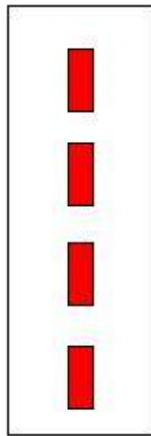


## The most efficient calculation for LED module installation

Single LED Module illumines range is: length 3.5in X width 3.5in; the best depth 3.5-4.5in.

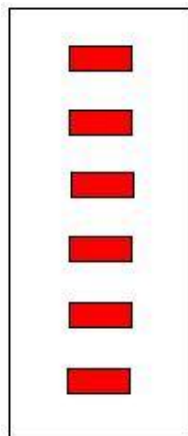
1. How to calculate the quantity of LED Modules to use in a Single Face Channel Letter?

- a. Front face viewing display. Width $\leq$ 3.5in, use 4 pieces per foot, see picture 1, set straight dispose.



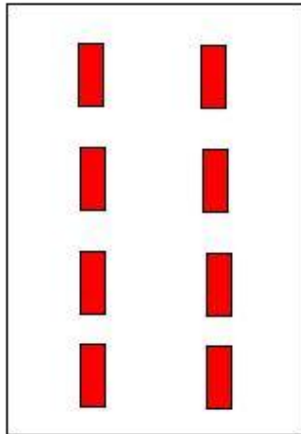
Picture 1

- b. Front face viewing display. 3.5in $<$ width $\leq$ 4.5in, use 5-6 pieces per foot, see picture 2, set cross dispose.



Picture 2

- c. Front face viewing display. 4.5in $<$ width $\leq$ 6.5in, use 2 columns, see picture 3, set straight dispose.
-



Picture 3

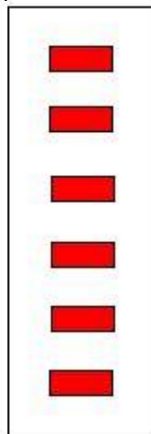
- d. Any other dimension is calculated by this formula.
- e. When creating a non channel letter, calculate by this formula:  
Area=Length X Width / 11.

2. How to calculate the quantity of LED Modules to use in a Double Faces Channel Letter?

There are 2 creations for Double Faces Channel Letter.

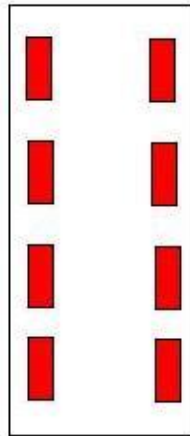
A. Use single side LED Modules and clear color of Acryl panel on behind.

- a. Width<=3.5in, use 6 pieces per foot, see picture 4, set cross dispose.



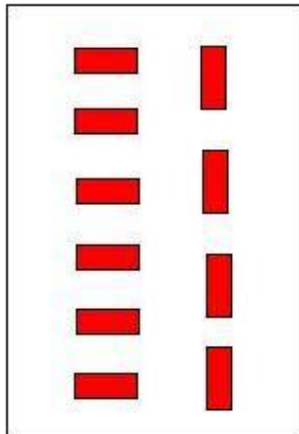
Picture 4

- b. 3.5in<width<=4.5in, use 2 columns, see picture 5, set straight dispose. Each column uses 4 pieces per foot.
-



Picture 5

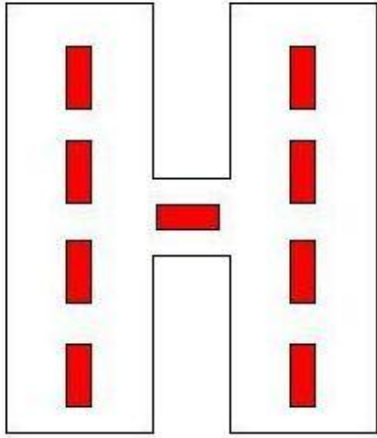
- c. 4.5in<width<=6.5in, use 2 columns, see picture 6, one column set at cross dispose, another set at straight dispose.



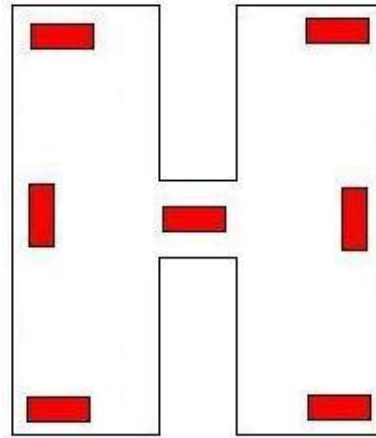
Picture 6

- d. Any other dimension is calculated by this formula.
- e. When creating a non channel letter, calculate by this formula:  
Area=Length X Width / 7.5.

- a. When it's front light viewing and width  $\leq 3.5$ in, use 4 pieces per foot, see picture 7A, set straight dispose. Back light viewing need to set modules closer to the side of Channel Letter, use 3 pieces per foot, see picture 7B.

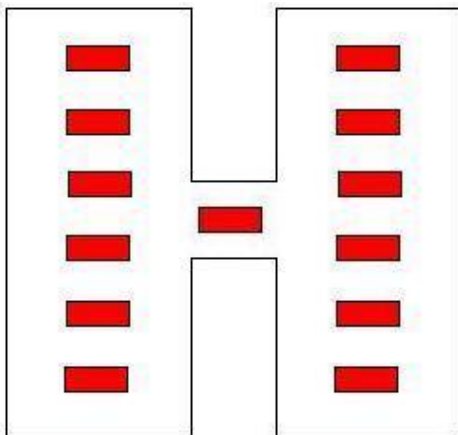


Picture 7A

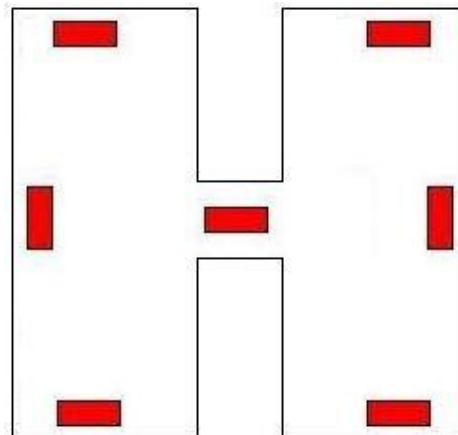


Picture 7B

- b. When it's front light viewing and  $3.5 < \text{width} \leq 4.5$ in, use 5-6 pieces per foot, see picture 8A, set cross dispose. Back light viewing need to set modules closer to the side of Channel Letter, use 3 pieces per foot, see picture 8B.

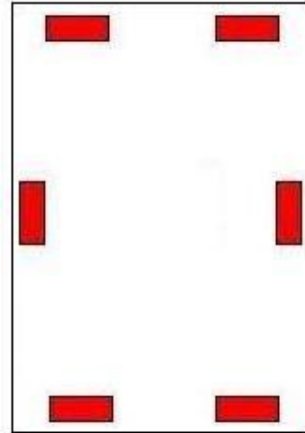
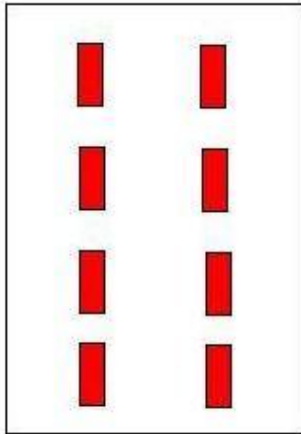
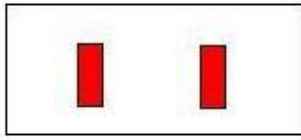


Picture 8A



Picture 8B

- c. When it's front light viewing and  $4.5 < \text{width} \leq 6.5$ in, use 2 columns, see picture 9A, set straight dispose. Back light viewing need to set modules closer to the side of Channel Letter, use 3 pieces per foot, see picture 9B.
-



Picture 9A

Picture 9B

- d. Any other dimension is calculated by this formula.
  - e. When creating a non channel letter, calculate by this formula:  
Area=Length X Width / 11. Back light viewing need to set modules closer to the side. And use 3 pieces per foot are fine.
-