FRANCE Moguled

Installation Instructions

Applications

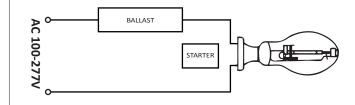
For use in exterior or interior applications.Suitable for Large cabinet sign lighting; High lumen replacement for HID, CFL and incandescent applications; Barn/Shop lighting; Outdoor post top lanterns; High bay lighting; Street lighting; Wall pack lighting.

WARNING!

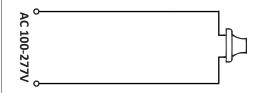
- 1.Read and follow all instructions provided with this product.
- 2.Installation and electrical wiring must be done by a qualified person(s) in accordance with all
- applicable codes and standards, including fire-related construction.
- 3.Risk of electrical shock. Do not use where directly exposed to water.
- 4.Turn power OFF at fuse or breaker and follow proper lockout/tagout procedures before inspection, installation, service, or removal.
- 5.Use included safety cable to fasten the lamp in place in case of accident.
- 6.Do not stare at operating lamp.
- 7. This product is NOT for use with dimmers.

INSTRUCTIONS

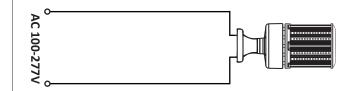
 Disconnect existing lamp holder from any existing ballast, capacitor, and/or ignitor. Remove and properly dispose of the existing ballast, capacitor, and/or ignitor.



 Remove existing lamp and dispose of according to local requirements. Reconnect the lamp holder directly to AC line voltage (100 – 277VAC, 50/60HZ)



 Install the new MoguLED lamp in the lamp holder. Make sure the existing fitting is properly grounded. Use included safety clip strap to secure the MoguLED lamp if necessary.



 The Replacement of a Self-Ballasted CFL lamp requires removal of the old CFL lamp and installing the new LED lamp in its place.

HID/CFL to France MoguLED and Replacement Guide

Model No.	Rated Wattage	Rated Current	PF	HID Equivalent	CFL Equivalent
MGLED-27W	27W	0.27A	>0.9	175-200W	50W
MGLED-36W	36W	0.36A	>0.9	175-200W	65W
MGLED-45W	45W	0.45A	>0.9	175-200W	85W
MGLED-54W	54W	0.54A	>0.9	175-200W	105W
MGLED-75W	75W	0.75A	>0.9	200-250W	150W
MGLED-100W	100W	1.0A	>0.9	250-320W	200W
MGLED-120W	120W	1.2A	>0.9	320-400W	250W

Mounting Orientation

BASE DOW	N	BASE UP		HORIZONTAL			
APPROVE	י כ	APPROVED		NOT APPROVED			
Recommended Minimum Fixture Size							
Model No.	Length	Width	Height	Volume(in³)			
MGLED-27W MGLED-36W MGLED-45W	11.42"	11.42"	11.42"	1489.35			
MGLED-54W	12.40"	12.40"	12.40"	1906.62			
MGLED-75W	15.75"	15.75″	15.75"	3906.98			
MGLED-100W MGLED-120W	17.32"	17.32"	17.32"	5195.70			

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Installation Instructions

DANGER Case and any connected metal may become electrified if unit is not grounded properly	ase and any connected etal may become ectrified if unit is not Case et tout métal relié peut devenir électrifiée si l'unité est pasmise à la terre		Included in this package				
Hazardous Voltage may cause shock, burn, or death	Hazardous peut provoquer un choc, une brûlure ou la mort	 Pre-wired base w/mogul socket Wiring compartment cover Wiring compartment cover 			To be compliant with UL Standard for Electric Signs, unit must be installed per instructions.		
CAUTION Disconnect power prior to installation or service	PRUDENCE Puissance disconnect avant l'installation ou service lampes	(3) Wire nut (1) Screw for compartn (1) Plastic Plug	nent cover		SUASSIFICE		
Replacement lamps must match type indicated on product label	Remplacement doivent être de type de correspondance indiquée sur l'étiquette du produit	(1) 80W or 125W Franc (1) Optional Clip Strap	e MoguLED Lamp				
WARNING - Risk of fire knowledge of sign elect Contact a qualified elec	Kit installation requires do not attempt installation.	Avertissement - Risque d'incendie ou de choc électrique. Kit de conversion à del'installation nécessite des connaissances de signer des systèmes électriques. Si ce n'est pas qualifié, n'essayez pas de l'installation. Contactez un électricien qualifié.					
WARNING - Risk of fire or electric shock. Install this kit only in host signs that have been identified in the installation instructions and where the input rating of the retrofit kit does not exceed the input rating of the sign.			Avertissement - Risque d'incendie ou de choc électrique. Installez ce kit uniquement dans les signes qui ont été identifiés dans les instructions d'installation et où le score d'entrée de le kit de mise à niveau ne dépasse pas le score d'entrée de l'enseigne.				
WARNING - Risk of fire or electric shock. Installation of this LED retrofit kit may involve drilling or punching of holes into the structure of the sign. Check for enclosed wiring and components to avoid damage to wiring and electrical parts.			Avertissement - Risque d'incendie ou de choc électrique. L'installation de ce kit de conversion à DEL peut impliquer le perçage ou Poinçonnage de trous dans la structure de l'enseigne. Pour vérifier le câblage et les composants ci-joint pour éviter d'endommager le câblage et les pièces électriques.				
STEP 1 - Which Mo	del, How Many and Sp	pacing of LED Sign Bi	right Units in a Re	ectangular Sig	gn		
Which model? Sig	ns 30 inches up to 36 inches c	leep, use Model FR-LEDSB1-	80W Signs 36	inches or more de	eep, use Model FR-LEDSB1-125W		
How Many & Spacing: The spacing between LIGHT CENTERS of the lamps is calculated. Light center dimensons relative to the unit base are shown in STEP 3 . Please refer to the layout diagram at the bottom of this page. Number of units required: For the FR-LEDSB1-80W No. of columns= (width of sign face)/3 - if this no. is odd (e.g. 3, No. of columns, = (width of sign face)/4 For the FR-LEDSB1-125W Total units required = (no. of rows) x (no. of columns)							
5, 7, etc) and si No. of rows = (gn has a center support pole, a height of sign face)/3	add one column No.	of columns = (width of of rows = (height of sig	n face)/4			
If the result of either calculation is less than 1/2 unit round down (e.g. a result of 3.4 means to use 3 columns or rows). Likewise, if calculation results in 1/2 unit or more, round up (e.g. a result of 3.7 means to use 4 columns or rows). After having determined the number of rows and columns, calculate spacing between units:							
Column spacing = (width of sign face)/no. of columns Column left and right spacing= 1/2 column spacing Row spacing=(height of sign face)/no. of rows Row right and left spacing = 1/2 row spacing							
EXAMPLE : A sign 30 i	nches deep with a face measu	uring 12 feet wide 6 feet tall, d	epth requires FR-LEDS	B1-80W units (this	s example at page bottom) and:		
No. of columns = $12/3 = 4$ No. of rows = $6/3 = 2$ Total units required = $4 \times 2 = 8$ Column spacing = $12/4 = 3$ ftColumn left and right spacing = $3/2 = 1.5$ ftTotal units required = $4 \times 2 = 8$ Row spacing = $6/2 = 3$ ftColumn top and bottom spacing = $3/2 = 1.5$ ftTotal units required = $4 \times 2 = 8$				its required = $4 \times 2 = 8$			
EXAMPLE 2: A sign with a center support pole, 42 inces deep with a face measuring 19 feet wide x 9 1/2 feet tall, depth requires FR-LEDSB1-125W units and:							
No. of colums = $19/4 = 4.75$, round up to 5 -odd, so add 1 Column spacing = $19/6 = 3.17$ ft (38 in) Row spacing = $9.5/2 = 4.75$ ft (57 in) No. of rows = $9.5/4 = 2.375$ round down to 2 Column left and right spacing = $3.17/2 = 1.583$ ft (19 in) Row top and bottom spacing = $4.75/2 = 2.375$ ft (28.5 in)							
For double-faced signs, mount the units at the center point between the two faces. For single-faced signs, mount the units at least 15 inches from the face for the FR-LEDSB1-80W or 18 inches for the FR-LEDSB1-125W.							
Unsure of the calculations for your particular installation or have a non-retangular or multi-post sign? Please call Technical Support at (615) 418-9710 for assistance.							
*Actual applications may vary. Optimal layout is dependent on sign construction and graphics. All recommendations are for reference only.							
	▲	Width of	sign face	→			
		1	1	-	<u> </u>		
			Center post		Row top spacing		
	le	- <u></u>	í		▲		
	gn fa						
	ht of sig	Column 2		<u>Column4</u>	s zb		
	Height of sign face			3	Row spacing		
		<u>Row</u> 2	, ' ∔m	#	<u>↓</u>		
					Row bottom spacing		

Column spacing

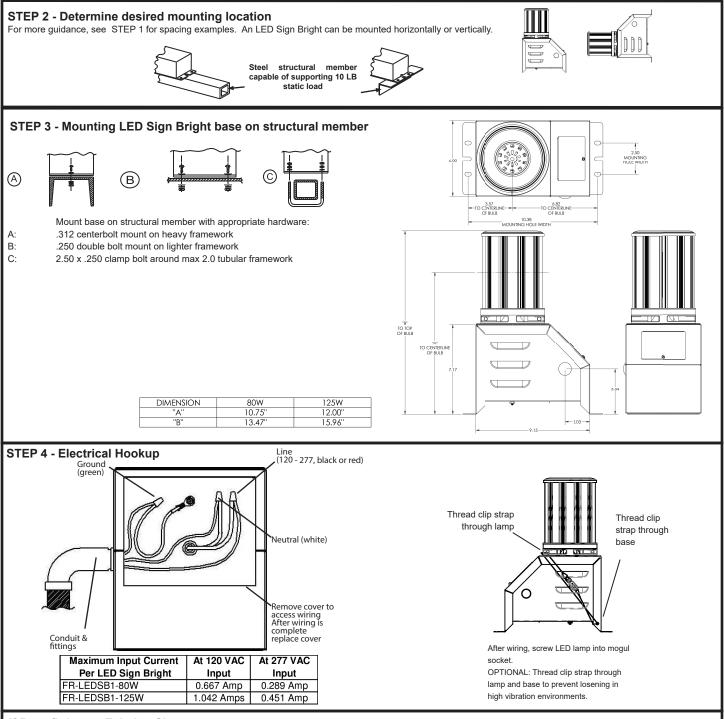
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Column right spacing



If Retrofitting an Existing Sign

France LED Sign Bright replaces all ballasts, lampholders, lamps and HID Sign Bright units.

1. Disconnect power from sign.

- 2. Remove or disconnect all existing lampholders, ballasts, capacitors, and HID ignitors. In a wet or outdoor sign, repair and seal any unused openings in the electrical enclosure during this process. Openings greater than 12.7-mm (1/2-in) diameter require a metal patch secured by screws or rivets and caulked with non-hardening caulk. Smaller openings may be sealed with non-hardening caulk.
- 3. If the existing installation included internal auxiliary electrical enclosures (for ballasts, etc.) employing switches to control power to devices within the enclosure, then a sign disconnect switch may have to be installed.
- 4. Select the appropriate MODEL and NUMBER of LED Sign Brights based on the STEP 1 guidlines above.
- 5. Mount and wire LED Sign Brights in the manner commencing in the STEP 2.
- 6. A permanent label that is intended to remain in the applied position for the lifetime of the sign under conditions of normal use shall be affixed to the sign where readily visible by the user during normal maintenance, including relamping. The label shall be marked with the following statement:

"This sign has been modified to operate LED lamps. Do not attempt to install or operate * lamps in this sign" shall be marked on the retrofitted sign" The " * " shall be replaced by the original illumination type such as "fluorescent," "HID," etc. This marking shall be provided on a separate permanent label that is intended to remain in the applied position for the lifetime of the sign under conditions of normal use.) The marking shall have a minimum letter height of 2.4 mm (3/32 in) and shall be in Univers Bold, Arial Bold, Helvetica Bold, or Zurich BT Bold or equivalent font. 19256 02/28/2017. p2