



### PRO Premium Retrofit Kit

The revolutionary PRO Premium Retrofit Kit lets you quickly and easily build your own light bars in the field. Attach 24V PRO Premium 4 XO modules to our special I-Beam design and cut your light bars to fit on the fly! Up to 8 ft. per bar! Simple clips let you lock each double-sided module in place. PRO Premium XO modules feature integrated circuits that maintain constant current, so there is no lumen drop across any string of modules. Spaced at 14.76 in. (375 mm) to let you place each clip up to 1 ft (305 mm) apart, these super high output 6500K modules are rated IP68 for use in damp and wet locations. Special order other CCTs. Modules feature a 9-year warranty.

#### Features:

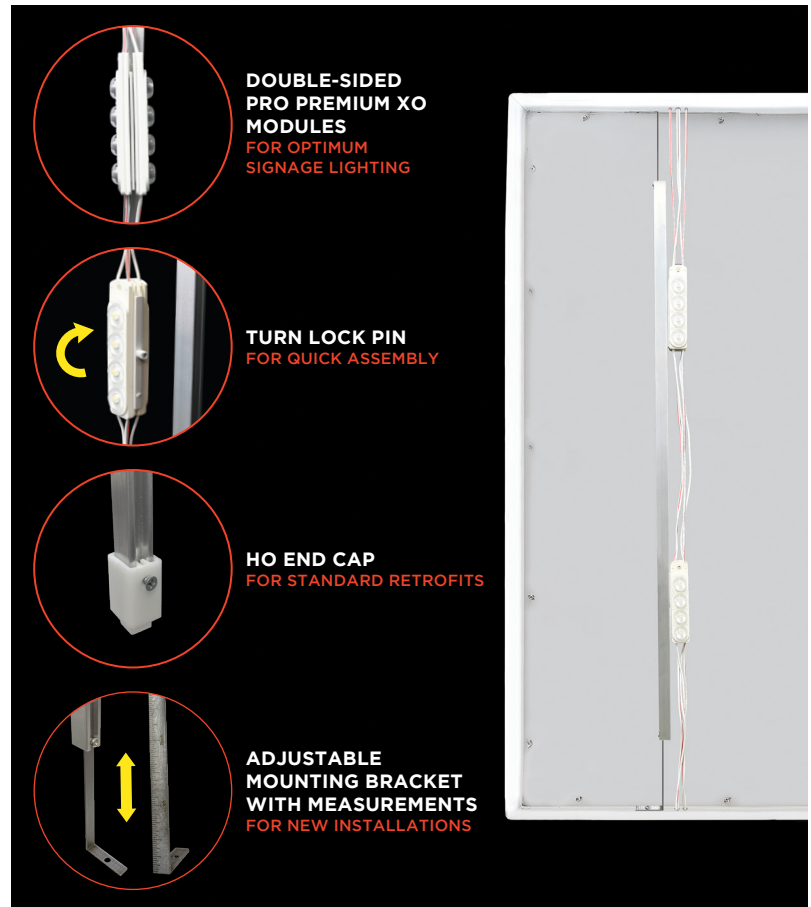
- Build a bar with double-sided PRO Premium XO 24V LED modules
- Easy installation with Adjustable Mounting Brackets
- HO End Caps available for retrofit
- 24V 30W, 60W, 100W or 300W Power Supply
- The “8-ft bar” is actually 93.1 in. (2364.7 mm) so that with two HO End Caps a full bar is 93.8 in., which fits the F96T12 standard size. Use Adjustable Mounting Brackets to reach full length of 8 ft.



### LM-80

### ORDERING GUIDE

Image	Description	Part No.	Ordering Unit	Contains	Suggested Ordering Qty to Make 24 8-foot bars
	6500K Double-sided PRO Premium XO Module	LS-RTRKIT-PRO4-XO-65K-375	Bag	21 module assemblies	8 bags
	Retrofit Bar	LS-TLP-096-BAR	Box	24 8-foot bars	1 box
	Adjustable Mounting Bracket	LS-TLP-MNT	Bag	8 brackets	6 bags
	HO End Cap	LS-TLP-CAP	Bag	8 end caps	6 bags
	Coupler	LS-TLP-COUP	Bag	4 couplers	6 bags
	24V 100W Power Supply	PS24-100W-GN Article No.: 28000513A	Driver	1 driver	8 drivers
<b>Additional Drivers Available</b>					
	24V 30W Power Supply	PS24-30W-GN Article No.: 28000516A	Driver	1 driver	--
	24V 60W Power Supply	PS24-60W-GN Article No.: 28000512A	Driver	1 driver	--
	24V 300W Power Supply	PS24-300W-GN Article No.: 28000514A	Driver	1 driver	--

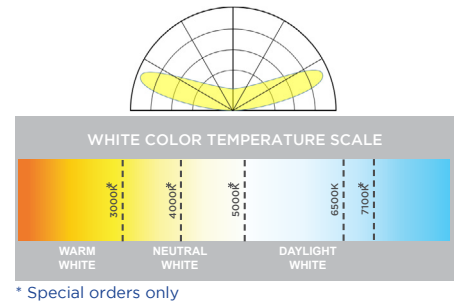




**PRODUCT RATINGS**

Luminous Efficacy	142.8 lm/W @ 6500K	Beam Angle	155°
Wattage per Module	4.2 W Nominal	Module Spacing (in.)	14.76 in.
Input Voltage	24 V DC	Module Spacing (mm)	375 mm
Input Current	0.174 A/ module	# of Modules Per Foot	1
Ingress Protection	IP68	# of Modules Per Meter	3.28
Operating Temperature	-40° - +140° F (-40° - +60° C)	Lumens Per Module	600
L70 Lifetime @ 60° C	70,000 hours	Lumens Per Ft @ 12 in.	600
Warranty	9 Year Limited Warranty	Lumens Per Meter @ 305 mm	1968

**LUMINOUS INTENSITY DISTRIBUTION**



**POWER SUPPLY LOADING**

Double-sided PRO Premium XO Module		
Power Supply	Max. # of Modules Per String	Total # of Modules
30W	5	6
60W	12	13
100W	17	22
300W*3	17	22*3

**REMOTE MOUNTING DISTANCE**

Power Supply	18AWG (ft/m)	16AWG (ft/m)	14AWG (ft/m)	12AWG (ft/m)
30W	120/36.6			
60W	20/6.1	25/7.6	35/10.6	40/12.1
100W	20/6.1	25/7.6	35/10.6	40/12.1
300W	20/6.1	25/7.6	35/10.6	40/12.1

**Notes:**

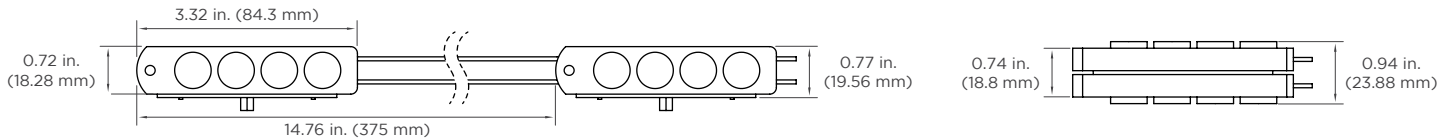
1. Power supply always has 8% buffer
2. These values are good for use with Power Supply Loading Table Single String Max Module values

**Notes:**

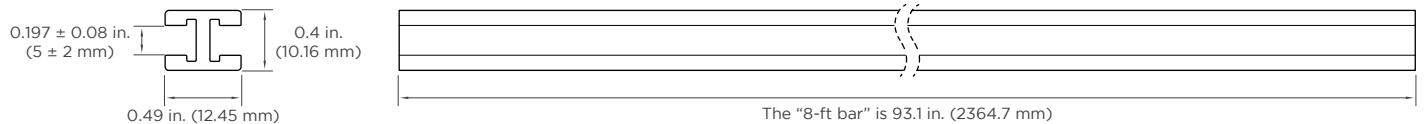
1. Loading calculated at 25°C.
2. For maximum loading to be reached, a center connection to the LEDs is recommended to minimize voltage drop.
3. All values include an 8% buffer from maximum load.
4. Single String Max Modules values can be used with the remote mounting to power supply table.

**DIMENSION DRAWING**

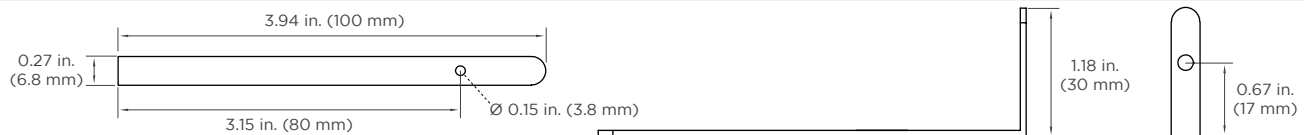
**Double-sided PRO Premium XO Modules**



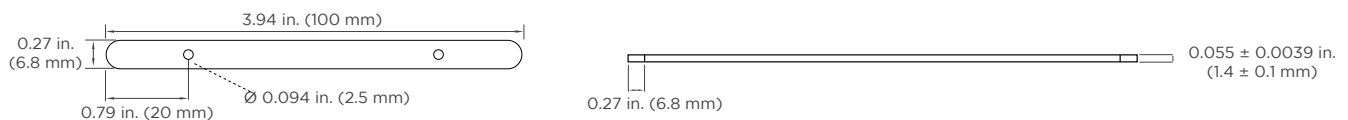
**Retrofit Bar**



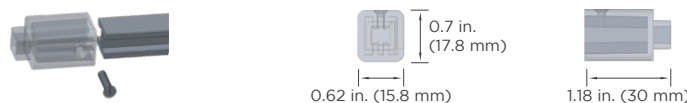
**Adjustable Mounting Bracket**



**Coupler**



**HO End Cap**

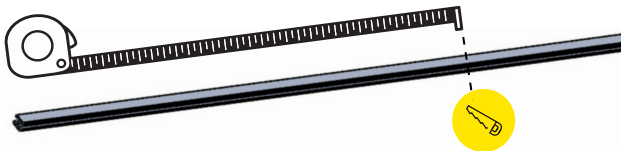




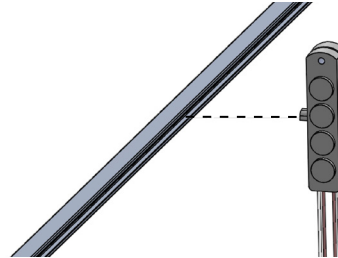
**INSTALLATION**

**NOTE:** You can either install the Retrofit Bar and then add the modules (between steps 1 and 2) OR you can attach the modules and then install the Retrofit Bar (between steps 6 and 7).

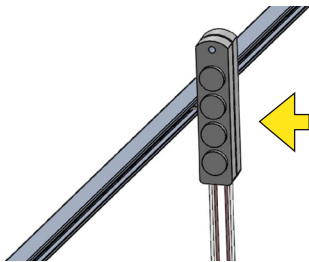
1. Measure Retrofit bar to determine desired length, number of modules and placement. Cut Retrofit bar to fit.\*



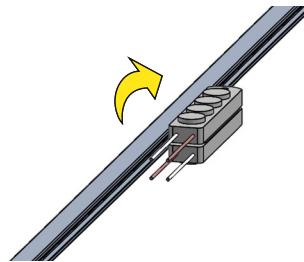
2. Align Turn Lock pin with module perpendicular to I-Beam groove and insert into Retrofit bar.



3. Push Turn Lock pin fully into Retrofit bar.

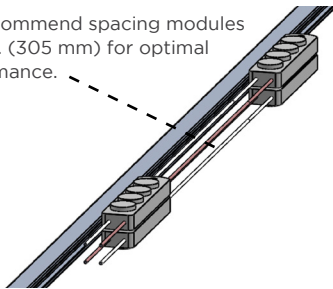


4. Rotate module clockwise until Turn Lock pin locks into place, parallel with I-Beam.

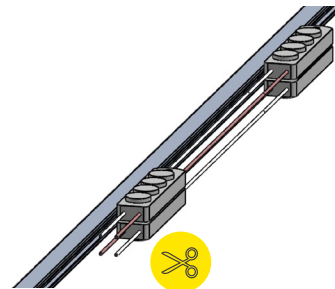


5. Move to the next module in the string and repeat.

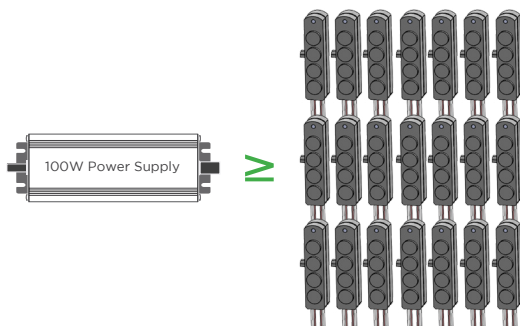
We recommend spacing modules at 12 in. (305 mm) for optimal performance.



6. Cut wires to fit. Cap end wires.



7. Attach to power supply. For best results, be sure to balance load to the power supply. Please reference Power Supply Loading table on page 2.



\* When using Mounting Bracket, cut Retrofit bar to rough size of opening and adjust with Mounting Bracket. When using clear end caps to fit in existing brackets, cut Retrofit bar to these lengths to match 11 standard fluorescent lengths.

Standard fluorescent lengths	Suggested # of modules per bar	Cut Retrofit bars to (then add end caps)
F18T12   15.8 in. / 401 mm	2 modules	15.1 in./383.5 mm
F24T12   21.8 in. / 554 mm	2 modules	21.1 in./535.9 mm
F30T12   27.8 in. / 706 mm	2 modules	27.1 in./688.3 mm
F36T12   33.8 in. / 858.5 mm	3 modules	33.1 in./840.7 mm
F42T12   39.8 in. / 1011 mm	4 modules	39.1 in./993.1 mm
F48T12   45.8 in. / 1163 mm	4 modules	45.1 in./1145.5 mm
F60T12   57.8 in. / 1468 mm	5 modules	57.1 in./1450.3 mm
F64T12   61.8 in. / 1570 mm	5 modules	61.1 in./1551.9 mm
F72T12   69.8 in. / 1773 mm	5 modules	69.1 in./1755.1 mm
F84T12   81.8 in. / 2078 mm	6 modules	81.1 in./2059.9 mm
F96T12   93.8 in. / 2383 mm	7 modules	*93.1 in./2364.7 mm
F108T12   105.8 in. / 2687 mm	8 modules	**105.1 in./2669.5 mm
F117T12   114.8 in. / 2916 mm	9 modules	**114.1 in./2898.1 mm
F120T12   117.8 in. / 2992 mm	9 modules	**117.1 in./2974.3 mm

\* full bar/no cut needed  
\*\* 2 pieces with coupler