

Lincoln Park High School Report

2026-01-01 to 2026-01-15

📊 Executive Summary

Robot deployment during 2026-01-01 to 2026-01-15 processed 84.0 total tasks, covering 218,051.0 square feet with 22.5 total running hours.

1

Total Robots

218,051.0

Sq Ft Cleaned

vs last: +20257.0 sq ft

73.5%

Coverage

vs last: +73.5%

22.5

Total Running Hours

vs last: +22.5 hrs

2.2

Avg Daily Running Hours per Robot (hrs/robot)

vs last: +2.2 hrs/robot

10/15

Days with Tasks

vs last: +10.0 days

27.3 hrs

Hours Saved vs Manual

vs last: +27.3 hrs

\$681

Savings Realized

vs last: +681.4

🎯 Highlights and Recommendations

- Cleaning coverage increased by 73.5%, suggesting improved cleaning performance
- Average daily runtime increased by 2.2 hrs/robot
- Task completion rate improved by 100.0%
- Cost savings increased by \$681, demonstrating growing operational efficiency
- Total area cleaned expanded by 20,257 sq ft

🤖 Individual Robot Performance

Key Metrics: **Utilization:** Working hours / Uptime hours × 100. Measures productive time efficiency. **Health Score:** Overall robot health (0-100) based on availability (40%), task success (20%), efficiency (20%), mode performance (10%), and battery health (10%).

Robot ID	Location	Total Tasks	Tasks Completed	Total Area Cleaned	Average Coverage	Days with Tasks	Running Hours	Utilization	Health Score
GS401-6220-M6R-8000	Lincoln Park High School	84	84	218,051 sq ft	73.5%	10	22.5 hrs	6.2%	100.0 (Excellent)

\$ Individual Robot ROI Breakdown

Investment and ROI analysis per robot based on lease model and operational savings.

Robot ID	Months Deployed	Total Investment	Cumulative Savings	ROI
GS401-6220-M6R-8000	1	\$1,500.00	\$681.41	45.4%

📋 Task & Schedule Performance

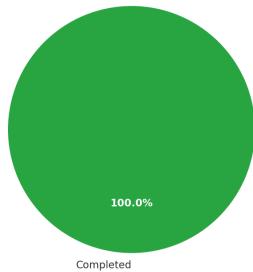
Task Management Efficiency

Task tracking across all facilities: 84 total tasks with 20,257 sq ft total coverage and 16.1 minutes average task duration.

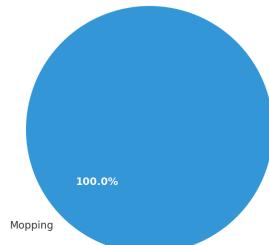
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Metric	Total	Completed	Task Completion Rate	Average Duration
All Facilities	84	84	100.0% (vs last: +100.0%)	16.1 min (vs last: +16.1 min)

Task Status Distribution



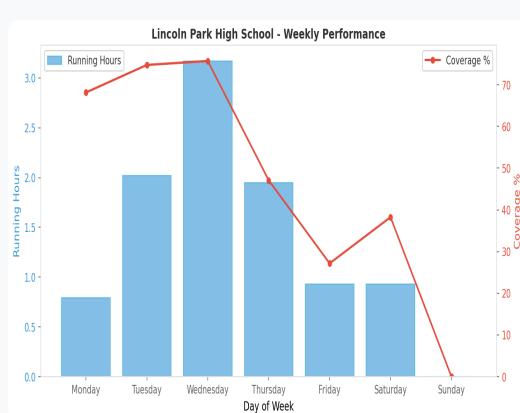
Task Mode Distribution



Task Efficiency by Location

Daily task performance showing running hours and coverage efficiency patterns for each location. Each chart displays actual operational data to identify location-specific performance trends.

Lincoln Park High School



Task Mode: **Mopping**

Avg Duration: **16.1 min** (vs last: N/A)

Days with Tasks: **10/15** (vs last: N/A)

Highest Coverage: **Wednesday** (vs last: N/A)

Lowest Coverage: **Sunday** (vs last: N/A)

Facility-Specific Performance

Lincoln Park High School

Performance metrics for Lincoln Park High School: 84 total tasks, 218,051 sq ft total area cleaned, 73.5% average coverage, 9698.9 sq ft/hour time efficiency, and 0.4 sq ft/fl oz water efficiency.

Metric	Performance	vs Last Period
Total Area Cleaned	218,051 sq ft	N/A
Average Coverage	73.5%	N/A
Running Hours	22.5 hours	N/A
Time Efficiency	9698.9 sq ft/hr	N/A
Power Efficiency	28,616 sq ft/kWh	N/A
Water Efficiency	0.4 sq ft/fl oz	N/A

Map-Specific Performance

Coverage: (actual area / planned area) × 100. Area Cleaned: sum of actual cleaned area converted to sq ft.

Running Hours: sum of task durations converted from seconds. Power Efficiency: area cleaned / energy consumption. Time Efficiency: area cleaned / running hours. Water Efficiency: area cleaned / water consumption. Days with Tasks: unique dates when tasks occurred.

Lincoln Park High School Maps

LHSFL2SOUTH

Coverage:  92.5% vs last: N/A

21,752 Area Cleaned (sq ft) vs last: N/A	2.4 Running Hours vs last: N/A	8950 Time Efficiency (sq ft/hr) vs last: N/A	25591 Power Efficiency (sq ft/kWh) vs last: N/A
0.3 Water Efficiency (sq ft/fl oz) vs last: N/A	7 Days with Tasks vs last: N/A		

LHSMainGym

Coverage:  83.6% vs last: N/A

30,479 Area Cleaned (sq ft) vs last: N/A	2.4 Running Hours vs last: N/A	12504 Time Efficiency (sq ft/hr) vs last: N/A	39076 Power Efficiency (sq ft/kWh) vs last: N/A
0.5 Water Efficiency (sq ft/fl oz) vs last: N/A	4 Days with Tasks vs last: N/A		

LHSFL1SOUTH

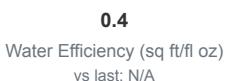
Coverage:  82.6% vs last: N/A

22,512 Area Cleaned (sq ft) vs last: N/A	2.7 Running Hours vs last: N/A	8398 Time Efficiency (sq ft/hr) vs last: N/A	24207 Power Efficiency (sq ft/kWh) vs last: N/A
0.4 Water Efficiency (sq ft/fl oz) vs last: N/A	7 Days with Tasks vs last: N/A		

LHSFL3SOUTH

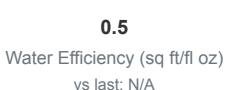
Coverage:  77.8% vs last: N/A

10,599 Area Cleaned (sq ft) vs last: N/A	2.6 Running Hours vs last: N/A	4078 Time Efficiency (sq ft/hr) vs last: N/A	30283 Power Efficiency (sq ft/kWh) vs last: N/A
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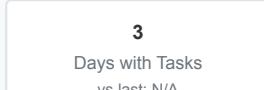
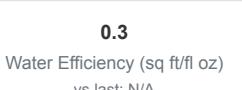
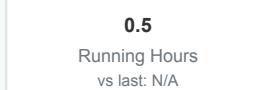
LHSCAFETERIA

Coverage:  **73.2%** vs last: N/A



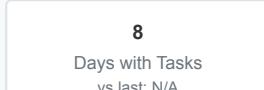
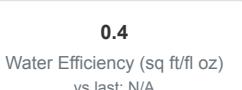
LHSFL1NorthHallA

Coverage:  **71.5%** vs last: N/A



LHSFL1NORTH

Coverage:  **71.3%** vs last: N/A



LHSBASEMENT

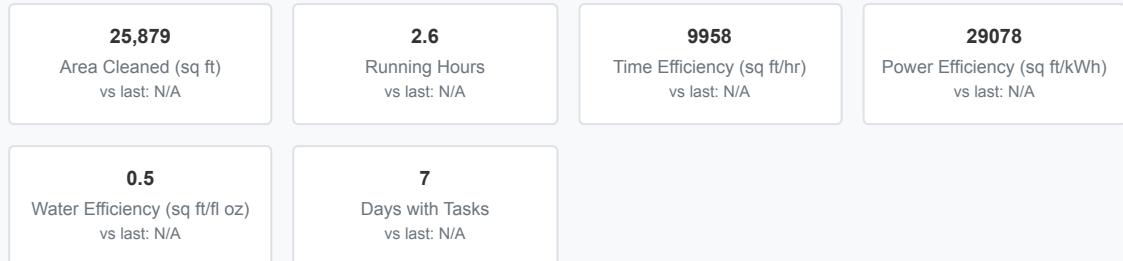
Coverage:  **67.9%** vs last: N/A





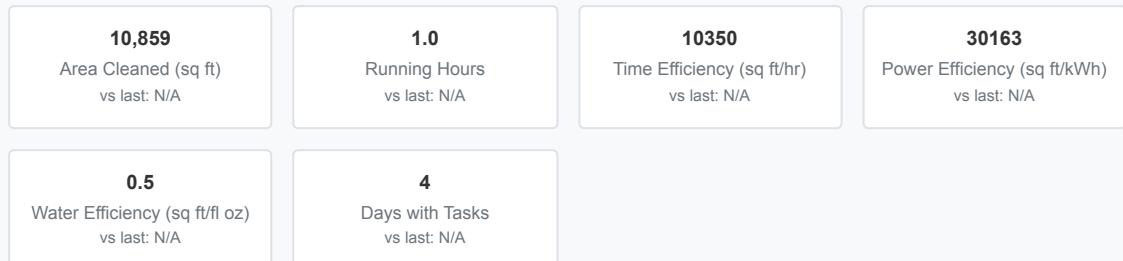
LHSFL2North

Coverage:  **66.2%** vs last: N/A



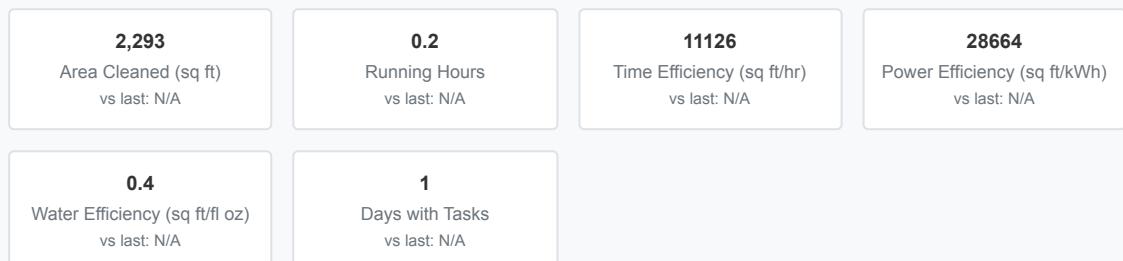
LHSFL3NORTH

Coverage:  **56.4%** vs last: N/A



LHSAUXGYM

Coverage:  **47.3%** vs last: N/A



LHS

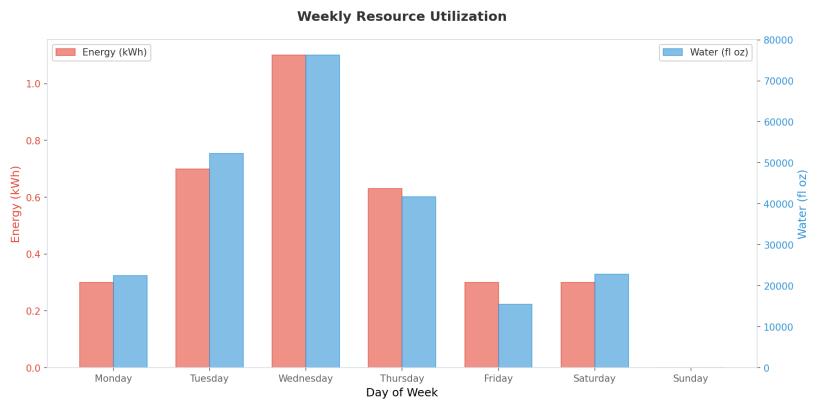
Coverage:  **41.3%** vs last: N/A

1,963 Area Cleaned (sq ft) vs last: N/A	0.2 Running Hours vs last: N/A	9720 Time Efficiency (sq ft/hr) vs last: N/A	28040 Power Efficiency (sq ft/kWh) vs last: N/A
0.6 Water Efficiency (sq ft/fl oz) vs last: N/A	1 Days with Tasks vs last: N/A		

⚡ Resource Utilization & Efficiency

Resource Performance

Resource utilization: 7.60 kWh total energy consumption, 519429 fl oz total water usage, 28616 sq ft per kWh energy efficiency, and 54 sq ft per gallon water efficiency.



Energy Usage by Facility

- Lincoln Park High School: 7.6 kWh (vs last: N/A)

Water Usage by Facility

- Lincoln Park High School: 519429 fl oz (vs last: N/A)

🤖 Robot Health & Utilization Analysis

Comprehensive health and utilization metrics for each robot, including uptime/downtime analysis and component-level health scores.

Metric Definitions

Utilization: Working hours / Uptime hours × 100.
Indicates how efficiently the robot's available time is used for productive tasks.

Availability: Percentage of time robot is online and available (weight: 40%)

Task Success: Percentage of successfully completed tasks (weight: 20%)

Efficiency: Task efficiency score based on performance metrics (weight: 20%)

Mode Performance: Performance in different cleaning modes like sweeping/scrubbing (weight: 10%)

Battery Health: Battery State of Health (SOH) percentage (weight: 10%)

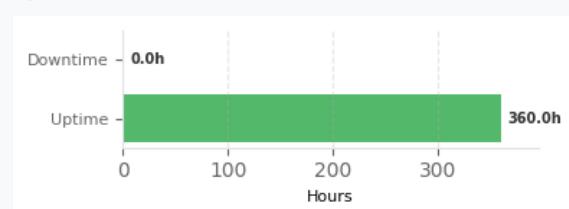
Robot GS401-6220-M6R-8000 (cps-demo-Omnie) - **Health: 100.0 (Excellent)** | **Utilization: 6.2%**

Health Score Breakdown

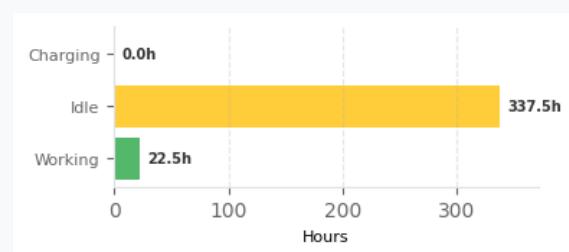
Availability	100.0
Task Success	100.0
Efficiency	100.0
Mode Performance	100.0

Time Distribution

Uptime vs Downtime



Working vs Idle vs Charging



Uptime: 360.0h (100.0%)

Downtime: 0.0h (0.0%)

Working: 22.5h (6.2%)

Idle: 337.5h (93.8%)

Charging: 0.0h (0.0%)

Utilization: 6.2%

Financial Performance

Financial analysis based on actual resource usage: \$0.00/sq ft average cost per square foot, \$0.00 total operational cost, 27.3 hours saved compared to manual cleaning, and \$681.41 in realized savings.

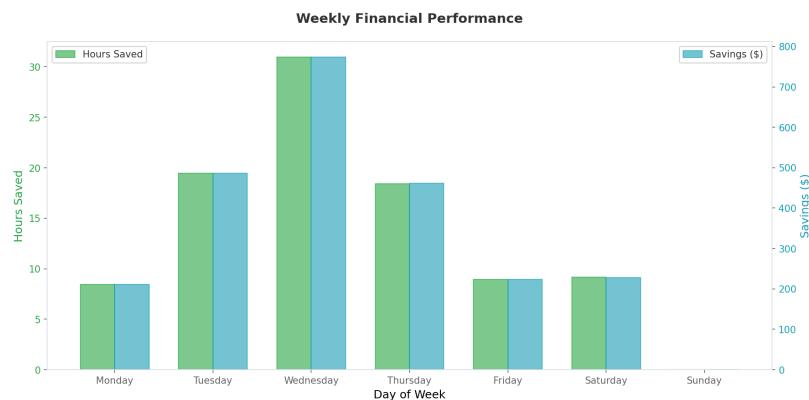
Operational Metric	Value	vs Previous Period	Notes
Cost per Sq Ft	\$0.00/sq ft	0	Operational efficiency (water + energy cost per area)
Total Operational Cost	\$0.00	0	Robot operational cost this period
ROI	45.4%	+45.4%	Return on Investment (cumulative savings ÷ total investment × 100)
Total Investment	\$1,500.00	N/A	Cumulative lease investment (\$1500/month per robot)
Cost Efficiency Improvement	100.0%	+100.0%	Efficiency improvement vs manual cleaning
Water Cost	\$0.00	0	Water resource cost component
Energy Cost	\$0.00	0	Energy resource cost component

💡 ROI Calculation Method

ROI Formula: Cumulative Savings ÷ Total Investment × 100

Investment: \$1,500/month per robot × months elapsed (rounded up for billing)

Cumulative Savings: All-time savings from first robot task to end of reporting period



Financial Impact Summary

\$681.41

Manual Cleaning Cost

vs last: +681.4

\$681.41

Savings Realized

vs last: +681.4

27.3 hrs

Hours Saved vs Manual

vs last: +27.3 hrs

\$8,176.91

Annual Projected Savings

vs last: +8176.9

\$681.41

Cumulative Savings

vs last: +681.4

2.2 months

Payback Period

vs last: 0 months

\$681.41/month

Monthly Savings Rate

vs last: +681.4

Financial calculations based on actual resource usage, lease model, and human cleaning speed benchmarks.



Charging Sessions Performance

Charging patterns and battery management during the reporting period: 0 total sessions, 0.0 minutes average duration, and 0.0% average power gain per session.

0

Total Charging Sessions

vs last: 0 sessions

0.0 min

Avg Charging Duration

vs last: 0 min

0.0 min

Median Charging Duration

vs last: 0 min

+0.0%

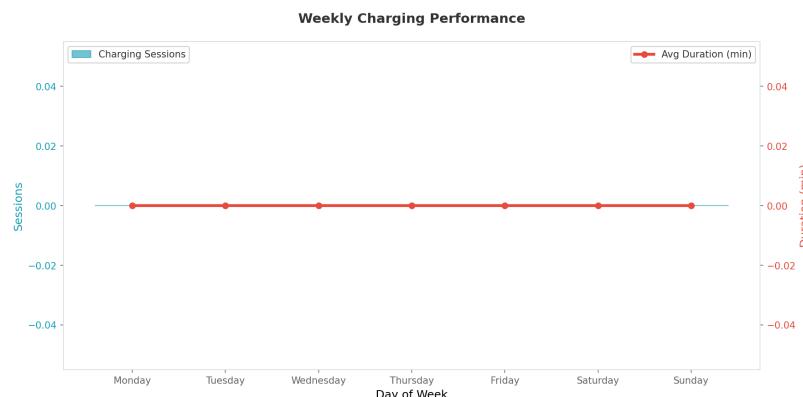
Avg Power Gain per Session

vs last: 0%

+0.0%

Median Power Gain per Session

vs last: 0%



Charging Patterns by Location

Location-specific charging data not available

⌚ Conclusion

2026-01-01 To 2026-01-15 performance summary: 100.0% task completion rate across 1.0 robot(s), 84.0 tasks completed, 218,051.0 sq ft cleaned, 0.0 charging sessions, and 45.4% return on investment.

Lincoln Park High School Report

Period: 2026-01-01 to 2026-01-15

Robots Included: 1

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