400	7 175	10 250	7 175
6 150	18 450	7 175	10 250	7 175

LRZ3 Population Density Guide

Channel Depth (in. mm)	Single Row		Multiple Rows	
	Max. Stroke	Module Spacing	Row Spacing	Module Spacing
3 75	8 200	8 200	4 100	4 100
4 100	12 300	8 200	7 175	6 150
5 125	16 400	8 200	10 250	8 200
6 150	18 450	8 200	12 300	8 200
7 175	22 550	8 200	12 300	8 200

LRZ4 Population Density Guide

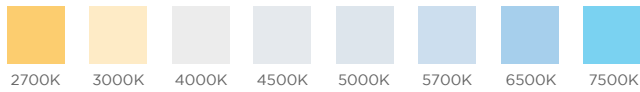
Channel Depth (in. mm)	Single Row		Multiple Rows	
	Max. Stroke	Module Spacing	Row Spacing	Module Spacing
3 75	8 200	8 200	4 100	4 100
4 100	12 300	8 200	7 175	6 150
5 125	16 400	8 200	10 250	8 200
6 150	18 450	8 200	12 300	8 200
7 175	22 550	8 200	12 300	8 200
8 200	24 610	8 200	18 450	8 200

LRZ3 RGB Population Density Guide

Channel Depth (in. mm)	Single Row		Multiple Rows	
	Max. Stroke	Module Spacing	Row Spacing	Module Spacing
3 75	6 150	5 125	4 100	4 100
4 100	9 225	6 150	6 150	7 175
5 125	12 300	8 200	10 250	8 200
6 150	14 350	8 200	12 300	8 200



LYTERAYZ® MINI WHITE



LyteRayz® Color Specs

Part Number	Length (in. mm)	Width (in. mm)	Height (in. mm)
LS-LRZM-xxK-Lxx-A	0.63 15.9z	0.33 8.5	0.34 8.6

LyteRayz® Mini White Ordering Guide

LRZ 1							
Wattage: 0.18 W Nominal	60W PS Load: 306 modules	Current: 0.015 A/ Module	Number of Modules		Nominal Light Output (lm)* ³ 10%		
Part Number	Module Spacing (mm)	Color Temp.	Per Foot	Per Meter	Per Module	Per Foot	Per Meter
LS-LRZM-75K-L50-A	50	7500K	6.1	20	20	122	400
LS-LRZM-65K-L50-A	50	6500K	6.1	20	20	122	400
LS-LRZM-57K-L50-A	50	5700K	6.1	20	20	122	400
LS-LRZM-50K-L50-A	50	5000K	6.1	20	20	122	400
LS-LRZM-45K-L50-A	50	4500K	6.1	20	18	110	360
LS-LRZM-40K-L50-A	50	4000K	6.1	20	18	110	360
LS-LRZM-30K-L50-A	50	3000K	6.1	20	18	110	360
LS-LRZM-27K-L50-A	50	2700K	6.1	20	18	110	360
LS-LRZM-75K-L35-A	33.5	7500K	9.1	30	20	182	598
LS-LRZM-65K-L35-A	33.5	6500K	9.1	30	20	182	598
LS-LRZM-57K-L35-A	33.5	5700K	9.1	30	20	182	598
LS-LRZM-50K-L35-A	33.5	5000K	9.1	30	20	182	598
LS-LRZM-45K-L35-A	33.5	4500K	9.1	30	18	164	538
LS-LRZM-40K-L35-A	33.5	4000K	9.1	30	18	164	538
LS-LRZM-30K-L35-A	33.5	3000K	9.1	30	18	164	538
LS-LRZM-27K-L35-A	33.5	2700K	9.1	30	18	164	538

LyteRayz® Mini White Population Density Guide

Channel Depth (in. mm)	Single Row		Single Row		Multiple Rows	
	Min. Stroke	Module Spacing	Max. Stroke	Module Spacing	Row Spacing	Module Spacing
1 25	0.33 8.5	1.18 30	0.79 20	1.18 30	0.79 20	1.18 30
1.6 40	0.33 8.5	2 50	1.6 40	2 50	1.6 40	2 50
2 50	0.33 8.5	2 50	3.25 82	2 50	2.5 63	2 50

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

LYTERAYZ® MINI COLOR



LyteRayz® Color Specs

Part Number	Length (in. mm)	Width (in. mm)	Height (in. mm)
LS-LRZM-xxx-Lxx-A	0.63 15.9	0.33 8.5	0.34 8.6

LyteRayz® Mini Color Ordering Guide

Wattage: 0.12 Nominal	60W PS Load: 460/ module	Current: 0.010 A	Number of Modules		Nominal Light Output (lm)* ³ 10%		
Part Number	Colors	Module Spacing (mm)	Per Foot	Per Meter	Per Module	Per Foot	Per Meter
LS-LRZM-TRD-L50-A	True Red (625 nm)	50	6.1	20	4.9	30	98
LS-LRZM-GRN-L50-A	Green (526 nm)	50	6.1	20	16.4	100	328
LS-LRZM-BLU-L50-A	Blue (467 nm)	50	6.1	20	3.1	19	62
LS-LRZM-TRD-L35-A	True Red (625 nm)	33.5	9.1	30	4.9	45	147
LS-LRZM-GRN-L35-A	Green (526 nm)	33.5	9.1	30	16.4	149	490
LS-LRZM-BLU-L35-A	Blue (467 nm)	33.5	9.1	30	3.1	28	93

LyteRayz® Mini Color Population Density Guide

Module Color (Face)	True Red (2793) / Green (7328)		Blue (2051)		True Red (2793) / Green (7328)		Blue (2051)	
	Single Row		Single Row		Multi Rows		Multi Rows	
Channel Depth (in.)	Min. Max Stroke	Module Spacing	Min. Max Stroke	Module Spacing	Row Spacing	Module Spacing	Row Spacing	Module Spacing
1	0.33 0.79	1.18	0.33 0.79	0.98	0.79	1.18	0.79	1.18
1.6	0.33 1.6	1.97	0.33 1.6	1.97	1.6	1.97	1.6	1.77
2	0.33 3.25	1.97	0.33 3.25	1.97	2.50	1.97	2.50	1.97
(mm)								
25	8.5 20	30	8.5 20	25	20	30	20	30
40	8.5 40	50	8.5 40	50	40	50	40	45
50	8.5 82	50	8.5 82	50	63	50	63	50

BoxRAYZ®

The Brightest LED Solution For Cabinet Signs

Our improved BoxRayz® products are great for stunning light in large cabinet signs. Featuring our proprietary VersaLenz® Advanced Optics and Capzul® Waterproof Technology, this unique system can be used with either a 12V or 24V constant voltage power supply.

BOXRAYZ® 3.0

Featuring up to 470 lumens 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.

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



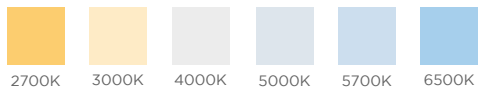
BOXRAYZ® EDGE 3.0

The BoxRayz® EDGE 3.0 LED module system features an asymmetric beam pattern that enables large light coverage at 433 lumens per module in the highest of six available white color temperatures. Designed primarily for edge lighting in box signs, the EDGE also works well in wall washing and billboard uplighting applications.

- Box signs (3-8 in.) in small to medium sizes, single- and double-faced
- Exterior linear fixtures for wall washing and billboard uplighting



BoxRAYZ[®] 3.0



CE RoHS cULus LM-80 LM-79 IP68



BoxRayz[®] 3.0 Specs

Module	Dimensions (L x W x H)		Module Spacing		Number of Modules	
BoxRayz [®] 3.0	5.2 x 1.9 x 0.6 in.	133 x 47 x 15 mm	16 in.	406 mm	0.75 per ft	2.46 per m

BoxRayz[®] 3.0 Ordering Guide

		BoxRayz [®] 3.0			
Wattage: 4.04 W Nominal (12V)	60W DC PS: 3 modules (12V)	Current: Current 0.337 A/module @ 12V/ Module	Nominal Light Output (lm): ³ 10%		
Part Number	Module Spacing (mm)	White Color Temp.	Lumens/Module	Lumens/ft	Lumens/m
LS-BRB3-65K-B405-A	405	6500K	470	353	1156
LS-BRB3-57K-B405-A	405	5700K	470	353	1156
LS-BRB3-50K-B405-A	405	5000K	470	353	1156
LS-BRB3-40K-B405-A	405	4000K	470	353	1156
LS-BRB3-30K-B405-A	405	3000K	450	338	1107
LS-BRB3-27K-B405-A	405	2700K	450	338	1107

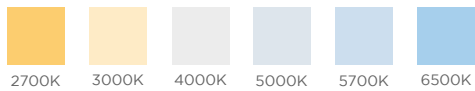
BoxRayz[®] 3.0 Population Density Guide* (in. | mm)

Channel Depth	Multiple Rows	
	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 3.0



CE RoHS cULus LM-80 LM-79 IP68



BoxRayz® EDGE 3.0 Specs

Module	Dimensions (L x W x H)		Module Spacing		Number of Modules	
BoxRayz® EDGE 3.0	4.1 x 1.5 x 0.7 in.	103 x 37 x 18 mm	12 in.	305 mm	1 per ft	3.3 per m

BoxRayz® EDGE 3.0 Ordering Guide

BoxRayz® EDGE 3.0					
Wattage: 4.70 W Nominal (12V)	60W DC PS: 12 modules (12V)	Current: 0.392 A/module @ 12V	Nominal Light Output (lm): ³10%		
Part Number	Module Spacing (mm)	White color Temp.	Lumens/Module	Lumens/ft	Lumens/m
LS-BRE3-65K-E305-A	305	6500K	415	415	1370
LS-BRE3-57K-E305-A	305	5700K	395	395	1305
LS-BRE3-50K-E305-A	305	5000K	395	395	1305
LS-BRE3-40K-E305-A	305	4000K	365	365	1205
LS-BRE3-30K-E305-A	305	3000K	365	365	1205
LS-BRE3-27K-E305-A	305	2700K	300	300	990

BoxRayz® EDGE 3.0 Layout Guide (English)

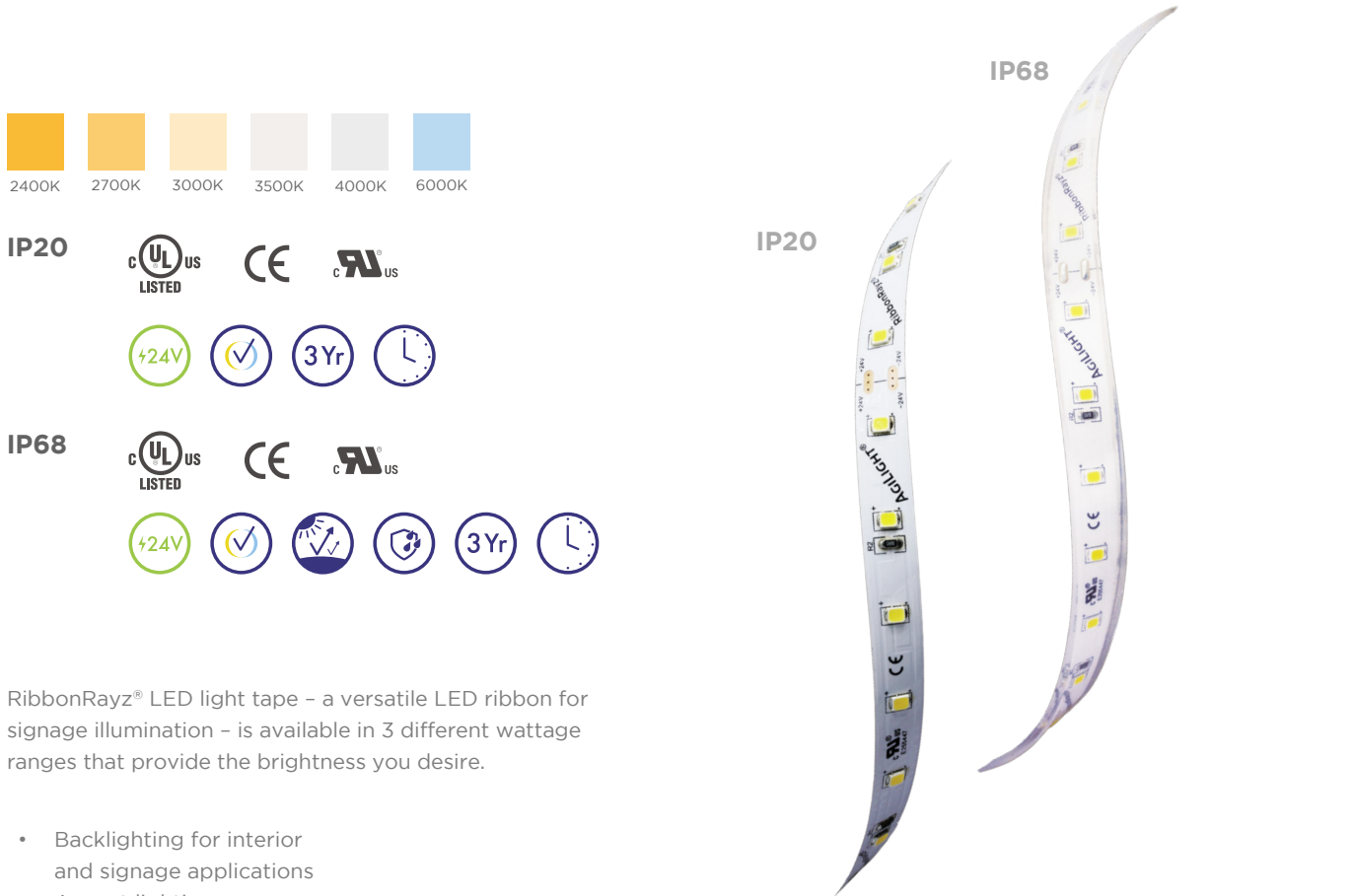
BoxRayz® EDGE 3.0						
Sign Type	Mounting Configuration	Depth (in.)	Reachout Length (ft)	Module Spacing (ft)	Lit Area/Module (ft²)	Optical Requirements on Housing Materials
Single Face (using 7328 white acrylic, 0.18")	On 1 edge	3	3	0.58	1.75	Reflective white surface inside
		4	3	0.67	2	
		5	3.5	0.83	2.92	
		6	3.5	1	3.5	
	On 2 opposite edges	3	2 x 2.5	0.58	1.46	Reflective white surface inside
		4	2 x 2.5	0.67	1.67	
		5	2 x 3	0.83	2.5	
Double Face (using 7328 white acrylic, 0.18")	On 1 edge	3	3	0.42	1.25	Reflective white surface inside
		4	3	0.5	1.5	
		5	3.5	0.75	2.63	
		6	3.5	0.75	2.63	
	On 2 opposite edges	3	2 x 2.5	0.42	1.04	Reflective white surface inside
		4	2 x 2.5	0.5	1.25	
		5	2 x 3	0.75	2.25	
		6	2 x 3.5	0.75	2.63	

BoxRayz® EDGE 3.0 Layout Guide (Metric)

BoxRayz® EDGE 3.0						
Sign Type	Mounting Configuration	Depth (mm)	Reachout Length (mm)	Module Spacing (mm)	Lit Area/Module (mm²)	Optical Requirements on Housing Materials
Single Face (using Plexiglas® WH73, 3mm)	On 1 edge	75	900	175	157500	Reflective white surface inside
		100	900	200	180000	
		125	1100	250	275000	
		150	1100	300	330000	
	On 2 opposite edges	75	2 X 750	175	131250	Reflective white surface inside
		100	2 X 750	200	150000	
		125	2 X 900	250	225000	
Double Face (using Plexiglas® WH73, 3mm)	On 1 edge	150	2 X 900	300	270000	
	On 1 edge	75	900	125	112500	Reflective white surface inside
		100	900	150	135000	
		125	1100	225	247500	
		150	1100	225	247500	
	On 2 opposite edges	75	2 X 750	125	93750	Reflective white surface inside
		100	2 X 750	150	112500	
		125	2 X 900	225	202500	
		150	2 X 1050	225	236250	

RIBBONRAYZ® LED LIGHT TAPE

A Bright And Versatile Option For Indoor And Outdoor Signage



RibbonRayz® LED light tape – a versatile LED ribbon for signage illumination – is available in 3 different wattage ranges that provide the brightness you desire.

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

RibbonRayz® IP20 Specs

Module	Dimensions (L x W)		LED Spacing		LED Pitch
RibbonRayz® IP20	4.92 x 0.39 in.	125 x 10 mm	0.7 in.	17.86 mm	7 LEDs per 125 mm

RibbonRayz® IP68 Specs

Module	Dimensions (L x W)		LED Spacing		LED Pitch
RibbonRayz® IP68	4.92 x 0.51 in.	125 x 13 mm	0.7 in.	17.86 mm	7 LEDs per 125 mm

RibbonRayz® IP20 Ordering Guide

RibbonRayz® IP20				
Wattage: 4.8 W/m, 7.26 W/m, 10.06 W/m Nominal	Efficacy: 112-129 lm/W	Nominal Light Output (lm): ³ 10%		
Part Number	Color Temp.	Lumens/m	Lumens/ft	Lumens/W
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 Ordering Guide

RibbonRayz® IP68				
Wattage: 4.8 W/m, 7.26 W/m, 10.06 W/m Nominal	Efficacy: 94-110 lm/W	Nominal Light Output (lm): ³ 10%		
Part Number	Color Temp.	Lumens/m	Lumens/ft	Lumens/W
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

LINERAYZ[®] BORDER TUBE

Premium Light Options For Building And Signage Edges

Green

Red

CE

RoHS

UL

US

LM-80

IP67

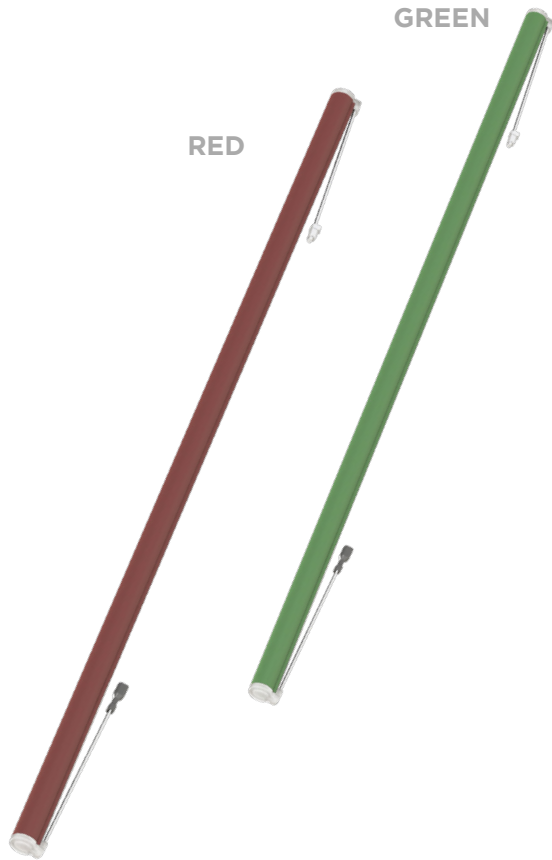
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5Yr

Accentuate your brand with the LineRayz[®] LED Border Tube. Continuously illuminate long distances in red for up to 183 feet (56 meters), and in green for up to 383 feet (117 meters) per 96W 24V DC power supply.

- Building border tube
- Replace neon accent lighting
- Cove lighting



LineRayz[®] Specs

Color	Length	Dimensions (L x Ø x H)		Field Cuttable
Red /Green	21 in. 0.5 m	21 x 0.75 x 0.95 in.	534 x 19.1 x 24 mm	Yes*
	28.3 in. 0.7 m	28.3 x 0.75 x 0 95 in.	719 x 19.1 x 24 mm	No
	49 in. 1.2 m	49 x 0.75 x 0.95 in.	1243 x 19.1 x 24 mm	No
	94 in. 2.4 m	94 x 0.75 x 0.95 in.	2387 x 19.1 x 24 mm	No

* Red (field cuttable) at 7.3 in. (185.5 mm) then every 0.87 in. (22mm)
Green (field cuttable) at 6.39 in. (162.25 mm) then every .74 in. (18.7 mm)



LineRayz[®] Red Ordering Guide

		LineRayz® Red			
Wattage: 1.62 W/m 0.49 W/ft	96W DC PS Loading: 54 m / 177 ft	Max Series Wiring: 30 m / 98 ft	Luminous Efficacy: 225 cd/m ² (+/- 10%)		
Part Number	Color	Wavelength	Tube** Wattage (W)	Wattage** per Meter (W)	Wattage** per Foot (W)
LB-LNRZ-RED-24-B	Red Pantone 186	620-625 nm source	3.69	1.62	0.49
LB-LNRZ-RED-12-B			1.92	1.62	0.49
LB-LNRZ-RED-07-B			1.09	1.62	0.49
LB-LNRZ-RED-5C-B			2.33	5.57	1.39

** +/- 5%

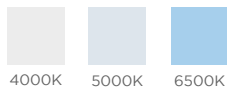
LineRayz[®] Green Ordering Guide

LineRayz® Green					
Wattage per Meter: 0.75 W/m 0.23 W/ft	96W DC PS Loading: 117 m / 383 ft	Max Series Wiring: 30 m / 98 ft	Luminous Efficacy: 335 cd/m ² (+/- 10%)		
Part Number	Color	Wavelength	Tube** Wattage (W)	Wattage** per Meter (W)	Wattage** per Foot (W)
LB-LNRZ-GRN-24-B	Green Pantone 368	525 nm source	1.73	0.75	0.23
LB-LNRZ-GRN-12-B			0.92	0.75	0.23
LB-LNRZ-GRN-07-B			0.54	0.75	0.23
LB-LNRZ-GRN-5C-B			1.19	2.23	0.54

** +/- 5%

RETRORAYZ[®]

Direct Replacement Of Fluorescent Lamps In Box And Cabinet Signs



RETRORAYZ[®] 500/700

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, 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 – assembled in the U.S. – offers 14 length options from 18 in. to 120 in. at 3 color temperatures (6500K, 5000K, 4100K). It also offers two levels of light output:

- RetroRayz[®] 500 at 500 lumens/ft
- RetroRayz[®] 700 at 700 lumens/ft

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.

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



24V RetroRayz[®] 500 Double-Sided Ordering Guide

Part Number	Color Temp	Nominal Length	Light Output *	Wattage	# of Bars Per 24V 96W PS	Weight	Compatible FL Lamp
LS-RTRZ5-018-65K-2DS	6500K	1 ft 6 in.	560 lm	4.9 W	18	0.4 lb	F18T12
LS-RTRZ5-018-50K-2DS	5000K	1 ft 6 in.	560 lm	4.9 W	18	0.4 lb	F18T12
LS-RTRZ5-018-40K-2DS	4000K	1 ft 6 in.	470 lm	4.9 W	18	0.4 lb	F18T12
LS-RTRZ5-024-65K-2DS	6500K	2 ft	840 lm	7.4 W	12	0.6 lb	F24T12
LS-RTRZ5-024-50K-2DS	5000K	2 ft	840 lm	7.4 W	12	0.6 lb	F24T12
LS-RTRZ5-024-40K-2DS	4000K	2 ft	710 lm	7.4 W	12	0.6 lb	F24T12
LS-RTRZ5-030-65K-2DS	6500K	2 ft 6 in.	1120 lm	9.9 W	9	0.8 lb	F30T12
LS-RTRZ5-030-50K-2DS	5000K	2 ft 6 in.	1120 lm	9.9 W	9	0.8 lb	F30T12
LS-RTRZ5-030-40K-2DS	4000K	2 ft 6 in.	940 lm	9.9 W	9	0.8 lb	F30T12
LS-RTRZ5-036-65K-2DS	6500K	3 ft	1400 lm	12.4 W	7	0.9 lb	F36T12
LS-RTRZ5-036-50K-2DS	5000K	3 ft	1400 lm	12.4 W	7	0.9 lb	F36T12
LS-RTRZ5-036-40K-2DS	4000K	3 ft	1180 lm	12.4 W	7	0.9 lb	F36T12
LS-RTRZ5-042-65K-2DS	6500K	3 ft 6 in.	1680 lm	14.8 W	6	1.1 lb	F42T12
LS-RTRZ5-042-50K-2DS	5000K	3 ft 6 in.	1680 lm	14.8 W	6	1.1 lb	F42T12
LS-RTRZ5-042-40K-2DS	4000K	3 ft 6 in.	1420 lm	14.8 W	6	1.1 lb	F42T12
LS-RTRZ5-048-65K-2DS	6500K	4 ft	1960 lm	17.3 W	5	1.3 lb	F48T12
LS-RTRZ5-048-50K-2DS	5000K	4 ft	1960 lm	17.3 W	5	1.3 lb	F48T12
LS-RTRZ5-048-40K-2DS	4000K	4 ft	1650 lm	17.3 W	5	1.3 lb	F48T12
LS-RTRZ5-060-65K-2DS	6500K	5 ft	2520 lm	22.2 W	4	1.7 lb	F60T12
LS-RTRZ5-060-50K-2DS	5000K	5 ft	2520 lm	22.2 W	4	1.7 lb	F60T12
LS-RTRZ5-060-40K-2DS	4000K	5 ft	2120 lm	22.2 W	4	1.7 lb	F60T12
LS-RTRZ5-064-65K-2DS	6500K	5 ft 4 in.	2800 lm	24.7 W	3	1.8 lb	F64T12
LS-RTRZ5-064-50K-2DS	5000K	5 ft 4 in.	2800 lm	24.7 W	3	1.8 lb	F64T12
LS-RTRZ5-064-40K-2DS	4000K	5 ft 4 in.	2360 lm	24.7 W	3	1.8 lb	F64T12
LS-RTRZ5-072-65K-2DS	6500K	6 ft	3080 lm	27.2 W	3	2 lb	F72T12
LS-RTRZ5-072-50K-2DS	5000K	6 ft	3080 lm	27.2 W	3	2 lb	F72T12
LS-RTRZ5-072-40K-2DS	4000K	6 ft	2600 lm	27.2 W	3	2 lb	F72T12
LS-RTRZ5-084-65K-2DS	6500K	7 ft	3640 lm	32.1 W	3	2.4 lb	F84T12
LS-RTRZ5-084-50K-2DS	5000K	7 ft	3640 lm	32.1 W	3	2.4 lb	F84T12
LS-RTRZ5-084-40K-2DS	4000K	7 ft	3070 lm	32.1 W	3	2.4 lb	F84T12
LS-RTRZ5-096-65K-2DS	6500K	8 ft	4200 lm	37.1 W	2	2.7 lb	F96T12
LS-RTRZ5-096-50K-2DS	5000K	8 ft	4200 lm	37.1 W	2	2.7 lb	F96T12
LS-RTRZ5-096-40K-2DS	4000K	8 ft	3540 lm	37.1 W	2	2.7 lb	F96T12
LS-RTRZ5-108-65K-2DS	6500K	9 ft	4760 lm	42.0 W	2	3.1 lb	F108T12
LS-RTRZ5-108-50K-2DS	5000K	9 ft	4760 lm	42.0 W	2	3.1 lb	F108T12
LS-RTRZ5-108-40K-2DS	4000K	9 ft	4010 lm	42.0 W	2	3.1 lb	F108T12
LS-RTRZ5-117-65K-2DS	6500K	9 ft 9 in.	5320 lm	47.0 W	2	3.3 lb	F117T12
LS-RTRZ5-117-50K-2DS	5000K	9 ft 9 in.	5320 lm	47.0 W	2	3.3 lb	F117T12
LS-RTRZ5-117-40K-2DS	4000K	9 ft 9 in.	4480 lm	47.0 W	2	3.3 lb	F117T12
LS-RTRZ5-120-65K-2DS	6500K	10 ft	5320 lm	47.0 W	2	3.4 lb	F120T12
LS-RTRZ5-120-50K-2DS	5000K	10 ft	5320 lm	47.0 W	2	3.4 lb	F120T12
LS-RTRZ5-120-40K-2DS	4000K	10 ft	4480 lm	47.0 W	2	3.4 lb	F120T12

* +/- 10%

12V RetroRayz® 500 Single-Sided Ordering Guide

Part Number	Color Temp	Nominal Length	Light Output *	Wattage	# of Bars Per 12V 96W PS	Weight	Compatible FL Lamp
LS-RTRZ5-018-65K-2SS	6500K	1 ft 6 in.	280 lm	2.5 W	22	0.4 lb	F18T12
LS-RTRZ5-018-50K-2SS	5000K	1 ft 6 in.	280 lm	2.5 W	22	0.4 lb	F18T12
LS-RTRZ5-018-40K-2SS	4000K	1 ft 6 in.	235 lm	2.5 W	22	0.4 lb	F18T12
LS-RTRZ5-024-65K-2SS	6500K	2 ft	420 lm	3.7 W	15	0.6 lb	F24T12
LS-RTRZ5-024-50K-2SS	5000K	2 ft	420 lm	3.7 W	15	0.6 lb	F24T12
LS-RTRZ5-024-40K-2SS	4000K	2 ft	355 lm	3.7 W	15	0.6 lb	F24T12
LS-RTRZ5-030-65K-2SS	6500K	2 ft 6 in.	560 lm	5.0 W	11	0.7 lb	F30T12
LS-RTRZ5-030-50K-2SS	5000K	2 ft 6 in.	560 lm	5.0 W	11	0.7 lb	F30T12
LS-RTRZ5-030-40K-2SS	4000K	2 ft 6 in.	470 lm	5.0 W	11	0.7 lb	F30T12
LS-RTRZ5-036-65K-2SS	6500K	3 ft	700 lm	6.2 W	9	0.8 lb	F36T12
LS-RTRZ5-036-50K-2SS	5000K	3 ft	700 lm	6.2 W	9	0.8 lb	F36T12
LS-RTRZ5-036-40K-2SS	4000K	3 ft	590 lm	6.2 W	9	0.8 lb	F36T12
LS-RTRZ5-042-65K-2SS	6500K	3 ft 6 in.	840 lm	7.4 W	7	1 lb	F42T12
LS-RTRZ5-042-50K-2SS	5000K	3 ft 6 in.	840 lm	7.4 W	7	1 lb	F42T12
LS-RTRZ5-042-40K-2SS	4000K	3 ft 6 in.	710 lm	7.4 W	7	1 lb	F42T12
LS-RTRZ5-048-65K-2SS	6500K	4 ft	980 lm	8.7 W	6	1.2 lb	F48T12
LS-RTRZ5-048-50K-2SS	5000K	4 ft	980 lm	8.7 W	6	1.2 lb	F48T12
LS-RTRZ5-048-40K-2SS	4000K	4 ft	825 lm	8.7 W	6	1.2 lb	F48T12
LS-RTRZ5-060-65K-2SS	6500K	5 ft	1260 lm	11.1 W	5	1.5 lb	F60T12
LS-RTRZ5-060-50K-2SS	5000K	5 ft	1260 lm	11.1 W	5	1.5 lb	F60T12
LS-RTRZ5-060-40K-2SS	4000K	5 ft	1060 lm	11.1 W	5	1.5 lb	F60T12
LS-RTRZ5-064-65K-2SS	6500K	5 ft 4 in.	1400 lm	12.4 W	4	1.6 lb	F64T12
LS-RTRZ5-064-50K-2SS	5000K	5 ft 4 in.	1400 lm	12.4 W	4	1.6 lb	F64T12
LS-RTRZ5-064-40K-2SS	4000K	5 ft 4 in.	1180 lm	12.4 W	4	1.6 lb	F64T12
LS-RTRZ5-072-65K-2SS	6500K	6 ft	1540 lm	13.6 W	4	1.8 lb	F72T12
LS-RTRZ5-072-50K-2SS	5000K	6 ft	1540 lm	13.6 W	4	1.8 lb	F72T12
LS-RTRZ5-072-40K-2SS	4000K	6 ft	1300 lm	13.6 W	4	1.8 lb	F72T12
LS-RTRZ5-084-65K-2SS	6500K	7 ft	1820 lm	16.1 W	3	2.2 lb	F84T12
LS-RTRZ5-084-50K-2SS	5000K	7 ft	1820 lm	16.1 W	3	2.2 lb	F84T12
LS-RTRZ5-084-40K-2SS	4000K	7 ft	1535 lm	16.1 W	3	2.2 lb	F84T12
LS-RTRZ5-096-65K-2SS	6500K	8 ft	2100 lm	18.6 W	3	2.4 lb	F96T12
LS-RTRZ5-096-50K-2SS	5000K	8 ft	2100 lm	18.6 W	3	2.4 lb	F96T12
LS-RTRZ5-096-40K-2SS	4000K	8 ft	1770 lm	18.6 W	3	2.4 lb	F96T12
LS-RTRZ5-108-65K-2SS	6500K	9 ft	2380 lm	21.0 W	2	2.8 lb	F108T12
LS-RTRZ5-108-50K-2SS	5000K	9 ft	2380 lm	21.0 W	2	2.8 lb	F108T12
LS-RTRZ5-108-40K-2SS	4000K	9 ft	2005 lm	21.0 W	2	2.8 lb	F108T12
LS-RTRZ5-117-65K-2SS	6500K	9 ft 9 in.	2660 lm	23.5 W	2	3 lb	F117T12
LS-RTRZ5-117-50K-2SS	5000K	9 ft 9 in.	2660 lm	23.5 W	2	3 lb	F117T12
LS-RTRZ5-117-40K-2SS	4000K	9 ft 9 in.	2240 lm	23.5 W	2	3 lb	F117T12
LS-RTRZ5-120-65K-2SS	6500K	10 ft	2660 lm	23.5 W	2	3.1 lb	F120T12
LS-RTRZ5-120-50K-2SS	5000K	10 ft	2660 lm	23.5 W	2	3.1 lb	F120T12
LS-RTRZ5-120-40K-2SS	4000K	10 ft	2240 lm	23.5 W	2	3.1 lb	F120T12

* +/- 10%

24V RetroRayz® 700 Double-Sided Ordering Guide

Part Number	Color Temp	Nominal Length	Light Output *	Wattage	# of Bars Per 24V 96W PS	Weight	Compatible FL Lamp
LS-RTRZ7-018-65K-2DS	6500K	1 ft 6 in.	840 lm	7.4 W	12	0.5 lb	F18T12
LS-RTRZ7-018-50K-2DS	5000K	1 ft 6 in.	840 lm	7.4 W	12	0.5 lb	F18T12
LS-RTRZ7-018-40K-2DS	4000K	1 ft 6 in.	710 lm	7.4 W	12	0.5 lb	F18T12
LS-RTRZ7-024-65K-2DS	6500K	2 ft	1400 lm	12.4 W	7	0.7 lb	F24T12
LS-RTRZ7-024-50K-2DS	5000K	2 ft	1400 lm	12.4 W	7	0.7 lb	F24T12
LS-RTRZ7-024-40K-2DS	4000K	2 ft	1180 lm	12.4 W	7	0.7 lb	F24T12
LS-RTRZ7-030-65K-2DS	6500K	2 ft 6 in.	1680 lm	14.8 W	6	0.9 lb	F30T12
LS-RTRZ7-030-50K-2DS	5000K	2 ft 6 in.	1680 lm	14.8 W	6	0.9 lb	F30T12
LS-RTRZ7-030-40K-2DS	4000K	2 ft 6 in.	1420 lm	14.8 W	6	0.9 lb	F30T12
LS-RTRZ7-036-65K-2DS	6500K	3 ft	1960 lm	17.3 W	5	1 lb	F36T12
LS-RTRZ7-036-50K-2DS	5000K	3 ft	1960 lm	17.3 W	5	1 lb	F36T12
LS-RTRZ7-036-40K-2DS	4000K	3 ft	1650 lm	17.3 W	5	1 lb	F36T12
LS-RTRZ7-042-65K-2DS	6500K	3 ft 6 in.	2520 lm	22.2 W	4	1.2 lb	F42T12
LS-RTRZ7-042-50K-2DS	5000K	3 ft 6 in.	2520 lm	22.2 W	4	1.2 lb	F42T12
LS-RTRZ7-042-40K-2DS	4000K	3 ft 6 in.	2120 lm	22.2 W	4	1.2 lb	F42T12
LS-RTRZ7-048-65K-2DS	6500K	4 ft	2800 lm	24.7 W	3	1.4 lb	F48T12
LS-RTRZ7-048-50K-2DS	5000K	4 ft	2800 lm	24.7 W	3	1.4 lb	F48T12
LS-RTRZ7-048-40K-2DS	4000K	4 ft	2360 lm	24.7 W	3	1.4 lb	F48T12
LS-RTRZ7-060-65K-2DS	6500K	5 ft	3640 lm	32.1 W	3	1.8 lb	F60T12
LS-RTRZ7-060-50K-2DS	5000K	5 ft	3640 lm	32.1 W	3	1.8 lb	F60T12
LS-RTRZ7-060-40K-2DS	4000K	5 ft	3070 lm	32.1 W	3	1.8 lb	F60T12
LS-RTRZ7-064-65K-2DS	6500K	5 ft 4 in.	3920 lm	34.6 W	2	2 lb	F64T12
LS-RTRZ7-064-50K-2DS	5000K	5 ft 4 in.	3920 lm	34.6 W	2	2 lb	F64T12
LS-RTRZ7-064-40K-2DS	4000K	5 ft 4 in.	3300 lm	34.6 W	2	2 lb	F64T12
LS-RTRZ7-072-65K-2DS	6500K	6 ft	4200 lm	37.1 W	2	2.2 lb	F72T12
LS-RTRZ7-072-50K-2DS	5000K	6 ft	4200 lm	37.1 W	2	2.2 lb	F72T12
LS-RTRZ7-072-40K-2DS	4000K	6 ft	3540 lm	37.1 W	2	2.2 lb	F72T12
LS-RTRZ7-084-65K-2DS	6500K	7 ft	5040 lm	44.5 W	2	2.6 lb	F84T12
LS-RTRZ7-084-50K-2DS	5000K	7 ft	5040 lm	44.5 W	2	2.6 lb	F84T12
LS-RTRZ7-084-40K-2DS	4000K	7 ft	4250 lm	44.5 W	2	2.6 lb	F84T12
LS-RTRZ7-096-65K-2DS	6500K	8 ft	5880 lm	51.9 W	1	3 lb	F96T12
LS-RTRZ7-096-50K-2DS	5000K	8 ft	5880 lm	51.9 W	1	3 lb	F96T12
LS-RTRZ7-096-40K-2DS	4000K	8 ft	4960 lm	51.9 W	1	3 lb	F96T12
LS-RTRZ7-108-65K-2DS	6500K	9 ft	6440 lm	56.9 W	1	3.3 lb	F108T12
LS-RTRZ7-108-50K-2DS	5000K	9 ft	6440 lm	56.9 W	1	3.3 lb	F108T12
LS-RTRZ7-108-40K-2DS	4000K	9 ft	5430 lm	56.9 W	1	3.3 lb	F108T12
LS-RTRZ7-117-65K-2DS	6500K	9 ft 9 in.	7280 lm	64.3 W	1	3.6 lb	F117T12
LS-RTRZ7-117-50K-2DS	5000K	9 ft 9 in.	7280 lm	64.3 W	1	3.6 lb	F117T12
LS-RTRZ7-117-40K-2DS	4000K	9 ft 9 in.	6140 lm	64.3 W	1	3.6 lb	F117T12
LS-RTRZ7-120-65K-2DS	6500K	10 ft	7280 lm	64.3 W	1	3.7 lb	F120T12
LS-RTRZ7-120-50K-2DS	5000K	10 ft	7280 lm	64.3 W	1	3.7 lb	F120T12
LS-RTRZ7-120-40K-2DS	4000K	10 ft	6140 lm	64.3 W	1	3.7 lb	F120T12

* +/- 10%

12V RetroRayz® 700 Single-Sided Ordering Guide

Part Number	Color Temp	Nominal Length	Light Output *	Wattage	# of Bars Per 12V 96W PS	Weight	Compatible FL Lamp
LS-RTRZ7-018-65K-2SS	6500K	1 ft 6 in.	420 lm	3.7 W	15	0.5 lb	F18T12
LS-RTRZ7-018-50K-2SS	5000K	1 ft 6 in.	420 lm	3.7 W	15	0.5 lb	F18T12
LS-RTRZ7-018-40K-2SS	4000K	1 ft 6 in.	355 lm	3.7 W	15	0.5 lb	F18T12
LS-RTRZ7-024-65K-2SS	6500K	2 ft	700 lm	6.2 W	9	0.6 lb	F24T12
LS-RTRZ7-024-50K-2SS	5000K	2 ft	700 lm	6.2 W	9	0.6 lb	F24T12
LS-RTRZ7-024-40K-2SS	4000K	2 ft	590 lm	6.2 W	9	0.6 lb	F24T12
LS-RTRZ7-030-65K-2SS	6500K	2 ft 6 in.	840 lm	7.4 W	7	0.8 lb	F30T12
LS-RTRZ7-030-50K-2SS	5000K	2 ft 6 in.	840 lm	7.4 W	7	0.8 lb	F30T12
LS-RTRZ7-030-40K-2SS	4000K	2 ft 6 in.	710 lm	7.4 W	7	0.8 lb	F30T12
LS-RTRZ7-036-65K-2SS	6500K	3 ft	980 lm	8.7 W	6	0.9 lb	F36T12
LS-RTRZ7-036-50K-2SS	5000K	3 ft	980 lm	8.7 W	6	0.9 lb	F36T12
LS-RTRZ7-036-40K-2SS	4000K	3 ft	825 lm	8.7 W	6	0.9 lb	F36T12
LS-RTRZ7-042-65K-2SS	6500K	3 ft 6 in.	1260 lm	11.1 W	5	1 lb	F42T12
LS-RTRZ7-042-50K-2SS	5000K	3 ft 6 in.	1260 lm	11.1 W	5	1 lb	F42T12
LS-RTRZ7-042-40K-2SS	4000K	3 ft 6 in.	1060 lm	11.1 W	5	1 lb	F42T12
LS-RTRZ7-048-65K-2SS	6500K	4 ft	1400 lm	12.4 W	4	1.2 lb	F48T12
LS-RTRZ7-048-50K-2SS	5000K	4 ft	1400 lm	12.4 W	4	1.2 lb	F48T12
LS-RTRZ7-048-40K-2SS	4000K	4 ft	1180 lm	12.4 W	4	1.2 lb	F48T12
LS-RTRZ7-060-65K-2SS	6500K	5 ft	1820 lm	16.1 W	3	1.6 lb	F60T12
LS-RTRZ7-060-50K-2SS	5000K	5 ft	1820 lm	16.1 W	3	1.6 lb	F60T12
LS-RTRZ7-060-40K-2SS	4000K	5 ft	1535 lm	16.1 W	3	1.6 lb	F60T12
LS-RTRZ7-064-65K-2SS	6500K	5 ft 4 in.	1960 lm	17.3 W	3	1.8 lb	F64T12
LS-RTRZ7-064-50K-2SS	5000K	5 ft 4 in.	1960 lm	17.3 W	3	1.8 lb	F64T12
LS-RTRZ7-064-40K-2SS	4000K	5 ft 4 in.	1650 lm	17.3 W	3	1.8 lb	F64T12
LS-RTRZ7-072-65K-2SS	6500K	6 ft	2100 lm	18.6 W	3	1.9 lb	F72T12
LS-RTRZ7-072-50K-2SS	5000K	6 ft	2100 lm	18.6 W	3	1.9 lb	F72T12
LS-RTRZ7-072-40K-2SS	4000K	6 ft	1770 lm	18.6 W	3	1.9 lb	F72T12
LS-RTRZ7-084-65K-2SS	6500K	7 ft	2520 lm	22.3 W	2	2.3 lb	F84T12
LS-RTRZ7-084-50K-2SS	5000K	7 ft	2520 lm	22.3 W	2	2.3 lb	F84T12
LS-RTRZ7-084-40K-2SS	4000K	7 ft	2125 lm	22.3 W	2	2.3 lb	F84T12
LS-RTRZ7-096-65K-2SS	6500K	8 ft	2940 lm	26 W	2	2.6 lb	F96T12
LS-RTRZ7-096-50K-2SS	5000K	8 ft	2940 lm	26 W	2	2.6 lb	F96T12
LS-RTRZ7-096-40K-2SS	4000K	8 ft	2480 lm	26 W	2	2.6 lb	F96T12
LS-RTRZ7-108-65K-2SS	6500K	9 ft	3220 lm	28.5 W	2	2.9 lb	F108T12
LS-RTRZ7-108-50K-2SS	5000K	9 ft	3220 lm	28.5 W	2	2.9 lb	F108T12
LS-RTRZ7-108-40K-2SS	4000K	9 ft	2715 lm	28.5 W	2	2.9 lb	F108T12
LS-RTRZ7-117-65K-2SS	6500K	9 ft 9 in.	3640 lm	32.2 W	1	3.1 lb	F117T12
LS-RTRZ7-117-50K-2SS	5000K	9 ft 9 in.	3640 lm	32.2 W	1	3.1 lb	F117T12
LS-RTRZ7-117-40K-2SS	4000K	9 ft 9 in.	3070 lm	32.2 W	1	3.1 lb	F117T12
LS-RTRZ7-120-65K-2SS	6500K	10 ft	3640 lm	32.2 W	1	3.2 lb	F120T12
LS-RTRZ7-120-50K-2SS	5000K	10 ft	3640 lm	32.2 W	1	3.2 lb	F120T12
LS-RTRZ7-120-40K-2SS	4000K	10 ft	3070 lm	32.2 W	1	3.2 lb	F120T12

* +/- 10%

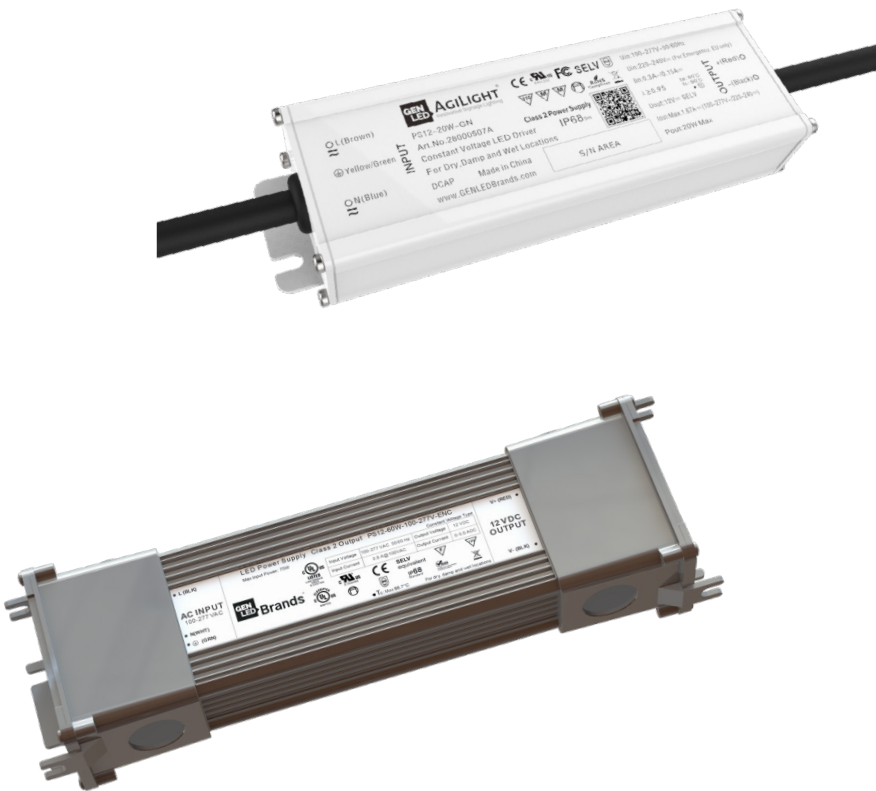
POWER SUPPLIES

High-Performance Drivers Designed for Outdoor LED Signage Applications

We’ve streamlined our power supply selection to include the most durable and dependable group of high-performance 12V and 24V Class 1 and Class 2 drivers with options ranging from 20 to 300 Watts. Designed specifically for outdoor LED signage applications, each of these drivers includes enhanced thermal management that increases reliability and lifespan for both the power supply and the lighting elements.

Our new drivers feature improved overage protections for:

- Power surges
- High temperatures
- Short circuits
- Power overloads



20-35W 12V Power Supplies

		
Product Description	20W 12V GN	35W 12V GN
Part Number	PS12-20W-GN / 28000507A	PS12-35W-GN / 28000508A
Rated Supply Voltage	100 -277V AC	
Output Current Range	0 - 1.67A	0 - 2.9A
Output Power Range	0 - 20W	0 - 35W
Dimensions (L x W x H)	5.47 x 1.61 x 0.91 in. (139 x 41 x 23 mm)	7.6 x 1.58 x 0.83 in. (193 x 40 x 21 mm)
IP Rating	IP68	IP67

60W 12V Power Supplies

			
Product Description	60W 12V ENC	60W 12V GC	60W 12V GN
Part Number	PS12-12V-ENC-60W	PS12-60W-GC / 28000509AN	PS12-60W-GN / 28000509A
Rated Supply Voltage	100 -277V AC		
Output Current Range	5.00A DC (Max.)	0 - 5.0A	0 - 5.0A
Output Power Range	60W DC (Max.)	0 - 60W	0 - 60W
Dimensions (L x W x H)	10.98 x 3.23 x 2.03 in. (279 x 82 x 52 mm)	10.86 x 1.58 x 1.14 in. (275.75 x 40 x 29 mm)	9.37 x 1.58 x 0.83 in. (238 x 40 x 21 mm)
IP Rating	IP68	IP67	IP67

100-200W 12V Power Supplies

			
Product Description	100W 12V GN	180W 12V 3-Channel	200W 12V GN
Part Number	PS12-100W-GN / 28000510A	12V-180W-3-GN / 28000515A	PS12-200W-GN / 28000511A
Rated Supply Voltage	100 -277V AC		
Output Current Range	0 - 8.33A	0 - 5.0A x 3 Channels	0 - 16.6A
Output Power Range	0 - 100W	0 - 180W	0 - 200W
Dimensions (L x W x H)	10.63 x 1.58 x 0.91 in. (270 x 40 x 23 mm)	10.28 x 3.46 x 1.5 in. (261 x 88 x 38 mm)	9.84 x 2.66 x 1.38 in. (250 x 67.5 x 35 mm)
IP Rating	IP67	IP67	IP68

30-60W 24V Power Supplies

		
Product Description	30W 24V GN	60W 24V GN
Part Number	PS24-30W-GN	PS24-60W-GN
Rated Supply Voltage	100 -277V AC	
Output Current Range	0 - 1.25A	0 - 2.5A
Output Power Range	0 - 30W	0 - 60W
Dimensions (L x W x H)	7.36 x 1.61 x 1.14 in. (187 x 41 x 29 mm)	7.95 x 1.73 x 1.34 in. (202 x 44 x 34 mm)
IP Rating	IP68	IP68

100-300W 24V Power Supplies

		
Product Description	100W 24V GN	300W 24V GN
Part Number	PS24-100W-GN	PS24-300W-3-GN
Rated Supply Voltage	100 -277V AC	
Output Current Range	0 - 4.16A	0 - 4.16A x 3 Channels
Output Power Range	0 - 100W	0 - 300W
Dimensions (L x W x H)	8.46 x 2.66 x 1.38 in. (215 x 67.5 x 35 mm)	11.22 x 2.95 x 1.63 in. (285 x 75 x 41.5 mm)
IP Rating	IP68	IP68



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