Eskaton Partners with Stack Care

PURPOSE: Create adaptive living environments throughout Eskaton by replacing current lighting with a smart sensing, responsive lighting platform.

OJECTIVES:

- Improve overall resident well being: sleep quality, safety & mood
- Create seamless staff and resident usability
- Improve apartment adaptability for both staff and residents

Pilot Study at Eskaton Monroe Lodge:

2016/2017 Pilot Test:



Total apartments with STACK lighting by Fall 2017. 10 additional apts were selected in 2017.



Funding provided by SMUD. 3rd party primarily interested in the costsavings of LED lighting

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91% reported significant improvements in lighting

18% reported increased feelings of independence

100% reported high satisfaction with lighting

100% reported feeling safe in their home

Location of pilot in Eskaton's largest independent living community

2016 Initial Pilot Findings:

- 22% Reduction in time needed to fall asleep
- 27% Reduction in daytime drowsiness
- 45% Improvement in energy levels
- 72% Improvement in daytime activity levels



Follow-up pilot at EML to launch early fall 2017. Will use same measurement tools at pre and post test

Lessons Learned:

- Account for pilot delays due to product availability and infrastructure compatibility
- Better understanding of infrastructure needs to support Stack lighting
- Initial findings support the holistic benefits of circadian lighting
- Next steps:
 - Need to test STACK Care app
 - Apply to different levels of care



Follow-up Studies:

2017 Pilot Test at Eskaton Village Roseville:



Total assisted living apartments installing Stack in Fall 2017



Funding provided by Eskaton. Cost to be determined for pilot.



Location of pilot in assisted living community

Study Explorations:

- Test STACK care app
 - Usability of dashboard
 - Accuracy of data
 - Integration into current work flow
- Better understand how residents living in assisted living adapt to SMART lighting
- Learn the benefits of circadian rhythm
 - Sleep quality using sleep sensors
 - Fall reduction using RL data currently tracking falls within Eskaton
 - Energy levels using qualitative data
- Compare energy consumption with other non-Stack lighting apartments

Resident Testimonials:



"The lights made a huge difference, there was a lot more light in my apartment. Now when I wake up in the morning, you are so happy to have the bright light. At night, the lights gets dimmer, making you sleepy, a subtle reminder to go to bed."

-Hazel, Eskaton Monroe Lodge Resident