## **FILLO** T5 Fluorescent vs. T5 LED Case Study

Retailer X approached Tresco Lighting to outfit their stores with fluorescent, or in the alternative LED.



### **T5 Fluorescent**

<b>Description</b> 3' T5 Fluorescent 2' T5 Fluorescent	Wattage 21W 13W	<b>Qty Cost/EA</b> 15 /\$19.73 8 /\$18.50	<b>Extended</b> \$295.95 \$148.00	
		TOTAL MATERIAL COST: \$443.95		
<b>Maintenance Cost</b> ( 46 Bulbs X \$4.00	30,000 hr peri	d) Replacement Bulb Cost: \$184.00		
<b>Labor to Replace B</b> 3 hours X \$20/hour		Labor for Replacements: \$60.00		
<b>Disposal Fee (bulbs)</b> \$0.60 per bulb X 46 bulbs		Total Bulb Disposal Fee: \$27.60		
Energy Cost to Operate (30,000hr period)				
<b>Description</b> 3' T5 Fluorescent 2' T5 Fluorescent	Watts/EA 21 13	<b>Qty</b> 15 8	<b>Total Watts</b> 315 104	
		To	otal Watts <b>419</b>	
		419W X 30,000hrs/1000 X .10/Kwh Energy Cost to Operate: <b>\$1,257.00</b>		

#### TOTAL LIFETIME COST: \$1,972.55

Note: Most T5 Fluorescent Ballasts are 20K rated.



### **T5 LED**

<b>Description</b> 3' T5 LED, Daylight 2' T5 LED, Cool	<b>Wattage</b> 14W 7W	<b>Qty Cost/EA</b> 15 /\$41.25 8 /\$24.35	<b>Extended</b> \$618.75 \$194.80	
		TOTAL MATERIAL COST: \$813.55		
<b>Maintenance Cost</b> ( 0 Bulbs Required	30,000 hr peric	d] Replacement Bulb Cost: \$0.00		
Labor to Replace Bulbs O labor required		Labor for Replacements: \$0.00		
<b>Disposal Fee (bulbs)</b> O bulbs to dispose of		Total Bulb Disposal Fee: \$0.00		
Energy Cost to Operate (30,000hr period)				
<b>Description</b> 3' T5 LED, Daylight 2' T5 LED, Cool	<b>Watts/EA</b> 14 7	<b>Qty</b> 15 8	Total Watts 210 56	
		Т	otal Watts <b>266</b>	
		266W X 30,000hrs/1000 X .10/Kwh Energy Cost to Operate: <b>\$798.00</b>		

#### TOTAL LIFETIME COST: \$1,611.55

400 stores x \$361 savings would equal \$144,400 (20.14%) savings for Retailer X over a 3 year period for choosing LED over fluorescent.

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