

IESO Prescriptive Measures and Assumptions List June 2023

Overview

The IESO Prescriptive Measures and Assumptions List (“MAL”) is the collection of electricity conservation measures in the current Save on Energy programs, which present deemed energy and demand savings using prescriptive input assumptions (PIAs). It provides best available information and consistent conservation program assumptions needed to estimate potential gross energy and demand savings which may, in turn, serve as the basis for the design, implementation, and evaluation of conservation and demand side management programs.

Purpose and Scope

Information presented in the MAL is derived and gathered from various sources ranging from previous evaluation studies involving engineering calculations to in-situ (in its original place) metering studies. Data may also be based on studies undertaken in jurisdictions outside Ontario and updated to reflect Ontario conditions.

In addition to gross demand and energy savings, the MAL also includes other useful information about each measure, including effective useful life, and estimated incremental life cycle cost.

Updating the Prescriptive Measures and Assumptions List

Measure-level assumptions are reviewed on an annual basis or as new information becomes available. The IESO has adopted an open, transparent, and flexible approach for reviewing and maintaining its Measures and Assumptions List. Stakeholders and other interested parties may submit new measures or measure revisions to the IESO for considerations by sending an email to **retrofit@ieso.ca**.

Excel version of this MAL or full substantiation of individual measures listed can be requested by sending an e-mail to **evaluations@ieso.ca**.



Disclaimer

The IESO Prescriptive Measures and Assumptions List (“MAL”) is provided solely for informational purposes and based on information currently available to the Independent Electricity System Operator (“IESO”). The IESO expressly disclaims any responsibility or liability for any other use of the information in the MAL or any methods or equipment described. In particular, the information in the MAL is not meant to be relied on to determine or project actual electricity or cost savings, or to calculate progress towards conservation and demand management targets set by the Ontario Energy Board. The IESO does not warrant the accuracy, reliability, completeness or timeliness of any of the information contained in the MAL, including any third party information, and undertakes no obligation to revise or update the MAL. Users of the MAL rely on the information contained therein at their own risk and remain responsible for seeking appropriate legal, technical or other professional advice with regard to their particular circumstances. The IESO and its respective officers, directors, employees, consultants, agents and subcontractors assume no liability or responsibility whatsoever to any person for damages of whatever kind and nature, which may occur or be suffered as a result of the use of the MAL or reliance on the information therein.

How to Use this Workbook

This workbook contains energy conservation measures found under two tabs: Consumer Measures - Energy Affordability Program (EAP) and Business Measures - Energy Retrofit Program (Retrofit)

Below is an explanation of the column headings used in the Worksheet.

Column Heading	Description
END_USE	Shows the general application of the conservation measure (e.g. lighting, space cooling, water heating, etc.).
CONSERVATION_MEASURE_NAME	This is the high efficiency measure that usually involves the installation of equipment or technology that is considered more energy efficient than existing base case installations.
DESCRIPTION	Describes the energy efficient measure by indicating different sizes, capacities, types and efficiency levels available in the market.
BASE_MEASURE	Indicates the equipment or technology to be replaced or describes the baseline scenario.
ASSUMED_ANNUAL_OPERATING_HOURS	Indicates the assumed annual operating hours for the estimation of energy savings.
BASE_CASE_KW	Shows the assumed connected demand wattage of the base case measure.
BASE_CASE_KWH	Indicates the assumed energy consumption of the base case measure. In general, this is estimated from the assumed wattage and annual operating hours.
CONSERVATION_CASE_KW	Shows the assumed connected demand wattage of the energy efficient measure.
CONSERVATION_CASE_KWH	Indicates the assumed energy consumption of the energy efficient measure. In general, this is estimated from the assumed wattage and annual operating hours.

Column Heading	Description
FIRST_YEAR_DEMAND_SAVINGS	Indicates the difference in connected demand wattages of the base and efficient measures over a one year period.
FIRST_YEAR_ENERGY_SAVINGS	Indicates the difference in energy consumption of the base and efficient measures over a one year period.
PEAK_DEMAND_SAVINGS	Indicates the demand savings occurring during summer peak from 1:00 pm to 7:00 pm, Monday to Friday, June, July and August.
EFFECTIVE_USEFUL_LIFE	Shows the assumed effective useful life of the measure in year(s). For lighting, this is estimated based on the effective useful life of lamps and/or ballasts and the annual operating hours.
END_USE_LOAD_PROFILE	Indicates the time-of-use pattern of equipment energy use over a year (8760 hours).
INCREMENTAL_LIFE_CYCLE_COST	Indicates the price differential between the energy efficient measure and baseline measure over the measure's lifetime.



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED ANNUAL OPERATING HOURS	BASE_CASE KW	BASE_CASE KWH	CONSERVATION_C ASE_KW	CONSERVATION_CA SE_KWH	FIRST YEAR DEMAND SAVINGS	FIRST YEAR ENERGY SAVINGS	PEAK DEMAND SAVINGS	EFFECTIVE USEFUL LIFE	END_USE LOAD PROFILE
Lighting	≤11W ENERGY STAR® QUALIFIED LED A SHAPE (60W) (MINIMUM 600 LUMEN OUTPUT)	≤11W ENERGY STAR® Qualified LED A Shape (60W) (minimum 600 Lumen output)	Mixture of incandescent and halogen bulbs based on lumen equivalence.	1095	0.043	47.1	0.009	10.3	0.034	36.8	0.003	14	EM&V-Residential-Lighting_Interior
Lighting	≤14W ENERGY STAR® QUALIFIED LED A SHAPE (75W) (MINIMUM 800 LUMEN OUTPUT)	≤14W ENERGY STAR® Qualified LED A Shape (75W) (minimum 800 Lumen output)	Mixture of incandescent and halogen bulbs based on lumen equivalence.	1095	0.043	47.1	0.010	10.7	0.033	36.4	0.003	14	EM&V-Residential-Lighting_Interior
Lighting	≤16W ENERGY STAR® QUALIFIED LED PAR30 & PAR38 (MINIMUM 600 LUMEN OUTPUT)	≤16W ENERGY STAR® Qualified LED PAR30 & PAR38 (minimum 600 Lumen output)	Mixture of incandescent and halogen bulbs based on lumen equivalence.	986	0.065	64.1	0.014	13.3	0.051	50.7	0.004	14	EM&V-Residential-Lighting_Interior
Lighting	≤23W ENERGY STAR® QUALIFIED LED A SHAPE (100W) (MINIMUM 1600 LUMEN OUTPUT)	≤23W ENERGY STAR® Qualified LED A Shape (100W) (minimum 1600 Lumen output)	Mixture of incandescent and halogen bulbs based on lumen equivalence.	1095	0.072	78.8	0.016	17.5	0.056	61.3	0.004	14	EM&V-Residential-Lighting_Interior
Lighting	≤6W ENERGY STAR® QUALIFIED LED MR 16 / PAR 16 (MINIMUM 250 LUMEN OUTPUT)	≤6W ENERGY STAR® Qualified LED MR 16 / PAR 16 (minimum 250 Lumen output)	Mixture of incandescent and halogen bulbs based on lumen equivalence.	986	0.040	39.4	0.006	5.5	0.034	33.9	0.002	14	EM&V-Residential-Lighting_Interior
Lighting	ENERGY STAR® LED WET LOCATION RATED PAR LAMP ≤ 23 WATT (MINIMUM 1100 LUMEN OUTPUT)	ENERGY STAR® LED Wet Location Rated PAR lamp ≤ 23 Watt (minimum 1100 Lumen output)	Mixture of incandescent and halogen bulbs based on lumen equivalence.	986	0.065	64.1	0.016	16.2	0.049	47.9	0.003	14	EM&V-Residential-Lighting_Interior
Lighting	LED NIGHTLIGHT	LED Nightlight	Incandescent or halogen nightlight	4380	-	30.7	-	1.3	0.000	29.4	0.000	8	CUSTOM-Residential-Residential-Nightlight
Hot Water	EFFICIENT AERATORS	Bathroom - Flow Rate ≤ 3.8 L/min	Electric DHW Aerator with Flow Rate = 8.3 L/min	-	-	62.0	-	28.2	-	33.8	0.003	10	PSP-Consumer-Residential-Domestic_Hot_Water
Hot Water	EFFICIENT AERATORS	Kitchen - Flow Rate ≤ 5.7 L/min	Electric DHW Aerator with Flow Rate = 8.3 L/min	-	-	433.3	-	295.4	-	137.9	0.027	10	PSP-Consumer-Residential-Cooking
Hot Water	EFFICIENT SHOWERHEAD (HANDHELD)	Flow Rate < 4.8 L/min	Electric DHW Showerhead with Flow Rate = 7.57 L/min	-	-	555.1	-	346.9	-	208.2	0.019	10	PSP-Consumer-Residential-Domestic_Hot_Water
Hot Water	EFFICIENT SHOWERHEAD (STANDARD)	Flow Rate < 4.8 L/min	Electric DHW Showerhead with Flow Rate = 7.57 L/min	-	-	555.1	-	416.3	-	138.8	0.013	10	PSP-Consumer-Residential-Domestic_Hot_Water
Hot Water	HOT WATER PIPE WRAP	Per 1' Pipe Wrap (1/2" Pipe)	Electric hot water heater without pipe insulation	8760	-	20.6	-	13.74	-	6.9	0.001	15	PSP-Consumer-Residential-Domestic_Hot_Water
Hot Water	HOT WATER PIPE WRAP	Per 1' Pipe Wrap (3/4" Pipe)	Electric hot water heater without pipe insulation	8760	-	30.8	-	16.01	-	14.8	0.001	15	PSP-Consumer-Residential-Domestic_Hot_Water
Hot Water	WATER HEATER BLANKET	Hot water tank wrap	Electric hot water heater without insulation blanket	8760	-	327.4	-	236.23	-	91.2	0.009	7	PSP-Consumer-Residential-Water_Heater_Blanket
HVAC	ENERGY STAR® DEHUMIDIFIER	Dehumidifier Replacement (ENERGY STAR Qualified 14.2 - 21.2 l/day)	Non-Energy Star® Dehumidifier	-	0.518	844.6	0.369	601.8	0.149	242.8	0.074	12	PSP-Consumer-Residential-Dehumidifiers



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED ANNUAL OPERATING HOURS	BASE_CASE KW	BASE_CASE KWH	CONSERVATION_C ASE_KW	CONSERVATION_CA SE_KWH	FIRST YEAR DEMAND SAVINGS	FIRST YEAR ENERGY SAVINGS	PEAK_DEMAND_S AVINGS	EFFECTIVE_USEFUL LIFE	END_USE LOAD PROFILE
HVAC	ENERGY STAR® DEHUMIDIFIER	Dehumidifier Replacement (ENERGY STAR Qualified 21.3 - 25.4 l/day)	Non-Energy Star® Dehumidifier	-	0.608	992.4	0.486	793.9	0.122	198.5	0.061	12	PSP-Consumer-Residential-Dehumidifiers
HVAC	ENERGY STAR® DEHUMIDIFIER	Dehumidifier Replacement (ENERGY STAR Qualified 25.5 - 35.5 l/day)	Non-Energy Star® Dehumidifier	-	0.748	1220.0	0.635	1037.0	0.113	183.0	0.056	12	PSP-Consumer-Residential-Dehumidifiers
HVAC	ENERGY STAR® ROOM AIR CONDITIONER	Room Air Conditioner Replacement (ENERGY STAR Qualified 10,000 - 12,000 BTU/hr)	Non-Energy Star® Room Air Conditioner	-	1.394	319.4	1.059	242.7	0.335	76.7	0.047	12	EM&V-Residential-AC_Cooling
HVAC	ENERGY STAR® ROOM AIR CONDITIONER	Room Air Conditioner Replacement (ENERGY STAR Qualified 6,000 - 7,999 BTU/hr)	Non-Energy Star® Room Air Conditioner	-	0.674	154.5	0.493	112.9	0.181	41.6	0.026	12	EM&V-Residential-AC_Cooling
HVAC	ENERGY STAR® ROOM AIR CONDITIONER	Room Air Conditioner Replacement (ENERGY STAR Qualified 8,000 - 9,999 BTU/hr)	Non-Energy Star® Room Air Conditioner	-	1.039	238.4	0.786	179.5	0.253	58.9	0.036	12	EM&V-Residential-AC_Cooling
HVAC Control	PROGRAMMABLE THERMOSTAT	Line-voltage Programmable Thermostat - Baseboard Heater	Non-programmable thermostat	-	-	-	-	-	-	139.7	0.001	11	EM&V-Residential-Electric_Heating
HVAC Control	LOW VOLTAGE SMART THERMOSTATS	Low-voltage Smart Thermostat – Electric Furnace w/ or w/o CAC	Conventional manual and programmable thermostat for Electric Furnace w/ or w/o CAC	-	-	-	-	-	-	838.7	0.002	11	PSP-Consumer-Residential-Forced_Air_Central_Heating
HVAC Control	LOW VOLTAGE SMART THERMOSTATS	Low-voltage Smart Thermostat requiring C wire connection – Electric Furnace w/ or w/o CAC	Conventional manual and programmable thermostat for Electric Furnace w/ or w/o CAC	-	-	-	-	-	-	838.7	0.002	11	PSP-Consumer-Residential-Forced_Air_Central_Heating
HVAC Control	LINE VOLTAGE SMART THERMOSTATS	Line Voltage Smart Thermostat – Baseboard Heater	Electric baseboard heating with non-programmable or programmable thermostat	-	-	-	-	-	-	186.3	0.001	11	EM&V-Residential-Electric_Heating
Appliances	COMPACT CHEST FREEZER	Compact Chest Freezer Replacement (ENERGY STAR Qualified < 7.75 cu ft)	Existing standard residential compact freezer manufactured on or before September 15 2014	8760	0.030	262.5	0.026	227.2	0.004	35.3	0.005	11	PSP-Consumer-Residential-Freezers
Appliances	ENERGY STAR® FREEZER	Chest Freezer Replacement (ENERGY STAR Qualified 7.75 ≤ and < 12.0 cu ft)	Standard Freezer	8760	0.052	451.2	0.040	353.2	0.011	98.0	0.013	12	PSP-Consumer-Residential-Freezers
Appliances	ENERGY STAR® FREEZER	Chest Freezer Replacement (ENERGY STAR Qualified 12 ≤ and < 14.5 cu ft)	Standard Freezer	8760	0.056	492.4	0.044	387.6	0.012	104.9	0.014	12	PSP-Consumer-Residential-Freezers
Appliances	ENERGY STAR® FREEZER	Chest Freezer Replacement (ENERGY STAR Qualified 14.5 ≤ and < 16.0 cu ft)	Standard Freezer	8760	0.056	490.1	0.044	387.1	0.012	103.0	0.014	12	PSP-Consumer-Residential-Freezers
Appliances	ENERGY STAR® REFRIGERATOR	Refrigerator Replacement (ENERGY STAR Qualified 10.0 ≤ and < 12.5 cu ft)	Standard Refrigerator	8760	0.058	511.8	0.038	331.2	0.021	180.7	0.023	12	PSP-Consumer-Residential-Refrigerators
Appliances	ENERGY STAR® REFRIGERATOR	Refrigerator Replacement (ENERGY STAR Qualified 12.5 ≤ and < 15.5 cu ft)	Standard Refrigerator	8760	0.069	600.4	0.051	444.1	0.018	156.4	0.020	12	PSP-Consumer-Residential-Refrigerators

END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED ANNUAL OPERATING HOURS	BASE_CASE KW	BASE_CASE KWH	CONSERVATION_C ASE_KW	CONSERVATION_CA SE_KWH	FIRST YEAR DEMAND SAVINGS	FIRST YEAR ENERGY_S AVINGS	PEAK_DEMAND_S AVINGS	EFFECTIVE_USEFUL LIFE	END_USE LOAD PROFILE
Appliances	ENERGY STAR® REFRIGERATOR	Refrigerator Replacement (ENERGY STAR Qualified 15.5 ≤ and < 17.0 cu ft)	Standard Refrigerator	8760	0.069	606.8	0.046	401.7	0.023	205.1	0.026	12	PSP-Consumer-Residential-Refrigerators
Appliances	ENERGY STAR® REFRIGERATOR	Refrigerator Replacement (ENERGY STAR Qualified 17.0 ≤ and < 18.5 cu ft)	Standard Refrigerator	8760	0.070	610.1	0.045	391.3	0.025	218.8	0.028	12	PSP-Consumer-Residential-Refrigerators
Miscellaneous	INDOOR CLOTHES DRYING RACK/OUTDOOR RETRACTABLE CLOTHESLINE KIT	Indoor Clothes Drying Rack/Outdoor Retractable Clothesline Kit	Conventional electric clothes dryer with average 3.3 loads per week	-	-	500.0	-	411.8	-	88.2	0.012	12	PSP-Consumer-Residential-Clothes_Dryers
Miscellaneous	HEAVY DUTY PLUG-IN TIMERS	Car Block Heater Timer	No timer on the car block heater	-	0.511	377.3	0.511	138.2	0.000	239.1	0.000	15	EM&V-Residential-Car_Block_Heater_North_Ontario
Miscellaneous	TIER 2 ADVANCED POWER STRIP	Home entertainment and office equipment controlled with Tier 2 Advance Power Strips (APS)	Home entertainment and office equipment with no power strip (wall socket) or standard power strip	-	-	-	-	-	-	234.0	0.007	7	PSP-Consumer-Residential-Power_Bar
Weatherization	AIR SEALING	Air leakage reduction after air sealing and incentive calculated based on floor area	Electrical heating without cooling	-	-	-	-	-	-	HOT2000 Modelling	kW=kWH*SPDF	20	EM&V-Residential-Electric_Heating
Weatherization	AIR SEALING	Air leakage reduction after air sealing and incentive calculated based on floor area	Electrical heating with cooling	-	-	-	-	-	-	HOT2000 Modelling	kW=kWH*SPDF	20	EM&V-Residential-Electric_Heating_and_Cooling
Weatherization	ATTIC INSULATION	Minimum R50 from new attic insulation and incentive calculated based on area of insulation installed	Electrical heating without cooling/existing attic insulation	-	-	-	-	-	-	HOT2000 Modelling	kW=kWH*SPDF	20	EM&V-Residential-Electric_Heating
Weatherization	ATTIC INSULATION	Minimum R50 from new attic insulation and incentive calculated based on area of insulation installed	Electrical heating with cooling/existing attic insulation	-	-	-	-	-	-	HOT2000 Modelling	kW=kWH*SPDF	20	EM&V-Residential-Electric_Heating_and_Cooling
Weatherization	BASEMENT INSULATION	Minimum R20 from new basement insulation and incentive calculated based on are of insulation installed	Electrical heating without cooling/existing basement insulation	-	-	-	-	-	-	HOT2000 Modelling	kW=kWH*SPDF	20	EM&V-Residential-Electric_Heating
Weatherization	BASEMENT INSULATION	Minimum R20 from new basement insulation and incentive calculated based on are of insulation installed	Electrical heating with cooling/existing basement insulation	-	-	-	-	-	-	HOT2000 Modelling	kW=kWH*SPDF	20	EM&V-Residential-Electric_Heating_and_Cooling
Weatherization	WALL INSULATION	Minimum R20 from new wall insulation and incentive calculated based on area of insulation installed	Electrical heating without cooling/existing wall insulation	-	-	-	-	-	-	HOT2000 Modelling	kW=kWH*SPDF	20	EM&V-Residential-Electric_Heating
Weatherization	WALL INSULATION	Minimum R20 from new wall insulation and incentive calculated based on area of insulation installed	Electrical heating with cooling/existing wall insulation	-	-	-	-	-	-	HOT2000 Modelling	kW=kWH*SPDF	20	EM&V-Residential-Electric_Heating_and_Cooling



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPERATING_HOURS	BASE_CASE_KW	BASE_CASE_KWH	CONSERVATION_CASE_KW	CONSERVATION_CASE_KWH	FIRST_YEAR_DEMAND_SAVINGS	FIRST_YEAR_ENERGY_SAVINGS	PEAK_DEMAND_SAVINGS	EFFECTIVE_USEFUL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE_COST
Compressed Air	ZERO LOSS DRAIN	Zero Loss Drain	Time controlled moisture drain	3920					0.308	1206	0.138	10	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	253.16
Electric Auxiliary	VARIABLE SPEED DOMESTIC COLD WATER BOOSTER PUMP SYSTEM	Replacement of a Constant Speed Domestic Cold Water Booster Pump System with a Variable Speed Domestic Cold Water Booster Pump System	Constant Speed Domestic Cold Water Booster Pump System						$kW=HP*0.12433$ kW/HP	$kWh=HP*4414$ kWh/HP	$kW=kWh *SPDF$	15	Custom-Business-Cold Water_Booster_Pumps	\$1672/HP
Electric Auxiliary	VARIABLE FREQUENCY DRIVE (VFD)	Motor Size: 1 HP, 66% Load Factor	No VFD installed, Motor is at 75% Load Factor	4000					0.250	1007	0.112	15	EM&V-Commercial-HVAC_Fans_Pumps	2255.00
Electric Auxiliary	VARIABLE FREQUENCY DRIVE (VFD)	Motor Size: 1.5 HP, 66% Load Factor	No VFD installed, Motor is at 75% Load Factor	4000					0.370	1493	0.166	15	EM&V-Commercial-HVAC_Fans_Pumps	2294.00
Electric Auxiliary	VARIABLE FREQUENCY DRIVE (VFD)	Motor Size: 2 HP, 66% Load Factor	No VFD installed, Motor is at 75% Load Factor	4000					0.500	1991	0.221	15	EM&V-Commercial-HVAC_Fans_Pumps	2332.00
Electric Auxiliary	VARIABLE FREQUENCY DRIVE (VFD)	Motor Size: 3 HP, 66% Load Factor	No VFD installed, Motor is at 75% Load Factor	4000					0.720	2887	0.321	15	EM&V-Commercial-HVAC_Fans_Pumps	2409.00
Electric Auxiliary	VARIABLE FREQUENCY DRIVE (VFD)	Motor Size: 5 HP, 66% Load Factor	No VFD installed, Motor is at 75% Load Factor	4000					1.200	4811	0.534	15	EM&V-Commercial-HVAC_Fans_Pumps	2417.00
Electric Auxiliary	VARIABLE FREQUENCY DRIVE (VFD)	Motor Size: 7.5 HP, 66% Load Factor	No VFD installed, Motor is at 75% Load Factor	4000					1.770	7098	0.788	15	EM&V-Commercial-HVAC_Fans_Pumps	2755.00
Electric Auxiliary	VARIABLE FREQUENCY DRIVE (VFD)	Motor Size: 10 HP, 66% Load Factor	No VFD installed, Motor is at 75% Load Factor	4000					2.350	9391	1.043	15	EM&V-Commercial-HVAC_Fans_Pumps	2947.00
Electric Auxiliary	VARIABLE FREQUENCY DRIVE (VFD)	Motor Size: 15 HP, 66% Load Factor	No VFD installed, Motor is at 75% Load Factor	4000					3.470	13890	1.542	15	EM&V-Commercial-HVAC_Fans_Pumps	3335.00
Electric Auxiliary	VARIABLE FREQUENCY DRIVE (VFD)	Motor Size: 20 HP, 66% Load Factor	No VFD installed, Motor is at 75% Load Factor	4000					4.630	18520	2.056	15	EM&V-Commercial-HVAC_Fans_Pumps	3788.00
Electric Auxiliary	VARIABLE FREQUENCY DRIVE (VFD)	Motor Size: 25 HP, 66% Load Factor	No VFD installed, Motor is at 75% Load Factor	4000					5.750	23002	2.554	15	EM&V-Commercial-HVAC_Fans_Pumps	4242.00
Electric Auxiliary	VARIABLE FREQUENCY DRIVE (VFD)	Motor Size: 30 HP, 66% Load Factor	No VFD installed, Motor is at 75% Load Factor	4000					6.860	27455	3.048	15	EM&V-Commercial-HVAC_Fans_Pumps	4484.00
Electric Auxiliary	VARIABLE FREQUENCY DRIVE (VFD)	Motor Size: 40 HP, 66% Load Factor	No VFD installed, Motor is at 75% Load Factor	4000					9.150	36607	4.064	15	EM&V-Commercial-HVAC_Fans_Pumps	5252.00
Electric Auxiliary	VARIABLE FREQUENCY DRIVE (VFD)	Motor Size: 50 HP, 66% Load Factor	No VFD installed, Motor is at 75% Load Factor	4000					11.390	45565	5.059	15	EM&V-Commercial-HVAC_Fans_Pumps	6136.00
Electric Auxiliary	VARIABLE FREQUENCY DRIVE (VFD)	Motor Size: 60 HP, 66% Load Factor	No VFD installed, Motor is at 75% Load Factor	4000					13.600	54390	6.039	15	EM&V-Commercial-HVAC_Fans_Pumps	6789.00
Electric Auxiliary	VARIABLE FREQUENCY DRIVE (VFD)	Motor Size: 75 HP, 66% Load Factor	No VFD installed, Motor is at 75% Load Factor	4000					17	67988	7.548	15	EM&V-Commercial-HVAC_Fans_Pumps	7826.00
Electric Auxiliary	VARIABLE FREQUENCY DRIVE (VFD)	Motor Size: 100 HP, 66% Load Factor	No VFD installed, Motor is at 75% Load Factor	4000					22.570	90271	10.022	15	EM&V-Commercial-HVAC_Fans_Pumps	9863.00
Electric Auxiliary	VARIABLE FREQUENCY DRIVE (VFD)	Motor Size: 125 HP, 66% Load Factor	No VFD Installed, Motor is at 75% Load Factor	4000					28.210	112840	12.530	15	EM&V-Commercial-HVAC_Fans_Pumps	11780.00
Electric Auxiliary	VARIABLE FREQUENCY DRIVE (VFD)	Motor Size: 150 HP, 66% Load Factor	No VFD Installed, Motor is at 75% Load Factor	4000					33.710	134840	14.970	15	EM&V-Commercial-HVAC_Fans_Pumps	13700.00
Electric Auxiliary	VARIABLE FREQUENCY DRIVE (VFD)	Motor Size: 200 HP, 66% Load Factor	No VFD Installed, Motor is at 75% Load Factor	4000					44.950	179790	19.960	15	EM&V-Commercial-HVAC_Fans_Pumps	17540.00
Electric Auxiliary	VARIABLE FREQUENCY DRIVE (VFD)	Motor Size: 250 HP, 66% Load Factor	No VFD Installed, Motor is at 75% Load Factor	4000					56.200	225250	24.970	15	EM&V-Commercial-HVAC_Fans_Pumps	21379.00



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPERATING_HOURS	BASE_CASE_KW	BASE_CASE_KWH	CONSERVATION_CASE_KW	CONSERVATION_CASE_KWH	FIRST_YEAR_DEMAND_SAVINGS	FIRST_YEAR_ENERGY_SAVINGS	PEAK_DEMAND_SAVINGS	EFFECTIVE_USEFUL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE_COST
Electric Auxiliary	VARIABLE FREQUENCY DRIVE (VFD)	Motor Size: 300 HP, 66% Load Factor	No VFD Installed, Motor is at 75% Load Factor	4000					67.420	270300	29.960	15	EM&V-Commercial-HVAC_Fans_Pumps	25217.00
Space Cooling	UNITARY AIR-CONDITIONING UNIT	Single Package With Economizer >= 3.0 to < 5.4 tons, All Heating Type, 12.5 EER	Single Package With Economizer >= 3.0 to < 5.4 tons, All Heating Type, 13.0 SEER (Approximately 11.14 EER)	600					0.493	295.928	0.217	15	EM&V-Commercial-Cooling	357.21
Space Cooling	UNITARY AIR-CONDITIONING UNIT	Split System >= 3.0 to < 5.4 tons, All Heating Type, 12.5 EER	Split System >= 3.0 to < 5.4 tons, All Heating Type, 13.0 SEER (Approximately 11.14 EER)	600					0.493	295.928	0.217	15	EM&V-Commercial-Cooling	357.21
Space Cooling	UNITARY AIR-CONDITIONING UNIT	Single Package With Economizer >= 5.4 to <= 7.5 tons, Electric Resistance, 12.2 EER	Single Package With Economizer >= 5.4 to <= 7.5 tons, Electric Resistance, 11.2 EER	600					0.567	340.310	0.250	15	EM&V-Commercial-Cooling	548.57
Space Cooling	UNITARY AIR-CONDITIONING UNIT	Split System >= 5.4 to <= 7.5 tons, Electric Resistance, 12.2 EER	Split System >= 5.4 to <= 7.5 tons, Electric Resistance, 11.2 EER	600					0.567	340.310	0.250	15	EM&V-Commercial-Cooling	548.57
Space Cooling	UNITARY AIR-CONDITIONING UNIT	Single Package With Economizer >= 5.4 to <= 7.5 tons, All Other Heating, 12.0 EER	Single Package With Economizer >= 5.4 to <= 7.5 tons, All Other Heating, 11 EER	600					0.587	352.273	0.258	15	EM&V-Commercial-Cooling	548.57
Space Cooling	UNITARY AIR-CONDITIONING UNIT	Split System >= 5.4 to <= 7.5 tons, All Other Heating, 12.0 EER	Split System >= 5.4 to <= 7.5 tons, All Other Heating, 11 EER	600					0.587	352.273	0.258	15	EM&V-Commercial-Cooling	548.57
Space Cooling	UNITARY AIR-CONDITIONING UNIT	Split System/Single Package >= 7.5 to < 11.25 tons, Electric Resistance, 12.2 EER	Split System/Single Package >= 7.5 to < 11.25 tons, Electric Resistance, 11.2 EER	600					0.823	493.999	0.362	15	EM&V-Commercial-Cooling	797.34
Space Cooling	UNITARY AIR-CONDITIONING UNIT	Split System/Single Package >= 7.5 to < 11.25 tons, All Other, 12.0 EER	Split System/Single Package >= 7.5 to < 11.25 tons, All Other, 11 EER	600					0.852	511.364	0.375	15	EM&V-Commercial-Cooling	797.34
Space Cooling	UNITARY AIR-CONDITIONING UNIT	Split System/Single Package >= 11.25 to < 20 tons, Electric Resistance, 12.2 EER	Split System/Single Package >= 11.25 to < 20 tons, Electric Resistance, 11 EER	600					1.677	1005.961	0.738	15	EM&V-Commercial-Cooling	1328.91
Space Cooling	UNITARY AIR-CONDITIONING UNIT	Split System/Single Package >= 11.25 to < 20 tons, All Other, 12.0 EER	Split System/Single Package >= 11.25 to < 20 tons, All Other, 10.8 EER	600					1.736	1041.667	0.764	15	EM&V-Commercial-Cooling	1328.91
Space Cooling	UNITARY AIR-CONDITIONING UNIT	Split System/Single Package >= 20 to < 63 tons, Electric Resistance, 10.8 EER	Split System/Single Package >= 20 to < 63 tons, Electric Resistance, 10 EER	600					3.704	2222.222	1.629	15	EM&V-Commercial-Cooling	1064.47
Space Cooling	UNITARY AIR-CONDITIONING UNIT	Split System/Single Package >= 20 to < 63 tons, All Other, 10.6 EER	Split System/Single Package >= 20 to < 63 tons, All Other, 9.8 EER	600					3.851	2310.358	1.694	15	EM&V-Commercial-Cooling	1064.47
Space Cooling	UNITARY AIR-CONDITIONING UNIT	Split System/Single Package > 63 tons, Electric Resistance, 10.4 EER	Split System/Single Package > 63 tons, Electric Resistance, 9.7 EER	600					5.274	3164.155	2.320	15	EM&V-Commercial-Cooling	1615.95
Space Cooling	UNITARY AIR-CONDITIONING UNIT	Split System/Single Package > 63 tons, All Other, 10.2 EER	Split System/Single Package > 63 tons, All Other, 9.5 EER	600					5.490	3294.118	2.415	15	EM&V-Commercial-Cooling	1615.95
Space Cooling and Heating	UNITARY AIR SOURCE HEAT PUMP (ASHP) - SINGLE PACKAGE AND SPLIT SYSTEM	Single Package >=3.0 to <5.4 Tons, All Heating Type, 12 EER	Single Package With Economizer >=3.0 to <5.4 tons, All Heating Type, 14 SEER	2650					0.330	2114.741	0.643	15	PSP-Business-Commercial-Space_Cooling_&_Heating	1620.00
Space Cooling and Heating	UNITARY AIR SOURCE HEAT PUMP (ASHP) - SINGLE PACKAGE AND SPLIT SYSTEM	Split System >=3.0 to <5.4 Tons, All Heating Type, 12.5 EER	Split System >=3.0 to <5.4 tons, All Heating Type, 14 SEER	2650					0.330	2114.741	0.643	15	PSP-Business-Commercial-Space_Cooling_&_Heating	1620.00
Space Cooling and Heating	UNITARY AIR SOURCE HEAT PUMP (ASHP) - SINGLE PACKAGE AND SPLIT SYSTEM	Split System/Single Package >=5.4 to <11.25 Tons, All Other, 11.6 EER	Split System/Single Package >=5.4 to <11.25 tons, All Other, 10.8 EER	2650					0.757	1467.240	0.446	15	PSP-Business-Commercial-Space_Cooling_&_Heating	5040.00
Space Cooling and Heating	UNITARY AIR SOURCE HEAT PUMP (ASHP) - SINGLE PACKAGE AND SPLIT SYSTEM	Split System/Single Package >=5.4 to <11.25 Tons, Electric Resistance (or None), 11.8 EER	Split System/Single Package >=5.4 to <11.25 Tons, Electric Resistance, 11.0 EER	2650					0.757	1467.240	0.446	15	PSP-Business-Commercial-Space_Cooling_&_Heating	5040.00
Space Cooling and Heating	UNITARY AIR SOURCE HEAT PUMP (ASHP) - SINGLE PACKAGE AND SPLIT SYSTEM	Split System/Single Package >=11.25 to <20.0 Tons, All Other, 10.7 EER	Split System/Single Package >=11.25 to <20.0 Tons, All Other, 10.4 EER	2650					1.482	2166.192	0.658	15	PSP-Business-Commercial-Space_Cooling_&_Heating	9390.00
Space Cooling and Heating	UNITARY AIR SOURCE HEAT PUMP (ASHP) - SINGLE PACKAGE AND SPLIT SYSTEM	Split System/Single Package >=11.25 to <20.0 Tons, Electric Resistance, 10.9 EER	Split System/Single Package >=11.25 to <20.0 Tons, Electric Resistance, 10.6 EER	2650					1.482	2166.192	0.658	15	PSP-Business-Commercial-Space_Cooling_&_Heating	9390.00
Space Cooling and Heating	UNITARY AIR SOURCE HEAT PUMP (ASHP) - SINGLE PACKAGE AND SPLIT SYSTEM	Split System/Single Package >=20.0 to <63.3 Tons, All Other, 10.1 EER	Split System/Single Package >=20.0 to <=63.3 Tons, All Other, 9.3 EER	2650					4.328	6278.955	1.909	15	PSP-Business-Commercial-Space_Cooling_&_Heating	24990.00



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPERATING_HOURS	BASE_CASE_KW	BASE_CASE_KWH	CONSERVATION_CASE_SE_KW	CONSERVATION_CASE_KWH	FIRST_YEAR_DEMAND_SAVINGS	FIRST_YEAR_ENERGY_SAVINGS	PEAK_DEMAND_SAVINGS	EFFECTIVE_USEFUL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE_COST
Space Cooling and Heating	UNITARY AIR SOURCE HEAT PUMP (ASHP) - SINGLE PACKAGE AND SPLIT SYSTEM	Split System/Single Package >=20.0 to <63.3 Tons, Electric Resistance, 10.3 EER	Split System/Single Package >=20.0 to <=63.3 Tons, Electric Resistance, 9.5 EER	2650					4.328	6278.955	1.909	15	PSP-Business-Commercial-Space_Cooling_&_Heating	24990.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 1 HP, 1200 RPM, 83.5%	TEFC Motor, 1 HP, 1200 RPM, 82.5%	4942	0.678	3351.575	0.670	3311.436	0.008	40.139	0.004	15	EM&V-Commercial-HVAC_Fans_Pumps	421.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 1 HP, 1800 RPM, 86.5%	TEFC Motor, 1 HP, 1800 RPM, 85.5%	4942	0.654	3233.975	0.647	3196.588	0.008	37.387	0.004	15	EM&V-Commercial-HVAC_Fans_Pumps	421.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 1 HP, 3600 RPM, 78%	TEFC Motor, 1 HP, 3600 RPM, 77%	4942	0.727	3590.973	0.717	3544.935	0.009	46.038	0.005	15	EM&V-Commercial-HVAC_Fans_Pumps	421.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 1.5 HP, 1200 RPM, 88.5%	TEFC Motor, 1.5 HP, 1200 RPM, 87.5%	4942	0.970	4794.883	0.959	4740.084	0.011	54.799	0.006	15	EM&V-Commercial-HVAC_Fans_Pumps	417.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 1.5 HP, 1800 RPM, 87.5%	TEFC Motor, 1.5 HP, 1800 RPM, 86.5%	4942	0.970	4794.883	0.959	4740.084	0.011	54.799	0.006	15	EM&V-Commercial-HVAC_Fans_Pumps	417.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 1.5 HP, 3600 RPM, 85%	TEFC Motor, 1.5 HP, 3600 RPM, 84%	4942	0.999	4937.588	0.987	4879.498	0.012	58.089	0.006	15	EM&V-Commercial-HVAC_Fans_Pumps	417.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 2 HP, 1200 RPM, 89.5%	TEFC Motor, 2 HP, 1200 RPM, 88.5%	4942	1.279	6320.112	1.264	6248.698	0.014	71.414	0.008	15	EM&V-Commercial-HVAC_Fans_Pumps	494.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 2 HP, 1800 RPM, 87.5%	TEFC Motor, 2 HP, 1800 RPM, 86.5%	4942	1.294	6393.177	1.279	6320.112	0.015	73.065	0.008	15	EM&V-Commercial-HVAC_Fans_Pumps	494.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 2 HP, 3600 RPM, 86.5%	TEFC Motor, 2 HP, 3600 RPM, 85.5%	4942	1.309	6467.951	1.294	6393.177	0.015	74.774	0.008	15	EM&V-Commercial-HVAC_Fans_Pumps	494.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 3 HP, 1200 RPM, 90.5%	TEFC Motor, 3 HP, 1200 RPM, 89.5%	4942	1.897	9373.047	1.875	9268.321	0.021	104.727	0.012	15	EM&V-Commercial-HVAC_Fans_Pumps	535.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 3 HP, 1800 RPM, 90.5%	TEFC Motor, 3 HP, 1800 RPM, 89.5%	4942	1.875	9268.321	1.855	9165.908	0.021	102.412	0.011	15	EM&V-Commercial-HVAC_Fans_Pumps	535.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 3 HP, 3600 RPM, 87.5%	TEFC Motor, 3 HP, 3600 RPM, 86.5%	4942	1.963	9701.926	1.940	9589.765	0.023	112.161	0.012	15	EM&V-Commercial-HVAC_Fans_Pumps	535.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 5 HP, 1200 RPM, 90.5%	TEFC Motor, 5 HP, 1200 RPM, 89.5%	4942	3.126	15447.201	3.091	15276.514	0.035	170.687	0.019	15	EM&V-Commercial-HVAC_Fans_Pumps	556.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 5 HP, 1800 RPM, 90.5%	TEFC Motor, 5 HP, 1800 RPM, 89.5%	4942	3.126	15447.201	3.091	15276.514	0.035	170.687	0.019	15	EM&V-Commercial-HVAC_Fans_Pumps	556.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 5 HP, 3600 RPM, 89.5%	TEFC Motor, 5 HP, 3600 RPM, 88.5%	4942	3.234	15982.942	3.197	15800.280	0.037	182.662	0.020	15	EM&V-Commercial-HVAC_Fans_Pumps	556.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 7.5 HP, 1200 RPM, 92.0%	TEFC Motor, 7.5 HP, 1200 RPM, 91%	4942	4.652	22990.984	4.601	22738.890	0.051	252.094	0.028	15	EM&V-Commercial-HVAC_Fans_Pumps	869.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 7.5 HP, 1800 RPM, 92.7%	TEFC Motor, 7.5 HP, 1800 RPM, 91.7%	4942	4.611	22788.865	4.561	22541.160	0.050	247.705	0.028	15	EM&V-Commercial-HVAC_Fans_Pumps	869.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 7.5 HP, 3600 RPM, 90.5%	TEFC Motor, 7.5 HP, 3600 RPM, 89.5%	4942	4.742	23432.619	4.689	23170.802	0.053	261.817	0.029	15	EM&V-Commercial-HVAC_Fans_Pumps	869.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 10 HP, 1200 RPM, 92.0%	TEFC Motor, 10 HP, 1200 RPM, 91%	4942	6.101	30153.206	6.036	29827.929	0.066	325.277	0.036	15	EM&V-Commercial-HVAC_Fans_Pumps	1006.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 10 HP, 1800 RPM, 92.7%	TEFC Motor, 10 HP, 1800 RPM, 91.7%	4942	6.101	30153.206	6.036	29827.929	0.066	325.277	0.036	15	EM&V-Commercial-HVAC_Fans_Pumps	1006.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 10 HP, 3600 RPM, 91.2%	TEFC Motor, 10 HP, 3600 RPM, 90.2%	4942	6.251	30894.402	6.182	30553.028	0.069	341.375	0.038	15	EM&V-Commercial-HVAC_Fans_Pumps	1006.00



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPERATING_HOURS	BASE_CASE_KW	BASE_CASE_KWH	CONSERVATION_CASE_SE_KW	CONSERVATION_CASE_KWH	FIRST_YEAR_DEMAND_SAVINGS	FIRST_YEAR_ENERGY_SAVINGS	PEAK_DEMAND_SAVINGS	EFFECTIVE_USEFUL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE_COST
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 15 HP, 1200 RPM, 92.7%	TEFC Motor, 15 HP, 1200 RPM, 91.7%	4942	9.152	45229.809	9.053	44741.893	0.099	487.916	0.054	15	EM&V-Commercial-HVAC_Fans_Pumps	1318.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 15 HP, 1800 RPM, 93.4%	TEFC Motor, 15 HP, 1800 RPM, 92.4%	4942	9.024	44597.565	8.928	44123.122	0.096	474.442	0.053	15	EM&V-Commercial-HVAC_Fans_Pumps	1318.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 15 HP, 3600 RPM, 92.0%	TEFC Motor, 15 HP, 3600 RPM, 91%	4942	9.304	45981.968	9.202	45477.780	0.102	504.188	0.056	15	EM&V-Commercial-HVAC_Fans_Pumps	1318.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 20 HP, 1200 RPM, 92.7%	TEFC Motor, 20 HP, 1200 RPM, 91.7%	4942	12.110	59849.545	11.981	59208.758	0.130	640.787	0.071	15	EM&V-Commercial-HVAC_Fans_Pumps	1607.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 20 HP, 1800 RPM, 94%	TEFC Motor, 20 HP, 1800 RPM, 93%	4942	12.032	59463.419	11.904	58830.830	0.128	632.590	0.070	15	EM&V-Commercial-HVAC_Fans_Pumps	1607.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 20 HP, 3600 RPM, 92%	TEFC Motor, 20 HP, 3600 RPM, 91%	4942	12.297	60770.308	12.163	60109.761	0.134	660.547	0.073	15	EM&V-Commercial-HVAC_Fans_Pumps	1607.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 25 HP, 1200 RPM, 94%	TEFC Motor, 25 HP, 1200 RPM, 93%	4942	15.040	74329.274	14.880	73538.537	0.160	790.737	0.088	15	EM&V-Commercial-HVAC_Fans_Pumps	1968.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 25 HP, 1800 RPM, 94.6%	TEFC Motor, 25 HP, 1800 RPM, 93.6%	4942	14.944	73852.804	14.786	73072.119	0.158	780.685	0.087	15	EM&V-Commercial-HVAC_Fans_Pumps	1968.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 25 HP, 3600 RPM, 92.7%	TEFC Motor, 25 HP, 3600 RPM, 91.7%	4942	15.254	75383.015	15.089	74569.822	0.165	813.193	0.090	15	EM&V-Commercial-HVAC_Fans_Pumps	1968.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 30 HP, 1200 RPM, 94%	TEFC Motor, 30 HP, 1200 RPM, 93%	4942	17.933	88623.365	17.743	87686.543	0.190	936.822	0.104	15	EM&V-Commercial-HVAC_Fans_Pumps	2195.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 30 HP, 1800 RPM, 94.6%	TEFC Motor, 30 HP, 1800 RPM, 93.6%	4942	17.837	88152.465	17.650	87225.521	0.188	926.945	0.103	15	EM&V-Commercial-HVAC_Fans_Pumps	2195.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 30 HP, 3600 RPM, 92.7%	TEFC Motor, 30 HP, 3600 RPM, 91.7%	4942	18.304	90459.618	18.107	89483.786	0.197	975.832	0.108	15	EM&V-Commercial-HVAC_Fans_Pumps	2195.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 40 HP, 1200 RPM, 95.1%	TEFC Motor, 40 HP, 1200 RPM, 94.1%	4942	23.783	117536.621	23.533	116300.694	0.250	1235.927	0.137	15	EM&V-Commercial-HVAC_Fans_Pumps	2834.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 40 HP, 1800 RPM, 95.1%	TEFC Motor, 40 HP, 1800 RPM, 94.1%	4942	23.783	117536.621	23.533	116300.694	0.250	1235.927	0.137	15	EM&V-Commercial-HVAC_Fans_Pumps	2834.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 40 HP, 3600 RPM, 93.4%	TEFC Motor, 40 HP, 3600 RPM, 92.4%	4942	24.221	119699.091	23.961	118417.516	0.259	1281.575	0.142	15	EM&V-Commercial-HVAC_Fans_Pumps	2834.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 50 HP, 1200 RPM, 95.1%	TEFC Motor, 50 HP, 1200 RPM, 94.1%	4942	29.729	146920.776	29.416	145375.868	0.313	1544.908	0.172	15	EM&V-Commercial-HVAC_Fans_Pumps	3201.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 50 HP, 1800 RPM, 95.5%	TEFC Motor, 50 HP, 1800 RPM, 94.5%	4942	29.603	146298.889	29.293	144766.963	0.310	1531.926	0.170	15	EM&V-Commercial-HVAC_Fans_Pumps	3201.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 50 HP, 3600 RPM, 94%	TEFC Motor, 50 HP, 3600 RPM, 93%	4942	30.081	148658.548	29.761	147077.074	0.320	1581.474	0.176	15	EM&V-Commercial-HVAC_Fans_Pumps	3201.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 60 HP, 1200 RPM, 95.5%	TEFC Motor, 60 HP, 1200 RPM, 94.5%	4942	35.524	175558.667	35.152	173720.356	0.372	1838.311	0.204	15	EM&V-Commercial-HVAC_Fans_Pumps	4286.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 60 HP, 1800 RPM, 96%	TEFC Motor, 60 HP, 1800 RPM, 95%	4942	35.337	174634.674	34.969	172815.563	0.368	1819.111	0.202	15	EM&V-Commercial-HVAC_Fans_Pumps	4286.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 60 HP, 3600 RPM, 94.6%	TEFC Motor, 60 HP, 3600 RPM, 93.6%	4942	35.865	177246.731	35.486	175373.087	0.379	1873.644	0.208	15	EM&V-Commercial-HVAC_Fans_Pumps	4286.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 75 HP, 1200 RPM, 95.5%	TEFC Motor, 75 HP, 1200 RPM, 94.5%	4942	44.405	219448.333	43.940	217150.445	0.465	2297.888	0.255	15	EM&V-Commercial-HVAC_Fans_Pumps	5068.00



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPERATING_HOURS	BASE_CASE_KW	BASE_CASE_KWH	CONSERVATION_CASE_SE_KW	CONSERVATION_CASE_KWH	FIRST_YEAR_DEMAND_SAVINGS	FIRST_YEAR_ENERGY_SAVINGS	PEAK_DEMAND_SAVINGS	EFFECTIVE_USEFUL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE_COST
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 75 HP, 1800 RPM, 96.4%	TEFC Motor, 75 HP, 1800 RPM, 95%	4942	44.171	218293.342	43.711	216019.453	0.460	2273.889	0.252	15	EM&V-Commercial-HVAC_Fans_Pumps	5068.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 75 HP, 3600 RPM, 94.6%	TEFC Motor, 75 HP, 3600 RPM, 93.6%	4942	44.832	221558.413	44.358	219216.358	0.474	2342.055	0.260	15	EM&V-Commercial-HVAC_Fans_Pumps	5068.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 100 HP, 1200 RPM, 96%	TEFC Motor, 100 HP, 1200 RPM, 95%	4942	58.895	291057.789	58.281	288025.938	0.613	3031.852	0.337	15	EM&V-Commercial-HVAC_Fans_Pumps	5956.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 100 HP, 1800 RPM, 96.4%	TEFC Motor, 100 HP, 1800 RPM, 95.4%	4942	58.648	289837.421	58.039	286830.809	0.608	3006.612	0.334	15	EM&V-Commercial-HVAC_Fans_Pumps	5956.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 100 HP, 3600 RPM, 95.1%	TEFC Motor, 100 HP, 3600 RPM, 94.1%	4942	59.776	295411.218	59.144	292288.478	0.632	3122.740	0.347	15	EM&V-Commercial-HVAC_Fans_Pumps	5956.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 125 HP, 1200 RPM, 96%	TEFC Motor, 125 HP, 1200 RPM, 95%	4942	73.618	363822.237	72.852	360032.422	0.767	3789.815	0.421	15	EM&V-Commercial-HVAC_Fans_Pumps	7689.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 125 HP, 1800 RPM, 96.4%	TEFC Motor, 125 HP, 1800 RPM, 95.4%	4942	73.310	362296.777	72.549	358538.511	0.760	3758.265	0.417	15	EM&V-Commercial-HVAC_Fans_Pumps	7689.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 125 HP, 3600 RPM, 96%	TEFC Motor, 125 HP, 3600 RPM, 95%	4942	74.323	367301.939	73.541	363439.669	0.782	3862.271	0.429	15	EM&V-Commercial-HVAC_Fans_Pumps	7689.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 150 HP, 1200 RPM, 96.8%	TEFC Motor, 150 HP, 1200 RPM, 95.8%	4942	87.972	434756.132	87.059	430246.214	0.913	4509.918	0.501	15	EM&V-Commercial-HVAC_Fans_Pumps	8023.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 150 HP, 1800 RPM, 96.8%	TEFC Motor, 150 HP, 1800 RPM, 95.8%	4942	87.604	432940.866	86.699	428468.337	0.905	4472.530	0.497	15	EM&V-Commercial-HVAC_Fans_Pumps	8023.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 150 HP, 3600 RPM, 96%	TEFC Motor, 150 HP, 3600 RPM, 95%	4942	89.187	440762.327	88.249	436127.603	0.938	4634.725	0.515	15	EM&V-Commercial-HVAC_Fans_Pumps	8023.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 200 HP, 1200 RPM, 96.8%	TEFC Motor, 200 HP, 1200 RPM, 95.8%	4942	117.296	579674.843	116.079	573661.618	1.217	6013.225	0.668	15	EM&V-Commercial-HVAC_Fans_Pumps	9924.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 200 HP, 1800 RPM, 97.2%	TEFC Motor, 200 HP, 1800 RPM, 96.2%	4942	116.806	577254.489	115.599	571291.116	1.207	5963.373	0.662	15	EM&V-Commercial-HVAC_Fans_Pumps	9924.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 200 HP, 3600 RPM, 96.4%	TEFC Motor, 200 HP, 3600 RPM, 95.4%	4942	117.789	582115.579	116.563	576051.875	1.227	6063.704	0.673	15	EM&V-Commercial-HVAC_Fans_Pumps	9924.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 250 HP, 1200 RPM, 96.8%	TEFC Motor, 250 HP, 1200 RPM, 95.8%	4942	146.426	585702.479	147.954	591816.284	1.529	6114	0.679	15	EM&V-Commercial-HVAC_Fans_Pumps	10971.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 250 HP, 1800 RPM, 97.2%	TEFC Motor, 250 HP, 1800 RPM, 96.2%	4942	145.823	583292.181	147.339	589355.509	1.516	6063	0.673	15	EM&V-Commercial-HVAC_Fans_Pumps	10971.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 250 HP, 3600 RPM, 96.8%	TEFC Motor, 250 HP, 3600 RPM, 95.8%	4942	146.426	585702.479	147.954	591816.284	1.529	6114	0.679	15	EM&V-Commercial-HVAC_Fans_Pumps	10971.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 300 HP, 1200 RPM, 96.8%	TEFC Motor, 300 HP, 1200 RPM, 95.8%	4942	175.711	702842.975	177.545	710179.541	1.834	7337	0.815	15	EM&V-Commercial-HVAC_Fans_Pumps	11513.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 300 HP, 1800 RPM, 97.2%	TEFC Motor, 300 HP, 1800 RPM, 96.2%	4942	174.988	699950.617	176.807	707226.611	1.819	7276	0.808	15	EM&V-Commercial-HVAC_Fans_Pumps	11513.00
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 300 HP, 3600 RPM, 96.8%	TEFC Motor, 300 HP, 3600 RPM, 95.8%	4942	175.711	702842.975	177.545	710179.541	1.834	7337	0.815	15	EM&V-Commercial-HVAC_Fans_Pumps	11513.00
Agribusiness	SOLAR HOT WATER COLLECTOR FOR DAIRY FARMS	Solar hot water collector to be used with electric hot water heater	Standard electric hot water heater							9948	1.104	15	EM&V-Commercial-HVAC_Fans_Pumps	9880.00
Agribusiness	SINGLE CREEP HEAT PAD	Up to 100W maximum	175W Heat Lamp	6900	0.175	1207.500	0.085	586.500	0.090	621	0.000	10	EM&V-Commercial-Creep_Heat_Pad	70.00



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPERATING_HOURS	BASE_CASE_KW	BASE_CASE_KWH	CONSERVATION_CASE_SE_KW	CONSERVATION_CASE_KWH	FIRST_YEAR_DEMAND_SAVINGS	FIRST_YEAR_ENERGY_SAVINGS	PEAK_DEMAND_SAVINGS	EFFECTIVE_USEFUL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE_COST
Space Cooling and Heating	ROOM AIR CONDITIONERS	8000 to 13999 Btu/h and CEER >= 12.0	8000 to 13999 Btu/h and CEER >= 10.9	200					0.137	27.455	0.019	10	EM&V-Commercial-Cooling	25.00
Space Cooling and Heating	ROOM AIR CONDITIONERS	14000 to 19999 Btu/h and CEER >= 11.8	14000 to 19999 Btu/h and CEER >= 10.7	200					0.212	42.377	0.030	10	EM&V-Commercial-Cooling	25.00
Space Cooling and Heating	ROOM AIR CONDITIONERS	20000 to 27999 Btu/h and CEER >= 10.3	20000 to 27999 Btu/h and CEER >= 9.4	200					0.259	51.351	0.036	10	EM&V-Commercial-Cooling	25.00
Space Cooling and Heating	ROOM AIR CONDITIONERS	<8,000 Btu/h and CEER >= 12.1	<8,000 Btu/h and CEER >= 11.0	200					0.080	15.899	0.011	10	EM&V-Commercial-Cooling	25.00
Space Cooling and Heating	ROOM AIR CONDITIONERS	>=28000 Btu/h and CEER >= 9.9	>=28000 Btu/h and CEER >= 9.0	200					0.299	59.714	0.042	10	EM&V-Commercial-Cooling	25.00
Compressed Air	REGENERATIVE DRYER WITH DEWPOINT CONTROL	0 to <200 CFM	Regenerative Dryer with Timer Controlled Regeneration	3920					0.000	6634.800	0.758	15	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	6623.00
Compressed Air	REGENERATIVE DRYER WITH DEWPOINT CONTROL	>=200 to <400 CFM	Regenerative Dryer with Timer Controlled Regeneration	3920					0.000	16587	1.894	15	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	6623.00
Compressed Air	REGENERATIVE DRYER WITH DEWPOINT CONTROL	>=400 to <750 CFM	Regenerative Dryer with Timer Controlled Regeneration	3920					0.000	33174	3.789	15	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	6623.00
Refrigeration	REFRIGERATION COMPRESSORS	High-Efficiency Discus Compressors	Non High-Efficiency Discus or Scroll Compressor in a Refrigeration System	5858					$\Delta kW = HP * 590 / 5858$	$\Delta kWh = HP * 590$	$\Delta kW = \Delta kWh * SPDF$	15	PSP-Business-Commercial-Refrigerated_Display_Case_Food_Retail	\$ = HP * \$75 per HP
Refrigeration	REFRIGERATION COMPRESSORS	High-Efficiency Scroll Compressors	Non High-Efficiency Discus or Scroll Compressor in a Refrigeration System	5858					$\Delta kW = HP * 334.33 / 5858$	$\Delta kWh = HP * 334.33$	$\Delta kW = \Delta kWh * SPDF$	15	PSP-Business-Commercial-Refrigerated_Display_Case_Food_Retail	\$ = HP * \$60 per HP
Lighting - Refrigeration	REFRIGERATED DISPLAY CASE LED FIXTURE - VERTICAL INSTALLATION	< 30W Nominal 48"-72"	Average of 4'-6" T8 (32W, 40W, 44W, 46W, 55W, 66W)	6074	0.041	249.034	0.029	176.146	0.012	72.888	0.014	8	PSP-Business-Food_Retail-Lighting_Interior_General	230.48
Lighting - Refrigeration	REFRIGERATED DISPLAY CASE LED FIXTURE - HORIZONTAL (UNDERSHELF) INSTALLATION	< 13W Nominal 24"-48"	Average of 2'-4" T8 (17W, 25W, 32W)	6074	0.026	157.924	0.012	72.888	0.014	85.036	0.016	8	PSP-Business-Food_Retail-Lighting_Interior_General	236.42
Chillers	PROCESS CHILLER-WATER COOLED POSITIVE DISPLACEMENT	<75 Tons, <=0.750 kW/Ton FL	<75 Tons, <=0.750 kW/Ton FL	5700					$kW = TONS * \Delta FL$	$kWh = TONS * \Delta FL * EFLH$	$kW = kWh * SPDF$	20	EM&V-Commercial-Cooling	\$400/Ton
Chillers	PROCESS CHILLER-WATER COOLED POSITIVE DISPLACEMENT	>=75 Tons and <150 Tons, <=0.720 kW/Ton FL	>=75 Tons and <150 Tons, <=0.720 kW/Ton FL	5700					$kW = TONS * \Delta FL$	$kWh = TONS * \Delta FL * EFLH$	$kW = kWh * SPDF$	20	EM&V-Commercial-Cooling	\$400/Ton
Chillers	PROCESS CHILLER-WATER COOLED POSITIVE DISPLACEMENT	>=150 Tons and <300 Tons, <=0.660 kW/Ton FL	>=150 Tons and <300 Tons, <=0.660 kW/Ton FL	5700					$kW = TONS * \Delta FL$	$kWh = TONS * \Delta FL * EFLH$	$kW = kWh * SPDF$	20	EM&V-Commercial-Cooling	\$400/Ton
Chillers	PROCESS CHILLER-WATER COOLED POSITIVE DISPLACEMENT	>=300 Tons and <600 Tons, <=0.610 kW/Ton FL	>=300 Tons and <600 Tons, <=0.610 kW/Ton FL	5700					$kW = TONS * \Delta FL$	$kWh = TONS * \Delta FL * EFLH$	$kW = kWh * SPDF$	20	EM&V-Commercial-Cooling	\$400/Ton
Chillers	PROCESS CHILLER-WATER COOLED POSITIVE DISPLACEMENT	>=600 Tons, <=0.560 kW/Ton FL	>=600 Tons, <=0.560 kW/Ton FL	5700					$kW = TONS * \Delta FL$	$kWh = TONS * \Delta FL * EFLH$	$kW = kWh * SPDF$	20	EM&V-Commercial-Cooling	\$400/Ton
Chillers	PROCESS CHILLER-WATER COOLED CENTRIFUGAL	<75 Tons, <=0.610 kW/Ton FL	<75 Tons, <=0.610 kW/Ton FL	5700					$kW = TONS * \Delta FL$	$kWh = TONS * \Delta FL * EFLH$	$kW = kWh * SPDF$	20	EM&V-Commercial-Cooling	\$400/Ton
Chillers	PROCESS CHILLER-WATER COOLED CENTRIFUGAL	>=75 Tons and <150 Tons, <=0.610 kW/Ton FL	>=75 Tons and <150 Tons, <=0.610 kW/Ton FL	5700					$kW = TONS * \Delta FL$	$kWh = TONS * \Delta FL * EFLH$	$kW = kWh * SPDF$	20	EM&V-Commercial-Cooling	\$400/Ton
Chillers	PROCESS CHILLER-WATER COOLED CENTRIFUGAL	>=150 Tons and <300 Tons, <=0.560 kW/Ton FL	>=150 Tons and <300 Tons, <=0.560 kW/Ton FL	5700					$kW = TONS * \Delta FL$	$kWh = TONS * \Delta FL * EFLH$	$kW = kWh * SPDF$	20	EM&V-Commercial-Cooling	\$400/Ton
Chillers	PROCESS CHILLER-WATER COOLED CENTRIFUGAL	>=300 Tons and <600 Tons, <=0.560 kW/Ton FL	>=300 Tons and <600 Tons, <=0.560 kW/Ton FL	5700					$kW = TONS * \Delta FL$	$kWh = TONS * \Delta FL * EFLH$	$kW = kWh * SPDF$	20	EM&V-Commercial-Cooling	\$400/Ton
Chillers	PROCESS CHILLER-WATER COOLED CENTRIFUGAL	>=600 Tons, <=0.560 kW/Ton FL	>=600 Tons, <=0.560 kW/Ton FL	5700					$kW = TONS * \Delta FL$	$kWh = TONS * \Delta FL * EFLH$	$kW = kWh * SPDF$	20	EM&V-Commercial-Cooling	\$400/Ton

END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPERATING_HOURS	BASE_CASE_KW	BASE_CASE_KWH	CONSERVATION_CASE_KW	CONSERVATION_CASE_KWH	FIRST_YEAR_DEMAND_SAVINGS	FIRST_YEAR_ENERGY_SAVINGS	PEAK_DEMAND_SAVINGS	EFFECTIVE_USEFUL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE_COST
Compressed Air	PRIMARY AIR RECEIVER TANK	0 to <15 HP (0 to <240 USG)	Primary storage ratio of 1 USG/CFM of oil-flooded load/no load air compressor						0.000	4756.667	0.543	15	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	1247.40
Compressed Air	PRIMARY AIR RECEIVER TANK	>=15 to <25 HP (>=240 to <400 USG)	Primary storage ratio of 1 USG/CFM of oil-flooded load/no load air compressor						0.000	9513.333	1.087	15	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	2494.80
Compressed Air	PRIMARY AIR RECEIVER TANK	>=25 to <35 HP (>=400 to <660 USG)	Primary storage ratio of 1 USG/CFM of oil-flooded load/no load air compressor						0.000	14270	1.630	15	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	3742.20
Compressed Air	PRIMARY AIR RECEIVER TANK	>=35 to <45 HP (>=660 to <1060 USG)	Primary storage ratio of 1 USG/CFM of oil-flooded load/no load air compressor						0.000	19026.667	2.173	15	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	4989.60
Compressed Air	PRIMARY AIR RECEIVER TANK	>=45 to <55 HP (>=800 to <1060 USG)	Primary storage ratio of 1 USG/CFM of oil-flooded load/no load air compressor						0.000	18600	2.124	15	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	6237.00
Compressed Air	PRIMARY AIR RECEIVER TANK	>=55 to <125 HP (>=1060 to <2220 USG)	Primary storage ratio of 1 USG/CFM of oil-flooded load/no load air compressor						0.000	37200	4.249	15	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	12474.00
Compressed Air	PRIMARY AIR RECEIVER TANK	>=125 to <175 HP (>=2200 to <3150 USG)	Primary storage ratio of 1 USG/CFM of oil-flooded load/no load air compressor						0.000	55800	6.373	15	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	18711.00
Compressed Air	PRIMARY AIR RECEIVER TANK	>=175 to <225 HP (>=3150 to <4050 USG)	Primary storage ratio of 1 USG/CFM of oil-flooded load/no load air compressor						0.000	74400	8.498	15	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	24948.00
Agribusiness	PHOTOCELL AND TIMER FOR LIGHTING CONTROL	Timer to regulate on-off lighting schedule	250W Metal Halide (Assume 4 Lamps per Photocell)	6205	1.152	7148.160	1.152	2852.352	0.000	4295.808	0.477	8	EM&V-Commercial-HVAC_Fans_Pumps	78.00
Space Cooling and Heating	PACKAGED TERMINAL HEAT PUMPS (PTHP)	Cooling Capacity <7000 Btu/h and EER >= 13.1 and COP >= 3.6	Cooling Capacity <7000 Btu/h and EER = 11.9 and COP = 3.3	2650					0.064	147.794	0.045	15	PSP-Business-Commercial-Space_Cooling_&_Heating	20.30
Space Cooling and Heating	PACKAGED TERMINAL HEAT PUMPS (PTHP)	Cooling Capacity >15000 Btu/h and EER >= 10.5 and COP >= 3.2	Cooling Capacity >15000 Btu/h and EER = 9.5 and COP =2.9	2650					0.144	368.928	0.112	15	PSP-Business-Commercial-Space_Cooling_&_Heating	43.75
Space Cooling and Heating	PACKAGED TERMINAL HEAT PUMPS (PTHP)	Cooling Capacity >=7000 Btu/h & <15000 Btu/h and EER >= [14.0 - (0.3 x Cap)] x 1.1 and COP >= [3.7 - (0.052 x Cap)] x 1.1	Cooling Capacity >=7000 Btu/h & <15000 Btu/h and EER = 14.0 - (0.3 x Cap) and COP = 3.7 - (0.052 x Cap)	2650					0.093	260.941	0.079	15	PSP-Business-Commercial-Space_Cooling_&_Heating	32.08
Space Cooling and Heating	PACKAGED TERMINAL AIR CONDITIONERS (PTAC)	Cooling Capacity <7000 Btu/h and EER >= 13.1	Cooling Capacity <7000 Btu/h and EER = 11.9	650					0.064	34.759	0.011	15	PSP-Business-Commercial-Space_Cooling_&_Heating	20.30
Space Cooling and Heating	PACKAGED TERMINAL AIR CONDITIONERS (PTAC)	Cooling Capacity >15000 Btu/h and EER >= 10.5	Cooling Capacity >15000 Btu/h and EER = 9.5	650					0.144	93.301	0.028	15	PSP-Business-Commercial-Space_Cooling_&_Heating	43.75
Space Cooling and Heating	PACKAGED TERMINAL AIR CONDITIONERS (PTAC)	Cooling Capacity >=7000 Btu/h & <=15000 Btu/h and EER >= [14.0-(0.3 x Cap)] x 1.1	Cooling Capacity >=7000 Btu/h & <=15000 Btu/h and EER = 14.0-(0.3 x Cap)	650					0.093	60.748	0.018	15	PSP-Business-Commercial-Space_Cooling_&_Heating	32.08
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 1 HP, 1200 RPM, 83.5%	ODP Motor, 1 HP, 1200 RPM, 82.5%	4000	0.678	2712.727	0.670	2680.240	0.008	32.488	0.004	15	EM&V-Commercial-HVAC_Fans_Pumps	421.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 1 HP, 1800 RPM, 86.5%	ODP Motor, 1 HP, 1800 RPM, 85.5%	4000	0.654	2617.544	0.647	2587.283	0.008	30.261	0.003	15	EM&V-Commercial-HVAC_Fans_Pumps	421.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 1 HP, 3600 RPM, 78%	ODP Motor, 1 HP, 3600 RPM, 77%	4000	0.727	2906.494	0.717	2869.231	0.009	37.263	0.004	15	EM&V-Commercial-HVAC_Fans_Pumps	421.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 1.5 HP, 1200 RPM, 87.5%	ODP Motor, 1.5 HP, 1200 RPM, 86.5%	4000	0.970	3880.925	0.959	3836.571	0.011	44.353	0.005	15	EM&V-Commercial-HVAC_Fans_Pumps	417.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 1.5 HP, 1800 RPM, 87.5%	ODP Motor, 1.5 HP, 1800 RPM, 86.5%	4000	0.970	3880.925	0.959	3836.571	0.011	44.353	0.005	15	EM&V-Commercial-HVAC_Fans_Pumps	417.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 1.5 HP, 3600 RPM, 85%	ODP Motor, 1.5 HP, 3600 RPM, 84%	4000	0.999	3996.429	0.987	3949.412	0.012	47.017	0.005	15	EM&V-Commercial-HVAC_Fans_Pumps	417.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 2 HP, 1200 RPM, 88.5%	ODP Motor, 2 HP, 1200 RPM, 87.5%	4000	1.279	5115.429	1.264	5057.627	0.014	57.801	0.006	15	EM&V-Commercial-HVAC_Fans_Pumps	494.00



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPERATING_HOURS	BASE_CASE_KW	BASE_CASE_KWH	CONSERVATION_CASE_SE_KW	CONSERVATION_CASE_KWH	FIRST_YEAR_DEMAND_SAVINGS	FIRST_YEAR_ENERGY_SAVINGS	PEAK_DEMAND_SAVINGS	EFFECTIVE_USEFUL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE_COST
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 2 HP, 1800 RPM, 87.5%	ODP Motor, 2 HP, 1800 RPM, 86.5%	4000	1.294	5174.566	1.279	5115.429	0.015	59.138	0.007	15	EM&V-Commercial-HVAC_Fans_Pumps	494.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 2 HP, 3600 RPM, 86.5%	ODP Motor, 2 HP, 3600 RPM, 85.5%	4000	1.309	5235.088	1.294	5174.566	0.015	60.521	0.007	15	EM&V-Commercial-HVAC_Fans_Pumps	494.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 3 HP, 1200 RPM, 89.5%	ODP Motor, 3 HP, 1200 RPM, 88.5%	4000	1.897	7586.441	1.875	7501.676	0.021	84.765	0.009	15	EM&V-Commercial-HVAC_Fans_Pumps	535.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 3 HP, 1800 RPM, 90.5%	ODP Motor, 3 HP, 1800 RPM, 89.5%	4000	1.875	7501.676	1.855	7418.785	0.021	82.891	0.009	15	EM&V-Commercial-HVAC_Fans_Pumps	535.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 3 HP, 3600 RPM, 86.5%	ODP Motor, 3 HP, 3600 RPM, 85.5%	4000	1.963	7852.632	1.940	7761.850	0.023	90.782	0.010	15	EM&V-Commercial-HVAC_Fans_Pumps	535.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 5 HP, 1200 RPM, 90.5%	ODP Motor, 5 HP, 1200 RPM, 89.5%	4000	3.126	12502.793	3.091	12364.641	0.035	138.152	0.015	15	EM&V-Commercial-HVAC_Fans_Pumps	556.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 5 HP, 1800 RPM, 90.5%	ODP Motor, 5 HP, 1800 RPM, 89.5%	4000	3.126	12502.793	3.091	12364.641	0.035	138.152	0.015	15	EM&V-Commercial-HVAC_Fans_Pumps	556.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 5 HP, 3600 RPM, 87.5%	ODP Motor, 5 HP, 3600 RPM, 86.5%	4000	3.234	12936.416	3.197	12788.571	0.037	147.845	0.016	15	EM&V-Commercial-HVAC_Fans_Pumps	556.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 7.5 HP, 1200 RPM, 91.2%	ODP Motor, 7.5 HP, 1200 RPM, 90.2%	4000	4.652	18608.647	4.601	18404.605	0.051	204.042	0.023	15	EM&V-Commercial-HVAC_Fans_Pumps	869.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 7.5 HP, 1800 RPM, 92%	ODP Motor, 7.5 HP, 1800 RPM, 91%	4000	4.611	18445.055	4.561	18244.565	0.050	200.490	0.022	15	EM&V-Commercial-HVAC_Fans_Pumps	869.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 7.5 HP, 3600 RPM, 89.5%	ODP Motor, 7.5 HP, 3600 RPM, 88.5%	4000	4.742	18966.102	4.689	18754.190	0.053	211.912	0.024	15	EM&V-Commercial-HVAC_Fans_Pumps	869.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 10 HP, 1200 RPM, 92.7%	ODP Motor, 10 HP, 1200 RPM, 91.7%	4000	6.101	24405.671	6.036	24142.395	0.066	263.276	0.029	15	EM&V-Commercial-HVAC_Fans_Pumps	1006.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 10 HP, 1800 RPM, 92.7%	ODP Motor, 10 HP, 1800 RPM, 91.7%	4000	6.101	24405.671	6.036	24142.395	0.066	263.276	0.029	15	EM&V-Commercial-HVAC_Fans_Pumps	1006.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 10 HP, 3600 RPM, 90.5%	ODP Motor, 10 HP, 3600 RPM, 89.5%	4000	6.251	25005.587	6.182	24729.282	0.069	276.305	0.031	15	EM&V-Commercial-HVAC_Fans_Pumps	1006.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 15 HP, 1200 RPM, 92.7%	ODP Motor, 15 HP, 1200 RPM, 91.7%	4000	9.152	36608.506	9.053	36213.592	0.099	394.914	0.044	15	EM&V-Commercial-HVAC_Fans_Pumps	1318.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 15 HP, 1800 RPM, 94%	ODP Motor, 15 HP, 1800 RPM, 93%	4000	9.024	36096.774	8.928	35712.766	0.096	384.008	0.043	15	EM&V-Commercial-HVAC_Fans_Pumps	1318.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 15 HP, 3600 RPM, 91.2%	ODP Motor, 15 HP, 3600 RPM, 90.2%	4000	9.304	37217.295	9.202	36809.211	0.102	408.084	0.045	15	EM&V-Commercial-HVAC_Fans_Pumps	1318.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 20 HP, 1200 RPM, 93.4%	ODP Motor, 20 HP, 1200 RPM, 92.4%	4000	12.110	48441.558	11.981	47922.912	0.130	518.646	0.058	15	EM&V-Commercial-HVAC_Fans_Pumps	1607.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 20 HP, 1800 RPM, 94%	ODP Motor, 20 HP, 1800 RPM, 93%	4000	12.032	48129.032	11.904	47617.021	0.128	512.011	0.057	15	EM&V-Commercial-HVAC_Fans_Pumps	1607.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 20 HP, 3600 RPM, 92%	ODP Motor, 20 HP, 3600 RPM, 91%	4000	12.297	49186.813	12.163	48652.174	0.134	534.639	0.059	15	EM&V-Commercial-HVAC_Fans_Pumps	1607.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 25 HP, 1200 RPM, 94%	ODP Motor, 25 HP, 1200 RPM, 93%	4000	15.040	60161.290	14.880	59521.277	0.160	640.014	0.071	15	EM&V-Commercial-HVAC_Fans_Pumps	1968.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 25 HP, 1800 RPM, 94.6%	ODP Motor, 25 HP, 1800 RPM, 93.6%	4000	14.944	59775.641	14.786	59143.763	0.158	631.878	0.070	15	EM&V-Commercial-HVAC_Fans_Pumps	1968.00



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPERATING_HOURS	BASE_CASE_KW	BASE_CASE_KWH	CONSERVATION_CASE_SE_KW	CONSERVATION_CASE_KWH	FIRST_YEAR_DEMAND_SAVINGS	FIRST_YEAR_ENERGY_SAVINGS	PEAK_DEMAND_SAVINGS	EFFECTIVE_USEFUL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE_COST
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 25 HP, 3600 RPM, 92.7%	ODP Motor, 25 HP, 3600 RPM, 91.7%	4000	15.254	61014.177	15.089	60355.987	0.165	658.190	0.073	15	EM&V-Commercial-HVAC_Fans_Pumps	1968.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 30 HP, 1200 RPM, 94.6%	ODP Motor, 30 HP, 1200 RPM, 93.6%	4000	17.933	71730.769	17.743	70972.516	0.190	758.253	0.084	15	EM&V-Commercial-HVAC_Fans_Pumps	2195.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 30 HP, 1800 RPM, 95.1%	ODP Motor, 30 HP, 1800 RPM, 94.1%	4000	17.837	71349.628	17.650	70599.369	0.188	750.259	0.083	15	EM&V-Commercial-HVAC_Fans_Pumps	2195.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 30 HP, 3600 RPM, 92.7%	ODP Motor, 30 HP, 3600 RPM, 91.7%	4000	18.304	73217.012	18.107	72427.184	0.197	789.828	0.088	15	EM&V-Commercial-HVAC_Fans_Pumps	2195.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 40 HP, 1200 RPM, 95.1%	ODP Motor, 40 HP, 1200 RPM, 94.1%	4000	23.783	95132.837	23.533	94132.492	0.250	1000.345	0.111	15	EM&V-Commercial-HVAC_Fans_Pumps	2834.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 40 HP, 1800 RPM, 95.1%	ODP Motor, 40 HP, 1800 RPM, 94.1%	4000	23.783	95132.837	23.533	94132.492	0.250	1000.345	0.111	15	EM&V-Commercial-HVAC_Fans_Pumps	2834.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 40 HP, 3600 RPM, 93.4%	ODP Motor, 40 HP, 3600 RPM, 92.4%	4000	24.221	96883.117	23.961	95845.824	0.259	1037.292	0.115	15	EM&V-Commercial-HVAC_Fans_Pumps	2834.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 50 HP, 1200 RPM, 95.1%	ODP Motor, 50 HP, 1200 RPM, 94.1%	4000	29.729	118916.047	29.416	117665.615	0.313	1250.432	0.139	15	EM&V-Commercial-HVAC_Fans_Pumps	3201.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 50 HP, 1800 RPM, 95.5%	ODP Motor, 50 HP, 1800 RPM, 94.5%	4000	29.603	118412.698	29.293	117172.775	0.310	1239.924	0.138	15	EM&V-Commercial-HVAC_Fans_Pumps	3201.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 50 HP, 3600 RPM, 94%	ODP Motor, 50 HP, 3600 RPM, 93%	4000	30.081	120322.581	29.761	119042.553	0.320	1280.027	0.142	15	EM&V-Commercial-HVAC_Fans_Pumps	3201.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 60 HP, 1200 RPM, 95.5%	ODP Motor, 60 HP, 1200 RPM, 94.5%	4000	35.524	142095.238	35.152	140607.330	0.372	1487.908	0.165	15	EM&V-Commercial-HVAC_Fans_Pumps	4286.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 60 HP, 1800 RPM, 96%	ODP Motor, 60 HP, 1800 RPM, 95%	4000	35.337	141347.368	34.969	139875	0.368	1472.368	0.163	15	EM&V-Commercial-HVAC_Fans_Pumps	4286.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 60 HP, 3600 RPM, 94.6%	ODP Motor, 60 HP, 3600 RPM, 93.6%	4000	35.865	143461.538	35.486	141945.032	0.379	1516.507	0.168	15	EM&V-Commercial-HVAC_Fans_Pumps	4286.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 75 HP, 1200 RPM, 95.5%	ODP Motor, 75 HP, 1200 RPM, 94.5%	4000	44.405	177619.048	43.940	175759.162	0.465	1859.885	0.206	15	EM&V-Commercial-HVAC_Fans_Pumps	5068.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 75 HP, 1800 RPM, 96%	ODP Motor, 75 HP, 1800 RPM, 95%	4000	44.171	176684.211	43.711	174843.750	0.460	1840.461	0.204	15	EM&V-Commercial-HVAC_Fans_Pumps	5068.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 75 HP, 3600 RPM, 94.6%	ODP Motor, 75 HP, 3600 RPM, 93.6%	4000	44.832	179326.923	44.358	177431.290	0.474	1895.633	0.210	15	EM&V-Commercial-HVAC_Fans_Pumps	5068.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 100 HP, 1200 RPM, 96%	ODP Motor, 100 HP, 1200 RPM, 95%	4000	58.895	235578.947	58.281	233125	0.613	2453.947	0.272	15	EM&V-Commercial-HVAC_Fans_Pumps	5956.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 100 HP, 1800 RPM, 96.4%	ODP Motor, 100 HP, 1800 RPM, 95.4%	4000	58.648	234591.195	58.039	232157.676	0.608	2433.519	0.270	15	EM&V-Commercial-HVAC_Fans_Pumps	5956.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 100 HP, 3600 RPM, 94.6%	ODP Motor, 100 HP, 3600 RPM, 93.6%	4000	59.776	239102.564	59.144	236575.053	0.632	2527.511	0.281	15	EM&V-Commercial-HVAC_Fans_Pumps	5956.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 125 HP, 1200 RPM, 96%	ODP Motor, 125 HP, 1200 RPM, 95%	4000	73.618	294473.684	72.852	291406.250	0.767	3067.434	0.341	15	EM&V-Commercial-HVAC_Fans_Pumps	7689.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 125 HP, 1800 RPM, 96.4%	ODP Motor, 125 HP, 1800 RPM, 95.4%	4000	73.310	293238.994	72.549	290197.095	0.760	3041.898	0.338	15	EM&V-Commercial-HVAC_Fans_Pumps	7689.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 125 HP, 3600 RPM, 95.1%	ODP Motor, 125 HP, 3600 RPM, 94.1%	4000	74.323	297290.117	73.541	294164.038	0.782	3126.079	0.347	15	EM&V-Commercial-HVAC_Fans_Pumps	7689.00



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPERATING_HOURS	BASE_CASE_KW	BASE_CASE_KWH	CONSERVATION_CASE_SE_KW	CONSERVATION_CASE_KWH	FIRST_YEAR_DEMAND_SAVINGS	FIRST_YEAR_ENERGY_SAVINGS	PEAK_DEMAND_SAVINGS	EFFECTIVE_USEFUL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE_COST
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 150 HP, 1200 RPM, 96.4%	ODP Motor, 150 HP, 1200 RPM, 95.4%	4000	87.972	351886.792	87.059	348236.515	0.913	3650.278	0.405	15	EM&V-Commercial-HVAC_Fans_Pumps	8023.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 150 HP, 1800 RPM, 96.8%	ODP Motor, 150 HP, 1800 RPM, 95.8%	4000	87.604	350417.537	86.699	346797.521	0.905	3620.016	0.402	15	EM&V-Commercial-HVAC_Fans_Pumps	8023.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 150 HP, 3600 RPM, 95.1%	ODP Motor, 150 HP, 3600 RPM, 94.1%	4000	89.187	356748.140	88.249	352996.845	0.938	3751.295	0.416	15	EM&V-Commercial-HVAC_Fans_Pumps	8023.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 200 HP, 1200 RPM, 96.4%	ODP Motor, 200 HP, 1200 RPM, 95.4%	4000	117.296	469182.390	116.079	464315.353	1.217	4867.037	0.540	15	EM&V-Commercial-HVAC_Fans_Pumps	9924.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 200 HP, 1800 RPM, 96.8%	ODP Motor, 200 HP, 1800 RPM, 95.8%	4000	116.806	467223.382	115.599	462396.694	1.207	4826.688	0.536	15	EM&V-Commercial-HVAC_Fans_Pumps	9924.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 200 HP, 3600 RPM, 96%	ODP Motor, 200 HP, 3600 RPM, 95%	4000	117.789	471157.895	116.563	466250	1.227	4907.895	0.545	15	EM&V-Commercial-HVAC_Fans_Pumps	9924.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 250 HP, 1200 RPM, 96.4%	ODP Motor, 250 HP, 1200 RPM, 95.4%	4000	147.033	588132.780	148.574	594297.694	1.541	6165	0.690	15	EM&V-Commercial-HVAC_Fans_Pumps	10971.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 250 HP, 1800 RPM, 96.8%	ODP Motor, 250 HP, 1800 RPM, 95.8%	4000	146.426	585702.479	147.954	591816.284	1.529	6114	0.679	15	EM&V-Commercial-HVAC_Fans_Pumps	10971.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 250 HP, 3600 RPM, 96%	ODP Motor, 250 HP, 3600 RPM, 95%	4000	147.646	590583.333	149.200	596800	1.544	6218	0.683	15	EM&V-Commercial-HVAC_Fans_Pumps	10971.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 300 HP, 1200 RPM, 96.4%	ODP Motor, 300 HP, 1200 RPM, 95.4%	4000	176.440	705759.336	178.289	713157.233	1.850	7398	0.828	15	EM&V-Commercial-HVAC_Fans_Pumps	11513.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 300 HP, 1800 RPM, 96.8%	ODP Motor, 300 HP, 1800 RPM, 95.8%	4000	175.711	702842.975	177.545	710179.541	1.834	7337	0.814	15	EM&V-Commercial-HVAC_Fans_Pumps	11513.00
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 300 HP, 3600 RPM, 96.4%	ODP Motor, 300 HP, 3600 RPM, 95.4%	4000	176.440	705759.336	178.289	713157.233	1.850	7398	0.821	15	EM&V-Commercial-HVAC_Fans_Pumps	11513.00
Lighting - Other Commercial Buildings	OCCUPANCY SENSORS	Switch Plate Mounted	Measure Mix of 95% No Occupancy Sensor and 5% Replacing Existing Occupancy Sensor or Other Type of Control	4000	0.150	600	0.150	429	0.000	171	0.027	11	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	120.48
Lighting - Other Commercial Buildings	OCCUPANCY SENSORS	Ceiling/Wall Mounted	Measure Mix of 95% No Occupancy Sensor and 5% Replacing Existing Occupancy Sensor or Other Type of Control	4000	0.300	1200	0.300	732.600	0.000	467.400	0.074	11	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	218.00
Lighting - Other Commercial Buildings	OCCUPANCY SENSORS	Fixture Mounted Occupancy Sensor (High Bay) for fixtures >= 100W	Measure Mix of 95% No Occupancy Sensor and 5% Replacing Existing Occupancy Sensor or Other Type of Control	4000	0.120	480	0.120	293.040	0.000	186.960	0.030	11	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	291.21
Lighting - Other Commercial Buildings	OCCUPANCY SENSORS	Fixture Mounted Occupancy Sensor (all other) for fixtures < 100W	Measure Mix of 95% No Occupancy Sensor and 5% Replacing Existing Occupancy Sensor or Other Type of Control	4000	0.030	120	0.030	73.260	0.000	46.740	0.007	11	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	356.95
Lighting - Schools	OCCUPANCY SENSORS	Fixture Mounted Occupancy Sensor (all other) for fixtures < 100W	Measure Mix of 95% No Occupancy Sensor and 5% Replacing Existing Occupancy Sensor or Other Type of Control	2596	0.030	77.880	0.030	47.546	0.000	30.334	0.002	12	PSP-Business-Schools-Lighting_Interior_General	356.95
Lighting - University Colleges	OCCUPANCY SENSORS	Fixture Mounted Occupancy Sensor (all other) for fixtures < 100W	Measure Mix of 95% No Occupancy Sensor and 5% Replacing Existing Occupancy Sensor or Other Type of Control	3255	0.030	97.650	0.030	67.316	0.000	30.334	0.004	10	PSP-Business-University_Colleges-Lighting_Interior_General	356.95
Lighting - Warehouse Wholesale	OCCUPANCY SENSORS	Fixture Mounted Occupancy Sensor (all other) for fixtures < 100W	Measure Mix of 95% No Occupancy Sensor and 5% Replacing Existing Occupancy Sensor or Other Type of Control	3759	0.030	112.770	0.030	82.436	0.000	30.334	0.006	9	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	356.95
Lighting - Food Retail	OCCUPANCY SENSORS	Switch Plate Mounted	Measure Mix of 95% No Occupancy Sensor and 5% Replacing Existing Occupancy Sensor or Other Type of Control	6074	0.150	911.100	0.150	651.437	0.000	259.664	0.037	5	PSP-Business-Food_Retail-Lighting_Interior_General	120.48
Lighting - Hospital	OCCUPANCY SENSORS	Switch Plate Mounted	Measure Mix of 95% No Occupancy Sensor and 5% Replacing Existing Occupancy Sensor or Other Type of Control	5182	0.150	777.300	0.150	555.770	0.000	221.531	0.030	6	PSP-Business-Hospital-Lighting_Interior_General	120.48
Lighting - Large Hotel (Corridor/Lobby)	OCCUPANCY SENSORS	Switch Plate Mounted	Measure Mix of 95% No Occupancy Sensor and 5% Replacing Existing Occupancy Sensor or Other Type of Control	7884	0.150	1182.600	0.150	845.559	0.000	337.041	0.041	4	PSP-Business-Large_Hotel-Lighting_Interior_General	120.48



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPERATING_HOURS	BASE_CASE_KW	BASE_CASE_KWH	CONSERVATION_CASE_SE_KW	CONSERVATION_CASE_KWH	FIRST_YEAR_DEMAND_SAVINGS	FIRST_YEAR_ENERGY_SAVINGS	PEAK_DEMAND_SAVINGS	EFFECTIVE_USEFUL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE_COST
Lighting - Large Non-Food Retail	OCCUPANCY SENSORS	Switch Plate Mounted	Measure Mix of 95% No Occupancy Sensor and 5% Replacing Existing Occupancy Sensor or Other Type of Control	4089	0.150	613.350	0.150	438.545	0.000	174.805	0.026	8	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	120.48
Lighting - Large Office	OCCUPANCY SENSORS	Switch Plate Mounted	Measure Mix of 95% No Occupancy Sensor and 5% Replacing Existing Occupancy Sensor or Other Type of Control	3610	0.150	541.500	0.150	387.173	0.000	154.328	0.028	9	PSP-Business-Large_Office-Lighting_Interior_General	120.48
Lighting - Nursing Home	OCCUPANCY SENSORS	Switch Plate Mounted	Measure Mix of 95% No Occupancy Sensor and 5% Replacing Existing Occupancy Sensor or Other Type of Control	4308	0.150	646.200	0.150	462.033	0.000	184.167	0.028	7	PSP-Business-Nursing_Home-Lighting_Interior_General	120.48
Lighting - Other Non-Food Retail	OCCUPANCY SENSORS	Switch Plate Mounted	Measure Mix of 95% No Occupancy Sensor and 5% Replacing Existing Occupancy Sensor or Other Type of Control	4089	0.150	613.350	0.150	438.545	0.000	174.805	0.032	8	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	120.48
Lighting - Restaurant	OCCUPANCY SENSORS	Switch Plate Mounted	Measure Mix of 95% No Occupancy Sensor and 5% Replacing Existing Occupancy Sensor or Other Type of Control	5110	0.150	766.500	0.150	548.048	0.000	218.453	0.036	6	PSP-Business-Restaurant-Lighting_Interior_General	120.48
Lighting - Schools	OCCUPANCY SENSORS	Switch Plate Mounted	Measure Mix of 95% No Occupancy Sensor and 5% Replacing Existing Occupancy Sensor or Other Type of Control	2596	0.150	389.400	0.150	278.421	0.000	110.979	0.006	12	PSP-Business-Schools-Lighting_Interior_General	120.48
Lighting - University Colleges	OCCUPANCY SENSORS	Switch Plate Mounted	Measure Mix of 95% No Occupancy Sensor and 5% Replacing Existing Occupancy Sensor or Other Type of Control	3255	0.150	488.250	0.150	349.099	0.000	139.151	0.018	10	PSP-Business-University_Colleges-Lighting_Interior_General	120.48
Lighting - Warehouse Wholesale	OCCUPANCY SENSORS	Switch Plate Mounted	Measure Mix of 95% No Occupancy Sensor and 5% Replacing Existing Occupancy Sensor or Other Type of Control	3759	0.150	563.850	0.150	403.153	0.000	160.697	0.032	9	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	120.48
Lighting - Food Retail	OCCUPANCY SENSORS	Ceiling/Wall Mounted	Measure Mix of 95% No Occupancy Sensor and 5% Replacing Existing Occupancy Sensor or Other Type of Control	6074	0.300	1822.200	0.300	1112.453	0.000	709.747	0.101	5	PSP-Business-Food_Retail-Lighting_Interior_General	218.00
Lighting - Hospital	OCCUPANCY SENSORS	Ceiling/Wall Mounted	Measure Mix of 95% No Occupancy Sensor and 5% Replacing Existing Occupancy Sensor or Other Type of Control	5182	0.300	1554.600	0.300	949.083	0.000	605.517	0.081	6	PSP-Business-Hospital-Lighting_Interior_General	218.00
Lighting - Large Hotel (Corridor/Lobby)	OCCUPANCY SENSORS	Ceiling/Wall Mounted	Measure Mix of 95% No Occupancy Sensor and 5% Replacing Existing Occupancy Sensor or Other Type of Control	7884	0.300	2365.200	0.300	1443.955	0.000	921.245	0.111	4	PSP-Business-Large_Hotel-Lighting_Interior_General	218.00
Lighting - Large Non-Food Retail	OCCUPANCY SENSORS	Ceiling/Wall Mounted	Measure Mix of 95% No Occupancy Sensor and 5% Replacing Existing Occupancy Sensor or Other Type of Control	4089	0.300	1226.700	0.300	748.900	0.000	477.800	0.071	8	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	218.00
Lighting - Large Office	OCCUPANCY SENSORS	Ceiling/Wall Mounted	Measure Mix of 95% No Occupancy Sensor and 5% Replacing Existing Occupancy Sensor or Other Type of Control	3610	0.300	1083	0.300	661.172	0.000	421.829	0.075	9	PSP-Business-Large_Office-Lighting_Interior_General	218.00
Lighting - Nursing Home	OCCUPANCY SENSORS	Ceiling/Wall Mounted	Measure Mix of 95% No Occupancy Sensor and 5% Replacing Existing Occupancy Sensor or Other Type of Control	4308	0.300	1292.400	0.300	789.010	0.000	503.390	0.076	7	PSP-Business-Nursing_Home-Lighting_Interior_General	218.00
Lighting - Other Non-Food Retail	OCCUPANCY SENSORS	Ceiling/Wall Mounted	Measure Mix of 95% No Occupancy Sensor and 5% Replacing Existing Occupancy Sensor or Other Type of Control	4089	0.300	1226.700	0.300	748.900	0.000	477.800	0.088	8	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	218.00
Lighting - Restaurant	OCCUPANCY SENSORS	Ceiling/Wall Mounted	Measure Mix of 95% No Occupancy Sensor and 5% Replacing Existing Occupancy Sensor or Other Type of Control	5110	0.300	1533	0.300	935.897	0.000	597.104	0.098	6	PSP-Business-Restaurant-Lighting_Interior_General	218.00
Lighting - Schools	OCCUPANCY SENSORS	Ceiling/Wall Mounted	Measure Mix of 95% No Occupancy Sensor and 5% Replacing Existing Occupancy Sensor or Other Type of Control	2596	0.300	778.800	0.300	475.457	0.000	303.343	0.015	12	PSP-Business-Schools-Lighting_Interior_General	218.00
Lighting - University Colleges	OCCUPANCY SENSORS	Ceiling/Wall Mounted	Measure Mix of 95% No Occupancy Sensor and 5% Replacing Existing Occupancy Sensor or Other Type of Control	3255	0.300	976.500	0.300	596.153	0.000	380.347	0.050	10	PSP-Business-University_Colleges-Lighting_Interior_General	218.00
Lighting - Warehouse Wholesale	OCCUPANCY SENSORS	Ceiling/Wall Mounted	Measure Mix of 95% No Occupancy Sensor and 5% Replacing Existing Occupancy Sensor or Other Type of Control	3759	0.300	1127.700	0.300	688.461	0.000	439.239	0.086	9	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	218.00
Lighting - Food Retail	OCCUPANCY SENSORS	Fixture Mounted Occupancy Sensor (High Bay) for fixtures >= 100W	Measure Mix of 95% No Occupancy Sensor and 5% Replacing Existing Occupancy Sensor or Other Type of Control	6074	0.120	728.880	0.120	444.981	0.000	283.899	0.040	5	PSP-Business-Food_Retail-Lighting_Interior_General	291.21
Lighting - Hospital	OCCUPANCY SENSORS	Fixture Mounted Occupancy Sensor (High Bay) for fixtures >= 100W	Measure Mix of 95% No Occupancy Sensor and 5% Replacing Existing Occupancy Sensor or Other Type of Control	5182	0.120	621.840	0.120	379.633	0.000	242.207	0.032	6	PSP-Business-Hospital-Lighting_Interior_General	291.21
Lighting - Large Hotel (Corridor/Lobby)	OCCUPANCY SENSORS	Fixture Mounted Occupancy Sensor (High Bay) for fixtures >= 100W	Measure Mix of 95% No Occupancy Sensor and 5% Replacing Existing Occupancy Sensor or Other Type of Control	7884	0.120	946.080	0.120	577.582	0.000	368.498	0.045	4	PSP-Business-Large_Hotel-Lighting_Interior_General	291.21



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPERATING_HOURS	BASE_CASE_KW	BASE_CASE_KWH	CONSERVATION_CASE_SE_KW	CONSERVATION_CASE_KWH	FIRST_YEAR_DEMAND_SAVINGS	FIRST_YEAR_ENERGY_SAVINGS	PEAK_DEMAND_SAVINGS	EFFECTIVE_USEFUL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE_COST
Lighting - Large Non-Food Retail	OCCUPANCY SENSORS	Fixture Mounted Occupancy Sensor (High Bay) for fixtures >= 100W	Measure Mix of 95% No Occupancy Sensor and 5% Replacing Existing Occupancy Sensor or Other Type of Control	4089	0.120	490.680	0.120	299.560	0.000	191.120	0.028	8	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	291.21
Lighting - Large Office	OCCUPANCY SENSORS	Fixture Mounted Occupancy Sensor (High Bay) for fixtures >= 100W	Measure Mix of 95% No Occupancy Sensor and 5% Replacing Existing Occupancy Sensor or Other Type of Control	3610	0.120	433.200	0.120	264.469	0.000	168.731	0.030	9	PSP-Business-Large_Office-Lighting_Interior_General	291.21
Lighting - Nursing Home	OCCUPANCY SENSORS	Fixture Mounted Occupancy Sensor (High Bay) for fixtures >= 100W	Measure Mix of 95% No Occupancy Sensor and 5% Replacing Existing Occupancy Sensor or Other Type of Control	4308	0.120	516.960	0.120	315.604	0.000	201.356	0.030	7	PSP-Business-Nursing_Home-Lighting_Interior_General	291.21
Lighting - Large Office	OCCUPANCY SENSORS	Fixture Mounted Occupancy Sensor (all other) for fixtures < 100W	Measure Mix of 95% No Occupancy Sensor and 5% Replacing Existing Occupancy Sensor or Other Type of Control	3610	0.030	108.300	0.030	66.117	0.000	42.183	0.008	9	PSP-Business-Large_Office-Lighting_Interior_General	356.95
Lighting - Nursing Home	OCCUPANCY SENSORS	Fixture Mounted Occupancy Sensor (all other) for fixtures < 100W	Measure Mix of 95% No Occupancy Sensor and 5% Replacing Existing Occupancy Sensor or Other Type of Control	4308	0.030	129.240	0.030	78.901	0.000	50.339	0.008	7	PSP-Business-Nursing_Home-Lighting_Interior_General	356.95
Lighting - Other Non-Food Retail	OCCUPANCY SENSORS	Fixture Mounted Occupancy Sensor (all other) for fixtures < 100W	Measure Mix of 95% No Occupancy Sensor and 5% Replacing Existing Occupancy Sensor or Other Type of Control	4089	0.030	122.670	0.030	74.890	0.000	47.780	0.009	8	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	356.95
Lighting - Restaurant	OCCUPANCY SENSORS	Fixture Mounted Occupancy Sensor (all other) for fixtures < 100W	Measure Mix of 95% No Occupancy Sensor and 5% Replacing Existing Occupancy Sensor or Other Type of Control	5110	0.030	153.300	0.030	93.590	0.000	59.710	0.010	6	PSP-Business-Restaurant-Lighting_Interior_General	356.95
Lighting - Other Non-Food Retail	OCCUPANCY SENSORS	Fixture Mounted Occupancy Sensor (High Bay) for fixtures >= 100W	Measure Mix of 95% No Occupancy Sensor and 5% Replacing Existing Occupancy Sensor or Other Type of Control	4089	0.120	490.680	0.120	299.560	0.000	191.120	0.035	8	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	291.21
Lighting - Restaurant	OCCUPANCY SENSORS	Fixture Mounted Occupancy Sensor (High Bay) for fixtures >= 100W	Measure Mix of 95% No Occupancy Sensor and 5% Replacing Existing Occupancy Sensor or Other Type of Control	5110	0.120	613.200	0.120	374.359	0.000	238.841	0.039	6	PSP-Business-Restaurant-Lighting_Interior_General	291.21
Lighting - Schools	OCCUPANCY SENSORS	Fixture Mounted Occupancy Sensor (High Bay) for fixtures >= 100W	Measure Mix of 95% No Occupancy Sensor and 5% Replacing Existing Occupancy Sensor or Other Type of Control	2596	0.120	311.520	0.120	190.183	0.000	121.337	0.006	12	PSP-Business-Schools-Lighting_Interior_General	291.21
Lighting - University Colleges	OCCUPANCY SENSORS	Fixture Mounted Occupancy Sensor (High Bay) for fixtures >= 100W	Measure Mix of 95% No Occupancy Sensor and 5% Replacing Existing Occupancy Sensor or Other Type of Control	3255	0.120	390.600	0.120	238.461	0.000	152.139	0.020	10	PSP-Business-University_Colleges-Lighting_Interior_General	291.21
Lighting - Warehouse Wholesale	OCCUPANCY SENSORS	Fixture Mounted Occupancy Sensor (High Bay) for fixtures >= 100W	Measure Mix of 95% No Occupancy Sensor and 5% Replacing Existing Occupancy Sensor or Other Type of Control	3759	0.120	451.080	0.120	275.384	0.000	175.696	0.035	9	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	291.21
Lighting - Food Retail	OCCUPANCY SENSORS	Fixture Mounted Occupancy Sensor (all other) for fixtures < 100W	Measure Mix of 95% No Occupancy Sensor and 5% Replacing Existing Occupancy Sensor or Other Type of Control	6074	0.030	182.220	0.030	111.245	0.000	70.975	0.010	5	PSP-Business-Food_Retail-Lighting_Interior_General	356.95
Lighting - Hospital	OCCUPANCY SENSORS	Fixture Mounted Occupancy Sensor (all other) for fixtures < 100W	Measure Mix of 95% No Occupancy Sensor and 5% Replacing Existing Occupancy Sensor or Other Type of Control	5182	0.030	155.460	0.030	94.908	0.000	60.552	0.008	6	PSP-Business-Hospital-Lighting_Interior_General	356.95
Lighting - Large Hotel (Corridor/Lobby)	OCCUPANCY SENSORS	Fixture Mounted Occupancy Sensor (all other) for fixtures < 100W	Measure Mix of 95% No Occupancy Sensor and 5% Replacing Existing Occupancy Sensor or Other Type of Control	7884	0.030	236.520	0.030	144.395	0.000	92.125	0.011	4	PSP-Business-Large_Hotel-Lighting_Interior_General	356.95
Lighting - Large Non-Food Retail	OCCUPANCY SENSORS	Fixture Mounted Occupancy Sensor (all other) for fixtures < 100W	Measure Mix of 95% No Occupancy Sensor and 5% Replacing Existing Occupancy Sensor or Other Type of Control	4089	0.030	122.670	0.030	74.890	0.000	47.780	0.007	8	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	356.95
Lighting - Large Non-Food Retail	NETWORKED LIGHTING CONTROLS	Enter the total wattage (kW) of the luminaires being controlled by the Networked Lighting Control system	No existing controls or basic lighting control systems	4089						kWh=kW*1799.16	0.0001483kW/kWh	16	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	\$2780/kW
Lighting - Nursing Home	NETWORKED LIGHTING CONTROLS	Enter the total wattage (kW) of the luminaires being controlled by the Networked Lighting Control system	No existing controls or basic lighting control systems	4308						kWh=kW*2024.76	0.0001512kW/kWh	16	PSP-Business-Nursing_Home-Lighting_Interior_General	\$2780/kW
Lighting - Large Hotel (Corridor/Lobby)	NETWORKED LIGHTING CONTROLS	Enter the total wattage (kW) of the luminaires being controlled by the Networked Lighting Control system	No existing controls or basic lighting control systems	7884						kWh=kW*3705.48	0.0001208kW/kWh	16	PSP-Business-Large_Hotel-Lighting_Interior_General	\$2780/kW
Lighting - Other Non-Food Retail	NETWORKED LIGHTING CONTROLS	Enter the total wattage (kW) of the luminaires being controlled by the Networked Lighting Control system	No existing controls or basic lighting control systems	4089						kWh=kW*1799.16	0.0001844kW/kWh	16	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	\$2780/kW
Lighting - University Colleges	NETWORKED LIGHTING CONTROLS	Enter the total wattage (kW) of the luminaires being controlled by the Networked Lighting Control system	No existing controls or basic lighting control systems	3255						kWh=kW*911.40	0.0001317kW/kWh	16	PSP-Business-University_Colleges-Lighting_Interior_General	\$2780/kW
Lighting - Warehouse Wholesale	NETWORKED LIGHTING CONTROLS	Enter the total wattage (kW) of the luminaires being controlled by the Networked Lighting Control system	No existing controls or basic lighting control systems	3759						kWh=kW*3082.38	0.0001965kW/kWh	16	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	\$2780/kW



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPERATING_HOURS	BASE_CASE_KW	BASE_CASE_KWH	CONSERVATION_CASE_KW	CONSERVATION_CASE_KWH	FIRST_YEAR_DEMAND_SAVINGS	FIRST_YEAR_ENERGY_SAVINGS	PEAK_DEMAND_SAVINGS	EFFECTIVE_USEFUL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE_COST
Lighting - Other Commercial Buildings	NETWORKED LIGHTING CONTROLS	Enter the total wattage (kW) of the luminaires being controlled by the Networked Lighting Control system	No existing controls or basic lighting control systems	4000						kWh=kW*1342.79	0.0001578kW/kWh	16	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	\$2780/kW
Lighting - Restaurant	NETWORKED LIGHTING CONTROLS	Enter the total wattage (kW) of the luminaires being controlled by the Networked Lighting Control system	No existing controls or basic lighting control systems	5110						kWh=kW*2401.70	0.0001639kW/kWh	16	PSP-Business-Restaurant-Lighting_Interior_General	\$2780/kW
Lighting - Hospital	NETWORKED LIGHTING CONTROLS	Enter the total wattage (kW) of the luminaires being controlled by the Networked Lighting Control system	No existing controls or basic lighting control systems	5182						kWh=kW*2435.54	0.0001335kW/kWh	16	PSP-Business-Hospital-Lighting_Interior_General	\$2780/kW
Lighting - Large Office	NETWORKED LIGHTING CONTROLS	Enter the total wattage (kW) of the luminaires being controlled by the Networked Lighting Control system	No existing controls or basic lighting control systems	3610						kWh=kW*2274.30	0.0001786kW/kWh	16	PSP-Business-Large_Office-Lighting_Interior_General	\$2780/kW
Lighting - Schools	NETWORKED LIGHTING CONTROLS	Enter the total wattage (kW) of the luminaires being controlled by the Networked Lighting Control system	No existing controls or basic lighting control systems	2596						kWh=kW*1220.12	0.0000503kW/kWh	16	PSP-Business-Schools-Lighting_Interior_General	\$2780/kW
Lighting - Food Retail	NETWORKED LIGHTING CONTROLS	Enter the total wattage (kW) of the luminaires being controlled by the Networked Lighting Control system	No existing controls or basic lighting control systems	6074						kWh=kW*2854.78	0.0001421kW/kWh	16	PSP-Business-Food_Retail-Lighting_Interior_General	\$2780/kW
Agribusiness	MILK SCROLL COMPRESSOR	New scroll compressor for milk cooling with minimum EER of 12	Old Reciprocating Compressor	2920					2.314	6759	0.772	15	PSP-Industrial-Agriculture-Other	540.00
Agribusiness	LOW ENERGY LIVESTOCK WATERERS	300W maximum	1500W (Max) electric heated Waterers						0.850	2383		10	PSP-Business-Commercial-Livestock_Waterer	920.00
Lighting - University Colleges	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 20W >= 800 Lumens	43W - 60W Halogen or Incandescent Lamp	3255	0.052	167.633	0.013	42.315	0.039	125.318	0.017	8	PSP-Business-University_Colleges-Lighting_Interior_General	-37.86
Lighting - Warehouse Wholesale	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 20W >= 800 Lumens	43W - 60W Halogen or Incandescent Lamp	3759	0.052	193.589	0.013	48.867	0.039	144.722	0.028	7	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	-37.86
Lighting - Large Non-Food Retail	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 16W >= 600 Lumens	38W - 43W Halogen or Incandescent Lamp	4089	0.041	165.605	0.011	44.979	0.030	120.626	0.018	6	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	-27.42
Lighting - Large Office	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 16W >= 600 Lumens	38W - 43W Halogen or Incandescent Lamp	3610	0.041	146.205	0.011	39.710	0.030	106.495	0.019	7	PSP-Business-Large_Office-Lighting_Interior_General	-27.42
Lighting - Nursing Home	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 16W >= 600 Lumens	38W - 43W Halogen or Incandescent Lamp	4308	0.041	174.474	0.011	47.388	0.030	127.086	0.019	6	PSP-Business-Nursing_Home-Lighting_Interior_General	-27.42
Lighting - Other Non-Food Retail	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 16W >= 600 Lumens	38W - 43W Halogen or Incandescent Lamp	4089	0.041	165.605	0.011	44.979	0.030	120.626	0.022	6	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	-27.42
Lighting - Restaurant	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 16W >= 600 Lumens	38W - 43W Halogen or Incandescent Lamp	5110	0.041	206.955	0.011	56.210	0.030	150.745	0.025	5	PSP-Business-Restaurant-Lighting_Interior_General	-27.42
Lighting - Schools	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 16W >= 600 Lumens	38W - 43W Halogen or Incandescent Lamp	2596	0.041	105.138	0.011	28.556	0.030	76.582	0.004	10	PSP-Business-Schools-Lighting_Interior_General	-27.42
Lighting - University Colleges	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 16W >= 600 Lumens	38W - 43W Halogen or Incandescent Lamp	3255	0.041	131.828	0.011	35.805	0.030	96.023	0.013	8	PSP-Business-University_Colleges-Lighting_Interior_General	-27.42
Lighting - Warehouse Wholesale	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 16W >= 600 Lumens	38W - 43W Halogen or Incandescent Lamp	3759	0.041	152.240	0.011	41.349	0.030	110.891	0.022	7	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	-27.42
Lighting - Food Retail	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 16W >= 600 Lumens	38W - 43W Halogen or Incandescent Lamp	6074	0.041	245.997	0.011	66.814	0.030	179.183	0.025	4	PSP-Business-Food_Retail-Lighting_Interior_General	-27.42
Lighting - Hospital	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 16W >= 600 Lumens	38W - 43W Halogen or Incandescent Lamp	5182	0.041	209.871	0.011	57.002	0.030	152.869	0.020	5	PSP-Business-Hospital-Lighting_Interior_General	-27.42
Lighting - Large Hotel (Corridor/Lobby)	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 16W >= 600 Lumens	38W - 43W Halogen or Incandescent Lamp	7884	0.041	319.302	0.011	86.724	0.030	232.578	0.028	3	PSP-Business-Large_Hotel-Lighting_Interior_General	-27.42
Lighting - Food Retail	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 30W >= 1100 Lumens	60W - 80W Halogen or Incandescent Lamp	6074	0.070	425.180	0.018	106.295	0.053	318.885	0.045	4	PSP-Business-Food_Retail-Lighting_Interior_General	-138.68



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPERATING_HOURS	BASE_CASE_KW	BASE_CASE_KWH	CONSERVATION_CASE_SE_KW	CONSERVATION_CASE_KWH	FIRST_YEAR_DEMAND_SAVINGS	FIRST_YEAR_ENERGY_SAVINGS	PEAK_DEMAND_SAVINGS	EFFECTIVE_USEFUL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE_COST
Lighting - Hospital	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 30W >= 1100 Lumens	60W - 80W Halogen or Incandescent Lamp	5182	0.070	362.740	0.018	90.685	0.053	272.055	0.036	5	PSP-Business-Hospital-Lighting_Interior_General	-138.68
Lighting - Large Hotel (Corridor/Lobby)	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 30W >= 1100 Lumens	60W - 80W Halogen or Incandescent Lamp	7884	0.070	551.880	0.018	137.970	0.053	413.910	0.050	3	PSP-Business-Large_Hotel-Lighting_Interior_General	-138.68
Lighting - Large Non-Food Retail	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 30W >= 1100 Lumens	60W - 80W Halogen or Incandescent Lamp	4089	0.070	286.230	0.018	71.558	0.053	214.673	0.032	6	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	-138.68
Lighting - Large Office	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 30W >= 1100 Lumens	60W - 80W Halogen or Incandescent Lamp	3610	0.070	252.700	0.018	63.175	0.053	189.525	0.034	7	PSP-Business-Large_Office-Lighting_Interior_General	-138.68
Lighting - Nursing Home	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 30W >= 1100 Lumens	60W - 80W Halogen or Incandescent Lamp	4308	0.070	301.560	0.018	75.390	0.053	226.170	0.034	6	PSP-Business-Nursing_Home-Lighting_Interior_General	-138.68
Lighting - Other Non-Food Retail	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 30W >= 1100 Lumens	60W - 80W Halogen or Incandescent Lamp	4089	0.070	286.230	0.018	71.558	0.053	214.673	0.040	6	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	-138.68
Lighting - Restaurant	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 30W >= 1100 Lumens	60W - 80W Halogen or Incandescent Lamp	5110	0.070	357.700	0.018	89.425	0.053	268.275	0.044	5	PSP-Business-Restaurant-Lighting_Interior_General	-138.68
Lighting - Schools	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 30W >= 1100 Lumens	60W - 80W Halogen or Incandescent Lamp	2596	0.070	181.720	0.018	45.430	0.053	136.290	0.007	10	PSP-Business-Schools-Lighting_Interior_General	-138.68
Lighting - University Colleges	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 30W >= 1100 Lumens	60W - 80W Halogen or Incandescent Lamp	3255	0.070	227.850	0.018	56.963	0.053	170.888	0.023	8	PSP-Business-University_Colleges-Lighting_Interior_General	-138.68
Lighting - Warehouse Wholesale	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 30W >= 1100 Lumens	60W - 80W Halogen or Incandescent Lamp	3759	0.070	263.130	0.018	65.783	0.053	197.348	0.039	7	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	-138.68
Lighting - Food Retail	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 7W >= 250 Lumens	20W - 35W Halogen or Incandescent Lamp	6074	0.028	167.035	0.006	36.444	0.022	130.591	0.019	4	PSP-Business-Food_Retail-Lighting_Interior_General	-94.29
Lighting - Hospital	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 7W >= 250 Lumens	20W - 35W Halogen or Incandescent Lamp	5182	0.028	142.505	0.006	31.092	0.022	111.413	0.015	5	PSP-Business-Hospital-Lighting_Interior_General	-94.29
Lighting - Large Hotel (Corridor/Lobby)	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 7W >= 250 Lumens	20W - 35W Halogen or Incandescent Lamp	7884	0.028	216.810	0.006	47.304	0.022	169.506	0.020	3	PSP-Business-Large_Hotel-Lighting_Interior_General	-94.29
Lighting - Large Non-Food Retail	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 7W >= 250 Lumens	20W - 35W Halogen or Incandescent Lamp	4089	0.028	112.448	0.006	24.534	0.022	87.914	0.013	6	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	-94.29
Lighting - Large Office	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 7W >= 250 Lumens	20W - 35W Halogen or Incandescent Lamp	3610	0.028	99.275	0.006	21.660	0.022	77.615	0.014	7	PSP-Business-Large_Office-Lighting_Interior_General	-94.29
Lighting - Nursing Home	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 7W >= 250 Lumens	20W - 35W Halogen or Incandescent Lamp	4308	0.028	118.470	0.006	25.848	0.022	92.622	0.014	6	PSP-Business-Nursing_Home-Lighting_Interior_General	-94.29
Lighting - Other Non-Food Retail	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 7W >= 250 Lumens	20W - 35W Halogen or Incandescent Lamp	4089	0.028	112.448	0.006	24.534	0.022	87.914	0.016	6	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	-94.29
Lighting - Restaurant	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 7W >= 250 Lumens	20W - 35W Halogen or Incandescent Lamp	5110	0.028	140.525	0.006	30.660	0.022	109.865	0.018	5	PSP-Business-Restaurant-Lighting_Interior_General	-94.29
Lighting - Schools	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 7W >= 250 Lumens	20W - 35W Halogen or Incandescent Lamp	2596	0.028	71.390	0.006	15.576	0.022	55.814	0.003	10	PSP-Business-Schools-Lighting_Interior_General	-94.29
Lighting - University Colleges	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 7W >= 250 Lumens	20W - 35W Halogen or Incandescent Lamp	3255	0.028	89.513	0.006	19.530	0.022	69.983	0.009	8	PSP-Business-University_Colleges-Lighting_Interior_General	-94.29
Lighting - Warehouse Wholesale	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 7W >= 250 Lumens	20W - 35W Halogen or Incandescent Lamp	3759	0.028	103.373	0.006	22.554	0.022	80.819	0.016	7	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	-94.29
Lighting - Food Retail	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 14W >= 400 Lumens	35W - 38W Halogen or Incandescent Lamp	6074	0.037	221.701	0.008	45.555	0.029	176.146	0.025	4	PSP-Business-Food_Retail-Lighting_Interior_General	-55.06



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPERATING_HOURS	BASE_CASE_KW	BASE_CASE_KWH	CONSERVATION_CASE_SE_KW	CONSERVATION_CASE_KWH	FIRST_YEAR_DEMAND_SAVINGS	FIRST_YEAR_ENERGY_SAVINGS	PEAK_DEMAND_SAVINGS	EFFECTIVE_USEFUL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE_COST
Lighting - Hospital	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 14W >= 400 Lumens	35W - 38W Halogen or Incandescent Lamp	5182	0.037	189.143	0.008	38.865	0.029	150.278	0.020	5	PSP-Business-Hospital-Lighting_Interior_General	-55.06
Lighting - Large Hotel (Corridor/Lobby)	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 14W >= 400 Lumens	35W - 38W Halogen or Incandescent Lamp	7884	0.037	287.766	0.008	59.130	0.029	228.636	0.028	3	PSP-Business-Large_Hotel-Lighting_Interior_General	-55.06
Lighting - Large Non-Food Retail	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 14W >= 400 Lumens	35W - 38W Halogen or Incandescent Lamp	4089	0.037	149.249	0.008	30.668	0.029	118.581	0.018	6	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	-55.06
Lighting - Large Office	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 14W >= 400 Lumens	35W - 38W Halogen or Incandescent Lamp	3610	0.037	131.765	0.008	27.075	0.029	104.690	0.019	7	PSP-Business-Large_Office-Lighting_Interior_General	-55.06
Lighting - Nursing Home	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 14W >= 400 Lumens	35W - 38W Halogen or Incandescent Lamp	4308	0.037	157.242	0.008	32.310	0.029	124.932	0.019	6	PSP-Business-Nursing_Home-Lighting_Interior_General	-55.06
Lighting - Other Non-Food Retail	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 14W >= 400 Lumens	35W - 38W Halogen or Incandescent Lamp	4089	0.037	149.249	0.008	30.668	0.029	118.581	0.022	6	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	-55.06
Lighting - Restaurant	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 14W >= 400 Lumens	35W - 38W Halogen or Incandescent Lamp	5110	0.037	186.515	0.008	38.325	0.029	148.190	0.024	5	PSP-Business-Restaurant-Lighting_Interior_General	-55.06
Lighting - Schools	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 14W >= 400 Lumens	35W - 38W Halogen or Incandescent Lamp	2596	0.037	94.754	0.008	19.470	0.029	75.284	0.004	10	PSP-Business-Schools-Lighting_Interior_General	-55.06
Lighting - University Colleges	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 14W >= 400 Lumens	35W - 38W Halogen or Incandescent Lamp	3255	0.037	118.808	0.008	24.413	0.029	94.395	0.012	8	PSP-Business-University_Colleges-Lighting_Interior_General	-55.06
Lighting - Warehouse Wholesale	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 14W >= 400 Lumens	35W - 38W Halogen or Incandescent Lamp	3759	0.037	137.204	0.008	28.193	0.029	109.011	0.021	7	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	-55.06
Lighting - Food Retail	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 20W >= 800 Lumens	43W - 60W Halogen or Incandescent Lamp	6074	0.052	312.811	0.013	78.962	0.039	233.849	0.033	4	PSP-Business-Food_Retail-Lighting_Interior_General	-37.86
Lighting - Hospital	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 20W >= 800 Lumens	43W - 60W Halogen or Incandescent Lamp	5182	0.052	266.873	0.013	67.366	0.039	199.507	0.027	5	PSP-Business-Hospital-Lighting_Interior_General	-37.86
Lighting - Large Hotel (Corridor/Lobby)	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 20W >= 800 Lumens	43W - 60W Halogen or Incandescent Lamp	7884	0.052	406.026	0.013	102.492	0.039	303.534	0.037	3	PSP-Business-Large_Hotel-Lighting_Interior_General	-37.86
Lighting - Large Non-Food Retail	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 20W >= 800 Lumens	43W - 60W Halogen or Incandescent Lamp	4089	0.052	210.584	0.013	53.157	0.039	157.427	0.023	6	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	-37.86
Lighting - Large Office	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 20W >= 800 Lumens	43W - 60W Halogen or Incandescent Lamp	3610	0.052	185.915	0.013	46.930	0.039	138.985	0.025	7	PSP-Business-Large_Office-Lighting_Interior_General	-37.86
Lighting - Nursing Home	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 20W >= 800 Lumens	43W - 60W Halogen or Incandescent Lamp	4308	0.052	221.862	0.013	56.004	0.039	165.858	0.025	6	PSP-Business-Nursing_Home-Lighting_Interior_General	-37.86
Lighting - Other Non-Food Retail	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 20W >= 800 Lumens	43W - 60W Halogen or Incandescent Lamp	4089	0.052	210.584	0.013	53.157	0.039	157.427	0.029	6	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	-37.86
Lighting - Restaurant	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 20W >= 800 Lumens	43W - 60W Halogen or Incandescent Lamp	5110	0.052	263.165	0.013	66.430	0.039	196.735	0.032	5	PSP-Business-Restaurant-Lighting_Interior_General	-37.86
Lighting - Schools	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 20W >= 800 Lumens	43W - 60W Halogen or Incandescent Lamp	2596	0.052	133.694	0.013	33.748	0.039	99.946	0.005	10	PSP-Business-Schools-Lighting_Interior_General	-37.86
Lighting - Other Commercial Buildings	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 16W >= 600 Lumens	38W - 43W Halogen or Incandescent Lamp	4000	0.041	162	0.011	44	0.030	118	0.019	9	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	-27.42
Lighting - Other Commercial Buildings	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 30W >= 1100 Lumens	60W - 80W Halogen or Incandescent Lamp	4000	0.070	280	0.018	70	0.053	210	0.033	9	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	-138.68
Lighting - Other Commercial Buildings	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 7W >= 250 Lumens	20W - 35W Halogen or Incandescent Lamp	4000	0.028	110	0.006	24	0.022	86	0.014	9	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	-94.29



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPERATING_HOURS	BASE_CASE_KW	BASE_CASE_KWH	CONSERVATION_CASE_SE_KW	CONSERVATION_CASE_KWH	FIRST_YEAR_DEMAND_SAVINGS	FIRST_YEAR_ENERGY_SAVINGS	PEAK_DEMAND_SAVINGS	EFFECTIVE_USEFUL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE_COST
Lighting - Other Commercial Buildings	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 14W >= 400 Lumens	35W - 38W Halogen or Incandescent Lamp	4000	0.037	146	0.008	30	0.029	116	0.018	9	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	-55.06
Lighting - Other Commercial Buildings	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 20W >= 800 Lumens	43W - 60W Halogen or Incandescent Lamp	4000	0.052	206	0.013	52	0.039	154	0.024	9	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	-37.86
Lighting - Other Non-Food Retail	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 800 Lumens	ENERGY STAR® 26W CFL	4089	0.026	106.314	0.015	62.562	0.011	43.752	0.008	11	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	55.82
Lighting - Restaurant	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 800 Lumens	ENERGY STAR® 26W CFL	5110	0.026	132.860	0.015	78.183	0.011	54.677	0.009	9	PSP-Business-Restaurant-Lighting_Interior_General	55.82
Lighting - Schools	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 800 Lumens	ENERGY STAR® 26W CFL	2596	0.026	67.496	0.015	39.719	0.011	27.777	0.001	17	PSP-Business-Schools-Lighting_Interior_General	55.82
Lighting - University Colleges	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 800 Lumens	ENERGY STAR® 26W CFL	3255	0.026	84.630	0.015	49.802	0.011	34.829	0.005	14	PSP-Business-University_Colleges-Lighting_Interior_General	55.82
Lighting - Warehouse Wholesale	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 800 Lumens	ENERGY STAR® 26W CFL	3759	0.026	97.734	0.015	57.513	0.011	40.221	0.008	12	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	55.82
Lighting - Large Hotel (Corridor/Lobby)	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 600 and < 800 Lumens	ENERGY STAR® 22W CFL	7884	0.022	173.448	0.012	94.608	0.010	78.840	0.010	6	PSP-Business-Large_Hotel-Lighting_Interior_General	55.36
Lighting - Large Non-Food Retail	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 600 and < 800 Lumens	ENERGY STAR® 22W CFL	4089	0.022	89.958	0.012	49.068	0.010	40.890	0.006	11	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	55.36
Lighting - Large Office	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 600 and < 800 Lumens	ENERGY STAR® 22W CFL	3610	0.022	79.420	0.012	43.320	0.010	36.100	0.006	12	PSP-Business-Large_Office-Lighting_Interior_General	55.36
Lighting - Nursing Home	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 600 and < 800 Lumens	ENERGY STAR® 22W CFL	4308	0.022	94.776	0.012	51.696	0.010	43.080	0.007	10	PSP-Business-Nursing_Home-Lighting_Interior_General	55.36
Lighting - Other Non-Food Retail	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 600 and < 800 Lumens	ENERGY STAR® 22W CFL	4089	0.022	89.958	0.012	49.068	0.010	40.890	0.008	11	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	55.36
Lighting - Restaurant	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 600 and < 800 Lumens	ENERGY STAR® 22W CFL	5110	0.022	112.420	0.012	61.320	0.010	51.100	0.008	9	PSP-Business-Restaurant-Lighting_Interior_General	55.36
Lighting - Schools	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 600 and < 800 Lumens	ENERGY STAR® 22W CFL	2596	0.022	57.112	0.012	31.152	0.010	25.960	0.001	17	PSP-Business-Schools-Lighting_Interior_General	55.36
Lighting - University Colleges	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 600 and < 800 Lumens	ENERGY STAR® 22W CFL	3255	0.022	71.610	0.012	39.060	0.010	32.550	0.004	14	PSP-Business-University_Colleges-Lighting_Interior_General	55.36
Lighting - Warehouse Wholesale	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 600 and < 800 Lumens	ENERGY STAR® 22W CFL	3759	0.022	82.698	0.012	45.108	0.010	37.590	0.007	12	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	55.36
Lighting - Food Retail	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 800 Lumens	ENERGY STAR® 26W CFL	6074	0.026	157.924	0.015	92.932	0.011	64.992	0.009	7	PSP-Business-Food_Retail-Lighting_Interior_General	55.82
Lighting - Hospital	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 800 Lumens	ENERGY STAR® 26W CFL	5182	0.026	134.732	0.015	79.285	0.011	55.447	0.007	8	PSP-Business-Hospital-Lighting_Interior_General	55.82
Lighting - Large Hotel (Corridor/Lobby)	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 800 Lumens	ENERGY STAR® 26W CFL	7884	0.026	204.984	0.015	120.625	0.011	84.359	0.010	6	PSP-Business-Large_Hotel-Lighting_Interior_General	55.82
Lighting - Large Non-Food Retail	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 800 Lumens	ENERGY STAR® 26W CFL	4089	0.026	106.314	0.015	62.562	0.011	43.752	0.006	11	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	55.82
Lighting - Large Office	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 800 Lumens	ENERGY STAR® 26W CFL	3610	0.026	93.860	0.015	55.233	0.011	38.627	0.007	12	PSP-Business-Large_Office-Lighting_Interior_General	55.82
Lighting - Nursing Home	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 800 Lumens	ENERGY STAR® 26W CFL	4308	0.026	112.008	0.015	65.912	0.011	46.096	0.007	10	PSP-Business-Nursing_Home-Lighting_Interior_General	55.82



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPERATING_HOURS	BASE_CASE_KW	BASE_CASE_KWH	CONSERVATION_CASE_SE_KW	CONSERVATION_CASE_KWH	FIRST_YEAR_DEMAND_SAVINGS	FIRST_YEAR_ENERGY_SAVINGS	PEAK_DEMAND_SAVINGS	EFFECTIVE_USEFUL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE_COST
Lighting - Food Retail	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 400 and < 600 Lumens	ENERGY STAR® 15W or 18W CFL	6074	0.017	100.221	0.009	57.096	0.007	43.125	0.006	7	PSP-Business-Food_Retail-Lighting_Interior_General	15.71
Lighting - Hospital	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 400 and < 600 Lumens	ENERGY STAR® 15W or 18W CFL	5182	0.017	85.503	0.009	48.711	0.007	36.792	0.005	8	PSP-Business-Hospital-Lighting_Interior_General	15.71
Lighting - Large Hotel (Corridor/Lobby)	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 400 and < 600 Lumens	ENERGY STAR® 15W or 18W CFL	7884	0.017	130.086	0.009	74.110	0.007	55.976	0.007	6	PSP-Business-Large_Hotel-Lighting_Interior_General	15.71
Lighting - Large Non-Food Retail	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 400 and < 600 Lumens	ENERGY STAR® 15W or 18W CFL	4089	0.017	67.469	0.009	38.437	0.007	29.032	0.004	11	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	15.71
Lighting - Large Office	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 400 and < 600 Lumens	ENERGY STAR® 15W or 18W CFL	3610	0.017	59.565	0.009	33.934	0.007	25.631	0.005	12	PSP-Business-Large_Office-Lighting_Interior_General	15.71
Lighting - Nursing Home	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 400 and < 600 Lumens	ENERGY STAR® 15W or 18W CFL	4308	0.017	71.082	0.009	40.495	0.007	30.587	0.005	10	PSP-Business-Nursing_Home-Lighting_Interior_General	15.71
Lighting - Other Non-Food Retail	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 400 and < 600 Lumens	ENERGY STAR® 15W or 18W CFL	4089	0.017	67.469	0.009	38.437	0.007	29.032	0.005	11	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	15.71
Lighting - Restaurant	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 400 and < 600 Lumens	ENERGY STAR® 15W or 18W CFL	5110	0.017	84.315	0.009	48.034	0.007	36.281	0.006	9	PSP-Business-Restaurant-Lighting_Interior_General	15.71
Lighting - Schools	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 400 and < 600 Lumens	ENERGY STAR® 15W or 18W CFL	2596	0.017	42.834	0.009	24.402	0.007	18.432	0.001	17	PSP-Business-Schools-Lighting_Interior_General	15.71
Lighting - University Colleges	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 400 and < 600 Lumens	ENERGY STAR® 15W or 18W CFL	3255	0.017	53.708	0.009	30.597	0.007	23.111	0.003	14	PSP-Business-University_Colleges-Lighting_Interior_General	15.71
Lighting - Warehouse Wholesale	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 400 and < 600 Lumens	ENERGY STAR® 15W or 18W CFL	3759	0.017	62.024	0.009	35.335	0.007	26.689	0.005	12	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	15.71
Lighting - Food Retail	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 600 and < 800 Lumens	ENERGY STAR® 22W CFL	6074	0.022	133.628	0.012	72.888	0.010	60.740	0.009	7	PSP-Business-Food_Retail-Lighting_Interior_General	55.36
Lighting - Hospital	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 600 and < 800 Lumens	ENERGY STAR® 22W CFL	5182	0.022	114.004	0.012	62.184	0.010	51.820	0.007	8	PSP-Business-Hospital-Lighting_Interior_General	55.36
Lighting - Other Commercial Buildings	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 800 Lumens	ENERGY STAR® 26W CFL	4000	0.026	104	0.015	61.200	0.011	42.800	0.007	15	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	55.82
Lighting - Other Commercial Buildings	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 600 and < 800 Lumens	ENERGY STAR® 22W CFL	4000	0.022	88	0.012	48	0.010	40	0.006	15	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	55.36
Lighting - Other Commercial Buildings	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 400 and < 600 Lumens	ENERGY STAR® 15W or 18W CFL	4000	0.017	66	0.009	37.600	0.007	28.400	0.004	15	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	15.71
Lighting - Other Commercial Buildings	LED LOW-BAY FIXTURES	<=100W <=10000 Lumens	Measure mix of 4-lamp Tandem T12, T8 and T5 Strip Fixture	4000	0.115	459.096	0.053	212	0.062	247.096	0.039	18	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	184.00
Lighting - Food Retail	LED LOW-BAY FIXTURES	<=100W <=10000 Lumens	Measure mix of 4-lamp Tandem T12, T8 and T5 Strip Fixture	6074	0.115	697.137	0.053	321.922	0.062	375.215	0.053	8	PSP-Business-Food_Retail-Lighting_Interior_General	184.00
Lighting - Hospital	LED LOW-BAY FIXTURES	<=100W <=10000 Lumens	Measure mix of 4-lamp Tandem T12, T8 and T5 Strip Fixture	5182	0.115	594.758	0.053	274.646	0.062	320.112	0.043	10	PSP-Business-Hospital-Lighting_Interior_General	184.00
Lighting - Large Hotel (Corridor/Lobby)	LED LOW-BAY FIXTURES	<=100W <=10000 Lumens	Measure mix of 4-lamp Tandem T12, T8 and T5 Strip Fixture	7884	0.115	904.878	0.053	417.852	0.062	487.026	0.059	6	PSP-Business-Large_Hotel-Lighting_Interior_General	184.00
Lighting - Large Non-Food Retail	LED LOW-BAY FIXTURES	<=100W <=10000 Lumens	Measure mix of 4-lamp Tandem T12, T8 and T5 Strip Fixture	4089	0.115	469.311	0.053	216.717	0.062	252.594	0.037	12	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	184.00
Lighting - Large Office	LED LOW-BAY FIXTURES	<=100W <=10000 Lumens	Measure mix of 4-lamp Tandem T12, T8 and T5 Strip Fixture	3610	0.115	414.334	0.053	191.330	0.062	223.004	0.040	14	PSP-Business-Large_Office-Lighting_Interior_General	184.00



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPERATING_HOURS	BASE_CASE_KW	BASE_CASE_KWH	CONSERVATION_CASE_SE_KW	CONSERVATION_CASE_KWH	FIRST_YEAR_DEMAND_SAVINGS	FIRST_YEAR_ENERGY_SAVINGS	PEAK_DEMAND_SAVINGS	EFFECTIVE_USEFUL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE_COST
Lighting - Nursing Home	LED LOW-BAY FIXTURES	<=100W <=10000 Lumens	Measure mix of 4-lamp Tandem T12, T8 and T5 Strip Fixture	4308	0.115	494.446	0.053	228.324	0.062	266.122	0.040	12	PSP-Business-Nursing_Home-Lighting_Interior_General	184.00
Lighting - Other Non-Food Retail	LED LOW-BAY FIXTURES	<=100W <=10000 Lumens	Measure mix of 4-lamp Tandem T12, T8 and T5 Strip Fixture	4089	0.115	469.311	0.053	216.717	0.062	252.594	0.047	12	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	184.00
Lighting - Restaurant	LED LOW-BAY FIXTURES	<=100W <=10000 Lumens	Measure mix of 4-lamp Tandem T12, T8 and T5 Strip Fixture	5110	0.115	586.495	0.053	270.830	0.062	315.665	0.052	10	PSP-Business-Restaurant-Lighting_Interior_General	184.00
Lighting - Schools	LED LOW-BAY FIXTURES	<=100W <=10000 Lumens	Measure mix of 4-lamp Tandem T12, T8 and T5 Strip Fixture	2596	0.115	297.953	0.053	137.588	0.062	160.365	0.008	19	PSP-Business-Schools-Lighting_Interior_General	184.00
Lighting - University Colleges	LED LOW-BAY FIXTURES	<=100W <=10000 Lumens	Measure mix of 4-lamp Tandem T12, T8 and T5 Strip Fixture	3255	0.115	373.589	0.053	172.515	0.062	201.074	0.027	15	PSP-Business-University_Colleges-Lighting_Interior_General	184.00
Lighting - Warehouse Wholesale	LED LOW-BAY FIXTURES	<=100W <=10000 Lumens	Measure mix of 4-lamp Tandem T12, T8 and T5 Strip Fixture	3759	0.115	431.435	0.053	199.227	0.062	232.208	0.046	13	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	184.00
Lighting - Nursing Home	LED HIGH BAY FIXTURE	>= 34700 Lumens & >= 305W	Average 1000 watt HID lamp/ T8 HO	4308	0.901	3881.508	0.345	1486.260	0.556	2395.248	0.362	14	PSP-Business-Nursing_Home-Lighting_Interior_General	-135.51
Lighting - Other Non-Food Retail	LED HIGH BAY FIXTURE	>= 34700 Lumens & >= 305W	Average 1000 watt HID lamp/ T8 HO	4089	0.901	3684.189	0.345	1410.705	0.556	2273.484	0.419	14	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	-135.51
Lighting - Restaurant	LED HIGH BAY FIXTURE	>= 34700 Lumens & >= 305W	Average 1000 watt HID lamp/ T8 HO	5110	0.901	4604.110	0.345	1762.950	0.556	2841.160	0.466	12	PSP-Business-Restaurant-Lighting_Interior_General	-135.51
Lighting - Schools	LED HIGH BAY FIXTURE	>= 34700 Lumens & >= 305W	Average 1000 watt HID lamp/ T8 HO	2596	0.901	2338.996	0.345	895.620	0.556	1443.376	0.073	22	PSP-Business-Schools-Lighting_Interior_General	-135.51
Lighting - University Colleges	LED HIGH BAY FIXTURE	>= 34700 Lumens & >= 305W	Average 1000 watt HID lamp/ T8 HO	3255	0.901	2932.755	0.345	1122.975	0.556	1809.780	0.238	18	PSP-Business-University_Colleges-Lighting_Interior_General	-135.51
Lighting - Warehouse Wholesale	LED HIGH BAY FIXTURE	>= 34700 Lumens & >= 305W	Average 1000 watt HID lamp/ T8 HO	3759	0.901	3386.859	0.345	1296.855	0.556	2090.004	0.411	16	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	-135.51
Lighting - Food Retail	LED HIGH BAY FIXTURE	>= 10000 Lumens & < 105W	Average 250 watt HID lamp/ T8 HO	6074	0.236	1433.464	0.086	520.542	0.150	912.922	0.130	10	PSP-Business-Food_Retail-Lighting_Interior_General	-449.44
Lighting - Large Hotel (Corridor/Lobby)	LED HIGH BAY FIXTURE	>= 10000 Lumens & < 105W	Average 250 watt HID lamp/ T8 HO	7884	0.236	1860.624	0.086	675.659	0.150	1184.965	0.143	8	PSP-Business-Large_Hotel-Lighting_Interior_General	-449.44
Lighting - Large Non-Food Retail	LED HIGH BAY FIXTURE	>= 10000 Lumens & < 105W	Average 250 watt HID lamp/ T8 HO	4089	0.236	965.004	0.086	350.427	0.150	614.577	0.091	14	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	-449.44
Lighting - Large Office	LED HIGH BAY FIXTURE	>= 10000 Lumens & < 105W	Average 250 watt HID lamp/ T8 HO	3610	0.236	851.960	0.086	309.377	0.150	542.583	0.097	16	PSP-Business-Large_Office-Lighting_Interior_General	-449.44
Lighting - Nursing Home	LED HIGH BAY FIXTURE	>= 10000 Lumens & < 105W	Average 250 watt HID lamp/ T8 HO	4308	0.236	1016.688	0.086	369.196	0.150	647.492	0.098	14	PSP-Business-Nursing_Home-Lighting_Interior_General	-449.44
Lighting - Other Non-Food Retail	LED HIGH BAY FIXTURE	>= 10000 Lumens & < 105W	Average 250 watt HID lamp/ T8 HO	4089	0.236	965.004	0.086	350.427	0.150	614.577	0.113	14	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	-449.44
Lighting - Restaurant	LED HIGH BAY FIXTURE	>= 10000 Lumens & < 105W	Average 250 watt HID lamp/ T8 HO	5110	0.236	1205.960	0.086	437.927	0.150	768.033	0.126	12	PSP-Business-Restaurant-Lighting_Interior_General	-449.44
Lighting - Schools	LED HIGH BAY FIXTURE	>= 10000 Lumens & < 105W	Average 250 watt HID lamp/ T8 HO	2596	0.236	612.656	0.086	222.477	0.150	390.179	0.020	22	PSP-Business-Schools-Lighting_Interior_General	-449.44
Lighting - University Colleges	LED HIGH BAY FIXTURE	>= 10000 Lumens & < 105W	Average 250 watt HID lamp/ T8 HO	3255	0.236	768.180	0.086	278.954	0.150	489.227	0.064	18	PSP-Business-University_Colleges-Lighting_Interior_General	-449.44
Lighting - Warehouse Wholesale	LED HIGH BAY FIXTURE	>= 10000 Lumens & < 105W	Average 250 watt HID lamp/ T8 HO	3759	0.236	887.124	0.086	322.146	0.150	564.978	0.111	16	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	-449.44

END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPERATING_HOURS	BASE_CASE_KW	BASE_CASE_KWH	CONSERVATION_CASE_SE_KW	CONSERVATION_CASE_KWH	FIRST_YEAR_DEMAND_SAVINGS	FIRST_YEAR_ENERGY_SAVINGS	PEAK_DEMAND_SAVINGS	EFFECTIVE_USEFUL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE_COST
Lighting - Food Retail	LED HIGH BAY FIXTURE	>= 12200 Lumens & < 132W	Average 320 watt HID lamp/ T8 HO	6074	0.289	1755.386	0.102	618.941	0.187	1136.445	0.161	10	PSP-Business-Food_Retail-Lighting_Interior_General	-449.44
Lighting - Large Hotel (Corridor/Lobby)	LED HIGH BAY FIXTURE	>= 12200 Lumens & < 132W	Average 320 watt HID lamp/ T8 HO	7884	0.289	2278.476	0.102	803.380	0.187	1475.096	0.178	8	PSP-Business-Large_Hotel-Lighting_Interior_General	-449.44
Lighting - Large Non-Food Retail	LED HIGH BAY FIXTURE	>= 12200 Lumens & < 132W	Average 320 watt HID lamp/ T8 HO	4089	0.289	1181.721	0.102	416.669	0.187	765.052	0.113	14	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	-449.44
Lighting - Large Office	LED HIGH BAY FIXTURE	>= 12200 Lumens & < 132W	Average 320 watt HID lamp/ T8 HO	3610	0.289	1043.290	0.102	367.859	0.187	675.431	0.121	16	PSP-Business-Large_Office-Lighting_Interior_General	-449.44
Lighting - Nursing Home	LED HIGH BAY FIXTURE	>= 12200 Lumens & < 132W	Average 320 watt HID lamp/ T8 HO	4308	0.289	1245.012	0.102	438.985	0.187	806.027	0.122	14	PSP-Business-Nursing_Home-Lighting_Interior_General	-449.44
Lighting - Other Non-Food Retail	LED HIGH BAY FIXTURE	>= 12200 Lumens & < 132W	Average 320 watt HID lamp/ T8 HO	4089	0.289	1181.721	0.102	416.669	0.187	765.052	0.141	14	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	-449.44
Lighting - Restaurant	LED HIGH BAY FIXTURE	>= 12200 Lumens & < 132W	Average 320 watt HID lamp/ T8 HO	5110	0.289	1476.790	0.102	520.709	0.187	956.081	0.157	12	PSP-Business-Restaurant-Lighting_Interior_General	-449.44
Lighting - Schools	LED HIGH BAY FIXTURE	>= 12200 Lumens & < 132W	Average 320 watt HID lamp/ T8 HO	2596	0.289	750.244	0.102	264.532	0.187	485.712	0.024	22	PSP-Business-Schools-Lighting_Interior_General	-449.44
Lighting - Food Retail	LED HIGH BAY FIXTURE	>= 15500 Lumens & < 178W	Average 400 watt HID lamp/ T8 HO	6074	0.367	2229.158	0.139	844.286	0.228	1384.872	0.197	10	PSP-Business-Food_Retail-Lighting_Interior_General	-135.51
Lighting - Hospital	LED HIGH BAY FIXTURE	>= 15500 Lumens & < 178W	Average 400 watt HID lamp/ T8 HO	5182	0.367	1901.794	0.139	720.298	0.228	1181.496	0.158	11	PSP-Business-Hospital-Lighting_Interior_General	-135.51
Lighting - Large Hotel (Corridor/Lobby)	LED HIGH BAY FIXTURE	>= 15500 Lumens & < 178W	Average 400 watt HID lamp/ T8 HO	7884	0.367	2893.428	0.139	1095.876	0.228	1797.552	0.217	8	PSP-Business-Large_Hotel-Lighting_Interior_General	-135.51
Lighting - Large Non-Food Retail	LED HIGH BAY FIXTURE	>= 15500 Lumens & < 178W	Average 400 watt HID lamp/ T8 HO	4089	0.367	1500.663	0.139	568.371	0.228	932.292	0.138	14	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	-135.51
Lighting - Large Office	LED HIGH BAY FIXTURE	>= 15500 Lumens & < 178W	Average 400 watt HID lamp/ T8 HO	3610	0.367	1324.870	0.139	501.790	0.228	823.080	0.147	16	PSP-Business-Large_Office-Lighting_Interior_General	-135.51
Lighting - Nursing Home	LED HIGH BAY FIXTURE	>= 15500 Lumens & < 178W	Average 400 watt HID lamp/ T8 HO	4308	0.367	1581.036	0.139	598.812	0.228	982.224	0.149	14	PSP-Business-Nursing_Home-Lighting_Interior_General	-135.51
Lighting - University Colleges	LED HIGH BAY FIXTURE	>= 12200 Lumens & < 132W	Average 320 watt HID lamp/ T8 HO	3255	0.289	940.695	0.102	331.685	0.187	609.011	0.080	18	PSP-Business-University_Colleges-Lighting_Interior_General	-449.44
Lighting - Warehouse Wholesale	LED HIGH BAY FIXTURE	>= 12200 Lumens & < 132W	Average 320 watt HID lamp/ T8 HO	3759	0.289	1086.351	0.102	383.042	0.187	703.309	0.138	16	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	-449.44
Lighting - Other Non-Food Retail	LED HIGH BAY FIXTURE	>= 15,500 Lumens & < 178W	Average 400 watt HID lamp/ T8 HO	4089	0.367	1500.663	0.139	568.371	0.228	932.292	0.172	14	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	-135.51
Lighting - Restaurant	LED HIGH BAY FIXTURE	>= 15500 Lumens & < 178W	Average 400 watt HID lamp/ T8 HO	5110	0.367	1875.370	0.139	710.290	0.228	1165.080	0.191	12	PSP-Business-Restaurant-Lighting_Interior_General	-135.51
Lighting - Schools	LED HIGH BAY FIXTURE	>= 15500 Lumens & < 178W	Average 400 watt HID lamp/ T8 HO	2596	0.367	952.732	0.139	360.844	0.228	591.888	0.030	22	PSP-Business-Schools-Lighting_Interior_General	-135.51
Lighting - University Colleges	LED HIGH BAY FIXTURE	>= 15500 Lumens & < 178W	Average 400 watt HID lamp/ T8 HO	3255	0.367	1194.585	0.139	452.445	0.228	742.140	0.098	18	PSP-Business-University_Colleges-Lighting_Interior_General	-135.51
Lighting - Warehouse Wholesale	LED HIGH BAY FIXTURE	>= 15500 Lumens & < 178W	Average 400 watt HID lamp/ T8 HO	3759	0.367	1379.553	0.139	522.501	0.228	857.052	0.168	16	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	-135.51
Lighting - Food Retail	LED HIGH BAY FIXTURE	>= 20100 Lumens & < 305W	Average 750 watt HID lamp/ T8 HO	6074	0.634	3850.916	0.194	1178.356	0.440	2672.560	0.380	10	PSP-Business-Food_Retail-Lighting_Interior_General	-135.51

END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPERATING_HOURS	BASE_CASE_KW	BASE_CASE_KWH	CONSERVATION_CASE_SE_KW	CONSERVATION_CASE_KWH	FIRST_YEAR_DEMAND_SAVINGS	FIRST_YEAR_ENERGY_SAVINGS	PEAK_DEMAND_SAVINGS	EFFECTIVE_USEFUL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE_COST
Lighting - Hospital	LED HIGH BAY FIXTURE	>= 20100 Lumens < 305W	Average 750 watt HID lamp/ T8 HO	5182	0.634	3285.388	0.194	1005.308	0.440	2280.080	0.304	11	PSP-Business-Hospital-Lighting_Interior_General	-135.51
Lighting - Large Hotel (Corridor/Lobby)	LED HIGH BAY FIXTURE	>= 20100 Lumens < 305W	Average 750 watt HID lamp/ T8 HO	7884	0.634	4998.456	0.194	1529.496	0.440	3468.960	0.419	8	PSP-Business-Large_Hotel-Lighting_Interior_General	-135.51
Lighting - Large Non-Food Retail	LED HIGH BAY FIXTURE	>= 20100 Lumens < 305W	Average 750 watt HID lamp/ T8 HO	4089	0.634	2592.426	0.194	793.266	0.440	1799.160	0.267	14	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	-135.51
Lighting - Large Office	LED HIGH BAY FIXTURE	>= 20100 Lumens < 305W	Average 750 watt HID lamp/ T8 HO	3610	0.634	2288.740	0.194	700.340	0.440	1588.400	0.284	16	PSP-Business-Large_Office-Lighting_Interior_General	-135.51
Lighting - Nursing Home	LED HIGH BAY FIXTURE	>= 20100 Lumens < 305W	Average 750 watt HID lamp/ T8 HO	4308	0.634	2731.272	0.194	835.752	0.440	1895.520	0.287	14	PSP-Business-Nursing_Home-Lighting_Interior_General	-135.51
Lighting - Other Non-Food Retail	LED HIGH BAY FIXTURE	>= 20100 Lumens < 305W	Average 750 watt HID lamp/ T8 HO	4089	0.634	2592.426	0.194	793.266	0.440	1799.160	0.332	14	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	-135.51
Lighting - Restaurant	LED HIGH BAY FIXTURE	>= 20100 Lumens < 305W	Average 750 watt HID lamp/ T8 HO	5110	0.634	3239.740	0.194	991.340	0.440	2248.400	0.369	12	PSP-Business-Restaurant-Lighting_Interior_General	-135.51
Lighting - Schools	LED HIGH BAY FIXTURE	>= 20100 Lumens < 305W	Average 750 watt HID lamp/ T8 HO	2596	0.634	1645.864	0.194	503.624	0.440	1142.240	0.057	22	PSP-Business-Schools-Lighting_Interior_General	-135.51
Lighting - University Colleges	LED HIGH BAY FIXTURE	>= 20100 Lumens < 305W	Average 750 watt HID lamp/ T8 HO	3255	0.634	2063.670	0.194	631.470	0.440	1432.200	0.189	18	PSP-Business-University_Colleges-Lighting_Interior_General	-135.51
Lighting - Warehouse Wholesale	LED HIGH BAY FIXTURE	>= 20100 Lumens < 305W	Average 750 watt HID lamp/ T8 HO	3759	0.634	2383.206	0.194	729.246	0.440	1653.960	0.325	16	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	-135.51
Lighting - Food Retail	LED HIGH BAY FIXTURE	>= 34700 Lumens & >= 305W	Average 1000 watt HID lamp/ T8 HO	6074	0.901	5472.674	0.345	2095.530	0.556	3377.144	0.480	10	PSP-Business-Food_Retail-Lighting_Interior_General	-135.51
Lighting - Hospital	LED HIGH BAY FIXTURE	>= 34700 Lumens & >= 305W	Average 1000 watt HID lamp/ T8 HO	5182	0.901	4668.982	0.345	1787.790	0.556	2881.192	0.385	11	PSP-Business-Hospital-Lighting_Interior_General	-135.51
Lighting - Large Hotel (Corridor/Lobby)	LED HIGH BAY FIXTURE	>= 34700 Lumens & >= 305W	Average 1000 watt HID lamp/ T8 HO	7884	0.901	7103.484	0.345	2719.980	0.556	4383.504	0.530	8	PSP-Business-Large_Hotel-Lighting_Interior_General	-135.51
Lighting - Large Non-Food Retail	LED HIGH BAY FIXTURE	>= 34700 Lumens & >= 305W	Average 1000 watt HID lamp/ T8 HO	4089	0.901	3684.189	0.345	1410.705	0.556	2273.484	0.337	14	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	-135.51
Lighting - Large Office	LED HIGH BAY FIXTURE	>= 34700 Lumens & >= 305W	Average 1000 watt HID lamp/ T8 HO	3610	0.901	3252.610	0.345	1245.450	0.556	2007.160	0.358	16	PSP-Business-Large_Office-Lighting_Interior_General	-135.51
Lighting - Hospital	LED HIGH BAY FIXTURE	>= 10000 Lumens & < 105W	Average 250 watt HID lamp/ T8 HO	5182	0.236	1222.952	0.086	444.097	0.150	778.855	0.104	11	PSP-Business-Hospital-Lighting_Interior_General	-449.44
Lighting - Hospital	LED HIGH BAY FIXTURE	>= 12200 Lumens & < 132W	Average 320 watt HID lamp/ T8 HO	5182	0.289	1497.598	0.102	528.046	0.187	969.552	0.129	11	PSP-Business-Hospital-Lighting_Interior_General	-449.44
Lighting - Other Commercial Buildings	LED HIGH BAY FIXTURE	>= 34700 Lumens & >= 305W	Average 1000 watt HID lamp/ T8 HO	4000	0.901	3604.000	0.345	1380.000	0.556	2224	0.351	20	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	-135.51
Lighting - Other Commercial Buildings	LED HIGH BAY FIXTURE	>= 10000 Lumens & < 105W	Average 250 watt HID lamp/ T8 HO	4000	0.236	944.000	0.086	342.800	0.150	601.200	0.095	20	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	-449.44
Lighting - Other Commercial Buildings	LED HIGH BAY FIXTURE	>= 12200 Lumens & < 132W	Average 320 watt HID lamp/ T8 HO	4000	0.289	1156.000	0.102	407.600	0.187	748.400	0.118	20	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	-449.44
Lighting - Other Commercial Buildings	LED HIGH BAY FIXTURE	>= 15500 Lumens & < 178W	Average 400 watt HID lamp/ T8 HO	4000	0.367	1468.000	0.139	556.000	0.228	912	0.144	20	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	-135.51
Lighting - Other Commercial Buildings	LED HIGH BAY FIXTURE	>= 20100 Lumens & < 305W	Average 750 watt HID lamp/ T8 HO	4000	0.634	2536.000	0.194	776.000	0.440	1760	0.278	20	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	-135.51

END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPERATING_HOURS	BASE_CASE_KW	BASE_CASE_KWH	CONSERVATION_CASE_SE_KW	CONSERVATION_CASE_KWH	FIRST_YEAR_DEMAND_SAVINGS	FIRST_YEAR_ENERGY_SAVINGS	PEAK_DEMAND_SAVINGS	EFFECTIVE_USEFUL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE_COST
Lighting - Other Commercial Buildings	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	1' x 4' LED troffer / 4' LED linear ambient retrofit kit (>= 1500 Lumens)	Measure Mix of 4' T12 40W and T8 32W - 2 lamps	4000	0.064	257.489	0.031	124.000	0.033	133.489	0.021	18	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	83.95
Lighting - Other Commercial Buildings	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	2' x 4' LED troffer / 4' linear ambient retrofit kit (>= 3000 Lumens)	Measure Mix of 4' T12 40W and T8 32W - 3 lamps	4000	0.092	367.651	0.042	168.000	0.050	199.651	0.032	18	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	104.06
Lighting - Other Commercial Buildings	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	2' x 2' LED troffer / 2' linear ambient retrofit kit (>= 2000 Lumens)	Measure Mix of T12U-bend 34W and T8U-bend 32W - 2 lamps	4000	0.066	264.674	0.032	128.000	0.034	136.674	0.022	18	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	38.87
Lighting - Nursing Home	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	1' x 4' LED troffer / 4' LED linear ambient retrofit kit (>= 1500 Lumens)	Measure Mix of 4' T12 40W and T8 32W - 2 lamps	4308	0.064	277.316	0.031	133.548	0.033	143.768	0.022	12	PSP-Business-Nursing_Home-Lighting_Interior_General	83.95
Lighting - Other Non-Food Retail	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	1' x 4' LED troffer / 4' LED linear ambient retrofit kit (>= 1500 Lumens)	Measure Mix of 4' T12 40W and T8 32W - 2 lamps	4089	0.064	263.219	0.031	126.759	0.033	136.460	0.025	12	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	83.95
Lighting - Restaurant	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	1' x 4' LED troffer / 4' LED linear ambient retrofit kit (>= 1500 Lumens)	Measure Mix of 4' T12 40W and T8 32W - 2 lamps	5110	0.064	328.943	0.031	158.410	0.033	170.533	0.028	10	PSP-Business-Restaurant-Lighting_Interior_General	83.95
Lighting - Schools	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	1' x 4' LED troffer / 4' LED linear ambient retrofit kit (>= 1500 Lumens)	Measure Mix of 4' T12 40W and T8 32W - 2 lamps	2596	0.064	167.111	0.031	80.476	0.033	86.635	0.004	19	PSP-Business-Schools-Lighting_Interior_General	83.95
Lighting - University Colleges	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	1' x 4' LED troffer / 4' LED linear ambient retrofit kit (>= 1500 Lumens)	Measure Mix of 4' T12 40W and T8 32W - 2 lamps	3255	0.064	209.532	0.031	100.905	0.033	108.627	0.014	15	PSP-Business-University_Colleges-Lighting_Interior_General	83.95
Lighting - Warehouse Wholesale	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	1' x 4' LED troffer / 4' LED linear ambient retrofit kit (>= 1500 Lumens)	Measure Mix of 4' T12 40W and T8 32W - 2 lamps	3759	0.064	241.976	0.031	116.529	0.033	125.447	0.025	13	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	83.95
Lighting - Food Retail	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	2' x 4' LED troffer / 4' linear ambient retrofit kit (>= 3000 Lumens)	Measure Mix of 4' T12 40W and T8 32W - 3 lamps	6074	0.092	558.278	0.042	255.108	0.050	303.170	0.043	8	PSP-Business-Food_Retail-Lighting_Interior_General	104.06
Lighting - Hospital	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	2' x 4' LED troffer / 4' linear ambient retrofit kit (>= 3000 Lumens)	Measure Mix of 4' T12 40W and T8 32W - 3 lamps	5182	0.092	476.292	0.042	217.644	0.050	258.648	0.035	10	PSP-Business-Hospital-Lighting_Interior_General	104.06
Lighting - Large Hotel (Corridor/Lobby)	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	2' x 4' LED troffer / 4' linear ambient retrofit kit (>= 3000 Lumens)	Measure Mix of 4' T12 40W and T8 32W - 3 lamps	7884	0.092	724.640	0.042	331.128	0.050	393.512	0.048	6	PSP-Business-Large_Hotel-Lighting_Interior_General	104.06
Lighting - Large Non-Food Retail	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	2' x 4' LED troffer / 4' linear ambient retrofit kit (>= 3000 Lumens)	Measure Mix of 4' T12 40W and T8 32W - 3 lamps	4089	0.092	375.831	0.042	171.738	0.050	204.093	0.030	12	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	104.06
Lighting - Large Office	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	2' x 4' LED troffer / 4' linear ambient retrofit kit (>= 3000 Lumens)	Measure Mix of 4' T12 40W and T8 32W - 3 lamps	3610	0.092	331.805	0.042	151.620	0.050	180.185	0.032	14	PSP-Business-Large_Office-Lighting_Interior_General	104.06
Lighting - Nursing Home	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	2' x 4' LED troffer / 4' linear ambient retrofit kit (>= 3000 Lumens)	Measure Mix of 4' T12 40W and T8 32W - 3 lamps	4308	0.092	395.960	0.042	180.936	0.050	215.024	0.033	12	PSP-Business-Nursing_Home-Lighting_Interior_General	104.06
Lighting - Other Non-Food Retail	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	2' x 4' LED troffer / 4' linear ambient retrofit kit (>= 3000 Lumens)	Measure Mix of 4' T12 40W and T8 32W - 3 lamps	4089	0.092	375.831	0.042	171.738	0.050	204.093	0.038	12	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	104.06
Lighting - Restaurant	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	2' x 4' LED troffer / 4' linear ambient retrofit kit (>= 3000 Lumens)	Measure Mix of 4' T12 40W and T8 32W - 3 lamps	5110	0.092	469.674	0.042	214.620	0.050	255.054	0.042	10	PSP-Business-Restaurant-Lighting_Interior_General	104.06
Lighting - Schools	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	2' x 4' LED troffer / 4' linear ambient retrofit kit (>= 3000 Lumens)	Measure Mix of 4' T12 40W and T8 32W - 3 lamps	2596	0.092	238.606	0.042	109.032	0.050	129.574	0.007	19	PSP-Business-Schools-Lighting_Interior_General	104.06
Lighting - University Colleges	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	2' x 4' LED troffer / 4' linear ambient retrofit kit (>= 3000 Lumens)	Measure Mix of 4' T12 40W and T8 32W - 3 lamps	3255	0.092	299.176	0.042	136.710	0.050	162.466	0.021	15	PSP-Business-University_Colleges-Lighting_Interior_General	104.06
Lighting - Warehouse Wholesale	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	2' x 4' LED troffer / 4' linear ambient retrofit kit (>= 3000 Lumens)	Measure Mix of 4' T12 40W and T8 32W - 3 lamps	3759	0.092	345.500	0.042	157.878	0.050	187.622	0.037	13	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	104.06
Lighting - Food Retail	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	1' x 4' LED troffer / 4' LED linear ambient retrofit kit (>= 1500 Lumens)	Measure Mix of 4' T12 40W and T8 32W - 2 lamps	6074	0.064	390.998	0.031	188.294	0.033	202.704	0.029	8	PSP-Business-Food_Retail-Lighting_Interior_General	83.95
Lighting - Hospital	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	1' x 4' LED troffer / 4' LED linear ambient retrofit kit (>= 1500 Lumens)	Measure Mix of 4' T12 40W and T8 32W - 2 lamps	5182	0.064	333.577	0.031	160.642	0.033	172.935	0.023	10	PSP-Business-Hospital-Lighting_Interior_General	83.95

END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPERATING_HOURS	BASE_CASE_KW	BASE_CASE_KWH	CONSERVATION_CASE_KW	CONSERVATION_CASE_KWH	FIRST_YEAR_DEMAND_SAVINGS	FIRST_YEAR_ENERGY_SAVINGS	PEAK_DEMAND_SAVINGS	EFFECTIVE_USEFUL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE_COST
Lighting - Large Hotel (Corridor/Lobby)	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	1' x 4' LED troffer / 4' LED linear ambient retrofit kit (>= 1500 Lumens)	Measure Mix of 4' T12 40W and T8 32W - 2 lamps	7884	0.064	507.512	0.031	244.404	0.033	263.108	0.032	6	PSP-Business-Large_Hotel-Lighting_Interior_General	83.95
Lighting - Large Non-Food Retail	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	1' x 4' LED troffer / 4' LED linear ambient retrofit kit (>= 1500 Lumens)	Measure Mix of 4' T12 40W and T8 32W - 2 lamps	4089	0.064	263.219	0.031	126.759	0.033	136.460	0.020	12	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	83.95
Lighting - Large Office	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	1' x 4' LED troffer / 4' LED linear ambient retrofit kit (>= 1500 Lumens)	Measure Mix of 4' T12 40W and T8 32W - 2 lamps	3610	0.064	232.384	0.031	111.910	0.033	120.474	0.022	14	PSP-Business-Large_Office-Lighting_Interior_General	83.95
Lighting - Food Retail	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	2' x 2' LED troffer / 2' linear ambient retrofit kit (>= 2000 Lumens)	Measure Mix of T12U-bend 34W and T8U-bend 32W - 2 lamps	6074	0.066	401.907	0.032	194.368	0.034	207.539	0.029	8	PSP-Business-Food_Retail-Lighting_Interior_General	38.87
Lighting - Hospital	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	2' x 2' LED troffer / 2' linear ambient retrofit kit (>= 2000 Lumens)	Measure Mix of T12U-bend 34W and T8U-bend 32W - 2 lamps	5182	0.066	342.885	0.032	165.824	0.034	177.061	0.024	10	PSP-Business-Hospital-Lighting_Interior_General	38.87
Lighting - Large Hotel (Corridor/Lobby)	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	2' x 2' LED troffer / 2' linear ambient retrofit kit (>= 2000 Lumens)	Measure Mix of T12U-bend 34W and T8U-bend 32W - 2 lamps	7884	0.066	521.672	0.032	252.288	0.034	269.384	0.033	6	PSP-Business-Large_Hotel-Lighting_Interior_General	38.87
Lighting - Large Non-Food Retail	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	2' x 2' LED troffer / 2' linear ambient retrofit kit (>= 2000 Lumens)	Measure Mix of T12U-bend 34W and T8U-bend 32W - 2 lamps	4089	0.066	270.563	0.032	130.848	0.034	139.715	0.021	12	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	38.87
Lighting - Large Office	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	2' x 2' LED troffer / 2' linear ambient retrofit kit (>= 2000 Lumens)	Measure Mix of T12U-bend 34W and T8U-bend 32W - 2 lamps	3610	0.066	238.868	0.032	115.520	0.034	123.348	0.022	14	PSP-Business-Large_Office-Lighting_Interior_General	38.87
Lighting - Nursing Home	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	2' x 2' LED troffer / 2' linear ambient retrofit kit (>= 2000 Lumens)	Measure Mix of T12U-bend 34W and T8U-bend 32W - 2 lamps	4308	0.066	285.054	0.032	137.856	0.034	147.198	0.022	12	PSP-Business-Nursing_Home-Lighting_Interior_General	38.87
Lighting - Other Non-Food Retail	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	2' x 2' LED troffer / 2' linear ambient retrofit kit (>= 2000 Lumens)	Measure Mix of T12U-bend 34W and T8U-bend 32W - 2 lamps	4089	0.066	270.563	0.032	130.848	0.034	139.715	0.026	12	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	38.87
Lighting - Restaurant	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	2' x 2' LED troffer / 2' linear ambient retrofit kit (>= 2000 Lumens)	Measure Mix of T12U-bend 34W and T8U-bend 32W - 2 lamps	5110	0.066	338.121	0.032	163.520	0.034	174.601	0.029	10	PSP-Business-Restaurant-Lighting_Interior_General	38.87
Lighting - Schools	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	2' x 2' LED troffer / 2' linear ambient retrofit kit (>= 2000 Lumens)	Measure Mix of T12U-bend 34W and T8U-bend 32W - 2 lamps	2596	0.066	171.773	0.032	83.072	0.034	88.701	0.004	19	PSP-Business-Schools-Lighting_Interior_General	38.87
Lighting - University Colleges	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	2' x 2' LED troffer / 2' linear ambient retrofit kit (>= 2000 Lumens)	Measure Mix of T12U-bend 34W and T8U-bend 32W - 2 lamps	3255	0.066	215.378	0.032	104.160	0.034	111.218	0.015	15	PSP-Business-University_Colleges-Lighting_Interior_General	38.87
Lighting - Warehouse Wholesale	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	2' x 2' LED troffer / 2' linear ambient retrofit kit (>= 2000 Lumens)	Measure Mix of T12U-bend 34W and T8U-bend 32W - 2 lamps	3759	0.066	248.727	0.032	120.288	0.034	128.439	0.025	13	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	38.87
Lighting - Other Commercial Buildings	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	1' x 4' LED troffer / 4' LED linear ambient fixture (>= 1500 Lumens)	Measure Mix of 4' T12 40W and T8 32W - 2 lamps	4000	0.064	257.538	0.039	154.400	0.026	103.138	0.016	18	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	114.37
Lighting - Other Commercial Buildings	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	2' x 2' LED troffer / 2' LED linear ambient fixture (>= 2000 Lumens)	Measure Mix of T12U-bend 34W and T8U-bend 32W - 2 lamps	4000	0.066	264.716	0.039	156.000	0.027	108.716	0.017	18	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	61.99
Lighting - Other Commercial Buildings	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	2' x 4' LED troffer / 4' LED linear ambient fixture (>= 3000 Lumens)	Measure Mix of 4' T12 40W and T8 32W - 3 lamps	4000	0.092	367.731	0.044	176.000	0.048	191.720	0.0303	18	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	116.78
Lighting - Schools	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	2' x 4' LED troffer / 4' LED linear ambient fixture (>= 3000 Lumens)	Measure Mix of 4' T12 40W and T8 32W - 3 lamps	2596	0.092	238.657	0.044	114.224	0.048	124.426	0.0063	19	PSP-Business-Schools-Lighting_Interior_General	116.78
Lighting - University Colleges	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	2' x 4' LED troffer / 4' LED linear ambient fixture (>= 3000 Lumens)	Measure Mix of 4' T12 40W and T8 32W - 3 lamps	3255	0.092	299.241	0.044	143.220	0.048	156.012	0.0206	15	PSP-Business-University_Colleges-Lighting_Interior_General	116.78
Lighting - Warehouse Wholesale	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	2' x 4' LED troffer / 4' LED linear ambient fixture (>= 3000 Lumens)	Measure Mix of 4' T12 40W and T8 32W - 3 lamps	3759	0.092	345.575	0.044	165.396	0.048	180.169	0.0354	13	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	116.78
Lighting - Food Retail	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	1' x 4' LED troffer / 4' LED linear ambient fixture (>= 1500 Lumens)	Measure Mix of 4' T12 40W and T8 32W - 2 lamps	6074	0.064	391.072	0.039	234.456	0.026	156.615	0.022	8	PSP-Business-Food_Retail-Lighting_Interior_General	114.37
Lighting - Hospital	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	1' x 4' LED troffer / 4' LED linear ambient fixture (>= 1500 Lumens)	Measure Mix of 4' T12 40W and T8 32W - 2 lamps	5182	0.064	333.641	0.039	200.025	0.026	133.616	0.018	10	PSP-Business-Hospital-Lighting_Interior_General	114.37



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPERATING_HOURS	BASE_CASE_KW	BASE_CASE_KWH	CONSERVATION_CASE_KW	CONSERVATION_CASE_KWH	FIRST_YEAR_DEMAND_SAVINGS	FIRST_YEAR_ENERGY_SAVINGS	PEAK_DEMAND_SAVINGS	EFFECTIVE_USEFUL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE_COST
Lighting - Large Hotel (Corridor/Lobby)	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	1' x 4' LED troffer / 4' LED linear ambient fixture (>= 1500 Lumens)	Measure Mix of 4' T12 40W and T8 32W - 2 lamps	7884	0.064	507.608	0.039	304.322	0.026	203.286	0.025	6	PSP-Business-Large_Hotel-Lighting_Interior_General	114.37
Lighting - Large Non-Food Retail	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	1' x 4' LED troffer / 4' LED linear ambient fixture (>= 1500 Lumens)	Measure Mix of 4' T12 40W and T8 32W - 2 lamps	4089	0.064	263.269	0.039	157.835	0.026	105.433	0.016	12	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	114.37
Lighting - Large Office	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	1' x 4' LED troffer / 4' LED linear ambient fixture (>= 1500 Lumens)	Measure Mix of 4' T12 40W and T8 32W - 2 lamps	3610	0.064	232.428	0.039	139.346	0.026	93.082	0.017	14	PSP-Business-Large_Office-Lighting_Interior_General	114.37
Lighting - Nursing Home	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	1' x 4' LED troffer / 4' LED linear ambient fixture (>= 1500 Lumens)	Measure Mix of 4' T12 40W and T8 32W - 2 lamps	4308	0.064	277.369	0.039	166.289	0.026	111.080	0.017	12	PSP-Business-Nursing_Home-Lighting_Interior_General	114.37
Lighting - Other Non-Food Retail	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	1' x 4' LED troffer / 4' LED linear ambient fixture (>= 1500 Lumens)	Measure Mix of 4' T12 40W and T8 32W - 2 lamps	4089	0.064	263.269	0.039	157.835	0.026	105.433	0.019	12	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	114.37
Lighting - Restaurant	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	1' x 4' LED troffer / 4' LED linear ambient fixture (>= 1500 Lumens)	Measure Mix of 4' T12 40W and T8 32W - 2 lamps	5110	0.064	329.005	0.039	197.246	0.026	131.759	0.022	10	PSP-Business-Restaurant-Lighting_Interior_General	114.37
Lighting - Schools	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	1' x 4' LED troffer / 4' LED linear ambient fixture (>= 1500 Lumens)	Measure Mix of 4' T12 40W and T8 32W - 2 lamps	2596	0.064	167.142	0.039	100.206	0.026	66.937	0.003	19	PSP-Business-Schools-Lighting_Interior_General	114.37
Lighting - University Colleges	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	1' x 4' LED troffer / 4' LED linear ambient fixture (>= 1500 Lumens)	Measure Mix of 4' T12 40W and T8 32W - 2 lamps	3255	0.064	209.572	0.039	125.643	0.026	83.929	0.011	15	PSP-Business-University_Colleges-Lighting_Interior_General	114.37
Lighting - Warehouse Wholesale	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	1' x 4' LED troffer / 4' LED linear ambient fixture (>= 1500 Lumens)	Measure Mix of 4' T12 40W and T8 32W - 2 lamps	3759	0.064	242.022	0.039	145.097	0.026	96.924	0.019	13	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	114.37
Lighting - Food Retail	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	2' x 2' LED troffer / 2' LED linear ambient fixture (>= 2000 Lumens)	Measure Mix of T12U-bend 34W and T8U-bend 32W - 2 lamps	6074	0.066	401.972	0.039	236.886	0.027	165.086	0.023	8	PSP-Business-Food_Retail-Lighting_Interior_General	61.99
Lighting - Hospital	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	2' x 2' LED troffer / 2' LED linear ambient fixture (>= 2000 Lumens)	Measure Mix of T12U-bend 34W and T8U-bend 32W - 2 lamps	5182	0.066	342.940	0.039	202.098	0.027	140.842	0.019	10	PSP-Business-Hospital-Lighting_Interior_General	61.99
Lighting - Large Hotel (Corridor/Lobby)	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	2' x 2' LED troffer / 2' LED linear ambient fixture (>= 2000 Lumens)	Measure Mix of T12U-bend 34W and T8U-bend 32W - 2 lamps	7884	0.066	521.756	0.039	307.476	0.027	214.280	0.026	6	PSP-Business-Large_Hotel-Lighting_Interior_General	61.99
Lighting - Large Non-Food Retail	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	2' x 2' LED troffer / 2' LED linear ambient fixture (>= 2000 Lumens)	Measure Mix of T12U-bend 34W and T8U-bend 32W - 2 lamps	4089	0.066	270.606	0.039	159.471	0.027	111.135	0.016	12	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	61.99
Lighting - Large Office	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	2' x 2' LED troffer / 2' LED linear ambient fixture (>= 2000 Lumens)	Measure Mix of T12U-bend 34W and T8U-bend 32W - 2 lamps	3610	0.066	238.907	0.039	140.790	0.027	98.117	0.018	14	PSP-Business-Large_Office-Lighting_Interior_General	61.99
Lighting - Nursing Home	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	2' x 2' LED troffer / 2' LED linear ambient fixture (>= 2000 Lumens)	Measure Mix of T12U-bend 34W and T8U-bend 32W - 2 lamps	4308	0.066	285.100	0.039	168.012	0.027	117.088	0.018	12	PSP-Business-Nursing_Home-Lighting_Interior_General	61.99
Lighting - Other Non-Food Retail	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	2' x 2' LED troffer / 2' LED linear ambient fixture (>= 2000 Lumens)	Measure Mix of T12U-bend 34W and T8U-bend 32W - 2 lamps	4089	0.066	270.606	0.039	159.471	0.027	111.135	0.021	12	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	61.99
Lighting - Restaurant	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	2' x 2' LED troffer / 2' LED linear ambient fixture (>= 2000 Lumens)	Measure Mix of T12U-bend 34W and T8U-bend 32W - 2 lamps	5110	0.066	338.175	0.039	199.290	0.027	138.885	0.023	10	PSP-Business-Restaurant-Lighting_Interior_General	61.99
Lighting - Schools	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	2' x 2' LED troffer / 2' LED linear ambient fixture (>= 2000 Lumens)	Measure Mix of T12U-bend 34W and T8U-bend 32W - 2 lamps	2596	0.066	171.801	0.039	101.244	0.027	70.557	0.004	19	PSP-Business-Schools-Lighting_Interior_General	61.99
Lighting - University Colleges	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	2' x 2' LED troffer / 2' LED linear ambient fixture (>= 2000 Lumens)	Measure Mix of T12U-bend 34W and T8U-bend 32W - 2 lamps	3255	0.066	215.413	0.039	126.945	0.027	88.468	0.012	15	PSP-Business-University_Colleges-Lighting_Interior_General	61.99
Lighting - Warehouse Wholesale	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	2' x 2' LED troffer / 2' LED linear ambient fixture (>= 2000 Lumens)	Measure Mix of T12U-bend 34W and T8U-bend 32W - 2 lamps	3759	0.066	248.767	0.039	146.601	0.027	102.166	0.020	13	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	61.99
Lighting - Food Retail	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	2' x 4' LED troffer / 4' LED linear ambient fixture (>= 3000 Lumens)	Measure Mix of 4' T12 40W and T8 32W - 3 lamps	6074	0.092	558.399	0.044	267.256	0.048	291.127	0.0414	8	PSP-Business-Food_Retail-Lighting_Interior_General	116.78
Lighting - Hospital	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	2' x 4' LED troffer / 4' LED linear ambient fixture (>= 3000 Lumens)	Measure Mix of 4' T12 40W and T8 32W - 3 lamps	5182	0.092	476.395	0.044	228.008	0.048	248.373	0.0332	10	PSP-Business-Hospital-Lighting_Interior_General	116.78



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPERATING_HOURS	BASE_CASE_KW	BASE_CASE_KWH	CONSERVATION_CASE_KW	CONSERVATION_CASE_KWH	FIRST_YEAR_DEMAND_SAVINGS	FIRST_YEAR_ENERGY_SAVINGS	PEAK_DEMAND_SAVINGS	EFFECTIVE_USEFUL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE_COST
Lighting - Large Hotel (Corridor/Lobby)	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	2' x 4' LED troffer / 4' LED linear ambient fixture (>= 3000 Lumens)	Measure Mix of 4' T12 40W and T8 32W - 3 lamps	7884	0.092	724.797	0.044	346.896	0.048	377.880	0.0457	6	PSP-Business-Large_Hotel-Lighting_Interior_General	116.78
Lighting - Large Non-Food Retail	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	2' x 4' LED troffer / 4' LED linear ambient fixture (>= 3000 Lumens)	Measure Mix of 4' T12 40W and T8 32W - 3 lamps	4089	0.092	375.913	0.044	179.916	0.048	195.986	0.0291	12	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	116.78
Lighting - Large Office	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	2' x 4' LED troffer / 4' LED linear ambient fixture (>= 3000 Lumens)	Measure Mix of 4' T12 40W and T8 32W - 3 lamps	3610	0.092	331.877	0.044	158.840	0.048	173.027	0.0309	14	PSP-Business-Large_Office-Lighting_Interior_General	116.78
Lighting - Nursing Home	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	2' x 4' LED troffer / 4' LED linear ambient fixture (>= 3000 Lumens)	Measure Mix of 4' T12 40W and T8 32W - 3 lamps	4308	0.092	396.046	0.044	189.552	0.048	206.482	0.0312	12	PSP-Business-Nursing_Home-Lighting_Interior_General	116.78
Lighting - Other Non-Food Retail	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	2' x 4' LED troffer / 4' LED linear ambient fixture (>= 3000 Lumens)	Measure Mix of 4' T12 40W and T8 32W - 3 lamps	4089	0.092	375.913	0.044	179.916	0.048	195.986	0.0361	12	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	116.78
Lighting - Restaurant	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	2' x 4' LED troffer / 4' LED linear ambient fixture (>= 3000 Lumens)	Measure Mix of 4' T12 40W and T8 32W - 3 lamps	5110	0.092	469.776	0.044	224.840	0.048	244.922	0.0401	10	PSP-Business-Restaurant-Lighting_Interior_General	116.78
Multi-Residential In Suite Appliance	IN-SUITE TEMPERATURE CONTROLS FOR ELECTRIC SPACE HEATING & COOLING	In-suite temperature controls for electric space heating & cooling	No In-suite temperature controls for electric space heating & cooling						0.000	1155	0.323	11	EM&V-Commercial-Space_Cooling_&_Heating	169.00
Industrial Machine	HYBRID INJECTION MOULDING MACHINE	Replacement of an existing hydraulic injection moulding machine with a hybrid injection moulding machine	Fully Hydraulic Injection Moulding Machine	8000					kW=Clamping Tons*0.023 kW/Clamping Ton	kWh=Clamping Tons*198 kWh/Clamping Ton	kW=kWh *SPDF	20	PSP-Industrial-Miscellaneous_Industrial-Other	\$98/Clamping Ton
Chillers	HVAC CHILLER-WATER COOLED POSITIVE DISPLACEMENT	<75 Tons, <=0.600 kW/Ton IPLV.IP	<75 Tons, <=0.600 kW/Ton IPLV.IP	1000					kW=TONS* ΔIPLV	kWh=TONS*ΔIPLV *EFLH	kW=kWh* SPDF	20	EM&V-Commercial-Cooling	\$400/Ton
Chillers	HVAC CHILLER-WATER COOLED POSITIVE DISPLACEMENT	>=75 Tons and <150 Tons, <=0.560 kW/Ton IPLV.IP	>=75 Tons and <150 Tons, <=0.560 kW/Ton IPLV.IP	1000					kW=TONS* ΔIPLV	kWh=TONS*ΔIPLV *EFLH	kW=kWh* SPDF	20	EM&V-Commercial-Cooling	\$400/Ton
Chillers	HVAC CHILLER-WATER COOLED POSITIVE DISPLACEMENT	>=150 Tons and <300 Tons, <=0.540 kW/Ton IPLV.IP	>=150 Tons and <300 Tons, <=0.540 kW/Ton IPLV.IP	1000					kW=TONS* ΔIPLV	kWh=TONS*ΔIPLV *EFLH	kW=kWh* SPDF	20	EM&V-Commercial-Cooling	\$400/Ton
Chillers	HVAC CHILLER-WATER COOLED POSITIVE DISPLACEMENT	>=300 Tons and <600 Tons, <=0.520 kW/Ton IPLV.IP	>=300 Tons and <600 Tons, <=0.520 kW/Ton IPLV.IP	1000					kW=TONS* ΔIPLV	kWh=TONS*ΔIPLV *EFLH	kW=kWh* SPDF	20	EM&V-Commercial-Cooling	\$400/Ton
Chillers	HVAC CHILLER-WATER COOLED POSITIVE DISPLACEMENT	>=600 Tons, <=0.500 kW/Ton IPLV.IP	>=600 Tons, <=0.500 kW/Ton IPLV.IP	1000					kW=TONS* ΔIPLV	kWh=TONS*ΔIPLV *EFLH	kW=kWh* SPDF	20	EM&V-Commercial-Cooling	\$400/Ton
Chillers	HVAC CHILLER-WATER COOLED CENTRIFUGAL	<75 Tons, <=0.550 kW/Ton IPLV.IP	<75 Tons, <=0.550 kW/Ton IPLV.IP	1000					kW=TONS* ΔIPLV	kWh=TONS*ΔIPLV *EFLH	kW=kWh* SPDF	20	EM&V-Commercial-Cooling	\$400/Ton
Chillers	HVAC CHILLER-WATER COOLED CENTRIFUGAL	>=75 Tons and <150 Tons, <=0.550 kW/Ton IPLV.IP	>=75 Tons and <150 Tons, <=0.550 kW/Ton IPLV.IP	1000					kW=TONS* ΔIPLV	kWh=TONS*ΔIPLV *EFLH	kW=kWh* SPDF	20	EM&V-Commercial-Cooling	\$400/Ton
Chillers	HVAC CHILLER-WATER COOLED CENTRIFUGAL	>=150 Tons and <300 Tons, <=0.520 kW/Ton IPLV.IP	>=150 Tons and <300 Tons, <=0.520 kW/Ton IPLV.IP	1000					kW=TONS* ΔIPLV	kWh=TONS*ΔIPLV *EFLH	kW=kWh* SPDF	20	EM&V-Commercial-Cooling	\$400/Ton
Chillers	HVAC CHILLER-WATER COOLED CENTRIFUGAL	>=300 Tons and <600 Tons, <=0.500 kW/Ton IPLV.IP	>=300 Tons and <600 Tons, <=0.500 kW/Ton IPLV.IP	1000					kW=TONS* ΔIPLV	kWh=TONS*ΔIPLV *EFLH	kW=kWh* SPDF	20	EM&V-Commercial-Cooling	\$400/Ton
Chillers	HVAC CHILLER-WATER COOLED CENTRIFUGAL	>=600 Tons, <=0.500 kW/Ton IPLV.IP	>=600 Tons, <=0.500 kW/Ton IPLV.IP	1000					kW=TONS* ΔIPLV	kWh=TONS*ΔIPLV *EFLH	kW=kWh* SPDF	20	EM&V-Commercial-Cooling	\$400/Ton
Chillers	HVAC CHILLER-AIR-COOLED CHILLERS	<150 Tons, <=0.876 kW/Ton IPLV.IP	<150 Tons, <=0.876 kW/Ton IPLV.IP	1000					kW=TONS* ΔIPLV	kWh=TONS*ΔIPLV *EFLH	kW=kWh* SPDF	20	EM&V-Commercial-Cooling	\$150/Ton
Chillers	HVAC CHILLER-AIR-COOLED CHILLERS	>=150 Tons, <=0.857 kW/Ton IPLV.IP	>=150 Tons, <=0.857 kW/Ton IPLV.IP	1000					kW=TONS* ΔIPLV	kWh=TONS*ΔIPLV *EFLH	kW=kWh* SPDF	20	EM&V-Commercial-Cooling	\$150/Ton
Space Cooling	HOTEL OCCUPANCY CONTROLS (HVAC + LIGHTING)	Electrically heated facility	No controls installed							310	0.219	10	PSP-Business-Other_Commercial_Buildings-Cooling_DX	351.00
Space Cooling	HOTEL OCCUPANCY CONTROLS (HVAC + LIGHTING)	Gas heated facility	No controls installed							122	0.086	10	PSP-Business-Other_Commercial_Buildings-Cooling_DX	351.00

END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPERATING_HOURS	BASE_CASE_KW	BASE_CASE_KWH	CONSERVATION_CASE_SE_KW	CONSERVATION_CASE_KWH	FIRST_YEAR_DEMAND_SAVINGS	FIRST_YEAR_ENERGY_SAVINGS	PEAK_DEMAND_SAVINGS	EFFECTIVE_USEFUL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE_COST
Agribusiness	HIGH VOLUME LOW SPEED FAN	>= 10 ft to <11 ft, 1 HP	2 units Box fan, 1 HP	2124	2.506	5322.744	0.424	900.576	2.082	4422.168	1.510	15	EM&V-Commercial-HVLS_No_Summer_Operation	1293.00
Agribusiness	HIGH VOLUME LOW SPEED FAN	>= 11 ft to <19 ft, 1.5 HP	4 units Box fan, 1 HP	2124	3.898	8279.352	0.659	1399.716	3.239	6879.636	2.350	15	EM&V-Commercial-HVLS_No_Summer_Operation	2962.00
Agribusiness	HIGH VOLUME LOW SPEED FAN	>= 19 ft to <=24 ft, 2 HP	4 units Box fan, 1 HP	2124	5.555	11798.820	0.940	1996.560	4.615	9802.260	3.348	15	EM&V-Commercial-HVLS_No_Summer_Operation	5558.00
Agribusiness	HIGH TEMPERATURE CUTOUT THERMOSTAT	Operating range 24 to 40 Celsius	Poorly Controlled Creep Heat Lamps	6900		10867.500		9872.100		995.400	0.816	10	PSP-Business-Commercial-HT_Cutout_Thermostat	124.00
Agribusiness	HIGH EFFICIENCY VENTILATION EXHAUST FANS	>= 18 to < 24" Fan	Minimum fan grouping in category from BESS Laboratory ratings	4313	0.391	1687.696	0.290	1252.161	0.101	435.534	0.128	15	EM&V-Commercial-HE_Ventilation_Exhaust_Fans	202.00
Agribusiness	HIGH EFFICIENCY VENTILATION EXHAUST FANS	>= 24" to < 36" Fans	Minimum fan grouping in category from BESS Laboratory ratings	4313	0.560	2416.050	0.410	1768.612	0.150	647.438	0.190	15	EM&V-Commercial-HE_Ventilation_Exhaust_Fans	202.00
Agribusiness	HIGH EFFICIENCY VENTILATION EXHAUST FANS	>= 36" to < 48" Fans	Minimum fan grouping in category from BESS Laboratory ratings	4313	0.722	3115.999	0.564	2434.374	0.158	681.625	0.200	15	EM&V-Commercial-HE_Ventilation_Exhaust_Fans	202.00
Agribusiness	HIGH EFFICIENCY VENTILATION EXHAUST FANS	>= 48" Fans	Minimum fan grouping in category from BESS Laboratory ratings	4313	1.271	5482.356	0.997	4298.940	0.274	1183.416	0.347	15	EM&V-Commercial-HE_Ventilation_Exhaust_Fans	202.00
Compressed Air	ENGINEERED NOZZLE	1/4" Engineered Nozzle	Crimped Pipe or locally made nozzle	3920					0.440	1724.800	0.197	15	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	72.00
Compressed Air	ENGINEERED NOZZLE	1/8" Engineered Nozzle	Crimped Pipe or locally made nozzle	3920					0.110	431.200	0.049	15	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	53.00
Compressed Air	ENGINEERED NOZZLE	1/16" Engineered Nozzle	Crimped Pipe or locally made nozzle	3920					0.028	109.368	0.012	15	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	18.00
Compressed Air	ENGINEERED NOZZLE	3/8" Engineered Nozzle	Crimped Pipe or locally made nozzle	3920					0.990	3880.800	0.443	15	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	143.00
Agribusiness	ENGINE BLOCK HEATER TIMER	Plug-in timer that operates the heater only when outdoor temp drops below -3.8C	Manual plug in block heater						0.000	632.400	0.000	3	EM&V-Residential-Car_Block_Heater_South_Ontario	13.76
Multi-Residential In Suite Appliance	ENERGY STAR® REFRIGERATOR	Energy Star® Refrigerator	Standard Refrigerator	3000					0.210	350	0.044	17	PSP-Business-Restaurant-Refrigeration	54.00
Space Cooling	ECM MOTORS FOR HVAC APPLICATION (FAN-POWERED VAV BOX)	VAV Units < 1000 CFM	VAV Box with PSC motors	3000					0.180	500	0.353	15	PSP-Business-Other_Commercial_Buildings-Cooling_DX	160.00
Space Cooling	ECM MOTORS FOR HVAC APPLICATION (FAN-POWERED VAV BOX)	VAV Units > 1000 CFM	VAV Box with PSC motors	3000					0.320	350	0.247	15	PSP-Business-Other_Commercial_Buildings-Cooling_DX	550.00
Space Cooling	ECM MOTORS FOR HVAC APPLICATION (FAN MOTOR REPLACEMENT)	Motor < 1 hp	VAV Box with PSC motors	3000					0.062	1205	0.851	15	PSP-Business-Other_Commercial_Buildings-Cooling_DX	162.00
Refrigeration	ECM MOTORS FOR EVAPORATOR FANS (REFRIGERATOR WALK-IN)	Motor Size >= 1/20 hp to < 1/10 hp	Shaded Pole Motor (SP) and/or Permanent Split Capacitor (PSC)	8273					0.062	542.244	0.064	15	PSP-Business-Commercial-Refrigeration	239.00
Refrigeration	ECM MOTORS FOR EVAPORATOR FANS (FREEZER WALK-IN)	Motor Size >= 1/20 hp to < 1/10 hp	Shaded Pole Motor (SP) and/or Permanent Split Capacitor (PSC)	8273					0.079	652.860	0.078	15	PSP-Business-Commercial-Refrigeration	239.00
Agribusiness	DUAL AND NATURAL EXHAUST VENTILATION SYSTEM	Chicken broilers	Fans: 340W/1000 birds	3000	0.340	1020	0.152	203.805	0.188	816.195	0.118	15	EM&V-Commercial-Dual_&_Natural_Ventilation_Fans_All_Year	27000.00
Agribusiness	DUAL AND NATURAL EXHAUST VENTILATION SYSTEM	Dairy-tie stall, outside in summer	50% in barn; 50% on pasture	5043	0.035	176.520	0.016	35.270	0.019	141.250	0.000	15	EM&V-Commercial-Dual_&_Natural_Ventilation_Fans_Winter_Only	12000.00
Agribusiness	DUAL AND NATURAL EXHAUST VENTILATION SYSTEM	Dairy-tie stall, year-round housing	Fans: 35W/cow	6548	0.035	229.184	0.016	45.793	0.019	183.391	0.000	15	EM&V-Commercial-Dual_&_Natural_Ventilation_Fans_Winter_Only	12000.00

END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPERATING_HOURS	BASE_CASE_KW	BASE_CASE_KWH	CONSERVATION_CASE_KW	CONSERVATION_CASE_KWH	FIRST_YEAR_DEMAND_SAVINGS	FIRST_YEAR_ENERGY_SAVINGS	PEAK_DEMAND_SAVINGS	EFFECTIVE_USEFUL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE_COST
Agribusiness	DUAL AND NATURAL EXHAUST VENTILATION SYSTEM	Egg layers	Fans: 400W/1000 birds	5475	0.400	2190	0.179	437.582	0.221	1752.418	0.252	15	EM&V-Commercial-Dual_&_Natural_Ventilation_Fans_All_Year	18000.00
Agribusiness	DUAL AND NATURAL EXHAUST VENTILATION SYSTEM	Greenhouse - Flowers	Fans: 1260W/1000 sq. meters	8760	1.260	11037.600	0.563	2205.412	0.697	8832.188	1.272	15	EM&V-Commercial-Dual_&_Natural_Ventilation_Fans_All_Year	10250.00
Agribusiness	DUAL AND NATURAL EXHAUST VENTILATION SYSTEM	Swine - Breeding & Gestation	Fans: 17W/sow	5864	0.015	99.688	0.008	19.919	0.007	79.769	0.011	15	EM&V-Commercial-Dual_&_Natural_Ventilation_Fans_All_Year	5500.00
Agribusiness	DUAL AND NATURAL EXHAUST VENTILATION SYSTEM	Swine - Growing & Finishing	Fans: 5W/market-weight hog	8760	0.005	43.800	0.002	8.752	0.003	35.048	0.005	15	EM&V-Commercial-Dual_&_Natural_Ventilation_Fans_All_Year	15000.00
Agribusiness	DUAL AND NATURAL EXHAUST VENTILATION SYSTEM	Turkeys	Fans: 1130W/1000 birds	6971	1.130	7876.765	0.505	1573.848	0.625	6302.916	0.908	15	EM&V-Commercial-Dual_&_Natural_Ventilation_Fans_All_Year	15000.00
Agribusiness	DOUBLE CREEP HEAT PAD	Up to 200W maximum	2 x 175W Heat Lamps	6900	0.350	2415	0.169	1166.100	0.181	1248.900	0.000	10	EM&V-Commercial-Creep_Heat_Pad	95.00
Demand Control Ventilation	DEMAND CONTROL VENTILATION - INTERIOR CONDITIONED SPACES	50000 to <= 100000 SQ.FT.	Constant volume Ventilation System	8760					0.000	18675	0.000	10	PSP-Consumer-Residential-Ventilation_And_Circulation	7500.00
Demand Control Ventilation	DEMAND CONTROL VENTILATION - INTERIOR CONDITIONED SPACES	>100000 & <250000 SQ.FT.	Constant volume Ventilation System	8760					0.000	43575	0.000	10	PSP-Consumer-Residential-Ventilation_And_Circulation	17500.00
Demand Control Ventilation	DEMAND CONTROL VENTILATION - INTERIOR CONDITIONED SPACES	>250000 & <500000 SQ.FT.	Constant volume Ventilation System	8760					0.000	93375	0.000	10	PSP-Consumer-Residential-Ventilation_And_Circulation	37500.00
Demand Control Ventilation	DEMAND CONTROL VENTILATION - INTERIOR CONDITIONED SPACES	>500000 & <750000 SQ.FT.	Constant volume Ventilation System	8760					0.000	155625	0.000	10	PSP-Consumer-Residential-Ventilation_And_Circulation	62500.00
Demand Control Ventilation	DEMAND CONTROL VENTILATION - INTERIOR CONDITIONED SPACES	>750000 to <1000000 SQ.FT.	Constant volume Ventilation System	8760					0.000	217875	0.000	10	PSP-Consumer-Residential-Ventilation_And_Circulation	87500.00
Demand Control Ventilation	DEMAND CONTROL VENTILATION - ENCLOSED PARKING GARAGES	>5 to <= 10 HP	Garage ventilation fans running continuously	8760					0.000	16588.745	1.894	10	PSP-Consumer-Residential-Ventilation_And_Circulation	2250.00
Demand Control Ventilation	DEMAND CONTROL VENTILATION - ENCLOSED PARKING GARAGES	>10 to <= 25 HP	Garage ventilation fans running continuously	8760					0.000	41471.862	4.734	10	PSP-Consumer-Residential-Ventilation_And_Circulation	4500.00
Demand Control Ventilation	DEMAND CONTROL VENTILATION - ENCLOSED PARKING GARAGES	>25 to <= 50 HP	Garage ventilation fans running continuously	8760					0.000	82943.723	9.468	10	PSP-Consumer-Residential-Ventilation_And_Circulation	4500.00
Demand Control Ventilation	DEMAND CONTROL VENTILATION - ENCLOSED PARKING GARAGES	>50 to <= 75 HP	Garage ventilation fans running continuously	8760					0.000	124415.585	14.203	10	PSP-Consumer-Residential-Ventilation_And_Circulation	9000.00
Demand Control Ventilation	DEMAND CONTROL VENTILATION - ENCLOSED PARKING GARAGES	>75 to <= 100 HP	Garage ventilation fans running continuously	8760					0.000	165887.446	18.937	10	PSP-Consumer-Residential-Ventilation_And_Circulation	9000.00
Demand Control Ventilation	DEMAND CONTROL VENTILATION - ENCLOSED PARKING GARAGES	>=2 to <= 5 HP	Garage ventilation fans running continuously	0.000	0.000	0.000	0.000	0.000	0.000	8294.372	0.947	10	PSP-Consumer-Residential-Ventilation_And_Circulation	2250.00
Demand Control Ventilation	DEMAND CONTROL KITCHEN VENTILATION	5001 - 10000 CFM exhaust fan capacity	Constant volume exhaust fan	5840		27389.600		11508.829		15880.771	2.258	15	PSP-Business-Commercial-Cooking	11915.00
Demand Control Ventilation	DEMAND CONTROL KITCHEN VENTILATION	10001 - 15000 CFM exhaust fan capacity	Constant volume exhaust fan	5840		48705.600		20465.594		28240.006	4.014	15	PSP-Business-Commercial-Cooking	19859.00
Demand Control Ventilation	DEMAND CONTROL KITCHEN VENTILATION	Up to 5000 CFM exhaust fan capacity	Constant volume exhaust fan	5840		8234.400		3460.010		4774.390	0.679	15	PSP-Business-Commercial-Cooking	4766.00
Agribusiness	DAIRY PLATE COOLER	Plate cooler to pre-cool milk prior to refrigeration	No pre-cooling						2.570	7503	0.000	15	PSP-Industrial-Agriculture-Process_Cooling	3098.00
Agribusiness	DAIRY ENERGY STAR WATER HEATER	Energy Star Electric Hot Water Tank >= 60 gal	Standard electric hot water heater	8760	1.722	15086.410	0.775	6788.884	0.947	8297.525	0.947	15	PSP-Industrial-Agriculture-Other	853.00

END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPERATING_HOURS	BASE_CASE_KW	BASE_CASE_KWH	CONSERVATION_CASE_SE_KW	CONSERVATION_CASE_KWH	FIRST_YEAR_DEMAND_SAVINGS	FIRST_YEAR_ENERGY_SAVINGS	PEAK_DEMAND_SAVINGS	EFFECTIVE_USEFUL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE_COST
Compressed Air	CYCLING OR THERMAL MASS REFRIGERATED DRYER	0 to <200 CFM	Non-Cycling Refrigerated Dryer	3920					0.000	994.840	0.114	15	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	1110.00
Compressed Air	CYCLING OR THERMAL MASS REFRIGERATED DRYER	>=200 to <400 CFM	Non-Cycling Refrigerated Dryer	3920					0.000	2487.100	0.284	15	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	2775.00
Compressed Air	CYCLING OR THERMAL MASS REFRIGERATED DRYER	>=400 to <750 CFM	Non-Cycling Refrigerated Dryer	3920					0.000	4974.200	0.568	15	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	5550.00
Agribusiness	CREEP HEAT CONTROLLER	NEMA 4 or 4X. Must meet all applicable Code, standard, safety and regulatory requirements including CSA/UL/CUL	Poorly Controlled Creep Heat Lamps	6900	1.750	12075	1.400	9660	0.350	2145	0.276	15	PSP-Business-Commercial-Creep_Heat_Controller	666.00
Compressed Air	COMPRESSED AIR VSD	Variable Speed Drive Compressor >= 10 HP	Fixed Speed Compressor >= 10 HP	5705					1.185	7595.064	0.867	13	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	2824.64
Compressed Air	COMPRESSED AIR VSD	Variable Speed Drive Compressor >= 15 HP	Fixed Speed Compressor >= 15 HP	5705					1.778	11392.596	1.301	13	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	3485.04
Compressed Air	COMPRESSED AIR VSD	Variable Speed Drive Compressor >= 20 HP	Fixed Speed Compressor >= 20 HP	5705					2.371	15190.128	1.735	13	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	4145.44
Compressed Air	COMPRESSED AIR VSD	Variable Speed Drive Compressor >= 25 HP	Fixed Speed Compressor >= 25 HP	5705					2.964	18987.660	2.169	13	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	4805.84
Compressed Air	COMPRESSED AIR VSD	Variable Speed Drive Compressor >= 30 HP	Fixed Speed Compressor >= 30 HP	5705					3.556	22785.192	2.602	13	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	5466.24
Compressed Air	COMPRESSED AIR VSD	Variable Speed Drive Compressor >= 40 HP	Fixed Speed Compressor >= 40 HP	5705					4.742	30380.256	3.470	13	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	6787.04
Compressed Air	COMPRESSED AIR VSD	Variable Speed Drive Compressor >= 50 HP	Fixed Speed Compressor >= 50 HP	5705					7.433	47623.104	5.439	13	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	8107.84
Compressed Air	COMPRESSED AIR VSD	Variable Speed Drive Compressor >= 60 HP	Fixed Speed Compressor >= 60 HP	5705					8.920	57147.725	6.527	13	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	9428.64
Compressed Air	COMPRESSED AIR VSD	Variable Speed Drive Compressor >= 75 HP	Fixed Speed Compressor >= 75 HP	5705					11.150	71434.656	8.159	13	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	11409.84
Compressed Air	COMPRESSED AIR VSD	Variable Speed Drive Compressor >= 100 HP	Fixed Speed Compressor >= 100 HP	5705					14.867	95246.208	10.878	13	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	14711.84
Compressed Air	COMPRESSED AIR VSD	Variable Speed Drive Compressor >= 125 HP	Fixed Speed Compressor >= 125 HP	5705					18.583	119057.760	13.598	13	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	18013.84
Compressed Air	COMPRESSED AIR VSD	Variable Speed Drive Compressor >= 150 HP	Fixed Speed Compressor >= 150 HP	5705					22.300	142869.312	16.318	13	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	21315.84
Compressed Air	COMPRESSED AIR VSD	Variable Speed Drive Compressor >= 200 HP	Fixed Speed Compressor >= 200 HP	5705					29.733	190492.416	21.757	13	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	27919.84
Compressed Air	COMPRESSED AIR VD	Variable Displacement Compressor >= 10 HP	Fixed Speed Compressor >= 10 HP	5705					1.482	9493.830	1.084	13	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	3530.80
Compressed Air	COMPRESSED AIR VD	Variable Displacement Compressor >= 15 HP	Fixed Speed Compressor >= 15 HP	5705					2.223	14240.745	1.627	13	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	4356.30
Compressed Air	COMPRESSED AIR VD	Variable Displacement Compressor >= 20 HP	Fixed Speed Compressor >= 20 HP	5705					2.964	18987.660	2.169	13	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	5181.80
Compressed Air	COMPRESSED AIR VD	Variable Displacement Compressor >= 25 HP	Fixed Speed Compressor >= 25 HP	5705					3.705	23734.575	2.711	13	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	6007.30
Compressed Air	COMPRESSED AIR VD	Variable Displacement Compressor >= 30 HP	Fixed Speed Compressor >= 30 HP	5705					4.446	28481.490	3.253	13	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	6832.80



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPERATING_HOURS	BASE_CASE_KW	BASE_CASE_KWH	CONSERVATION_CASE_KW	CONSERVATION_CASE_KWH	FIRST_YEAR_DEMAND_SAVINGS	FIRST_YEAR_ENERGY_SAVINGS	PEAK_DEMAND_SAVINGS	EFFECTIVE_USEFUL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE_COST
Compressed Air	COMPRESSED AIR VD	Variable Displacement Compressor >= 40 HP	Fixed Speed Compressor >= 40 HP	5705					5.927	37975.320	4.337	13	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	8483.80
Compressed Air	COMPRESSED AIR VD	Variable Displacement Compressor >= 50 HP	Fixed Speed Compressor >= 50 HP	5705					9.292	59528.880	6.799	13	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	10134.80
Compressed Air	COMPRESSED AIR VD	Variable Displacement Compressor >= 60 HP	Fixed Speed Compressor >= 60 HP	5705					11.150	71434.656	8.159	13	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	11785.80
Compressed Air	COMPRESSED AIR VD	Variable Displacement Compressor >= 75 HP	Fixed Speed Compressor >= 75 HP	5705					13.937	89293.320	10.199	13	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	14262.30
Compressed Air	COMPRESSED AIR VD	Variable Displacement Compressor >= 100 HP	Fixed Speed Compressor >= 100 HP	5705					18.583	119057.760	13.598	13	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	18389.80
Compressed Air	COMPRESSED AIR VD	Variable Displacement Compressor >= 125 HP	Fixed Speed Compressor >= 125 HP	5705					23.229	148822.200	16.998	13	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	22517.30
Compressed Air	COMPRESSED AIR VD	Variable Displacement Compressor >= 150 HP	Fixed Speed Compressor >= 150 HP	5705					27.875	178586.640	20.397	13	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	26644.80
Compressed Air	COMPRESSED AIR VD	Variable Displacement Compressor >= 200 HP	Fixed Speed Compressor >= 200 HP	5705					37.166	238115.520	27.196	13	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	34899.80
Compressed Air	COMPRESSED AIR LOW PRESSURE DROP FILTER	0 to <30 HP	Standard coalescing filter	5700					0.000	1771.750	0.202	7	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	591.00
Compressed Air	COMPRESSED AIR LOW PRESSURE DROP FILTER	>=30 to <50 HP	Standard coalescing filter	5700					0.000	3543.500	0.405	7	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	591.00
Compressed Air	COMPRESSED AIR LOW PRESSURE DROP FILTER	>=50 to <70 HP	Standard coalescing filter	5700					0.000	5315.250	0.607	7	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	591.00
Compressed Air	COMPRESSED AIR LOW PRESSURE DROP FILTER	>=70 to <90 HP	Standard coalescing filter	5700					0.000	7087	0.809	7	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	591.00
Compressed Air	COMPRESSED AIR LOW PRESSURE DROP FILTER	>=90 to <110 HP	Standard coalescing filter	5700					0.000	8858.750	1.012	7	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	591.00
Commercial Domestic Hot Water	CIRCULATOR PUMPS WITH ELECTRONICALLY COMMUTATED MOTORS (ECMs)	2237 W (3HP)	Circulator pump with PSC motor	2190	14.630	32039.700	2.630	5759.700	12	26280	3.214	15	PSP-Business-Commercial-Domestic_Hot_Water	2160.00
Residential Domestic Hot Water	CIRCULATOR PUMPS WITH ELECTRONICALLY COMMUTATED MOTORS (ECMs)	2237 W (3HP)	Circulator pump with PSC motor	2190	14.630	32039.700	2.630	5759.700	12	26280	2.378	15	PSP-Consumer-Residential-Domestic_Hot_Water	2160.00
Space Cooling	CIRCULATOR PUMPS WITH ELECTRONICALLY COMMUTATED MOTORS (ECMs)	2237 W (3HP)	Circulator pump with PSC motor	1191	14.630	17424.330	2.630	3132.330	12	14292	10.786	15	PSP-Business-Commercial-Cooling_Chillers	2160.00
Space Heating	CIRCULATOR PUMPS WITH ELECTRONICALLY COMMUTATED MOTORS (ECMs)	2237 W (3HP)	Circulator pump with PSC motor	2582	14.630	37774.660	2.630	6790.660	12	30984	2.117	15	PSP-Business-Commercial-Forced_Air_Central_Heating	2160.00
Commercial Domestic Hot Water	CIRCULATOR PUMPS WITH ELECTRONICALLY COMMUTATED MOTORS (ECMs)	<100 W (<0.134HP)	Circulator pump with PSC motor	2190	0.280	613.200	0.050	109.500	0.230	503.700	0.062	15	PSP-Business-Commercial-Domestic_Hot_Water	1106.00
Residential Domestic Hot Water	CIRCULATOR PUMPS WITH ELECTRONICALLY COMMUTATED MOTORS (ECMs)	<100 W (<0.134HP)	Circulator pump with PSC motor	2190	0.280	613.200	0.050	109.500	0.230	503.700	0.046	15	PSP-Consumer-Residential-Domestic_Hot_Water	1106.00
Space Cooling	CIRCULATOR PUMPS WITH ELECTRONICALLY COMMUTATED MOTORS (ECMs)	<100 W (<0.134HP)	Circulator pump with PSC motor	1191	0.280	333.480	0.050	59.550	0.230	273.930	0.207	15	PSP-Business-Commercial-Cooling_Chillers	1106.00
Space Heating	CIRCULATOR PUMPS WITH ELECTRONICALLY COMMUTATED MOTORS (ECMs)	<100 W (<0.134HP)	Circulator pump with PSC motor	2582	0.280	722.960	0.050	129.100	0.230	593.860	0.041	15	PSP-Business-Commercial-Forced_Air_Central_Heating	1106.00
Commercial Domestic Hot Water	CIRCULATOR PUMPS WITH ELECTRONICALLY COMMUTATED MOTORS (ECMs)	>=100<500 W (>=0.134<0.67HP)	Circulator pump with PSC motor	2190	1.390	3044.100	0.250	547.500	1.140	2496.600	0.305	15	PSP-Business-Commercial-Domestic_Hot_Water	1280.00



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPERATING_HOURS	BASE_CASE_KW	BASE_CASE_KWH	CONSERVATION_CASE_SE_KW	CONSERVATION_CASE_KWH	FIRST_YEAR_DEMAND_SAVINGS	FIRST_YEAR_ENERGY_SAVINGS	PEAK_DEMAND_SAVINGS	EFFECTIVE_USEFUL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE_COST
Residential Domestic Hot Water	CIRCULATOR PUMPS WITH ELECTRONICALLY COMMUTATED MOTORS (ECMs)	>=100<500 W (>=0.134<0.67HP)	Circulator pump with PSC motor	2190	1.390	3044.100	0.250	547.500	1.140	2496.600	0.226	15	PSP-Consumer-Residential-Domestic_Hot_Water	1280.00
Space Cooling	CIRCULATOR PUMPS WITH ELECTRONICALLY COMMUTATED MOTORS (ECMs)	>=100<500 W (>=0.134<0.67HP)	Circulator pump with PSC motor	1191	1.390	1655.490	0.250	297.750	1.140	1357.740	1.025	15	PSP-Business-Commercial-Cooling_Chillers	1280.00
Space Heating	CIRCULATOR PUMPS WITH ELECTRONICALLY COMMUTATED MOTORS (ECMs)	>=100<500 W (>=0.134<0.67HP)	Circulator pump with PSC motor	2582	1.390	3588.980	0.250	645.500	1.140	2943.480	0.201	15	PSP-Business-Commercial-Forced_Air_Central_Heating	1280.00
Commercial Domestic Hot Water	CIRCULATOR PUMPS WITH ELECTRONICALLY COMMUTATED MOTORS (ECMs)	>=500<750 W (>=0.67<1HP)	Circulator pump with PSC motor	2190	3.890	8519.100	0.700	1533	3.190	6986.100	0.854	15	PSP-Business-Commercial-Domestic_Hot_Water	1333.00
Residential Domestic Hot Water	CIRCULATOR PUMPS WITH ELECTRONICALLY COMMUTATED MOTORS (ECMs)	>=500<750 W (>=0.67<1HP)	Circulator pump with PSC motor	2190	3.890	8519.100	0.700	1533	3.190	6986.100	0.632	15	PSP-Consumer-Residential-Domestic_Hot_Water	1333.00
Space Cooling	CIRCULATOR PUMPS WITH ELECTRONICALLY COMMUTATED MOTORS (ECMs)	>=500<750 W (>=0.67<1HP)	Circulator pump with PSC motor	1191	3.890	4632.990	0.700	833.700	3.190	3799.290	2.867	15	PSP-Business-Commercial-Cooling_Chillers	1333.00
Space Heating	CIRCULATOR PUMPS WITH ELECTRONICALLY COMMUTATED MOTORS (ECMs)	>=500<750 W (>=0.67<1HP)	Circulator pump with PSC motor	2582	3.890	10043.980	0.700	1807.400	3.190	8236.580	0.563	15	PSP-Business-Commercial-Forced_Air_Central_Heating	1333.00
Commercial Domestic Hot Water	CIRCULATOR PUMPS WITH ELECTRONICALLY COMMUTATED MOTORS (ECMs)	>=750<1490 W (>=1<2HP)	Circulator pump with PSC motor	2190	4.880	10687.200	0.880	1927.200	4	8760	1.071	15	PSP-Business-Commercial-Domestic_Hot_Water	1500.00
Residential Domestic Hot Water	CIRCULATOR PUMPS WITH ELECTRONICALLY COMMUTATED MOTORS (ECMs)	>=750<1490 W (>=1<2HP)	Circulator pump with PSC motor	2190	4.880	10687.200	0.880	1927.200	4	8760	0.793	15	PSP-Consumer-Residential-Domestic_Hot_Water	1500.00
Space Cooling	CIRCULATOR PUMPS WITH ELECTRONICALLY COMMUTATED MOTORS (ECMs)	>=750<1490 W (>=1<2HP)	Circulator pump with PSC motor	1191	4.880	5812.080	0.880	1048.080	4	4764	3.595	15	PSP-Business-Commercial-Cooling_Chillers	1500.00
Space Heating	CIRCULATOR PUMPS WITH ELECTRONICALLY COMMUTATED MOTORS (ECMs)	>=750<1490 W (>=1<2HP)	Circulator pump with PSC motor	2582	4.880	12600.160	0.880	2272.160	4	10328	0.706	15	PSP-Business-Commercial-Forced_Air_Central_Heating	1500.00
Commercial Domestic Hot Water	CIRCULATOR PUMPS WITH ELECTRONICALLY COMMUTATED MOTORS (ECMs)	>=1490<2237 W (>=2<3HP)	Circulator pump with PSC motor	2190	9.750	21352.500	1.760	3854.400	7.990	17498.100	2.140	15	PSP-Business-Commercial-Domestic_Hot_Water	1580.00
Residential Domestic Hot Water	CIRCULATOR PUMPS WITH ELECTRONICALLY COMMUTATED MOTORS (ECMs)	>=1490<2237 W (>=2<3HP)	Circulator pump with PSC motor	2190	9.750	21352.500	1.760	3854.400	7.990	17498.100	1.584	15	PSP-Consumer-Residential-Domestic_Hot_Water	1580.00
Space Cooling	CIRCULATOR PUMPS WITH ELECTRONICALLY COMMUTATED MOTORS (ECMs)	>=1490<2237 W (>=2<3HP)	Circulator pump with PSC motor	1191	9.750	11612.250	1.760	2096.160	7.990	9516.090	7.182	15	PSP-Business-Commercial-Cooling_Chillers	1580.00
Space Heating	CIRCULATOR PUMPS WITH ELECTRONICALLY COMMUTATED MOTORS (ECMs)	>=1490<2237 W (>=2<3HP)	Circulator pump with PSC motor	2582	9.750	25174.500	1.760	4544.320	7.990	20630.180	1.410	15	PSP-Business-Commercial-Forced_Air_Central_Heating	1580.00
Building Plug Load	BEVERAGE VENDING MACHINE CONTROLS	Power Sensor and/or Occupancy Control for Refrigerated Vending Machine	Standard beverage vending machines	8760						1612.944	0.195	5	PSP-Business-Commercial-Other_Plug_Loads	243.00
Industrial Machine	ALL ELECTRIC INJECTION MOULDING MACHINE	Replacement of an existing hydraulic injection moulding machine with all electric injection moulding machine	Fully Hydraulic Injection Moulding Machine	8000	-	-	-	-	kw=Clamping Tons*0.055 kW/Clamping Ton	kWh=Clamping Tons*441 kWh/Clamping Ton	kWh=kWh *SPDF	20	PSP-Industrial-Miscellaneous_Industrial-Other	\$228/Clamping Ton
Space Cooling	ADVANCED ROOFTOP UNIT CONTROLS	Single-zone packaged RTU with single-speed supply fan retrofitted with advanced controls (>=3.0 ton to <5.4 tons)	Single-zone packaged rooftop unit with single-speed supply fan						0.000	1672	1.226	12	EM&V-Commercial-Cooling	1350.00
Space Cooling	ADVANCED ROOFTOP UNIT CONTROLS	Single-zone packaged RTU with single-speed supply fan retrofitted with advanced controls (>=5.4 ton to <11.4 tons)	Single-zone packaged rooftop unit with single-speed supply fan						0.000	5201	3.814	12	EM&V-Commercial-Cooling	4200.00
Space Cooling	ADVANCED ROOFTOP UNIT CONTROLS	Single-zone packaged RTU with single-speed supply fan retrofitted with advanced controls (>=11.4 ton to <19.9 tons)	Single-zone packaged rooftop unit with single-speed supply fan						0.000	9691	7.106	12	EM&V-Commercial-Cooling	7825.00
Space Cooling	ADVANCED ROOFTOP UNIT CONTROLS	Single-zone packaged RTU with single-speed supply fan retrofitted with advanced controls (>=19.9 ton to <63.4 tons)	Single-zone packaged rooftop unit with single-speed supply fan						0.000	25759	18.887	12	EM&V-Commercial-Cooling	20825.00
Refrigeration	ADD DOOR TO OPEN REFRIGERATED DISPLAY CASE	Coolers	Open Multi-Deck Refrigerated Display Case	8760					ΔkW = FT * 302.65 / 8760	ΔkWh = FT * 302.65	ΔkW = ΔkWh * SPDF	15	PSP-Business-Commercial-Refrigerated_Display_Case_Food_Retail	\$ = FT * \$100 per linear foot



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPERATING_HOURS	BASE_CASE_KW	BASE_CASE_KWH	CONSERVATION_CASE_SE_KW	CONSERVATION_CASE_KWH	FIRST_YEAR_DEMAND_SAVINGS	FIRST_YEAR_ENERGY_SAVINGS	PEAK_DEMAND_SAVINGS	EFFECTIVE_USEFUL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE_COST
Refrigeration	ADD DOOR TO OPEN REFRIGERATED DISPLAY CASE	Freezers	Open Multi-Deck Refrigerated Display Case	8760					$\Delta kW = FT * 1405.59 / 8760$	$\Delta kWh = FT * 1405.59$	$\Delta kW = \Delta kWh * SPDF$	15	PSP-Business-Commercial-Refrigerated_Display_Case_Food_Retail	\$ = FT * \$100 per linear foot
Lighting - Other Commercial Buildings	8' T8 LED LAMP	<= 43W >= 3200 Lumens	Measure Mix of 8' T12 75W and T8 59W w/ electronic ballast	4000	0.069	276.605	0.038	150.800	0.031	125.805	0.020	18	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	-4.18
Lighting - Food Retail	8' T8 LED LAMP	<= 43W >= 3200 Lumens	Measure Mix of 8' T12 75W and T8 59W w/ electronic ballast	6074	0.069	420.025	0.038	228.990	0.031	191.035	0.027	8	PSP-Business-Food_Retail-Lighting_Interior_General	-4.18
Lighting - Hospital	8' T8 LED LAMP	<= 43W >= 3200 Lumens	Measure Mix of 8' T12 75W and T8 59W w/ electronic ballast	5182	0.069	358.342	0.038	195.361	0.031	162.980	0.022	10	PSP-Business-Hospital-Lighting_Interior_General	-4.18
Lighting - Large Hotel (Corridor/Lobby)	8' T8 LED LAMP	<= 43W >= 3200 Lumens	Measure Mix of 8' T12 75W and T8 59W w/ electronic ballast	7884	0.069	545.189	0.038	297.227	0.031	247.962	0.030	6	PSP-Business-Large_Hotel-Lighting_Interior_General	-4.18
Lighting - Large Non-Food Retail	8' T8 LED LAMP	<= 43W >= 3200 Lumens	Measure Mix of 8' T12 75W and T8 59W w/ electronic ballast	4089	0.069	282.760	0.038	154.155	0.031	128.604	0.019	12	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	-4.18
Lighting - Large Office	8' T8 LED LAMP	<= 43W >= 3200 Lumens	Measure Mix of 8' T12 75W and T8 59W w/ electronic ballast	3610	0.069	249.636	0.038	136.097	0.031	113.539	0.020	14	PSP-Business-Large_Office-Lighting_Interior_General	-4.18
Lighting - Nursing Home	8' T8 LED LAMP	<= 43W >= 3200 Lumens	Measure Mix of 8' T12 75W and T8 59W w/ electronic ballast	4308	0.069	297.904	0.038	162.412	0.031	135.492	0.020	12	PSP-Business-Nursing_Home-Lighting_Interior_General	-4.18
Lighting - Other Non-Food Retail	8' T8 LED LAMP	<= 43W >= 3200 Lumens	Measure Mix of 8' T12 75W and T8 59W w/ electronic ballast	4089	0.069	282.760	0.038	154.155	0.031	128.604	0.024	12	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	-4.18
Lighting - Restaurant	8' T8 LED LAMP	<= 43W >= 3200 Lumens	Measure Mix of 8' T12 75W and T8 59W w/ electronic ballast	5110	0.069	353.363	0.038	192.647	0.031	160.716	0.026	10	PSP-Business-Restaurant-Lighting_Interior_General	-4.18
Lighting - Schools	8' T8 LED LAMP	<= 43W >= 3200 Lumens	Measure Mix of 8' T12 75W and T8 59W w/ electronic ballast	2596	0.069	179.517	0.038	97.869	0.031	81.648	0.004	19	PSP-Business-Schools-Lighting_Interior_General	-4.18
Lighting - University Colleges	8' T8 LED LAMP	<= 43W >= 3200 Lumens	Measure Mix of 8' T12 75W and T8 59W w/ electronic ballast	3255	0.069	225.087	0.038	122.714	0.031	102.374	0.013	15	PSP-Business-University_Colleges-Lighting_Interior_General	-4.18
Lighting - Warehouse Wholesale	8' T8 LED LAMP	<= 43W >= 3200 Lumens	Measure Mix of 8' T12 75W and T8 59W w/ electronic ballast	3759	0.069	259.940	0.038	141.714	0.031	118.225	0.023	13	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	-4.18
Lighting - Food Retail	8' LED LINEAR AMBIENT RETROFIT KIT	>= 4500 < 9000 Lumens	Mixture of one lamp 8' T12 and T8	6074	0.071	431.254	0.045	273.330	0.026	157.924	0.022	8	PSP-Business-Food_Retail-Lighting_Interior_General	56.48
Lighting - Hospital	8' LED LINEAR AMBIENT RETROFIT KIT	>= 4500 < 9000 Lumens	Mixture of one lamp 8' T12 and T8	5182	0.071	367.922	0.045	233.190	0.026	134.732	0.018	10	PSP-Business-Hospital-Lighting_Interior_General	56.48
Lighting - Large Hotel (Corridor/Lobby)	8' LED LINEAR AMBIENT RETROFIT KIT	>= 4500 < 9000 Lumens	Mixture of one lamp 8' T12 and T8	7884	0.071	559.764	0.045	354.780	0.026	204.984	0.025	6	PSP-Business-Large_Hotel-Lighting_Interior_General	56.48
Lighting - Large Non-Food Retail	8' LED LINEAR AMBIENT RETROFIT KIT	>= 4500 < 9000 Lumens	Mixture of one lamp 8' T12 and T8	4089	0.071	290.319	0.045	184.005	0.026	106.314	0.016	12	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	56.48
Lighting - Large Office	8' LED LINEAR AMBIENT RETROFIT KIT	>= 4500 < 9000 Lumens	Mixture of one lamp 8' T12 and T8	3610	0.071	256.310	0.045	162.450	0.026	93.860	0.017	14	PSP-Business-Large_Office-Lighting_Interior_General	56.48
Lighting - Nursing Home	8' LED LINEAR AMBIENT RETROFIT KIT	>= 4500 < 9000 Lumens	Mixture of one lamp 8' T12 and T8	4308	0.071	305.868	0.045	193.860	0.026	112.008	0.017	12	PSP-Business-Nursing_Home-Lighting_Interior_General	56.48
Lighting - Other Non-Food Retail	8' LED LINEAR AMBIENT RETROFIT KIT	>= 4500 < 9000 Lumens	Mixture of one lamp 8' T12 and T8	4089	0.071	290.319	0.045	184.005	0.026	106.314	0.020	12	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	56.48
Lighting - Restaurant	8' LED LINEAR AMBIENT RETROFIT KIT	>= 4500 < 9000 Lumens	Mixture of one lamp 8' T12 and T8	5110	0.071	362.810	0.045	229.950	0.026	132.860	0.022	10	PSP-Business-Restaurant-Lighting_Interior_General	56.48
Lighting - Schools	8' LED LINEAR AMBIENT RETROFIT KIT	>= 4500 < 9000 Lumens	Mixture of one lamp 8' T12 and T8	2596	0.071	184.316	0.045	116.820	0.026	67.496	0.003	19	PSP-Business-Schools-Lighting_Interior_General	56.48



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPERATING_HOURS	BASE_CASE_KW	BASE_CASE_KWH	CONSERVATION_CASE_SE_KW	CONSERVATION_CASE_KWH	FIRST_YEAR_DEMAND_SAVINGS	FIRST_YEAR_ENERGY_SAVINGS	PEAK_DEMAND_SAVINGS	EFFECTIVE_USEFUL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE_COST
Lighting - University Colleges	8' LED LINEAR AMBIENT RETROFIT KIT	>= 4500 < 9000 Lumens	Mixture of one lamp 8' T12 and T8	3255	0.071	231.105	0.045	146.475	0.026	84.630	0.011	15	PSP-Business-University_Colleges-Lighting_Interior_General	56.48
Lighting - Warehouse Wholesale	8' LED LINEAR AMBIENT RETROFIT KIT	>= 4500 < 9000 Lumens	Mixture of one lamp 8' T12 and T8	3759	0.071	266.889	0.045	169.155	0.026	97.734	0.019	13	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	56.48
Lighting - Food Retail	8' LED LINEAR AMBIENT RETROFIT KIT	>= 9000 Lumens	Mixture of two lamps 8' T12 and T8	6074	0.122	741.028	0.084	510.216	0.038	230.812	0.033	8	PSP-Business-Food_Retail-Lighting_Interior_General	20.04
Lighting - Hospital	8' LED LINEAR AMBIENT RETROFIT KIT	>= 9000 Lumens	Mixture of two lamps 8' T12 and T8	5182	0.122	632.204	0.084	435.288	0.038	196.916	0.026	10	PSP-Business-Hospital-Lighting_Interior_General	20.04
Lighting - Large Hotel (Corridor/Lobby)	8' LED LINEAR AMBIENT RETROFIT KIT	>= 9000 Lumens	Mixture of two lamps 8' T12 and T8	7884	0.122	961.848	0.084	662.256	0.038	299.592	0.036	6	PSP-Business-Large_Hotel-Lighting_Interior_General	20.04
Lighting - Large Non-Food Retail	8' LED LINEAR AMBIENT RETROFIT KIT	>= 9000 Lumens	Mixture of two lamps 8' T12 and T8	4089	0.122	498.858	0.084	343.476	0.038	155.382	0.023	12	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	20.04
Lighting - Large Office	8' LED LINEAR AMBIENT RETROFIT KIT	>= 9000 Lumens	Mixture of two lamps 8' T12 and T8	3610	0.122	440.420	0.084	303.240	0.038	137.180	0.025	14	PSP-Business-Large_Office-Lighting_Interior_General	20.04
Lighting - Nursing Home	8' LED LINEAR AMBIENT RETROFIT KIT	>= 9000 Lumens	Mixture of two lamps 8' T12 and T8	4308	0.122	525.576	0.084	361.872	0.038	163.704	0.025	12	PSP-Business-Nursing_Home-Lighting_Interior_General	20.04
Lighting - Other Non-Food Retail	8' LED LINEAR AMBIENT RETROFIT KIT	>= 9000 Lumens	Mixture of two lamps 8' T12 and T8	4089	0.122	498.858	0.084	343.476	0.038	155.382	0.029	12	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	20.04
Lighting - Restaurant	8' LED LINEAR AMBIENT RETROFIT KIT	>= 9000 Lumens	Mixture of two lamps 8' T12 and T8	5110	0.122	623.420	0.084	429.240	0.038	194.180	0.032	10	PSP-Business-Restaurant-Lighting_Interior_General	20.04
Lighting - Schools	8' LED LINEAR AMBIENT RETROFIT KIT	>= 9000 Lumens	Mixture of two lamps 8' T12 and T8	2596	0.122	316.712	0.084	218.064	0.038	98.648	0.005	19	PSP-Business-Schools-Lighting_Interior_General	20.04
Lighting - University Colleges	8' LED LINEAR AMBIENT RETROFIT KIT	>= 9000 Lumens	Mixture of two lamps 8' T12 and T8	3255	0.122	397.110	0.084	273.420	0.038	123.690	0.016	15	PSP-Business-University_Colleges-Lighting_Interior_General	20.04
Lighting - Warehouse Wholesale	8' LED LINEAR AMBIENT RETROFIT KIT	>= 9000 Lumens	Mixture of two lamps 8' T12 and T8	3759	0.122	458.598	0.084	315.756	0.038	142.842	0.028	13	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	20.04
Lighting - Other Commercial Buildings	8' LED LINEAR AMBIENT RETROFIT KIT	>= 9000 Lumens	Mixture of two lamps 8' T12 and T8	4000	0.122	488	0.084	336	0.038	152	0.024	18	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	20.04
Lighting - Other Commercial Buildings	8' LED LINEAR AMBIENT RETROFIT KIT	>= 4500 < 9000 Lumens	Mixture of one lamps 8' T12 and T8	4000	0.071	284	0.045	180	0.026	104	0.016	18	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	56.48
Lighting - Other Commercial Buildings	8' LED LINEAR AMBIENT FIXTURES	8' LED linear ambient fixture (>= 4500 <9000 Lumens)	Measure mix of T8 (Electronic Ballast) and T12 (8' ES Magnetic Ballast & 8' Magnetic Ballast)	4000	0.070	280.504	0.044	176	0.026	104.504	0.016	18	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	145.00
Lighting - Other Commercial Buildings	8' LED LINEAR AMBIENT FIXTURES	8' LED linear ambient fixture (>= 9000 Lumens)	Measure mix of T8 (Electronic Ballast) and T12 (8' ES Magnetic Ballast & 8' Magnetic Ballast)	4000	0.117	468.500	0.093	372	0.024	96.500	0.015	18	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	167.00
Lighting - Food Retail	8' LED LINEAR AMBIENT FIXTURES	8' LED linear ambient fixture (>= 4500 <9000 Lumens)	Measure mix of T8 (Electronic Ballast) and T12 (8' ES Magnetic Ballast & 8' Magnetic Ballast)	6074	0.070	425.945	0.044	267.256	0.026	158.689	0.023	8	PSP-Business-Food_Retail-Lighting_Interior_General	145.00
Lighting - Hospital	8' LED LINEAR AMBIENT FIXTURES	8' LED linear ambient fixture (>= 4500 <9000 Lumens)	Measure mix of T8 (Electronic Ballast) and T12 (8' ES Magnetic Ballast & 8' Magnetic Ballast)	5182	0.070	363.392	0.044	228.008	0.026	135.384	0.018	10	PSP-Business-Hospital-Lighting_Interior_General	145.00
Lighting - Large Hotel (Corridor/Lobby)	8' LED LINEAR AMBIENT FIXTURES	8' LED linear ambient fixture (>= 4500 <9000 Lumens)	Measure mix of T8 (Electronic Ballast) and T12 (8' ES Magnetic Ballast & 8' Magnetic Ballast)	7884	0.070	552.873	0.044	346.896	0.026	205.977	0.025	6	PSP-Business-Large_Hotel-Lighting_Interior_General	145.00
Lighting - Large Non-Food Retail	8' LED LINEAR AMBIENT FIXTURES	8' LED linear ambient fixture (>= 4500 <9000 Lumens)	Measure mix of T8 (Electronic Ballast) and T12 (8' ES Magnetic Ballast & 8' Magnetic Ballast)	4089	0.070	286.745	0.044	179.916	0.026	106.829	0.016	12	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	145.00
Lighting - Large Office	8' LED LINEAR AMBIENT FIXTURES	8' LED linear ambient fixture (>= 4500 <9000 Lumens)	Measure mix of T8 (Electronic Ballast) and T12 (8' ES Magnetic Ballast & 8' Magnetic Ballast)	3610	0.070	253.155	0.044	158.840	0.026	94.315	0.017	14	PSP-Business-Large_Office-Lighting_Interior_General	145.00



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPERATING_HOURS	BASE_CASE_KW	BASE_CASE_KWH	CONSERVATION_CASE_SE_KW	CONSERVATION_CASE_KWH	FIRST_YEAR_DEMAND_SAVINGS	FIRST_YEAR_ENERGY_SAVINGS	PEAK_DEMAND_SAVINGS	EFFECTIVE_USEFUL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE_COST
Lighting - Nursing Home	8' LED LINEAR AMBIENT FIXTURES	8' LED linear ambient fixture (>= 4500 <9000 Lumens)	Measure mix of T8 (Electronic Ballast) and T12 (8' ES Magnetic Ballast & 8' Magnetic Ballast)	4308	0.070	302.102	0.044	189.552	0.026	112.550	0.017	12	PSP-Business-Nursing_Home-Lighting_Interior_General	145.00
Lighting - Other Non-Food Retail	8' LED LINEAR AMBIENT FIXTURES	8' LED linear ambient fixture (>= 4500 <9000 Lumens)	Measure mix of T8 (Electronic Ballast) and T12 (8' ES Magnetic Ballast & 8' Magnetic Ballast)	4089	0.070	286.745	0.044	179.916	0.026	106.829	0.020	12	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	145.00
Lighting - Restaurant	8' LED LINEAR AMBIENT FIXTURES	8' LED linear ambient fixture (>= 4500 <9000 Lumens)	Measure mix of T8 (Electronic Ballast) and T12 (8' ES Magnetic Ballast & 8' Magnetic Ballast)	5110	0.070	358.343	0.044	224.840	0.026	133.503	0.022	10	PSP-Business-Restaurant-Lighting_Interior_General	145.00
Lighting - Schools	8' LED LINEAR AMBIENT FIXTURES	8' LED linear ambient fixture (>= 4500 <9000 Lumens)	Measure mix of T8 (Electronic Ballast) and T12 (8' ES Magnetic Ballast & 8' Magnetic Ballast)	2596	0.070	182.047	0.044	114.224	0.026	67.823	0.003	19	PSP-Business-Schools-Lighting_Interior_General	145.00
Lighting - University Colleges	8' LED LINEAR AMBIENT FIXTURES	8' LED linear ambient fixture (>= 4500 <9000 Lumens)	Measure mix of T8 (Electronic Ballast) and T12 (8' ES Magnetic Ballast & 8' Magnetic Ballast)	3255	0.070	228.260	0.044	143.220	0.026	85.040	0.011	15	PSP-Business-University_Colleges-Lighting_Interior_General	145.00
Lighting - Warehouse Wholesale	8' LED LINEAR AMBIENT FIXTURES	8' LED linear ambient fixture (>= 4500 <9000 Lumens)	Measure mix of T8 (Electronic Ballast) and T12 (8' ES Magnetic Ballast & 8' Magnetic Ballast)	3759	0.070	263.603	0.044	165.396	0.026	98.207	0.019	13	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	145.00
Lighting - Food Retail	8' LED LINEAR AMBIENT FIXTURES	8' LED linear ambient fixture (>= 9000 Lumens)	Measure mix of T8 (Electronic Ballast) and T12 (8' ES Magnetic Ballast & 8' Magnetic Ballast)	6074	0.117	711.417	0.093	564.882	0.024	146.535	0.021	8	PSP-Business-Food_Retail-Lighting_Interior_General	167.00
Lighting - Hospital	8' LED LINEAR AMBIENT FIXTURES	8' LED linear ambient fixture (>= 9000 Lumens)	Measure mix of T8 (Electronic Ballast) and T12 (8' ES Magnetic Ballast & 8' Magnetic Ballast)	5182	0.117	606.941	0.093	481.926	0.024	125.015	0.017	10	PSP-Business-Hospital-Lighting_Interior_General	167.00
Lighting - Large Hotel (Corridor/Lobby)	8' LED LINEAR AMBIENT FIXTURES	8' LED linear ambient fixture (>= 9000 Lumens)	Measure mix of T8 (Electronic Ballast) and T12 (8' ES Magnetic Ballast & 8' Magnetic Ballast)	7884	0.117	923.413	0.093	733.212	0.024	190.201	0.023	6	PSP-Business-Large_Hotel-Lighting_Interior_General	167.00
Lighting - Large Non-Food Retail	8' LED LINEAR AMBIENT FIXTURES	8' LED linear ambient fixture (>= 9000 Lumens)	Measure mix of T8 (Electronic Ballast) and T12 (8' ES Magnetic Ballast & 8' Magnetic Ballast)	4089	0.117	478.924	0.093	380.277	0.024	98.647	0.015	12	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	167.00
Lighting - Large Office	8' LED LINEAR AMBIENT FIXTURES	8' LED linear ambient fixture (>= 9000 Lumens)	Measure mix of T8 (Electronic Ballast) and T12 (8' ES Magnetic Ballast & 8' Magnetic Ballast)	3610	0.117	422.821	0.093	335.730	0.024	87.091	0.016	14	PSP-Business-Large_Office-Lighting_Interior_General	167.00
Lighting - Nursing Home	8' LED LINEAR AMBIENT FIXTURES	8' LED linear ambient fixture (>= 9000 Lumens)	Measure mix of T8 (Electronic Ballast) and T12 (8' ES Magnetic Ballast & 8' Magnetic Ballast)	4308	0.117	504.574	0.093	400.644	0.024	103.930	0.016	12	PSP-Business-Nursing_Home-Lighting_Interior_General	167.00
Lighting - Other Non-Food Retail	8' LED LINEAR AMBIENT FIXTURES	8' LED linear ambient fixture (>= 9000 Lumens)	Measure mix of T8 (Electronic Ballast) and T12 (8' ES Magnetic Ballast & 8' Magnetic Ballast)	4089	0.117	478.924	0.093	380.277	0.024	98.647	0.018	12	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	167.00
Lighting - Restaurant	8' LED LINEAR AMBIENT FIXTURES	8' LED linear ambient fixture (>= 9000 Lumens)	Measure mix of T8 (Electronic Ballast) and T12 (8' ES Magnetic Ballast & 8' Magnetic Ballast)	5110	0.117	598.508	0.093	475.230	0.024	123.278	0.020	10	PSP-Business-Restaurant-Lighting_Interior_General	167.00
Lighting - Schools	8' LED LINEAR AMBIENT FIXTURES	8' LED linear ambient fixture (>= 9000 Lumens)	Measure mix of T8 (Electronic Ballast) and T12 (8' ES Magnetic Ballast & 8' Magnetic Ballast)	2596	0.117	304.056	0.093	241.428	0.024	62.628	0.003	19	PSP-Business-Schools-Lighting_Interior_General	167.00
Lighting - University Colleges	8' LED LINEAR AMBIENT FIXTURES	8' LED linear ambient fixture (>= 9000 Lumens)	Measure mix of T8 (Electronic Ballast) and T12 (8' ES Magnetic Ballast & 8' Magnetic Ballast)	3255	0.117	381.241	0.093	302.715	0.024	78.526	0.010	15	PSP-Business-University_Colleges-Lighting_Interior_General	167.00
Lighting - Warehouse Wholesale	8' LED LINEAR AMBIENT FIXTURES	8' LED linear ambient fixture (>= 9000 Lumens)	Measure mix of T8 (Electronic Ballast) and T12 (8' ES Magnetic Ballast & 8' Magnetic Ballast)	3759	0.117	440.272	0.093	349.587	0.024	90.685	0.018	13	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	167.00
Lighting - Other Commercial Buildings	4' T8 LED / LED U-BEND LAMP	<=15W >= 1500 Lumens	Measure Mix of 4' T12 34W, T8 25W fluorescent lamp and T8 LED	4000	0.025	98.997	0.013	52	0.012	46.997	0.007	18	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	-2.06
Lighting - Other Commercial Buildings	4' T8 LED / LED U-BEND LAMP	<= 22W >= 2100 Lumens	Measure Mix of 4' T12 40W, T8 32W fluorescent lamp and T8 LED	4000	0.031	125.574	0.018	72	0.013	53.574	0.008	18	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	3.08
Lighting - Food Retail	4' T8 LED / LED U-BEND LAMP	<=15W >= 1500 Lumens	Measure Mix of 4' T12 34W, T8 25W fluorescent lamp and T8 LED	6074	0.025	150.328	0.013	78.962	0.012	71.366	0.010	8	PSP-Business-Food_Retail-Lighting_Interior_General	-2.06
Lighting - Hospital	4' T8 LED / LED U-BEND LAMP	<=15W >= 1500 Lumens	Measure Mix of 4' T12 34W, T8 25W fluorescent lamp and T8 LED	5182	0.025	128.251	0.013	67.366	0.012	60.885	0.008	10	PSP-Business-Hospital-Lighting_Interior_General	-2.06
Lighting - Large Hotel (Corridor/Lobby)	4' T8 LED / LED U-BEND LAMP	<=15W >= 1500 Lumens	Measure Mix of 4' T12 34W, T8 25W fluorescent lamp and T8 LED	7884	0.025	195.124	0.013	102.492	0.012	92.632	0.011	6	PSP-Business-Large_Hotel-Lighting_Interior_General	-2.06



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPERATING_HOURS	BASE_CASE_KW	BASE_CASE_KWH	CONSERVATION_CASE_SE_KW	CONSERVATION_CASE_KWH	FIRST_YEAR_DEMAND_SAVINGS	FIRST_YEAR_ENERGY_SAVINGS	PEAK_DEMAND_SAVINGS	EFFECTIVE_USEFUL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE_COST
Lighting - Large Non-Food Retail	4' T8 LED / LED U-BEND LAMP	<=15W >= 1500 Lumens	Measure Mix of 4' T12 34W, T8 25W fluorescent lamp and T8 LED	4089	0.025	101.200	0.013	53.157	0.012	48.043	0.007	12	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	-2.06
Lighting - Large Office	4' T8 LED / LED U-BEND LAMP	<=15W >= 1500 Lumens	Measure Mix of 4' T12 34W, T8 25W fluorescent lamp and T8 LED	3610	0.025	89.345	0.013	46.930	0.012	42.415	0.008	14	PSP-Business-Large_Office-Lighting_Interior_General	-2.06
Lighting - Nursing Home	4' T8 LED / LED U-BEND LAMP	<=15W >= 1500 Lumens	Measure Mix of 4' T12 34W, T8 25W fluorescent lamp and T8 LED	4308	0.025	106.620	0.013	56.004	0.012	50.616	0.008	12	PSP-Business-Nursing_Home-Lighting_Interior_General	-2.06
Lighting - Other Non-Food Retail	4' T8 LED / LED U-BEND LAMP	<=15W >= 1500 Lumens	Measure Mix of 4' T12 34W, T8 25W fluorescent lamp and T8 LED	4089	0.025	101.200	0.013	53.157	0.012	48.043	0.009	12	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	-2.06
Lighting - Restaurant	4' T8 LED / LED U-BEND LAMP	<=15W >= 1500 Lumens	Measure Mix of 4' T12 34W, T8 25W fluorescent lamp and T8 LED	5110	0.025	126.469	0.013	66.430	0.012	60.039	0.010	10	PSP-Business-Restaurant-Lighting_Interior_General	-2.06
Lighting - Schools	4' T8 LED / LED U-BEND LAMP	<=15W >= 1500 Lumens	Measure Mix of 4' T12 34W, T8 25W fluorescent lamp and T8 LED	2596	0.025	64.249	0.013	33.748	0.012	30.501	0.002	19	PSP-Business-Schools-Lighting_Interior_General	-2.06
Lighting - University Colleges	4' T8 LED / LED U-BEND LAMP	<=15W >= 1500 Lumens	Measure Mix of 4' T12 34W, T8 25W fluorescent lamp and T8 LED	3255	0.025	80.559	0.013	42.315	0.012	38.244	0.005	15	PSP-Business-University_Colleges-Lighting_Interior_General	-2.06
Lighting - Warehouse Wholesale	4' T8 LED / LED U-BEND LAMP	<=15W >= 1500 Lumens	Measure Mix of 4' T12 34W, T8 25W fluorescent lamp and T8 LED	3759	0.025	93.033	0.013	48.867	0.012	44.166	0.009	13	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	-2.06
Lighting - Food Retail	4' T8 LED / LED U-BEND LAMP	<= 22W >= 2100 Lumens	Measure Mix of 4' T12 40W, T8 32W fluorescent lamp and T8 LED	6074	0.031	190.685	0.018	109.332	0.013	81.353	0.012	8	PSP-Business-Food_Retail-Lighting_Interior_General	3.08
Lighting - Hospital	4' T8 LED / LED U-BEND LAMP	<= 22W >= 2100 Lumens	Measure Mix of 4' T12 40W, T8 32W fluorescent lamp and T8 LED	5182	0.031	162.682	0.018	93.276	0.013	69.406	0.009	10	PSP-Business-Hospital-Lighting_Interior_General	3.08
Lighting - Large Hotel (Corridor/Lobby)	4' T8 LED / LED U-BEND LAMP	<= 22W >= 2100 Lumens	Measure Mix of 4' T12 40W, T8 32W fluorescent lamp and T8 LED	7884	0.031	247.507	0.018	141.912	0.013	105.595	0.013	6	PSP-Business-Large_Hotel-Lighting_Interior_General	3.08
Lighting - Large Non-Food Retail	4' T8 LED / LED U-BEND LAMP	<= 22W >= 2100 Lumens	Measure Mix of 4' T12 40W, T8 32W fluorescent lamp and T8 LED	4089	0.031	128.369	0.018	73.602	0.013	54.767	0.008	12	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	3.08
Lighting - Large Office	4' T8 LED / LED U-BEND LAMP	<= 22W >= 2100 Lumens	Measure Mix of 4' T12 40W, T8 32W fluorescent lamp and T8 LED	3610	0.031	113.331	0.018	64.980	0.013	48.351	0.009	14	PSP-Business-Large_Office-Lighting_Interior_General	3.08
Lighting - Nursing Home	4' T8 LED / LED U-BEND LAMP	<= 22W >= 2100 Lumens	Measure Mix of 4' T12 40W, T8 32W fluorescent lamp and T8 LED	4308	0.031	135.244	0.018	77.544	0.013	57.700	0.009	12	PSP-Business-Nursing_Home-Lighting_Interior_General	3.08
Lighting - Other Non-Food Retail	4' T8 LED / LED U-BEND LAMP	<= 22W >= 2100 Lumens	Measure Mix of 4' T12 40W, T8 32W fluorescent lamp and T8 LED	4089	0.031	128.369	0.018	73.602	0.013	54.767	0.010	12	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	3.08
Lighting - Restaurant	4' T8 LED / LED U-BEND LAMP	<= 22W >= 2100 Lumens	Measure Mix of 4' T12 40W, T8 32W fluorescent lamp and T8 LED	5110	0.031	160.421	0.018	91.980	0.013	68.441	0.011	10	PSP-Business-Restaurant-Lighting_Interior_General	3.08
Lighting - Schools	4' T8 LED / LED U-BEND LAMP	<= 22W >= 2100 Lumens	Measure Mix of 4' T12 40W, T8 32W fluorescent lamp and T8 LED	2596	0.031	81.498	0.018	46.728	0.013	34.770	0.002	19	PSP-Business-Schools-Lighting_Interior_General	3.08
Lighting - University Colleges	4' T8 LED / LED U-BEND LAMP	<= 22W >= 2100 Lumens	Measure Mix of 4' T12 40W, T8 32W fluorescent lamp and T8 LED	3255	0.031	102.186	0.018	58.590	0.013	43.596	0.006	15	PSP-Business-University_Colleges-Lighting_Interior_General	3.08
Lighting - Warehouse Wholesale	4' T8 LED / LED U-BEND LAMP	<= 22W >= 2100 Lumens	Measure Mix of 4' T12 40W, T8 32W fluorescent lamp and T8 LED	3759	0.031	118.009	0.018	67.662	0.013	50.347	0.010	13	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	3.08
Lighting - Other Commercial Buildings	4' TSHO LED TUBE REPLACEMENT (UL TYPE A, B, & C)	<= 32W >= 3200 Lumens	Measure Mix of 4' TSHO fluorescent lamp 54W and TSHO LED	4000	0.060	239.851	0.028	112	0.032	127.851	0.020	18	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	0.71
Lighting - Warehouse Wholesale	4' TSHO LED TUBE REPLACEMENT (UL TYPE A, B, & C)	<= 32W >= 3200 Lumens	Measure Mix of 4' TSHO fluorescent lamp 54W and TSHO LED	3759	0.060	225.400	0.028	105.252	0.032	120.148	0.024	13	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	0.71
Lighting - Food Retail	4' TSHO LED TUBE REPLACEMENT (UL TYPE A, B, & C)	<= 32W >= 3200 Lumens	Measure Mix of 4' TSHO fluorescent lamp 54W and TSHO LED	6074	0.060	364.213	0.028	170.072	0.032	194.141	0.028	8	PSP-Business-Food_Retail-Lighting_Interior_General	0.71



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPERATING_HOURS	BASE_CASE_KW	BASE_CASE_KWH	CONSERVATION_CASE_SE_KW	CONSERVATION_CASE_KWH	FIRST_YEAR_DEMAND_SAVINGS	FIRST_YEAR_ENERGY_SAVINGS	PEAK_DEMAND_SAVINGS	EFFECTIVE_USEFUL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE_COST
Lighting - Hospital	4' TSHO LED TUBE REPLACEMENT (UL TYPE A, B, & C)	<= 32W >= 3200 Lumens	Measure Mix of 4' TSHO fluorescent lamp 54W and TSHO LED	5182	0.060	310.726	0.028	145.096	0.032	165.630	0.022	10	PSP-Business-Hospital-Lighting_Interior_General	0.71
Lighting - Large Hotel (Corridor/Lobby)	4' TSHO LED TUBE REPLACEMENT (UL TYPE A, B, & C)	<= 32W >= 3200 Lumens	Measure Mix of 4' TSHO fluorescent lamp 54W and TSHO LED	7884	0.060	472.745	0.028	220.752	0.032	251.993	0.030	6	PSP-Business-Large_Hotel-Lighting_Interior_General	0.71
Lighting - Large Non-Food Retail	4' TSHO LED TUBE REPLACEMENT (UL TYPE A, B, & C)	<= 32W >= 3200 Lumens	Measure Mix of 4' TSHO fluorescent lamp 54W and TSHO LED	4089	0.060	245.187	0.028	114.492	0.032	130.695	0.019	12	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	0.71
Lighting - Large Office	4' TSHO LED TUBE REPLACEMENT (UL TYPE A, B, & C)	<= 32W >= 3200 Lumens	Measure Mix of 4' TSHO fluorescent lamp 54W and TSHO LED	3610	0.060	216.465	0.028	101.080	0.032	115.385	0.021	14	PSP-Business-Large_Office-Lighting_Interior_General	0.71
Lighting - Nursing Home	4' TSHO LED TUBE REPLACEMENT (UL TYPE A, B, & C)	<= 32W >= 3200 Lumens	Measure Mix of 4' TSHO fluorescent lamp 54W and TSHO LED	4308	0.060	258.319	0.028	120.624	0.032	137.695	0.021	12	PSP-Business-Nursing_Home-Lighting_Interior_General	0.71
Lighting - Other Non-Food Retail	4' TSHO LED TUBE REPLACEMENT (UL TYPE A, B, & C)	<= 32W >= 3200 Lumens	Measure Mix of 4' TSHO fluorescent lamp 54W and TSHO LED	4089	0.060	245.187	0.028	114.492	0.032	130.695	0.024	12	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	0.71
Lighting - Restaurant	4' TSHO LED TUBE REPLACEMENT (UL TYPE A, B, & C)	<= 32W >= 3200 Lumens	Measure Mix of 4' TSHO fluorescent lamp 54W and TSHO LED	5110	0.060	306.409	0.028	143.080	0.032	163.329	0.027	10	PSP-Business-Restaurant-Lighting_Interior_General	0.71
Lighting - Schools	4' TSHO LED TUBE REPLACEMENT (UL TYPE A, B, & C)	<= 32W >= 3200 Lumens	Measure Mix of 4' TSHO fluorescent lamp 54W and TSHO LED	2596	0.060	155.663	0.028	72.688	0.032	82.975	0.004	19	PSP-Business-Schools-Lighting_Interior_General	0.71
Lighting - University Colleges	4' TSHO LED TUBE REPLACEMENT (UL TYPE A, B, & C)	<= 32W >= 3200 Lumens	Measure Mix of 4' TSHO fluorescent lamp 54W and TSHO LED	3255	0.060	195.178	0.028	91.140	0.032	104.038	0.014	15	PSP-Business-University_Colleges-Lighting_Interior_General	0.71
Lighting - Other Commercial Buildings	4' T5 LED TUBE REPLACEMENT (UL TYPE A, B, & C)	<=28W >= 1600 Lumens	Measure Mix of 4' T5 fluorescent lamp 28W and T5 LED	4000	0.032	127.291	0.019	76.000	0.013	51.291	0.008	18	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	5.16
Lighting - Food Retail	4' T5 LED TUBE REPLACEMENT (UL TYPE A, B, & C)	<=28W >= 1600 Lumens	Measure Mix of 4' T5 fluorescent lamp 28W and T5 LED	6074	0.032	193.291	0.019	115.406	0.013	77.885	0.011	8	PSP-Business-Food_Retail-Lighting_Interior_General	5.16
Lighting - Hospital	4' T5 LED TUBE REPLACEMENT (UL TYPE A, B, & C)	<=28W >= 1600 Lumens	Measure Mix of 4' T5 fluorescent lamp 28W and T5 LED	5182	0.032	164.905	0.019	98.458	0.013	66.447	0.009	10	PSP-Business-Hospital-Lighting_Interior_General	5.16
Lighting - Large Hotel (Corridor/Lobby)	4' T5 LED TUBE REPLACEMENT (UL TYPE A, B, & C)	<=28W >= 1600 Lumens	Measure Mix of 4' T5 fluorescent lamp 28W and T5 LED	7884	0.032	250.890	0.019	149.796	0.013	101.094	0.012	6	PSP-Business-Large_Hotel-Lighting_Interior_General	5.16
Lighting - Large Non-Food Retail	4' T5 LED TUBE REPLACEMENT (UL TYPE A, B, & C)	<=28W >= 1600 Lumens	Measure Mix of 4' T5 fluorescent lamp 28W and T5 LED	4089	0.032	130.123	0.019	77.691	0.013	52.432	0.008	12	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	5.16
Lighting - Large Office	4' T5 LED TUBE REPLACEMENT (UL TYPE A, B, & C)	<=28W >= 1600 Lumens	Measure Mix of 4' T5 fluorescent lamp 28W and T5 LED	3610	0.032	114.880	0.019	68.590	0.013	46.290	0.008	14	PSP-Business-Large_Office-Lighting_Interior_General	5.16
Lighting - Nursing Home	4' T5 LED TUBE REPLACEMENT (UL TYPE A, B, & C)	<=28W >= 1600 Lumens	Measure Mix of 4' T5 fluorescent lamp 28W and T5 LED	4308	0.032	137.092	0.019	81.852	0.013	55.240	0.008	12	PSP-Business-Nursing_Home-Lighting_Interior_General	5.16
Lighting - Other Non-Food Retail	4' T5 LED TUBE REPLACEMENT (UL TYPE A, B, & C)	<=28W >= 1600 Lumens	Measure Mix of 4' T5 fluorescent lamp 28W and T5 LED	4089	0.032	130.123	0.019	77.691	0.013	52.432	0.010	12	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	5.16
Lighting - Restaurant	4' T5 LED TUBE REPLACEMENT (UL TYPE A, B, & C)	<=28W >= 1600 Lumens	Measure Mix of 4' T5 fluorescent lamp 28W and T5 LED	5110	0.032	162.614	0.019	97.090	0.013	65.524	0.011	10	PSP-Business-Restaurant-Lighting_Interior_General	5.16
Lighting - Schools	4' T5 LED TUBE REPLACEMENT (UL TYPE A, B, & C)	<=28W >= 1600 Lumens	Measure Mix of 4' T5 fluorescent lamp 28W and T5 LED	2596	0.032	82.612	0.019	49.324	0.013	33.288	0.002	19	PSP-Business-Schools-Lighting_Interior_General	5.16
Lighting - University Colleges	4' T5 LED TUBE REPLACEMENT (UL TYPE A, B, & C)	<=28W >= 1600 Lumens	Measure Mix of 4' T5 fluorescent lamp 28W and T5 LED	3255	0.032	103.583	0.019	61.845	0.013	41.738	0.005	15	PSP-Business-University_Colleges-Lighting_Interior_General	5.16
Lighting - Warehouse Wholesale	4' T5 LED TUBE REPLACEMENT (UL TYPE A, B, & C)	<=28W >= 1600 Lumens	Measure Mix of 4' T5 fluorescent lamp 28W and T5 LED	3759	0.032	119.622	0.019	71.421	0.013	48.201	0.009	13	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	5.16
Lighting - Greenhouses	LED GROW LIGHTS - VEGETABLE GREENHOUSES	LED top lighting fixture installed in a vegetables/fruits/flowers greenhouse	1000W High Intensity Discharge (HID)	2400	1.080	2592	0.540	1296	0.540	1296	0.005	21	CUSTOM-Business-Other_Commercial_Buildings-CUSTOM-Industrial-Agriculture-Horticultural Lighting_Veg	580.00



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPERATING_HOURS	BASE_CASE_KW	BASE_CASE_KWH	CONSERVATION_CASE_KW	CONSERVATION_CASE_KWH	FIRST_YEAR_DEMAND_SAVINGS	FIRST_YEAR_ENERGY_SAVINGS	PEAK_DEMAND_SAVINGS	EFFECTIVE_USEFUL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFECYCLE_COST
Lighting - Greenhouses	LED GROW LIGHTS - CANNABIS GREENHOUSES	LED top lighting fixture installed in a cannabis greenhouse	Measure mix of HPS, MH and TSHO	2800	0.866	2424.800	0.488	1366	0.378	1096	0.005	18	CUSTOM-Business-Other_Commercial_Buildings-CUSTOM-Industrial-Agriculture-Horticultural Lighting-Cannabis	104.00
Lighting - Greenhouses	LED GROW LIGHTS - CANNABIS WAREHOUSES	LED top lighting fixture installed in a cannabis warehouse	Measure mix of HPS, MH and TSHO	5800	0.748	4339	0.471	2732	0.277	1607	0.007	9	CUSTOM-Business-Other_Commercial_Buildings-CUSTOM-Industrial-Agriculture-Horticultural Lighting-Cannabis	307.00
Lighting - Greenhouses	HORTICULTURAL INTER-LIGHTING LED GROW LIGHT FIXTURE	LED grow lights installed within the canopy illuminating a vertical growing surface	Assumed 10 fluorescentT8 provides the equivalent brightness at the same distance away from the vertical growing surface as one EE fixture	5327	0.586	3123	0.096	511	0.490	2612	0.009	9	Other_Commercial_Buildings-CUSTOM-Industrial-Agriculture-Horticultural Lighting-Cannabis	-360.93
Lighting - Greenhouses	GREENHOUSE ADVANCED LIGHTING CONTROL	Enter the total wattage (kW) of the lighting fixtures which are being controlled by the Greenhouse Advanced Lighting Control System.	No existing controls or basic lighting control systems	3488					0.000	kWh=kW*488.32	0.000	16	CUSTOM-Business-Other_Commercial_Buildings-CUSTOM-Industrial-Agriculture-Horticultural Lighting-Veg	\$2780/kW