

**Weight comparison**

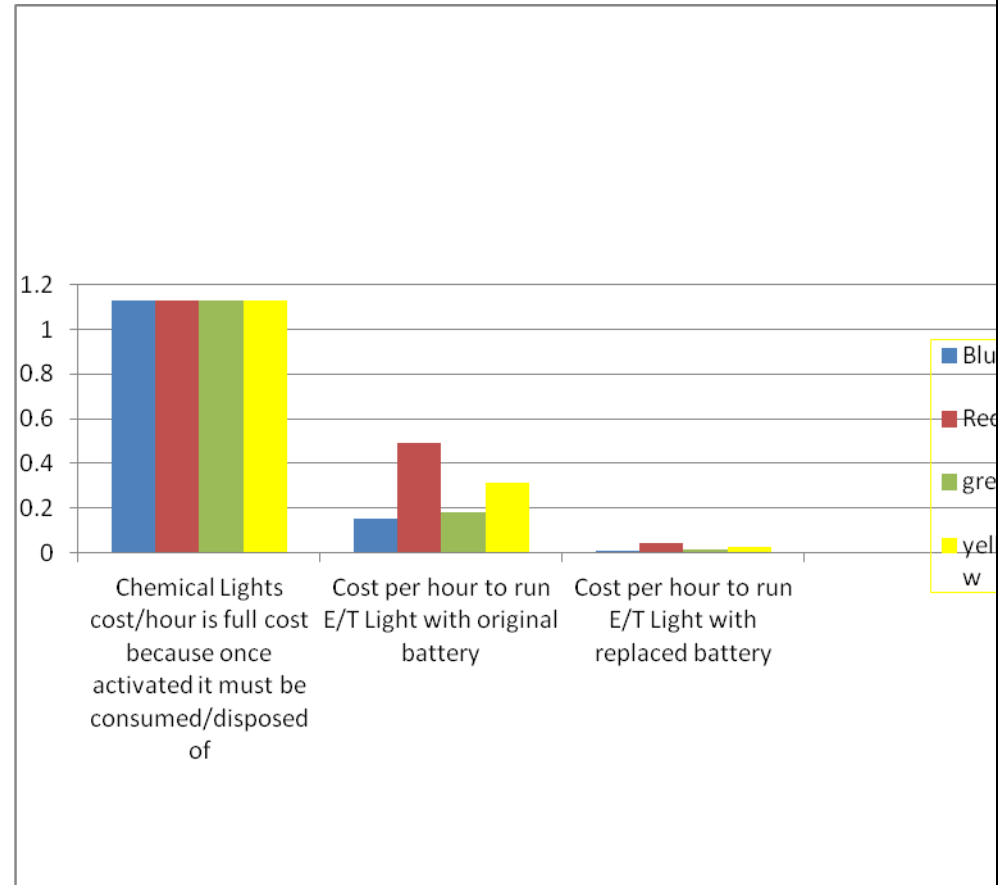


Chemical Lights weigh ~21 grams each times four, for the four color capability = ~84 grams for four color capability with chemical lights

LGP's weigh (without lanyard) 37.5 grams each for four color capability

37.5 grams LGP/ ~84 grams chemical lights = 44%. This means LGP's reduce weight for four color capability by 56%. Now, consider the number of chemical lights that must be carried before one 11.4 gram battery is replaced.

**Cost Comparison**



Dollars

Cost per hour analysis, E/T Lights vs. Chemical Lights:

	Blue	Red	Green	Yellow
<b>Chemical lights</b>	~ \$1.13	~ \$1.13	~ \$1.13	~ \$1.13
<b>LGP –original battery cost/hr</b>	\$0.15	\$0.49	\$0.18	\$0.312
<b>LGP w/replaced bat cost/hr</b>	\$0.01	\$0.04	\$0.015	\$0.026

### Equipment Volume Reduction

Chemical lights – Occupy ~3.375” each times 4 color sticks to compare with one 4 colors in one LGP = 13.5” for one set of 4 different colored chemical lights

LGP’s – Occupy ~ 3.515”

Analysis – 13.5” of area for 4 color capability of one set of chemical lights vs. 3.5” for one LGP

13.5”-3.5” = 10” volume reduction in equipment savings on initial use.

3.5”/13.5” = 36%, this means we reduce volume for this type of equipment by 74% for the same capability

### Resupply less often and less weight & volume



When it comes time to resupply do you prefer to supply one small battery for up to 9.5 day’s worth of general purpose illumination having 4 color capabilities that can be turned off or up to 38+ chemical lights for one color capability utilized once for repetitive common tasks such as personnel marking, equipment marking, buzz saws, perimeter marking, cleared room indicating, vehicle marking, low level illumination for reading or going to the latrine, etc...

The need to resupply for these capabilities will be reduced and that space can be used for more important items than chemical lights being utilized on repetitive common tasks performed by soldiers.