Construction Specialties

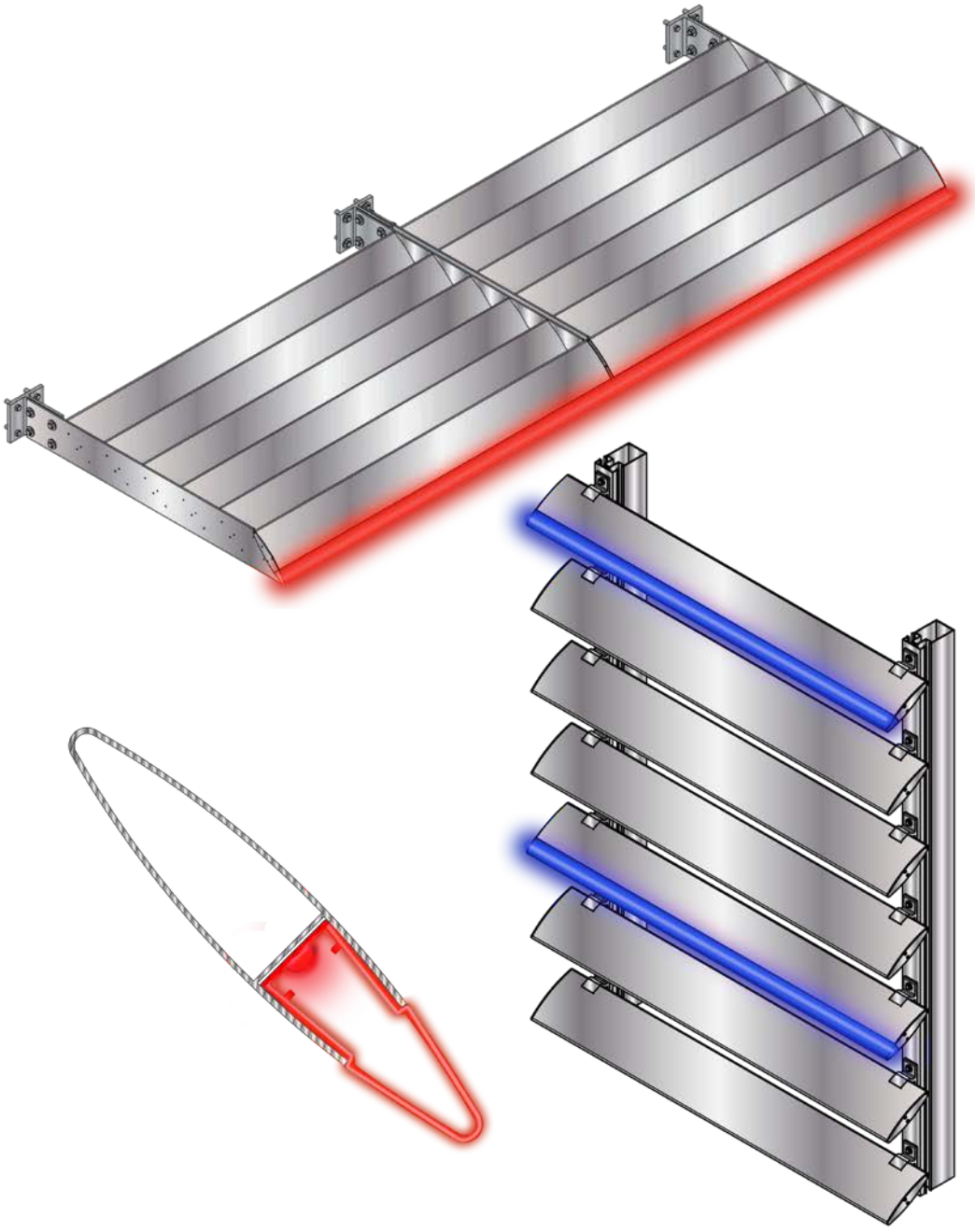
CS Airfoil Lux

SOLAR PROTECTION & NIGHT ILLUMINATION

Technical Manual

The John C. Dunham STEM Partnership School
Aurora, IL
Architect: Cordogan Clark & Associates
Photography: James Steinkamp

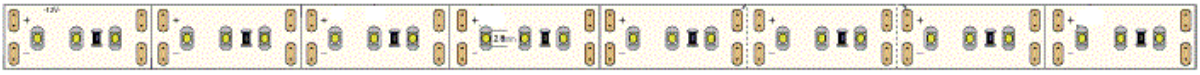
Construction Specialties
49 Meeker Ave. Cranford, NJ 07016
Phone (908) 272-5200
http://www.c-sgroup.com



DESIGN PATENT N°765334-0001

Technical:

LEDs:



The LEDs are available in single colors of red, amber, blue, green, and white as well as RGB for millions of color combinations. Wattage ranges from 4.6W - 5.4W per foot depending on color.

Transformers (not supplied by CS)**:**

125W 24V TRANSFORMER
400W 24V TRANSFORMER

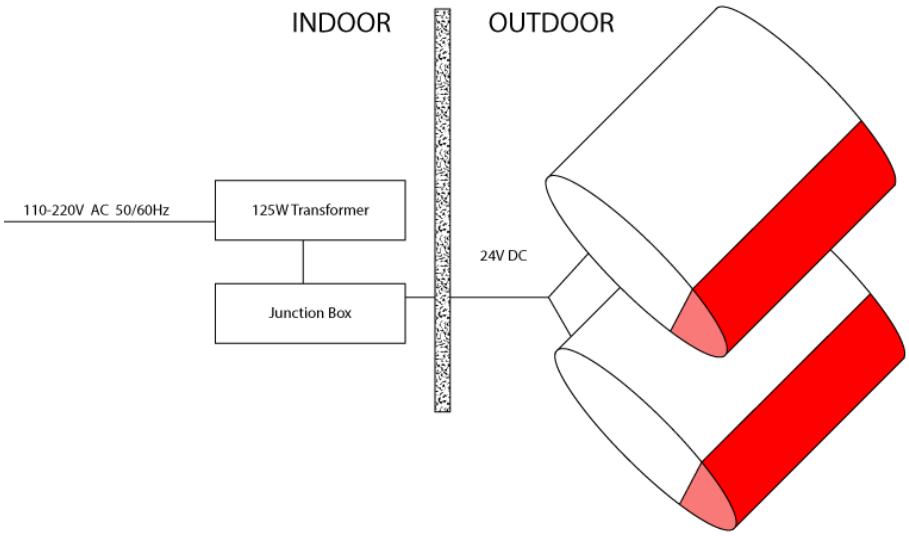
Size of Cable in AWG (American Wire Gage):

- DC feeding of LEDs: 2 x 18g AWG

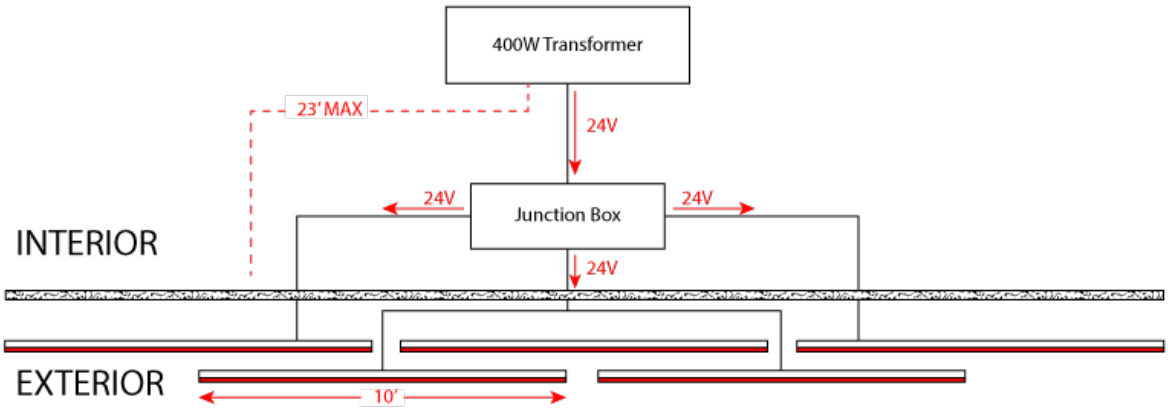
Transformers to be installed inside the building:

		Transformer Power	
LED Colors	**DC Voltage**	**Length < 20ft**	**20ft < Length <65ft**
Red	24 V	125 W	400 W
Amber	24 V	125 W	400 W
Blue	24 V	125 W	400 W
Green	24 V	125 W	400 W
White	24 V	125 W	400 W
RGB	24 V	125 W	400 W

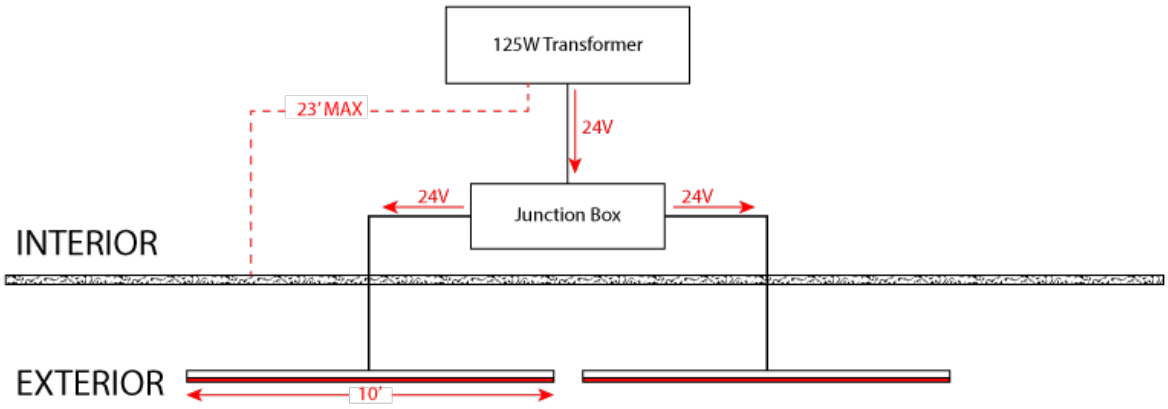
Example: A 125W transformer can supply two 9 foot blades.
(FOR REFERENCE ONLY. CONSULT WITH BUILDING ELECTRICIAN FOR EXACT WIRING DETAILS.)



Mounting example with a 400W transformer:
(FOR REFERENCE ONLY. CONSULT WITH BUILDING ELECTRICIAN FOR EXACT WIRING DETAILS.)



Mounting example with a 25W transformer:
(FOR REFERENCE ONLY. CONSULT WITH BUILDING ELECTRICIAN FOR EXACT WIRING DETAILS.)



The blades are made of powder coated double side extruded aluminium profile. LED color choices are available as previously listed. Blades fixed by alligator brackets.

Supplying and installation of ....ft. of Airfoil Lux illuminated, solar protection blade system.

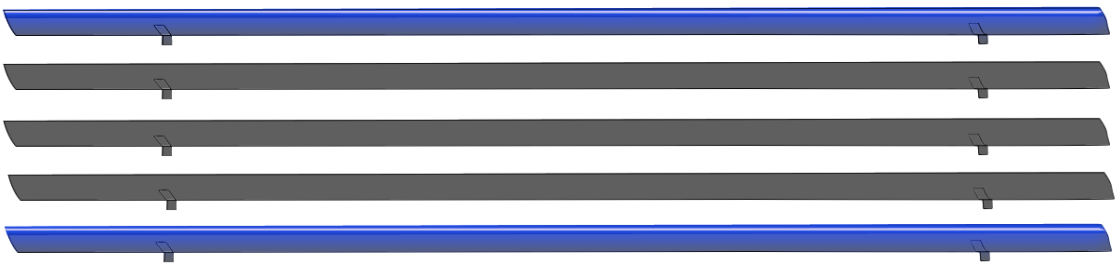
Supplied by:

Construction Specialties
49 Meeker Ave
Cranford, NJ, 07016

0 Degrees

45 Degrees

Bracket angles available at 0°, 30° or 45°.



LED Strip Replacement:

In the case of failure, the end caps have been designed to be removable so the LED strip can be replaced. The power going through the system should first be turned off before any work is done. Once the cap is removed, the LED strip can be unplugged and slid out of the Airfoil blade. The new LED strip can then be placed into the blade and plugged in. The end cap can then be screwed back into place and the system powered on.

Boeing Delivery Center, Everett, WA
Architect: DLR Group
Photography: Gail Hanusa

Cablevision Call Center and Parking Garage, Newark, NJ
Architect: Rotwein & Blake
Photography : David Patino