

October 8, 2009

Nick Finan  
Executive Director Management Services  
1801 9th Ave N  
Texas City, TX 77592-2608

Re: XTRA Light Upgrade Proposal

Nick:

XTRA Light is pleased to submit the following proposal for an Energy Efficient Lighting Upgrade at the Texas City Lighting Retrofit facilities in Texas City, TX. This proposal is based on a lighting survey performed by Stephen Nelson on September 13, 2009.

The following is a short list of included items that will ensure that your project implementation is risk and interruption free:

- All labor and material - Turnkey
- XTRA Light installation crew
- XTRA Light project manager
- Fixtures and retrofit kits manufactured in Houston, Texas by XTRA Light
- 20 year limited warranty on XTRA Light fixtures
- Specification grade premium quality lamps and ballast
- Certified hazardous material disposal report

At XTRA Light we feel it is important to dedicate a single source of contact throughout the process of sales, design, installation and warrantee — One point of contact, one point of responsibility.

If you have any questions, please contact me.

This offer is made under the  Energy Saving Lighting Products Contract #290-08.

With best regards,

Stephen Nelson  
stephen.nelson@xtralight.com  
713-515-3689

8812 Frey Road, Houston TX 77034  
Phone: (713) 943-9927 Fax: (713) 943-2818

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# Energy-Efficient Lighting Upgrade

## FOR

## Texas City Lighting Retrofit Texas City, TX

Submitted by:  
X-Tra Light Manufacturing, Inc

October 8, 2009

"At X-Tra Light We Cut Lighting Cost Up to 65%"

## Executive Summary

X-TRA Light has designed a model energy-efficient lighting retrofit specifically for Texas City in Texas City, TX. This project incorporates the best lighting technology in the country and is designed to provide better light and save money.

The net cost of the project is \$113,160 and is conservatively projected to save \$37,394 per year. The project will take about 5 days to install without interrupting any facility activity. The payback period for this upgrade is 3.03 years (excluding any maintenance labor savings) and permanently lowers the operating cost of the facility. This project incorporates the following:

**Lighting/Energy Audit** – X-TRA Light Manufacturing, Inc. conducted a lighting audit of the Texas City, TX facility. This survey and evaluation has led us to recommend and propose an energy-saving lighting upgrade containing the following:

- 1) **NEW LIGHTING FIXTURES AND RETROFIT KITS** - The replacement of approximately 1777 outdated and inefficient fixtures with state-of-the-art fluorescent fixtures and retrofit kits. This system has tremendous operating advantages over the existing system, namely: Uses less fixture wattage, lamps last 50 percent longer, better color rendering, much better color, lower replacement cost, and less lumen depreciation over time, all leading to a more comfortable and productive work environment.
- 2) **OPERATING COST SAVINGS** - Savings will be in three forms: First, a direct reduction in the electric bill since the upgraded system burns less electricity; second, the reduction in the cost of replacement material because the electronic ballast and T8 lamp technology lasts much longer and costs less to replace than the existing system; and, third, maintenance labor expense is reduced because your employees will not have to replace lamps and ballasts at the rate they do today. NOTE: Labor savings are excluded from the financial summary because under normal circumstances, maintenance personnel are not laid off when they are not changing light bulbs, there are plenty of other things to be done. In addition, once the project is complete, the entire facility will be standardized on one major lamp type, thus there is only one major type of lamp to stock as replacement material.
- 3) **TURNKEY INSTALLATION** – X-TRA Light maintains an installation capability with no geographic or project size limitations. This turnkey project will require minimal involvement of facility maintenance personnel during installation.
- 4) **PROJECT FINANCIAL SUMMARY –**

Initial Costs	Estimated Rebate	Net Project Cost	Electric Savings	Material Repl. Savings	Maint.Labor Savings	Total Annual Savings	Payback in Years
\$124,580	\$11,420	\$113,160	\$33,962	\$3,433	Not Incl.	\$37,394	3.03 years

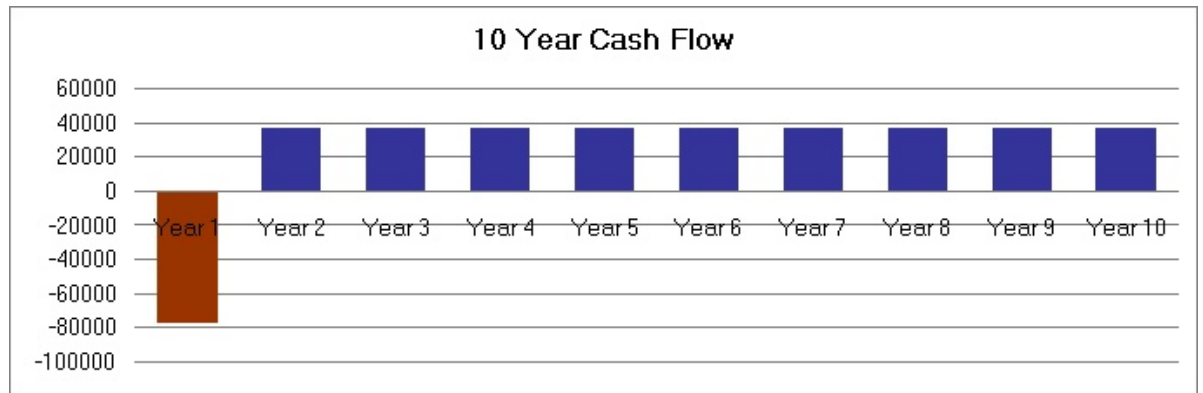
**TEXAS CITY LIGHTING RETROFIT**  
**Lighting Upgrade**  
**Proposal Summary**

<b>Scope</b>	<b>Project Cost</b>	<b>Estimated Rebate</b>	<b>Net Project Cost</b>	<b>Energy &amp; Demand Savings</b>	<b>Maintenance Savings</b>	<b>Total Savings</b>	<b>Payback in Years</b>
City Hall	\$16,614	\$1,507	\$15,107	\$4,482	\$416	\$4,897	3.08
Nestler Civic Center	\$27,389	\$3,002	\$24,387	\$8,928	\$815	\$9,742	2.50
Criminal Justice	\$34,848	\$2,338	\$32,510	\$6,954	\$881	\$7,834	4.15
Recreation Center	\$18,569	\$3,042	\$15,527	\$9,045	\$627	\$9,672	1.61
Convention Center	\$27,161	\$1,531	\$25,629	\$4,553	\$695	\$5,248	4.88
<b>Total Project</b>	<b>\$124,580</b>	<b>\$11,420</b>	<b>\$113,160</b>	<b>\$33,961</b>	<b>\$3,433</b>	<b>\$37,394</b>	<b>3.03</b>

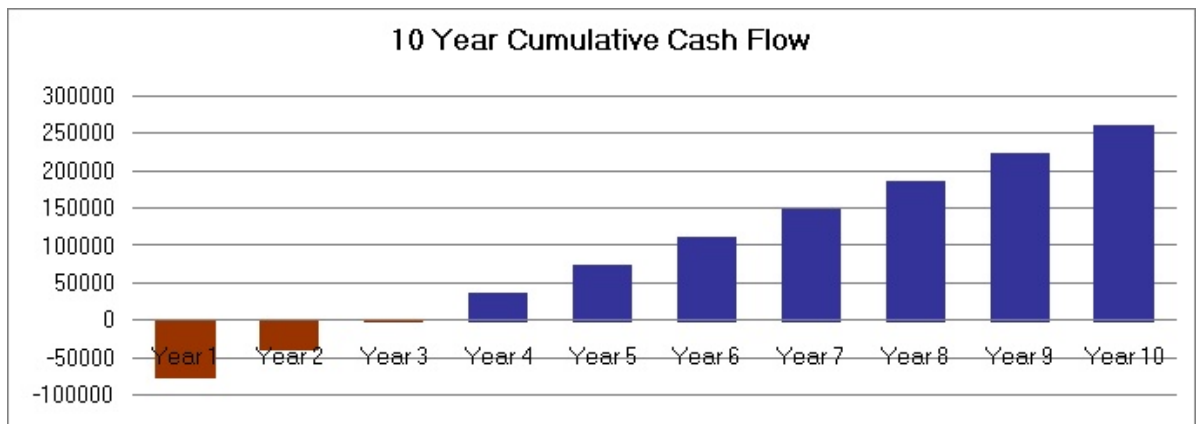
Texas City Lighting Retrofit  
Energy Efficient Lighting Upgrade

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total
Installation Costs	(\$124,580)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$124,580)
Est. Rebate	\$11,420	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,420
Annual Energy / Maintenance Savings	\$37,394	\$37,394	\$37,394	\$37,394	\$37,394	\$37,394	\$37,394	\$37,394	\$37,394	\$37,394	\$373,945
Net Annual Cash Flow Compared to Current Status	(\$75,765)	\$37,394	\$37,394	\$37,394	\$37,394	\$37,394	\$37,394	\$37,394	\$37,394	\$37,394	\$260,785
Discounted Cash Flow (DCF)	(\$68,878)	\$30,905	\$28,095	\$25,541	\$23,219	\$21,108	\$19,189	\$17,445	\$15,859	\$14,417	\$126,900

Assumptions	
Analysis Period (Years)	10
Total Installation Costs	(\$124,580)
Estimated Rebate	\$11,420
Annual Energy/Maint Savings	\$37,394
No. months of savings in Year 1	12
Average Utility Rate Increase	0.00%
Assumes constant demand	Yes
Company Discount Rate	10.00%



Performance Measures	
Payback (Years)	3.03
Internal Rate of Return	48%
Net Present Value	\$126,900



## **Product Information / Warranty**

### **Product Information**

X-TRA Light uses only top quality name brand fixtures and electrical components in our energy-efficient lighting projects. The system is designed to give you many years of greatly reduced lighting maintenance expense and is backed by product warranties that are the best available in the industry.

### **Warranty**

The products are warranted as follows:

- New fluorescent fixtures are warranted by X-TRA Light Manufacturing Partnership Ltd. for a period of 20 years (five years on lenses).
- Reflectors used throughout this project are unconditionally warranted for a period of 25 years (parts and labor)
- Electronic ballasts contained in both new fixtures and retrofits are rated to last 20 plus years and are unconditionally warranted for a period of five years.
- Energy-efficient T5 lamps are rated to last 36,000 hours and are unconditionally warranted for a period of three years.
- Energy-efficient T8 lamps are rated to last 36,000 hours and are unconditionally warranted for a period of three years.

In the event of any outage that may occur with any electronic product, X-TRA Light will coordinate the replacements required. Our program provides the facility with a par stock of replacement material and that stock will be continually replenished throughout the warranty periods. You will not have to buy replacement material on the fixtures we retrofit during this time.

**Texas City Lighting Retrofit**  
**ENERGY EFFICIENT LIGHTING UPGRADE**  
**COST, SAVINGS AND PAYBACK ANALYSIS**  
**TOTAL PROJECT**

10/08/2009

EXISTING SYSTEM				PROPOSED SOLUTION				Savings								Summary
Qty.	Description	KW Load	Watts Each	Qty.	Description	KW Load	Watts Each	KW Saved	KWH Saved	Annual Hours	Proposed Hours	KW\$ Savings	KWH\$ Savings	Maint Savings	Total Savings	Total Cost
14	Exit 2 Lamp 15 Watt Incandescent	0.4	30	14	Exit Red LED	0.1	4	0.4	3,189	8760	8760	\$31	\$223	\$33	\$286	
7	4' - 2T12 Strip	0.5	72	7	Lamp & Ballast Kit 2 Lamp 4' T8 Low Ballast Factor	0.3	48	0.2	437	2600	2600	\$14	\$31	\$3	\$47	
6	Wrap 4' 2 Lamp T12	0.4	72	6	Lamp & Ballast Kit 2 Lamp 4' T8 Low Ballast Factor	0.3	48	0.1	374	2600	2600	\$12	\$26	\$2	\$41	
6	65 Watt R30	0.4	65	6	Relamp 15 Watt Flood R30 Compact Fluorescent Flood	0.1	15	0.3	780	2600	2600	\$25	\$55	\$78	\$158	
5	75 Watt R40	0.4	75	5	Relamp 26 Watt Compact Fluorescent Flood	0.1	26	0.2	637	2600	2600	\$21	\$45	\$22	\$87	
21	8' - 1T12 Strip	1.6	74	21	Retrofit Cover Kit 8' 2 Lamp T8 Low Ballast Factor	1.0	48	0.5	1,420	2600	2600	\$46	\$99	\$26	\$171	
13	8' - 2T12 Strip	1.4	107	13	Retrofit Cover Kit 8' 4 Lamp T8 Low Ballast Factor	1.2	96	0.1	372	2600	2600	\$12	\$26	\$19	\$57	
23	2x2 - 2T12 U Tube Recessed	1.7	72	23	Retrofit Troffer Kit 2x2 2 Lamp T8 Low Ballast Factor Specular Reflector	0.8	36	0.8	2,153	2600	2600	\$70	\$151	\$41	\$261	
120	2x4 - 4T12 Recessed	17.3	144	120	Retrofit Troffer Kit 2x4 2 Lamp T8 Low Ballast Factor Specular Reflector	5.8	48	11.5	29,952	2600	2600	\$968	\$2,097	\$193	\$3,257	
6	2x4 - 3T8 Recessed Parabolic	0.5	82	6	Retrofit Troffer Kit 2x4 Parabolic 2 Lamp T8 Low Ballast Factor Specular Reflector	0.3	48	0.2	530	2600	2600	\$17	\$37	\$7	\$61	
11	2x4 - 4T12 Recessed	1.6	144	11	RTK 2x4 332L Specular Reflector Retrofit Troffer Kit	0.8	72	0.8	2,059	2600	2600	\$67	\$144	\$14	\$225	
8	2x4 - 4T8 Recessed	0.9	112	8	RTK 2x4 332L Specular Reflector Retrofit Troffer Kit	0.6	72	0.3	832	2600	2600	\$27	\$58	\$9	\$94	
13	300 Watt Incandescent	3.9	300	13	Compact Fluorescent Square Canapy 1X1 2 26W Compact Fluorescents	0.7	54	3.2	19,188	6000	6000	\$269	\$1,343	\$240	\$1,852	
13	Exit 2 Lamp 15 Watt Incandescent	0.4	30	13	Exit Red LED w/ Emergency Heads	0.1	4	0.3	2,961	8760	8760	\$28	\$207	\$30	\$266	
81	4' 1T12 Strip	3.5	43	53	Industrial Strip Channel 4', No Reflector, 1 Lamp T8	1.3	24	2.2	13,266	6000	6000	\$186	\$929	\$23	\$1,137	
50	8' - 2T12 Strip	5.4	107	50	ISC 8' No Reflector 432L Industrial Strip Channel	4.8	96	0.6	3,300	6000	6000	\$46	\$231	\$175	\$452	
8	Vanity 2T12	0.6	73	8	Lamp & Ballast Kit 2 Lamp 3' T8 Low Ballast Factor	0.3	40	0.3	1,584	6000	6000	\$22	\$111	\$6	\$139	
6	4' - 2T12 Industrial	0.5	86	6	Lamp & Ballast Kit 2 Lamp 4' T8 Low Ballast Factor	0.3	48	0.2	1,368	6000	6000	\$19	\$96	\$16	\$131	
47	Wrap 4' 2 Lamp T12	3.4	72	47	Lamp & Ballast Kit 2 Lamp 4' T8 Low Ballast Factor	2.3	48	1.1	6,768	6000	6000	\$95	\$474	\$45	\$613	
12	Wrap 4' 4 Lamp T12	1.7	144	12	Lamp & Ballast Kit 4 Lamp 4' T8 Low Ballast Factor	1.2	96	0.6	3,456	6000	6000	\$48	\$242	\$32	\$323	
8	4x4 6T12	1.7	216	8	Lamp & Ballast Kit 6 Lamp T8 Low Ballast Factor	1.2	146	0.6	3,360	6000	6000	\$47	\$235	\$27	\$309	
14	65 Watt Incandescent	0.9	65	14	Relamp CFL 13W	0.2	14	0.7	4,284	6000	6000	\$60	\$300	\$-25	\$335	
56	2x4 - 4T12 Recessed	8.1	144	56	Retrofit Troffer Kit 2x4 2 Lamp T8 Low Ballast Factor Specular Reflector	2.7	48	5.4	32,256	6000	6000	\$452	\$2,258	\$214	\$2,924	

EXISTING SYSTEM				PROPOSED SOLUTION				Savings								Summary
Qty.	Description	KW Load	Watts Each	Qty.	Description	KW Load	Watts Each	KW Saved	KWH Saved	Annual Hours	Proposed Hours	KW\$ Savings	KWH\$ Savings	Maint Savings	Total Savings	Total Cost
6	4' Strip 4T8	0.7	110	6	Bathroom Vanity Wrap 4' 2 Lamp T8	0.3	55	0.3	1,320	4000	4000	\$28	\$92	\$20	\$140	
3	4' Wrap 1T8	0.1	35	3	Lamp & Ballast Kit 1 Lamp 4' T8 Low Ballast Factor	0.1	25	0	120	4000	4000	\$3	\$8	\$2	\$13	
5	Wrap 4' 2 Lamp T12	0.4	72	5	Lamp & Ballast Kit 2 Lamp 4' T8	0.3	54	0.1	360	4000	4000	\$8	\$25	\$3	\$36	
3	4' - 2T12 Strip	0.2	72	3	Lamp & Ballast Kit 2 Lamp 4' T8 Low Ballast Factor	0.1	48	0.1	288	4000	4000	\$6	\$20	\$2	\$28	
37	4' 2T8 Strip	2.1	58	37	Lamp & Ballast Kit 2 Lamp 4' T8 Low Ballast Factor	1.8	48	0.4	1,480	4000	4000	\$31	\$104	\$18	\$153	
64	Wrap 4' 2T8	3.4	53	64	Lamp & Ballast Kit 2 Lamp 4' T8 Low Ballast Factor	3.1	48	0.3	1,280	4000	4000	\$27	\$90	\$55	\$171	
24	4' Wrap 3T8	2.0	82	24	Lamp & Ballast Kit 3 Lamp 4' T8 Low Ballast Factor	1.7	72	0.2	960	4000	4000	\$20	\$67	\$33	\$121	
123	2x4 - 3T8 Recessed	10.5	85	123	Retrofit Troffer Kit 2x4 2 Lamp T8 Low Ballast Factor Specular Reflector	5.9	48	4.6	18,204	4000	4000	\$382	\$1,274	\$190	\$1,846	
6	2x4 - 4T8 Recessed	0.7	112	6	Retrofit Troffer Kit 2x4 2 Lamp T8 Low Ballast Factor Specular Reflector	0.3	48	0.4	1,536	4000	4000	\$32	\$108	\$13	\$153	
112	2x4 - 3T8 Recessed Parabolic	9.2	82	112	Retrofit Troffer Kit 2x4 Parabolic 2 Lamp T8 Low Ballast Factor Specular Reflector	5.4	48	3.8	15,232	4000	4000	\$320	\$1,066	\$208	\$1,594	
62	2x4 - 4T8 Recessed Parabolic	6.8	110	62	Retrofit Troffer Kit 2x4 Parabolic 2 Lamp T8 Low Ballast Factor Specular Reflector	3.0	48	3.8	15,376	4000	4000	\$323	\$1,076	\$212	\$1,611	
8	2x4 - 3T8 Recessed Parabolic	0.7	82	8	RTK 2x4 132L No Reflector Retrofit Troffer Kit	0.2	26	0.4	1,792	4000	4000	\$38	\$125	\$13	\$176	
66	2x4 - 4T8 Recessed	7.4	112	66	RTK 2x4 332L Specular Reflector Retrofit Troffer Kit	4.8	72	2.6	10,560	4000	4000	\$222	\$739	\$113	\$1,073	
75	400 Watt Metal Halide	34.5	460	55	Fluorescent High Bay 4', 6 Lamp T8 High Ballast Factor-Wireguard	11.8	214	22.7	88,647	3900	3900	\$1,909	\$6,205	\$627	\$8,741	
136	4' Strip 1T8	4.8	35	136	Lamp & Ballast Kit 1 Lamp 4' T8 Low Ballast Factor	3.4	25	1.4	8,160	6000	6000	\$114	\$571	\$128	\$813	
15	3' Strip 2T8	0.6	43	15	Lamp & Ballast Kit 2 Lamp 3' T8 Low Ballast Factor	0.6	40	0	270	6000	6000	\$4	\$19	\$12	\$35	
386	4' 2T8 Strip	22.4	58	386	Lamp & Ballast Kit 2 Lamp 4' T8 Low Ballast Factor	18.5	48	3.9	23,160	6000	6000	\$324	\$1,621	\$281	\$2,227	
20	8' Strip 2 F96 T8	2.1	106	20	Retrofit Cover Kit 8' 4 Lamp T8 Low Ballast Factor	1.9	96	0.2	1,200	6000	6000	\$17	\$84	\$51	\$152	
13	2x2 - 2T8	0.7	55	13	Retrofit Troffer Kit 2x2 2 Lamp T8 Low Ballast Factor Specular Reflector	0.5	36	0.2	1,482	6000	6000	\$21	\$104	\$51	\$175	
14	2x4 - 3T8 Recessed	1.2	85	14	Retrofit Troffer Kit 2x4 2 Lamp T8 Low Ballast Factor Specular Reflector	0.7	48	0.5	3,108	6000	6000	\$44	\$218	\$32	\$293	
40	2x4 - 3T8 Recessed Parabolic	3.3	82	40	Retrofit Troffer Kit 2x4 Parabolic 2 Lamp T8 Low Ballast Factor Specular Reflector	1.9	48	1.4	8,160	6000	6000	\$114	\$571	\$111	\$797	
11	2x4 - 4T8 Recessed	1.2	112	11	RTK 2x4 332L Specular Reflector Retrofit Troffer Kit	0.8	72	0.4	2,640	6000	6000	\$37	\$185	\$28	\$250	
					HVAC Savings				50,979				\$3,569			
1777		171.9		1729		93.3		78.6	390,840			\$6,603	\$27,359	\$3,433	\$37,394	\$124,580

<b>Total Project Summary</b>	
Project Cost	\$124,580
Estimated Rebates	(\$11,420)
Net Project Cost	\$113,160
Energy Savings	\$33,962
Maintenance Material Savings	\$3,433
Total Savings	\$37,394

<b>Simple Payback</b>
3.03

**Texas City Lighting Retrofit**  
**ENERGY EFFICIENT LIGHTING UPGRADE**  
**COST, SAVINGS AND PAYBACK ANALYSIS**  
**City Hall**

10/08/2009

EXISTING SYSTEM				PROPOSED SOLUTION				Savings							Summary	
Qty.	Description	KW Load	Watts Each	Qty.	Description	KW Load	Watts Each	KW Saved	KWH Saved	Annual Hours	Proposed Hours	KW\$ Savings	KWH\$ Savings	Maint Savings	Total Savings	Total Cost
City Hall - kWh \$0.0700, kW \$7.00																
1	Exit 2 Lamp 15 Watt Incandescent	0.03	30	1	Exit Red LED	0.00	4	0.03	228	8760	8760	\$2	\$16	\$2	\$20	
7	4' - 2T12 Strip	0.50	72	7	Lamp & Ballast Kit 2 Lamp 4' T8 Low Ballast Factor	0.34	48	0.17	437	2600	2600	\$14	\$31	\$3	\$47	
6	Wrap 4' 2 Lamp T12	0.43	72	6	Lamp & Ballast Kit 2 Lamp 4' T8 Low Ballast Factor	0.29	48	0.14	374	2600	2600	\$12	\$26	\$2	\$41	
6	65 Watt R30	0.39	65	6	Relamp 15 Watt Flood R30 Compact Fluorescent Flood	0.09	15	0.3	780	2600	2600	\$25	\$55	\$78	\$158	
5	75 Watt R40	0.38	75	5	Relamp 26 Watt Compact Fluorescent Flood	0.13	26	0.25	637	2600	2600	\$21	\$45	\$22	\$87	
21	8' - 1T12 Strip	1.55	74	21	Retrofit Cover Kit 8' 2 Lamp T8 Low Ballast Factor	1.01	48	0.55	1,420	2600	2600	\$46	\$99	\$26	\$171	
13	8' - 2T12 Strip	1.39	107	13	Retrofit Cover Kit 8' 4 Lamp T8 Low Ballast Factor	1.25	96	0.14	372	2600	2600	\$12	\$26	\$19	\$57	
23	2x2 - 2T12 U Tube Recessed	1.66	72	23	Retrofit Troffer Kit 2x2 2 Lamp T8 Low Ballast Factor Specular Reflector	0.83	36	0.83	2,153	2600	2600	\$70	\$151	\$41	\$261	
120	2x4 - 4T12 Recessed	17.28	144	120	Retrofit Troffer Kit 2x4 2 Lamp T8 Low Ballast Factor Specular Reflector	5.76	48	11.52	29,952	2600	2600	\$968	\$2,097	\$193	\$3,257	
6	2x4 - 3T8 Recessed Parabolic	0.49	82	6	Retrofit Troffer Kit 2x4 Parabolic 2 Lamp T8 Low Ballast Factor Specular Reflector	0.29	48	0.2	530	2600	2600	\$17	\$37	\$7	\$61	
11	2x4 - 4T12 Recessed	1.58	144	11	RTK 2x4 332L Specular Reflector Retrofit Troffer Kit	0.79	72	0.79	2,059	2600	2600	\$67	\$144	\$14	\$225	
8	2x4 - 4T8 Recessed	0.90	112	8	RTK 2x4 332L Specular Reflector Retrofit Troffer Kit	0.58	72	0.32	832	2600	2600	\$27	\$58	\$9	\$94	
									HVAC Savings				\$418			
227		26.58		227		11.35		15.2	45,740			\$1,280	\$3,202	\$416	\$4,897	\$16,614

Total Project Summary	
Project Cost	\$16,614
Estimated Rebates	(\$1,336)
Net Project Cost	\$15,278
Energy Savings	\$4,482
Maintenance Material Savings	\$416
Total Savings	\$4,897

Simple Payback
3.12

**Texas City Lighting Retrofit**  
**ENERGY EFFICIENT LIGHTING UPGRADE**  
**COST, SAVINGS AND PAYBACK ANALYSIS**  
**Nestler Civic Center**

10/08/2009

EXISTING SYSTEM				PROPOSED SOLUTION				Savings							Summary		
Qty.	Description	KW Load	Watts Each	Qty.	Description	KW Load	Watts Each	KW Saved	KWH Saved	Annual Hours	Proposed Hours	KW\$ Savings	KWH\$ Savings	Maint Savings	Total Savings	Total Cost	
Nestler Civic Center - kWh \$0.0700, kW \$7.00																	
13	300 Watt Incandescent	3.90	300	13	Compact Fluorescent Square Canapy 1X1 2 26W Compact Fluorescents	0.70	54	3.2	19,188	6000	6000	\$269	\$1,343	\$240	\$1,852		
13	Exit 2 Lamp 15 Watt Incandescent	0.39	30	13	Exit Red LED	0.05	4	0.34	2,961	8760	8760	\$28	\$207	\$30	\$266		
13	Exit 2 Lamp 15 Watt Incandescent	0.39	30	13	Exit Red LED w/ Emergency Heads	0.05	4	0.34	2,961	8760	8760	\$28	\$207	\$30	\$266		
81	4' 1T12 Strip	3.48	43	53	Industrial Strip Channel 4', No Reflector, 1 Lamp T8	1.27	24	2.21	13,266	6000	6000	\$186	\$929	\$23	\$1,137		
50	8' - 2T12 Strip	5.35	107	50	ISC 8' No Reflector 432L Industrial Strip Channel	4.80	96	0.55	3,300	6000	6000	\$46	\$231	\$175	\$452		
8	Vanity 2T12	0.58	73	8	Lamp & Ballast Kit 2 Lamp 3' T8 Low Ballast Factor	0.32	40	0.26	1,584	6000	6000	\$22	\$111	\$6	\$139		
6	4' - 2T12 Industrial	0.52	86	6	Lamp & Ballast Kit 2 Lamp 4' T8 Low Ballast Factor	0.29	48	0.23	1,368	6000	6000	\$19	\$96	\$16	\$131		
47	Wrap 4' 2 Lamp T12	3.38	72	47	Lamp & Ballast Kit 2 Lamp 4' T8 Low Ballast Factor	2.26	48	1.13	6,768	6000	6000	\$95	\$474	\$45	\$613		
12	Wrap 4' 4 Lamp T12	1.73	144	12	Lamp & Ballast Kit 4 Lamp 4' T8 Low Ballast Factor	1.15	96	0.58	3,456	6000	6000	\$48	\$242	\$32	\$323		
8	4x4 6T12	1.73	216	8	Lamp & Ballast Kit 6 Lamp T8 Low Ballast Factor	1.17	146	0.56	3,360	6000	6000	\$47	\$235	\$27	\$309		
14	65 Watt Incandescent	0.91	65	14	Relamp CFL 13W	0.20	14	0.71	4,284	6000	6000	\$60	\$300	-\$25	\$335		
56	2x4 - 4T12 Recessed	8.06	144	56	Retrofit Troffer Kit 2x4 2 Lamp T8 Low Ballast Factor Specular Reflector <i>HVAC Savings</i>	2.69	48	5.38	32,256	6000	6000	\$452	\$2,258	\$214	\$2,924		
									14,213				\$995				
321		30.43		293		14.95		15.5	108,965			\$1,300	\$7,628	\$815	\$9,742	\$27,389	

Total Project Summary	
Project Cost	\$27,389
Estimated Rebates	(\$3,184)
Net Project Cost	\$24,205
Energy Savings	\$8,928
Maintenance Material Savings	\$815
Total Savings	\$9,742

Simple Payback
2.48

**Texas City Lighting Retrofit**  
**ENERGY EFFICIENT LIGHTING UPGRADE**  
**COST, SAVINGS AND PAYBACK ANALYSIS**  
**Criminal Justice**

10/08/2009

EXISTING SYSTEM				PROPOSED SOLUTION				Savings							Summary		
Qty.	Description	KW Load	Watts Each	Qty.	Description	KW Load	Watts Each	KW Saved	KWH Saved	Annual Hours	Proposed Hours	KW\$ Savings	KWH\$ Savings	Maint Savings	Total Savings	Total Cost	
Criminal Justice - kWh \$0.0700, kW \$7.00																	
6	4' Strip 4T8	0.66	110	6	Bathroom Vanity Wrap 4' 2 Lamp T8	0.33	55	0.33	1,320	4000	4000	\$28	\$92	\$20	\$140		
3	4' Wrap 1T8	0.11	35	3	Lamp & Ballast Kit 1 Lamp 4' T8 Low Ballast Factor	0.08	25	0.03	120	4000	4000	\$3	\$8	\$2	\$13		
5	Wrap 4' 2 Lamp T12	0.36	72	5	Lamp & Ballast Kit 2 Lamp 4' T8	0.27	54	0.09	360	4000	4000	\$8	\$25	\$3	\$36		
3	4' - 2T12 Strip	0.22	72	3	Lamp & Ballast Kit 2 Lamp 4' T8 Low Ballast Factor	0.14	48	0.07	288	4000	4000	\$6	\$20	\$2	\$28		
37	4' 2T8 Strip	2.15	58	37	Lamp & Ballast Kit 2 Lamp 4' T8 Low Ballast Factor	1.78	48	0.37	1,480	4000	4000	\$31	\$104	\$18	\$153		
64	Wrap 4' 2T8	3.39	53	64	Lamp & Ballast Kit 2 Lamp 4' T8 Low Ballast Factor	3.07	48	0.32	1,280	4000	4000	\$27	\$90	\$55	\$171		
24	4' Wrap 3T8	1.97	82	24	Lamp & Ballast Kit 3 Lamp 4' T8 Low Ballast Factor	1.73	72	0.24	960	4000	4000	\$20	\$67	\$33	\$121		
123	2x4 - 3T8 Recessed	10.46	85	123	Retrofit Troffer Kit 2x4 2 Lamp T8 Low Ballast Factor Specular Reflector	5.90	48	4.55	18,204	4000	4000	\$382	\$1,274	\$190	\$1,846		
6	2x4 - 4T8 Recessed	0.67	112	6	Retrofit Troffer Kit 2x4 2 Lamp T8 Low Ballast Factor Specular Reflector	0.29	48	0.38	1,536	4000	4000	\$32	\$108	\$13	\$153		
112	2x4 - 3T8 Recessed Parabolic	9.18	82	112	Retrofit Troffer Kit 2x4 Parabolic 2 Lamp T8 Low Ballast Factor Specular Reflector	5.38	48	3.81	15,232	4000	4000	\$320	\$1,066	\$208	\$1,594		
62	2x4 - 4T8 Recessed Parabolic	6.82	110	62	Retrofit Troffer Kit 2x4 Parabolic 2 Lamp T8 Low Ballast Factor Specular Reflector	2.98	48	3.84	15,376	4000	4000	\$323	\$1,076	\$212	\$1,611		
8	2x4 - 3T8 Recessed Parabolic	0.66	82	8	RTK 2x4 132L No Reflector Retrofit Troffer Kit	0.21	26	0.45	1,792	4000	4000	\$38	\$125	\$13	\$176		
66	2x4 - 4T8 Recessed	7.39	112	66	RTK 2x4 332L Specular Reflector Retrofit Troffer Kit	4.75	72	2.64	10,560	4000	4000	\$222	\$739	\$113	\$1,073		
					<i>HVAC Savings</i>				10,276				\$719				
519		44.03		519		26.90		17.1	78,784			\$1,439	\$5,515	\$881	\$7,834	\$34,848	

Total Project Summary	
Project Cost	\$34,848
Estimated Rebates	(\$2,302)
Net Project Cost	\$32,546
Energy Savings	\$6,954
Maintenance Material Savings	\$881
Total Savings	\$7,834

Simple Payback
4.15

**Texas City Lighting Retrofit**  
**ENERGY EFFICIENT LIGHTING UPGRADE**  
**COST, SAVINGS AND PAYBACK ANALYSIS**  
**Recreation Center**

10/08/2009

EXISTING SYSTEM				PROPOSED SOLUTION				Savings							Summary		
Qty.	Description	KW Load	Watts Each	Qty.	Description	KW Load	Watts Each	KW Saved	KWH Saved	Annual Hours	Proposed Hours	KW\$ Savings	KWH\$ Savings	Maint Savings	Total Savings	Total Cost	
Recreation Center - kWh \$0.0700, kW \$7.00																	
75	400 Watt Metal Halide	34.50	460	55	Fluorescent High Bay 4', 6 Lamp T8 High Ballast Factor-Wireguard <i>HVAC Savings</i>	11.77	214	22.73	88,647 13,297	3900	3900	\$1,909	\$6,205 \$931	\$627	\$8,741		
75		34.50		55		11.77		22.7	101,944			\$1,909	\$7,136	\$627	\$9,672	\$18,569	

<b>Total Project Summary</b>	
Project Cost	\$18,569
Estimated Rebates	(\$2,979)
Net Project Cost	\$15,590
Energy Savings	\$9,045
Maintenance Material Savings	\$627
Total Savings	\$9,672

<b>Simple Payback</b>
1.61

**Texas City Lighting Retrofit**  
**ENERGY EFFICIENT LIGHTING UPGRADE**  
**COST, SAVINGS AND PAYBACK ANALYSIS**  
**Convention Center**

10/08/2009

EXISTING SYSTEM				PROPOSED SOLUTION				Savings							Summary		
Qty.	Description	KW Load	Watts Each	Qty.	Description	KW Load	Watts Each	KW Saved	KWH Saved	Annual Hours	Proposed Hours	KW\$ Savings	KWH\$ Savings	Maint Savings	Total Savings	Total Cost	
Convention Center - kWh \$0.0700, kW \$7.00																	
136	4' Strip 1T8	4.76	35	136	Lamp & Ballast Kit 1 Lamp 4' T8 Low Ballast Factor	3.40	25	1.36	8,160	6000	6000	\$114	\$571	\$128	\$813		
15	3' Strip 2T8	0.65	43	15	Lamp & Ballast Kit 2 Lamp 3' T8 Low Ballast Factor	0.60	40	0.05	270	6000	6000	\$4	\$19	\$12	\$35		
386	4' 2T8 Strip	22.39	58	386	Lamp & Ballast Kit 2 Lamp 4' T8 Low Ballast Factor	18.53	48	3.86	23,160	6000	6000	\$324	\$1,621	\$281	\$2,227		
20	8' Strip 2 F96 T8	2.12	106	20	Retrofit Cover Kit 8' 4 Lamp T8 Low Ballast Factor	1.92	96	0.2	1,200	6000	6000	\$17	\$84	\$51	\$152		
13	2x2 - 2T8	0.72	55	13	Retrofit Troffer Kit 2x2 2 Lamp T8 Low Ballast Factor Specular Reflector	0.47	36	0.25	1,482	6000	6000	\$21	\$104	\$51	\$175		
14	2x4 - 3T8 Recessed	1.19	85	14	Retrofit Troffer Kit 2x4 2 Lamp T8 Low Ballast Factor Specular Reflector	0.67	48	0.52	3,108	6000	6000	\$44	\$218	\$32	\$293		
40	2x4 - 3T8 Recessed Parabolic	3.28	82	40	Retrofit Troffer Kit 2x4 Parabolic 2 Lamp T8 Low Ballast Factor Specular Reflector	1.92	48	1.36	8,160	6000	6000	\$114	\$571	\$111	\$797		
11	2x4 - 4T8 Recessed	1.23	112	11	RTK 2x4 332L Specular Reflector Retrofit Troffer Kit	0.79	72	0.44	2,640	6000	6000	\$37	\$185	\$28	\$250		
					<i>HVAC Savings</i>				7,227				\$506				
635		36.33		635		28.30		8	55,407			\$675	\$3,878	\$695	\$5,248	\$27,161	

Total Project Summary	
Project Cost	\$27,161
Estimated Rebates	(\$1,619)
Net Project Cost	\$25,542
Energy Savings	\$4,553
Maintenance Material Savings	\$695
Total Savings	\$5,248

Simple Payback
4.87

## Environmental Impact

	Existing System		Proposed Solution		
	Total Watts	171,867	Total Watts	93,263	
	Energy used per yr.	\$54,786	Energy used per yr.*	\$30,995	
			Energy Savings per yr.	<b>\$27,359</b>	
KiloWatt Load. (Existing System)		172	KiloWatt Load. (Proposed System)		93

### The Cost of Waiting Not changing your lights could be costing you money!

Cost of waiting or Cost of postponing the upgrade	<b>\$2,280</b>	per month	<b>\$27,359</b>	per year*
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### Environmental Impact of Lighting Upgrade Changing your lights can benefit the environment!

Annual Carbon Dioxide (CO <sub>2</sub> ) emission reduction	121,050 lbs.	Coal burning avoided	56,565 lbs. or	Equivalent acres of forest added	15 acres
Annual Sulfur Dioxide (SO <sub>2</sub> ) emission reduction	475 lbs.		26 tons per yr.	Equivalent # cars removed from road	11 cars
Annual Nitrogen Oxide (NO, NO <sub>2</sub> ) reduction	233 lbs.	Atmospheric mercury contamination avoided	1,222 mg. per yr.	50% US Electric Power Generation in 2005 came from coal-burning power plants.	

#### Numbers used (based on EPA Energy Star Facts and Assumptions sheet, 2007)

Emission Factors: gases released per kWh of electricity generated (EPA 2007)		Carbon dioxide and mercury released per lb. of coal burned (EPA 2007) (can vary based on type of coal)		Annual carbon dioxide (lbs.) sequestration by forest and emission by cars (EPA 2007)	
lbs. of CO <sub>2</sub> released	1.54	lbs. of CO <sub>2</sub> generated	2.14	CO <sub>2</sub> sequestration per acre	8066
lbs. of SO <sub>2</sub> released	0.006044	lbs. of mercury released	0.0216	CO <sub>2</sub> emission per average car	11,470
lbs. of NO <sub>x</sub> released	0.002967	<a href="#">Click here to open EPA Energy Star Facts and Assumptions sheet, 2007.</a>			

\* Savings includes HVAC reduction

**Some interesting environmental impact numbers from EPA Facts and Assumptions sheet, 2007.**  
 CFL's represent a net reduction in mercury emissions because of the coal burning avoided.  
 A 10,000 hr. 26W CFL replacing a 100W incandescent bulb avoids the burning of 500 lb. of coal over its life.  
 CFL's represent less than 0.01% of gross US mercury emissions.  
 Mercury emissions contributed by all types of fluorescent lamps from all sectors is about 1% of human-caused mercury released into the environment each year.

# Fluorescent High Bay T8



## Features

- Instant Restrike
- Uplight Options
- Lower Component Replacement Cost
- No Color Shift
- Improved Uniform Illumination
- 480 Volt Option
- Dimming, Occupancy Sensor and Emergency Options Available
- Improved Lumen Maintenance
- Extended Lamp Life

## Application

- Energy efficient fluorescent F32 T8 alternative to Low Bay and High Bay lighting.
- Suitable for industrial open and stack aisle, institutional gymnasiums and warehousing.
- Hanging options include pendant, chain and adjustable cable.

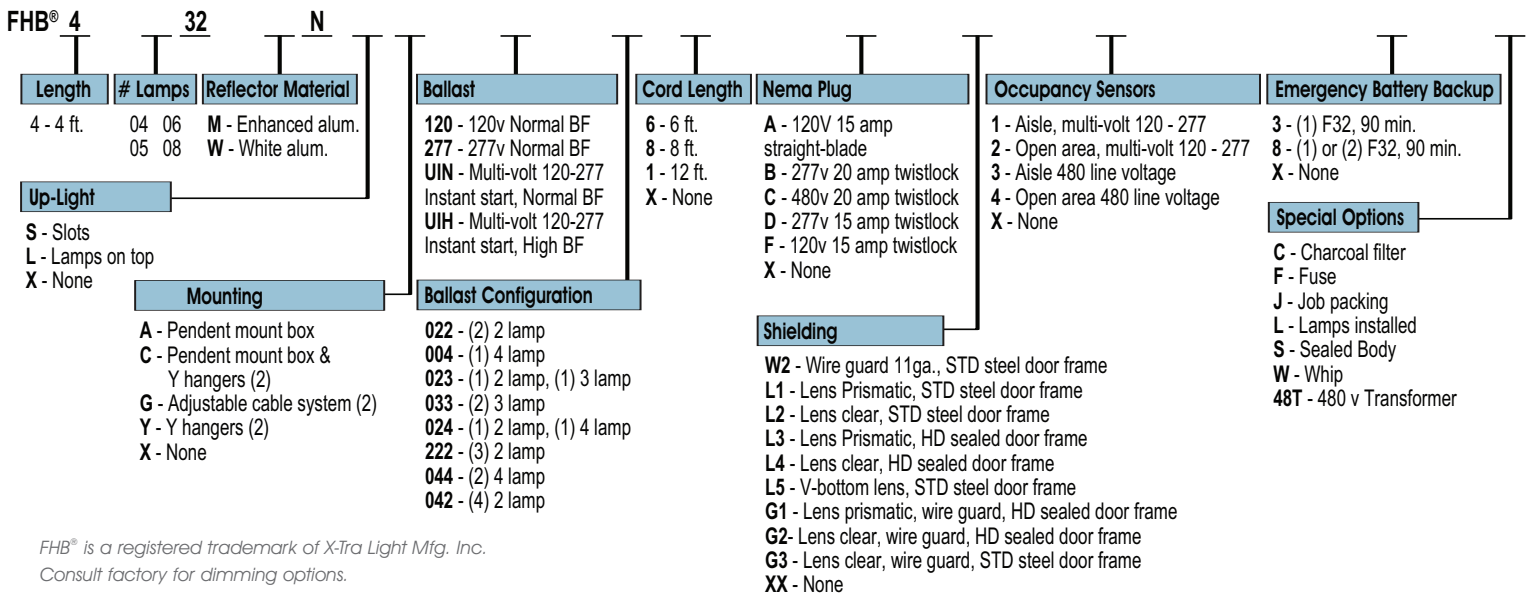
## Construction

- Body is code gauge steel painted white standard, custom colors available.
- Ballast chamber hat section formed for strength and heat dissipation.
- End caps are riveted to body for strength and rigidity.
- Optics are high reflectance code gauge aluminum.
- No tools required for ballast access.
- Lens options include cam-latched and gasketed heavy duty door frame.

## Electrical

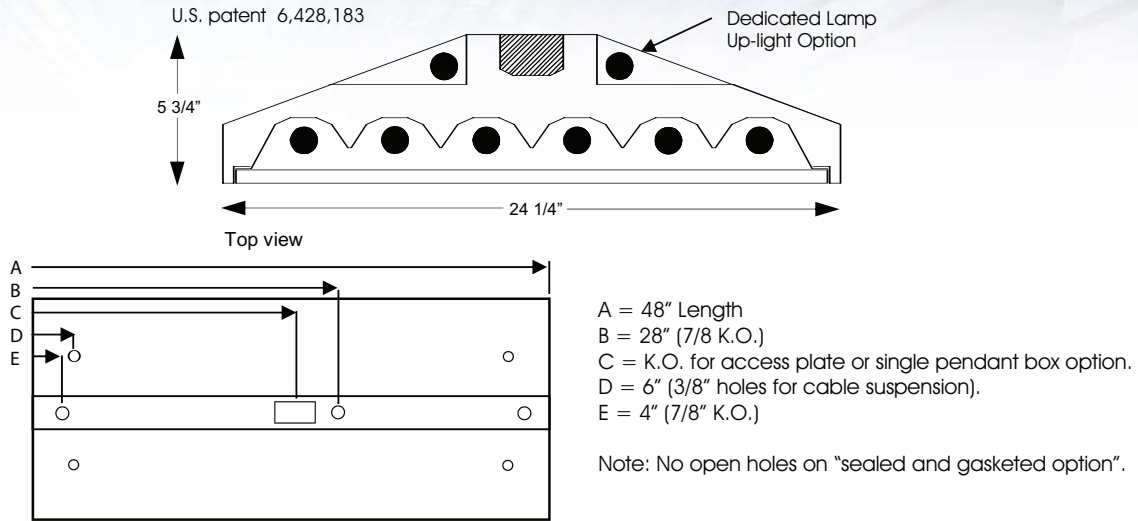
- Quality name brand Class P, HPF electronic ballasts.
- Camlock lampholders.
- Occupancy sensors and emergency options.
- U.L. listed damp location.

## Order Logic



# Fluorescent High Bay T8

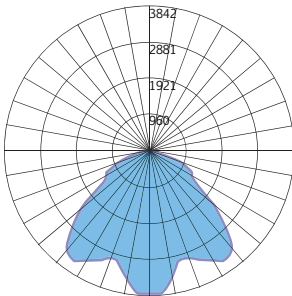
## Dimensional Data



## Photometric Data

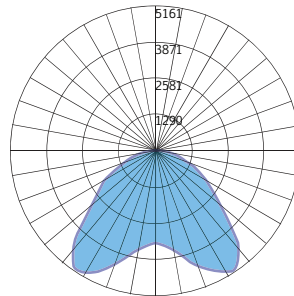
### FHB 4X32

Spacing Criteria = 1.42  
 Efficiency = 82%



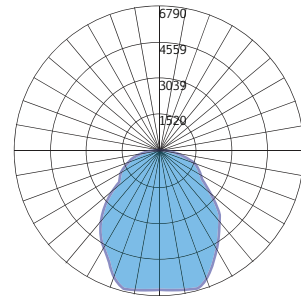
### FHB 5X32

Spacing Criteria = 1.86  
 Efficiency = 90%



### FHB 6X32

Spacing Criteria = 1.22  
 Efficiency = 86%



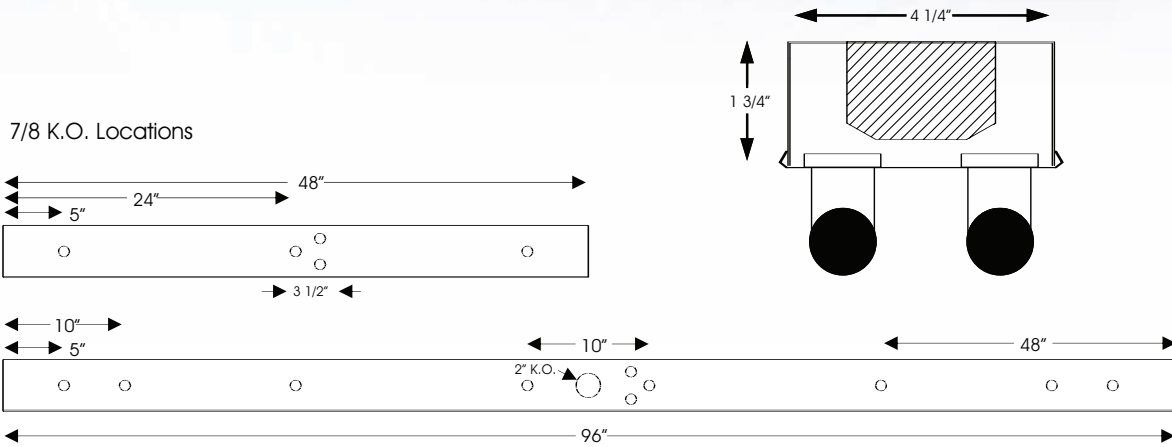
SPACING	FHB 5X32 T8 Normal, 146 W			FHB 5X32 T8 High Light, 190 W			FHB 6X32 T8 Normal, 174 W			FHB 6X32 T8 High Light, 224 W		
	15	20	25	15	20	25	15	20	25	15	20	25
	OPEN AREA			OPEN AREA			OPEN AREA			OPEN AREA		
50' high	38	19	11	47	26	16	46	26	16	57	31	21
40' high	42	21	13	54	28	18	51	30	18	64	35	24
30' high	46	24	15	62	33	20	58	33	20	70	39	26
20' high	51	28	19	66	37	24	62	36	24	77	44	29

Actual results may vary. Additional layouts available upon request. Quick reference chart based on FHB Enhanced Aluminum Optics without Up-Light or lens. @ 2.5 ft. AFF



# Industrial Strip Channel

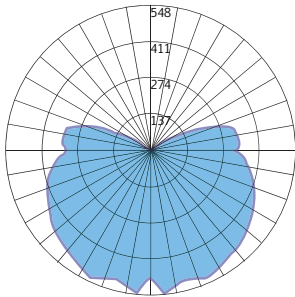
## Dimensional Data



## Photometric Data

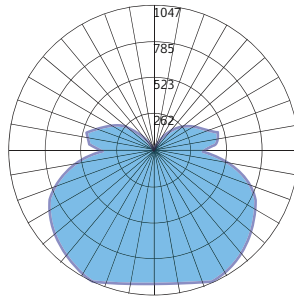
### ISC 4 ft. 1-lamp T8

Spacing Criteria = 1.6  
Efficiency = 95%



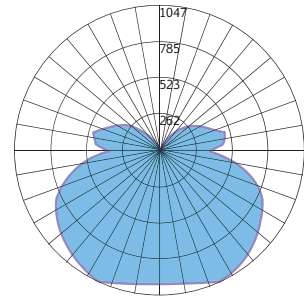
### ISC 4 ft. 2-lamp T8

Spacing Criteria = 1.6  
Efficiency = 93%

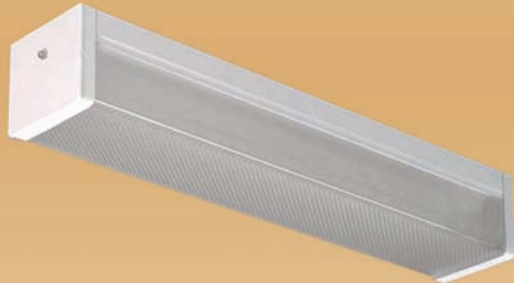


### ISC 4 ft. 3-lamp T8

Spacing Criteria = 1.6  
Efficiency = 92%

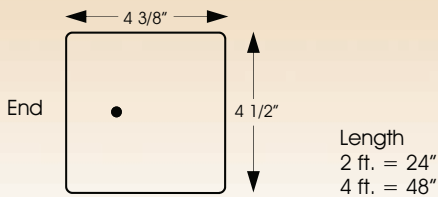


# Bathroom Vanity Wrap T8



## Features

- Slim Profile
- Sturdy Construction
- Standard Lens Replacement
- Electronic Ballast and T8 Lamp
- Available in One or Two Lamp Wide



Back Mounting



## Application

- Attractive, energy efficient luminaire for bathroom wall mount applications.
- Ideal for replacement of existing incandescent fixtures.
- Electronic ballast and T8 lamp design.

## Construction

- Body and end caps are die formed code gauge steel painted white.
- Smooth contour end plates are secured to body with cap nuts.
- Wrap around clear acrylic lens is front prismatic, top and bottom linear ribbed.
- Convenience outlet and on/off switch optional.

## Electrical

- Quality name brand Class P, HPF electronic ballasts.
- U.L. listed damp location.

## Order Logic

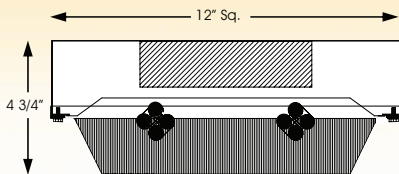
BVW		X	X	X	X	X	X	XX	X	X
Length	# Lamps	Lamp Type	Ballast				Special Options			
2 - 2 ft.	01	17 - F17 T8	120 - 120v Normal BF				F - Fuse			
4 - 4 ft.	02	32 - F32 T8	277 - 277v Normal BF				L - Lamps installed			
			UIL - Multi-volt 120-277							
			Instant start, Low BF							
			UIN - Multi-volt 120-277							
			Instant start, Normal BF							
			<b>Ballast Configuration</b>							
			001 - (1) 1 lamp							
			002 - (1) 2 lamp							

# Compact Square Canopy

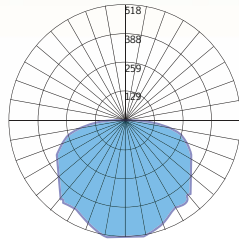
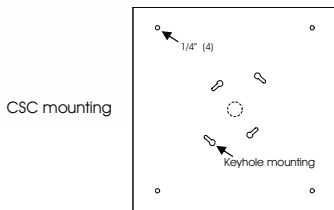


## Features

- Compact Profile
- Sturdy Construction
- Longer Component Life
- Easy Ballast Life
- Lamp Configuration options



Efficiency=63%  
Spacing=1.4  
2-Lamp 26 Watt,  
electronic ballast



## Application

- Clean lines, architectural designed luminaire for industrial and commercial applications.
- Ideal replacement for incandescent fixtures up to 300 watts.
- Polycarbonate lens and tamper-proof screw options for high abuse areas.
- Suitable for surface mount applications.

## Construction

- Housing is code gauge cold rolled steel, painted high gloss white.
- Custom colors available, consult factory.
- Compact lamp options include 13 watt and 26 watt.
- Reflector is high reflectance code gauge aluminum.
- Acrylic lens standard with bottom prismatic, sides linear ribbed.
- Tamper-proof screws optional for high abuse areas.
- Die cut gasket adhered to lens keeps moisture and contaminants out.

## Electrical

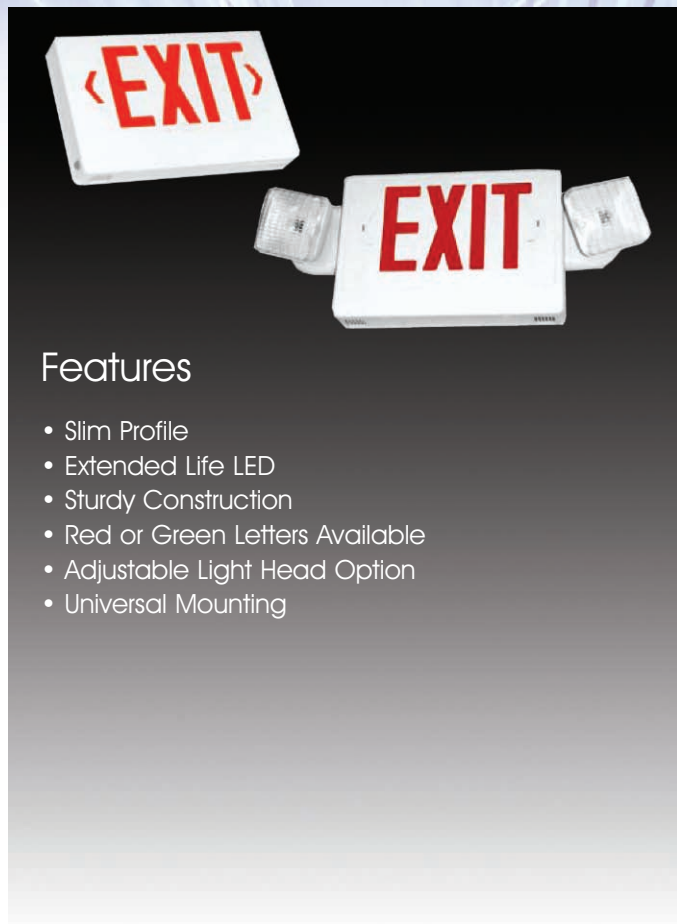
- Quality name brand Class P, HPF electronic ballasts. Magnetic ballast option available.
- U.L. listed damp location.

## Order Logic

# Lamps	Lamp Type	Ballast	Ballast Configuration	Shielding	Special Options
01	13 - CF13	UPE - Multi-Volt	001 - (1) 1 lamp	L2 - Lens acrylic	L - Lamps installed
02	18 - CF18	Programmed Start	011 - (2) 1 lamp	L8 - Lens polycarbonate	V - Tamper-Proof Screw
03	26 - CF26	Electronic	002 - (1) 2 lamp		
		12M- 120v Magnetic	003 - (1) 3 lamp		
		27M- 277v Magnetic			
		12E- 120v Electronic			
		27E- 277v Electronic			

Refer to options terminology matrix for additional options

# Emergency Exit

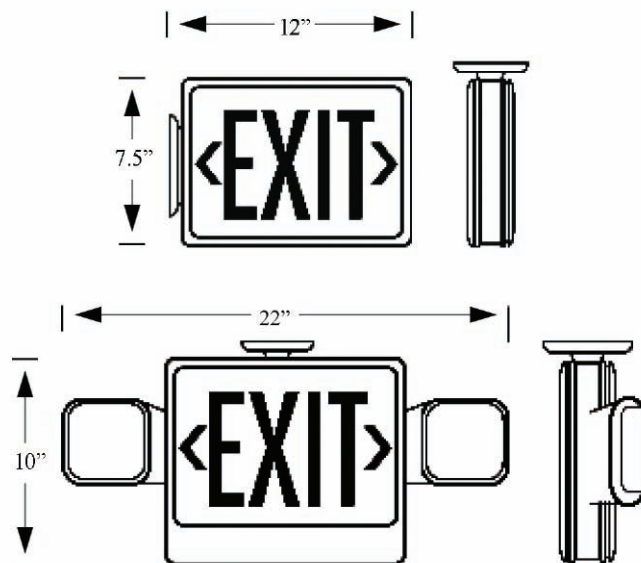


## Features

- Slim Profile
- Extended Life LED
- Sturdy Construction
- Red or Green Letters Available
- Adjustable Light Head Option
- Universal Mounting

## Construction

- Compact, low profile design in neutral finish.
- Injection molded V-O flame retardant, high impact housing.
- Universal mounting canopy for side or top mount.
- Push to test switch and Ni-cad batteries for emergency units.
- Energy consumption is 4 watts for red, 2 watts for green.
- Universal transformer 120/277 volt.
- Universal single or double face.
- Automatic low voltage disconnect (LVD).
- Optional two adjustable 5.6 watt glare free lighting heads.
- U.L. listed, damp location.



## Order Logic

EMX 000

- 2 - Green, AC/DC w/ Battery Backup
- 3 - Red, AC/DC w/ Battery Backup
- 5 - Red, AC Only
- 6 - Exit/Emergency Light, Red w/ Battery Backup

# Retrofit Cover Kit



## Features

- Ease of Installation
- Sturdy Steel Construction
- Available in 4ft or 8ft Length
- Custom Configurations Available
- Factory Ballast Installation Option

## Application

- Retrofit existing strip channels from H.O. or slimline to T8 F32 or F54 T5 HO.
- Suitable for retail, manufacturing or warehousing.
- Three design options available.

## Construction

- Cover Kit is code gauge steel painted white.
- Precision formed to fit over existing strip channel.
- Tek screws and ballast mounting hardware included.
- Custom lengths and configurations available.

## Electrical

- Lampholders are high profile snap-in rotating camlock design, shunted or non-shunted.
- Factory installed ballast option (Design "A" only).

## Order Logic

RCK		X			
Length	# Lamps	Lamp Type	Optics	Bracket Type	Lampholder Type
4 - 4 ft.	01	32 - F32 T8	A - Design "A"	425 - 4.25" width 1 or 2 Lamp wide Universal	XX - Shunted
8 - 8 ft.	02	54 - F54 T5	B - Design "B"	500 - 5.00" width 1 or 2 Lamp wide Universal	RS - Non-shunted
	04		C - Design "C"	ADJ - Adjustable 1 or 2 lamp wide Universal <i>(Available for Design "C" Only)</i>	

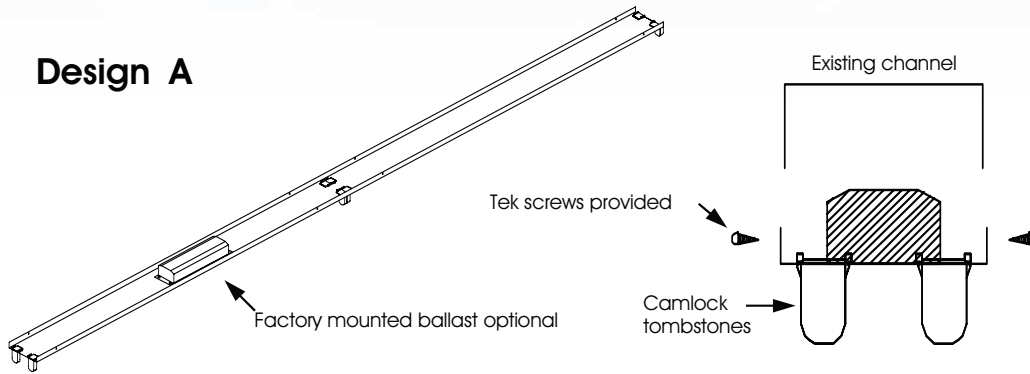
Refer to options terminology matrix for additional options

# Retrofit Cover Kit

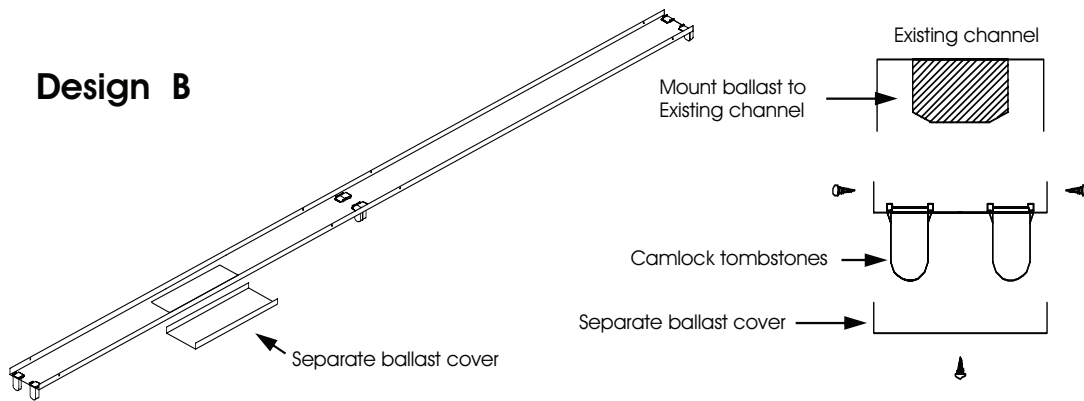
## Dimensional Data

### Retrofit Cover Kit Designs

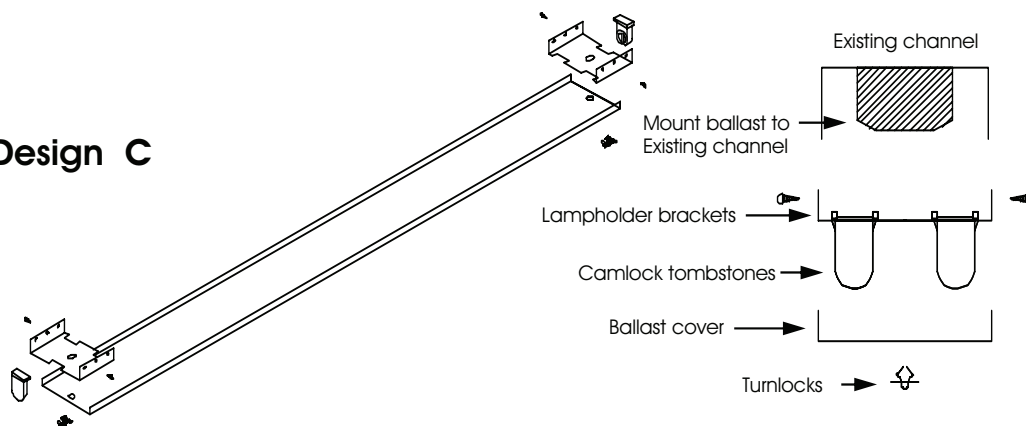
#### Design A



#### Design B



#### Design C



# Retrofit Troffer Kit 2-lamp Prismatic

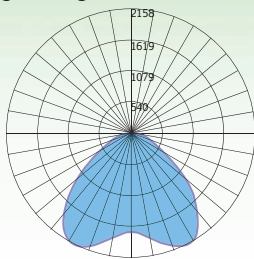


## Features

- 2 Profiles Available
- Available in 2ft or 4ft Length
- Custom Profile Available
- Uniform Illumination

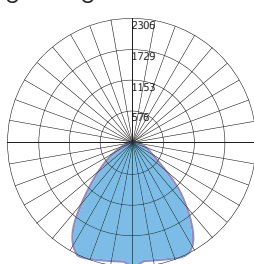
### Profile A

Total Luminaire Optical Efficiency=88%  
Spacing: 0 deg 1.2    90 deg 1.35



### Profile E

Total Luminaire Optical Efficiency=86%  
Spacing: 0 deg 1.1    90 deg 1.0



## Application

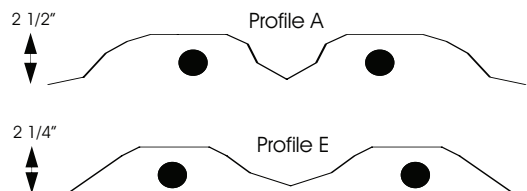
- Universal two lamp retrofit reflector for commercial and institutional facilities.
- Increase efficiency by upgrading existing prismatic recessed troffers to a specular reflector, T8 lamps and an electronic ballast.
- Fits most 4-lamp commercial troffers giving a full lamp appearance.
- Two designs to choose from depending on existing fixture dimensions.

## Construction

- One piece reflectors are manufactured from code gauge aluminum and available in specular or high reflectance white.
- Lamp relocation brackets are die formed code gauge steel.
- Brackets may be mounted to roof or end plates of fixture.
- Reflectors are secured to brackets with pinch tabs for ballast access.
- Kit comes complete with reflector, tek screws, lampholder brackets and pre-shunted low profile lampholders.

## Electrical

- U.L. listed damp location.



## Order Logic

RTK		02				
Length	Lamp Type	Reflector Material	Optics	Special Options		
2 - 2 ft.	17 - F17 T8	M - Enhanced alum.	A - Profile "A"	12" - 12" Jumper Wire		
4 - 4 ft.	32 - F32 T8	W - White alum.	E - Profile "E"			

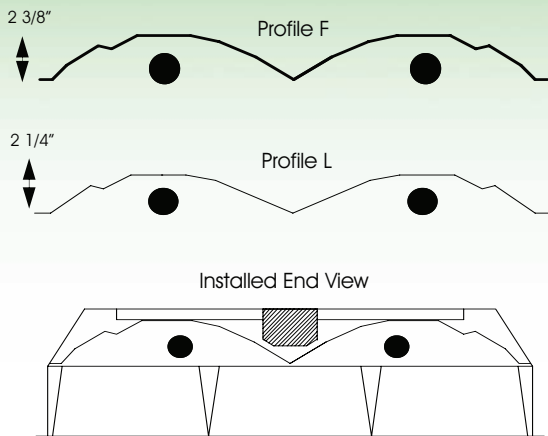
Refer to options terminology matrix for additional options

# Retrofit Troffer Kit 2-lamp Parabolic



## Features

- Available in 2ft or 4ft Length
- Power Relocation Not Necessary
- Uniform Cell Illumination
- 2 Profiles Available
- Custom Profile Available



## Application

- Universal two lamp retrofit reflector for commercial and institutional facilities.
- Increase efficiency by upgrading existing parabolic recessed troffers to a specular reflector, T8 lamps and an electronic ballast.
- Fits most 3-lamp 18 cell troffers giving a full lamp appearance.
- Two designs to choose from depending on existing fixture dimensions.

## Construction

- One piece reflectors are manufactured from code gauge aluminum and available in specular or high reflectance white.
- Lamp relocation brackets are die formed code gauge steel.
- Reflector mounts on top of bracket for clearing offset roof power feed.
- Reflectors are secured to brackets with pinch tabs for ballast access.
- Kit comes complete with reflector, tek screws, lampholder brackets and pre-shunted low profile lampholders.

## Electrical

- U.L. listed damp location.

## Order Logic

Length	Lamp Type	Reflector Material	Optics	Special Options
2 - 2 ft. 4 - 4 ft.	17 - F17 T8 32 - F32 T8	M - Enhanced alum. W - White alum.	F - Profile "F" L - Profile "L"	12" - 12" Jumper Wire

X-TRA Light MFG.  
 8812 Frey Road  
 Houston, TX 77031  
 Ph: (800) 678-6960 Fax: (713) 943-2818

**QUOTATION and Authorization to Proceed**

Name	Texas City Lighting Retrofit	Date	10/8/2009
Address	1801 9th Ave N		
City	Texas City	State	TX
Phone	409-643-5927	Zip	77592-2608
		Contact	Nick Finan
		Destination	

Qty	Description	TOTAL
	JOB NAME/LOCATION - Texas City Lighting Retrofit/Texas City	
	Turnkey installation of the following equipment.	
6	Bathroom Vanity Wrap 4' 2 Lamp T8	
13	Compact Fluorescent Square Canopy 1X1 2 26W Compact Fluorescents	
14	Exit Red LED	
13	Exit Red LED w/ Emergency Heads	
55	Fluorescent High Bay 4', 6 Lamp T8 High Ballast Factor	
53	Industrial Strip Channel 4', No Reflector, 1 Lamp T8	
50	ISC 8' No Reflector 432L Industrial Strip Channel	
139	Lamp & Ballast Kit 1 Lamp 4' T8 Low Ballast Factor	
23	Lamp & Ballast Kit 2 Lamp 3' T8 Low Ballast Factor	
5	Lamp & Ballast Kit 2 Lamp 4' T8	
556	Lamp & Ballast Kit 2 Lamp 4' T8 Low Ballast Factor	
24	Lamp & Ballast Kit 3 Lamp 4' T8 Low Ballast Factor	
12	Lamp & Ballast Kit 4 Lamp 4' T8 Low Ballast Factor	
8	Lamp & Ballast Kit 6 Lamp T8 Low Ballast Factor	
6	Relamp 15 Watt Flood R30 Compact Fluorescent Flood	
5	Relamp 26 Watt Compact Fluorescent Flood	
14	Relamp CFL 13W	
21	Retrofit Cover Kit 8' 2 Lamp T8 Low Ballast Factor	
33	Retrofit Cover Kit 8' 4 Lamp T8 Low Ballast Factor	
36	Retrofit Troffer Kit 2x2 2 Lamp T8 Low Ballast Factor Specular Reflector	
319	Retrofit Troffer Kit 2x4 2 Lamp T8 Low Ballast Factor Specular Reflector	
220	Retrofit Troffer Kit 2x4 Parabolic 2 Lamp T8 Low Ballast Factor Specular Reflector	
8	RTK 2x4 132L No Reflector Retrofit Troffer Kit	
96	RTK 2x4 332L Specular Reflector Retrofit Troffer Kit	

1729	Sub Total	\$124,580
<b>Payment Terms:</b> Net 30	Shipping & Handling	
	Taxes	
	<b>TOTAL</b>	<b>\$124,580</b>

Offered under the  Energy Saving Lighting Products Contract #290-08

Comments: Sales tax not included, if applicable.

Electronic Signature by: Stephen Nelson

Stephen Nelson  
 X-TRA Light MFG.

Acceptance of proposal  
 and authorization to Proceed

*Thank you for your Business!*