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Case Study

Community Center Retro Fit - Honolulu

Newtown Community Recreation Center needed to replace aging their HID Tennis, Volley and Basketball lighting system, and asked Tom Brennan of ECO-LITE, Honolulu to bring in the best solution, that would save energy, and improve lighting quality.

Tom immediately contacted Magnaray® International to see how this could be accomplished. The timing was right, since Magnaray® had just developed their new “array” lighting design, which uses combinations of their 8’ luminaires that can use a variety of lamp types.

Selected for these applications, was the #W4PL5096, 212 watt luminaire (each using 4-PL50/41 lamps) with either 2 or 4 luminaires per array, depending on location (see page 2). The 2 light arrays were used on the Volleyball and Basketball courts, while the 4 light arrays were used on the double tennis courts.

A total of 42-400 watt HID’s were removed, and replaced with 40-212 watt Magnaray® W4PL5096 units for a savings of 55+% in energy use. All systems are now “instant-on” (can be turned off when not needed), so additional energy savings can be accomplished over the old HID system. **For this facility, 83% total savings.**

Existing poles were used, but wind loading pole data needs to be verified for each job location. New poles may sometimes be needed. Checking with a local engineer, and the pole manufacturer is all that is necessary. (Extra poles not removed.)

Some other positive features of the twin T5 fluorescent system are long lamp life (20,000 hours when used with program start ballasts), and higher maintained light output (90% light at 90% life).

Four light stacked arrays



Double Tennis Courts

Back to back, 2 light “arrays”



Volley and Basketball Courts

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"Quality is never an accident; it is always the result of high intention, sincere effort, intelligent direction

and skillful execution; it represents the wise choice of many."

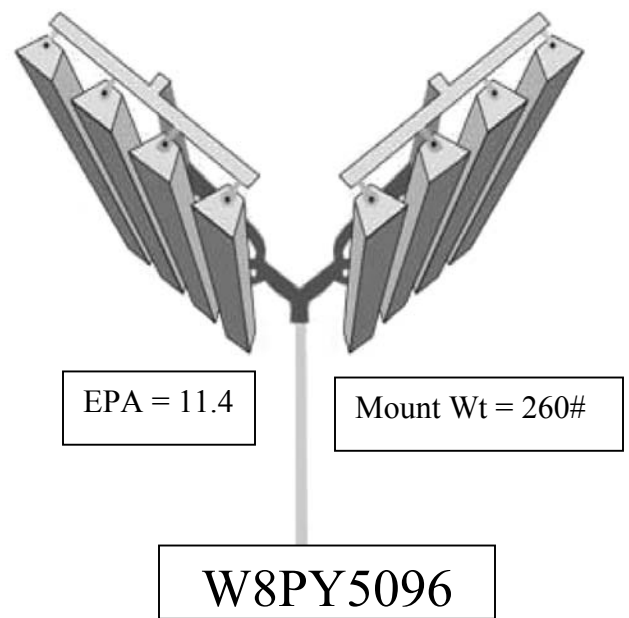
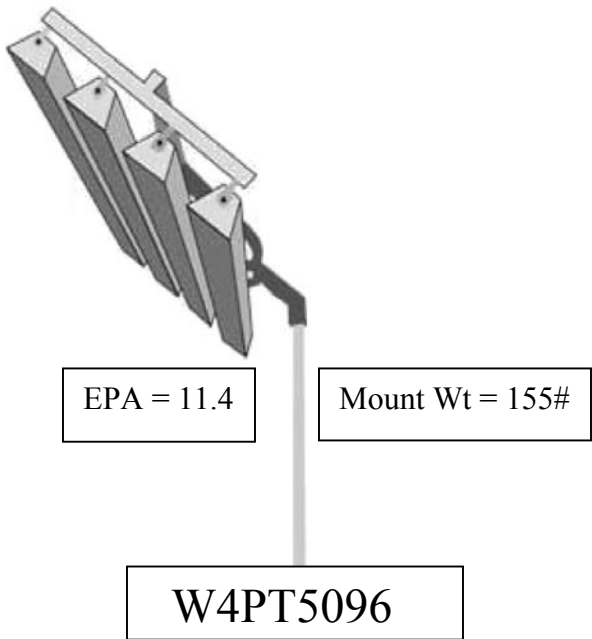
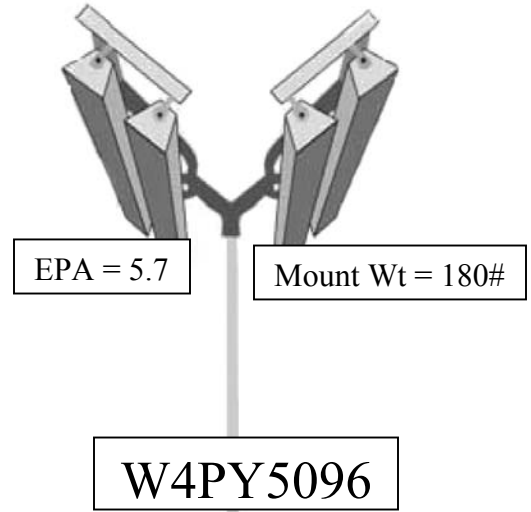
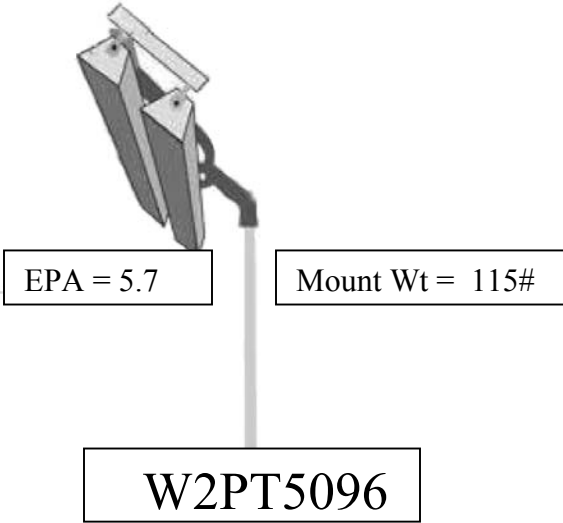


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New *Lighting Arrays*

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We reserve the right to modify design or specifications without prior written notice.

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