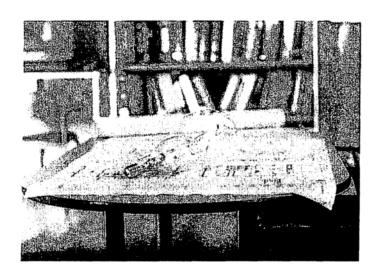


lighting > electrical > energy > technology > signs

FACILITYS OLUTIONS

Preliminary Audit on Existing Lighting for Williamson County



Legend

EXIN = Exterior & Interior
XT = Exterior Only

GYM = Lighting Retrofit in Gym Only

All Figures Estimates and Measured Per Annum

Code	# Address	Name	Quote	Energy Saved	Maint Saved	KW Reduced
EXIN	1011 107 S Holly St	Lott Building	\$10,598		\$734	5
EXIN	1012 300 S Main St	Health Dept	\$23,923		\$1,657	20
EXIN	1013 303 S Main St	Environmental	\$2,949		\$204	3
XT	1046 305 W 4th St	Parking Garage	\$63,371	\$31,860	\$4,391	39
EXIN	1058 308 W 7th St	Skinner	\$7,273	\$3,305	\$504	10
EXIN	1024 311 S Main St	Substance Abuse	\$1,079	\$404	\$75	1
EXIN	1030 508 Holly	Building 2	\$3,043	\$467	\$211	1
EXIN	1007 516 Pine St	DPS	\$5,996	\$1,888	\$415	
EXIN	1017 517 Pine St	ABC/Game Warden	\$927	\$317	\$64	1
EXIN	1051 904 S Main St	Tax Office	\$13,796	\$4,259	\$956	12
GYM	1045 1821 SE Innerloop	Juvenile Justice	\$15,000	\$1,369	\$4,000	3
XT		Exterior Poles	\$35,525	\$4,403	\$2,461	10
EXIN	1001 716 Austin Ave	Museum	\$2,803	\$957	\$194	3
EXIN	1019 305 MLK	EMS HQ	\$1,886	\$374	\$131	1
EXIN	1020 303 MLK	EMS Admin	\$2,328	\$326	\$161	1
XT	1009 405 MLK	Criminal Justice	\$11,156	\$1,137	\$773	2
EXIN	1008 508 S Rock St	Jail	\$63,398	\$25,978	\$4,755	59
EXIN	1043 301 SE Innerloop	Innerloop Annex	\$21,003	\$3,461	\$1,455	9
EXIN	1049 425 E Morrow	Showbarn	\$27,994	\$2,923	\$1,940	11
EXIN	1005 211 Commerce Cov	Annex A	\$17,892	\$5,346	\$1,240	15
EXIN	1006 211 Commerce Cov	Annex B	\$17,434	\$4,772	\$1,208	13
EXIN	1026 3151 SE Innerloop	Road & Bridge	\$22,435	\$5,081	\$1,954	14
XT	1032 350 Discovery Blvd		\$12,785	\$1,486	\$886	3
EXIN	1044 2501 Mallard Ln	Taylor Constable	\$1,851	\$835	\$128	2
XT	1003 115 W 6th St	Taylor Health	\$3,930	\$295	\$272	1
XT	1048 211 W 6th St	Taylor JP	\$5,747	\$442	\$398	1
EXIN	1015 1427 S Main St	Taylor EMS	\$910	\$437	\$63	1
XT	1033 412 Vance St	Taylor Annex	\$3,849	\$334	\$268	1
XT	1047 210 Carlos Parker	East Side Sp Event	\$31,045	\$3,437	\$5,123	13
EXIN	1042 601 N Alligator	CTTC	\$39,316	\$7,433	\$2,724	20
		Total	\$471,242	\$123,493	\$39,345	255
				Simple Payback	•	2.89

Additional Energy Saving Opportunities

Re-lamp existing 32 Watt T8 Lamps with 28 Watt T8 Lamps (100 fixture sample)

 Quote 4-lamp
 \$3,609
 Saves
 \$798
 16KW

 Qoute 3-lamp
 \$3,232
 Saves
 \$772
 16KW

 Quote 2-lamp
 \$2,855
 Savse
 \$574
 11KW

Williamson County (Garage)



Executive Summary

Chris Haskell

Sales Representative

kW Reduced: Avg kWh Rate: \$0.09750 kWh Reduced: 326,770 **Annual Utility Savings:** \$31,860 Annual Maintenance Savings: \$4,391 Inflation Rate: 2.0%

Discount Rate: (Cost of Capital) 8.0% FSG's Invoice Amount: \$63,370.86 Cost per Day to Wait: \$165

EPAct Deduction:* Estimated Rebate: **Net Installed Cost:** Not Included (Extended to 12/31/13) \$0 (Utility must verify)

\$63,371 **Total Fixtures:** 277 Est. Days to Complete: 17

Simple Payback: 1.75 Yrs Return on Investment: 57.2%

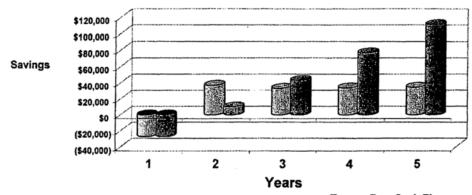
(Excluding EPAct Deductions)

Annual Savings: Raw Cash Flow: **Cumulative Cash Flow:**

Year 2 Year 3 Year 4 Year 5 Year 1 \$36,251 \$36,976 \$33,135 \$33,772 \$34,409 (\$27,120) \$36,976 \$33,135 \$34,409 \$33,772 (\$27,120)\$9,856 \$42,990 \$76,762 \$111,171

If Maintenance Savings was included, it will affect the first two years (as additional savings). If Inflation was entered, it will impact years 2-5

CASH FLOW



- Raw Cash Flow:
- ů, **Cumulative Cash Flow:**

^{&#}x27;See your CPA for confirmation

FSG Lighting Economic Analysis

Joe Latteo Williamson County (Jail) FSG Representative: Chris Haskell PRESENT SYSTEM Watts/Sy Ft Not Included Total kW: 59.75 Total kWh: 497,267

PROPOSED SYSTEMS

Saved kWh: 126,770

Watto/Sq Ft: Not Included Total kW: 20.66 344 BM/A-RB Total kWh: 179,497 Total Saved k 39,10

Estimated Maintenance Savings: Indirect HVAC Savings: TOTAL ANNUAL SAVINGS: Sales Tax Included: Total Contract (OUR INVOICE): Lase Estimated Rebate:

NET CUSTOMER COST:

Ofrect Energy Savings:

\$31,660,11 B 2 3 \$4,390.59 \$36,250.70 \$4,829.65 \$63,370.86

\$0.00 4- Professional and the processional for the first time to graphical control of contrasts. \$63,370.86

50

\$0.00

clum on investment: 57.2%

vg Loaded kWh Rate:

imple Payback (Yrs):

\$0,0975 1.76

vg Impact of Lighting on HVAC: 12.5% 144 filtra-Char

DEEMED HRS: Office 3,789 Retail 4,280 Editoribilities K-12 2,169 Standard /4Hr Grocery 8,960 in Papent Care 3,750 Parking Garage 6,900 Offers

PROPOSED LIGHTING Existing Lighting Calebra Glidg D.C. Flavor. Spann Corp. (Corp.) Eristing Calebring Calebri Reduce Watts / Hrs 'A for Oce Ben Energy Savings / Fisting per Line per Line filtern He 773 8,760 215 49.2 1 FARRED 431,239 \$42,052 No 120 11% 3,760 71 16 259 142,429 \$13,567 \$26,155 FAIL 28 Approximation (0,750 144 4.Z 13,667 2 F4284LTEV 35,952 33 1175 5,7ac 65 1555 NE 513 \$1,610 \$1,957 Ministra 1,504 215 0.6 \$200 7sia 3 FEMOUS 3% 4,500 101 0.85 \$147 \$1.36 D-William C 12 arma i garag 4,500 45/5 5.5 \$2,411 24,732 Ha 4 MH3209 0-4,520 35.7 2 147 \$1.472 5,532 3940 20 E110/7 2,760 24 0.2 1,762 \$171 6 ELYPPI 10 55. 3,760 0.95 526 \$0.1 \$120 6 39 10% 0 \$0 24 9 8 9 6% 3 0 . . 0 Š., 10 -30 9 11 0 20 5_ 12 \$6 Đ. 13 37) . 0 1) 50 d 14 60. 6 D. 0 16 $\alpha\gamma_{\alpha}$ 0 52 16 0 6% a ø D 17 6% ٥ . 0 - 0 0 18 8% n 0 \$0 19 o'r. 0 0 20 0% E) 9 50 \$0 21 9% U 0 22 9% G 56 20 ក្រុងខេត្តជាគម្រាល់ p 23 25 4 56 0 24 37. - 61 26 26 9% 27 6% \$0 D 28 77. 15 20 0 Q 0 30 3 0% 31 ā o 0 32 9% 50 а 0 33 ar.

Prepared For:

Joe Latteo

Williamson County (Jail)

305 West 4th St

Your KWH Saved:

126,175

According to the EPA, for each KWH saved, approximately 1.8 pounds of Carbon Dioxide (COz). 006 pounds of Sulfur Dioxide (SOz). .003 pounds of Nitrogen Oxides (NOx), and .043 milligrams of Mercury (Hg) are eliminated from future power plant emissions into our atmosphere annually.

CO2 is a "Greenhouse Gas" while SO2 contributes to acid rain formation and NOx contributes to the troposheric ozone formation (Smog) and estuarial damage.

The Amusi Pollution Reduction Impact of Your Project

Carbon Cloxide (2004) Mhroger Calides (2008) Sulfur Dioxide (2004) Mercury (2004) W

For every 10,000 Kilowatt Hours saved the EPA has estimated the savings to be equivalent to planting 2.9 acres of trees annually or equivalent to removing 1.4 cars from our roads annually.

Your Project's Local Impact

Acres of Trees Planted

95

Cars Removed: 46

The EPA does regulate the disposal of lighting products if they contain hazardous waste. Fluorescent lamps, HID lamps, and some incandescent lamps may be considered hazardous waste. PCB containing ballast are already regulated. If you are already classified as a hazardous waste generator you must follow the disposal and or recycling regulations from the EPA. If you produce more than 100kg of hazardous waste per month, you are considered a hazardous generator.

All Generators of lamp waste products must perform a TCLP (Toxicity Characteristic Leaching Procedure) to identify potential hazards. The lamps cannot exceed 0.2 milligram per liter in order to pass. Your local landfill may or may not accept the lamps that pass. Ballast containing PCB's MUST also be disposed of through incineration or recycling.

FSG recommends recycling the lamps and incinerating the ballast to provide you with the safest disposal method and sound environmental practices. We can manage the entire project and minimize your potential exposure while archieving the highest savings.





Williamson County (Jail)



Chris Haskell

Executive Summary

Sales Representative

Cumulative Cash Flow:

		EPAct Deduction
kW Reduced:	59	Estimated Reba
Avg kWh Rate:	\$0.09750	Net Installed Co
kWh Reduced:	239,138	Total Fixtures:
Annual Utility Savings:	\$25,978	Est. Days to Co
Annual Maintenance Savings:	\$4,755	Simple Payback
Inflation Rate:	2.0%	Return on Inves
Discount Rate: (Cost of Capital)	8.0%	
FSG's Invoice Amount:	\$68,628.56	
Cost per Day to Wait:	\$140	

Deduction:* Not included (Extended to 12/31/13) ed Rebate: \$0 (Utility must verify)

Installed Cost: \$68,629

Est. Days to Complete: 38
Simple Payback: 2.23 Yrs

Return on Investment: 44.8%

(Excluding EPAct Deductions)

Annual Savings:
Raw Cash Flow:

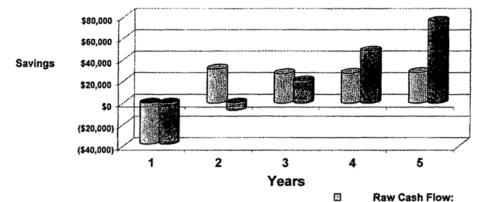
Cumulative Cash Flow:

Year 1	Year 2	Year 3	Year 4	Year 5
\$30,733	\$31,348	\$27,017	\$27,537	\$28,056
(\$37,896)	\$31,348	\$27,017	\$27,537	\$28,056
(\$37,896)	(\$6,548)	\$20,469	\$48,006	\$76,063

If Meintenance Savings was included, it will affect the first two years (as additional savings)

See your CPA for confirmation If Inflation was entered, it will impact years 2-5.

CASH FLOW



Authorization To Proceed:

I hereby agree with the proposal presented to me by FSG and hereby authorize them to proceed with the installation. If there is a utility rebate, I also authorize FSG to file the necessary paperwork to secure such rebate on my behalf.

Name: Joe Latteo

	Facilities Director	
Signature	Title	Date

FSG Lighting Economic Analysis

Joe Latteo Williamson County (Jali) FSG Representative; Chris Haskell

PRESENT SYSTEM Watte/Sq Ft Not Included Total kW: 126.57 Total kWh: 520,401

PROPOSED SYSTEMS Watta/Sq Ft: Not included
Total kW: 68.02 344 81//2 and

Direct Energy Savings: Estimated Maintenance Savings: · Indirect HVAC Savings: TOTAL ANNUAL SAVINGS:

\$23,315.96 \$4,754.87 \$2,682,16 \$30,732.99

Total Saved & 68,54 Saved kWh: 239,138

\$5,230.35 Sales Tax Included: Total Contract (OUR INVOICE): \$68,628.56 Leas Estimated Rebate:

NET CUSTOMER COST:

\$0.00 + he had on the be good been \$68,628.56

Return on Investment:

Avg Loaded With Rate:

Simple Payback (Yrs):

\$0.0975

44.8%

Avg Impact of Lighting on HVAC: 12.5% Sale of Use of Issue

DEEMED HRS: Office 3,760 Relat 4,250 Educational K-12 2,150 Standard 24Hr Grocery 6,900 In Potent Care 3,760 Perking Garage 8,900 Qffers 2.23

PROPOSED LIGHTING

to Friday NO.	entrant College and the electric						Evons E	CISTI			C. Santa	PR	OPOSED	LIGHT	ING								
	Existing Lighting System	Existing Fixture Qty	Bidg ID or Floor #	Fixture Location	First Descript	Existing Annual Dum Hrs	Existing Watts / Pixture	Existing NVPor 'Line	Existing kVAn Per Line	Accusto	AC Space?	Rem	Proposed Lighting System	New Kit or Fixture Type	Prop Fixture City	Raduce Hrs % for Occ Sen.	Pixt per Bensor	Prop. Annual Burn Hrs	Prop. Watte / Plature	Prop. kW per Line	Prop. kWh per Line	Annual Energy Cost	Proposed Energy Savings
12	F42EE	481		Compalying		4,990	72	34.0	134,639	\$13,505	You	1	F42IRLU-R		481	0%	٥	4,000	44	21.164	84,656	\$8,254	65,263
22	F43EE	321		George Layling		4,000	115	36.9	147,540	\$14,297	You	2	P42IRLU		321	0%		4,000	48	15.408	61,632	36 009	\$8,388
175	FHEE	233		Germal group		4,600	144	33.6	134,200	\$13,008	Yes	3	F4ZIRLU-V		233	CY.	0	4,000	66	15 145	FØ 580	\$5,907	\$7,179
	E/10/2	40				8,700	20	0.5	7,040	3463	Yes	4	ELED2/1		40	0%	0	4,760	6	0.24	2.102	\$205	\$478
65	HP5400H			Corres		4,500	465	3.7	14,740	\$1,432	No	5	NH3201		۵	0%	0	4,500	357	2 856	12,852	51 753	\$379
6.5	MH400/1	32		Plat have		4,500	458	14.7	15,002	14,430	No	8	MH320/1		32	0%	٥	4,500	357	11 424	51,408	\$5,012	\$1,418
12	MH400/1	5		Polesiums		4,500	450	2.3	10,304	\$1,005	No	7	MH320/1		5	0%	۰	4,500	357	1.785	R,Q33	\$783	1222
28	7	o				٥	0				7	8	7		0	0%			0	. 0		30	\$0
1 2 2 3 3 4 3 3 10 3 10 3 10 3 10 3 10 3 10 3	7	0				0	0				,	8	7			0%		0	0	0	0	10	\$0
10	7	۰				0	0				7	10	2		0	0%	•	0	b	. 0	0	\$0	50
11 12 12 13 14 16 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19	7	0					0				7	11	?		0	0%	0		٥	6		ca.	10
312	?	0				•	0				7	12	7			0%	0	0	0	0		\$0	10
(13)	7	0					0				7	13	7			0%			0	6		\$0	101
TOTAL STREET	?		ļ		 		0				7	14	2		0	OV.		0		0		\$0	10
16	2				ļ		0			ļ	7	15	?		0	0%		-	0_	0		\$0	10
¥18 m	?				-		0				7	16	7		0	0%			0	0	0		30
強張	7				-	0	0				7	17	7			0%						30	\$0
- 18	?		<u> </u>	-		0.	0			ļ	7	18	7			0%	-	0	0			50	\$0
19	7	0	-		-	0	0				7	19	7	ļ		0%	0		9		0	\$0	\$0
20	7	-		-			0_				7	20	7			_0%						\$0	\$0
3715	7		ļ	-			0			ļ	7	21	?			0%	0		0	0		\$0	\$0
121	7				-	0	0				7	22	7			0%	0		0			\$0	\$0
23	7	-	-	ļ			0	-		-	2	23	?	ļ		0%			0	0		\$0	\$0
24	7					-					,	24	?	1	0	0%			-	0		10	50
		0			-	-	-			ļ	7	25	?			0%	. 0	ļ	-	0		30	\$0
26	7		 	-	-	-	0				1	26	7		•	0%			-	0		30	50
27	7		-				0				7	27	7	 	-	0%		-		9		\$0	1
285	?	•	-		-	-	0		ļ	 	1	28	7	-		0%				0	-	\$0	
28 29 30	7	<u> • </u>		+	-	-	0				1	29	?		<u> </u>	0%			- ·	0		\$40	-
7. 30 ·	7				-				-		7	30	7		•	0%	-	-	0	0	-	\$0	1
31	?	-		+	 	-			-			31	3		-	0%		•		-	ļ	\$0	1
2.32	?	-			+			-	 			32	7			0%	-	-	9			80	
33 34	?		+	 	+	10	0		ļ		,	33			-	0%	•					30	-
34	27	0			<u> </u>		0	1	L		1,	34	.12	1		0%	1 0	10			e	30	10

Prepared For:

Joe Latteo

Williamson County (Jail)

508 S Rock St

Your KWH Saved:

229,138



According to the EPA, for each KWH saved, approximately 1.8 pounds of Carbon Dioxide (CO₂), .006 pounds of Sulfur Dioxide (SO₂), .003 pounds of Nitrogen Oxides (NOx), and .043 milligrams of Mercury (Hg) are eliminated from future power plant emissions into our atmosphere annually.

CO2 is a "Greenhouse Gas" while SO2 contributes to acid rain formation and NOx contributes to the troposheric ozone formation (Smog) and estuarial damage.

The Annual Pollution Reduction Impact of Your Project

Carbon Dioxide att 430,449

Nitrogen Oxides

717

Sulfur Dioxide 550 1,435

Mercury grams

10

For every 10,000 Kilowatt Hours saved the EPA has estimated the savings to be equivalent to planting 2.9 acres of trees annually or equivalent to removing 1.4 cars from our roads annually.

Your Project's Local Impact

Acres of Trees Planted:

69

Cars Removed: 33

The EPA does regulate the disposal of lighting products if they contain hazardous waste. Fluorescent lamps, HID lamps, and some incandescent lamps may be considered hazardous waste. PCB containing ballast are already regulated. If you are already classified as a hazardous waste generator you must follow the disposal and or recycling regulations from the EPA. If you produce more than 100kg of hazardous waste per month, you are considered a hazardous generator.

All Generators of lamp waste products must perform a TCLP (Toxicity Characteristic Leaching Procedure) to identify potential hazards. The lamps cannot exceed 0.2 milligram per liter in order to pass. Your local landfill may or may not accept the lamps that pass. Ballast containing PCB's MUST also be disposed of through incineration or recycling

FSG recommends recycling the lamps and incinerating the ballast to provide you with the safest disposal method and sound environmental practices. We can manage the entire project and minimize your potential exposure while archieving the highest savings.



Williamson County (CTTC)



28.6%

Executive Summary

Chris Haskell

Sales Representative

kW Reduced:	20
Avg kWh Rate:	\$0.09750
kWh Reduced:	78,412
Annual Utility Savings:	\$8,533
Annual Maintenance Savings:	\$2,724
Inflation Rate:	2.0%
Discount Rate: (Cost of Capital)	8.0%
FSG's Invoice Amount:	\$39,316.37
Cost per Day to Wait:	\$51

EPAct Deduction:* Not included (Extended to 12/31/13) Estimated Rebate: \$0 (Utility must verify) Net Installed Cost: \$39,316 Total Fixtures: 549 Est. Days to Complete: Simple Payback: 3.49 Yrs

(Excluding EPAct Deductions) **Annual Savings:** Raw Cash Flow: **Cumulative Cash Flow:**

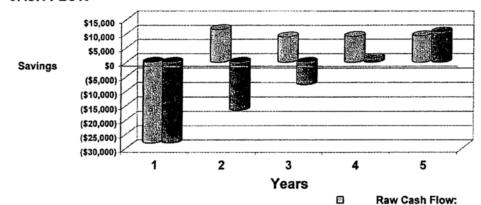
Year 1	Year 2	Year 3	Year 4	Year 5
\$11,257	\$11,483	\$8,875	\$9,045	\$9,216
(\$28,059)	\$11,483	\$8,875	\$9,045	\$9,216
(\$28,059)	(\$16,576)	(\$7,702)	\$1,344	\$10,560
11.:				(Constant

Return on Investment:

2

Cumulative Cash Flow:

CASH FLOW



Authorization To Proceed:

I hereby agree with the proposal presented to me by FSG and hereby authorize them to proceed with the installation. If there is a utility rebate, I also authorize FSG to file the necessary paperwork to secure such rebate on my behalf.

Name: Joe Latteo

	Facilities Director	
Signature	Title	Date

^{&#}x27;See your CPA for confirmation

If Maintenance Savings was included, it will affect the first two years (as additional savings). If Inflation was entered, it will impact years 2-5

FSG Lighting Economic Analysis

Joe Letteo Williamson County (CTTC) FSG Representative: Chris Haskell

Avg Loaded kWh Rate:

PRESENT SYSTEM Watts/Sq Ft Not Included Total kW: 33.95 Total kWh: 148,623

PROPOSED SYSTEMS Watta/Sq Ft: Not included
Total kW: 13.55 1416 FT/2 ama
Total kWh: 70,111

Total Savod | 20,40

Saved kWh: 78.412

Direct Energy Savings: Estimated Maintenance Savings: Indirect HVAC Savings: TOTAL ANNUAL SAVINGS:

\$2,724.00 \$888.19 \$11,257.40 \$2,996.40

Sales Tax Included: Total Contract (OUR INVOICE): Lose Estimated Rebate: NET CUSTOMER COST:

\$39,316.37 \$0.00 - By the wifelping while company \$39,316.37

Simple Payback (Yrs): Return on Investment:

28.6%

Avg Impact of Lighting on HVAG: 12.5% Lach Yest Produced

3.48

\$0.0976

DEEMED HRS: Office 3,760 Rotal 4,280 Educational K-12 2,180 Standard 24H/ Grocery 6,900 In Patient Care 3,760 Parking Garege 8,900 Offices

Return on Investo			28.6%				\$ 80 E.	X I S T I	NG LIG	HTIN	G Table	PR	OPOSED	LIGHT	ING								
Existing L System	Ughting Ex em	alsting lature Oty	Bldg (D or Floor #	Flature Location	Fixt Coscript.	Existing Annual Gurn Hra	Existing Watta / Flature	Existing EVIPer	Exicting With Per Line	Existing	AC Space?	bem	Proposed Lighting System		Prop	Reduce Hrs % for Occ Sen.	Fixt. per Sensor	Prop. Annuel Burn Hrs	Prop. Watte / Focture	Prop. kW per Line	Prop. kWh per Line	Proposed Annual Energy Cost	Proposed Energy Savings
FAZEE		105		Comment Lightenic		8,760	. 72	7.6	64,228	\$6,487	Yes	1	P42IRLU-R		105	0%	0	8,760	44	4 62	40,471	\$3,546	\$2,511
226 1901		10		Floods		4,500	100	0.9	4,010	\$395	No	2	CP23/1-SCRW		10	0%	0	4,500	23	9 23	1,036	\$101	\$294
S Ison		264		General Lyrang		2,500	60	17.0	43,600	14,184	Yes	3	CF13/1-SCRW		284	0%	D	2,500	13	3 692	9.230	3900	\$2,254
F228S		108	***	Setule Large		2,500	50	5.4	13,600	\$1,316	Yes	4	F221LL		108	0%	0	2,500	33	3 504	8 910	3009	\$440
500 El10/2		26		(8,760	20	0.5	4,340	\$427	Yos	5	ELED2/1		25	0%	0	8,760		0 15	1,314	\$128	1299
FAZEE		12		(iwww.lighting		8,760	123	1.5	13,430	\$1,261	Yes	. 8	F42IRLU-V		12	0%	0	8,760	- 65	0.78	6,833	5800	\$594
76 MH175/1		5		Nel Pech		4,500	215	1.1	4,838	1472	No	7	FE/100/1			0%	0	4,500	163	0.515	7,316	\$228	\$246
8 7		0				0	0				7	8	7			0%	0	0		0	0		10
959657		0				0	0				7	9	7			0%			0			\$0	50
310 g 7							_ a				7	10	2		-	0%	0	•	0			30	\$0
2000年7		٥					0				7	11	7		-	0%	۰		6			30	50
122 7		0									7	12	7		0	0%	0	0	<u> </u>			\$0	\$0
7		0					0				7	13	2			0%			0			30	50
14. 7		0					0				7	14	7			0%			0	0		\$0	50
RISTARD 2		c		ļ		0	. 0				1 7	15	?	<u> </u>		0%			0			\$0	10
2165 7 2173 7	-	0					е				1	15	?			0%	•	0	0	- 0		\$0	\$0
2027		0					0		-		1.2	17	7	ļ	-	0%			0	0	0	\$0	50
1815 7		0			-	-	0	<u> </u>			7	18	2		-	0%	0	0	-	0		50	50
7 7		0		-	-	0					7	19	?		-	0%	0	0	0	0		30	
7.20 7		0			-	0.					?	20	2	Ļ	<u> </u>	0%			6	0		\$0	50
2213 7		0		-		0	0		ļ <u>.</u>		7	. 21	7			0%	0	0	6	0	0	\$0	. 50
222 7		0					-				7	22	7			0%				0		\$0	\$0
7 23 67		_0_		-	-	0		_		ļ	7	23	7		0	0%		0	0	٥		\$0	\$0
7				-	ļ		-				7	24	7		-	0%			C	0		\$40	
7					-				-	<u></u>	. 7	25	7		٥	0%			0	0		\$0	SO.
26% ?		0			<u> </u>			-	ļ	-	7	26	7	-		0%			-	-		50	50
772 7		0		-	-	0	0	ļ		-	7	27	?	-		0%	0			0		\$0	50
28 7		•			ļ	-0	0	-			1 7	28	7			0%							\$0
29 /2 7		0.		-	-						12	29	?	-		0%	<u> </u>		6		D	, so	\$0
307, 7		0		-	-		0		ļ	ļ	7	30	7			0%						\$0	10
7		<u> </u>		-	-		-			-	7	31	7	-	<u> • </u>	0%			-	0	-	so	50
32.27		<u> </u>			ļ		0			ļ	7	32	17	ļ	ļ	0%		0		-		\$0	\$0
333 7		٥	-			<u> </u>	0	-	ļ		7	33	12	ļ		0%		0		0	0	\$0	50
7011 7			L				0		L		7_	34	17			0%			0	0		\$0	\$0



Prepared For:

Joe Latteo

Williamson County (CTTC)

601 N Alligator

Your KWH Saved:

78,412



According to the EPA, for each KWH saved, approximately 1.8 pounds of Carbon Dioxide (CO₂), .005 pounds of Sulfur Dioxide (SO₂), .003 pounds of Nitrogen Oxides (NOx), and .043 milligrams of Mercury (Hg) are eliminated from future power plant emissions into our atmosphere annually.

CO₂ is a "Greenhouse Gas" while SO₂ contributes to acid rain formation and NOx contributes to the troposheric ozone formation (Smoq) and estuarial damage.

The Annual Pollution Reduction Impact of Your Project

Carbon Dioxide (bs): 141,142

Nitrogen Oxides (lbs).

235

Sulfur Dioxide (tbs): 470

Mercury (grams):

3

For every 10,000 Kilowatt Hours saved the EPA has estimated the savings to be equivalent to planting 2.9 acres of trees annually or equivalent to removing 1.4 cars from our roads annually.

Your Project's Local Impact

Acres of Trees Planted:

23

Cars Removed: 11

The EPA does regulate the disposal of lighting products if they contain hazardous waste. Fluorescent lamps, HID lamps, and some incandescent lamps may be considered hazardous waste. PCB containing ballast are already regulated. If you are already classified as a hazardous waste generator you must follow the disposal and or recycling regulations from the EPA. If you produce more than 100kg of hazardous waste per month, you are considered a hazardous generator.

All Generators of lamp waste products must perform a TCLP (Toxicity Characteristic Leaching Procedure) to identify potential hazards. The lamps cannot exceed 0.2 milligram per liter in order to pass. Your local landfill may or may not accept the lamps that pass. Ballast containing PCB's MUST also be disposed of through incineration or recycling.

FSG recommends recycling the lamps and incinerating the ballast to provide you with the safest disposal method and sound environmental practices. We can manage the entire project and minimize your potential exposure while archieving the highest savings.





Application & Fixture Design

- Well suited for a wide variety of applications, from multi-deck parking structures, under canopy exteriors, to refrigerated storage, our VPT series uses the latest in weatherproof housings. With a durable ribbed diffuser, excellent optics, and gear tray construction, it outperforms generic strip housings by far.
- Poured in place gasket and cam latches seal the enclosures from most hostile environments.
- Economical Mounting System can provide dramatic savings on the installation labor.
- Designed around T8 and T5 lamps for long term energy savings.
- Very tough diffusers resist breakage and reduce replacement and maintenance costs.

Ordering Options

- T8, T5, or T5HO in 1-lamp through 4-lamp cross sections.
- Available in 2', 4', 5' and 8' lengths.
- A variety of reflector materials available from Hi-Ref White, Micro-Matte, to Miro-4.
- Wide variety of electronic ballast and lamp configurations available from Advance, GE, Osram Sylvania, and Universal.

System Performance Guide

Common	1	Lamp	Mean	Mean		Net	Foture	Lumens
T8 or T5	1 (Quantity and	Lumens	Lumens	Ballast	Lumens	Input	Per Wat
VPT Systems		Type	Per Lamp	Per Fixt	Factor	Per Fort	Watts	(Efficacy)
VPT-1-1x4-1L32	1	F32T8-841	2,800	2,800	0.87	2,438	28	87.0
VPT-2-1×4-2L32	2	F32T8-641	2,800	5.600	387	4,872	53	91.9
VPT-2-1x8-4L32	4	F32TB-841	2,800	11,200	0.87	9,744	107	91.1
VPT-1-1x4-1L32-HP	1	F32T8-841	2,800	2,800	1.15	3,220	41	78 5
VPT-2-1×4-7L32-HP	2	F32TB-841	2 800	5.600	1.15	5.440	73	68 2
VPT-2-1x8-4L32-HP	4	F32T8-841	2.800	11,200	1 15	12 880	147	87.6
VPT-2-1x4-2L28	2	F28T5-841	2.726	6,452	1.00	5,452	64	85.2
VPT-2-1x8-4L28	4	F28T5-841	2,726	10,904	1 00	10,904	129	85.2
VPT-2-1x4-2L54-HO	2	F54T5HQ-641	5,000	10,000	100	10,000	117	65 5
VPT-2-1x8-4L54-HD	4	F54T5HO-841	5,000	20.000	1.00	20,000	234	85 5

Compare To

Common T12		Lamp	Mean	Моэп		Net	Fixture	Lumens
Fluorescent	1 (Ouantity and	Lumens	Lumons	Bohast	Lumens	Input	Per Watt
System		Туре	Per Lamp	Per Fixt	Factor	Per Fixt	Wasts	(Efficacy)
1L40-1x4-WM. Mag	1	F40CWES	2,280	2,280	0.68	2,006	43	457
2L80-1x4-WM, Mag	2	F40CW/ES	2,260	4,580	0.88	4,013	72	55.7
1L96-1x8-SL/ES, Mag	1	F96CWIES	5,060	5,060	0.65	4.453	76	58.8
2L98-1x8-SL/ES. Mag	2	F96CWES	5.060	10,120	0.68	8.908	126	70.7
1L96-1x8-HO/ES, Mag	1	F96CWHO/ES	6,960	6,960	0 95	6,612	125	529
2L96-1x8-HO/ES, Mag	2	F96CW/HO/ES	5,960	13,920	0.93	12.946	210	51 6
ZL95-1x8-VHO/ES, Vag	2	F96CWINHOLES	10,125	20,250	0 93	18.833	310	60 B

VPT Weatherproof Fluorescents

Energy Efficient Series



Body and Mounting

- Fiberglass housing and injection molded polycarbonate lens.
 5VA (f1) rated materials.
- Polycarbonate latches standard, or stainless steel optional.
- Durable stainless steel mounting hardware.
- No holes ever have to be drilled through the housing for installation.
- Installation time is dramatically reduced, providing lower installed costs
- Standard stainless steel bail for chain hung or offset installations.
- Rotary locking sockets.

Reflector

- Hi-Ref white aluminum standard.
 Alanod Miro-4 or Micro Matte reflectors available.
- Snap-in design for ease of access.

Limited Material Warranty

- Limited material warranties direct from component manufacturers; reflectors, ballasts and housings.
- Ballasts by Advance, GE, Osram Sylvania, and Universal.

Contact Us

Precision Fluorescent
Santa Ana, CA
(714) 434-0555
Gainesville, FL
(352) 692-5900
www.precisionfluorescent.com



Features

The Duraguard Large Deep wall pack is UL listed for wet locations.

Housing

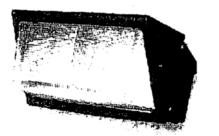
The housing is manufactured of heavy duty die east aluminum with a powder coated dark bronze finish and a hinged door frame. A weatherproof silicone gasket is present for moisture and dust proof protection. Fixture includes a anodized aluminum reflector and high impact heat resistant borosilicate glass for optimum light distribution. Housing comes with threaded 1/2" apertures for securing conduit and or photo cell installation. Fixture wall-mounts directly over 4" outlet box.

Applications

Warehouse facilities Shipping and receiving areas Cold storage facilities Industrial plants Commercial buildings

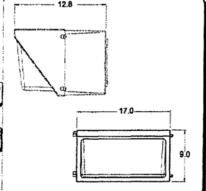
Wattage	Lamp Life	Lumens	Start Time	CRI	Kelven Jemp
30	100000	6000	<.5 SEC	80	3500,4100,5000

Wattage	Lamp Life	Lumens	Start Time	CRI	Kelven Temp
100	100000	8000	<.5 SEC	60	3500.4100.5000



ISO9002compliant





Select an appropriate choice from each column

Typical ordering number

Typical ordering number (Large)

		D-080-IND-LDW	<u> </u>
			Ļ
- 6 . 1 M - M	11	1 = 1 7	124-11

,l.			1			
Prefix	Watte	oge Lan	пр Туре	Fixture Type	Vollage	Options
D	80 100		= Induction	LDWP- Large Deep Wall Pack	120v MT 480v	PC = Photocell F = In-Line Fuse

amp included



Toll Free: (800) 736-7991