**Anticipated Savings for ${TLOC}:**

For occupancy sensors, the percent operating hour reduction is dependent upon the frequency that an area is occupied. This value can be measured using motion detecting sensors or estimated by using electric utility studies that estimate the fraction of lighting hours wasted. The area is occupied approximately ${FR}% for the considered operating hours. Some lights will be left on for fire safety etc. The estimated electricity savings, ES, is calculated using the following relations:

ES${i} = N${i} × CFW${i} × OH${i} × (100% - FR${i}) / C${i}

where

N${i} = Number of LED bulbs in ${LOC}: ${LED}

CFW${i} = Power rating of each LED bulb in area: ${CFW} W

OH${i} = Operating hours: ${OH} hrs/yr (${HR} hours per day, ${DY} days per week, ${WK} weeks per year)

FR${i} = Fraction of operating hours during which area is occupied: ${FR}%

C${i} = Conversion constant: 1,000 W/kW

ES${i} = ${LED} × ${CFW} W × ${OH} hrs/yr × ${FR}% / (1000 W/kW)

= ${ESi} kWh/yr