

# liniLED® PSP (Power Short Pitch)

FLEXIBLE LINEAR LED MODULE - 237-257 LUMENS FT. - 2.98 W./FT.



## POWER SHORT PITCH WHITE SPECIFICATION



247 Lumens/ft for only 2.89W/ft. Truly energy saving. liniLED® Power Short Pitch is the most powerful specification grade IP68 waterproof flexible and dimmable LED light strip, not requiring heat sinking. Very low energy, very low heat equals reliability and the longest life possible. Direct or

indirect view, as functional or decorative lighting for coves, backlighting, building outlining, signs, marine applications. No UV or IR. Indoors and outdoors. Co-extruded with built in reflectors the highly flexible UV stabilized, optically clear PVC seals LEDs for permanent protection against adverse environments and handling. Rapid mounting in 33' long runs with "Solder free" push-fit connectors.

2 models - TOP and SIDE; SIDE enables horizontal bends to be made for curves or columns, and is extruded with an asymmetric reflector.

Specially designed circuitry and Osram DurisE3 Power LEDs, ensure color stability and exceptionally cool operation for longest LED life. Pulse Width Modulation or 0-10v dimmable for smooth dimming control. Plugand Play system design simplifies installation and specification.

### liniLED PSP COLOR - SPECIFICATIONS

<b>LED</b>	SMD OSRAM Duris™ E3
<b>Number of LEDs</b>	3 per in/ 37 per foot,
<b>LED Color</b>	Cold White, 6.5k / Natural White 4k / Warm White, 3k / Warm White 2.7k - CRI 85
<b>Beam / Flux</b>	110°; Cold & Natural White - 257.9 lumen/ft Warm White - 237.8 lumen/ft
<b>Dimensions</b>	TOP: H 0.25" x W 0.50" (H6xW12mm)
<b>Length (m)</b>	Up to 33ft (10m) continuous runs, field cuttable every 2" (5cm). 33' reel
<b>Bend Radius</b>	1.2" (30mm)
<b>Indoor or Outdoor (IP68)</b>	Wet location (protected connectors)
<b>Watts and Voltage</b>	24VDC; 3 W/ft. (9.7W/m).
<b>Material</b>	UV/IR protected PVC. Resistant to salt water, chlorine and solvents
<b>Dimmable- electronic:</b>	1-10v ; Pulse Width Modulation; DMX.
<b>- magnetic:</b>	2 Wire low voltage. (Magnetic Power supplies)
<b>Life</b>	>50,000 hours ; 5 years limited warranty
<b>24VDC</b>	Select appropriate wattage power supplies, according to run length and number of runs
<b>Accessories</b>	Dimming controllers; Clear PET adhesive backed mounting channel; mounting saddles; power cord sets; extension cords; aluminum extrusions and diffusers

<b>Cold White</b> 6500K	<b>Natural White</b> 4000K	<b>Warm White</b> 3000K	<b>Warm White</b> 2700K
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### liniLED PSP TOP

Extruded reflector with optically clear encapsulation of LEDs.

**Dimensions:** 1/4" h x 1/2" w

**Curving Direction:**

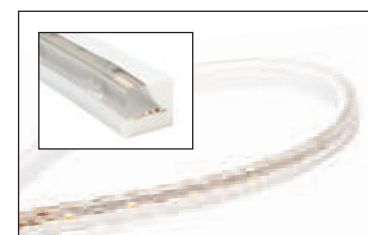


### liniLED PSP SIDE

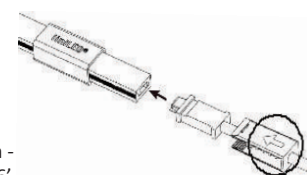
Extruded reflector with optically clear encapsulation of LEDs.

**Dimensions:** 1/2" h x 1/2" w

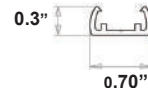
**Curving Direction:**



**Power Connector Set**, Push fit connection - no stripping or soldering required. 3' or 16'.



### MOUNTING & DIMENSIONS



**Mounting Channel**, Clear PET self-adhesive backed, grips liniLED tightly for perfectly straight runs in minimum space. Apply to coves, surfaces or inside liniLED aluminum extrusions. Cut with scissors or craft knife.



**Mounting Saddle** - screw mounting with tie wrap to secure strip.

RoHS. UL, ETLcs, CE

POWER SHORT PITCH WHITE SPECIFICATION

TECHNICAL DATA

Description	Length	No. of LEDs (per ft)	V/DC	Current (A)	Color	CRI	Lumens (ft)	CD/ft	W/ft	Bin
Cold White	2" - 33ft	37	24	0.28	6500K	90	257.9		2.89	Fine <3mcd
Natural White	2" - 33ft	37	24	0.28	4000K	90	257.9		2.89	Fine <3mcd
Warm White	2" - 33ft	37	24	0.28	3000K	90	237.8		2.89	Fine <3mcd
Warm White	2" - 33ft	37	24	0.28	2700K	90	237.8		2.89	Fine <3mcd

ORDERING liniLED

1. PART#  PSP-	<b>TOP</b>	<b>SIDE</b>
	CW - Cold White <b>011734</b>	CW - Cold White <b>011738</b>
	NW - Natural White <b>011733</b>	NW - Natural White <b>011737</b>
	WW - Warm White <b>011732</b>	WW - Warm White <b>011736</b>
	WW - Warm White <b>011731</b>	WW - Warm White <b>011735</b>

liniLED<sup>®</sup> THE DIFFERENCE

Specification Grade.

Made entirely in the EU / USA.

The LEDs are the latest Osram Topled they have the highest light output for the lowest energy, offering energy savings of upto 80% for cove lighting applications.. Protected with IP68 PVC encapsulation, with a hollow chamber protecting phosphors against color shift. By partnering with Osram we know the source of the LEDs and the packaging (assembly) process. - The only way to ensure repeatability over time with LEDs is to know the source of every component, from the copper foil to the last resistor.

Osram's binning for mid-range LEDs is arguably the best in the world, which means that the color matching both initially and for the life of the LEDs is consistent. LiniLED binning is better than 3 MacAdam ellipses.. The liniLED circuit is a patented custom design, with top level electronic components and an IC every 8" to further control the input to the LEDs, protecting them against color shift and reduced LED life. LiniLED is a superior product to Osrams normal standards.

A simple but convincing test is to run liniLED and hold the strip in your hand. There will be no perceptible heat in comparison with other products. With LEDs heat is the killer!

One of the most common misunderstandings is that you can place LEDs in inaccessible places because they are solid state, are shockproof and have a long life. LEDs are all of that, but they are operated by computerized electronic circuits on PC boards with many more components, which is why we seal and protect liniLED against all the elements, but ensure that maintenance and future replacement are feasible.

liniLED is the best and most energy efficient product of it's kind! Our design and automated production makes it affordable and the least expensive product to install.

For a full list of components and accessories see Accessories page.

## 1. SELECT PRODUCT AND COLOR



### liniLED Top PSP

- Choose run length
- Dimensions 1/4" h x 1/2" w
- Max. 33' continuous run
- Cutable length 2"
- Minimum order 3'

### Specify Color

Cool White 6500K	<b>011734</b>
Natural White 4000K	<b>011733</b>
Warm White 3000K	<b>011732</b>
Warm White 2700K	<b>011731</b>



### liniLED Side PSP

- Choose run length
- Dimensions 1/2" h x 1/2" w
- Max. 33' continuous run
- Cutable length 2"
- Minimum order 3'

### Specify Color

Cool White 6500K	<b>011738</b>
Natural White 4000K	<b>011737</b>
Warm White 3000K	<b>011736</b>
Warm White 2700K	<b>011735</b>

## 2. CONNECTING



### Push-fit Power Connector sets

Supplied with termination end cap

3' Mono Color TOP	011200
16' Mono Color TOP	011201
3' Mono Color Side	011202
16' Mono Color Side	011203
3' RGB Color Top	011204
16' RGB Color Top	011205
3' RGB Color Side	011206
16' RGB Color Side	011207



### Inline Connector to Connect Strips

Mono Color TOP	011790
RGB TOP	011747



### Extension Connector Cord

Extension cord to connect strips with 10" cable in between.

Mono Color Top	011208
Mono Color Side	011209
RGB Color Top	011210
RGB Color Side	011211



### Protective End Cap

End Cap Top	011503
End Cap Side	011504



**IP68 Submersible Cover Kit Top** 011506  
includes both covers for both ends.



**IP68 Submersible Cover Side** 011533  
includes cover for one end.

## 3. MOUNTING



### Mounting Channel

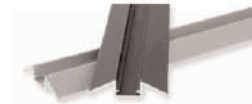
**011369**

Clear PET Self-adhesive backed, grips tightly for straight runs in minimum space. Apply to covers, surfaces or inside liniLED aluminum extrusions with diffusing lenses.



### Mounting Saddle

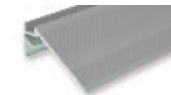
**011375**



### Wall/Floor Extrusion

Silver  
Black

**011593**  
**011595**



### Stair Extrusion, Direct View

Silver  
Black

**011565**  
**011567**



### Stair Extrusion, Indirect View

Silver  
Black

**011836**  
**011837**



### Cove Extrusion

White  
Polycarbonate Lens

**012809**  
**011591**

### End Caps for Cove Extrusion

left  
right

**011571**  
**011573**



### Line Extrusion

1" White painted aluminum  
2" White painted aluminum  
1" Frosted lens 3/16" Acrylic  
1" Clear lens 3/16" Acrylic  
2" Frosted lens 3/16" Acrylic  
2" Clear lens 3/16" Acrylic

**010982**  
**010985**  
**010959**  
**010965**  
**010961**  
**010967**

# liniLED<sup>®</sup> PSP (Power Short Pitch)

FLEXIBLE LINEAR LED MODULE - 237-257 LUMENS FT. - 2.98 W./FT.



JUST 5 EASY STEPS TO SPECIFY

## 4. POWERING AND RUN LENGTH

## 5. CONTROLLING



Power Supply Indoor/Outdoor

Watts  
 20W **011310**  
 30W **011307**  
 60W **011315**  
 100W **011321**  
 150W **011327**  
 240W **011331**

Dimmable Supply

Watts  
 30W **011308**  
 60W **011314**  
 100W **011322**  
 150W **011328**  
 240W **011332**



Plug in Power Supply Indoor

Watts  
 120W **011323**



Power Supply Indoor

Watts  
 320W **011335**  
 500W **011339**



Weatherproof Multi-Power Box

12"x12"x6" with 9, 5/16"  
 liquid tight outputs

Watts  
 120W **011850**  
 240W **011851**  
 480W **011852**



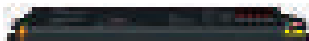
Dimmer with On/Off Push  
 Switch; Dims standard power  
 supplies; Max. 280W @ 24VDC. **011458**



RGB Stand-alone Controller  
 For demo or wall box mounting;  
 Max 120W @ 24VDC  
 4.3/4" x 1.7/16" x 7/8"H **011100**



RGB / DIM Wall Control set **011101**  
 Wall mounting with IR Remote;  
 Max 2 Amp



LIN100A1 100W DMX RGB/Dim **011341**  
 Controller / Power supply unit  
 Max.100W @24VDC; Onboard and  
 remote addressing & programming  
 DMX/Dali/0-10V



LIN180D2 180W DMX RGB/Dim **011344**  
 Controller. Max.180W @24VDC;  
 Onboard and remote addressing  
 & programming. DMX/Dali/0-10V



LIN720D2 720W DMX RGB/Dim **011345**  
 Controller. Max.720W @24VDC;  
 Onboard and remote addressing  
 & programming. DMX/Dali/0-10V



DIMWHEEL/COLOR Wall **011342**  
 Programmable On/Off RGB color  
 wheel for LIN100/180/720  
 10A. 24VDC

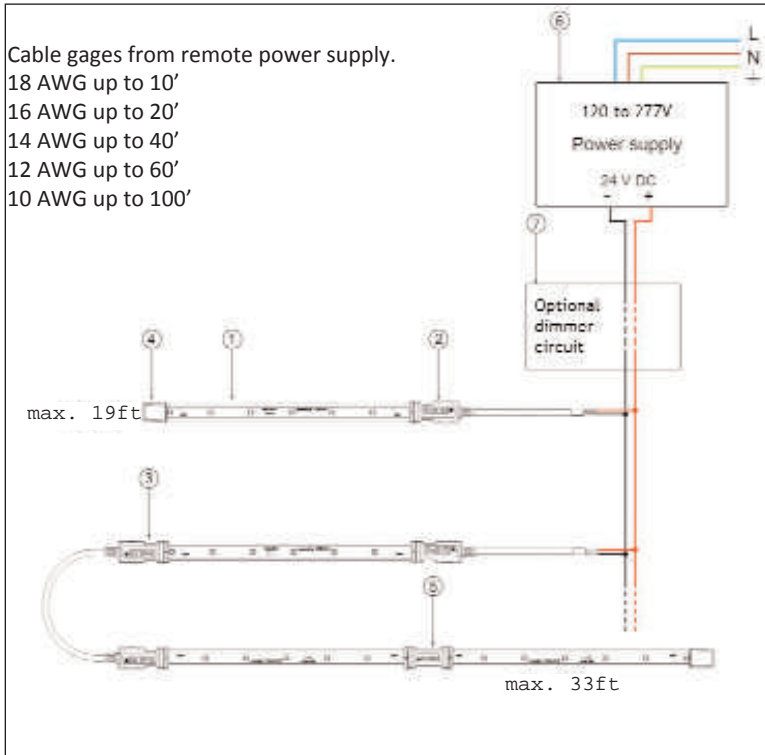


Weatherproof RGB Multistrip  
 Box Controller system,  
 12"x12"x6" with 9, 5/16"  
 liquid tight outputs

Watts  
 120W **011853**  
 240W' **011854**  
 480W **011855**

## POWER SHORT PITCH WHITE SPECIFICATION

### CONNECTION DIAGRAM



### SPECIFYING AND INSTALLATION

**Installing:**  
liniLED PSP is easy to specify and simple to install. It can be cut every 2" and continuous lengths up to 33ft can be run from the power supply.

**Power Supplies / Controls – 24V.DC Constant Voltage:** -  
Check the Power Supplies Guide and select dimmable or non dimming-Power Supplies corresponding to the run lengths. (Third party electronic dimmers connect to the 0-10V leads on dimmable power supplies), or select one of the available Organic Lighting Dimming controls.

**Power Cords with Connector:**  
Select the power Connector cord sets, either 3'3" or 16'3" long to match the number of runs -endcaps supplied (4). Bends can be made with 10" extension leads (3). Splices can be made with Inline connectors (5).

Waterproof connections require the connectors to be protected with a liniLED Connector Cover supplied with a resin glue which protects connections to IP68.

**Mounting:**  
Clear PET adhesive backed mounting channel, which can be cut to length, enables quick installation and adjustment. (Can be screw mounted for rough surfaces), or choose screw on mounting saddles..

Extruded aluminum housings are available for surface or recessed mounting, creating coves, step extrusions for direct view or indirect illumination and under cabinet/wall mounting extrusions can be specified.

### liniLED<sup>®</sup> PSP DIMMING CONTROL ELECTRONIC 0-10V; PWM; OR OUR MAGNETIC AC DIMMABLE POWER SUPPLIES

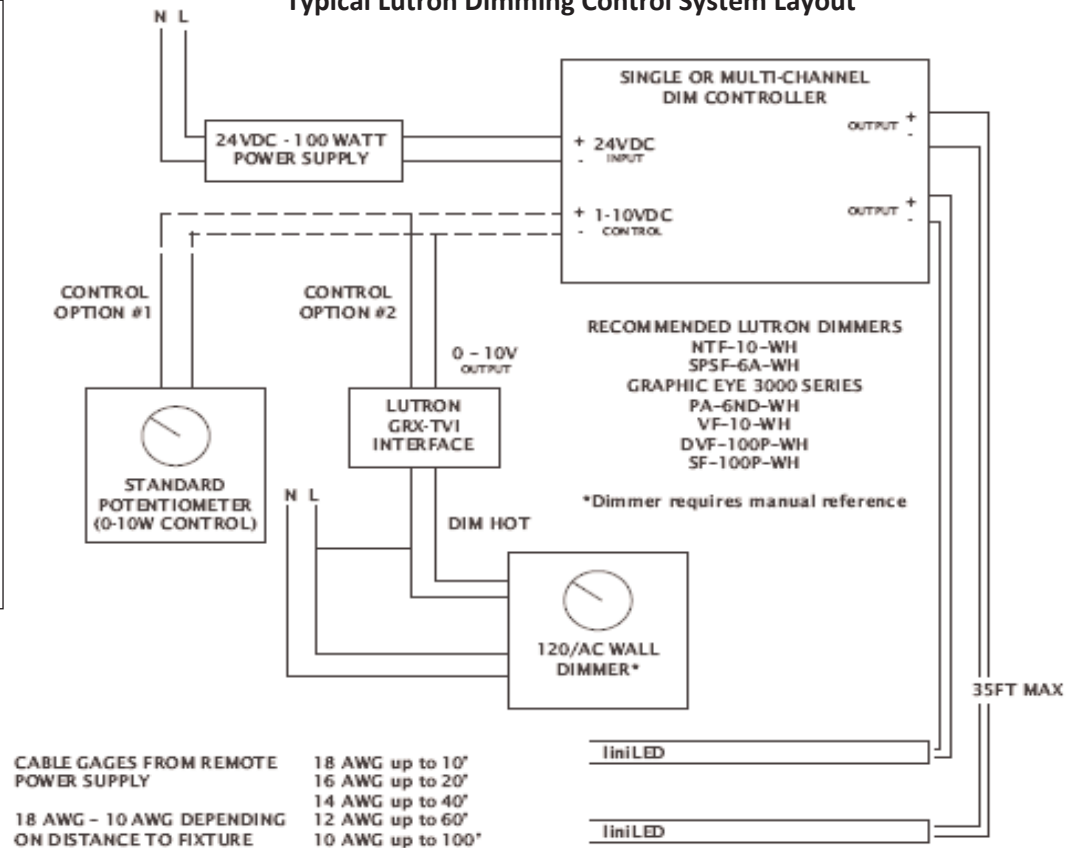
liniLED is dimmable using 1-10v or Pulse Width Modulation (PWM) controls.

- Dim with simple 1-10V dimmers or DMX/RDM dimmer controls.
- Dim only on the DC side.

**2 Wire AC dimming -Electro-magnetic Power supplies can be supplied. (Require Lutron or other approved Electronic low voltage dimmer controls)**

- Dimming on the AC side require special Magnetic power supplies , which must be specified when ordering.

### Typical Lutron Dimming Control System Layout



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POWER SHORT PITCH

TRIMMING AND CONNECTING

