

Cost of Ownership Comparison

Lutron EcoSystem® vs. 0-10V

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Cost of Ownership Comparison

Lutron EcoSystem® vs. 0-10V

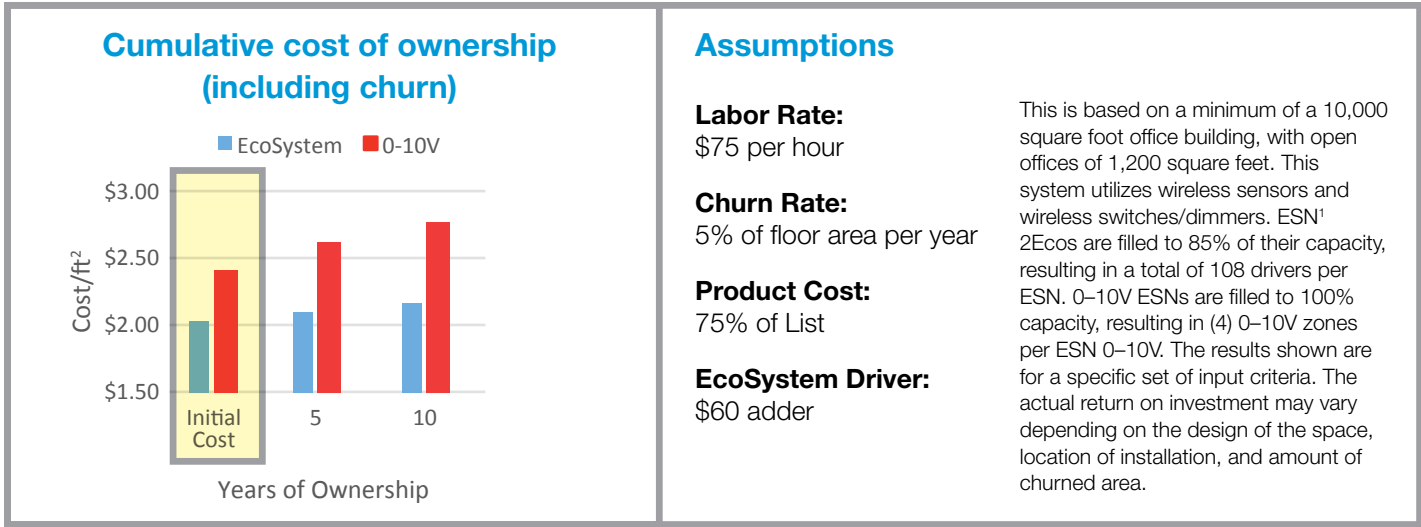
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Open Office with Daylight

This analysis compares the combined initial and ongoing reconfiguration costs between a Lutron EcoSystem and a 0–10V solution. The results show that in many applications EcoSystem is less expensive than a 0–10V system, both initially and when including common changes to lighting configurations. In addition, risks in the design and construction process may add considerable cost or project delays when using a 0–10V system. EcoSystem provides significant cost savings because a single EcoSystem panel can control up to 100 zones of lighting, and power wiring does not have to match the control wiring.

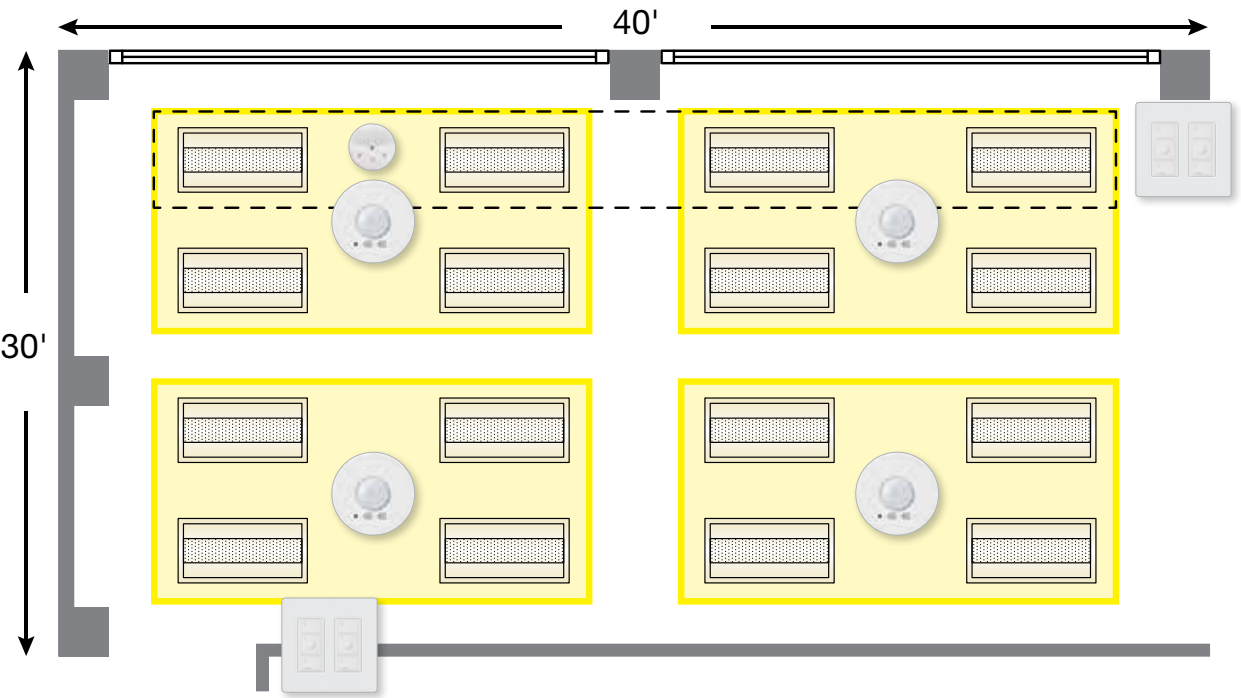
Results

Cost summary	EcoSystem	0-10V
Driver Adder	\$ 0.80 / ft²	—
Controls + Service	\$ 0.84 / ft²	\$ 1.42 / ft²
Installation	\$ 0.36 / ft²	\$ 0.98 / ft²
Final Installed Cost	\$ 2.01 / ft²	\$ 2.41 / ft²
EcoSystem has a lower initial cost.		
Cost to Churn an Area	\$ 0.31 / ft²	\$ 0.61 / ft²

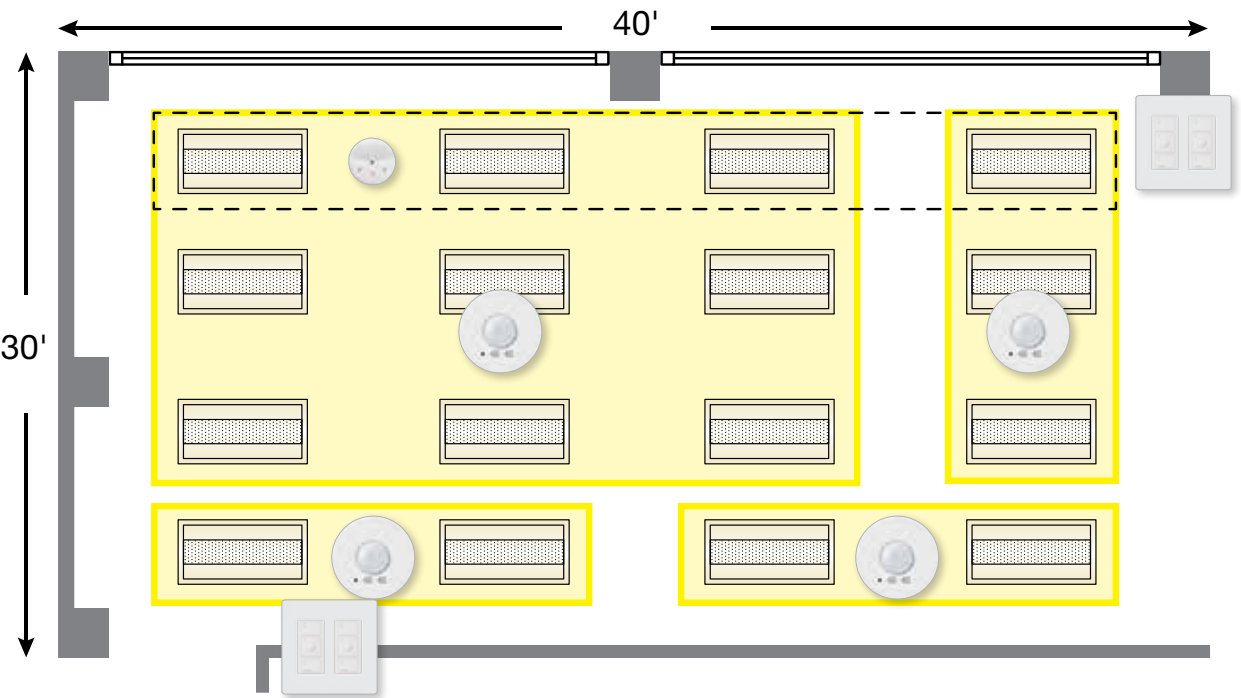


Potential installation issues with 0-10V that would add cost/risk²	Typical cost
Miswiring control wire (polarity)	\$
Landing line (mains) voltage on control input	\$
Rezoning to address post-construction design changes/errors	\$
Rewiring to compensate for inrush problems with non-NEMA 410 devices	\$
Miswire power direct to fixture instead of through relay	\$
Source vs. Sink mismatch	\$
Undesired performance variation in dimming (flicker, voltage drop, mismatched dimming curves, etc.)	\$
Additional zoning and design time required to meet code	\$

Initial Installation



After Churn



Daylight Sensor

Occupancy Sensor

Pico® remotes

Switching/Dimming zone

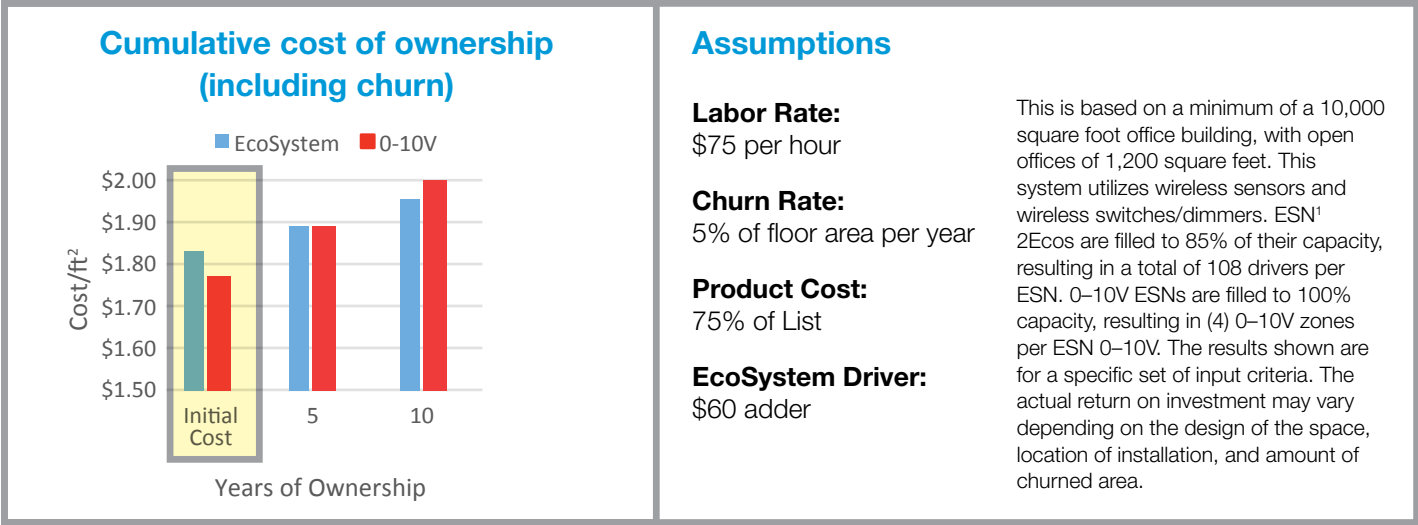
Daylight zone

Open Office

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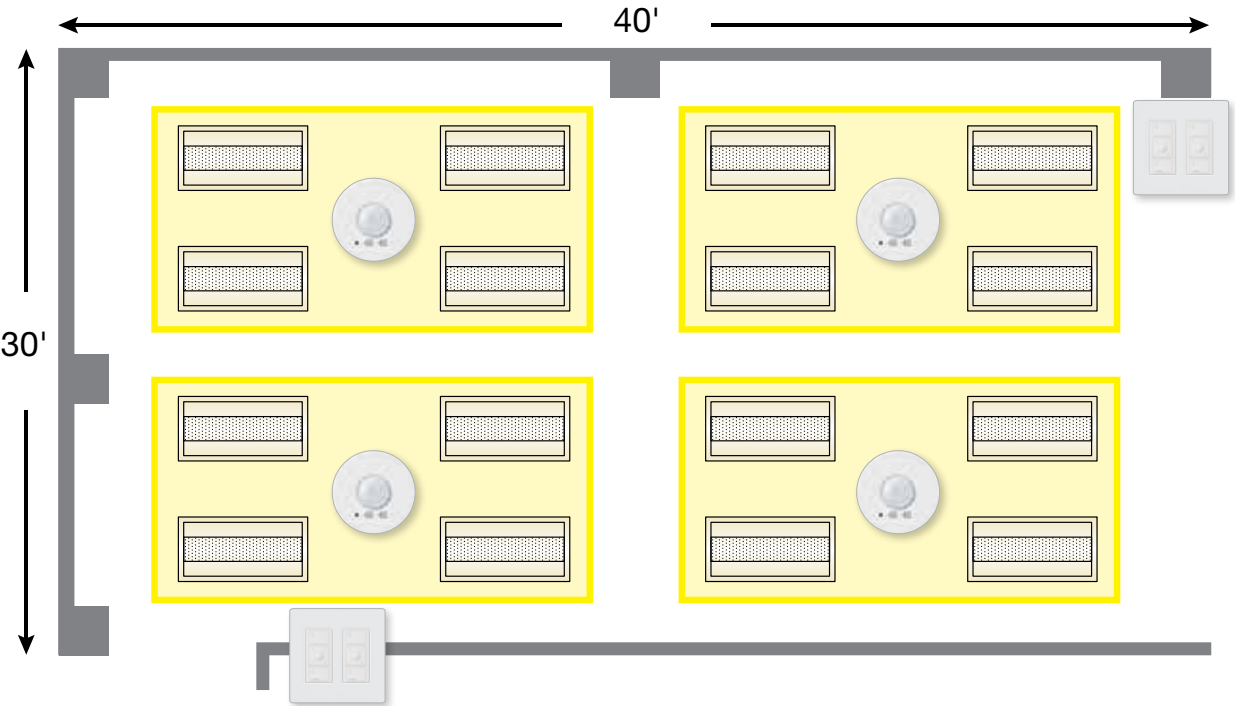
Results

Cost summary	EcoSystem	0-10V
Driver Adder	\$ 0.80 / ft²	—
Controls + Service	\$ 0.69 / ft²	\$ 1.04 / ft²
Installation	\$ 0.34 / ft²	\$ 0.73 / ft²
Final Installed Cost	\$ 1.83 / ft²	\$ 1.77 / ft²
Though 0-10V has a lower initial cost, EcoSystem has a lower cost of ownership.		
Cost to Churn an Area	\$ 0.24 / ft²	\$ 0.47 / ft²

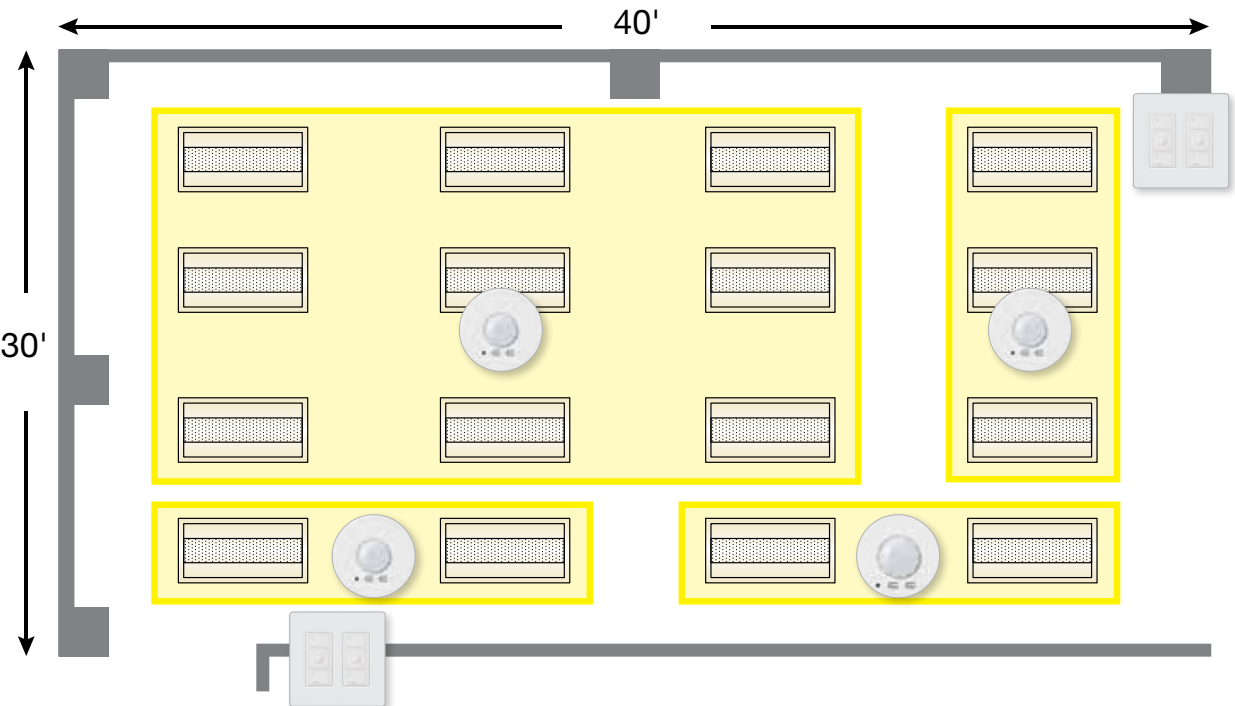


Potential installation issues with 0-10V that would add cost/risk²	Typical cost
Miswiring control wire (polarity)	\$
Landing line (mains) voltage on control input	\$
Rezoning to address post-construction design changes/errors	\$
Rewiring to compensate for inrush problems with non-NEMA 410 devices	\$
Miswire power direct to fixture instead of through relay	\$
Source vs. Sink mismatch	\$
Undesired performance variation in dimming (flicker, voltage drop, mismatched dimming curves, etc.)	\$
Additional zoning and design time required to meet code	\$

Initial Installation



After Churn



Occupancy Sensor

Pico® remotes

Switching/Dimming zone

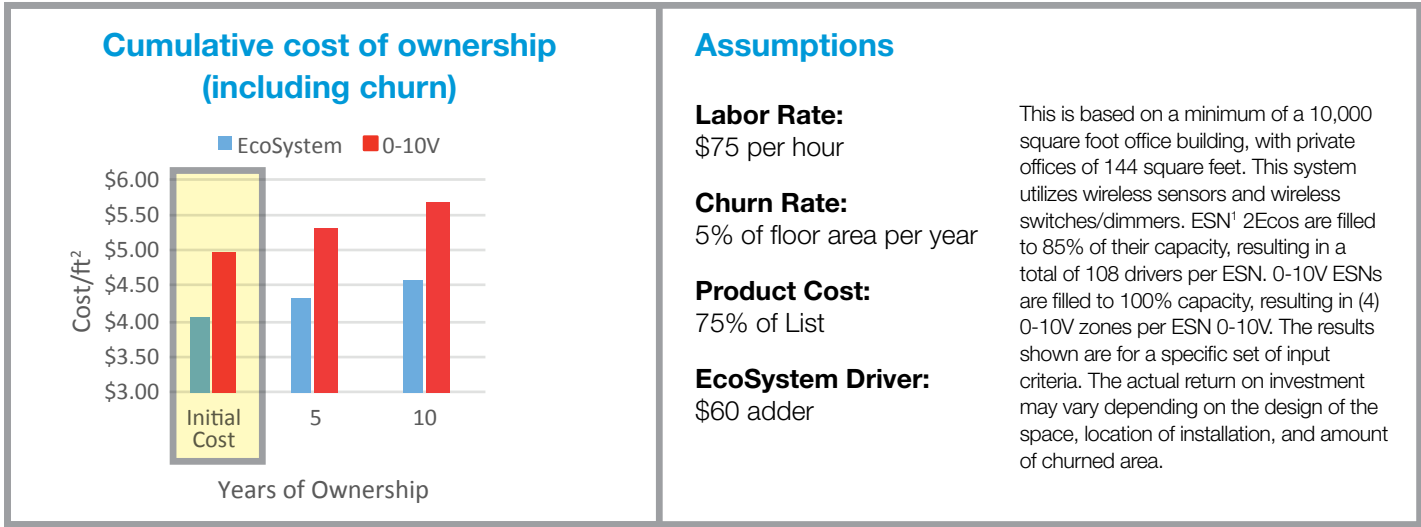
¹ Energi Savr Node.² User is encouraged to ask local installers about their experiences with these typical job site troubleshooting issues and factor those costs into the overall application.

Private Office with Daylight

This analysis compares the combined initial and ongoing reconfiguration costs between a Lutron EcoSystem and a 0–10V solution. The results show that in many applications EcoSystem is less expensive than a 0–10V system, both initially and when including common changes to lighting configurations. In addition, risks in the design and construction process may add considerable cost or project delays when using a 0–10V system. EcoSystem provides significant cost savings because a single EcoSystem panel can control up to 100 zones of lighting, and power wiring does not have to match the control wiring.

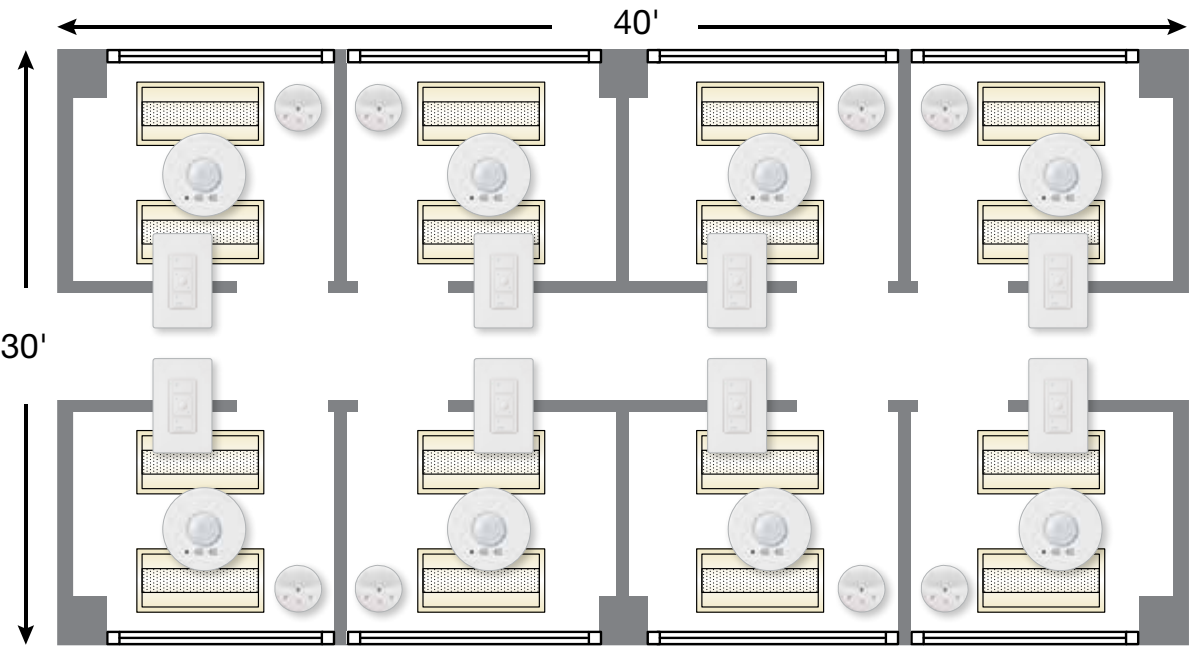
Results

Cost summary	EcoSystem	0-10V
Driver Adder	\$ 0.83 / ft²	—
Controls + Service	\$ 2.54 / ft²	\$ 3.38 / ft²
Installation	\$ 0.68 / ft²	\$ 1.57 / ft²
Final Installed Cost	\$ 4.05 / ft²	\$ 4.95 / ft²
EcoSystem has a lower initial cost.		
Cost to Churn an Area	\$ 1.09 / ft²	\$ 1.41 / ft²

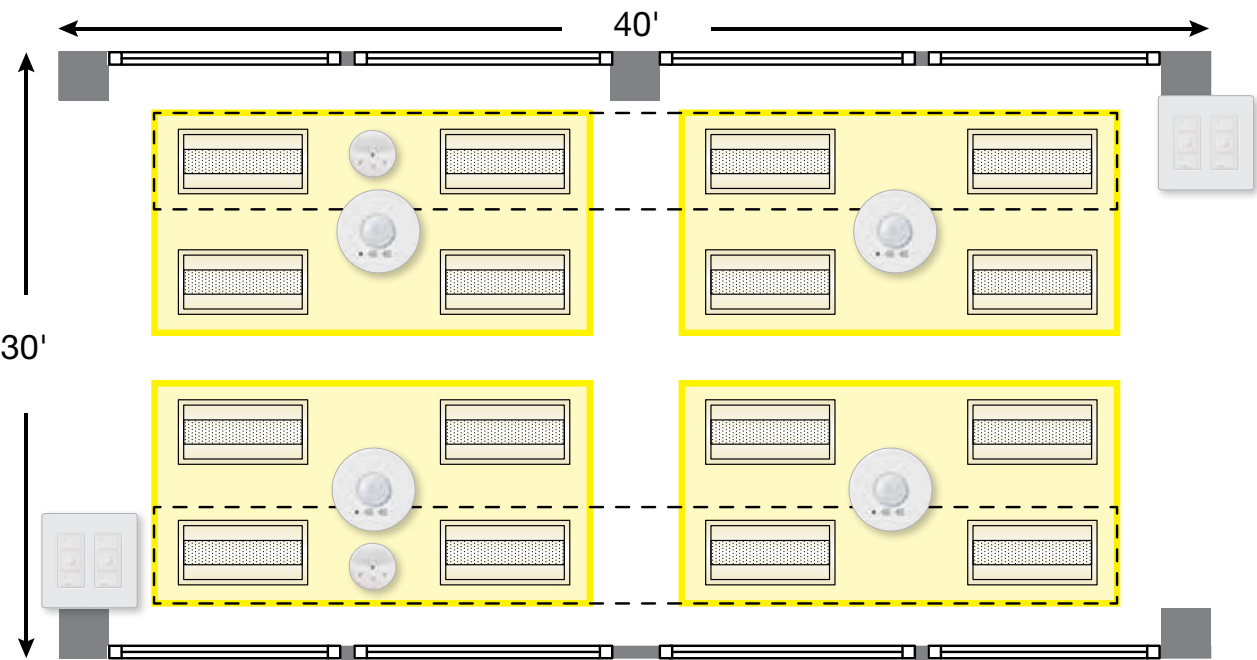


Potential installation issues with 0-10V that would add cost/risk ²	Typical cost
Miswiring control wire (polarity)	\$
Landing line (mains) voltage on control input	\$
Rezoning to address post-construction design changes/errors	\$
Rewiring to compensate for inrush problems with non-NEMA 410 devices	\$
Miswire power direct to fixture instead of through relay	\$
Source vs. Sink mismatch	\$
Undesired performance variation in dimming (flicker, voltage drop, mismatched dimming curves, etc.)	\$
Additional zoning and design time required to meet code	\$

Initial Installation



After Churn



Daylight Sensor

Occupancy Sensor

Pico® remotes

Switching/Dimming zone

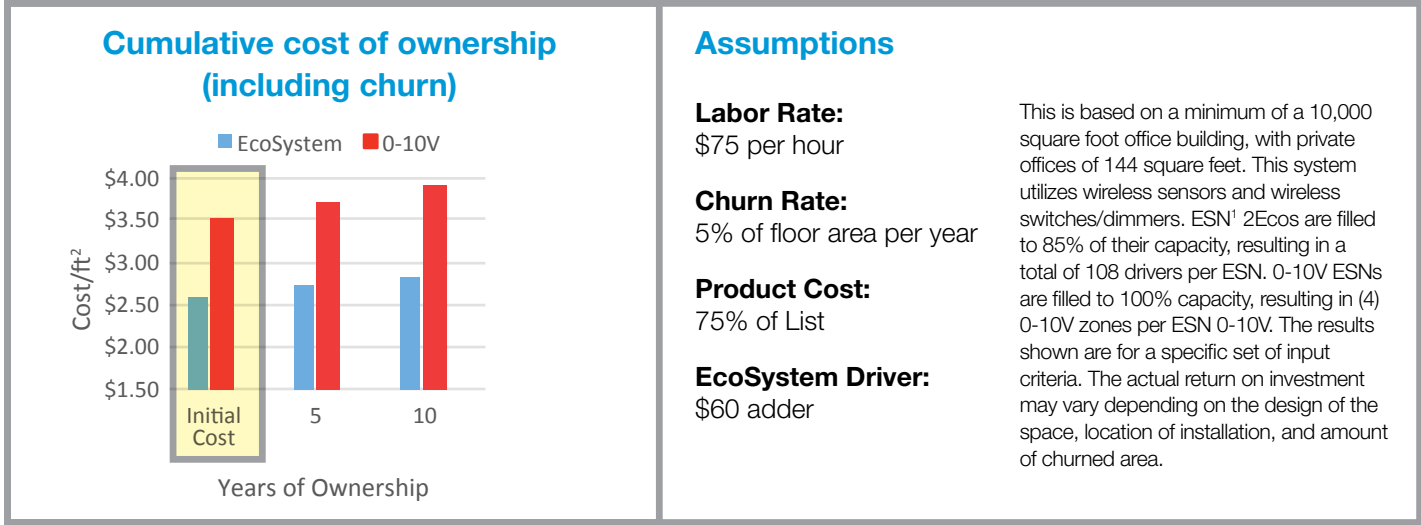
Daylight zone

Private Office

This analysis compares the combined initial and ongoing reconfiguration costs between a Lutron EcoSystem and a 0–10V solution. The results show that in many applications EcoSystem is less expensive than a 0–10V system, both initially and when including common changes to lighting configurations. In addition, risks in the design and construction process may add considerable cost or project delays when using a 0–10V system. EcoSystem provides significant cost savings because a single EcoSystem panel can control up to 100 zones of lighting, and power wiring does not have to match the control wiring.

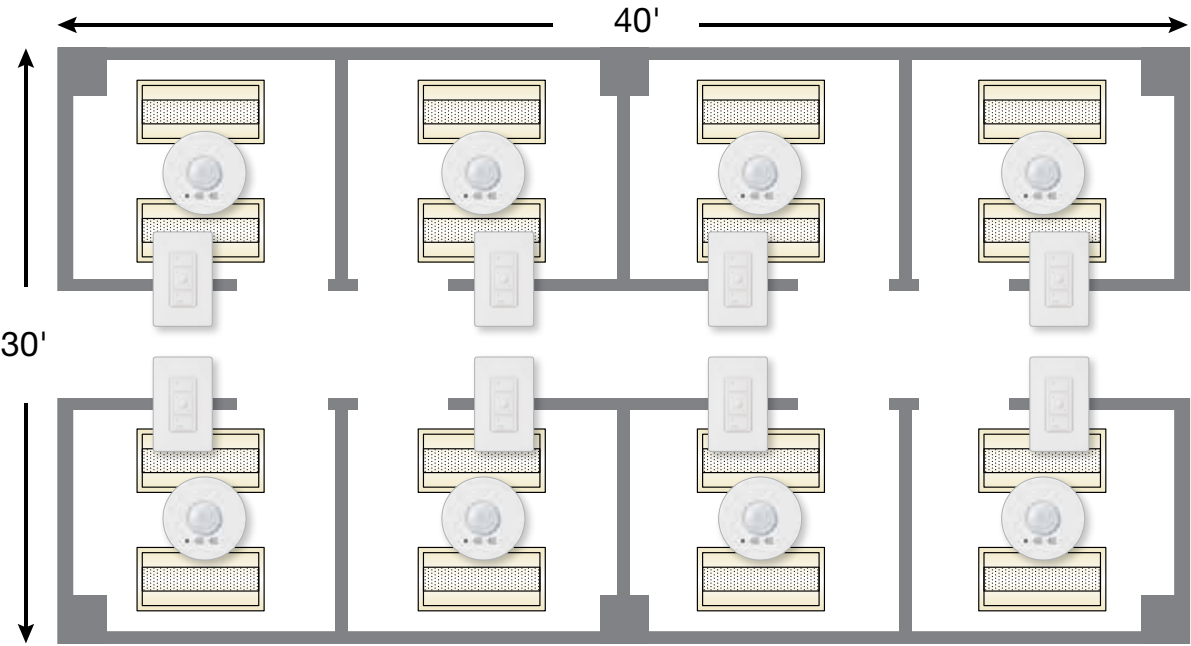
Results

Cost summary	EcoSystem	0-10V
Driver Adder	\$ 0.83 / ft²	—
Controls + Service	\$ 1.29 / ft²	\$ 2.14 / ft²
Installation	\$ 0.47 / ft²	\$ 1.36 / ft²
Final Installed Cost	\$ 2.60 / ft²	\$ 3.50 / ft²
EcoSystem has a lower initial cost.		
Cost to Churn an Area	\$ 0.47 / ft²	\$ 0.80 / ft²

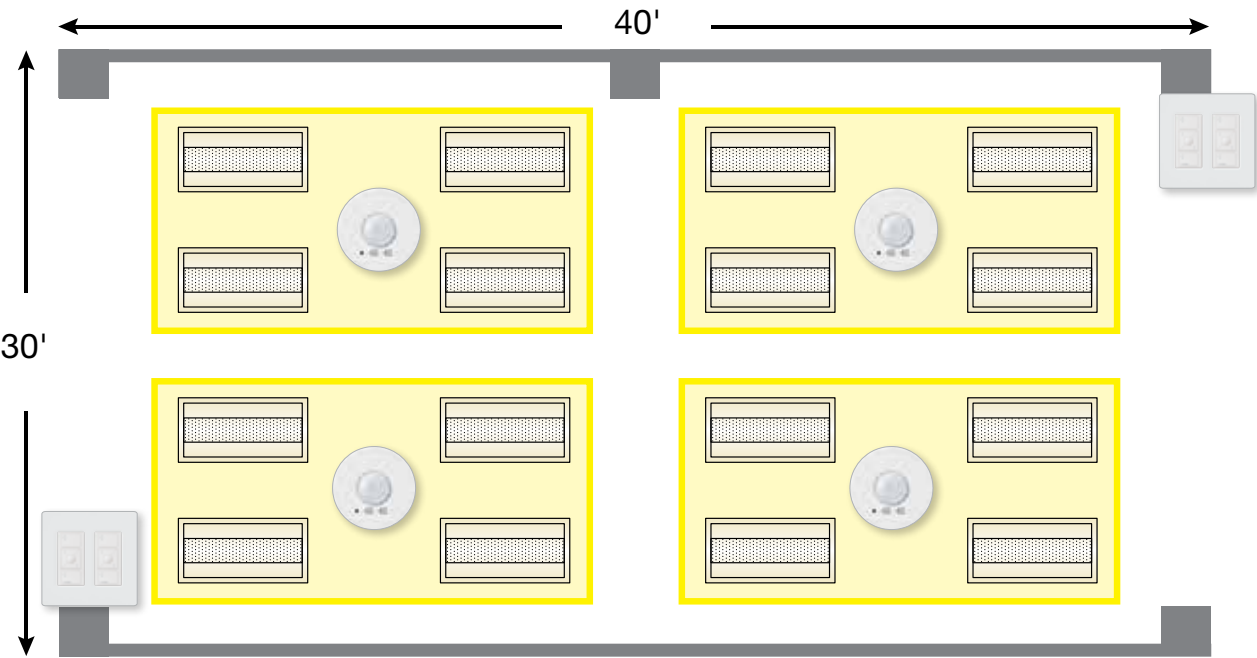


Potential installation issues with 0-10V that would add cost/risk ²	Typical cost
Miswiring control wire (polarity)	\$
Landing line (mains) voltage on control input	\$
Rezoning to address post-construction design changes/errors	\$
Rewiring to compensate for inrush problems with non-NEMA 410 devices	\$
Miswire power direct to fixture instead of through relay	\$
Source vs. Sink mismatch	\$
Undesired performance variation in dimming (flicker, voltage drop, mismatched dimming curves, etc.)	\$
Additional zoning and design time required to meet code	\$

Initial Installation



After Churn



Occupancy Sensor

Pico® remotes

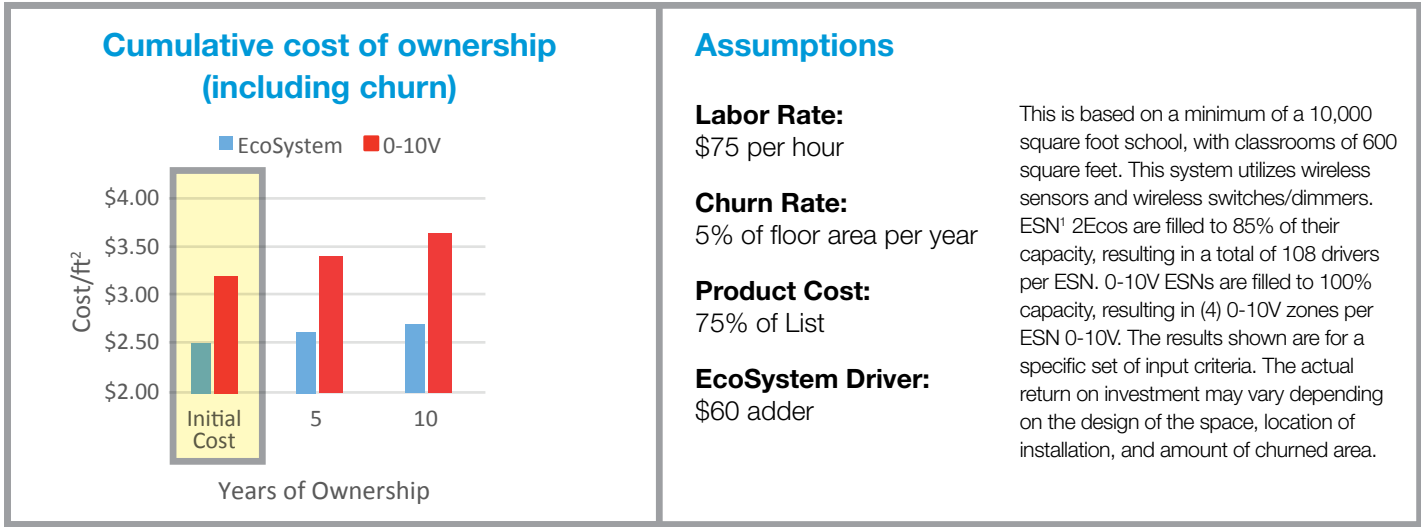
Switching/Dimming zone

Classroom with Daylight

This analysis compares the combined initial and ongoing reconfiguration costs between a Lutron EcoSystem and a 0-10V solution. The results show that in many applications EcoSystem is less expensive than a 0-10V system, both initially and when including common changes to lighting configurations. In addition, risks in the design and construction process may add considerable cost or project delays when using a 0-10V system. EcoSystem provides significant cost savings because a single EcoSystem panel can control up to 100 zones of lighting, and power wiring does not have to match the control wiring.

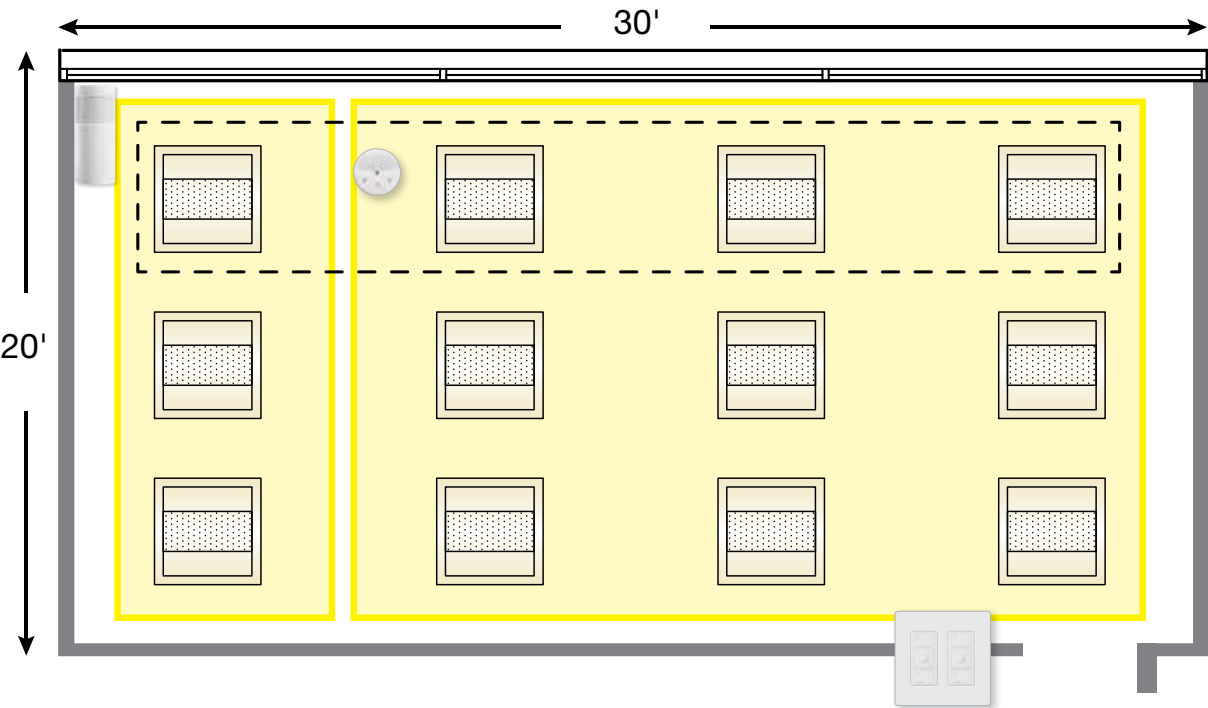
Results

Cost summary	EcoSystem	0-10V
Driver Adder	\$ 1.20 / ft²	—
Controls + Service	\$ 0.90 / ft²	\$ 1.67 / ft²
Installation	\$ 0.43 / ft²	\$ 1.52 / ft²
Final Installed Cost	\$ 2.53 / ft²	\$ 3.19 / ft²
EcoSystem has a lower initial cost.		
Cost to Churn an Area	\$ 0.35 / ft²	\$ 0.83 / ft²

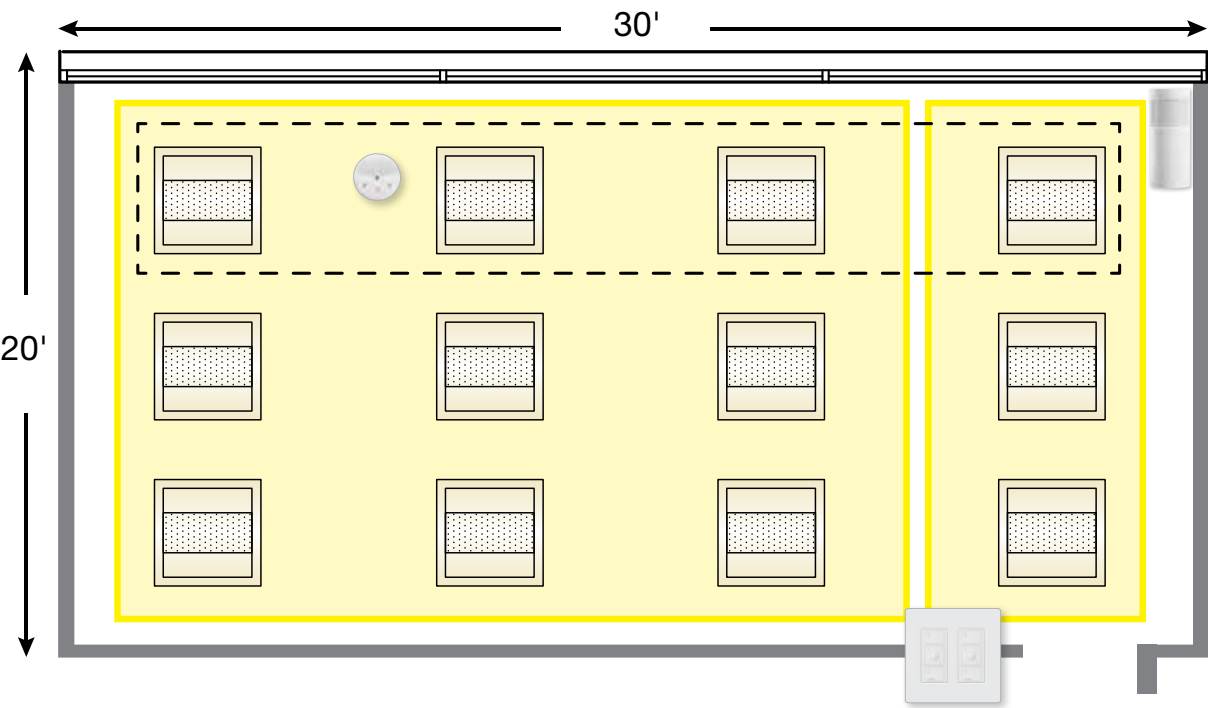


Potential installation issues with 0-10V that would add cost/risk ²	Typical cost
Miswiring control wire (polarity)	\$
Landing line (mains) voltage on control input	\$
Rezoning to address post-construction design changes/errors	\$
Rewiring to compensate for inrush problems with non-NEMA 410 devices	\$
Miswire power direct to fixture instead of through relay	\$
Source vs. Sink mismatch	\$
Undesired performance variation in dimming (flicker, voltage drop, mismatched dimming curves, etc.)	\$
Additional zoning and design time required to meet code	\$

Initial Installation



After Churn



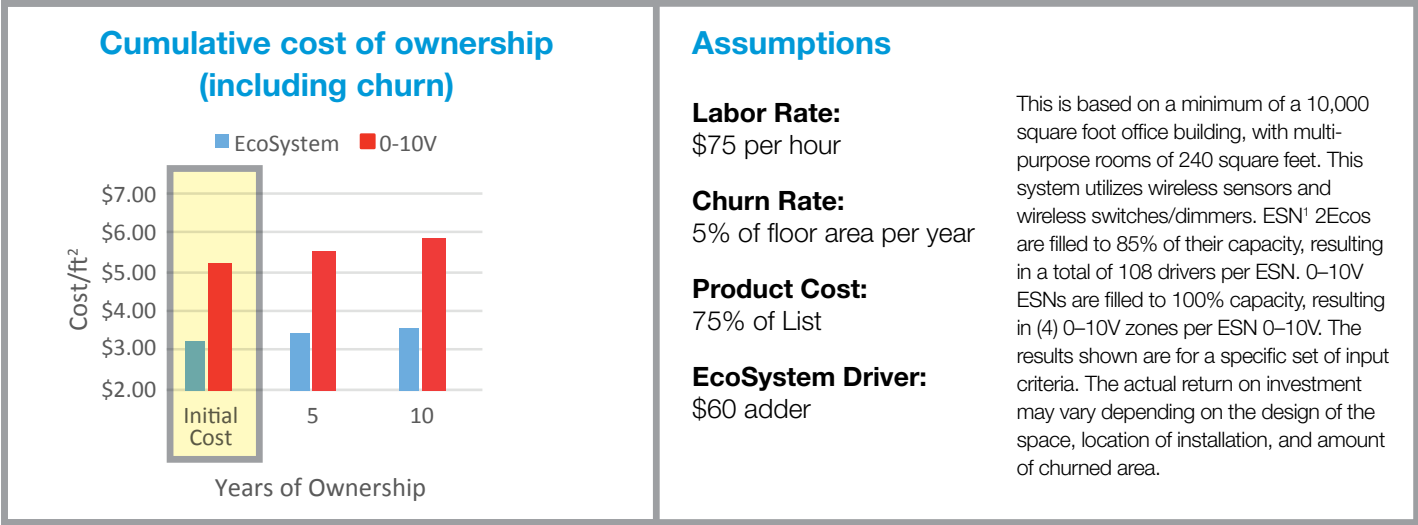
¹ Energi Savr Node[™] ² User is encouraged to ask local installers about their experiences with these typical job site troubleshooting issues and factor those costs into the overall application.

Multi-purpose Room with Daylight

This analysis compares the combined initial and ongoing reconfiguration costs between a Lutron EcoSystem and a 0–10V solution. The results show that in many applications EcoSystem is less expensive than a 0–10V system, both initially and when including common changes to lighting configurations. In addition, risks in the design and construction process may add considerable cost or project delays when using a 0–10V system. EcoSystem provides significant cost savings because a single EcoSystem panel can control up to 100 zones of lighting, and power wiring does not have to match the control wiring.

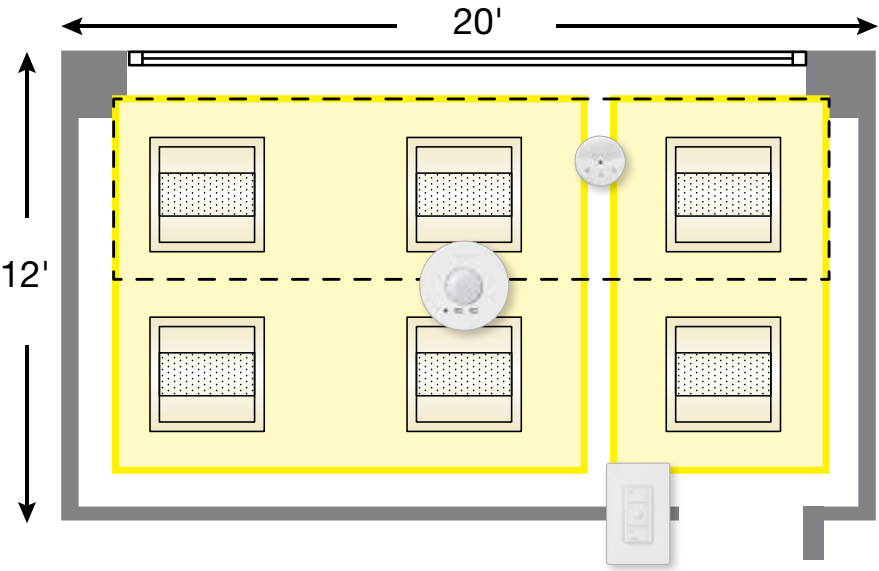
Results

Cost summary	EcoSystem	0-10V
Driver Adder	\$ 1.20 / ft²	—
Controls + Service	\$ 1.58 / ft²	\$ 3.25 / ft²
Installation	\$ 0.50 / ft²	\$ 1.97 / ft²
Final Installed Cost	\$ 3.28 / ft²	\$ 5.22 / ft²
EcoSystem has a lower initial cost.		
Cost to Churn an Area	\$ 0.66 / ft²	\$ 1.18 / ft²

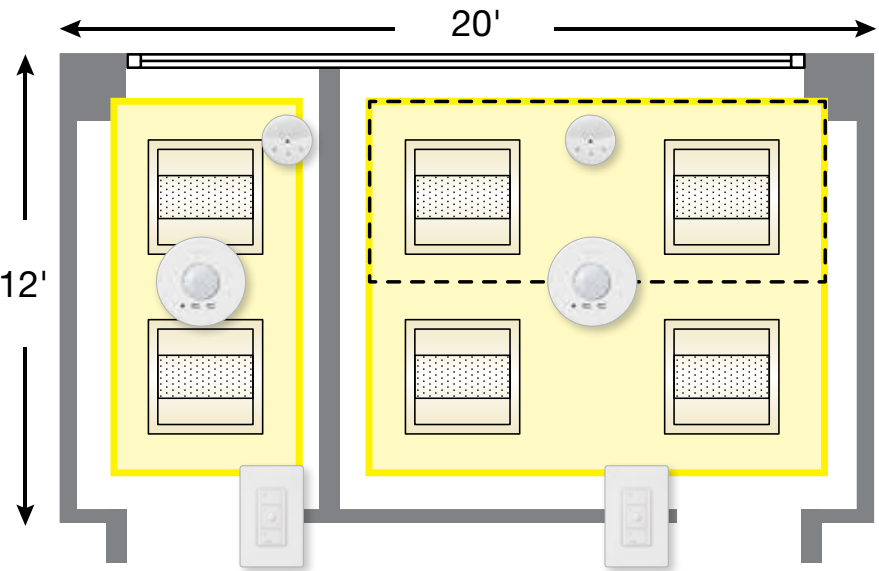


Potential installation issues with 0-10V that would add cost/risk ²	Typical cost
Miswiring control wire (polarity)	\$
Landing line (mains) voltage on control input	\$
Rezoning to address post-construction design changes/errors	\$
Rewiring to compensate for inrush problems with non-NEMA 410 devices	\$
Miswire power direct to fixture instead of through relay	\$
Source vs. Sink mismatch	\$
Undesired performance variation in dimming (flicker, voltage drop, mismatched dimming curves, etc.)	\$
Additional zoning and design time required to meet code	\$

Initial Installation



After Churn



Daylight Sensor

Occupancy Sensor

Pico® remotes

Switching/Dimming zone

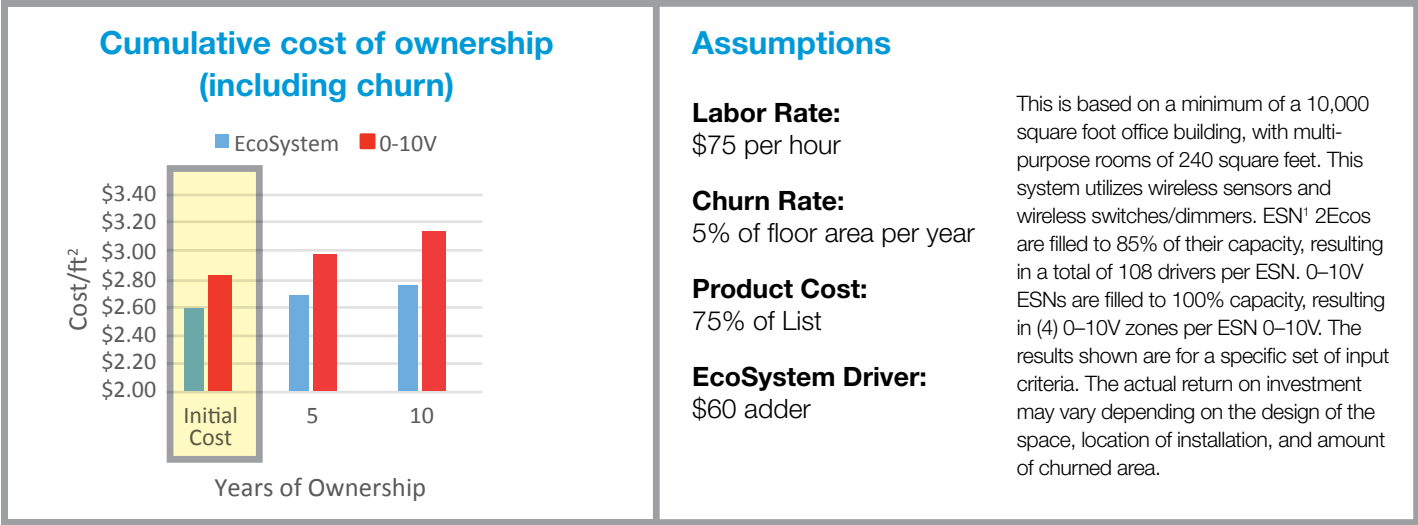
Daylight zone

Multi-purpose Room

This analysis compares the combined initial and ongoing reconfiguration costs between a Lutron EcoSystem and a 0–10V solution. The results show that in many applications EcoSystem is less expensive than a 0–10V system, both initially and when including common changes to lighting configurations. In addition, risks in the design and construction process may add considerable cost or project delays when using a 0–10V system. EcoSystem provides significant cost savings because a single EcoSystem panel can control up to 100 zones of lighting, and power wiring does not have to match the control wiring.

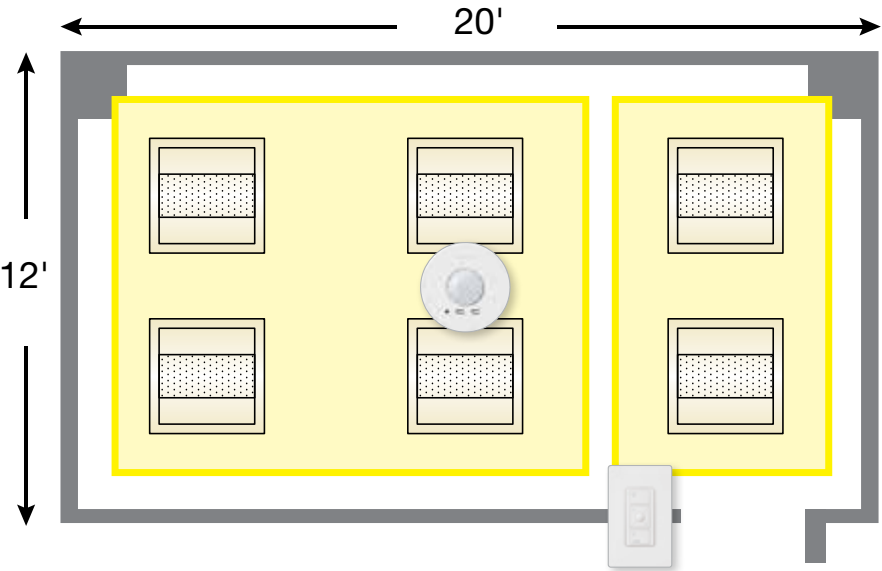
Results

Cost summary	EcoSystem	0-10V
Driver Adder	\$ 1.20 / ft²	—
Controls + Service	\$ 0.98 / ft²	\$ 1.73 / ft²
Installation	\$ 0.40 / ft²	\$ 1.07 / ft²
Final Installed Cost	\$ 2.58 / ft²	\$ 2.81 / ft²
EcoSystem has a lower initial cost.		
Cost to Churn an Area	\$ 0.36 / ft²	\$ 0.64 / ft²

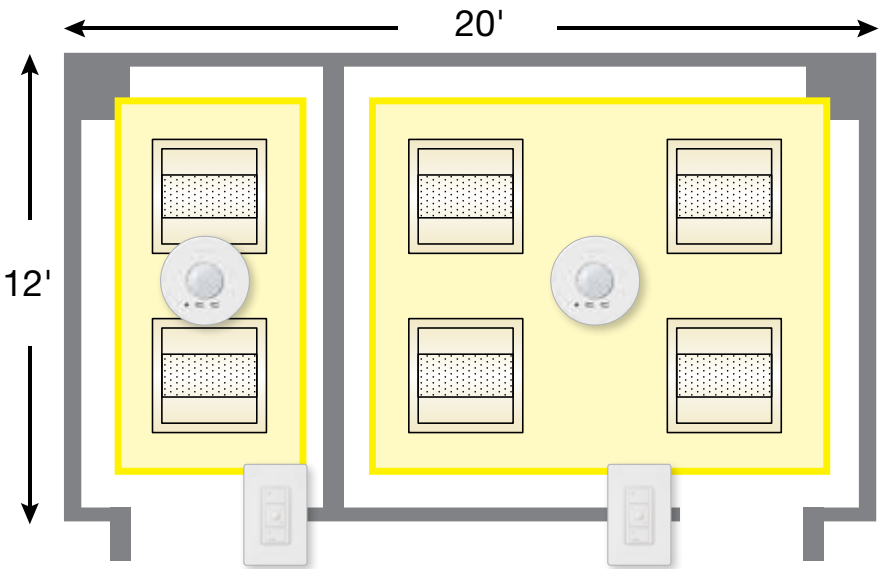


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Miswiring control wire (polarity)	\$
Landing line (mains) voltage on control input	\$
Rezoning to address post-construction design changes/errors	\$
Rewiring to compensate for inrush problems with non-NEMA 410 devices	\$
Miswire power direct to fixture instead of through relay	\$
Source vs. Sink mismatch	\$
Undesired performance variation in dimming (flicker, voltage drop, mismatched dimming curves, etc.)	\$
Additional zoning and design time required to meet code	\$

Initial Installation



After Churn



Occupancy Sensor

Pico® remotes

Switching/Dimming zone

Notes

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lutron.com

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Customer Assistance

Online: lutron.com/help

Email: support@lutron.com

Phone: 1.844.LUTRON1 (588.7661) — includes 24/7 technical support

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