



PRO COLOR — With its small footprint, PRO COLOR modules are suitable for small and narrow letters and shallow to medium depth box signs.

Applications:

- Channel letters
- Cove lighting
- Accent lighting



12V DC



5 YEAR LIMITED WARRANTY



RoHS



IP68

LM-79

LM-80



VERSALENZ[®]
ADVANCED OPTICS



CAPZUL[®]
WATERPROOF



CONSTANT CURRENT



UV RESISTANT



50,000 HRS
L70 LIFETIME

ORDERING GUIDE

Part Number	Color	Module Spacing (mm)	Max Wattage Per Module	Number of Modules		Nominal Light Output (lm)*		
				Per Foot	Per Meter	Per Module	Per Foot	Per Meter
LS-PROCLR-TRD-2B5B	True Red (625 nm)	152	0.44 W	2	6.56	12.5	25	82.50
LS-PROCLR-BLU-2B5B	Blue (467 nm)	152	0.50 W	2	6.56	7.7	15.4	50.80
LS-PROCLR-GRN-2B5B	Green (530 nm)	152	0.39 W	2	6.56	20.3	40.6	134
LS-PROCLR-YLW-2B5B	Yellow (589 nm)	152	0.63 W	2	6.56	11.6	23.2	76.6

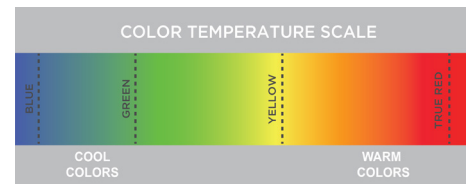
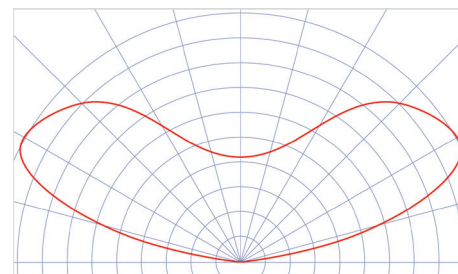
* ± 10%

PRODUCT RATINGS

Luminous Efficacy	True Red: 29.8 lm/W Blue: 16 lm/W Green: 54.9 lm/W Yellow: 19.3 lm/W
Input Voltage	12 V DC
Input Current	True Red: 35 mA Blue: 40 mA Green: 31 mA Yellow: 50 mA
Nominal Wattage	True Red: 0.42 W Blue: 0.48 W Green: 0.37 W Yellow: 0.60 W
Power Supply Loading	Max. TRD 131, BLU 112, GRN 148, YLW 70
Ingress Protection	IP68
Operating Temperature	-40° — +140° F (-40° — +60° C)
L70 Lifetime @ 60° C	50,000 Hours
Warranty	5 Year Limited Warranty

LUMINOUS INTENSITY DISTRIBUTION

B5 Beam Pattern



MODULE DIMENSIONS

Part Number	Length (in/mm)	Width (in/mm)	Height (in/mm)
LS-PROCLR-xxx-2B5	1.99/50.6	0.61/15.5	0.49/12.4

REV: 30OCT2019

Data sheet subject to change without notice.



POWER SUPPLY LOADING

Model		True Red			
Class 2 Power Supplies		12 W			
Wiring Options (See Diagram)	Max # of Modules per String	Total # of Modules	Total # of Feet	Total # of Meters	
Single String	28	28	14.1	4.4	
Class 2 Power Supplies		60W			
Wiring Options (See Diagram)	Max # of Modules per String	Total # of Modules	Total # of Feet	Total # of Meters	
Single String	100	100	50	15.2	
Multiple Strings (Parallel)	100	131	65.3	19.9	
Class 1 Power Supplies		Max # of Modules per String	Total # of Modules	Total # of Feet	Total # of Meters
100W	100	219	109.3	33.3	
150W	100	238	163.7	49.9	
220W	100	481	239.8	73.1	

Model		Blue			
Class 2 Power Supplies		12 W			
Wiring Options (See Diagram)	Max # Modules per String	Total # of Modules	Total # of Feet	Total # of Meters	
Single String	22	22	11	3.4	
Class 2 Power Supplies		60W			
Wiring Options (See Diagram)	Max # Modules per String	Total # of Modules	Total # of Feet	Total # of Meters	
Single String	100	100	50	15.2	
Multiple Strings (Parallel)	100	112	56	17.1	
Class 1 Power Supplies		Max # Modules per String	Total # of Modules	Total # of Feet	Total # of Meters
100W	100	180	90	27.4	
150W	100	270	135	41.2	
220W	100	396	198	60.4	

Model		Green			
Class 2 Power Supplies		12 W			
Wiring Options (See Diagram)	Max # Modules per String	Total # of Modules	Total # of Feet	Total # of Meters	
Single String	29	29	14.4	4.4	
Class 2 Power Supplies		60W			
Wiring Options (See Diagram)	Max # Modules per String	Total # of Modules	Total # of Feet	Total # of Meters	
Single String	100	100	50	15.2	
Multiple Strings (Parallel)	100	148	73.8	22.5	
Class 1 Power Supplies		Max # Modules per String	Total # of Modules	Total # of Feet	Total # of Meters
100W	100	245	122	37.2	
150W	100	370	184	56.2	
220W	100	540	269	82.1	



POWER SUPPLY LOADING

Model		Yellow			
Class 2 Power Supplies		12 W			
Wiring Options (See Diagram)	Max # Modules per String	Total # of Modules	Total # of Feet	Total # of Meters	
Single String	18	18	9	2.7	
Class 2 Power Supplies		60W			
Wiring Options (See Diagram)	Max # Modules per String	Total # of Modules	Total # of Feet	Total # of Meters	
Single String	80	80	40	12.2	
Multiple Strings (Parallel)	80	90	45	13.7	
Class 1 Power Supplies		Max # Modules per String	Total # of Modules	Total # of Feet	Total # of Meters
100W	80	142	71	21.6	
150W	80	214	107	32.5	
220W	80	314	157	47.7	

LED MODULE TO POWER SUPPLY WIRE SIZE

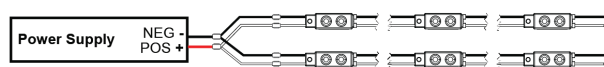
Wire Size		Maximum Distance*	
Gauge (AWG)	Metric (mm ²)	Feet	Meters
26	0.13	3	0.9
24	0.21	4	1.2
22	0.33	7	2.1
20	0.52	11	3.4
18	0.82	18	5.5
16	1.31	29	8.8
14	2.08	45	13.7
12	3.31	71	21.6
10	5.26	120	36.6

*Distance from 60W power supply to 100% load

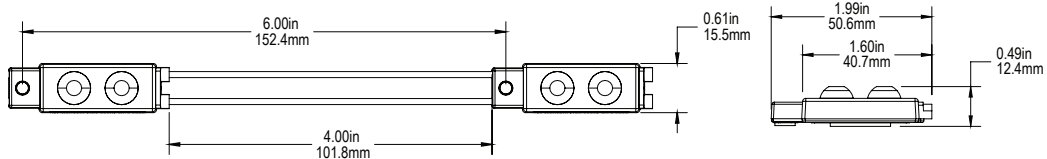
Single LED String:



Parallel LED Strings:



DIMENSION DRAWING



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.



SHIPPING INFORMATION

Module Type	Specs	Packaging Quantity			Case Weight	Box Dimensions			Case Dimensions			
		Per Bag	Per Box	Per Case		W	D	H	W	D	H	
LS-PROCLR-xxx-2B5	Modules	40	200	1000	33.5 lbs 15.2kg	19.7	9.6	4.1	23.0	20.3	10.6	inch
	Feet	20	100	500								
	Meters	6.1	30.5	152.4		500	245	105	585	515	270	

LAYOUT GUIDE*

Module Color (Face)	True Red (2793 Plex)		Blue (7328 Acrylic w/ Vinyl)		Green (7328 Acrylic w/ Vinyl)		Yellow (7328 Acrylic w/ Vinyl)	
	Single Row		Single Row		Single Row		Single Row	
	Max. Stroke	Module Spacing	Max. Stroke	Module Spacing	Max. Stroke	Module Spacing	Max. Stroke	Module Spacing
2	3.5	3	5.5	3.75	3.5	3.5	4.5	4
3	5.5	3.5	7	4.5	5.5	4	5.5	4.5
4	7	6	8	6	6.5	4.5	6.5	5
5	8	6	9	6	9	6	6	4.75
(mm)								
50	89	76	140	95	89	89	114	102
75	140	89	178	114	140	102	140	114
100	178	152	203	152	165	114	165	127
125	203	152	229	152	229	152	152	121

Module Color (Face)	True Red (2793 Plex)		Blue (7328 Acrylic w/ Vinyl)		Green (7328 Acrylic w/ Vinyl)		Yellow (7328 Acrylic w/ Vinyl)	
	Multirow		Multirow		Multirow		Multirow	
	Max. Stroke	Module Spacing	Max. Stroke	Module Spacing	Max. Stroke	Module Spacing	Max. Stroke	Module Spacing
2	3.75	3.75	4	3.5	3	3	4.5	3.5
3	5.5	3.25	6.5	4	5	3.5	5	4.5
4	7	4	7.5	4.5	6.5	4.5	6	6
5	8	6	8	6	8	6	6	6
(mm)								
50	95	95	102	89	76	76	114	89
75	140	82	165	102	127	89	127	114
100	178	102	190	114	165	114	152	152
125	203	152	203	152	203	152	152	152

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