

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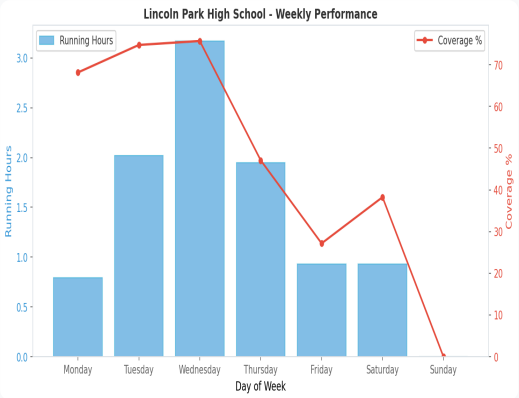
Metric	Total	Completed	Task Completion Rate	Average Duration
All Facilities	84	84	100.0% (vs last: +100.0%)	16.1 min (vs last: +16.1 min)



Task 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: $(\text{actual area} / \text{planned area}) \times 100$. Area Cleaned: sum of actual cleaned area converted to sq ft.

Running Hours: sum of task durations converted from seconds. Power Efficiency: $\text{area cleaned} / \text{energy}$

consumption. Time Efficiency: $\text{area cleaned} / \text{running hours}$. Water Efficiency: $\text{area cleaned} / \text{water consumption}$.

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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0.4
Water Efficiency (sq ft/fl oz)
vs last: N/A

7
Days with Tasks
vs last: N/A

LHSCAFETERIA

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

31,926
Area Cleaned (sq ft)
vs last: N/A

3.3
Running Hours
vs last: N/A

9674
Time Efficiency (sq ft/hr)
vs last: N/A

29561
Power Efficiency (sq ft/kWh)
vs last: N/A

0.5
Water Efficiency (sq ft/fl oz)
vs last: N/A

6
Days with Tasks
vs last: N/A

LHSFL1NorthHallA

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

3,971
Area Cleaned (sq ft)
vs last: N/A

0.5
Running Hours
vs last: N/A

7773
Time Efficiency (sq ft/hr)
vs last: N/A

22059
Power Efficiency (sq ft/kWh)
vs last: N/A

0.3
Water Efficiency (sq ft/fl oz)
vs last: N/A

3
Days with Tasks
vs last: N/A

LHSFL1NORTH

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

47,758
Area Cleaned (sq ft)
vs last: N/A

4.9
Running Hours
vs last: N/A

9824
Time Efficiency (sq ft/hr)
vs last: N/A

29300
Power Efficiency (sq ft/kWh)
vs last: N/A

0.4
Water Efficiency (sq ft/fl oz)
vs last: N/A

8
Days with Tasks
vs last: N/A

LHSBASEMENT

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

8,059

1.1

7573

19188

Area Cleaned (sq ft)
vs last: N/A

Running Hours
vs last: N/A

Time Efficiency (sq ft/hr)
vs last: N/A

Power Efficiency (sq ft/kWh)
vs last: N/A

0.3

Water Efficiency (sq ft/fl oz)
vs last: N/A

5

Days with Tasks
vs last: N/A

LHSFL2North

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

25,879

Area Cleaned (sq ft)
vs last: N/A

2.6

Running Hours
vs last: N/A

9958

Time Efficiency (sq ft/hr)
vs last: N/A

29078

Power Efficiency (sq ft/kWh)
vs last: N/A

0.5

Water Efficiency (sq ft/fl oz)
vs last: N/A

7

Days with Tasks
vs last: N/A

LHSFL3NORTH

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

10,859

Area Cleaned (sq ft)
vs last: N/A

1.0

Running Hours
vs last: N/A

10350

Time Efficiency (sq ft/hr)
vs last: N/A

30163

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

LHSAUXGYM

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

2,293

Area Cleaned (sq ft)
vs last: N/A

0.2

Running Hours
vs last: N/A

11126

Time Efficiency (sq ft/hr)
vs last: N/A

28664

Power Efficiency (sq ft/kWh)
vs last: N/A

0.4

Water Efficiency (sq ft/fl oz)
vs last: N/A

1

Days with Tasks
vs last: N/A

LHS

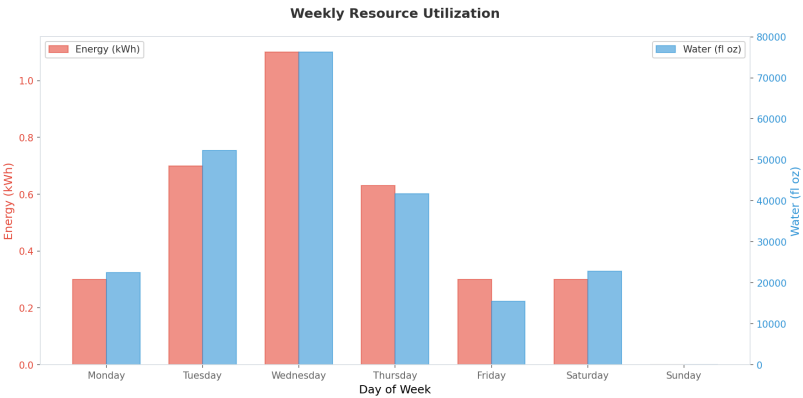
Coverage: **41.3%** vs last: N/A

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%)

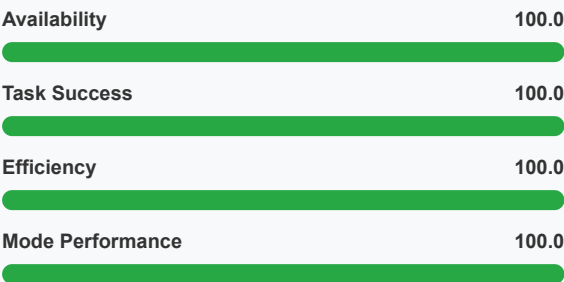
Efficiency: Task efficiency score based on performance metrics (weight: 20%)

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

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

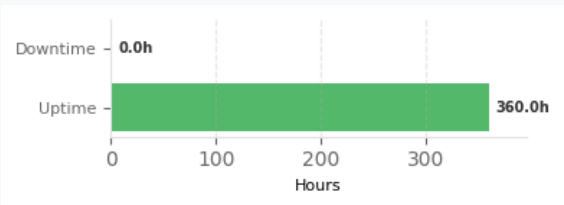
Robot GS401-6220-M6R-8000 (cps-demo-Omnire) - Health: 100.0 (Excellent) | Utilization: 6.2%

Health Score Breakdown

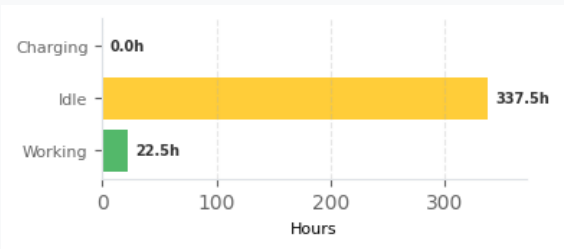


Time Distribution

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.

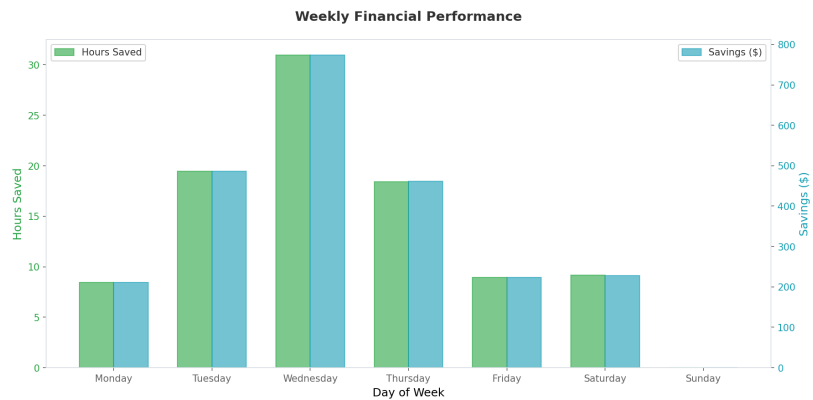
Operational Metric	Value	vs Previous Period	Notes
Cost per Sq Ft	\$0.00/sq ft	0	Operational efficiency (water + energy cost per area)
Total Operational Cost	\$0.00	0	Robot operational cost this period
ROI	45.4%	+45.4%	Return on Investment (cumulative savings ÷ total investment × 100)
Total Investment	\$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

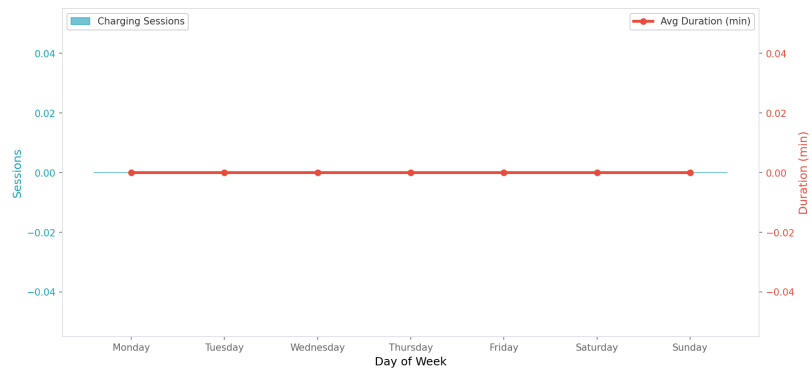
+0.0%

Avg Power Gain per Session
vs last: 0%

+0.0%

Median Power Gain per Session
vs last: 0%

Weekly Charging Performance



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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