

SIZING TRANSFORMERS

Our linear low voltage fixtures come complete with 10 feet of 10 gauge feed wire for connection to the transformer. To minimize voltage drop we target the connected load of each of these circuits at 200 watts and will not exceed 240 watts. The length and configuration of the fixture along with the wattage and on center spacing of the lamps determines the quantity of circuits in the fixture.

SLI can provide remote transformers in a variety of sizes. Single circuit units are available in sizes of 100, 150 and 300 watts. One transformer must be used for every feed on these smaller transformers. Our larger 600 and 750 watt units have multiple circuits with circuit breakers for each secondary feed. The 600 watt unit will power two feeds and the 750 watt unit will power three feeds.

The chart below shows the length of fixture per feed for several popular lamp sizes and spacings. Please refer to the fixture technical sheets to determine what lamp wattage and spacing is appropriate for the fixture you are specifying.

Lamp Watts	Lamps per Circuit	Target Circuit size	Maximum fixture length per feed for a given lamp spacing						
			2" o.c.	3" o.c.	4" o.c.	6" o.c.	8" o.c.	9" o.c.	12" o.c.
5	40	200	6' - 8"	10' - 0"	13' - 4"	20' - 0"	26' - 8"	30' - 0"	40' - 0"
10	20	200	3' - 4"	5' - 0"	6' - 8"	10" - 0"	13' - 4"	15' - 0"	20" - 0"
20	10	200	1' - 8"	2' - 6"	3' - 4"	5' - 0"	6' - 8"	7' - 6"	10' - 0"
35	5	210	1' - 0"	1' - 6"	2' - 0"	3' - 0"	4' - 0"	4' - 6"	6' - 0"
37	5	222	1' - 0"	1' - 6"	2' - 0"	3' - 0"	4' - 0"	4' - 6"	6' - 0"
45	4	225	0' - 10"	1' - 3"	1' - 8"	2' - 6"	3' - 4"	3' - 9"	5' - 0"
50	4	200	0' - 8"	1' - 0"	1' - 4"	2' - 0"	2' - 8"	3' - 0"	4' - 0"

If the lamp and spacing can not be found on the chart above the following rule of thumb may be used for budgeting transformers. You must round up your result to the next whole number:

$$\frac{(\text{Fixture Length in Inches} \div \text{On Center Spacing of Lamps}) \times \text{Lamp Wattage}}{\text{Target Circuit Size}} = \text{Number of Feeds}$$

In practice a fixture the layout of the fixture may require additional transformers. SLI will finalize the quantity of transformers as part of the shop drawing process after an order has been placed.



**SPECIALTY LIGHTING
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