

Kevin Murphy
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Knoxville TN 37918

2021 June 7

RE: [5-G-21-UR](#), indoor self storage facility on Middlebrook Pike

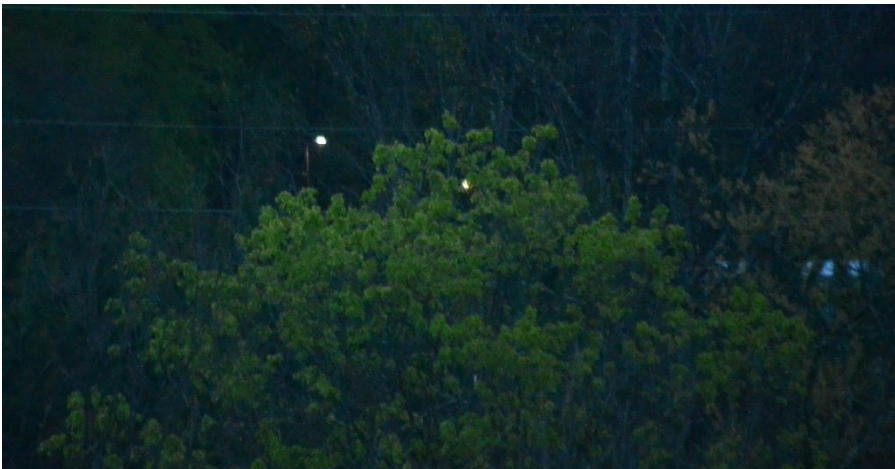
Dear Planning Commissioners and Staff,

I've looked at the submitted lighting plan. The light values at the property lines are very low - that's excellent to see, and I applaud the applicant for the measures taken to achieve that.

There's one area where light trespass from this proposed facility will have the highest impact, and self storage facilities keep their exterior lights on throughout the night. I have personal experience with this – a new self storage facility was built south of my house, and the most noticeable thing about it is the lighting, even though it is designed with the City's more stringent lighting requirements.

The building will sit close to level with the residences on the west side (9121 and 9125 Middlebrook Pike), and that's where light trespass will have the highest impact. Two suggestions to mitigate this:

1. Install House Side shields for the luminaires on the west side of the parking lot - the 3 MH:23 fixtures. Part numbers for those house side shields are depicted on page 12 of the [agenda case file](#). For the self storage unit built near me that is level with my house, and even though the fixtures are full cutoff, I can still see direct light from them because they aren't correctly mounted. Below you can see direct light from these fixtures spilling out, in morning twilight and 800 feet away. House side shields will eliminate the direct light from being visible to adjacent residences.



2. The wall packs on the sides of a metal building will cast a lot of glare out, which defeats the purpose of fully shielded lights. Building cladding directly under wall scones should be a dark, non-reflective material. Please see the below picture of a self storage building built next to me and how the wall

scones shine brightly.



Also, for a more severe example, this is the Dollar General next to me as seen from my house. You can see that the headlights of a car are not nearly as bright as the glare from the wall scones reflecting off the metal exterior.



I urge the applicant to add house side shields for the lights on the west side, as well as to use non-reflective, dark materials on the building below the wall scones on sides facing residences. The rest of the lighting plan looks really good, and I applaud them for those measures.

I request that staff and commission consider adding conditions that for sides facing and visible from adjacent residences, house-side shields be required for free-standing luminaires and that the building material beneath wall scones be a non-reflective, dark material to reduce or eliminate the glare from the wall scone cast the wall.

Sincerely,

--Kevin