



The Pines at Whiting
509 County Road 530 Whiting, NJ 08759

TOTAL PROJECT COST
BEFORE REBATE \$157,648.27

TOTAL EXPECTED REBATE \$37,110.00

TOTAL INVESTMENT AMOUNT \$120,538.27

SAVINGS PER YEAR \$50,464.30

**PAYBACK PERIOD ON
INVESTMENT (ROI) 2.39 YEARS**

**SAVINGS PER
LIFETIME OF
LUMINAIRES \$3,144,085.73**

LABOR (if not self installed) \$16,234.00

	24 MONTHS*	36 MONTHS*	60 MONTHS*
FINANCING	\$5,424.22	\$3,760.79	\$2,434.87

*Monthly payments are estimates only-rate may change. (labor can be financed as well)

The Pines at Whiting
 509 County Road 530 Whiting, NJ 08759
 4ft LED BC Tubes



	Existing Luminaires	Proposed Luminaires
Number of lights	262	262
Price per KWH for electricity	0.113	0.113
Number of hours of use per 24 hour period	24	24
Your current maintenance cost per light per year	0	0
Average lifetime (in hours) of replacement lamp	20,000	50,000
Watts consumed per lamp	35.2	15
Total current electricity cost per year for above number of lights	9,129	3,890
Total current maintenance cost per year for above number of lights	0	0
Total cost per year (at current values)	9,129	3,890
Average lifetime for each light (in years)	2.28	5.71
Total electricity and maintenance costs during lifetime of total light above	52,107	22,205
CO2 emissions (tons per year)	0.123	0.053
Comparison of Savings in Electricity, Maintenance, and CO2 Emissions		

Savings per year	\$5,239
Savings during total lifetime of lamp	\$29,902
Percentage saving	57%
Reduced CO2 emissions (tons per year)	0.07
Percentage annual reduction in CO2 emissions	57%

ROI

Price Per Proposed luminaire	\$35.00
Rebate Amount Per Proposed Luminaire	\$5.00
Total investment LED Lamp for above number of lamps	\$9,170
Total savings per year	\$5,239
Total savings lifetime	\$29,902
Payback period on initial investment (years)	1.75
Labor per unit	\$5.00

The Pines at Whiting
 509 County Road 530 Whiting, NJ 08759
 2x2 LED Troffer



For use in: Kitchen, hall to Kitchen and Georgetown Kitchen

	Existing Luminaires	Proposed Luminaires
Number of lights	11	11
Price per KWH for electricity	0.113	0.113
Number of hours of use per 24 hour period	16	16
Your current maintenance cost per light per year	0	0
Average lifetime (in hours) of replacement lamp	20,000	375,000
Watts consumed per lamp	70.4	32
Total current electricity cost per year for above number of lights	511	232
Total current maintenance cost per year for above number of lights	0	0
Total cost per year (at current values)	511	232
Average lifetime for each light (in years)	3.42	64.21
Total electricity and maintenance costs during lifetime of total light above	32,815	14,916
CO2 emissions (tons per year)	0.164	0.075
Comparison of Savings in Electricity, Maintenance, and CO2 Emissions		

Savings per year	\$279
Savings during total lifetime of lamp	\$17,899
Percentage saving	55%
Reduced CO2 emissions (tons per year)	0.09
Percentage annual reduction in CO2 emissions	55%

ROI

Price Per Proposed luminaire	\$159.85
Rebate Amount Per Proposed Luminaire	\$50.00
Total investment LED Lamp for above number of lamps	\$1,428
Total savings per year	\$279
Total savings lifetime	\$17,899
Payback period on initial investment (years)	5.12
Labor per unit	\$20.00

The Pines at Whiting
509 County Road 530 Whiting, NJ 08759

2x2 LED Troffer

Use In: Verity Court Hall



	Existing Luminaires	Proposed Luminaires
Number of lights	4	4
Price per KWH for electricity	0.113	0.113
Number of hours of use per 24 hour period	18	18
Your current maintenance cost per light per year	0	0
Average lifetime (in hours) of replacement lamp	20,000	375,000
Watts consumed per lamp	70.4	32
Total current electricity cost per year for above number of lights	209	95
Total current maintenance cost per year for above number of lights	0	0
Total cost per year (at current values)	209	95
Average lifetime for each light (in years)	3.04	57.08
Total electricity and maintenance costs during lifetime of total light above	11,933	5,424
CO2 emissions (tons per year)	0.185	0.084
Comparison of Savings in Electricity, Maintenance, and CO2 Emissions		

Savings per year	\$114
Savings during total lifetime of lamp	\$6,509
Percentage saving	55%
Reduced CO2 emissions (tons per year)	0.10
Percentage annual reduction in CO2 emissions	55%

ROI

Price Per Proposed luminaire	\$159.85
Rebate Amount Per Proposed Luminaire	\$50.00
Total investment LED Lamp for above number of lamps	\$519
Total savings per year	\$114
Total savings lifetime	\$6,509
Payback period on initial investment (years)	4.55
Labor per unit	\$20.00

The Pines at Whiting
 509 County Road 530 Whiting, NJ 08759
 2x4 LED Troffer Retrofit- Surface Mount
 Use In: Nursing Admin



	Existing Luminaires	Proposed Luminaires
Number of lights	39	39
Price per KWH for electricity	0.113	0.113
Number of hours of use per 24 hour period	7	7
Your current maintenance cost per light per year	0	0
Average lifetime (in hours) of replacement lamp	20,000	85,000
Watts consumed per lamp	176	50
Total current electricity cost per year for above number of lights	1,982	563
Total current maintenance cost per year for above number of lights	0	0
Total cost per year (at current values)	1,982	563
Average lifetime for each light (in years)	7.83	33.27
Total electricity and maintenance costs during lifetime of total light above	65,929	18,730
CO2 emissions (tons per year)	0.180	0.051
Comparison of Savings in Electricity, Maintenance, and CO2 Emissions		

Savings per year	\$1,419
Savings during total lifetime of lamp	\$47,199
Percentage saving	72%
Reduced CO2 emissions (tons per year)	0.13
Percentage annual reduction in CO2 emissions	72%
ROI	

Price Per Proposed luminaire	\$123.25
Rebate Amount Per Proposed Luminaire	\$0.00
Total investment LED Lamp for above number of lamps	\$5,782
Total savings per year	\$1,419
Total savings lifetime	\$47,199
Payback period on initial investment (years)	4.08
Labor per unit	\$25.00

The Pines at Whiting
 509 County Road 530 Whiting, NJ 08759
 2x4 LED Troffer-Surface Mount
 Use in: Hamilton Pl. Common



	Existing Luminaires	Proposed Luminaires
Number of lights	50	50
Price per KWH for electricity	0.113	0.113
Number of hours of use per 24 hour period	24	24
Your current maintenance cost per light per year	0	0
Average lifetime (in hours) of replacement lamp	20,000	85,000
Watts consumed per lamp	176	50
Total current electricity cost per year for above number of lights	8,711	2,475
Total current maintenance cost per year for above number of lights	0	0
Total cost per year (at current values)	8,711	2,475
Average lifetime for each light (in years)	2.28	9.70
Total electricity and maintenance costs during lifetime of total light above	84,524	24,013
CO2 emissions (tons per year)	0.617	0.175
Comparison of Savings in Electricity, Maintenance, and CO2 Emissions		

Savings per year	\$6,236
Savings during total lifetime of lamp	\$60,512
Percentage saving	72%
Reduced CO2 emissions (tons per year)	0.44
Percentage annual reduction in CO2 emissions	72%
ROI	

Price Per Proposed luminaire	\$123.25
Rebate Amount Per Proposed Luminaire	\$0.00
Total investment LED Lamp for above number of lamps	\$7,413
Total savings per year	\$6,236
Total savings lifetime	\$60,512
Payback period on initial investment (years)	1.19
Labor per unit	\$25.00

The Pines at Whiting
 509 County Road 530 Whiting, NJ 08759
 2x4 LED Troffer- Surface Mount
 Use in: Laundry Room



	Existing Luminaires	Proposed Luminaires
Number of lights	10	10
Price per KWH for electricity	0.113	0.113
Number of hours of use per 24 hour period	12	12
Your current maintenance cost per light per year	0	0
Average lifetime (in hours) of replacement lamp	20,000	85,000
Watts consumed per lamp	105.6	50
Total current electricity cost per year for above number of lights	523	247
Total current maintenance cost per year for above number of lights	0	0
Total cost per year (at current values)	523	247
Average lifetime for each light (in years)	4.57	19.41
Total electricity and maintenance costs during lifetime of total light above	10,143	4,803
CO2 emissions (tons per year)	0.185	0.088
Comparison of Savings in Electricity, Maintenance, and CO2 Emissions		

Savings per year	\$275
Savings during total lifetime of lamp	\$5,340
Percentage saving	53%
Reduced CO2 emissions (tons per year)	0.10
Percentage annual reduction in CO2 emissions	53%
ROI	

Price Per Proposed luminaire	\$123.25
Rebate Amount Per Proposed Luminaire	\$0.00
Total investment LED Lamp for above number of lamps	\$1,483
Total savings per year	\$275
Total savings lifetime	\$5,340
Payback period on initial investment (years)	5.39
Labor per unit	\$25.00

The Pines at Whiting
 509 County Road 530 Whiting, NJ 08759
 2x4 LED Troffer-Recessed Retrofit
 Use In: Main Offices



	Existing Luminaires	Proposed Luminaires
Number of lights	24	24
Price per KWH for electricity	0.113	0.113
Number of hours of use per 24 hour period	6	6
Your current maintenance cost per light per year	0	0
Average lifetime (in hours) of replacement lamp	20,000	375,000
Watts consumed per lamp	105.6	32
Total current electricity cost per year for above number of lights	627	190
Total current maintenance cost per year for above number of lights	0	0
Total cost per year (at current values)	627	190
Average lifetime for each light (in years)	9.13	171.23
Total electricity and maintenance costs during lifetime of total light above	107,395	32,544
CO2 emissions (tons per year)	0.093	0.028
Comparison of Savings in Electricity, Maintenance, and CO2 Emissions		

Savings per year	\$437
Savings during total lifetime of lamp	\$74,851
Percentage saving	70%
Reduced CO2 emissions (tons per year)	0.06
Percentage annual reduction in CO2 emissions	70%
ROI	

Price Per Proposed luminaire	\$167.53
Rebate Amount Per Proposed Luminaire	\$50.00
Total investment LED Lamp for above number of lamps	\$3,301
Total savings per year	\$437
Total savings lifetime	\$74,851
Payback period on initial investment (years)	7.55
Labor per unit	\$20.00

The Pines at Whiting
 509 County Road 530 Whiting, NJ 08759
2x4 LED Troffer- Recessed Retrofit
 Use In: Fitness Center, Baseball Hall, Main Offices



	Existing Luminaires	Proposed Luminaires
Number of lights	24	24
Price per KWH for electricity	0.113	0.113
Number of hours of use per 24 hour period	12	12
Your current maintenance cost per light per year	0	0
Average lifetime (in hours) of replacement lamp	20,000	375,000
Watts consumed per lamp	105.6	32
Total current electricity cost per year for above number of lights	1,254	380
Total current maintenance cost per year for above number of lights	0	0
Total cost per year (at current values)	1,254	380
Average lifetime for each light (in years)	4.57	85.62
Total electricity and maintenance costs during lifetime of total light above	107,395	32,544
CO2 emissions (tons per year)	0.185	0.056
Comparison of Savings in Electricity, Maintenance, and CO2 Emissions		

Savings per year	\$874
Savings during total lifetime of lamp	\$74,851
Percentage saving	70%
Reduced CO2 emissions (tons per year)	0.13
Percentage annual reduction in CO2 emissions	70%
ROI	

Price Per Proposed luminaire	\$167.53
Rebate Amount Per Proposed Luminaire	\$50.00
Total investment LED Lamp for above number of lamps	\$3,301
Total savings per year	\$874
Total savings lifetime	\$74,851
Payback period on initial investment (years)	3.78
Labor per unit	\$20.00

The Pines at Whiting
 509 County Road 530 Whiting, NJ 08759
2x4 LED Troffer Recessed Retrofit
 Use In: Town Hall, Inside Rooms



	Existing Luminaires	Proposed Luminaires
Number of lights	267	267
Price per KWH for electricity	0.113	0.113
Number of hours of use per 24 hour period	6	6
Your current maintenance cost per light per year	0	0
Average lifetime (in hours) of replacement lamp	20,000	375,000
Watts consumed per lamp	220	32
Total current electricity cost per year for above number of lights	14,536	2,114
Total current maintenance cost per year for above number of lights	0	0
Total cost per year (at current values)	14,536	2,114
Average lifetime for each light (in years)	9.13	171.23
Total electricity and maintenance costs during lifetime of total light above	2,489,108	362,052
CO2 emissions (tons per year)	0.193	0.028
Comparison of Savings in Electricity, Maintenance, and CO2 Emissions		

Savings per year	\$12,422
Savings during total lifetime of lamp	\$2,127,056
Percentage saving	85%
Reduced CO2 emissions (tons per year)	0.16
Percentage annual reduction in CO2 emissions	85%
ROI	

Price Per Proposed luminaire	\$167.53
Rebate Amount Per Proposed Luminaire	\$50.00
Total investment LED Lamp for above number of lamps	\$36,721
Total savings per year	\$12,422
Total savings lifetime	\$2,127,056
Payback period on initial investment (years)	2.96
Labor per unit	\$20.00

The Pines at Whiting
 509 County Road 530 Whiting, NJ 08759
2x4 LED Troffer- Recessed Retrofit
 Use In: Georgetown Dining Room, Dining Room 2



	Existing Luminaires	Proposed Luminaires
Number of lights	22	22
Price per KWH for electricity	0.113	0.113
Number of hours of use per 24 hour period	16	16
Your current maintenance cost per light per year	0	0
Average lifetime (in hours) of replacement lamp	20,000	375,000
Watts consumed per lamp	220	32
Total current electricity cost per year for above number of lights	3,194	465
Total current maintenance cost per year for above number of lights	0	0
Total cost per year (at current values)	3,194	465
Average lifetime for each light (in years)	3.42	64.21
Total electricity and maintenance costs during lifetime of total light above	205,095	29,832
CO2 emissions (tons per year)	0.514	0.075
Comparison of Savings in Electricity, Maintenance, and CO2 Emissions		

Savings per year	\$2,729
Savings during total lifetime of lamp	\$175,263
Percentage saving	85%
Reduced CO2 emissions (tons per year)	0.44
Percentage annual reduction in CO2 emissions	85%
ROI	

Price Per Proposed luminaire	\$167.53
Rebate Amount Per Proposed Luminaire	\$50.00
Total investment LED Lamp for above number of lamps	\$3,026
Total savings per year	\$2,729
Total savings lifetime	\$175,263
Payback period on initial investment (years)	1.11
Labor per unit	\$20.00

The Pines at Whiting
 509 County Road 530 Whiting, NJ 08759
 2x4 LED Troffer-Recessed Retrofit
 Use In: Kitchen, Kitchen Hallway



	Existing Luminaires	Proposed Luminaires
Number of lights	50	50
Price per KWH for electricity	0.113	0.113
Number of hours of use per 24 hour period	16	16
Your current maintenance cost per light per year	0	0
Average lifetime (in hours) of replacement lamp	20,000	375,000
Watts consumed per lamp	105.6	32
Total current electricity cost per year for above number of lights	3,484	1,056
Total current maintenance cost per year for above number of lights	0	0
Total cost per year (at current values)	3,484	1,056
Average lifetime for each light (in years)	3.42	64.21
Total electricity and maintenance costs during lifetime of total light above	223,740	67,800
CO2 emissions (tons per year)	0.247	0.075
Comparison of Savings in Electricity, Maintenance, and CO2 Emissions		

Savings per year	\$2,429
Savings during total lifetime of lamp	\$155,940
Percentage saving	70%
Reduced CO2 emissions (tons per year)	0.17
Percentage annual reduction in CO2 emissions	70%
ROI	

Price Per Proposed luminaire	\$167.53
Rebate Amount Per Proposed Luminaire	\$50.00
Total investment LED Lamp for above number of lamps	\$6,877
Total savings per year	\$2,429
Total savings lifetime	\$155,940
Payback period on initial investment (years)	2.83
Labor per unit	\$20.00

The Pines at Whiting
 509 County Road 530 Whiting, NJ 08759
2x4 LED Troffer- Recessed Retrofit
 Use In: Verity Court Hall



	Existing Luminaires	Proposed Luminaires
Number of lights	26	26
Price per KWH for electricity	0.113	0.113
Number of hours of use per 24 hour period	18	18
Your current maintenance cost per light per year	0	0
Average lifetime (in hours) of replacement lamp	20,000	375,000
Watts consumed per lamp	105.6	32
Total current electricity cost per year for above number of lights	2,038	618
Total current maintenance cost per year for above number of lights	0	0
Total cost per year (at current values)	2,038	618
Average lifetime for each light (in years)	3.04	57.08
Total electricity and maintenance costs during lifetime of total light above	116,345	35,256
CO2 emissions (tons per year)	0.278	0.084
Comparison of Savings in Electricity, Maintenance, and CO2 Emissions		

Savings per year	\$1,421
Savings during total lifetime of lamp	\$81,089
Percentage saving	70%
Reduced CO2 emissions (tons per year)	0.19
Percentage annual reduction in CO2 emissions	70%

ROI

Price Per Proposed luminaire	\$167.53
Rebate Amount Per Proposed Luminaire	\$50.00
Total investment LED Lamp for above number of lamps	\$3,576
Total savings per year	\$1,421
Total savings lifetime	\$81,089
Payback period on initial investment (years)	2.52
Labor per unit	\$20.00

The Pines at Whiting
 509 County Road 530 Whiting, NJ 08759
2x4 LED Troffer- Recessed Retrofit
 Use In: Maintenance Basement



	Existing Luminaires	Proposed Luminaires
Number of lights	6	6
Price per KWH for electricity	0.113	0.113
Number of hours of use per 24 hour period	24	24
Your current maintenance cost per light per year	0	0
Average lifetime (in hours) of replacement lamp	20,000	375,000
Watts consumed per lamp	105.6	32
Total current electricity cost per year for above number of lights	627	190
Total current maintenance cost per year for above number of lights	0	0
Total cost per year (at current values)	627	190
Average lifetime for each light (in years)	2.28	42.81
Total electricity and maintenance costs during lifetime of total light above	26,849	8,136
CO2 emissions (tons per year)	0.370	0.112
Comparison of Savings in Electricity, Maintenance, and CO2 Emissions		

Savings per year	\$437
Savings during total lifetime of lamp	\$18,713
Percentage saving	70%
Reduced CO2 emissions (tons per year)	0.26
Percentage annual reduction in CO2 emissions	70%
ROI	

Price Per Proposed luminaire	\$167.53
Rebate Amount Per Proposed Luminaire	\$50.00
Total investment LED Lamp for above number of lamps	\$825
Total savings per year	\$437
Total savings lifetime	\$18,713
Payback period on initial investment (years)	1.89
Labor per unit	\$20.00

The Pines at Whiting
 509 County Road 530 Whiting, NJ 08759
2x4 LED Troffer- Recessed Retrofit
 Use In: Nurses Station, Second Floor Elevator



	Existing Luminaires	Proposed Luminaires
Number of lights	6	6
Price per KWH for electricity	0.113	0.113
Number of hours of use per 24 hour period	24	24
Your current maintenance cost per light per year	0	0
Average lifetime (in hours) of replacement lamp	20,000	375,000
Watts consumed per lamp	176	32
Total current electricity cost per year for above number of lights	1,045	190
Total current maintenance cost per year for above number of lights	0	0
Total cost per year (at current values)	1,045	190
Average lifetime for each light (in years)	2.28	42.81
Total electricity and maintenance costs during lifetime of total light above	44,748	8,136
CO2 emissions (tons per year)	0.617	0.112
Comparison of Savings in Electricity, Maintenance, and CO2 Emissions		

Savings per year	\$855
Savings during total lifetime of lamp	\$36,612
Percentage saving	82%
Reduced CO2 emissions (tons per year)	0.50
Percentage annual reduction in CO2 emissions	82%
ROI	

Price Per Proposed luminaire	\$167.53
Rebate Amount Per Proposed Luminaire	\$0.00
Total investment LED Lamp for above number of lamps	\$1,125
Total savings per year	\$855
Total savings lifetime	\$36,612
Payback period on initial investment (years)	1.32
Labor per unit	\$20.00

The Pines at Whiting
 509 County Road 530 Whiting, NJ 08759
4ft LED Vapor Tight
 Use In: Kitchen Warehouse



	Existing Luminaires	Proposed Luminaires
Number of lights	1	1
Price per KWH for electricity	0.113	0.113
Number of hours of use per 24 hour period	16	16
Your current maintenance cost per light per year	0	0
Average lifetime (in hours) of replacement lamp	20,000	375,000
Watts consumed per lamp	110	47
Total current electricity cost per year for above number of lights	73	31
Total current maintenance cost per year for above number of lights	0	0
Total cost per year (at current values)	73	31
Average lifetime for each light (in years)	3.42	64.21
Total electricity and maintenance costs during lifetime of total light above	4,661	1,992
CO2 emissions (tons per year)	0.257	0.110
Comparison of Savings in Electricity, Maintenance, and CO2 Emissions		

Savings per year	\$42
Savings during total lifetime of lamp	\$2,670
Percentage saving	57%
Reduced CO2 emissions (tons per year)	0.15
Percentage annual reduction in CO2 emissions	57%
ROI	

Price Per Proposed luminaire	\$198.27
Rebate Amount Per Proposed Luminaire	\$0.00
Total investment LED Lamp for above number of lamps	\$248
Total savings per year	\$42
Total savings lifetime	\$2,670
Payback period on initial investment (years)	5.97
Labor per unit	\$50.00

The Pines at Whiting
 509 County Road 530 Whiting, NJ 08759
 4ft LED Vapor Tight
 Use In: Stairwells



	Existing Luminaires	Proposed Luminaires
Number of lights	30	30
Price per KWH for electricity	0.113	0.113
Number of hours of use per 24 hour period	24	24
Your current maintenance cost per light per year	0	0
Average lifetime (in hours) of replacement lamp	20,000	375,000
Watts consumed per lamp	110	31
Total current electricity cost per year for above number of lights	3,267	921
Total current maintenance cost per year for above number of lights	0	0
Total cost per year (at current values)	3,267	921
Average lifetime for each light (in years)	2.28	42.81
Total electricity and maintenance costs during lifetime of total light above	139,838	39,409
CO2 emissions (tons per year)	0.385	0.109
Comparison of Savings in Electricity, Maintenance, and CO2 Emissions		

Savings per year	\$2,346
Savings during total lifetime of lamp	\$100,429
Percentage saving	72%
Reduced CO2 emissions (tons per year)	0.28
Percentage annual reduction in CO2 emissions	72%
ROI	

Price Per Proposed luminaire	\$268.25
Rebate Amount Per Proposed Luminaire	\$0.00
Total investment LED Lamp for above number of lamps	\$9,548
Total savings per year	\$2,346
Total savings lifetime	\$100,429
Payback period on initial investment (years)	4.07
Labor per unit	\$50.00

The Pines at Whiting
509 County Road 530 Whiting, NJ 08759

LED Area Lights

Exterior



	Existing Luminaires	Proposed Luminaires
Number of lights	52	52
Price per KWH for electricity	0.113	0.113
Number of hours of use per 24 hour period	12	12
Your current maintenance cost per light per year	0	0
Average lifetime (in hours) of replacement lamp	40,000	100,000
Watts consumed per lamp	275	100
Total current electricity cost per year for above number of lights	7,078	2,574
Total current maintenance cost per year for above number of lights	0	0
Total cost per year (at current values)	7,078	2,574
Average lifetime for each light (in years)	9.13	22.83
Total electricity and maintenance costs during lifetime of total light above	161,590	58,760
CO2 emissions (tons per year)	0.482	0.175
Comparison of Savings in Electricity, Maintenance, and CO2 Emissions		

Savings per year	\$4,504
Savings during total lifetime of lamp	\$102,830
Percentage saving	64%
Reduced CO2 emissions (tons per year)	0.31
Percentage annual reduction in CO2 emissions	64%
ROI	

Price Per Proposed luminaire	\$456.87
Rebate Amount Per Proposed Luminaire	\$220.00
Total investment LED Lamp for above number of lamps	\$19,337
Total savings per year	\$4,504
Total savings lifetime	\$102,830
Payback period on initial investment (years)	4.29
Labor per unit	\$135.00

The Pines at Whiting
509 County Road 530 Whiting, NJ 08759

LED A-Lamps

Use in: Sconces in 1st and 2nd floors



	Existing Luminaires	Proposed Luminaires
Number of lights	213	213
Price per KWH for electricity	0.113	0.113
Number of hours of use per 24 hour period	24	24
Your current maintenance cost per light per year	0	0
Average lifetime (in hours) of replacement lamp	5,000	25,000
Watts consumed per lamp	32	9.5
Total current electricity cost per year for above number of lights	6,747	2,003
Total current maintenance cost per year for above number of lights	0	0
Total cost per year (at current values)	6,747	2,003
Average lifetime for each light (in years)	0.57	2.85
Total electricity and maintenance costs during lifetime of total light above	19,255	5,716
CO2 emissions (tons per year)	0.112	0.033
Comparison of Savings in Electricity, Maintenance, and CO2 Emissions		

Savings per year	\$4,744
Savings during total lifetime of lamp	\$13,539
Percentage saving	70%
Reduced CO2 emissions (tons per year)	0.08
Percentage annual reduction in CO2 emissions	70%
ROI	

Price Per Proposed luminaire	\$15.00
Rebate Amount Per Proposed Luminaire	\$10.00
Total investment LED Lamp for above number of lamps	\$1,278
Total savings per year	\$4,744
Total savings lifetime	\$13,539
Payback period on initial investment (years)	0.27
Labor per unit	\$1.00

The Pines at Whiting
 509 County Road 530 Whiting, NJ 08759
 LED PL Lamp



	Existing Luminaires	Proposed Luminaires
Number of lights	206	206
Price per KWH for electricity	0.113	0.113
Number of hours of use per 24 hour period	24	24
Your current maintenance cost per light per year	0	0
Average lifetime (in hours) of replacement lamp	15,000	25,000
Watts consumed per lamp	18	7
Total current electricity cost per year for above number of lights	3,670	1,427
Total current maintenance cost per year for above number of lights	0	0
Total cost per year (at current values)	3,670	1,427
Average lifetime for each light (in years)	1.71	2.85
Total electricity and maintenance costs during lifetime of total light above	10,475	4,074
CO2 emissions (tons per year)	0.063	0.025
Comparison of Savings in Electricity, Maintenance, and CO2 Emissions		

Savings per year	\$2,243
Savings during total lifetime of lamp	\$6,401
Percentage saving	61%
Reduced CO2 emissions (tons per year)	0.04
Percentage annual reduction in CO2 emissions	61%

ROI

Price Per Proposed luminaire	\$18.85
Rebate Amount Per Proposed Luminaire	\$0.00
Total investment LED Lamp for above number of lamps	\$4,089
Total savings per year	\$2,243
Total savings lifetime	\$6,401
Payback period on initial investment (years)	1.82
Labor per unit	\$1.00

The Pines at Whiting
 509 County Road 530 Whiting, NJ 08759
 LED Can Lights 8inch



	Existing Luminaires	Proposed Luminaires
Number of lights	106	106
Price per KWH for electricity	0.113	0.113
Number of hours of use per 24 hour period	24	24
Your current maintenance cost per light per year	0	0
Average lifetime (in hours) of replacement lamp	15,000	40,000
Watts consumed per lamp	36	24
Total current electricity cost per year for above number of lights	3,777	2,518
Total current maintenance cost per year for above number of lights	0	0
Total cost per year (at current values)	3,777	2,518
Average lifetime for each light (in years)	1.71	4.57
Total electricity and maintenance costs during lifetime of total light above	17,248	11,499
CO2 emissions (tons per year)	0.126	0.084
Comparison of Savings in Electricity, Maintenance, and CO2 Emissions		

Savings per year	\$1,259
Savings during total lifetime of lamp	\$5,749
Percentage saving	33%
Reduced CO2 emissions (tons per year)	0.04
Percentage annual reduction in CO2 emissions	33%

ROI

Price Per Proposed luminaire	\$61.00
Rebate Amount Per Proposed Luminaire	\$5.00
Total investment LED Lamp for above number of lamps	\$5,936
Total savings per year	\$1,259
Total savings lifetime	\$5,749
Payback period on initial investment (years)	4.71
Labor per unit	\$0.00

The Pines at Whiting
 509 County Road 530 Whiting, NJ 08759
 LED Can Retrofit 6inch



	Existing Luminaires	Proposed Luminaires
Number of lights	27	27
Price per KWH for electricity	0.113	0.113
Number of hours of use per 24 hour period	24	24
Your current maintenance cost per light per year	0	0
Average lifetime (in hours) of replacement lamp	15,000	40,000
Watts consumed per lamp	18	12
Total current electricity cost per year for above number of lights	481	321
Total current maintenance cost per year for above number of lights	0	0
Total cost per year (at current values)	481	321
Average lifetime for each light (in years)	1.71	4.57
Total electricity and maintenance costs during lifetime of total light above	2,197	1,464
CO2 emissions (tons per year)	0.063	0.042
Comparison of Savings in Electricity, Maintenance, and CO2 Emissions		

Savings per year	\$160
Savings during total lifetime of lamp	\$732
Percentage saving	33%
Reduced CO2 emissions (tons per year)	0.02
Percentage annual reduction in CO2 emissions	33%
ROI	

Price Per Proposed luminaire	\$33.21
Rebate Amount Per Proposed Luminaire	\$0.00
Total investment LED Lamp for above number of lamps	\$897
Total savings per year	\$160
Total savings lifetime	\$732
Payback period on initial investment (years)	5.59
Labor per unit	\$0.00