



SIGNRAYZ[®] PRO 160 2B1



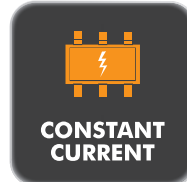
Global Color Consistency



Waterproof Encapsulation



Advanced Optics



CONSTANT CURRENT



UV RESISTANT



50,000 HRS
L70 LIFETIME

Ordering Information

Part Number	White Color Temperature	Number of Modules		Nominal Light Output (lm)*		
		per Foot	per Meter	per Module	per Foot	per Meter
LS-PRO160-ASW-2B1	AgiLight SignWhite	2	6	85	170	510
LS-PRO160-65K-2B1	6500K	2	6	85	170	510
LS-PRO160-57K-2B1	5700K	2	6	85	170	510
LS-PRO160-50K-2B1	5000K	2	6	85	170	510
LS-PRO160-45K-2B1	4500K	2	6	72	144	432
LS-PRO160-41K-2B1	4100K	2	6	72	144	432
LS-PRO160-30K-2B1	3000K	2	6	72	144	432
LS-PRO160-27K-2B1	2700K	2	6	72	144	432

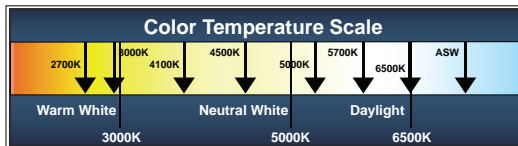
*±10%

Product Ratings

Luminous Efficacy	109 lm/ W
Max. Wattage per Module	0.82 W (0.78 W Nom.)
Input Current	0.065 A/ module
Power Supply	70 modules per 60W power supply max.
Ingress Protection	IP68
Operating Temperature	-40°C to +60°C (-40°F to +140°F)
L70 Lifetime	50,000 hours
Warranty	5 Year limited

Applications

- Large or medium channel letters
- Wide stroke channel letters
- Advertisement displays
- Dark vinyls
- Shallow channel letters
- Shallow box signs
- Cloud signs
- Logo boxes
- Push through acrylic
- Cove lighting
- Accent lighting

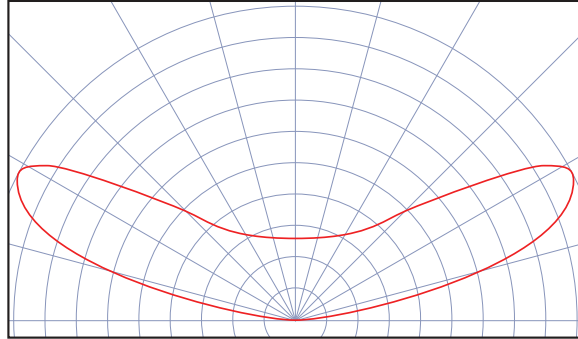


Part Number Guide

LED Sign	Module Type	Color Temperature	# of Modules per foot	Beam Pattern
LS	-PRO160	-65K	-2	B1

Luminous Intensity Distribution

B1 Batwing Beam Pattern



Population Density Guide¹

Channel Depth (inch mm)	Max. Single Stroke (inch mm)	Max. Multiple Row (inch mm)
2 50	5 127 ²	5 127 ²
3 75	9 229 ³	8 203 ³
4 100	12 305	12 305
5 125	16 406	15 381
6 150	14 356 ⁴	16 406
7 180	12 305 ⁴	15 381 ⁴

1. Modules are spaced with wires at full stretch, unless noted otherwise. 7328 White Acrylic was used to test the face light uniformity; other face materials may vary the module and row spacing for the same face light uniformity and brightness.
2. Modules' center to center spacing is at 4" | 100 mm
3. Modules' center to center spacing is at 4.75" | 120 mm
4. Module spacing is defined to achieve ~ 600 lux at the sign face (7328 White)

Power Supply Load Chart

LED Module type	LS-PRO160-xxx-2B1			
Power Supply (Wired in parallel strings)	Maximum # of Modules per String	Total # of Modules	Total # of Feet	Total # of Meters
12 W	14	14	7.0	2.3
15 W	18	18	9.0	3.0
35W	41	41	20.5	6.8
60W	70	70	35.0	11.7
100W	70	115	57.5	19.2
150W	70	173	86.5	28.8
180W	70	208	104.0	34.7
220W	70	254	127.0	42.3

Note:

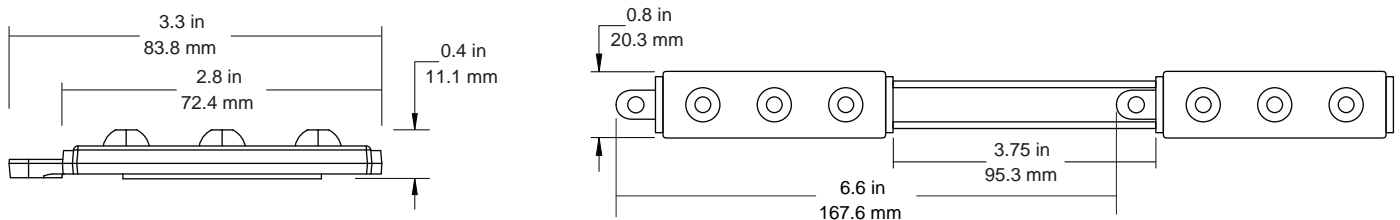
1. 12W, 15W, 35W and 60W are UL rated Class 2 Power Output.
2. 100W, 150W, 180W and 220W are UL rated Class 1 Power Output.
3. For UL rated Class 1 power supplies, please find wiring details in "Installation Guide - Wiring Instructions for Class 1 Power Supplies to LED Modules".

LED Module to Power Supply Wire Size

Wire Size		Maximum Distance*	
Gauge (AWG)	Metric (mm ²)	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 load at full capacity.

LED Module Dimensions



Shipping Information

Model	Bag Quantity	Box Quantity	Case Quantity	Case Weight	Box Dimensions			Case Dimensions		
					W	D	H	W	D	H
LS-PRO160-xxx-2B1	40 Modules	200 Modules	1000 Modules							
	20 (ft)	100 (ft)	500 (ft)	50 (lb)	20.7"	11.8"	5.1"	27"	21.1"	12.4"
	6.7 (m)	33.3 (m)	166.7 (m)	22.7 (kg)	525mm	300mm	130mm	685mm	537mm	315mm



CAUTIONS

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