

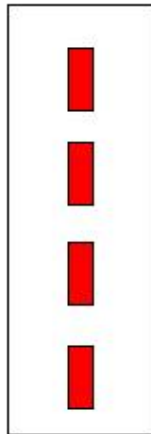


The most efficient calculation for LED module installation

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

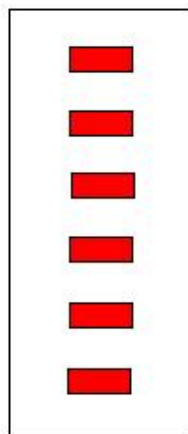
1. How to calculate the quantity of LED Modules to use in a Single Face Channel Letter?

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



Picture 1

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

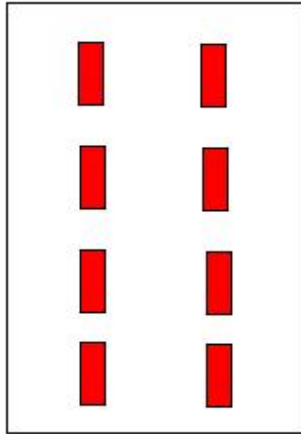


Picture 2

- c. Front face viewing display. $4.5\text{in} < \text{width} \leq 6.5\text{in}$, use 2 columns, see picture 3, set straight dispose.
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The most efficient calculation for LED module installation



Picture 3

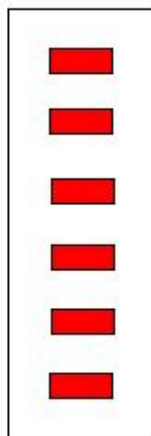
- d. Any other dimension is calculated by this formula.
- e. When creating a non channel letter, calculate by this formula:
$$\text{Area} = \text{Length} \times \text{Width} / 11.$$

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 ≤ 3.5 in, use 6 pieces per foot, see picture 4, set cross dispose.

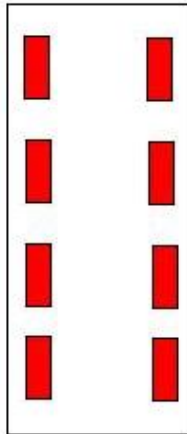


Picture 4

- b. $3.5 \text{in} < \text{width} \leq 4.5 \text{in}$, use 2 columns, see picture 5, set straight dispose. Each column uses 4 pieces per foot.
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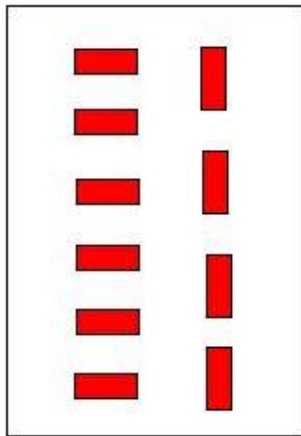


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Picture 5

- c. $4.5\text{in} < \text{width} \leq 6.5\text{in}$, use 2 columns, see picture 6, one column set at cross dispose, another set at straight dispose.



Picture 6

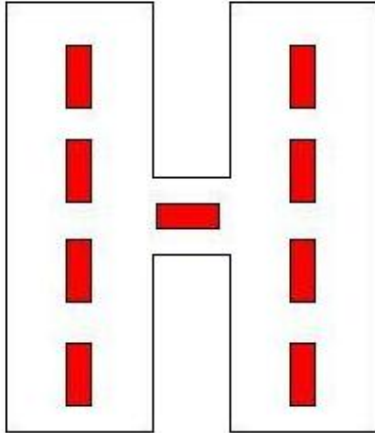
- d. Any other dimension is calculated by this formula.
- e. When creating a non channel letter, calculate by this formula:
 $\text{Area} = \text{Length} \times \text{Width} / 7.5$.

B. Use LED Modules on both sides. Normally use White LED Modules on back side.

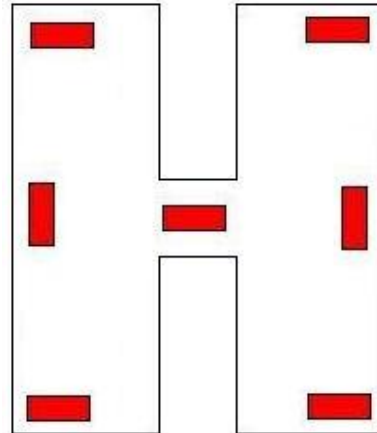


The most efficient calculation for LED module installation

- a. When it's front light viewing and $\text{width} \leq 3.5\text{in}$, 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.

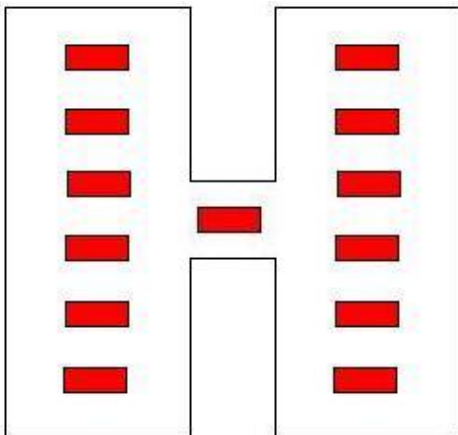


Picture 7A

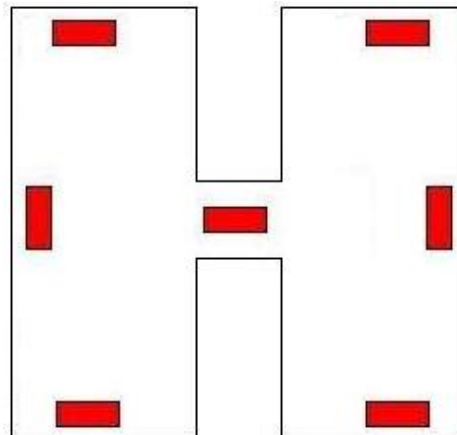


Picture 7B

- b. When it's front light viewing and $3.5\text{in} < \text{width} \leq 4.5\text{in}$, 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

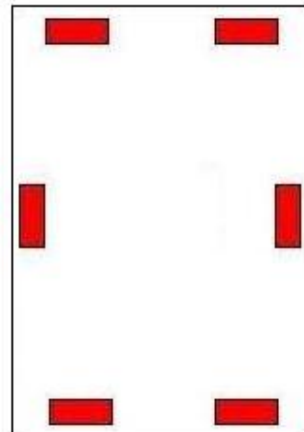
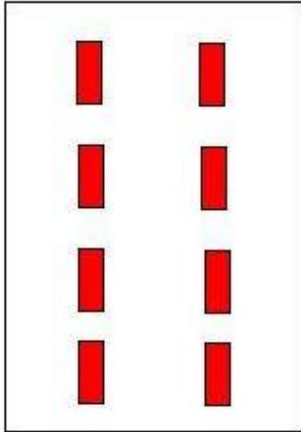
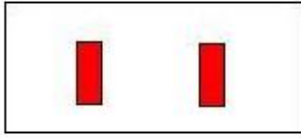


Picture 8B

- c. When it's front light viewing and $4.5\text{in} < \text{width} \leq 6.5\text{in}$, 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.
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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.
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