

IESO Prescriptive Measures and Assumptions List June 2022

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

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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 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	≤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	\$7.00
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	\$10.00
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	\$16.00
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	\$19.00
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	\$10.00
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	\$17.00
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	\$2.50
Hot Water	EFFICIENT AERATORS	Bathroom - Flow Rate ≤ 3.8 L/min	Electric DHW Aerator with Flow Rate = 8.3 L/min	-	-	62.0	-	\$28.19	-	33.8	0.003	10	PSP-Consumer-Residential-Domestic_Hot_Water	\$6.00
Hot Water	EFFICIENT AERATORS	Kitchen - Flow Rate ≤ 5.7 L/min	Electric DHW Aerator with Flow Rate = 8.3 L/min	-	-	433.250	-	\$295.40	-	137.9	0.027	10	PSP-Consumer-Residential-Cooking	\$6.00
Hot Water	EFFICIENT SHOWERHEAD (HANDHELD)	Flow Rate < 4.8 L/min	Electric DHW Showerhead with Flow Rate = 7.57 L/min	-	-	555.1	-	\$346.90	-	208.2	0.019	10	PSP-Consumer-Residential-Domestic_Hot_Water	\$12.00
Hot Water	EFFICIENT SHOWERHEAD (STANDARD)	Flow Rate < 4.8 L/min	Electric DHW Showerhead with Flow Rate = 7.57 L/min	-	-	555.1	-	\$416.29	-	138.8	0.013	10	PSP-Consumer-Residential-Domestic_Hot_Water	\$10.00
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	\$4.00
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	\$4.00
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	\$138.00
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	\$333.00
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	\$357.00

Consumer Measures - Energy Affordability Program (EAP)
For other programs, the savings assumptions need to be reviewed.



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
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	\$422.00
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	\$740.00
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	\$318.00
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	\$535.00
HVAC Control	PROGRAMMABLE THERMOSTAT	Line-voltage Programmable Thermostat - Baseboard Heater	Non-programmable thermostat	-	-	-	-	-	-	139.7	0.001	11	EM&V-Residential-Electric_Heating	\$249.00
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	\$342.00
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	\$357.00
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	\$195.00
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	\$536.00
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	\$627.00
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	\$894.00
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	\$1,152.00
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	\$862.00
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	\$1,010.00
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	\$1,347.00
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	\$1,239.00

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
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	-	\$411.81	-	88.2	0.012	12	PSP-Consumer-Residential-Clothes_Dryers	\$50.00
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	\$33.00
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	\$85.00
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	\$0.48 per sqft.
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	\$0.48 per sqft.
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	\$1.92 per sqft.
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	\$1.92 per sqft.
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	\$2.86 per sqft.
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	\$2.86 per sqft.
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	\$3.78 per sqft.
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	\$3.78 per sqft.



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPE RATING_HOURS	BASE_CASE_K W	BASE_CASE_K WH	CONSERVATION _CASE_KW	CONSERVATION CASE_KWH	FIRST_YEAR_DEMAND_S AVINGS	FIRST_YEAR_ENERGY_SA VINGS	PEAK_DEMAND_SA VINGS	EFFECTIVE_USEF UL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE COST
Lighting - Food Retail	4' T5 LED TUBE REPLACEMENT (UL TYPE A, B, & C)	<=28W >= 1600 Lumens	4' T5 fluorescent lamp 28W	6074	0.032	194	0.019	115.4	0.013	79.0	0.011	8.0	PSP-Business-Food_Retail-Lighting_Interior_General	5.16
Lighting -Hospital	8' LED LINEAR AMBIENT RETROFIT KIT	>= 4500 < 9000 Lumens	Mixture of One lamp 8' T12 and T8	5182	0.071	368	0	233	0	135	0.018	10.0	PSP-Business-Hospital-Lighting_Interior_General	56.48
Lighting - Large Hotel (Corridor/Lobby)	4' T5 LED TUBE REPLACEMENT (UL TYPE A, B, & C)	<=28W >= 1600 Lumens	4' T5 fluorescent lamp 28W	7884	0.032	252	0.019	149.8	0.013	102.5	0.012	6.0	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	4' T5 fluorescent lamp 28W	4089	0.032	131	0.019	77.7	0.013	53.2	0.008	12.0	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	4' T5 fluorescent lamp 28W	3610	0.032	116	0.019	68.6	0.013	46.9	0.008	14.0	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	4' T5 fluorescent lamp 28W	4308	0.032	138	0.019	81.9	0.013	56.0	0.008	12.0	PSP-Business-Nursing_Home-Lighting_Interior_General	5.16
Lighting - Other Commercial Buildings	4' T5 LED TUBE REPLACEMENT (UL TYPE A, B, & C)	<=28W >= 1600 Lumens	4' T5 fluorescent lamp 28W	2857	0.032	91	0.019	54.3	0.013	37.1	0.006	18.0	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	5.16
Lighting - Other Non-Food Retail	4' T5 LED TUBE REPLACEMENT (UL TYPE A, B, & C)	<=28W >= 1600 Lumens	4' T5 fluorescent lamp 28W	4089	0.032	131	0.019	77.7	0.013	53.2	0.010	12.0	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	4' T5 fluorescent lamp 28W	5110	0.032	164	0.019	97.1	0.013	66.4	0.011	10.0	PSP-Business-Restaurant-Lighting_Interior_General	5.16
Lighting - Schools	4' T5 LED TUBE REPLACEMENT (UL TYPE A, B, & C)	<=28W >= 1600 Lumens	4' T5 fluorescent lamp 28W	2596	0.032	83	0.019	49.3	0.013	33.7	0.002	19.0	PSP-Business-Schools-Lighting_Interior_General	5.16
Lighting - University Colleges	4' T5 LED TUBE REPLACEMENT (UL TYPE A, B, & C)	<=28W >= 1600 Lumens	4' T5 fluorescent lamp 28W	3255	0.032	104	0.019	61.8	0.013	42.3	0.006	15.0	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	4' T5 fluorescent lamp 28W	3759	0.032	120	0	71	0	49	0.010	13.0	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	5.16
Lighting - Food Retail	4' T5HO LED TUBE REPLACEMENT (UL TYPE A, B, & C)	<= 32W >= 3200 Lumens	4' T5HO fluorescent lamp 54W	6074	0.061	371	0.028	170.1	0.033	200.4	0.028	8.0	PSP-Business-Food_Retail-Lighting_Interior_General	1
Lighting -Hospital	8' LED LINEAR AMBIENT RETROFIT KIT	>= 9000 Lumens	Mixture of two lamp 8' T12 and T8	5182	0.122	632	0.084	435.3	0.038	196.9	0.026	10.0	PSP-Business-Hospital-Lighting_Interior_General	20
Lighting - Large Hotel (Corridor/Lobby)	4' T5HO LED TUBE REPLACEMENT (UL TYPE A, B, & C)	<= 32W >= 3200 Lumens	4' T5HO fluorescent lamp 54W	7884	0.061	481	0.028	220.8	0.033	260.2	0.031	6.0	PSP-Business-Large_Hotel-Lighting_Interior_General	1
Lighting - Large Non-Food Retail	4' T5HO LED TUBE REPLACEMENT (UL TYPE A, B, & C)	<= 32W >= 3200 Lumens	4' T5HO fluorescent lamp 54W	4089	0.061	249	0.028	114.5	0.033	134.9	0.020	12.0	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	1



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPE RATING_HOURS	BASE_CASE_K W	BASE_CASE_K WH	CONSERVATION _CASE_KW	CONSERVATION CASE_KWH	FIRST_YEAR_DEMAND_S AVINGS	FIRST_YEAR_ENERGY_SA VINGS	PEAK_DEMAND_SA VINGS	EFFECTIVE_USEF UL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE COST
Lighting - Large Office	4' T5HO LED TUBE REPLACEMENT (UL TYPE A, B, & C)	<= 32W >= 3200 Lumens	4' T5HO fluorescent lamp 54W	3610	0.061	220	0.028	101.1	0.033	119.1	0.021	14.0	PSP-Business-Large_Office-Lighting_Interior_General	0.71
Lighting - Nursing Home	4' T5HO LED TUBE REPLACEMENT (UL TYPE A, B, & C)	<= 32W >= 3200 Lumens	4' T5HO fluorescent lamp 54W	4308	0.061	263	0.028	120.6	0.033	142.2	0.022	12.0	PSP-Business-Nursing_Home-Lighting_Interior_General	1
Lighting - Other Commercial Buildings	4' T5HO LED TUBE REPLACEMENT (UL TYPE A, B, & C)	<= 32W >= 3200 Lumens	4' T5HO fluorescent lamp 54W	2857	0.061	174	0.028	80.0	0.033	94.3	0.015	18.0	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	1
Lighting - Other Non-Food Retail	4' T5HO LED TUBE REPLACEMENT (UL TYPE A, B, & C)	<= 32W >= 3200 Lumens	4' T5HO fluorescent lamp 54W	4089	0.061	249	0.028	114.5	0.033	134.9	0.025	12.0	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	1
Lighting - Restaurant	4' T5HO LED TUBE REPLACEMENT (UL TYPE A, B, & C)	<= 32W >= 3200 Lumens	4' T5HO fluorescent lamp 54W	5110	0.061	312	0	143	0	169	0.028	10.0	PSP-Business-Restaurant-Lighting_Interior_General	0.71
Lighting - Schools	4' T5HO LED TUBE REPLACEMENT (UL TYPE A, B, & C)	<= 32W >= 3200 Lumens	4' T5HO fluorescent lamp 54W	2596	0.061	158	0.0	72.7	0.0	85.7	0.004	19.0	PSP-Business-Schools-Lighting_Interior_General	0.71
Lighting - University Colleges	4' T5HO LED TUBE REPLACEMENT (UL TYPE A, B, & C)	<= 32W >= 3200 Lumens	4' T5HO fluorescent lamp 54W	3255	0.061	199	0.028	91.1	0.033	107.4	0.014	15.0	PSP-Business-University_Colleges-Lighting_Interior_General	0.71
Lighting - Warehouse Wholesale	4' T5HO LED TUBE REPLACEMENT (UL TYPE A, B, & C)	<= 32W >= 3200 Lumens	4' T5HO fluorescent lamp 54W	3759	0.061	229	0.028	105.3	0.033	124.0	0.024	13.0	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	0.71
Lighting - Food Retail	4' T8 LED / LED U-Bend Lamp	<= 22W >= 2100 Lumens	4' T8 fluorescent lamp 32W Electronic Ballast	6074	0.029	176	0	109	0	67	0.009	8.0	PSP-Business-Food_Retail-Lighting_Interior_General	3.08
Lighting - Hospital	4' T5 LED TUBE REPLACEMENT (UL TYPE A, B, & C)	<=28W >= 1600 Lumens	4' T5 fluorescent lamp 28W	5,182.00	0.03	166	0.019	98.458	0.013	67.366	0.009	10.0	PSP-Business-Hospital-Lighting_Interior_General	5
Lighting - Large Hotel (Corridor/Lobby)	4' T8 LED / LED U-Bend Lamp	<= 22W >= 2100 Lumens	4' T8 fluorescent lamp 32W Electronic Ballast	7884	0.029	229	0.018	141.912	0.011	86.724	0.010	6.0	PSP-Business-Large_Hotel-Lighting_Interior_General	3.08
Lighting - Large Non-Food Retail	4' T8 LED / LED U-Bend Lamp	<= 22W >= 2100 Lumens	4' T8 fluorescent lamp 32W Electronic Ballast	4089	0.029	119	0.018	73.602	0.011	44.979	0.007	12.0	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	3.08
Lighting - Large Office	4' T8 LED / LED U-Bend Lamp	<= 22W >= 2100 Lumens	4' T8 fluorescent lamp 32W Electronic Ballast	3610	0.029	105	0.018	64.98	0.011	39.71	0.007	14.0	PSP-Business-Large_Office-Lighting_Interior_General	3.08
Lighting - Nursing Home	4' T8 LED / LED U-Bend Lamp	<= 22W >= 2100 Lumens	4' T8 fluorescent lamp 32W Electronic Ballast	4308	0.029	125	0.018	77.544	0.011	47.388	0.007	12.0	PSP-Business-Nursing_Home-Lighting_Interior_General	3.08
Lighting - Other Commercial Buildings	4' T8 LED / LED U-Bend Lamp	<= 22W >= 2100 Lumens	4' T8 fluorescent lamp 32W Electronic Ballast	2857	0.029	83	0.018	51.426	0.011	31.427	0.005	18.0	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	3.08
Lighting - Other Non-Food Retail	4' T8 LED / LED U-Bend Lamp	<= 22W >= 2100 Lumens	4' T8 fluorescent lamp 32W Electronic Ballast	4089	0.029	119	0.018	73.602	0.011	44.979	0.008	12.0	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	3.08



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPE RATING_HOURS	BASE_CASE_K W	BASE_CASE_K WH	CONSERVATION _CASE_KW	CONSERVATION _CASE_KWH	FIRST_YEAR_DEMAND_S AVINGS	FIRST_YEAR_ENERGY_SA VINGS	PEAK_DEMAND_SA VINGS	EFFECTIVE_USEF UL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE COST
Lighting - Restaurant	4' T8 LED / LED U-Bend Lamp	<= 22W >= 2100 Lumens	4' T8 fluorescent lamp 32W Electronic Ballast	5110	0.029	148	0.018	91.98	0.011	56.21	0.009	10.0	PSP-Business-Restaurant-Lighting_Interior_General	3.08
Lighting - Schools	4' T8 LED / LED U-Bend Lamp	<= 22W >= 2100 Lumens	4' T8 fluorescent lamp 32W Electronic Ballast	2596	0.029	75	0.018	46.728	0.011	28.556	0.001	19.0	PSP-Business-Schools-Lighting_Interior_General	3.08
Lighting - University Colleges	4' T8 LED / LED U-Bend Lamp	<= 22W >= 2100 Lumens	4' T8 fluorescent lamp 32W Electronic Ballast	3255	0.029	94	0.018	58.59	0.011	35.805	0.005	15.0	PSP-Business-University_Colleges-Lighting_Interior_General	3.08
Lighting - Warehouse Wholesale	4' T8 LED / LED U-Bend Lamp	<= 22W >= 2100 Lumens	4' T8 fluorescent lamp 32W Electronic Ballast	3759	0.029	109	0.018	67.662	0.011	41.349	0.008	13.0	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	3.08
Lighting - Food Retail	4' T8 LED / LED U-Bend Lamp	<=15W >= 1500 Lumens	4' T8 fluorescent lamp 25W Electronic Ballast	6074	0.023	140	0.013	78.962	0.01	60.74	0.009	8.0	PSP-Business-Food_Retail-Lighting_Interior_General	-2.06
Lighting - Hospital	4' T5HO LED TUBE REPLACEMENT (UL TYPE A, B, & C)	<= 32W >= 3200 Lumens	4' T5HO fluorescent lamp 54W	5182	0.061	316	0.028	145.096	0.033	171.006	0.023	10.0	PSP-Business-Hospital-Lighting_Interior_General	0.71
Lighting - Large Hotel (Corridor/Lobby)	4' T8 LED / LED U-Bend Lamp	<=15W >= 1500 Lumens	4' T8 fluorescent lamp 25W Electronic Ballast	7884	0.023	181	0.013	102.492	0.01	78.84	0.010	6.0	PSP-Business-Large_Hotel-Lighting_Interior_General	-2.06
Lighting - Large Non-Food Retail	4' T8 LED / LED U-Bend Lamp	<=15W >= 1500 Lumens	4' T8 fluorescent lamp 25W Electronic Ballast	4089	0.023	94	0.013	53.157	0.01	40.89	0.006	12.0	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	-2.06
Lighting - Large Office	4' T8 LED / LED U-Bend Lamp	<=15W >= 1500 Lumens	4' T8 fluorescent lamp 25W Electronic Ballast	3610	0.023	83	0.013	46.93	0.01	36.1	0.006	14.0	PSP-Business-Large_Office-Lighting_Interior_General	-2.06
Lighting - Nursing Home	4' T8 LED / LED U-Bend Lamp	<=15W >= 1500 Lumens	4' T8 fluorescent lamp 25W Electronic Ballast	4308	0.023	99	0.013	56.004	0.01	43.08	0.007	12.0	PSP-Business-Nursing_Home-Lighting_Interior_General	-2.06
Lighting - Other Commercial Buildings	4' T8 LED / LED U-Bend Lamp	<=15W >= 1500 Lumens	4' T8 fluorescent lamp 25W Electronic Ballast	2857	0.023	66	0.013	37.141	0.01	28.57	0.005	18.0	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	-2.06
Lighting - Other Non-Food Retail	4' T8 LED / LED U-Bend Lamp	<=15W >= 1500 Lumens	4' T8 fluorescent lamp 25W Electronic Ballast	4089	0.023	94	0.013	53.157	0.01	40.89	0.008	12.0	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	-2.06
Lighting - Restaurant	4' T8 LED / LED U-Bend Lamp	<=15W >= 1500 Lumens	4' T8 fluorescent lamp 25W Electronic Ballast	5110	0.023	118	0.013	66.43	0.01	51.1	0.008	10.0	PSP-Business-Restaurant-Lighting_Interior_General	-2.06
Lighting - Schools	4' T8 LED / LED U-Bend Lamp	<=15W >= 1500 Lumens	4' T8 fluorescent lamp 25W Electronic Ballast	2596	0.023	60	0.013	33.748	0.01	25.96	0.001	19.0	PSP-Business-Schools-Lighting_Interior_General	-2.06
Lighting - University Colleges	4' T8 LED / LED U-Bend Lamp	<=15W >= 1500 Lumens	4' T8 fluorescent lamp 25W Electronic Ballast	3255	0.023	75	0.013	42.315	0.01	32.55	0.004	15.0	PSP-Business-University_Colleges-Lighting_Interior_General	-2.06
Lighting - Warehouse Wholesale	4' T8 LED / LED U-Bend Lamp	<=15W >= 1500 Lumens	4' T8 fluorescent lamp 25W Electronic Ballast	3759	0.023	86	0.013	48.867	0.01	37.59	0.007	13.0	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	-2.06



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPE RATING_HOURS	BASE_CASE_K W	BASE_CASE_K WH	CONSERVATION _CASE_KW	CONSERVATION _CASE_KWH	FIRST_YEAR_DEMAND_S AVINGS	FIRST_YEAR_ENERGY_SA VINGS	PEAK_DEMAND_SA VINGS	EFFECTIVE_USEF UL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE COST
Lighting - Food Retail	8' LED LINEAR AMBIENT FIXTURES	8' LED linear ambient fixture (>= 4500 <9000 Lumens)	Measure mix of T8s and T12s	6074	0.071	431	0.044	267.256	0.027	163.998	0.023	8.0	PSP-Business-Food_Retail-Lighting_Interior_General	145
Lighting - Hospital	4' T8 LED / LED U-Bend Lamp	<= 22W >= 2100 Lumens	4' T8 fluorescent lamp 32W Electronic Ballast	5182	0.029	150	0.018	93.276	0.011	57.002	0.008	10.0	PSP-Business-Hospital-Lighting_Interior_General	3.08
Lighting - Large Hotel (Corridor/Lobby)	8' LED LINEAR AMBIENT FIXTURES	8' LED linear ambient fixture (>= 4500 <9000 Lumens)	Measure mix of T8s and T12s	7884	0.071	560	0.044	346.896	0.027	212.868	0.026	6.0	PSP-Business-Large_Hotel-Lighting_Interior_General	145
Lighting - Large Non-Food Retail	8' LED LINEAR AMBIENT FIXTURES	8' LED linear ambient fixture (>= 4500 <9000 Lumens)	Measure mix of T8s and T12s	4089	0.071	290	0.044	179.916	0.027	110.403	0.016	12.0	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	145
Lighting - Large Office	8' LED LINEAR AMBIENT FIXTURES	8' LED linear ambient fixture (>= 4500 <9000 Lumens)	Measure mix of T8s and T12s	3610	0.071	256	0.044	158.84	0.027	97.47	0.017	14.0	PSP-Business-Large_Office-Lighting_Interior_General	145
Lighting - Nursing Home	8' LED LINEAR AMBIENT FIXTURES	8' LED linear ambient fixture (>= 4500 <9000 Lumens)	Measure mix of T8s and T12s	4,308.00	0.07	306	0	190	0	116	0.018	12.0	PSP-Business-Nursing_Home-Lighting_Interior_General	145
Lighting - Other Commercial Buildings	8' LED LINEAR AMBIENT FIXTURES	8' LED linear ambient fixture (>= 4500 <9000 Lumens)	Measure mix of T8s and T12s	2,857.00	0.07	203	0	126	0	77	0.012	18.0	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	145
Lighting - Other Non-Food Retail	8' LED LINEAR AMBIENT FIXTURES	8' LED linear ambient fixture (>= 4500 <9000 Lumens)	Measure mix of T8s and T12s	4,089.00	0.07	290	0	180	0	110	0.020	12.0	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	145
Lighting - Restaurant	8' LED LINEAR AMBIENT FIXTURES	8' LED linear ambient fixture (>= 4500 <9000 Lumens)	Measure mix of T8s and T12s	5,110.00	0.07	363	0	225	0	138	0.023	10.0	PSP-Business-Restaurant-Lighting_Interior_General	145
Lighting - Schools	8' LED LINEAR AMBIENT FIXTURES	8' LED linear ambient fixture (>= 4500 <9000 Lumens)	Measure mix of T8s and T12s	2,596.00	0.07	184	0	114	0	70	0.004	19.0	PSP-Business-Schools-Lighting_Interior_General	145
Lighting - University Colleges	8' LED LINEAR AMBIENT FIXTURES	8' LED linear ambient fixture (>= 4500 <9000 Lumens)	Measure mix of T8s and T12s	3,255.00	0.07	231	0	143	0	88	0.012	15.0	PSP-Business-University_Colleges-Lighting_Interior_General	145
Lighting - Warehouse Wholesale	8' LED LINEAR AMBIENT FIXTURES	8' LED linear ambient fixture (>= 4500 <9000 Lumens)	Measure mix of T8s and T12s	3,759.00	0.07	267	0	165	0	101	0.020	13.0	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	145
Lighting - Food Retail	8' LED LINEAR AMBIENT FIXTURES	8' LED linear ambient fixture (>= 9000 Lumens)	Measure mix of T8s and T12s	6,074.00	0.12	741	0	565	0	176	0.025	8.0	PSP-Business-Food_Retail-Lighting_Interior_General	167
Lighting - Hospital	4' T8 LED / LED U-Bend Lamp	<=15W >= 1500 Lumens	4' T8 fluorescent lamp 25W Electronic Ballast	5,182.00	0.02	119	0	67	0	52	0.007	10.0	PSP-Business-Hospital-Lighting_Interior_General	-2
Lighting - Large Hotel (Corridor/Lobby)	8' LED LINEAR AMBIENT FIXTURES	8' LED linear ambient fixture (>= 9000 Lumens)	Measure mix of T8s and T12s	7,884.00	2.12	16730	2	16501	0	229	0.028	6.0	PSP-Business-Large_Hotel-Lighting_Interior_General	167
Lighting - Large Non-Food Retail	8' LED LINEAR AMBIENT FIXTURES	8' LED linear ambient fixture (>= 9000 Lumens)	Measure mix of T8s and T12s	4,089.00	3.12	12766	3	12647	0	119	0.018	12.0	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	167



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPE RATING_HOURS	BASE_CASE_K W	BASE_CASE_K WH	CONSERVATION _CASE_KW	CONSERVATION _CASE_KWH	FIRST_YEAR_DEMAND_S AVINGS	FIRST_YEAR_ENERGY_SA VINGS	PEAK_DEMAND_SA VINGS	EFFECTIVE_USEF UL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE COST
Lighting - Large Office	8' LED LINEAR AMBIENT FIXTURES	8' LED linear ambient fixture (>= 9000 Lumens)	Measure mix of T8s and T12s	3,610.00	4.12	14880	4	14776	0	105	0.019	14.0	PSP-Business-Large_Office-Lighting_Interior_General	167
Lighting - Nursing Home	8' LED LINEAR AMBIENT FIXTURES	8' LED linear ambient fixture (>= 9000 Lumens)	Measure mix of T8s and T12s	4,308.00	5.12	22066	5	21941	0	125	0.019	12.0	PSP-Business-Nursing_Home-Lighting_Interior_General	167
Lighting - Other Commercial Buildings	8' LED LINEAR AMBIENT FIXTURES	8' LED linear ambient fixture (>= 9000 Lumens)	Measure mix of T8s and T12s	2,857.00	6.12	17491	6	17408	0	83	0.013	18.0	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	167
Lighting - Other Non-Food Retail	8' LED LINEAR AMBIENT FIXTURES	8' LED linear ambient fixture (>= 9000 Lumens)	Measure mix of T8s and T12s	4,089.00	7.12	29122	7	29003	0	119	0.022	12.0	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	167
Lighting - Restaurant	8' LED LINEAR AMBIENT FIXTURES	8' LED linear ambient fixture (>= 9000 Lumens)	Measure mix of T8s and T12s	5,110.00	8.12	41503	8	41355	0	148	0.024	10.0	PSP-Business-Restaurant-Lighting_Interior_General	167
Lighting - Schools	8' LED LINEAR AMBIENT FIXTURES	8' LED linear ambient fixture (>= 9000 Lumens)	Measure mix of T8s and T12s	2,596.00	9.12	23681	9	23605	0	75	0.004	19.0	PSP-Business-Schools-Lighting_Interior_General	167
Lighting - University Colleges	8' LED LINEAR AMBIENT FIXTURES	8' LED linear ambient fixture (>= 9000 Lumens)	Measure mix of T8s and T12s	3,255.00	10.12	32947	10	32853	0	94	0.012	15.0	PSP-Business-University_Colleges-Lighting_Interior_General	167
Lighting - Warehouse Wholesale	8' LED LINEAR AMBIENT FIXTURES	8' LED linear ambient fixture (>= 9000 Lumens)	Measure mix of T8s and T12s	3,759.00	11.12	41808	11	41699	0	109	0.021	13.0	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	167
Lighting -Food Retail	8' LED LINEAR AMBIENT RETROFIT KIT	>= 4500 < 9000 Lumens	Mixture of One lamp 8' T12 and T8	6,074.00	0.07	431	0	273	0	158	0.022	8.0	PSP-Business-Food_Retail-Lighting_Interior_General	56
Lighting - Hospital	8' LED LINEAR AMBIENT FIXTURES	8' LED linear ambient fixture (>= 4500 <9000 Lumens)	Measure mix of T8s and T12s	5,182.00	0.07	368	0	228	0	140	0.019	10.0	PSP-Business-Hospital-Lighting_Interior_General	145
Lighting -Large Hotel (Corridor/Lobby)	8' LED LINEAR AMBIENT RETROFIT KIT	>= 4500 < 9000 Lumens	Mixture of One lamp 8' T12 and T8	7,884.00	0.07	560	0	355	0	205	0.025	6.0	PSP-Business-Large_Hotel-Lighting_Interior_General	56
Lighting -Large Non-Food Retail	8' LED LINEAR AMBIENT RETROFIT KIT	>= 4500 < 9000 Lumens	Mixture of One lamp 8' T12 and T8	4,089.00	0.07	290	0	184	0	106	0.016	12.0	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	56
Lighting -Large Office	8' LED LINEAR AMBIENT RETROFIT KIT	>= 4500 < 9000 Lumens	Mixture of One lamp 8' T12 and T8	3,610.00	0.07	256	0	162	0	94	0.017	14.0	PSP-Business-Large_Office-Lighting_Interior_General	56
Lighting -Nursing Home	8' LED LINEAR AMBIENT RETROFIT KIT	>= 4500 < 9000 Lumens	Mixture of One lamp 8' T12 and T8	4,308.00	0.07	306	0	194	0	112	0.017	12.0	PSP-Business-Nursing_Home-Lighting_Interior_General	56
Lighting -Other Commercial Buildings	8' LED LINEAR AMBIENT RETROFIT KIT	>= 4500 < 9000 Lumens	Mixture of One lamp 8' T12 and T8	2,857.00	0.07	203	0	129	0	74	0.012	18.0	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	56
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	0.045	184.005	0.026	106.314	0.020	12.0	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	56.48



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPE RATING_HOURS	BASE_CASE_K W	BASE_CASE_K WH	CONSERVATION _CASE_KW	CONSERVATION _CASE_KWH	FIRST_YEAR_DEMAND_S AVINGS	FIRST_YEAR_ENERGY_SA VINGS	PEAK_DEMAND_SA VINGS	EFFECTIVE_USEF UL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE COST
Lighting - Restaurant	8' LED LINEAR AMBIENT RETROFIT KIT	>= 4500 < 9000 Lumens	Mixture of One lamp 8' T12 and T8	5110	0.071	363	0.045	229.95	0.026	132.86	0.022	10.0	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	0.045	116.82	0.026	67.496	0.003	19.0	PSP-Business-Schools-Lighting_Interior_General	56.48
Lighting -University Colleges	8' LED LINEAR AMBIENT RETROFIT KIT	>= 4500 < 9000 Lumens	Mixture of One lamp 8' T12 and T8	3,255.00	0.07	231	0	146	0	85	0.011	15.0	PSP-Business-University_Colleges-Lighting_Interior_General	56
Lighting - Warehouse Wholesale	8' LED LINEAR AMBIENT RETROFIT KIT	>= 4500 < 9000 Lumens	Mixture of One lamp 8' T12 and T8	3,759.00	0.07	267	0	169	0	98	0.019	13.0	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	56
Lighting -Food Retail	8' LED LINEAR AMBIENT RETROFIT KIT	>= 9000 Lumens	Mixture of two lamp 8' T12 and T8	6,074.00	0.12	741	0	510	0	231	0.033	8.0	PSP-Business-Food_Retail-Lighting_Interior_General	20
Lighting - Hospital	8' LED LINEAR AMBIENT FIXTURES	8' LED linear ambient fixture (>= 9000 Lumens)	Measure mix of T8s and T12s	5,182.00	1.12	5814	1	5664	0	150	0.020	10.0	PSP-Business-Hospital-Lighting_Interior_General	167
Lighting -Large Hotel (Corridor/Lobby)	8' LED LINEAR AMBIENT RETROFIT KIT	>= 9000 Lumens	Mixture of two lamp 8' T12 and T8	7884	0.122	962	0.084	662.256	0.038	299.592	0.036	6.0	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 lamp 8' T12 and T8	4089	0.122	499	0.084	343.476	0.038	155.382	0.023	12.0	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 lamp 8' T12 and T8	3610	0.122	440	0.084	303.24	0.038	137.18	0.025	14.0	PSP-Business-Large_Office-Lighting_Interior_General	20.04
Lighting -Nursing Home	8' LED LINEAR AMBIENT RETROFIT KIT	>= 9000 Lumens	Mixture of two lamp 8' T12 and T8	4308	0.122	526	0.084	361.872	0.038	163.704	0.025	12.0	PSP-Business-Nursing_Home-Lighting_Interior_General	20.04
Lighting -Other Commercial Buildings	8' LED LINEAR AMBIENT RETROFIT KIT	>= 9000 Lumens	Mixture of two lamp 8' T12 and T8	2857	0.122	349	0.084	239.988	0.038	108.566	0.017	18.0	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	20.04
Lighting -Other Non Food Retail	8' LED LINEAR AMBIENT RETROFIT KIT	>= 9000 Lumens	Mixture of two lamp 8' T12 and T8	4089	0.122	499	0.084	343.476	0.038	155.382	0.029	12.0	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	20.04
Lighting - Restaurant	8' LED LINEAR AMBIENT RETROFIT KIT	>= 9000 Lumens	Mixture of two lamp 8' T12 and T8	5110	0.122	623	0.084	429.24	0.038	194.18	0.032	10.0	PSP-Business-Restaurant-Lighting_Interior_General	20.04
Lighting -Schools	8' LED LINEAR AMBIENT RETROFIT KIT	>= 9000 Lumens	Mixture of two lamp 8' T12 and T8	2596	0.122	317	0.084	218.064	0.038	98.648	0.005	19.0	PSP-Business-Schools-Lighting_Interior_General	20.04
Lighting -University Colleges	8' LED LINEAR AMBIENT RETROFIT KIT	>= 9000 Lumens	Mixture of two lamp 8' T12 and T8	3255	0.122	397	0.084	273.42	0.038	123.69	0.016	15.0	PSP-Business-University_Colleges-Lighting_Interior_General	20.04
Lighting - Warehouse Wholesale	8' LED LINEAR AMBIENT RETROFIT KIT	>= 9000 Lumens	Mixture of two lamp 8' T12 and T8	3759	0.122	459	0.084	315.756	0.038	142.842	0.028	13.0	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	20.04



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPE RATING_HOURS	BASE_CASE_K W	BASE_CASE_K WH	CONSERVATION _CASE_KW	CONSERVATION _CASE_KWH	FIRST_YEAR_DEMAND_S AVINGS	FIRST_YEAR_ENERGY_SA VINGS	PEAK_DEMAND_SA VINGS	EFFECTIVE_USEF UL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE COST
Lighting - Food Retail	8' T8 LED Lamp	<= 43W >= 3200 Lumens	59W 8' T8 w/ electronic ballast	6074	0.075	456	0.0377	228.9898	0.0373	226.5602	0.032	8.0	PSP-Business-Food_Retail-Lighting_Interior_General	-4.18
Lighting - Hospital	8' T8 LED Lamp	<= 43W >= 3200 Lumens	59W 8' T8 w/ electronic ballast	5,182.00	0.08	389	0	195	0	193	0.026	10.0	PSP-Business-Hospital-Lighting_Interior_General	-4
Lighting - Large Hotel (Corridor/Lobby)	8' T8 LED Lamp	<= 43W >= 3200 Lumens	59W 8' T8 w/ electronic ballast	7884	0.075	591	0.038	297.2	0.037	294.1	0.036	6.0	PSP-Business-Large_Hotel-Lighting_Interior_General	-4
Lighting - Large Non-Food Retail	8' T8 LED Lamp	<= 43W >= 3200 Lumens	59W 8' T8 w/ electronic ballast	4089	0.075	307	0.038	154.2	0.037	152.5	0.023	12.0	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	-4
Lighting - Large Office	8' T8 LED Lamp	<= 43W >= 3200 Lumens	59W 8' T8 w/ electronic ballast	3610	0.075	271	0.038	136.1	0.037	134.7	0.024	14.0	PSP-Business-Large_Office-Lighting_Interior_General	-4
Lighting - Nursing Home	8' T8 LED Lamp	<= 43W >= 3200 Lumens	59W 8' T8 w/ electronic ballast	4308	0.075	323	0.0377	162.4116	0.0373	160.6884	0.024	12.0	PSP-Business-Nursing_Home-Lighting_Interior_General	-4.18
Lighting - Other Commercial Buildings	8' T8 LED Lamp	<= 43W >= 3200 Lumens	59W 8' T8 w/ electronic ballast	2857	0.075	214	0.0377	107.7089	0.0373	106.5661	0.017	18.0	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	-4.18
Lighting - Other Non-Food Retail	8' T8 LED Lamp	<= 43W >= 3200 Lumens	59W 8' T8 w/ electronic ballast	4089	0.075	307	0.0377	154.1553	0.0373	152.5197	0.028	12.0	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	-4.18
Lighting - Restaurant	8' T8 LED Lamp	<= 43W >= 3200 Lumens	59W 8' T8 w/ electronic ballast	5110	0.075	383	0.0377	192.647	0.0373	190.603	0.031	10.0	PSP-Business-Restaurant-Lighting_Interior_General	-4.18
Lighting - Schools	8' T8 LED Lamp	<= 43W >= 3200 Lumens	59W 8' T8 w/ electronic ballast	2596	0.075	195	0.0377	97.8692	0.0373	96.8308	0.005	19.0	PSP-Business-Schools-Lighting_Interior_General	-4.18
Lighting - University Colleges	8' T8 LED Lamp	<= 43W >= 3200 Lumens	59W 8' T8 w/ electronic ballast	3255	0.075	244	0.0377	122.7135	0.0373	121.4115	0.016	15.0	PSP-Business-University_Colleges-Lighting_Interior_General	-4.18
Lighting - Warehouse Wholesale	8' T8 LED Lamp	<= 43W >= 3200 Lumens	59W 8' T8 w/ electronic ballast	3759	0.075	282	0.0377	141.7143	0.0373	140.2107	0.028	13.0	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	-4.18
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	1672	1.226	12.0	EM&V-Commercial-Cooling	1350
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	5201	3.814	12.0	EM&V-Commercial-Cooling	4200
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	9691	7.106	12.0	EM&V-Commercial-Cooling	7825
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	25,759.0	18.887	12.000	EM&V-Commercial-Cooling	20825



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPE RATING_HOURS	BASE_CASE_K W	BASE_CASE_K WH	CONSERVATION _CASE_KW	CONSERVATION CASE_KWH	FIRST_YEAR_DEMAND_S AVINGS	FIRST_YEAR_ENERGY_SA VINGS	PEAK_DEMAND_SA VINGS	EFFECTIVE_USEF UL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE COST
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	kW=kWh *SPDF	20.000	PSP-Industrial- Miscellaneous_Industrial-Other	\$228/Clamping Ton
Building Plug Load	BEVERAGE VENDING MACHINE CONTROLS	Power Sensor and/or Occupancy Control for Refrigerated Vending Machine	Standard beverage vending machines	8760						1,612.9	0.195	5.000	PSP-Business-Commercial- Other_Plug_Loads	243
Commercial Domestic Hot Water	CIRCULATOR PUMPS WITH ELECTRONICALLY COMMUTATED MOTORS (ECMs)	2237 W (3HP)	Circulator pump with PSC motor	2190	14.63	32040	2.630	5,759.7	12.000	26,280.0	3.214	15.000	PSP-Business-Commercial- Domestic_Hot_Water	2160
Residential Domestic Hot Water	CIRCULATOR PUMPS WITH ELECTRONICALLY COMMUTATED MOTORS (ECMs)	2237 W (3HP)	Circulator pump with PSC motor	2190	14.63	32040	2.630	5,759.7	12.000	26,280.0	2.378	15.000	PSP-Consumer-Residential- Domestic_Hot_Water	2160
Space Cooling	CIRCULATOR PUMPS WITH ELECTRONICALLY COMMUTATED MOTORS (ECMs)	2237 W (3HP)	Circulator pump with PSC motor	1191	14.63	17424	2.630	3,132.3	12.000	14,292.0	10.786	15.000	PSP-Business-Commercial- Cooling_Chillers	2160
Space Heating	CIRCULATOR PUMPS WITH ELECTRONICALLY COMMUTATED MOTORS (ECMs)	2237 W (3HP)	Circulator pump with PSC motor	2582	14.63	37775	2.630	6,790.7	12.000	30,984.0	2.117	15.000	PSP-Business-Commercial- Forced_Air_Central_Heating	2160
Commercial Domestic Hot Water	CIRCULATOR PUMPS WITH ELECTRONICALLY COMMUTATED MOTORS (ECMs)	<100 W (<0.134HP)	Circulator pump with PSC motor	2190	0.28	613	0.050	109.5	0.230	503.7	0.062	15.000	PSP-Business-Commercial- Domestic_Hot_Water	1106
Residential Domestic Hot Water	CIRCULATOR PUMPS WITH ELECTRONICALLY COMMUTATED MOTORS (ECMs)	<100 W (<0.134HP)	Circulator pump with PSC motor	2190	0.28	613	0.050	109.5	0.230	503.7	0.046	15.000	PSP-Consumer-Residential- Domestic_Hot_Water	1106
Space Cooling	CIRCULATOR PUMPS WITH ELECTRONICALLY COMMUTATED MOTORS (ECMs)	<100 W (<0.134HP)	Circulator pump with PSC motor	1191	0.28	333	0.050	59.6	0.230	273.9	0.207	15.000	PSP-Business-Commercial- Cooling_Chillers	1106
Space Heating	CIRCULATOR PUMPS WITH ELECTRONICALLY COMMUTATED MOTORS (ECMs)	<100 W (<0.134HP)	Circulator pump with PSC motor	2582	0.28	723	0.050	129.1	0.230	593.9	0.041	15.000	PSP-Business-Commercial- Forced_Air_Central_Heating	1106
Commercial Domestic Hot Water	CIRCULATOR PUMPS WITH ELECTRONICALLY COMMUTATED MOTORS (ECMs)	>=100<500 W (>=0.134<0.67HP)	Circulator pump with PSC motor	2190	1.39	3044	0.250	547.5	1.140	2,496.6	0.305	15.000	PSP-Business-Commercial- Domestic_Hot_Water	1280
Residential Domestic Hot Water	CIRCULATOR PUMPS WITH ELECTRONICALLY COMMUTATED MOTORS (ECMs)	>=100<500 W (>=0.134<0.67HP)	Circulator pump with PSC motor	2190	1.39	3044	0.250	547.5	1.140	2,496.6	0.226	15.000	PSP-Consumer-Residential- Domestic_Hot_Water	1280
Space Cooling	CIRCULATOR PUMPS WITH ELECTRONICALLY COMMUTATED MOTORS (ECMs)	>=100<500 W (>=0.134<0.67HP)	Circulator pump with PSC motor	1191	1.39	1655	0.250	297.8	1.140	1,357.7	1.025	15.000	PSP-Business-Commercial- Cooling_Chillers	1280
Space Heating	CIRCULATOR PUMPS WITH ELECTRONICALLY COMMUTATED MOTORS (ECMs)	>=100<500 W (>=0.134<0.67HP)	Circulator pump with PSC motor	2582	1.39	3589	0.250	645.5	1.140	2,943.5	0.201	15.000	PSP-Business-Commercial- Forced_Air_Central_Heating	1280
Commercial Domestic Hot Water	CIRCULATOR PUMPS WITH ELECTRONICALLY COMMUTATED MOTORS (ECMs)	>=500<750 W (>=0.67<1HP)	Circulator pump with PSC motor	2190	3.89	8519	0.700	1,533.0	3.190	6,986.1	0.854	15.000	PSP-Business-Commercial- Domestic_Hot_Water	1333
Residential Domestic Hot Water	CIRCULATOR PUMPS WITH ELECTRONICALLY COMMUTATED MOTORS (ECMs)	>=500<750 W (>=0.67<1HP)	Circulator pump with PSC motor	2190	3.89	8519	0.700	1,533.0	3.190	6,986.1	0.632	15.000	PSP-Consumer-Residential- Domestic_Hot_Water	1333



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPE RATING_HOURS	BASE_CASE_K W	BASE_CASE_K WH	CONSERVATION _CASE_KW	CONSERVATION CASE_KWH	FIRST_YEAR_DEMAND_S AVINGS	FIRST_YEAR_ENERGY_SA VINGS	PEAK_DEMAND_SA VINGS	EFFECTIVE_USEF UL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE COST
Space Cooling	CIRCULATOR PUMPS WITH ELECTRONICALLY COMMUTATED MOTORS (ECMs)	>=500<750 W (>=0.67<1HP)	Circulator pump with PSC motor	1191	3.89	4633	0.700	833.7	3.190	3,799.3	2.867	15.000	PSP-Business-Commercial-Cooling_Chillers	1333
Space Heating	CIRCULATOR PUMPS WITH ELECTRONICALLY COMMUTATED MOTORS (ECMs)	>=500<750 W (>=0.67<1HP)	Circulator pump with PSC motor	2582	3.89	10044	0.700	1,807.4	3.190	8,236.6	0.563	15.000	PSP-Business-Commercial-Forced_Air_Central_Heating	1333
Commercial Domestic Hot Water	CIRCULATOR PUMPS WITH ELECTRONICALLY COMMUTATED MOTORS (ECMs)	>=750<1490 W (>=1<2HP)	Circulator pump with PSC motor	2190	4.88	10687	0.880	1,927.2	4.000	8,760.0	1.071	15.000	PSP-Business-Commercial-Domestic_Hot_Water	1500
Residential Domestic Hot Water	CIRCULATOR PUMPS WITH ELECTRONICALLY COMMUTATED MOTORS (ECMs)	>=750<1490 W (>=1<2HP)	Circulator pump with PSC motor	2190	4.88	10687	0.880	1,927.2	4.000	8,760.0	0.793	15.000	PSP-Consumer-Residential-Domestic_Hot_Water	1500
Space Cooling	CIRCULATOR PUMPS WITH ELECTRONICALLY COMMUTATED MOTORS (ECMs)	>=750<1490 W (>=1<2HP)	Circulator pump with PSC motor	1191	4.88	5812	0.880	1,048.1	4.000	4,764.0	3.595	15.000	PSP-Business-Commercial-Cooling_Chillers	1500
Space Heating	CIRCULATOR PUMPS WITH ELECTRONICALLY COMMUTATED MOTORS (ECMs)	>=750<1490 W (>=1<2HP)	Circulator pump with PSC motor	2582	4.88	12600	0.880	2,272.2	4.000	10,328.0	0.706	15.000	PSP-Business-Commercial-Forced_Air_Central_Heating	1500
Commercial Domestic Hot Water	CIRCULATOR PUMPS WITH ELECTRONICALLY COMMUTATED MOTORS (ECMs)	>=1490<2237 W (>=2<3HP)	Circulator pump with PSC motor	2190	9.75	21353	1.760	3,854.4	7.990	17,498.1	2.140	15.000	PSP-Business-Commercial-Domestic_Hot_Water	1580
Residential Domestic Hot Water	CIRCULATOR PUMPS WITH ELECTRONICALLY COMMUTATED MOTORS (ECMs)	>=1490<2237 W (>=2<3HP)	Circulator pump with PSC motor	2190	9.75	21353	1.760	3,854.4	7.990	17,498.1	1.584	15.000	PSP-Consumer-Residential-Domestic_Hot_Water	1580
Space Cooling	CIRCULATOR PUMPS WITH ELECTRONICALLY COMMUTATED MOTORS (ECMs)	>=1490<2237 W (>=2<3HP)	Circulator pump with PSC motor	1191	9.75	11612	1.760	2,096.2	7.990	9,516.1	7.182	15.000	PSP-Business-Commercial-Cooling_Chillers	1580
Space Heating	CIRCULATOR PUMPS WITH ELECTRONICALLY COMMUTATED MOTORS (ECMs)	>=1490<2237 W (>=2<3HP)	Circulator pump with PSC motor	2582	9.75	25175	1.760	4,544.3	7.990	20,630.2	1.410	15.000	PSP-Business-Commercial-Forced_Air_Central_Heating	1580
Compressed Air	COMPRESSED AIR LOW PRESSURE DROP FILTER	0 to <30 HP	Standard coalescing filter	5700					0.000	1,771.8	0.202	7.000	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	591
Compressed Air	COMPRESSED AIR LOW PRESSURE DROP FILTER	>=30 to <50 HP	Standard coalescing filter	5700					0.000	3,543.5	0.405	7.000	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	591
Compressed Air	COMPRESSED AIR LOW PRESSURE DROP FILTER	>=50 to <70 HP	Standard coalescing filter	5700					0.000	5,315.3	0.607	7.000	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	591
Compressed Air	COMPRESSED AIR LOW PRESSURE DROP FILTER	>=70 to <90 HP	Standard coalescing filter	5700					0.000	7,087.0	0.809	7.000	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	591
Compressed Air	COMPRESSED AIR LOW PRESSURE DROP FILTER	>=90 to <110 HP	Standard coalescing filter	5700					0.000	8,858.8	1.012	7.000	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	591
Compressed Air	COMPRESSED AIR VD	Variable Displacement Compressor >= 10 HP	Fixed Speed Compressor >= 10 HP	5705					1.482	9,493.8	1.084	13.000	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	3530.8



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPE RATING_HOURS	BASE_CASE_K W	BASE_CASE_K WH	CONSERVATION _CASE_KW	CONSERVATION _CASE_KWH	FIRST_YEAR_DEMAND_S AVINGS	FIRST_YEAR_ENERGY_SA VINGS	PEAK_DEMAND_SA VINGS	EFFECTIVE_USEF UL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE COST
Compressed Air	COMPRESSED AIR VD	Variable Displacement Compressor >= 15 HP	Fixed Speed Compressor >= 15 HP	5705					2.223	14,240.7	1.627	13.000	PSP-Industrial- Miscellaneous_Industrial- Compressed_Air	4356.3
Compressed Air	COMPRESSED AIR VD	Variable Displacement Compressor >= 20 HP	Fixed Speed Compressor >= 20 HP	5705					2.964	18,987.7	2.169	13.000	PSP-Industrial- Miscellaneous_Industrial- Compressed_Air	5181.8
Compressed Air	COMPRESSED AIR VD	Variable Displacement Compressor >= 25 HP	Fixed Speed Compressor >= 25 HP	5705					3.705	23,734.6	2.711	13.000	PSP-Industrial- Miscellaneous_Industrial- Compressed_Air	6007.3
Compressed Air	COMPRESSED AIR VD	Variable Displacement Compressor >= 30 HP	Fixed Speed Compressor >= 30 HP	5705					4.446	28,481.5	3.253	13.000	PSP-Industrial- Miscellaneous_Industrial- Compressed_Air	6832.8
Compressed Air	COMPRESSED AIR VD	Variable Displacement Compressor >= 40 HP	Fixed Speed Compressor >= 40 HP	5705					5.927	37,975.3	4.337	13.000	PSP-Industrial- Miscellaneous_Industrial- Compressed_Air	8483.8
Compressed Air	COMPRESSED AIR VD	Variable Displacement Compressor >= 50 HP	Fixed Speed Compressor >= 50 HP	5705					9.292	59,528.9	6.799	13.000	PSP-Industrial- Miscellaneous_Industrial- Compressed_Air	10134.8
Compressed Air	COMPRESSED AIR VD	Variable Displacement Compressor >= 60 HP	Fixed Speed Compressor >= 60 HP	5705					11.150	71,434.7	8.159	13.000	PSP-Industrial- Miscellaneous_Industrial- Compressed_Air	11785.8
Compressed Air	COMPRESSED AIR VD	Variable Displacement Compressor >= 75 HP	Fixed Speed Compressor >= 75 HP	5705					13.937	89,293.3	10.199	13.000	PSP-Industrial- Miscellaneous_Industrial- Compressed_Air	14262.3
Compressed Air	COMPRESSED AIR VD	Variable Displacement Compressor >= 100 HP	Fixed Speed Compressor >= 100 HP	5705					18.583	119,057.8	13.598	13.000	PSP-Industrial- Miscellaneous_Industrial- Compressed_Air	18389.8
Compressed Air	COMPRESSED AIR VD	Variable Displacement Compressor >= 125 HP	Fixed Speed Compressor >= 125 HP	5705					23.229	148,822.2	16.998	13.000	PSP-Industrial- Miscellaneous_Industrial- Compressed_Air	22517.3
Compressed Air	COMPRESSED AIR VD	Variable Displacement Compressor >= 150 HP	Fixed Speed Compressor >= 150 HP	5705					27.875	178,586.6	20.397	13.000	PSP-Industrial- Miscellaneous_Industrial- Compressed_Air	26644.8
Compressed Air	COMPRESSED AIR VD	Variable Displacement Compressor >= 200 HP	Fixed Speed Compressor >= 200 HP	5705					37.166	238,115.5	27.196	13.000	PSP-Industrial- Miscellaneous_Industrial- Compressed_Air	34899.8
Compressed Air	COMPRESSED AIR VSD	Variable Speed Drive Compressor >= 10 HP	Fixed Speed Compressor >= 10 HP	5705					1.185	7,595.1	0.867	13.000	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	11,392.6	1.301	13.000	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	15,190.1	1.735	13.000	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	18,987.7	2.169	13.000	PSP-Industrial- Miscellaneous_Industrial- Compressed_Air	4805.84



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPE RATING_HOURS	BASE_CASE_K W	BASE_CASE_K WH	CONSERVATION _CASE_KW	CONSERVATION _CASE_KWH	FIRST_YEAR_DEMAND_S AVINGS	FIRST_YEAR_ENERGY_SA VINGS	PEAK_DEMAND_SA VINGS	EFFECTIVE_USEF UL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE COST
Compressed Air	COMPRESSED AIR VSD	Variable Speed Drive Compressor >= 30 HP	Fixed Speed Compressor >= 30 HP	5705					3.556	22,785.2	2.602	13.000	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	30,380.3	3.470	13.000	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	47,623.1	5.439	13.000	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	57,147.7	6.527	13.000	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	71,434.7	8.159	13.000	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	95,246.2	10.878	13.000	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	119,057.8	13.598	13.000	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	142,869.3	16.318	13.000	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	190,492.4	21.757	13.000	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	27919.84
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	1.75	12075	1.400	9,660.0	0.350	2,145.0	0.276	15.000	PSP-Business-Commercial-Creep_Heat_Controller	666
Compressed Air	CYCLING OR THERMAL MASS REFRIGERATED DRYER	0 to <200 CFM	Non-Cycling Refrigerated Dryer	3920					0.000	994.8	0.114	15.000	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	1110
Compressed Air	CYCLING OR THERMAL MASS REFRIGERATED DRYER	>=200 to <400 CFM	Non-Cycling Refrigerated Dryer	3920					0.000	2,487.1	0.284	15.000	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	2775
Compressed Air	CYCLING OR THERMAL MASS REFRIGERATED DRYER	>=400 to <750 CFM	Non-Cycling Refrigerated Dryer	3920					0.000	4,974.2	0.568	15.000	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	5550
Agribusiness	DAIRY ENERGY STAR WATER HEATER	Energy Star Electric Hot Water Tank >= 60 gal	Standard electric hot water heater	8760	1.72219	15086	0.775	6,788.9	0.947	8,297.5	0.947	15.000	PSP-Industrial-Agriculture-Other	853
Agribusiness	DAIRY PLATE COOLER	Plate cooler to pre-cool milk prior to refrigeration	No pre-cooling						2.570	7,503.0	0.000	15.000	PSP-Industrial-Agriculture-Process_Cooling	3098
Demand Control Ventilation	DEMAND CONTROL KITCHEN VENTILATION	5,001 - 10,000 CFM exhaust fan capacity	Constant volume exhaust fan	5840		27390		11,508.8		15,880.8	2.258	15.000	PSP-Business-Commercial-Cooking	11915



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
Demand Control Ventilation	DEMAND CONTROL KITCHEN VENTILATION	10,001 - 15,000 CFM exhaust fan capacity	Constant volume exhaust fan	5840		48706		20,465.6		28,240.0	4.014	15.000	PSP-Business-Commercial-Cooking	19859
Demand Control Ventilation	DEMAND CONTROL KITCHEN VENTILATION	Up to 5000 CFM exhaust fan capacity	Constant volume exhaust fan	5840		8234		3,460.0		4,774.4	0.679	15.000	PSP-Business-Commercial-Cooking	4766
Demand Control Ventilation	DEMAND CONTROL VENTILATION - ENCLOSED PARKING GARAGES	>5 to <= 10 HP	Garage ventilation fans running continuously	8760					0.000	16,588.7	1.894	10.000	PSP-Consumer-Residential-Ventilation_And_Circulation	2250
Demand Control Ventilation	DEMAND CONTROL VENTILATION - ENCLOSED PARKING GARAGES	>10 to <= 25 HP	Garage ventilation fans running continuously	8760					0.000	41,471.9	4.734	10.000	PSP-Consumer-Residential-Ventilation_And_Circulation	4500
Demand Control Ventilation	DEMAND CONTROL VENTILATION - ENCLOSED PARKING GARAGES	>25 to <= 50 HP	Garage ventilation fans running continuously	8760					0.000	82,943.7	9.468	10.000	PSP-Consumer-Residential-Ventilation_And_Circulation	4500
Demand Control Ventilation	DEMAND CONTROL VENTILATION - ENCLOSED PARKING GARAGES	>50 to <= 75 HP	Garage ventilation fans running continuously	8760					0.000	124,415.6	14.203	10.000	PSP-Consumer-Residential-Ventilation_And_Circulation	9000
Demand Control Ventilation	DEMAND CONTROL VENTILATION - ENCLOSED PARKING GARAGES	>75 to <= 100 HP	Garage ventilation fans running continuously	8760					0.000	165,887.4	18.937	10.000	PSP-Consumer-Residential-Ventilation_And_Circulation	9000
Demand Control Ventilation	DEMAND CONTROL VENTILATION - ENCLOSED PARKING GARAGES	>=2 to <= 5 HP	Garage ventilation fans running continuously	0	0	0	0.000	0.0	0.000	8,294.4	0.947	10.000	PSP-Consumer-Residential-Ventilation_And_Circulation	2250
Demand Control Ventilation	DEMAND CONTROL VENTILATION - INTERIOR CONDITIONED SPACES	50,000 to <= 100,000 SQ.FT.	Constant volume Ventilation System	8760					0.000	18,675.0	2.132	10.000	PSP-Consumer-Residential-Ventilation_And_Circulation	7500
Demand Control Ventilation	DEMAND CONTROL VENTILATION - INTERIOR CONDITIONED SPACES	>100,000 & <250,000 SQ.FT.	Constant volume Ventilation System	8760					0.000	43,575.0	4.974	10.000	PSP-Consumer-Residential-Ventilation_And_Circulation	17500
Demand Control Ventilation	DEMAND CONTROL VENTILATION - INTERIOR CONDITIONED SPACES	>250,000 & <500,000 SQ.FT.	Constant volume Ventilation System	8760					0.000	93,375.0	10.659	10.000	PSP-Consumer-Residential-Ventilation_And_Circulation	37500
Demand Control Ventilation	DEMAND CONTROL VENTILATION - INTERIOR CONDITIONED SPACES	>500,000 & <750,000 SQ.FT.	Constant volume Ventilation System	8760					0.000	155,625.0	17.765	10.000	PSP-Consumer-Residential-Ventilation_And_Circulation	62500
Demand Control Ventilation	DEMAND CONTROL VENTILATION - INTERIOR CONDITIONED SPACES	>750,000 to <1,000,000 SQ.FT.	Constant volume Ventilation System	8760					0.000	217,875.0	24.872	10.000	PSP-Consumer-Residential-Ventilation_And_Circulation	87500
Agribusiness	DOUBLE CREEP HEAT PAD	Up to 200W maximum	2 x 175W Heat Lamps	6900	0.35	2415	0.169	1,166.1	0.181	1,248.9	0.000	10.000	EM&V-Commercial-Creep_Heat_Pad	95
Agribusiness	DUAL AND NATURAL EXHAUST VENTILATION SYSTEM	Chicken broilers	Fans: 340W/1000 birds	3000	0.34	1020	0.152	203.8	0.188	816.2	0.118	15.000	EM&V-Commercial-Dual_&_Natural_Ventilation_Fans_All_year	27000
Agribusiness	DUAL AND NATURAL EXHAUST VENTILATION SYSTEM	Dairy-tie stall, outside in summer	50% in barn; 50% on pasture	5043	0.035	177	0.016	35.3	0.019	141.2	0.000	15.000	EM&V-Commercial-Dual_&_Natural_Ventilation_Fans_Winter_Only	12000

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	Dairy-tie stall, year round housing	Fans: 35W/cow	6548	0.035	229	0.016	45.8	0.019	183.4	0.000	15.000	EM&V-Commercial-Dual_&_Natural_Ventilation_Fans_Winter_Only	12000
Agribusiness	DUAL AND NATURAL EXHAUST VENTILATION SYSTEM	Egg layers	Fans: 400W/1000 birds	5475	0.4	2190	0.179	437.6	0.221	1,752.4	0.252	15.000	EM&V-Commercial-Dual_&_Natural_Ventilation_Fans_All_year	18000
Agribusiness	DUAL AND NATURAL EXHAUST VENTILATION SYSTEM	Greenhouse - Flowers	Fans: 1260W/1000 sq. meters	8760	1.26	11038	0.563	2,205.4	0.697	8,832.2	1.272	15.000	EM&V-Commercial-Dual_&_Natural_Ventilation_Fans_All_year	10250
Agribusiness	DUAL AND NATURAL EXHAUST VENTILATION SYSTEM	Swine - breeding & gestation	Fans: 17W/sow	5864	0.015	100	0.008	19.9	0.007	79.8	0.011	15.000	EM&V-Commercial-Dual_&_Natural_Ventilation_Fans_All_year	5500
Agribusiness	DUAL AND NATURAL EXHAUST VENTILATION SYSTEM	Swine - growing & finishing	Fans: 5W/market-weight hog	8760	0.005	44	0.002	8.8	0.003	35.0	0.005	15.000	EM&V-Commercial-Dual_&_Natural_Ventilation_Fans_All_year	15000
Agribusiness	DUAL AND NATURAL EXHAUST VENTILATION SYSTEM	Turkeys	Fans: 1130W/1000 birds	6971	1.13	7877	0.505	1,573.8	0.625	6,302.9	0.908	15.000	EM&V-Commercial-Dual_&_Natural_Ventilation_Fans_All_year	15000
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	652.9	0.078	15.000	PSP-Business-Commercial-Refrigeration	239
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	542.2	0.064	15.000	PSP-Business-Commercial-Refrigeration	239
Space Cooling	ECM MOTORS FOR HVAC APPLICATION (FAN MOTOR REPLACEMENT)	Motor < 1 hp	VAV Box with PSC motors	3000					0.062	1,205.0	0.851	15.000	PSP-Business-Other_Commercial_Buildings-Cooling_DX	162
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	0.353	15.000	PSP-Business-Other_Commercial_Buildings-Cooling_DX	160
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	0.247	15.000	PSP-Business-Other_Commercial_Buildings-Cooling_DX	550
Multi-Residential In Suite Appliance	ENERGY STAR® REFRIGERATOR	ENERGY STAR® REFRIGERATOR	Standard Refrigerator	3000					0.210	350.0	0.044	17 ?	PSP-Business-Restaurant-Refrigeration	54
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	632.4	0.000	3.000	EM&V-Residential-Car_Block_Heater_South_Ontario	13.76
Compressed Air	ENGINEERED NOZZLE	1/4" Engineered Nozzle	Crimped Pipe or locally made nozzle	3920					0.440	1,724.8	0.197	15.000	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	72
Compressed Air	ENGINEERED NOZZLE	1/8" Engineered Nozzle	Crimped Pipe or locally made nozzle	3920					0.110	431.2	0.049	15.000	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	53
Compressed Air	ENGINEERED NOZZLE	1/16" Engineered Nozzle	Crimped Pipe or locally made nozzle	3920					0.028	109.4	0.012	15.000	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	18



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPE RATING_HOURS	BASE_CASE_K W	BASE_CASE_K WH	CONSERVATION _CASE_KW	CONSERVATION CASE_KWH	FIRST_YEAR_DEMAND_S AVINGS	FIRST_YEAR_ENERGY_SA VINGS	PEAK_DEMAND_SA VINGS	EFFECTIVE_USEF UL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE COST
Compressed Air	ENGINEERED NOZZLE	3/8" Engineered Nozzle	Crimped Pipe or locally made nozzle	3920					0.990	3,880.8	0.443	15.000	PSP-Industrial- Miscellaneous_Industrial- Compressed_Air	143
Agribusiness	HIGH EFFICIENCY VENTILATION EXHAUST FANS	>= 18 to < 24" Fan	Minimum fan grouping in category from BESS Laboratory ratings	4313	0.3913	1688	0.290	1,252.2	0.101	435.5	0.128	15.000	EM&V-Commercial- HE_Ventilation_Exhaust_Fans	202
Agribusiness	HIGH EFFICIENCY VENTILATION EXHAUST FANS	>= 24" to < 36" Fans	Minimum fan grouping in category from BESS Laboratory ratings	4313	0.56018	2416	0.410	1,768.6	0.150	647.4	0.190	15.000	EM&V-Commercial- HE_Ventilation_Exhaust_Fans	202
Agribusiness	HIGH EFFICIENCY VENTILATION EXHAUST FANS	>= 36" to < 48" Fans	Minimum fan grouping in category from BESS Laboratory ratings	4313	0.72247	3116	0.564	2,434.4	0.158	681.6	0.200	15.000	EM&V-Commercial- HE_Ventilation_Exhaust_Fans	202
Agribusiness	HIGH EFFICIENCY VENTILATION EXHAUST FANS	>= 48" Fans	Minimum fan grouping in category from BESS Laboratory ratings	4313	1.27112	5482	0.997	4,298.9	0.274	1,183.4	0.347	15.000	EM&V-Commercial- HE_Ventilation_Exhaust_Fans	202
Agribusiness	HIGH TEMPERATURE CUTOUT THERMOSTAT	Operating range 24 to 40 Celsius	Poorly Controlled Creep Heat Lamps	6900		10868		9,872.1		995.4	0.816	10.000	PSP-Business-Commercial- HT_Cutout_Thermostat	124
Agribusiness	HIGH VOLUME LOW SPEED FAN	>= 10 ft to <11 ft, 1 HP	2 units Box fan, 1 HP	2124	2.506	5323	0.424	900.6	2.082	4,422.2	1.510	15.000	EM&V-Commercial- HVLS_No_Summer_Operation	1293
Agribusiness	HIGH VOLUME LOW SPEED FAN	>= 11 ft to <19 ft, 1.5 HP	4 units Box fan, 1 HP	2124	3.898	8279	0.659	1,399.7	3.239	6,879.6	2.350	15.000	EM&V-Commercial- HVLS_No_Summer_Operation	2962
Agribusiness	HIGH VOLUME LOW SPEED FAN	>= 19 ft to <=24 ft, 2 HP	4 units Box fan, 1 HP	2124	5.555	11799	0.940	1,996.6	4.615	9,802.3	3.348	15.000	EM&V-Commercial- HVLS_No_Summer_Operation	5558
Lighting - Greenhouses	HORTICULTURAL INTER-LIGHTING LED GROW LIGHT FIXTURE	LED grow lights installed within the canopy illuminating a vertical growing surface.	Assumed 10 fluorescent T8 provides the equivalent brightness at the same distance away from the vertical growing surface as one EE fixture	5327	0.58626	3123	0.096	510.6	0.490	2,612.3	0.009	9.000	CUSTOM-Business- Other_Commercial_Buildings- CUSTOM-Industrial-Agriculture- Horticultural_Lighting_Veg	-360.93
Space Cooling	HOTEL OCCUPANCY CONTROLS (HVAC + LIGHTING)	Electrically heated facility	No controls installed							310.0	0.219	10.000	PSP-Business- Other_Commercial_Buildings- Cooling_DX	351
Space Cooling	HOTEL OCCUPANCY CONTROLS (HVAC + LIGHTING)	Gas heated facility	No controls installed							122.0	0.086	10.000	PSP-Business- Other_Commercial_Buildings- Cooling_DX	351
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	20.000	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	20.000	EM&V-Commercial-Cooling	\$150/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	20.000	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	20.000	EM&V-Commercial-Cooling	\$400/Ton



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPE RATING_HOURS	BASE_CASE_K W	BASE_CASE_K WH	CONSERVATION _CASE_KW	CONSERVATION _CASE_KWH	FIRST_YEAR_DEMAND_S AVINGS	FIRST_YEAR_ENERGY_SA VINGS	PEAK_DEMAND_SA VINGS	EFFECTIVE_USEF UL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE COST
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	20.000	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	20.0	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	20.0	EM&V-Commercial-Cooling	\$400/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	20.0	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	20.0	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	20.0	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	20.0	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	20.0	EM&V-Commercial-Cooling	\$400/Ton
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*0.046 kW/Clamping Ton	kWh=Clamping Tons*198 kWh/Clamping Ton	kW=kWh *SPDF	20.0	PSP-Industrial- Miscellaneous_Industrial-Other	\$98/Clamping Ton
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	1155.000	0.323	11 ?	EM&V-Commercial- Space_Cooling_&_Heating	169
Lighting - Food Retail	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	1' x 4' LED troffer / 4' LED linear ambient fixture (>= 1500 Lumens)	Two-lamp Std. T8 fixtures (4' 32W)	6074	0.067	407	0.039	234.456	0.028	172.502	0.025	8.0	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)	Two-lamp Std. T8 fixtures (4' 32W)	5182	0.067	347	0.039	200.025	0.028	147.169	0.020	10.0	PSP-Business-Hospital- Lighting_Interior_General	114.37
Lighting - Large Hotel (Corridor/Lobby)	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	1' x 4' LED troffer / 4' LED linear ambient fixture (>= 1500 Lumens)	Two-lamp Std. T8 fixtures (4' 32W)	7884	0.067	528	0.039	304.322	0.028	223.906	0.027	6.0	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)	Two-lamp Std. T8 fixtures (4' 32W)	4089	0.067	274	0.039	157.835	0.028	116.128	0.017	12.0	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)	Two-lamp Std. T8 fixtures (4' 32W)	3610	0.067	242	0.039	139.346	0.028	102.524	0.018	14.0	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)	Two-lamp Std. T8 fixtures (4' 32W)	4308	0.067	289	0.039	166.289	0.028	122.347	0.019	12.0	PSP-Business-Nursing_Home- Lighting_Interior_General	114.37



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPE RATING_HOURS	BASE_CASE_K W	BASE_CASE_K WH	CONSERVATION _CASE_KW	CONSERVATION CASE_KWH	FIRST_YEAR_DEMAND_S AVINGS	FIRST_YEAR_ENERGY_SA VINGS	PEAK_DEMAND_SA VINGS	EFFECTIVE_USEF UL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE COST
Lighting - Other Commercial Buildings	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	1' x 4' LED troffer / 4' LED linear ambient fixture (>= 1500 Lumens)	Two-lamp Std. T8 fixtures (4' 32W)	2857	0.067	191	0.039	110.280	0.028	81.139	0.013	18.0	PSP-Business-Other_Commercial_Buildings-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)	Two-lamp Std. T8 fixtures (4' 32W)	4089	0.067	274	0.039	157.835	0.028	116.128	0.021	12.0	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)	Two-lamp Std. T8 fixtures (4' 32W)	5110	0.067	342	0.039	197.246	0.028	145.124	0.024	10.0	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)	Two-lamp Std. T8 fixtures (4' 32W)	2596	0.067	174	0.039	100.206	0.028	73.726	0.004	19.0	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)	Two-lamp Std. T8 fixtures (4' 32W)	3255	0.067	218	0.039	125.6	0.028	92.4	0.012	15.0	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)	Two-lamp Std. T8 fixtures (4' 32W)	3759	0.067	252	0.039	145.097	0.0284	106.8	0.021	13.0	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	114
Lighting - Food Retail	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	2' x 2' LED troffer / 2' LED linear ambient fixture (>= 2000 Lumens)	U-bend 32W - 2 lamp T8	6074	0.066	401	0.039	236.886	0.0270	164.0	0.023	8.0	PSP-Business-Food_Retail-Lighting_Interior_General	62
Lighting - Hospital	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	2' x 2' LED troffer / 2' LED linear ambient fixture (>= 2000 Lumens)	U-bend 32W - 2 lamp T8	5182	0.066	342	0.039	202.098	0.0270	139.9	0.019	10.0	PSP-Business-Hospital-Lighting_Interior_General	62
Lighting - Large Hotel (Corridor/Lobby)	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	2' x 2' LED troffer / 2' LED linear ambient fixture (>= 2000 Lumens)	U-bend 32W - 2 lamp T8	7884	0.066	520	0.039	307.5	0.027	212.9	0.026	6.0	PSP-Business-Large_Hotel-Lighting_Interior_General	62
Lighting - Large Non-Food Retail	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	2' x 2' LED troffer / 2' LED linear ambient fixture (>= 2000 Lumens)	U-bend 32W - 2 lamp T8	4089	0.066	270	0.039	159.5	0.027	110.4	0.016	12.0	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	62
Lighting - Large Office	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	2' x 2' LED troffer / 2' LED linear ambient fixture (>= 2000 Lumens)	U-bend 32W - 2 lamp T8	3610	0.066	238	0.039	140.8	0.027	97.5	0.017	14.0	PSP-Business-Large_Office-Lighting_Interior_General	62
Lighting - Nursing Home	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	2' x 2' LED troffer / 2' LED linear ambient fixture (>= 2000 Lumens)	U-bend 32W - 2 lamp T8	4308	0.066	284	0.039	168.0	0.027	116.3	0.018	12.0	PSP-Business-Nursing_Home-Lighting_Interior_General	62
Lighting - Other Commercial Buildings	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	2' x 2' LED troffer / 2' LED linear ambient fixture (>= 2000 Lumens)	U-bend 32W - 2 lamp T8	2857	0.066	189	0.039	111.4	0.027	77.1	0.012	18.0	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	62
Lighting - Other Non-Food Retail	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	2' x 2' LED troffer / 2' LED linear ambient fixture (>= 2000 Lumens)	U-bend 32W - 2 lamp T8	4089	0.066	270	0.039	159.5	0.027	110.4	0.020	12.0	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	62
Lighting - Restaurant	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	2' x 2' LED troffer / 2' LED linear ambient fixture (>= 2000 Lumens)	U-bend 32W - 2 lamp T8	5110	0.066	337	0.039	199.3	0.027	138.0	0.023	10.0	PSP-Business-Restaurant-Lighting_Interior_General	62
Lighting - Schools	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	2' x 2' LED troffer / 2' LED linear ambient fixture (>= 2000 Lumens)	U-bend 32W - 2 lamp T8	2,596.00	0.066	171	0.039	101.2	0.027	70.1	0.004	19.0	PSP-Business-Schools-Lighting_Interior_General	62



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPE RATING_HOURS	BASE_CASE_K W	BASE_CASE_K WH	CONSERVATION _CASE_KW	CONSERVATION _CASE_KWH	FIRST_YEAR_DEMAND_S AVINGS	FIRST_YEAR_ENERGY_SA VINGS	PEAK_DEMAND_SA VINGS	EFFECTIVE_USEF UL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE COST
Lighting - University Colleges	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	2' x 2' LED troffer / 2' LED linear ambient fixture (>= 2000 Lumens)	U-bend 32W - 2 lamp T8	3,255.00	0.066	215	0.039	126.9	0.027	87.9	0.012	15.0	PSP-Business-University_Colleges-Lighting_Interior_General	62
Lighting - Warehouse Wholesale	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	2' x 2' LED troffer / 2' LED linear ambient fixture (>= 2000 Lumens)	U-bend 32W - 2 lamp T8	3,759.00	0.066	248	0.039	146.6	0.027	101.5	0.020	13.0	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	62
Lighting - Food Retail	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	2' x 4' LED troffer / 4' LED linear ambient fixture (>= 3000 Lumens)	Three-lamp Std. T8 fixtures (4' 32W)	6,074.00	0.096	583	0.055	334.1	0.041	249.0	0.035	8.0	PSP-Business-Food_Retail-Lighting_Interior_General	117
Lighting - Hospital	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	2' x 4' LED troffer / 4' LED linear ambient fixture (>= 3000 Lumens)	Three-lamp Std. T8 fixtures (4' 32W)	5,182.00	0.096	497	0.055	285.0	0.041	212.5	0.028	10.0	PSP-Business-Hospital-Lighting_Interior_General	117
Lighting - Large Hotel (Corridor/Lobby)	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	2' x 4' LED troffer / 4' LED linear ambient fixture (>= 3000 Lumens)	Three-lamp Std. T8 fixtures (4' 32W)	7,884.00	0.096	757	0.055	433.6	0.041	323.2	0.039	6.0	PSP-Business-Large_Hotel-Lighting_Interior_General	117
Lighting - Large Non-Food Retail	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	2' x 4' LED troffer / 4' LED linear ambient fixture (>= 3000 Lumens)	Three-lamp Std. T8 fixtures (4' 32W)	4,089.00	0.096	393	0.055	224.9	0.041	167.6	0.025	12.0	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	117
Lighting - Large Office	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	2' x 4' LED troffer / 4' LED linear ambient fixture (>= 3000 Lumens)	Three-lamp Std. T8 fixtures (4' 32W)	3,610.00	0.096	347	0.055	198.6	0.041	148.0	0.026	14.0	PSP-Business-Large_Office-Lighting_Interior_General	117
Lighting - Nursing Home	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	2' x 4' LED troffer / 4' LED linear ambient fixture (>= 3000 Lumens)	Three-lamp Std. T8 fixtures (4' 32W)	4308	0.096	414	0.055	236.9	0.041	176.6	0.027	12.0	PSP-Business-Nursing_Home-Lighting_Interior_General	117
Lighting - Other Commercial Buildings	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	2' x 4' LED troffer / 4' LED linear ambient fixture (>= 3000 Lumens)	Three-lamp Std. T8 fixtures (4' 32W)	2857	0.096	274	0.0550	157.1	0.041	117.1	0.018	18.0	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	117
Lighting - Other Non-Food Retail	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	2' x 4' LED troffer / 4' LED linear ambient fixture (>= 3000 Lumens)	Three-lamp Std. T8 fixtures (4' 32W)	4089	0.096	393	0.055	224.9	0.041	167.6	0.031	12.0	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	117
Lighting - Restaurant	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	2' x 4' LED troffer / 4' LED linear ambient fixture (>= 3000 Lumens)	Three-lamp Std. T8 fixtures (4' 32W)	5110	0.096	491	0.055	281.1	0.041	209.5	0.034	10.0	PSP-Business-Restaurant-Lighting_Interior_General	117
Lighting - Schools	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	2' x 4' LED troffer / 4' LED linear ambient fixture (>= 3000 Lumens)	Three-lamp Std. T8 fixtures (4' 32W)	2596	0.096	249	0.0550	142.8	0.041	106.4	0.005	19.0	PSP-Business-Schools-Lighting_Interior_General	117
Lighting - University Colleges	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	2' x 4' LED troffer / 4' LED linear ambient fixture (>= 3000 Lumens)	Three-lamp Std. T8 fixtures (4' 32W)	3255	0.096	312	0.0550	179.0	0.041	133.5	0.018	15.0	PSP-Business-University_Colleges-Lighting_Interior_General	117
Lighting - Warehouse Wholesale	INTEGRAL LED TROFFER & LED LINEAR AMBIENT FIXTURE	2' x 4' LED troffer / 4' LED linear ambient fixture (>= 3000 Lumens)	Three-lamp Std. T8 fixtures (4' 32W)	3759	0.096	361	0.0550	206.7	0.041	154.1	0.030	13.0	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	117
Lighting - Food Retail	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	1' x 4' LED troffer / 4' LED linear ambient retrofit kit (>= 1500 Lumens)	Two-lamp Std. T8 fixtures (4' 32W)	6074	0.067	407	0.0310	188.3	0.036	218.7	0.031	8.0	PSP-Business-Food_Retail-Lighting_Interior_General	84
Lighting - Hospital	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	1' x 4' LED troffer / 4' LED linear ambient retrofit kit (>= 1500 Lumens)	Two-lamp Std. T8 fixtures (4' 32W)	5182	0.067	347	0.0310	160.6	0.036	186.6	0.025	10.0	PSP-Business-Hospital-Lighting_Interior_General	84



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPE RATING_HOURS	BASE_CASE_K W	BASE_CASE_K WH	CONSERVATION _CASE_KW	CONSERVATION _CASE_KWH	FIRST_YEAR_DEMAND_S AVINGS	FIRST_YEAR_ENERGY_SA VINGS	PEAK_DEMAND_SA VINGS	EFFECTIVE_USEF UL_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)	Two-lamp Std. T8 fixtures (4' 32W)	7884	0.067	528	0.031	244.404	0.036	283.8	0.034	6.0	PSP-Business-Large_Hotel-Lighting_Interior_General	84
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)	Two-lamp Std. T8 fixtures (4' 32W)	4089	0.067	274	0.031	126.759	0.036	147.2	0.022	12.0	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	84
Lighting - Large Office	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	1' x 4' LED troffer / 4' LED linear ambient retrofit kit (>= 1500 Lumens)	Two-lamp Std. T8 fixtures (4' 32W)	3610	0.067	242	0.031	111.910	0.036	130.0	0.023	14.0	PSP-Business-Large_Office-Lighting_Interior_General	84
Lighting - Nursing Home	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	1' x 4' LED troffer / 4' LED linear ambient retrofit kit (>= 1500 Lumens)	Two-lamp Std. T8 fixtures (4' 32W)	4308	0.067	289	0.031	133.548	0.036	155.1	0.023	12.0	PSP-Business-Nursing_Home-Lighting_Interior_General	84
Lighting - Other Commercial Buildings	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	1' x 4' LED troffer / 4' LED linear ambient retrofit kit (>= 1500 Lumens)	Two-lamp Std. T8 fixtures (4' 32W)	2857	0.067	191	0.031	88.6	0.036	102.9	0.016	18.0	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	84
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)	Two-lamp Std. T8 fixtures (4' 32W)	4089	0.067	274	0.031	126.8	0.036	147.2	0.027	12.0	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	84
Lighting - Restaurant	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	1' x 4' LED troffer / 4' LED linear ambient retrofit kit (>= 1500 Lumens)	Two-lamp Std. T8 fixtures (4' 32W)	5110	0.067	342	0.031	158.4	0.036	184.0	0.030	10.0	PSP-Business-Restaurant-Lighting_Interior_General	84
Lighting - Schools	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	1' x 4' LED troffer / 4' LED linear ambient retrofit kit (>= 1500 Lumens)	Two-lamp Std. T8 fixtures (4' 32W)	2596	0.067	174	0.031	80.5	0.036	93.5	0.005	19.0	PSP-Business-Schools-Lighting_Interior_General	84
Lighting - University Colleges	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	1' x 4' LED troffer / 4' LED linear ambient retrofit kit (>= 1500 Lumens)	Two-lamp Std. T8 fixtures (4' 32W)	3255	0.067	218	0.031	100.9	0.036	117.2	0.015	15.0	PSP-Business-University_Colleges-Lighting_Interior_General	84
Lighting - Warehouse Wholesale	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	1' x 4' LED troffer / 4' LED linear ambient retrofit kit (>= 1500 Lumens)	Two-lamp Std. T8 fixtures (4' 32W)	3759	0.067	252	0.031	116.5	0.036	135.3	0.027	13.0	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	84
Lighting - Food Retail	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	2' x 2' LED troffer / 2' linear ambient retrofit kit (>= 2000 Lumens)	U-bend 32W - 2 lamp T8	6074	0.066	401	0.032	194.4	0.034	206.5	0.029	8.0	PSP-Business-Food_Retail-Lighting_Interior_General	39
Lighting - Hospital	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	2' x 2' LED troffer / 2' linear ambient retrofit kit (>= 2000 Lumens)	U-bend 32W - 2 lamp T8	5182	0.066	342	0.032	165.8	0.034	176.2	0.024	10.0	PSP-Business-Hospital-Lighting_Interior_General	39
Lighting - Large Hotel (Corridor/Lobby)	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	2' x 2' LED troffer / 2' linear ambient retrofit kit (>= 2000 Lumens)	U-bend 32W - 2 lamp T8	7,884.00	0.066	520	0.032	252.3	0.034	268.1	0.032	6.0	PSP-Business-Large_Hotel-Lighting_Interior_General	39
Lighting - Large Non-Food Retail	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	2' x 2' LED troffer / 2' linear ambient retrofit kit (>= 2000 Lumens)	U-bend 32W - 2 lamp T8	4,089.00	0.066	270	0.032	130.8	0.034	139.0	0.021	12.0	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	39
Lighting - Large Office	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	2' x 2' LED troffer / 2' linear ambient retrofit kit (>= 2000 Lumens)	U-bend 32W - 2 lamp T8	3,610.00	0.066	238	0.032	115.5	0.034	122.7	0.022	14.0	PSP-Business-Large_Office-Lighting_Interior_General	39
Lighting - Nursing Home	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	2' x 2' LED troffer / 2' linear ambient retrofit kit (>= 2000 Lumens)	U-bend 32W - 2 lamp T8	4,308.00	0.066	284	0.032	137.9	0.034	146.5	0.022	12.0	PSP-Business-Nursing_Home-Lighting_Interior_General	39



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPE RATING_HOURS	BASE_CASE_K W	BASE_CASE_K WH	CONSERVATION _CASE_KW	CONSERVATION _CASE_KWH	FIRST_YEAR_DEMAND_S AVINGS	FIRST_YEAR_ENERGY_SA VINGS	PEAK_DEMAND_SA VINGS	EFFECTIVE_USEF UL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE COST
Lighting - Other Commercial Buildings	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	2' x 2' LED troffer / 2' linear ambient retrofit kit (>= 2000 Lumens)	U-bend 32W - 2 lamp T8	2,857.00	0.066	189	0.032	91.4	0.034	97.1	0.015	18.0	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	39
Lighting - Other Non-Food Retail	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	2' x 2' LED troffer / 2' linear ambient retrofit kit (>= 2000 Lumens)	U-bend 32W - 2 lamp T8	4,089.00	0.066	270	0.032	130.8	0.034	139.0	0.026	12.0	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	39
Lighting - Restaurant	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	2' x 2' LED troffer / 2' linear ambient retrofit kit (>= 2000 Lumens)	U-bend 32W - 2 lamp T8	5,110.00	0.066	337	0.032	163.5	0.034	173.7	0.028	10.0	PSP-Business-Restaurant-Lighting_Interior_General	39
Lighting - Schools	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	2' x 2' LED troffer / 2' linear ambient retrofit kit (>= 2000 Lumens)	U-bend 32W - 2 lamp T8	2,596.00	0.066	171	0.032	83.1	0.034	88.3	0.004	19.0	PSP-Business-Schools-Lighting_Interior_General	39
Lighting - University Colleges	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	2' x 2' LED troffer / 2' linear ambient retrofit kit (>= 2000 Lumens)	U-bend 32W - 2 lamp T8	3255	0.066	215	0.032	104.2	0.034	110.7	0.015	15.0	PSP-Business-University_Colleges-Lighting_Interior_General	39
Lighting - Warehouse Wholesale	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	2' x 2' LED troffer / 2' linear ambient retrofit kit (>= 2000 Lumens)	U-bend 32W - 2 lamp T8	3759	0.066	248	0.032	120.3	0.034	127.8	0.025	13.0	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	39
Lighting - Food Retail	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	2' x 4' LED troffer / 4' linear ambient retrofit kit (>= 3000 Lumens)	Three-lamp Std. T8 fixtures (4' 32W)	6074	0.096	583	0.042	255.1	0.054	328.0	0.047	8.0	PSP-Business-Food_Retail-Lighting_Interior_General	104
Lighting - Hospital	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	2' x 4' LED troffer / 4' linear ambient retrofit kit (>= 3000 Lumens)	Three-lamp Std. T8 fixtures (4' 32W)	5182	0.096	497	0.0420	217.6	0.054	279.8	0.037	10.0	PSP-Business-Hospital-Lighting_Interior_General	104
Lighting - Large Hotel (Corridor/Lobby)	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	2' x 4' LED troffer / 4' linear ambient retrofit kit (>= 3000 Lumens)	Three-lamp Std. T8 fixtures (4' 32W)	7884	0.096	757	0.042	331.1	0.054	425.7	0.051	6.0	PSP-Business-Large_Hotel-Lighting_Interior_General	104
Lighting - Large Non-Food Retail	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	2' x 4' LED troffer / 4' linear ambient retrofit kit (>= 3000 Lumens)	Three-lamp Std. T8 fixtures (4' 32W)	4089	0.096	393	0.042	171.7	0.054	220.8	0.033	12.0	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	104
Lighting - Large Office	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	2' x 4' LED troffer / 4' linear ambient retrofit kit (>= 3000 Lumens)	Three-lamp Std. T8 fixtures (4' 32W)	3610	0.096	347	0.0420	151.6	0.054	194.9	0.035	14.0	PSP-Business-Large_Office-Lighting_Interior_General	104
Lighting - Nursing Home	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	2' x 4' LED troffer / 4' linear ambient retrofit kit (>= 3000 Lumens)	Three-lamp Std. T8 fixtures (4' 32W)	4308	0.096	414	0.0420	180.9	0.054	232.6	0.035	12.0	PSP-Business-Nursing_Home-Lighting_Interior_General	104
Lighting - Other Commercial Buildings	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	2' x 4' LED troffer / 4' linear ambient retrofit kit (>= 3000 Lumens)	Three-lamp Std. T8 fixtures (4' 32W)	2857	0.096	274	0.0420	120.0	0.054	154.3	0.024	18.0	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	104
Lighting - Other Non-Food Retail	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	2' x 4' LED troffer / 4' linear ambient retrofit kit (>= 3000 Lumens)	Three-lamp Std. T8 fixtures (4' 32W)	4089	0.096	393	0.0420	171.7	0.054	220.8	0.041	12.0	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	104
Lighting - Restaurant	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	2' x 4' LED troffer / 4' linear ambient retrofit kit (>= 3000 Lumens)	Three-lamp Std. T8 fixtures (4' 32W)	5110	0.096	491	0.0420	214.6	0.054	275.9	0.045	10.0	PSP-Business-Restaurant-Lighting_Interior_General	104
Lighting - Schools	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	2' x 4' LED troffer / 4' linear ambient retrofit kit (>= 3000 Lumens)	Three-lamp Std. T8 fixtures (4' 32W)	2596	0.096	249	0.042	109.032	0.054	140.2	0.007	19.0	PSP-Business-Schools-Lighting_Interior_General	104



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPE RATING_HOURS	BASE_CASE_K W	BASE_CASE_K WH	CONSERVATION _CASE_KW	CONSERVATION _CASE_KWH	FIRST_YEAR_DEMAND_S AVINGS	FIRST_YEAR_ENERGY_SA VINGS	PEAK_DEMAND_SA VINGS	EFFECTIVE_USEF UL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE COST
Lighting - University Colleges	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	2' x 4' LED troffer / 4' linear ambient retrofit kit (>= 3000 Lumens)	Three-lamp Std. T8 fixtures (4' 32W)	3255	0.096	312	0.042	136.710	0.054	175.8	0.023	15.0	PSP-Business-University_Colleges-Lighting_Interior_General	104
Lighting - Warehouse Wholesale	INTEGRAL LED TROFFER & LINEAR AMBIENT RETROFIT KITS	2' x 4' LED troffer / 4' linear ambient retrofit kit (>= 3000 Lumens)	Three-lamp Std. T8 fixtures (4' 32W)	3759	0.096	361	0.042	157.878	0.054	203.0	0.040	13.0	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	104
Lighting - Greenhouses	LED GROW LIGHTS - CANNABIS GREENHOUSES	LED top lighting fixture installed in a cannabis greenhouse	Measure mix of HPS, MH and T5HO	2800	0.866	2462	0.488	1366.000	0.378	1096.0	0.005	18.0	CUSTOM-Business-Other_Commercial_Buildings-CUSTOM-Industrial-Agriculture-Horticultural_Lighting_Cannabi	104
Lighting - Greenhouses	LED GROW LIGHTS - CANNABIS WAREHOUSES	LED top lighting fixture installed in a cannabis warehouse	Measure mix of HPS, MH and T5HO	5800	0.748	4339	0.471	2,732.0	0.277	1,607.0	0.007	9.0	Other_Commercial_Buildings-CUSTOM-Industrial-Agriculture-Horticultural_Lighting_Cannabi	307
Lighting - Greenhouses	LED GROW LIGHTS - VEGETABLE GREENHOUSES	LED top lighting fixture installed in a vegetables/fruits/flowers greenhouse	1000W High Intensity Discharge (HID)	2400	1.08	2592	0.540	1,296.0	0.540	1,296.0	0.005	21.0	Other_Commercial_Buildings-CUSTOM-Industrial-Agriculture-Horticultural_Lighting_Veg	580
Lighting - Food Retail	LED HIGH BAY FIXTURE	>= 10,000 Lumens & < 105W	Average 250 watt HID lamp/ T8 HO	6074	0.236	1433	0.086	520.5	0.150	912.9	0.130	10.0	PSP-Business-Food_Retail-Lighting_Interior_General	-449
Lighting - Hospital	LED HIGH BAY FIXTURE	>= 10,000 Lumens & < 105W	Average 250 watt HID lamp/ T8 HO	5182	0.236	1223	0.086	444.1	0.150	778.9	0.104	11.0	PSP-Business-Hospital-Lighting_Interior_General	-449
Lighting - Large Hotel (Corridor/Lobby)	LED HIGH BAY FIXTURE	>= 10,000 Lumens & < 105W	Average 250 watt HID lamp/ T8 HO	7884	0.236	1861	0.086	675.7	0.150	1,185.0	0.143	8.0	PSP-Business-Large_Hotel-Lighting_Interior_General	-449
Lighting - Large Non-Food Retail	LED HIGH BAY FIXTURE	>= 10,000 Lumens & < 105W	Average 250 watt HID lamp/ T8 HO	4,089.00	0.236	965	0.086	350.4	0.150	614.6	0.091	14.0	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	-449
Lighting - Large Office	LED HIGH BAY FIXTURE	>= 10,000 Lumens & < 105W	Average 250 watt HID lamp/ T8 HO	3,610.00	0.236	852	0.086	309.4	0.150	542.6	0.097	16.0	PSP-Business-Large_Office-Lighting_Interior_General	-449
Lighting - Nursing Home	LED HIGH BAY FIXTURE	>= 10,000 Lumens & < 105W	Average 250 watt HID lamp/ T8 HO	4,308.00	0.236	1017	0.086	369.2	0.150	647.5	0.098	14.0	PSP-Business-Nursing_Home-Lighting_Interior_General	-449
Lighting - Other Commercial Buildings	LED HIGH BAY FIXTURE	>= 10,000 Lumens & < 105W	Average 250 watt HID lamp/ T8 HO	2,857.00	0.236	674	0.086	244.8	0.150	429.4	0.068	20.0	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	-449
Lighting - Other Non-Food Retail	LED HIGH BAY FIXTURE	>= 10,000 Lumens & < 105W	Average 250 watt HID lamp/ T8 HO	4,089.00	0.236	965	0.086	350.4	0.150	614.6	0.113	14.0	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	-449
Lighting - Restaurant	LED HIGH BAY FIXTURE	>= 10,000 Lumens & < 105W	Average 250 watt HID lamp/ T8 HO	5,110.00	0.236	1206	0.086	437.9	0.150	768.0	0.126	12.0	PSP-Business-Restaurant-Lighting_Interior_General	-449
Lighting - Schools	LED HIGH BAY FIXTURE	>= 10,000 Lumens & < 105W	Average 250 watt HID lamp/ T8 HO	2,596.00	0.236	613	0.086	222.5	0.150	390.2	0.020	22.0	PSP-Business-Schools-Lighting_Interior_General	-449
Lighting - University Colleges	LED HIGH BAY FIXTURE	>= 10,000 Lumens & < 105W	Average 250 watt HID lamp/ T8 HO	3,255.00	0.236	768	0.086	279.0	0.150	489.2	0.064	18.0	PSP-Business-University_Colleges-Lighting_Interior_General	-449



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPE RATING_HOURS	BASE_CASE_K W	BASE_CASE_K WH	CONSERVATION _CASE_KW	CONSERVATION CASE_KWH	FIRST_YEAR_DEMAND_S AVINGS	FIRST_YEAR_ENERGY_SA VINGS	PEAK_DEMAND_SA VINGS	EFFECTIVE_USEF UL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE COST
Lighting - Warehouse Wholesale	LED HIGH BAY FIXTURE	>= 10,000 Lumens & < 105W	Average 250 watt HID lamp/ T8 HO	3759	0.236	887	0.086	322.1	0.150	565.0	0.111	16.0	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	-449
Lighting - Food Retail	LED HIGH BAY FIXTURE	>= 12,200 Lumens & < 132W	Average 320 watt HID lamp/ T8 HO	6074	0.289	1755	0.1019	618.9	0.187	1,136.4	0.161	10.0	PSP-Business-Food_Retail-Lighting_Interior_General	-449
Lighting - Hospital	LED HIGH BAY FIXTURE	>= 12,200 Lumens & < 132W	Average 320 watt HID lamp/ T8 HO	5182	0.289	1498	0.102	528.0	0.187	969.6	0.129	11.0	PSP-Business-Hospital-Lighting_Interior_General	-449
Lighting - Large Hotel (Corridor/Lobby)	LED HIGH BAY FIXTURE	>= 12,200 Lumens & < 132W	Average 320 watt HID lamp/ T8 HO	7884	0.289	2278	0.102	803.4	0.187	1,475.1	0.178	8.0	PSP-Business-Large_Hotel-Lighting_Interior_General	-449
Lighting - Large Non-Food Retail	LED HIGH BAY FIXTURE	>= 12,200 Lumens & < 132W	Average 320 watt HID lamp/ T8 HO	4089	0.289	1182	0.1019	416.7	0.187	765.1	0.113	14.0	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	-449
Lighting - Large Office	LED HIGH BAY FIXTURE	>= 12,200 Lumens & < 132W	Average 320 watt HID lamp/ T8 HO	3610	0.289	1043	0.1019	367.9	0.187	675.4	0.121	16.0	PSP-Business-Large_Office-Lighting_Interior_General	-449
Lighting - Nursing Home	LED HIGH BAY FIXTURE	>= 12,200 Lumens & < 132W	Average 320 watt HID lamp/ T8 HO	4308	0.289	1245	0.1019	439.0	0.187	806.0	0.122	14.0	PSP-Business-Nursing_Home-Lighting_Interior_General	-449
Lighting - Other Commercial Buildings	LED HIGH BAY FIXTURE	>= 12,200 Lumens & < 132W	Average 320 watt HID lamp/ T8 HO	2857	0.289	826	0.1019	291.1	0.187	534.5	0.084	20.0	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	-449
Lighting - Other Non-Food Retail	LED HIGH BAY FIXTURE	>= 12,200 Lumens & < 132W	Average 320 watt HID lamp/ T8 HO	4089	0.289	1182	0.1019	416.7	0.187	765.1	0.141	14.0	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	-449
Lighting - Restaurant	LED HIGH BAY FIXTURE	>= 12,200 Lumens & < 132W	Average 320 watt HID lamp/ T8 HO	5110	0.289	1477	0.102	520.709	0.187	956.1	0.157	12.0	PSP-Business-Restaurant-Lighting_Interior_General	-449
Lighting - Schools	LED HIGH BAY FIXTURE	>= 12,200 Lumens & < 132W	Average 320 watt HID lamp/ T8 HO	2596	0.289	750	0.102	264.532	0.187	485.7	0.024	22.0	PSP-Business-Schools-Lighting_Interior_General	-449
Lighting - University Colleges	LED HIGH BAY FIXTURE	>= 12,200 Lumens & < 132W	Average 320 watt HID lamp/ T8 HO	3255	0.289	941	0.102	331.685	0.187	609.0	0.080	18.0	PSP-Business-University_Colleges-Lighting_Interior_General	-449
Lighting - Warehouse Wholesale	LED HIGH BAY FIXTURE	>= 12,200 Lumens & < 132W	Average 320 watt HID lamp/ T8 HO	3759	0.289	1086	0.102	383.042	0.187	703.3	0.138	16.0	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	-449
Lighting - Food Retail	LED HIGH BAY FIXTURE	>= 15,500 Lumens & < 178W	Average 400 watt HID lamp/ T8 HO	6074	0.367	2229	0.139	844.3	0.228	1,384.9	0.197	10.0	PSP-Business-Food_Retail-Lighting_Interior_General	-136
Lighting - Hospital	LED HIGH BAY FIXTURE	>= 15,500 Lumens & < 178W	Average 400 watt HID lamp/ T8 HO	5182	0.367	1902	0.139	720.3	0.228	1,181.5	0.158	11.0	PSP-Business-Hospital-Lighting_Interior_General	-136
Lighting - Large Hotel (Corridor/Lobby)	LED HIGH BAY FIXTURE	>= 15,500 Lumens & < 178W	Average 400 watt HID lamp/ T8 HO	7884	0.367	2893	0.139	1,095.9	0.228	1,797.6	0.217	8.0	PSP-Business-Large_Hotel-Lighting_Interior_General	-136



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPE RATING_HOURS	BASE_CASE_K W	BASE_CASE_K WH	CONSERVATION _CASE_KW	CONSERVATION _CASE_KWH	FIRST_YEAR_DEMAND_S AVINGS	FIRST_YEAR_ENERGY_SA VINGS	PEAK_DEMAND_SA VINGS	EFFECTIVE_USEF UL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE COST
Lighting - Large Non-Food Retail	LED HIGH BAY FIXTURE	>= 15,500 Lumens & < 178W	Average 400 watt HID lamp/ T8 HO	4089	0.367	1501	0.139	568.4	0.228	932.3	0.138	14.0	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	-136
Lighting - Large Office	LED HIGH BAY FIXTURE	>= 15,500 Lumens & < 178W	Average 400 watt HID lamp/ T8 HO	3610	0.367	1325	0.139	501.8	0.228	823.1	0.147	16.0	PSP-Business-Large_Office-Lighting_Interior_General	-136
Lighting - Nursing Home	LED HIGH BAY FIXTURE	>= 15,500 Lumens & < 178W	Average 400 watt HID lamp/ T8 HO	4,308.00	0.367	1581	0.139	598.8	0.228	982.2	0.149	14.0	PSP-Business-Nursing_Home-Lighting_Interior_General	-136
Lighting - Other Commercial Buildings	LED HIGH BAY FIXTURE	>= 15,500 Lumens & < 178W	Average 400 watt HID lamp/ T8 HO	2,857.00	0.367	1049	0.139	397.1	0.228	651.4	0.103	20.0	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	-136
Lighting - Other Non-Food Retail	LED HIGH BAY FIXTURE	>= 15,500 Lumens & < 178W	Average 400 watt HID lamp/ T8 HO	4,089.00	0.367	1501	0.139	568.4	0.228	932.3	0.172	14.0	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	-136
Lighting - Restaurant	LED HIGH BAY FIXTURE	>= 15,500 Lumens & < 178W	Average 400 watt HID lamp/ T8 HO	5,110.00	0.367	1875	0.139	710.3	0.228	1,165.1	0.191	12.0	PSP-Business-Restaurant-Lighting_Interior_General	-136
Lighting - Schools	LED HIGH BAY FIXTURE	>= 15,500 Lumens & < 178W	Average 400 watt HID lamp/ T8 HO	2,596.00	0.367	953	0.139	360.8	0.228	591.9	0.030	22.0	PSP-Business-Schools-Lighting_Interior_General	-136
Lighting - University Colleges	LED HIGH BAY FIXTURE	>= 15,500 Lumens & < 178W	Average 400 watt HID lamp/ T8 HO	3,255.00	0.367	1195	0.139	452.4	0.228	742.1	0.098	18.0	PSP-Business-University_Colleges-Lighting_Interior_General	-136
Lighting - Warehouse Wholesale	LED HIGH BAY FIXTURE	>= 15,500 Lumens & < 178W	Average 400 watt HID lamp/ T8 HO	3,759.00	0.367	1380	0.139	522.5	0.228	857.1	0.168	16.0	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	-136
Lighting - Food Retail	LED HIGH BAY FIXTURE	>= 20,100 Lumens & < 305W	Average 750 watt HID lamp/ T8 HO	6,074.00	0.634	3851	0.194	1,178.4	0.440	2,672.6	0.380	10.0	PSP-Business-Food_Retail-Lighting_Interior_General	-136
Lighting - Hospital	LED HIGH BAY FIXTURE	>= 20,100 Lumens & < 305W	Average 750 watt HID lamp/ T8 HO	5182	0.634	3285	0.194	1,005.3	0.440	2,280.1	0.304	11.0	PSP-Business-Hospital-Lighting_Interior_General	-136
Lighting - Large Hotel (Corridor/Lobby)	LED HIGH BAY FIXTURE	>= 20,100 Lumens & < 305W	Average 750 watt HID lamp/ T8 HO	7884	0.634	4998	0.194	1,529.5	0.440	3,469.0	0.419	8.0	PSP-Business-Large_Hotel-Lighting_Interior_General	-136
Lighting - Large Non-Food Retail	LED HIGH BAY FIXTURE	>= 20,100 Lumens & < 305W	Average 750 watt HID lamp/ T8 HO	4089	0.634	2592	0.194	793.3	0.440	1,799.2	0.267	14.0	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	-136
Lighting - Large Office	LED HIGH BAY FIXTURE	>= 20,100 Lumens & < 305W	Average 750 watt HID lamp/ T8 HO	3610	0.634	2289	0.1940	700.3	0.440	1,588.4	0.284	16.0	PSP-Business-Large_Office-Lighting_Interior_General	-136
Lighting - Nursing Home	LED HIGH BAY FIXTURE	>= 20,100 Lumens & < 305W	Average 750 watt HID lamp/ T8 HO	4308	0.634	2731	0.194	835.8	0.440	1,895.5	0.287	14.0	PSP-Business-Nursing_Home-Lighting_Interior_General	-136
Lighting - Other Commercial Buildings	LED HIGH BAY FIXTURE	>= 20,100 Lumens & < 305W	Average 750 watt HID lamp/ T8 HO	2857	0.634	1811	0.194	554.3	0.440	1,257.1	0.198	20.0	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	-136



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 Non-Food Retail	LED HIGH BAY FIXTURE	>= 20,100 Lumens & < 305W	Average 750 watt HID lamp/ T8 HO	4089	0.634	2592	0.1940	793.3	0.440	1,799.2	0.332	14.0	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	-136
Lighting - Restaurant	LED HIGH BAY FIXTURE	>= 20,100 Lumens & < 305W	Average 750 watt HID lamp/ T8 HO	5110	0.634	3240	0.1940	991.3	0.440	2,248.4	0.369	12.0	PSP-Business-Restaurant-Lighting_Interior_General	-136
Lighting - Schools	LED HIGH BAY FIXTURE	>= 20,100 Lumens & < 305W	Average 750 watt HID lamp/ T8 HO	2596	0.634	1646	0.1940	503.6	0.440	1,142.2	0.057	22.0	PSP-Business-Schools-Lighting_Interior_General	-136
Lighting - University Colleges	LED HIGH BAY FIXTURE	>= 20,100 Lumens & < 305W	Average 750 watt HID lamp/ T8 HO	3255	0.634	2064	0.1940	631.5	0.440	1,432.2	0.189	18.0	PSP-Business-University_Colleges-Lighting_Interior_General	-136
Lighting - Warehouse Wholesale	LED HIGH BAY FIXTURE	>= 20,100 Lumens & < 305W	Average 750 watt HID lamp/ T8 HO	3759	0.634	2383	0.1940	729.2	0.440	1,654.0	0.325	16.0	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	-136
Lighting - Food Retail	LED HIGH BAY FIXTURE	>= 34,700 Lumens & >= 305W	Average 1000 watt HID lamp/ T8 HO	6074	0.901	5473	0.345	2095.530	0.556	3377.1	0.480	10.0	PSP-Business-Food_Retail-Lighting_Interior_General	-136
Lighting - Hospital	LED HIGH BAY FIXTURE	>= 34,700 Lumens & >= 305W	Average 1000 watt HID lamp/ T8 HO	5182	0.901	4669	0.345	1787.790	0.556	2881.2	0.385	11.0	PSP-Business-Hospital-Lighting_Interior_General	-136
Lighting - Large Hotel (Corridor/Lobby)	LED HIGH BAY FIXTURE	>= 34,700 Lumens & >= 305W	Average 1000 watt HID lamp/ T8 HO	7884	0.901	7103	0.345	2719.980	0.556	4383.5	0.530	8.0	PSP-Business-Large_Hotel-Lighting_Interior_General	-136
Lighting - Large Non-Food Retail	LED HIGH BAY FIXTURE	>= 34,700 Lumens & >= 305W	Average 1000 watt HID lamp/ T8 HO	4089	0.901	3684	0.345	1410.705	0.556	2273.5	0.337	14.0	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	-136
Lighting - Large Office	LED HIGH BAY FIXTURE	>= 34,700 Lumens & >= 305W	Average 1000 watt HID lamp/ T8 HO	3610	0.901	3253	0.345	1,245.5	0.556	2,007.2	0.358	16.0	PSP-Business-Large_Office-Lighting_Interior_General	-136
Lighting - Nursing Home	LED HIGH BAY FIXTURE	>= 34,700 Lumens & >= 305W	Average 1000 watt HID lamp/ T8 HO	4308	0.901	3882	0.345	1,486.3	0.556	2,395.2	0.362	14.0	PSP-Business-Nursing_Home-Lighting_Interior_General	-136
Lighting - Other Commercial Buildings	LED HIGH BAY FIXTURE	>= 34,700 Lumens & >= 305W	Average 1000 watt HID lamp/ T8 HO	2857	0.901	2574	0.345	985.7	0.556	1,588.5	0.251	20.0	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	-136
Lighting - Other Non-Food Retail	LED HIGH BAY FIXTURE	>= 34,700 Lumens & >= 305W	Average 1000 watt HID lamp/ T8 HO	4089	0.901	3684	0.345	1,410.7	0.556	2,273.5	0.419	14.0	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	-136
Lighting - Restaurant	LED HIGH BAY FIXTURE	>= 34,700 Lumens & >= 305W	Average 1000 watt HID lamp/ T8 HO	5110	0.901	4604	0.345	1,763.0	0.556	2,841.2	0.466	12.0	PSP-Business-Restaurant-Lighting_Interior_General	-136
Lighting - Schools	LED HIGH BAY FIXTURE	>= 34,700 Lumens & >= 305W	Average 1000 watt HID lamp/ T8 HO	2,596.00	0.901	2339	0.345	895.6	0.556	1,443.4	0.073	22.0	PSP-Business-Schools-Lighting_Interior_General	-136
Lighting - University Colleges	LED HIGH BAY FIXTURE	>= 34,700 Lumens & >= 305W	Average 1000 watt HID lamp/ T8 HO	3,255.00	0.901	2933	0.345	1,123.0	0.556	1,809.8	0.238	18.0	PSP-Business-University_Colleges-Lighting_Interior_General	-136



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPE RATING_HOURS	BASE_CASE_K W	BASE_CASE_K WH	CONSERVATION _CASE_KW	CONSERVATION CASE_KWH	FIRST_YEAR_DEMAND_S AVINGS	FIRST_YEAR_ENERGY_SA VINGS	PEAK_DEMAND_SA VINGS	EFFECTIVE_USEF UL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE COST
Lighting - Warehouse Wholesale	LED HIGH BAY FIXTURE	>= 34,700 Lumens & >= 305W	Average 1000 watt HiD lamp/ T8 HO	3,759.00	0.901	3387	0.345	1,296.9	0.556	2,090.0	0.411	16.0	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	-136
Lighting - Food Retail	LED LOW-BAY FIXTURES	<=100W <=10,000 Lumens	Four-lamp Tandem T8 Strip Fixture (32W)	6,074.00	0.11264	684	0.053	321.9	0.060	362.3	0.051	8.0	PSP-Business-Food_Retail-Lighting_Interior_General	184
Lighting - Hospital	LED LOW-BAY FIXTURES	<=100W <=10,000 Lumens	Four-lamp Tandem T8 Strip Fixture (32W)	5,182.00	0.11264	584	0.053	274.6	0.060	309.1	0.041	10.0	PSP-Business-Hospital-Lighting_Interior_General	184
Lighting - Large Hotel (Corridor/Lobby)	LED LOW-BAY FIXTURES	<=100W <=10,000 Lumens	Four-lamp Tandem T8 Strip Fixture (32W)	7,884.00	0.11264	888	0.053	417.9	0.060	470.2	0.057	6.0	PSP-Business-Large_Hotel-Lighting_Interior_General	184
Lighting - Large Non-Food Retail	LED LOW-BAY FIXTURES	<=100W <=10,000 Lumens	Four-lamp Tandem T8 Strip Fixture (32W)	4,089.00	0.11264	461	0.053	216.7	0.060	243.9	0.036	12.0	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	184
Lighting - Large Office	LED LOW-BAY FIXTURES	<=100W <=10,000 Lumens	Four-lamp Tandem T8 Strip Fixture (32W)	3,610.00	0.11264	407	0.053	191.3	0.060	215.3	0.038	14.0	PSP-Business-Large_Office-Lighting_Interior_General	184
Lighting - Nursing Home	LED LOW-BAY FIXTURES	<=100W <=10,000 Lumens	Four-lamp Tandem T8 Strip Fixture (32W)	4308	0.11264	485	0.053	228.3	0.060	256.9	0.039	12.0	PSP-Business-Nursing_Home-Lighting_Interior_General	184
Lighting - Other Commercial Buildings	LED LOW-BAY FIXTURES	<=100W <=10,000 Lumens	Four-lamp Tandem T8 Strip Fixture (32W)	2857	0.11264	322	0.0530	151.4	0.060	170.4	0.027	18.0	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	184
Lighting - Other Non-Food Retail	LED LOW-BAY FIXTURES	<=100W <=10,000 Lumens	Four-lamp Tandem T8 Strip Fixture (32W)	4089	0.11264	461	0.053	216.7	0.060	243.9	0.045	12.0	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	184
Lighting - Restaurant	LED LOW-BAY FIXTURES	<=100W <=10,000 Lumens	Four-lamp Tandem T8 Strip Fixture (32W)	5110	0.11264	576	0.053	270.8	0.060	304.8	0.050	10.0	PSP-Business-Restaurant-Lighting_Interior_General	184
Lighting - Schools	LED LOW-BAY FIXTURES	<=100W <=10,000 Lumens	Four-lamp Tandem T8 Strip Fixture (32W)	2596	0.11264	292	0.0530	137.6	0.060	154.8	0.008	19.0	PSP-Business-Schools-Lighting_Interior_General	184
Lighting - University Colleges	LED LOW-BAY FIXTURES	<=100W <=10,000 Lumens	Four-lamp Tandem T8 Strip Fixture (32W)	3255	0.11264	367	0.0530	172.5	0.060	194.1	0.026	15.0	PSP-Business-University_Colleges-Lighting_Interior_General	184
Lighting - Warehouse Wholesale	LED LOW-BAY FIXTURES	<=100W <=10,000 Lumens	Four-lamp Tandem T8 Strip Fixture (32W)	3759	0.11264	423	0.0530	199.2	0.060	224.2	0.044	13.0	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	184
Lighting - Food Retail	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 400 and < 600 Lumens	ENERGY STAR® 15W or 18W CFL	6074	0.0165	100	0.0094	57.1	0.007	43.1	0.006	7.0	PSP-Business-Food_Retail-Lighting_Interior_General	16
Lighting - Hospital	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 400 and < 600 Lumens	ENERGY STAR® 15W or 18W CFL	5182	0.0165	86	0.0094	48.7	0.007	36.8	0.005	8.0	PSP-Business-Hospital-Lighting_Interior_General	16
Lighting - Large Hotel (Corridor/Lobby)	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 400 and < 600 Lumens	ENERGY STAR® 15W or 18W CFL	7884	0.0165	130	0.009	74.110	0.007	56.0	0.007	6.0	PSP-Business-Large_Hotel-Lighting_Interior_General	16



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPE RATING_HOURS	BASE_CASE_K W	BASE_CASE_K WH	CONSERVATION _CASE_KW	CONSERVATION _CASE_KWH	FIRST_YEAR_DEMAND_S AVINGS	FIRST_YEAR_ENERGY_SA VINGS	PEAK_DEMAND_SA VINGS	EFFECTIVE_USEF UL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE COST
Lighting - Large Non-Food Retail	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 400 and < 600 Lumens	ENERGY STAR® 15W or 18W CFL	4089	0.0165	67	0.009	38.437	0.007	29.0	0.004	11.0	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	16
Lighting - Large Office	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 400 and < 600 Lumens	ENERGY STAR® 15W or 18W CFL	3610	0.0165	60	0.009	33.934	0.007	25.6	0.005	12.0	PSP-Business-Large_Office-Lighting_Interior_General	16
Lighting - Nursing Home	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 400 and < 600 Lumens	ENERGY STAR® 15W or 18W CFL	4308	0.0165	71	0.009	40.495	0.007	30.6	0.005	10.0	PSP-Business-Nursing_Home-Lighting_Interior_General	16
Lighting - Other Commercial Buildings	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 400 and < 600 Lumens	ENERGY STAR® 15W or 18W CFL	2857	0.0165	47	0.009	26.9	0.007	20.3	0.003	15.0	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	16
Lighting - Other Non-Food Retail	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 400 and < 600 Lumens	ENERGY STAR® 15W or 18W CFL	4089	0.0165	67	0.009	38.4	0.007	29.0	0.005	11.0	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	16
Lighting - Restaurant	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 400 and < 600 Lumens	ENERGY STAR® 15W or 18W CFL	5110	0.0165	84	0.009	48.0	0.007	36.3	0.006	9.0	PSP-Business-Restaurant-Lighting_Interior_General	16
Lighting - Schools	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 400 and < 600 Lumens	ENERGY STAR® 15W or 18W CFL	2596	0.0165	43	0.009	24.4	0.007	18.4	0.001	17.0	PSP-Business-Schools-Lighting_Interior_General	16
Lighting - University Colleges	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 400 and < 600 Lumens	ENERGY STAR® 15W or 18W CFL	3255	0.0165	54	0.009	30.6	0.007	23.1	0.003	14.0	PSP-Business-University_Colleges-Lighting_Interior_General	16
Lighting - Warehouse Wholesale	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 400 and < 600 Lumens	ENERGY STAR® 15W or 18W CFL	3,759.00	0.0165	62	0.009	35.3	0.007	26.7	0.005	12.0	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	16
Lighting - Food Retail	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 600 and < 800 Lumens	ENERGY STAR® 22W CFL	6,074.00	0.022	134	0.012	72.9	0.010	60.7	0.009	7.0	PSP-Business-Food_Retail-Lighting_Interior_General	55
Lighting - Hospital	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 600 and < 800 Lumens	ENERGY STAR® 22W CFL	5,182.00	0.022	114	0.012	62.2	0.010	51.8	0.007	8.0	PSP-Business-Hospital-Lighting_Interior_General	55
Lighting - Large Hotel (Corridor/Lobby)	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 600 and < 800 Lumens	ENERGY STAR® 22W CFL	7,884.00	0.022	173	0.012	94.6	0.010	78.8	0.010	6.0	PSP-Business-Large_Hotel-Lighting_Interior_General	55
Lighting - Large Non-Food Retail	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 600 and < 800 Lumens	ENERGY STAR® 22W CFL	4,089.00	0.022	90	0.012	49.1	0.010	40.9	0.006	11.0	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	55
Lighting - Large Office	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 600 and < 800 Lumens	ENERGY STAR® 22W CFL	3,610.00	0.022	79	0.012	43.3	0.010	36.1	0.006	12.0	PSP-Business-Large_Office-Lighting_Interior_General	55
Lighting - Nursing Home	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 600 and < 800 Lumens	ENERGY STAR® 22W CFL	4,308.00	0.022	95	0.012	51.7	0.010	43.1	0.007	10.0	PSP-Business-Nursing_Home-Lighting_Interior_General	55
Lighting - Other Commercial Buildings	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 600 and < 800 Lumens	ENERGY STAR® 22W CFL	2,857.00	0.022	63	0.012	34.3	0.010	28.6	0.005	15.0	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	55



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPE RATING_HOURS	BASE_CASE_K W	BASE_CASE_K WH	CONSERVATION _CASE_KW	CONSERVATION _CASE_KWH	FIRST_YEAR_DEMAND_S AVINGS	FIRST_YEAR_ENERGY_SA VINGS	PEAK_DEMAND_SA VINGS	EFFECTIVE_USEF UL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE COST
Lighting - Other Non-Food Retail	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 600 and < 800 Lumens	ENERGY STAR® 22W CFL	4089	0.022	90	0.012	49.1	0.010	40.9	0.008	11.0	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	55
Lighting - Restaurant	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 600 and < 800 Lumens	ENERGY STAR® 22W CFL	5110	0.022	112	0.0120	61.3	0.010	51.1	0.008	9.0	PSP-Business-Restaurant-Lighting_Interior_General	55
Lighting - Schools	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 600 and < 800 Lumens	ENERGY STAR® 22W CFL	2596	0.022	57	0.012	31.2	0.010	26.0	0.001	17.0	PSP-Business-Schools-Lighting_Interior_General	55
Lighting - University Colleges	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 600 and < 800 Lumens	ENERGY STAR® 22W CFL	3255	0.022	72	0.012	39.1	0.010	32.6	0.004	14.0	PSP-Business-University_Colleges-Lighting_Interior_General	55
Lighting - Warehouse Wholesale	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 600 and < 800 Lumens	ENERGY STAR® 22W CFL	3759	0.022	83	0.0120	45.1	0.010	37.6	0.007	12.0	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	55
Lighting - Food Retail	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 800 Lumens	ENERGY STAR® 26W CFL	6074	0.026	158	0.0153	92.9	0.011	65.0	0.009	7.0	PSP-Business-Food_Retail-Lighting_Interior_General	56
Lighting - Hospital	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 800 Lumens	ENERGY STAR® 26W CFL	5182	0.026	135	0.0153	79.3	0.011	55.4	0.007	8.0	PSP-Business-Hospital-Lighting_Interior_General	56
Lighting - Large Hotel (Corridor/Lobby)	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 800 Lumens	ENERGY STAR® 26W CFL	7884	0.026	205	0.0153	120.6	0.011	84.4	0.010	6.0	PSP-Business-Large_Hotel-Lighting_Interior_General	56
Lighting - Large Non-Food Retail	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 800 Lumens	ENERGY STAR® 26W CFL	4089	0.026	106	0.0153	62.6	0.011	43.8	0.006	11.0	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	56
Lighting - Large Office	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 800 Lumens	ENERGY STAR® 26W CFL	3610	0.026	94	0.015	55.233	0.011	38.6	0.007	12.0	PSP-Business-Large_Office-Lighting_Interior_General	56
Lighting - Nursing Home	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 800 Lumens	ENERGY STAR® 26W CFL	4308	0.026	112	0.015	65.912	0.011	46.1	0.007	10.0	PSP-Business-Nursing_Home-Lighting_Interior_General	56
Lighting - Other Commercial Buildings	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 800 Lumens	ENERGY STAR® 26W CFL	2857	0.026	74	0.015	43.712	0.011	30.6	0.005	15.0	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	56
Lighting - Other Non-Food Retail	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 800 Lumens	ENERGY STAR® 26W CFL	4089	0.026	106	0.015	62.562	0.011	43.8	0.008	11.0	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	56
Lighting - Restaurant	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 800 Lumens	ENERGY STAR® 26W CFL	5110	0.026	133	0.015	78.2	0.011	54.7	0.009	9.0	PSP-Business-Restaurant-Lighting_Interior_General	56
Lighting - Schools	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 800 Lumens	ENERGY STAR® 26W CFL	2596	0.026	67	0.015	39.7	0.011	27.8	0.001	17.0	PSP-Business-Schools-Lighting_Interior_General	56
Lighting - University Colleges	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 800 Lumens	ENERGY STAR® 26W CFL	3255	0.026	85	0.015	49.8	0.011	34.8	0.005	14.0	PSP-Business-University_Colleges-Lighting_Interior_General	56



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPE RATING_HOURS	BASE_CASE_K W	BASE_CASE_K WH	CONSERVATION _CASE_KW	CONSERVATION CASE_KWH	FIRST_YEAR_DEMAND_S AVINGS	FIRST_YEAR_ENERGY_SA VINGS	PEAK_DEMAND_SA VINGS	EFFECTIVE_USEF UL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE COST
Lighting - Warehouse Wholesale	LED RECESSED DOWNLIGHTS	LED Downlight with Light Output >= 800 Lumens	ENERGY STAR® 26W CFL	3759	0.026	98	0.015	57.5	0.011	40.2	0.008	12.0	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	56
Lighting - Food Retail	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 7W >= 250 Lumens	20W - 35W Halogen or Incandescent Lamp	6074	0.0275	167	0.006	36.4	0.022	130.6	0.019	4.0	PSP-Business-Food_Retail-Lighting_Interior_General	-94
Lighting - Hospital	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 7W >= 250 Lumens	20W - 35W Halogen or Incandescent Lamp	5182	0.0275	143	0.006	31.1	0.022	111.4	0.015	5.0	PSP-Business-Hospital-Lighting_Interior_General	-94
Lighting - Large Hotel (Corridor/Lobby)	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 7W >= 250 Lumens	20W - 35W Halogen or Incandescent Lamp	7,884.00	0.0275	217	0.006	47.3	0.022	169.5	0.020	3.0	PSP-Business-Large_Hotel-Lighting_Interior_General	-94
Lighting - Large Non-Food Retail	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 7W >= 250 Lumens	20W - 35W Halogen or Incandescent Lamp	4,089.00	0.0275	112	0.006	24.5	0.022	87.9	0.013	6.0	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	-94
Lighting - Large Office	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 7W >= 250 Lumens	20W - 35W Halogen or Incandescent Lamp	3,610.00	0.0275	99	0.006	21.7	0.022	77.6	0.014	7.0	PSP-Business-Large_Office-Lighting_Interior_General	-94
Lighting - Nursing Home	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 7W >= 250 Lumens	20W - 35W Halogen or Incandescent Lamp	4,308.00	0.0275	118	0.006	25.8	0.022	92.6	0.014	6.0	PSP-Business-Nursing_Home-Lighting_Interior_General	-94
Lighting - Other Commercial Buildings	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 7W >= 250 Lumens	20W - 35W Halogen or Incandescent Lamp	2,857.00	0.0275	79	0.006	17.1	0.022	61.4	0.010	9.0	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	-94
Lighting - Other Non-Food Retail	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 7W >= 250 Lumens	20W - 35W Halogen or Incandescent Lamp	4,089.00	0.0275	112	0.006	24.5	0.022	87.9	0.016	6.0	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	-94
Lighting - Restaurant	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 7W >= 250 Lumens	20W - 35W Halogen or Incandescent Lamp	5,110.00	0.0275	141	0.006	30.7	0.022	109.9	0.018	5.0	PSP-Business-Restaurant-Lighting_Interior_General	-94
Lighting - Schools	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 7W >= 250 Lumens	20W - 35W Halogen or Incandescent Lamp	2,596.00	0.0275	71	0.006	15.6	0.022	55.8	0.003	10.0	PSP-Business-Schools-Lighting_Interior_General	-94
Lighting - University Colleges	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 7W >= 250 Lumens	20W - 35W Halogen or Incandescent Lamp	3255	0.0275	90	0.006	19.5	0.022	70.0	0.009	8.0	PSP-Business-University_Colleges-Lighting_Interior_General	-94
Lighting - Warehouse Wholesale	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 7W >= 250 Lumens	20W - 35W Halogen or Incandescent Lamp	3759	0.0275	103	0.006	22.6	0.022	80.8	0.016	7.0	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	-94
Lighting - Food Retail	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 14W >= 400 Lumens	35W - 38W Halogen or Incandescent Lamp	6074	0.0365	222	0.0075	45.6	0.029	176.1	0.025	4.0	PSP-Business-Food_Retail-Lighting_Interior_General	-55
Lighting - Hospital	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 14W >= 400 Lumens	35W - 38W Halogen or Incandescent Lamp	5182	0.0365	189	0.008	38.9	0.029	150.3	0.020	5.0	PSP-Business-Hospital-Lighting_Interior_General	-55
Lighting - Large Hotel (Corridor/Lobby)	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 14W >= 400 Lumens	35W - 38W Halogen or Incandescent Lamp	7884	0.0365	288	0.008	59.1	0.029	228.6	0.028	3.0	PSP-Business-Large_Hotel-Lighting_Interior_General	-55



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPE RATING_HOURS	BASE_CASE_K W	BASE_CASE_K WH	CONSERVATION _CASE_KW	CONSERVATION CASE_KWH	FIRST_YEAR_DEMAND_S AVINGS	FIRST_YEAR_ENERGY_SA VINGS	PEAK_DEMAND_SA VINGS	EFFECTIVE_USEF UL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE COST
Lighting - Large Non-Food Retail	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 14W >= 400 Lumens	35W - 38W Halogen or Incandescent Lamp	4089	0.0365	149	0.0075	30.7	0.029	118.6	0.018	6.0	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	-55
Lighting - Large Office	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 14W >= 400 Lumens	35W - 38W Halogen or Incandescent Lamp	3610	0.0365	132	0.0075	27.1	0.029	104.7	0.019	7.0	PSP-Business-Large_Office-Lighting_Interior_General	-55
Lighting - Nursing Home	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 14W >= 400 Lumens	35W - 38W Halogen or Incandescent Lamp	4308	0.0365	157	0.0075	32.3	0.029	124.9	0.019	6.0	PSP-Business-Nursing_Home-Lighting_Interior_General	-55
Lighting - Other Commercial Buildings	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 14W >= 400 Lumens	35W - 38W Halogen or Incandescent Lamp	2857	0.0365	104	0.0075	21.4	0.029	82.9	0.013	9.0	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	-55
Lighting - Other Non-Food Retail	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 14W >= 400 Lumens	35W - 38W Halogen or Incandescent Lamp	4089	0.0365	149	0.0075	30.7	0.029	118.6	0.022	6.0	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	-55
Lighting - Restaurant	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 14W >= 400 Lumens	35W - 38W Halogen or Incandescent Lamp	5110	0.0365	187	0.008	38.325	0.029	148.2	0.024	5.0	PSP-Business-Restaurant-Lighting_Interior_General	-55
Lighting - Schools	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 14W >= 400 Lumens	35W - 38W Halogen or Incandescent Lamp	2596	0.0365	95	0.008	19.470	0.029	75.3	0.004	10.0	PSP-Business-Schools-Lighting_Interior_General	-55
Lighting - University Colleges	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 14W >= 400 Lumens	35W - 38W Halogen or Incandescent Lamp	3255	0.0365	119	0.008	24.413	0.029	94.4	0.012	8.0	PSP-Business-University_Colleges-Lighting_Interior_General	-55
Lighting - Warehouse Wholesale	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 14W >= 400 Lumens	35W - 38W Halogen or Incandescent Lamp	3759	0.0365	137	0.008	28.193	0.029	109.0	0.021	7.0	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	-55
Lighting - Food Retail	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 16W >= 600 Lumens	38W - 43W Halogen or Incandescent Lamp	6074	0.0405	246	0.011	66.8	0.030	179.2	0.025	4.0	PSP-Business-Food_Retail-Lighting_Interior_General	-27
Lighting - Hospital	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 16W >= 600 Lumens	38W - 43W Halogen or Incandescent Lamp	5182	0.0405	210	0.011	57.0	0.030	152.9	0.020	5.0	PSP-Business-Hospital-Lighting_Interior_General	-27
Lighting - Large Hotel (Corridor/Lobby)	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 16W >= 600 Lumens	38W - 43W Halogen or Incandescent Lamp	7884	0.0405	319	0.011	86.7	0.030	232.6	0.028	3.0	PSP-Business-Large_Hotel-Lighting_Interior_General	-27
Lighting - Large Non-Food Retail	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 16W >= 600 Lumens	38W - 43W Halogen or Incandescent Lamp	4089	0.0405	166	0.011	45.0	0.030	120.6	0.018	6.0	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	-27
Lighting - Large Office	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 16W >= 600 Lumens	38W - 43W Halogen or Incandescent Lamp	3610	0.0405	146	0.011	39.7	0.030	106.5	0.019	7.0	PSP-Business-Large_Office-Lighting_Interior_General	-27
Lighting - Nursing Home	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 16W >= 600 Lumens	38W - 43W Halogen or Incandescent Lamp	4308	0.0405	174	0.011	47.4	0.030	127.1	0.019	6.0	PSP-Business-Nursing_Home-Lighting_Interior_General	-27
Lighting - Other Commercial Buildings	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 16W >= 600 Lumens	38W - 43W Halogen or Incandescent Lamp	2857	0.0405	116	0.011	31.4	0.030	84.3	0.013	9.0	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	-27



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPE RATING_HOURS	BASE_CASE_K W	BASE_CASE_K WH	CONSERVATION _CASE_KW	CONSERVATION CASE_KWH	FIRST_YEAR_DEMAND_S AVINGS	FIRST_YEAR_ENERGY_SA VINGS	PEAK_DEMAND_SA VINGS	EFFECTIVE_USEF UL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE COST
Lighting - Other Non-Food Retail	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 16W >= 600 Lumens	38W - 43W Halogen or Incandescent Lamp	4089	0.0405	166	0.011	45.0	0.030	120.6	0.022	6.0	PSP-Business-Other_Non_Food_Retail- Lighting_Interior_General	-27
Lighting - Restaurant	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 16W >= 600 Lumens	38W - 43W Halogen or Incandescent Lamp	5,110.00	0.0405	207	0.011	56.2	0.030	150.7	0.025	5.0	PSP-Business-Restaurant- Lighting_Interior_General	-27
Lighting - Schools	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 16W >= 600 Lumens	38W - 43W Halogen or Incandescent Lamp	2,596.00	0.0405	105	0.011	28.6	0.030	76.6	0.004	10.0	PSP-Business-Schools- Lighting_Interior_General	-27
Lighting - University Colleges	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 16W >= 600 Lumens	38W - 43W Halogen or Incandescent Lamp	3255	0.0405	132	0.011	35.8	0.030	96.0	0.013	8.0	PSP-Business-University_Colleges- Lighting_Interior_General	-27
Lighting - Warehouse Wholesale	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 16W >= 600 Lumens	38W - 43W Halogen or Incandescent Lamp	3759	0.0405	152	0.011	41.3	0.030	110.9	0.022	7.0	PSP-Business-Warehouse_Wholesale- Lighting_Interior_General	-27
Lighting - Food Retail	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 20W >= 800 Lumens	43W - 60W Halogen or Incandescent Lamp	6074	0.0515	313	0.013	79.0	0.039	233.8	0.033	4.0	PSP-Business-Food_Retail- Lighting_Interior_General	-38
Lighting - Hospital	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 20W >= 800 Lumens	43W - 60W Halogen or Incandescent Lamp	5182	0.0515	267	0.013	67.4	0.039	199.5	0.027	5.0	PSP-Business-Hospital- Lighting_Interior_General	-38
Lighting - Large Hotel (Corridor/Lobby)	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 20W >= 800 Lumens	43W - 60W Halogen or Incandescent Lamp	7884	0.0515	406	0.013	102.5	0.039	303.5	0.037	3.0	PSP-Business-Large_Hotel- Lighting_Interior_General	-38
Lighting - Large Non-Food Retail	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 20W >= 800 Lumens	43W - 60W Halogen or Incandescent Lamp	4089	0.0515	211	0.013	53.2	0.039	157.4	0.023	6.0	PSP-Business-Large_Non_Food_Retail- Lighting_Interior_General	-38
Lighting - Large Office	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 20W >= 800 Lumens	43W - 60W Halogen or Incandescent Lamp	3610	0.0515	186	0.0130	46.9	0.039	139.0	0.025	7.0	PSP-Business-Large_Office- Lighting_Interior_General	-38
Lighting - Nursing Home	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 20W >= 800 Lumens	43W - 60W Halogen or Incandescent Lamp	4308	0.0515	222	0.013	56.0	0.039	165.9	0.025	6.0	PSP-Business-Nursing_Home- Lighting_Interior_General	-38
Lighting - Other Commercial Buildings	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 20W >= 800 Lumens	43W - 60W Halogen or Incandescent Lamp	2857	0.0515	147	0.013	37.1	0.039	110.0	0.017	9.0	PSP-Business- Other_Commercial_Buildings- Lighting_Interior_General	-38
Lighting - Other Non-Food Retail	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 20W >= 800 Lumens	43W - 60W Halogen or Incandescent Lamp	4089	0.0515	211	0.0130	53.2	0.039	157.4	0.029	6.0	PSP-Business-Other_Non_Food_Retail- Lighting_Interior_General	-38
Lighting - Restaurant	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 20W >= 800 Lumens	43W - 60W Halogen or Incandescent Lamp	5110	0.0515	263	0.0130	66.4	0.039	196.7	0.032	5.0	PSP-Business-Restaurant- Lighting_Interior_General	-38
Lighting - Schools	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 20W >= 800 Lumens	43W - 60W Halogen or Incandescent Lamp	2596	0.0515	134	0.0130	33.7	0.039	99.9	0.005	10.0	PSP-Business-Schools- Lighting_Interior_General	-38
Lighting - University Colleges	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 20W >= 800 Lumens	43W - 60W Halogen or Incandescent Lamp	3255	0.0515	168	0.0130	42.3	0.039	125.3	0.017	8.0	PSP-Business-University_Colleges- Lighting_Interior_General	-38



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPE RATING_HOURS	BASE_CASE_K W	BASE_CASE_K WH	CONSERVATION _CASE_KW	CONSERVATION CASE_KWH	FIRST_YEAR_DEMAND_S AVINGS	FIRST_YEAR_ENERGY_SA VINGS	PEAK_DEMAND_SA VINGS	EFFECTIVE_USEF UL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE COST
Lighting - Warehouse Wholesale	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 20W >= 800 Lumens	43W - 60W Halogen or Incandescent Lamp	3759	0.0515	194	0.0130	48.9	0.039	144.7	0.028	7.0	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	-38
Lighting - Food Retail	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 30W >= 1100 Lumens	60W - 80W Halogen or Incandescent Lamp	6074	0.07	425	0.018	106.295	0.053	318.9	0.045	4.0	PSP-Business-Food_Retail-Lighting_Interior_General	-139
Lighting - Hospital	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 30W >= 1100 Lumens	60W - 80W Halogen or Incandescent Lamp	5182	0.07	363	0.018	90.685	0.053	272.1	0.036	5.0	PSP-Business-Hospital-Lighting_Interior_General	-139
Lighting - Large Hotel (Corridor/Lobby)	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 30W >= 1100 Lumens	60W - 80W Halogen or Incandescent Lamp	7884	0.07	552	0.018	137.970	0.053	413.9	0.050	3.0	PSP-Business-Large_Hotel-Lighting_Interior_General	-139
Lighting - Large Non-Food Retail	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 30W >= 1100 Lumens	60W - 80W Halogen or Incandescent Lamp	4089	0.07	286	0.018	71.558	0.053	214.7	0.032	6.0	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	-139
Lighting - Large Office	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 30W >= 1100 Lumens	60W - 80W Halogen or Incandescent Lamp	3610	0.07	253	0.018	63.2	0.053	189.5	0.034	7.0	PSP-Business-Large_Office-Lighting_Interior_General	-139
Lighting - Nursing Home	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 30W >= 1100 Lumens	60W - 80W Halogen or Incandescent Lamp	4308	0.07	302	0.018	75.4	0.053	226.2	0.034	6.0	PSP-Business-Nursing_Home-Lighting_Interior_General	-139
Lighting - Other Commercial Buildings	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 30W >= 1100 Lumens	60W - 80W Halogen or Incandescent Lamp	2857	0.07	200	0.018	50.0	0.053	150.0	0.024	9.0	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	-139
Lighting - Other Non-Food Retail	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 30W >= 1100 Lumens	60W - 80W Halogen or Incandescent Lamp	4089	0.07	286	0.018	71.6	0.053	214.7	0.040	6.0	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	-139
Lighting - Restaurant	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 30W >= 1100 Lumens	60W - 80W Halogen or Incandescent Lamp	5110	0.07	358	0.018	89.4	0.053	268.3	0.044	5.0	PSP-Business-Restaurant-Lighting_Interior_General	-139
Lighting - Schools	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 30W >= 1100 Lumens	60W - 80W Halogen or Incandescent Lamp	2,596.00	0.07	182	0.018	45.4	0.053	136.3	0.007	10.0	PSP-Business-Schools-Lighting_Interior_General	-139
Lighting - University Colleges	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 30W >= 1100 Lumens	60W - 80W Halogen or Incandescent Lamp	3,255.00	0.07	228	0.018	57.0	0.053	170.9	0.023	8.0	PSP-Business-University_Colleges-Lighting_Interior_General	-139
Lighting - Warehouse Wholesale	LED REFLECTOR (FLOOD/SPOT) LAMP PIN & SCREW BASE	<= 30W >= 1100 Lumens	60W - 80W Halogen or Incandescent Lamp	3,759.00	0.07	263	0.018	65.8	0.053	197.3	0.039	7.0	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	-139
Agribusiness	LOW ENERGY LIVESTOCK WATERERS	300W maximum	1500W (Max) electric heated Waterers						0.850	2,383.0	0.000	10.0	PSP-Business-Commercial-Livestock_Waterer	920
Agribusiness	MILK SCROLL COMPRESSOR	New scroll compressor for milk cooling with minimum EER of 12	Old Reciprocating Compressor	2,920.00					2.314	6,759.0	0.772	15.0	PSP-Industrial-Agriculture-Other	540
Lighting - Hospital	NETWORKED LIGHTING CONTROLS	Enter the total area (ft2) of the facility where luminaires are being controlled by the Networked Lighting Control system.	No existing controls or basic lighting control systems.	5182	-	-	-	-	-	kWh=ft^2*2.56kW/h/ft^2	0.0001335kW/kWh	16.0	PSP-Business-Hospital-Lighting_Interior_General	\$2.28/ft^2



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)	NETWORKED LIGHTING CONTROLS	Enter the total area (ft2) of the facility where luminaires are being controlled by the Networked Lighting Control system.	No existing controls or basic lighting control systems.	7884	-	-	-	-	-	kWh=ft^2*2.78kWh/ft^2	0.0001208kWh/kWh	16.0	PSP-Business-Large_Hotel-Lighting_Interior_General	\$2.28/ft^2
Lighting - Large Non-Food Retail	NETWORKED LIGHTING CONTROLS	Enter the total area (ft2) of the facility where luminaires are being controlled by the Networked Lighting Control system.	No existing controls or basic lighting control systems.	4089	-	-	-	-	-	kWh=ft^2*1.91kWh/ft^2	0.0001483kWh/kWh	16.0	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	\$2.28/ft^2
Lighting - Large Office	NETWORKED LIGHTING CONTROLS	Enter the total area (ft2) of the facility where luminaires are being controlled by the Networked Lighting Control system.	No existing controls or basic lighting control systems.	3610	-	-	-	-	-	kWh=ft^2*1.80kWh/ft^2	0.0001786kWh/kWh	16.0	PSP-Business-Large_Office-Lighting_Interior_General	\$2.28/ft^2
Lighting - Nursing Home	NETWORKED LIGHTING CONTROLS	Enter the total area (ft2) of the facility where luminaires are being controlled by the Networked Lighting Control system.	No existing controls or basic lighting control systems.	4308	-	-	-	-	-	kWh=ft^2*1.24kWh/ft^2	0.0001512kWh/kWh	16.0	PSP-Business-Nursing_Home-Lighting_Interior_General	\$2.28/ft^2
Lighting - Other Commercial Buildings	NETWORKED LIGHTING CONTROLS	Enter the total area (ft2) of the facility where luminaires are being controlled by the Networked Lighting Control system.	No existing controls or basic lighting control systems.	2857	-	-	-	-	-	kWh=ft^2*0.82kWh/ft^2	0.0001578kWh/kWh	16.0	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	\$2.28/ft^2
Lighting - Other Non-Food Retail	NETWORKED LIGHTING CONTROLS	Enter the total area (ft2) of the facility where luminaires are being controlled by the Networked Lighting Control system.	No existing controls or basic lighting control systems.	4089	-	-	-	-	-	kWh=ft^2*1.91kWh/ft^2	0.0001844kWh/kWh	16.0	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	\$2.28/ft^2
Lighting - Restaurant	NETWORKED LIGHTING CONTROLS	Enter the total area (ft2) of the facility where luminaires are being controlled by the Networked Lighting Control system.	No existing controls or basic lighting control systems.	5110	-	-	-	-	-	kWh=ft^2*1.98kWh/ft^2	0.0001639kWh/kWh	16.0	PSP-Business-Restaurant-Lighting_Interior_General	\$2.28/ft^2
Lighting - Schools	NETWORKED LIGHTING CONTROLS	Enter the total area (ft2) of the facility where luminaires are being controlled by the Networked Lighting Control system.	No existing controls or basic lighting control systems.	2596	-	-	-	-	-	kWh=ft^2*1.00kWh/ft^2	0.0000503kWh/kWh	16.0	PSP-Business-Schools-Lighting_Interior_General	\$2.28/ft^2
Lighting - University Colleges	NETWORKED LIGHTING CONTROLS	Enter the total area (ft2) of the facility where luminaires are being controlled by the Networked Lighting Control system.	No existing controls or basic lighting control systems.	3255	-	-	-	-	-	kWh=ft^2*0.74kWh/ft^2	0.0001317kWh/kWh	16.0	PSP-Business-University_Colleges-Lighting_Interior_General	\$2.28/ft^2
Lighting - Warehouse Wholesale	NETWORKED LIGHTING CONTROLS	Enter the total area (ft2) of the facility where luminaires are being controlled by the Networked Lighting Control system.	No existing controls or basic lighting control systems.	3759	-	-	-	-	-	kWh=ft^2*2.77kWh/ft^2	0.0001965kWh/kWh	16.0	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	\$2.28/ft^2
Lighting -Food Retail	NETWORKED LIGHTING CONTROLS	Enter the total area (ft2) of the facility where luminaires are being controlled by the Networked Lighting Control system.	No existing controls or basic lighting control systems.	6074	-	-	-	-	-	kWh=ft^2*1.74kWh/ft^2	0.0001421kWh/kWh	16.0	PSP-Business-Food_Retail-Lighting_Interior_General	\$2.28/ft^2
Lighting - Food Retail	OCCUPANCY SENSORS	Ceiling/Wall Mounted	No Occupancy Sensor	6074	0.3	1822	0.300	0.000	0.000	747.1	0.106	5.0	PSP-Business-Food_Retail-Lighting_Interior_General	218
Lighting - Hospital	OCCUPANCY SENSORS	Ceiling/Wall Mounted	No Occupancy Sensor	5182	0.3	1555	0.300	0.000	0.000	637.4	0.085	6.0	PSP-Business-Hospital-Lighting_Interior_General	218
Lighting - Large Hotel (Corridor/Lobby)	OCCUPANCY SENSORS	Ceiling/Wall Mounted	No Occupancy Sensor	7884	0.3	2365	0.300	0.000	0.000	969.7	0.117	4.0	PSP-Business-Large_Hotel-Lighting_Interior_General	218
Lighting - Large Non-Food Retail	OCCUPANCY SENSORS	Ceiling/Wall Mounted	No Occupancy Sensor	4089	0.3	1227	0.300	0.000	0.000	502.9	0.075	8.0	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	218
Lighting - Large Office	OCCUPANCY SENSORS	Ceiling/Wall Mounted	No Occupancy Sensor	3610	0.3	1083	0.300	0.0	0.000	444.0	0.079	9.0	PSP-Business-Large_Office-Lighting_Interior_General	218



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPE RATING_HOURS	BASE_CASE_K W	BASE_CASE_K WH	CONSERVATION _CASE_KW	CONSERVATION CASE_KWH	FIRST_YEAR_DEMAND_S AVINGS	FIRST_YEAR_ENERGY_SA VINGS	PEAK_DEMAND_SA VINGS	EFFECTIVE_USEF UL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE COST
Lighting - Nursing Home	OCCUPANCY SENSORS	Ceiling/Wall Mounted	No Occupancy Sensor	4308	0.3	1292	0.300	0.0	0.000	529.9	0.080	7.0	PSP-Business-Nursing_Home-Lighting_Interior_General	218
Lighting - Other Commercial Buildings	OCCUPANCY SENSORS	Ceiling/Wall Mounted	No Occupancy Sensor	2857	0.3	857	0.300	0.0	0.000	351.4	0.055	11.0	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	218
Lighting - Other Non-Food Retail	OCCUPANCY SENSORS	Ceiling/Wall Mounted	No Occupancy Sensor	4089	0.3	1227	0.300	0.0	0.000	502.9	0.093	8.0	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	218
Lighting - Restaurant	OCCUPANCY SENSORS	Ceiling/Wall Mounted	No Occupancy Sensor	5110	0.3	1533	0.300	0.0	0.000	628.5	0.103	6.0	PSP-Business-Restaurant-Lighting_Interior_General	218
Lighting - Schools	OCCUPANCY SENSORS	Ceiling/Wall Mounted	No Occupancy Sensor	2,596.00	0.3	779	0.300	0.0	0.000	319.3	0.016	12.0	PSP-Business-Schools-Lighting_Interior_General	218
Lighting - University Colleges	OCCUPANCY SENSORS	Ceiling/Wall Mounted	No Occupancy Sensor	3,255.00	0.3	977	0.300	0.0	0.000	400.4	0.053	10.0	PSP-Business-University_Colleges-Lighting_Interior_General	218
Lighting - Warehouse Wholesale	OCCUPANCY SENSORS	Ceiling/Wall Mounted	No Occupancy Sensor	3,759.00	0.3	1128	0.300	0.0	0.000	462.4	0.091	9.0	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	218
Lighting - Food Retail	OCCUPANCY SENSORS	Fixture Mounted Occupancy Sensor (all other) for fixtures < 100W	No Occupancy Sensor	6,074.00	0.03	182	0.030	0.0	0.000	74.7	0.011	5.0	PSP-Business-Food_Retail-Lighting_Interior_General	357
Lighting - Hospital	OCCUPANCY SENSORS	Fixture Mounted Occupancy Sensor (all other) for fixtures < 100W	No Occupancy Sensor	5,182.00	0.03	155	0.030	0.0	0.000	63.7	0.009	6.0	PSP-Business-Hospital-Lighting_Interior_General	357
Lighting - Large Hotel (Corridor/Lobby)	OCCUPANCY SENSORS	Fixture Mounted Occupancy Sensor (all other) for fixtures < 100W	No Occupancy Sensor	7,884.00	0.03	237	0.030	0.0	0.000	97.0	0.012	4.0	PSP-Business-Large_Hotel-Lighting_Interior_General	357
Lighting - Large Non-Food Retail	OCCUPANCY SENSORS	Fixture Mounted Occupancy Sensor (all other) for fixtures < 100W	No Occupancy Sensor	4,089.00	0.03	123	0.030	0.0	0.000	50.3	0.007	8.0	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	357
Lighting - Large Office	OCCUPANCY SENSORS	Fixture Mounted Occupancy Sensor (all other) for fixtures < 100W	No Occupancy Sensor	3,610.00	0.03	108	0.030	0.0	0.000	44.4	0.008	9.0	PSP-Business-Large_Office-Lighting_Interior_General	357
Lighting - Nursing Home	OCCUPANCY SENSORS	Fixture Mounted Occupancy Sensor (all other) for fixtures < 100W	No Occupancy Sensor	4308	0.03	129	0.030	0.0	0.000	53.0	0.008	7.0	PSP-Business-Nursing_Home-Lighting_Interior_General	357
Lighting - Other Commercial Buildings	OCCUPANCY SENSORS	Fixture Mounted Occupancy Sensor (all other) for fixtures < 100W	No Occupancy Sensor	2857	0.03	86	0.030	0.0	0.000	35.1	0.006	11.0	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	357
Lighting - Other Non-Food Retail	OCCUPANCY SENSORS	Fixture Mounted Occupancy Sensor (all other) for fixtures < 100W	No Occupancy Sensor	4089	0.03	123	0.030	0.0	0.000	50.3	0.009	8.0	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	357
Lighting - Restaurant	OCCUPANCY SENSORS	Fixture Mounted Occupancy Sensor (all other) for fixtures < 100W	No Occupancy Sensor	5110	0.03	153	0.0300	0.0	0.000	62.9	0.010	6.0	PSP-Business-Restaurant-Lighting_Interior_General	357



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPE RATING_HOURS	BASE_CASE_K W	BASE_CASE_K WH	CONSERVATION _CASE_KW	CONSERVATION _CASE_KWH	FIRST_YEAR_DEMAND_S AVINGS	FIRST_YEAR_ENERGY_SA VINGS	PEAK_DEMAND_SA VINGS	EFFECTIVE_USEF UL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE COST
Lighting - Schools	OCCUPANCY SENSORS	Fixture Mounted Occupancy Sensor (all other) for fixtures < 100W	No Occupancy Sensor	2596	0.03	78	0.030	0.0	0.000	31.9	0.002	12.0	PSP-Business-Schools-Lighting_Interior_General	357
Lighting - University Colleges	OCCUPANCY SENSORS	Fixture Mounted Occupancy Sensor (all other) for fixtures < 100W	No Occupancy Sensor	3255	0.03	98	0.030	0.0	0.000	40.0	0.005	10.0	PSP-Business-University_Colleges-Lighting_Interior_General	357
Lighting - Warehouse Wholesale	OCCUPANCY SENSORS	Fixture Mounted Occupancy Sensor (all other) for fixtures < 100W	No Occupancy Sensor	3759	0.03	113	0.0300	0.0	0.000	46.2	0.009	9.0	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	357
Lighting - Food Retail	OCCUPANCY SENSORS	Fixture Mounted Occupancy Sensor (High Bay) for fixtures >= 100W	No Occupancy Sensor	6074	0.15	911	0.1500	0.0	0.000	373.6	0.053	5.0	PSP-Business-Food_Retail-Lighting_Interior_General	291
Lighting - Hospital	OCCUPANCY SENSORS	Fixture Mounted Occupancy Sensor (High Bay) for fixtures >= 100W	No Occupancy Sensor	5182	0.15	777	0.1500	0.0	0.000	318.7	0.043	6.0	PSP-Business-Hospital-Lighting_Interior_General	291
Lighting - Large Hotel (Corridor/Lobby)	OCCUPANCY SENSORS	Fixture Mounted Occupancy Sensor (High Bay) for fixtures >= 100W	No Occupancy Sensor	7884	0.15	1183	0.1500	0.0	0.000	484.9	0.059	4.0	PSP-Business-Large_Hotel-Lighting_Interior_General	291
Lighting - Large Non-Food Retail	OCCUPANCY SENSORS	Fixture Mounted Occupancy Sensor (High Bay) for fixtures >= 100W	No Occupancy Sensor	4089	0.15	613	0.1500	0.0	0.000	251.5	0.037	8.0	PSP-Business-Large_Non_Food_Retail-Lighting_Interior_General	291
Lighting - Large Office	OCCUPANCY SENSORS	Fixture Mounted Occupancy Sensor (High Bay) for fixtures >= 100W	No Occupancy Sensor	3610	0.15	542	0.150	0.000	0.000	222.0	0.040	9.0	PSP-Business-Large_Office-Lighting_Interior_General	291
Lighting - Nursing Home	OCCUPANCY SENSORS	Fixture Mounted Occupancy Sensor (High Bay) for fixtures >= 100W	No Occupancy Sensor	4308	0.15	646	0.150	0.000	0.000	264.9	0.040	7.0	PSP-Business-Nursing_Home-Lighting_Interior_General	291
Lighting - Other Commercial Buildings	OCCUPANCY SENSORS	Fixture Mounted Occupancy Sensor (High Bay) for fixtures >= 100W	No Occupancy Sensor	2857	0.15	429	0.150	0.000	0.000	175.7	0.028	11.0	PSP-Business-Other_Commercial_Buildings-Lighting_Interior_General	291
Lighting - Other Non-Food Retail	OCCUPANCY SENSORS	Fixture Mounted Occupancy Sensor (High Bay) for fixtures >= 100W	No Occupancy Sensor	4089	0.15	613	0.150	0.000	0.000	251.5	0.046	8.0	PSP-Business-Other_Non_Food_Retail-Lighting_Interior_General	291
Lighting - Restaurant	OCCUPANCY SENSORS	Fixture Mounted Occupancy Sensor (High Bay) for fixtures >= 100W	No Occupancy Sensor	5110	0.15	767	0.150	0.0	0.000	314.3	0.052	6.0	PSP-Business-Restaurant-Lighting_Interior_General	291
Lighting - Schools	OCCUPANCY SENSORS	Fixture Mounted Occupancy Sensor (High Bay) for fixtures >= 100W	No Occupancy Sensor	2596	0.15	389	0.150	0.0	0.000	159.7	0.008	12.0	PSP-Business-Schools-Lighting_Interior_General	291
Lighting - University Colleges	OCCUPANCY SENSORS	Fixture Mounted Occupancy Sensor (High Bay) for fixtures >= 100W	No Occupancy Sensor	3255	0.15	488	0.150	0.0	0.000	200.2	0.026	10.0	PSP-Business-University_Colleges-Lighting_Interior_General	291
Lighting - Warehouse Wholesale	OCCUPANCY SENSORS	Fixture Mounted Occupancy Sensor (High Bay) for fixtures >= 100W	No Occupancy Sensor	3759	0.15	564	0.150	0.0	0.000	231.2	0.045	9.0	PSP-Business-Warehouse_Wholesale-Lighting_Interior_General	291
Lighting - Food Retail	OCCUPANCY SENSORS	Switch Plate Mounted	No Occupancy Sensor	6074	0.2	1215	0.200	0.0	0.000	364.4	0.052	5.0	PSP-Business-Food_Retail-Lighting_Interior_General	120



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPE RATING_HOURS	BASE_CASE_K W	BASE_CASE_K WH	CONSERVATION _CASE_KW	CONSERVATION _CASE_KWH	FIRST_YEAR_DEMAND_S AVINGS	FIRST_YEAR_ENERGY_SA VINGS	PEAK_DEMAND_SA VINGS	EFFECTIVE_USEF UL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE COST
Lighting - Hospital	OCCUPANCY SENSORS	Switch Plate Mounted	No Occupancy Sensor	5,182.00	0.2	1036	0.200	0.0	0.000	310.9	0.042	6.0	PSP-Business-Hospital- Lighting_Interior_General	120
Lighting - Large Hotel (Corridor/Lobby)	OCCUPANCY SENSORS	Switch Plate Mounted	No Occupancy Sensor	7,884.00	0.2	1577	0.200	0.0	0.000	473.0	0.057	4.0	PSP-Business-Large_Hotel- Lighting_Interior_General	120
Lighting - Large Non-Food Retail	OCCUPANCY SENSORS	Switch Plate Mounted	No Occupancy Sensor	4,089.00	0.2	818	0.200	0.0	0.000	245.3	0.036	8.0	PSP-Business-Large_Non_Food_Retail- Lighting_Interior_General	120
Lighting - Large Office	OCCUPANCY SENSORS	Switch Plate Mounted	No Occupancy Sensor	3,610.00	0.2	722	0.200	0.0	0.000	216.6	0.039	9.0	PSP-Business-Large_Office- Lighting_Interior_General	120
Lighting - Nursing Home	OCCUPANCY SENSORS	Switch Plate Mounted	No Occupancy Sensor	4,308.00	0.2	862	0.200	0.0	0.000	258.5	0.039	7.0	PSP-Business-Nursing_Home- Lighting_Interior_General	120
Lighting - Other Commercial Buildings	OCCUPANCY SENSORS	Switch Plate Mounted	No Occupancy Sensor	2,857.00	0.2	571	0.200	0.0	0.000	171.4	0.027	11.0	PSP-Business- Other_Commercial_Buildings- Lighting_Interior_General	120
Lighting - Other Non-Food Retail	OCCUPANCY SENSORS	Switch Plate Mounted	No Occupancy Sensor	4,089.00	0.2	818	0.200	0.0	0.000	245.3	0.045	8.0	PSP-Business-Other_Non_Food_Retail- Lighting_Interior_General	120
Lighting - Restaurant	OCCUPANCY SENSORS	Switch Plate Mounted	No Occupancy Sensor	5,110.00	0.2	1022	0.200	0.0	0.000	306.6	0.050	6.0	PSP-Business-Restaurant- Lighting_Interior_General	120
Lighting - Schools	OCCUPANCY SENSORS	Switch Plate Mounted	No Occupancy Sensor	2596	0.2	519	0.200	0.0	0.000	155.8	0.008	12.0	PSP-Business-Schools- Lighting_Interior_General	120
Lighting - University Colleges	OCCUPANCY SENSORS	Switch Plate Mounted	No Occupancy Sensor	3255	0.2	651	0.200	0.0	0.000	195.3	0.026	10.0	PSP-Business-University_Colleges- Lighting_Interior_General	120
Lighting - Warehouse Wholesale	OCCUPANCY SENSORS	Switch Plate Mounted	No Occupancy Sensor	3759	0.2	752	0.200	0.0	0.000	225.5	0.044	9.0	PSP-Business-Warehouse_Wholesale- Lighting_Interior_General	120
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 1 HP, 1200 RPM, 83.5%	ODP Motor, 1 HP, 1200 RPM, 82.5%	4000	0.67818	2713	0.6701	2,680.2	0.008	32.5	0.004	15.0	EM&V-Commercial- HVAC_Fans_Pumps	421
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 1 HP, 1800 RPM, 86.5%	ODP Motor, 1 HP, 1800 RPM, 85.5%	4000	0.65439	2618	0.647	2,587.3	0.008	30.3	0.003	15.0	EM&V-Commercial- HVAC_Fans_Pumps	421
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 1 HP, 3600 RPM, 78%	ODP Motor, 1 HP, 3600 RPM, 77%	4000	0.72662	2906	0.717	2,869.2	0.009	37.3	0.004	15.0	EM&V-Commercial- HVAC_Fans_Pumps	421
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	0.97023	3881	0.9591	3,836.6	0.011	44.4	0.005	15.0	EM&V-Commercial- HVAC_Fans_Pumps	417
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	0.97023	3881	0.9591	3,836.6	0.011	44.4	0.005	15.0	EM&V-Commercial- HVAC_Fans_Pumps	417



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPE RATING_HOURS	BASE_CASE_K W	BASE_CASE_K WH	CONSERVATION _CASE_KW	CONSERVATION CASE_KWH	FIRST_YEAR_DEMAND_S AVINGS	FIRST_YEAR_ENERGY_SA VINGS	PEAK_DEMAND_SA VINGS	EFFECTIVE_USEF UL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE COST
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 1.5 HP, 3600 RPM, 85%	ODP Motor, 1.5 HP, 3600 RPM, 84%	4000	0.99911	3996	0.9874	3,949.4	0.012	47.0	0.005	15.0	EM&V-Commercial- HVAC_Fans_Pumps	417
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 2 HP, 1200 RPM, 88.5%	ODP Motor, 2 HP, 1200 RPM, 87.5%	4000	1.27886	5115	1.2644	5,057.6	0.014	57.8	0.006	15.0	EM&V-Commercial- HVAC_Fans_Pumps	494
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 2 HP, 1800 RPM, 87.5%	ODP Motor, 2 HP, 1800 RPM, 86.5%	4000	1.29364	5175	1.2789	5,115.4	0.015	59.1	0.007	15.0	EM&V-Commercial- HVAC_Fans_Pumps	494
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 2 HP, 3600 RPM, 86.5%	ODP Motor, 2 HP, 3600 RPM, 85.5%	4000	1.30877	5235	1.294	5174.566	0.015	60.5	0.007	15.0	EM&V-Commercial- HVAC_Fans_Pumps	494
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 3 HP, 1200 RPM, 89.5%	ODP Motor, 3 HP, 1200 RPM, 88.5%	4000	1.89661	7586	1.875	7501.676	0.021	84.8	0.009	15.0	EM&V-Commercial- HVAC_Fans_Pumps	535
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 3 HP, 1800 RPM, 90.5%	ODP Motor, 3 HP, 1800 RPM, 89.5%	4000	1.87542	7502	1.855	7418.785	0.021	82.9	0.009	15.0	EM&V-Commercial- HVAC_Fans_Pumps	535
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 3 HP, 3600 RPM, 86.5%	ODP Motor, 3 HP, 3600 RPM, 85.5%	4000	1.96316	7853	1.940	7761.850	0.023	90.8	0.010	15.0	EM&V-Commercial- HVAC_Fans_Pumps	535
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 5 HP, 1200 RPM, 90.5%	ODP Motor, 5 HP, 1200 RPM, 89.5%	4000	3.1257	12503	3.091	12,364.6	0.035	138.2	0.015	15.0	EM&V-Commercial- HVAC_Fans_Pumps	556
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 5 HP, 1800 RPM, 90.5%	ODP Motor, 5 HP, 1800 RPM, 89.5%	4000	3.1257	12503	3.091	12,364.6	0.035	138.2	0.015	15.0	EM&V-Commercial- HVAC_Fans_Pumps	556
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 5 HP, 3600 RPM, 87.5%	ODP Motor, 5 HP, 3600 RPM, 86.5%	4000	3.2341	12936	3.197	12,788.6	0.037	147.8	0.016	15.0	EM&V-Commercial- HVAC_Fans_Pumps	556
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	4.65216	18609	4.601	18,404.6	0.051	204.0	0.023	15.0	EM&V-Commercial- HVAC_Fans_Pumps	869
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 7.5 HP, 1800 RPM, 92%	ODP Motor, 7.5 HP, 1800 RPM, 91%	4000	4.61126	18445	4.561	18,244.6	0.050	200.5	0.022	15.0	EM&V-Commercial- HVAC_Fans_Pumps	869
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%	4,000.00	4.74153	18966	4.689	18,754.2	0.053	211.9	0.024	15.0	EM&V-Commercial- HVAC_Fans_Pumps	869
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 10 HP, 1200 RPM, 92.7%	ODP Motor, 10 HP, 1200 RPM, 91.7%	4,000.00	6.10142	24406	6.036	24,142.4	0.066	263.3	0.029	15.0	EM&V-Commercial- HVAC_Fans_Pumps	1006
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 10 HP, 1800 RPM, 92.7%	ODP Motor, 10 HP, 1800 RPM, 91.7%	4,000.00	6.10142	24406	6.036	24,142.4	0.066	263.3	0.029	15.0	EM&V-Commercial- HVAC_Fans_Pumps	1006
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 10 HP, 3600 RPM, 90.5%	ODP Motor, 10 HP, 3600 RPM, 89.5%	4,000.00	6.2514	25006	6.182	24,729.3	0.069	276.3	0.031	15.0	EM&V-Commercial- HVAC_Fans_Pumps	1006



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPE RATING_HOURS	BASE_CASE_K W	BASE_CASE_K WH	CONSERVATION _CASE_KW	CONSERVATION CASE_KWH	FIRST_YEAR_DEMAND_S AVINGS	FIRST_YEAR_ENERGY_SA VINGS	PEAK_DEMAND_SA VINGS	EFFECTIVE_USEF UL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE COST
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 15 HP, 1200 RPM, 92.7%	ODP Motor, 15 HP, 1200 RPM, 91.7%	4,000.00	9.15213	36609	9.053	36,213.6	0.099	394.9	0.044	15.0	EM&V-Commercial- HVAC_Fans_Pumps	1318
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 15 HP, 1800 RPM, 94%	ODP Motor, 15 HP, 1800 RPM, 93%	4,000.00	9.02419	36097	8.928	35,712.8	0.096	384.0	0.043	15.0	EM&V-Commercial- HVAC_Fans_Pumps	1318
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 15 HP, 3600 RPM, 91.2%	ODP Motor, 15 HP, 3600 RPM, 90.2%	4,000.00	9.30432	37217	9.202	36,809.2	0.102	408.1	0.045	15.0	EM&V-Commercial- HVAC_Fans_Pumps	1318
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 20 HP, 1200 RPM, 93.4%	ODP Motor, 20 HP, 1200 RPM, 92.4%	4,000.00	12.11039	48442	11.981	47,922.9	0.130	518.6	0.058	15.0	EM&V-Commercial- HVAC_Fans_Pumps	1607
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 20 HP, 1800 RPM, 94%	ODP Motor, 20 HP, 1800 RPM, 93%	4000	12.03226	48129	11.904	47,617.0	0.128	512.0	0.057	15.0	EM&V-Commercial- HVAC_Fans_Pumps	1607
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 20 HP, 3600 RPM, 92%	ODP Motor, 20 HP, 3600 RPM, 91%	4000	12.2967	49187	12.163	48,652.2	0.134	534.6	0.059	15.0	EM&V-Commercial- HVAC_Fans_Pumps	1607
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 25 HP, 1200 RPM, 94%	ODP Motor, 25 HP, 1200 RPM, 93%	4000	15.04032	60161	14.880	59,521.3	0.160	640.0	0.071	15.0	EM&V-Commercial- HVAC_Fans_Pumps	1968
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 25 HP, 1800 RPM, 94.6%	ODP Motor, 25 HP, 1800 RPM, 93.6%	4000	14.94391	59776	14.7859	59,143.8	0.158	631.9	0.070	15.0	EM&V-Commercial- HVAC_Fans_Pumps	1968
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 25 HP, 3600 RPM, 92.7%	ODP Motor, 25 HP, 3600 RPM, 91.7%	4000	15.25354	61014	15.089	60,356.0	0.165	658.2	0.073	15.0	EM&V-Commercial- HVAC_Fans_Pumps	1968
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 30 HP, 1200 RPM, 94.6%	ODP Motor, 30 HP, 1200 RPM, 93.6%	4000	17.93269	71731	17.743	70,972.5	0.190	758.3	0.084	15.0	EM&V-Commercial- HVAC_Fans_Pumps	2195
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 30 HP, 1800 RPM, 95.1%	ODP Motor, 30 HP, 1800 RPM, 94.1%	4000	17.83741	71350	17.6498	70,599.4	0.188	750.3	0.083	15.0	EM&V-Commercial- HVAC_Fans_Pumps	2195
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 30 HP, 3600 RPM, 92.7%	ODP Motor, 30 HP, 3600 RPM, 91.7%	4000	18.30425	73217	18.1068	72,427.2	0.197	789.8	0.088	15.0	EM&V-Commercial- HVAC_Fans_Pumps	2195
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 40 HP, 1200 RPM, 95.1%	ODP Motor, 40 HP, 1200 RPM, 94.1%	4000	23.78321	95133	23.5331	94,132.5	0.250	1,000.3	0.111	15.0	EM&V-Commercial- HVAC_Fans_Pumps	2834
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 40 HP, 1800 RPM, 95.1%	ODP Motor, 40 HP, 1800 RPM, 94.1%	4000	23.78321	95133	23.5331	94,132.5	0.250	1,000.3	0.111	15.0	EM&V-Commercial- HVAC_Fans_Pumps	2834
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 40 HP, 3600 RPM, 93.4%	ODP Motor, 40 HP, 3600 RPM, 92.4%	4000	24.22078	96883	23.9615	95,845.8	0.259	1,037.3	0.115	15.0	EM&V-Commercial- HVAC_Fans_Pumps	2834
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 50 HP, 1200 RPM, 95.1%	ODP Motor, 50 HP, 1200 RPM, 94.1%	4000	29.72901	118916	29.416	117,665.615	0.313	1250.4	0.139	15.0	EM&V-Commercial- HVAC_Fans_Pumps	3201



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPE RATING_HOURS	BASE_CASE_K W	BASE_CASE_K WH	CONSERVATION _CASE_KW	CONSERVATION _CASE_KWH	FIRST_YEAR_DEMAND_S AVINGS	FIRST_YEAR_ENERGY_SA VINGS	PEAK_DEMAND_SA VINGS	EFFECTIVE_USEF UL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE COST
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 50 HP, 1800 RPM, 95.5%	ODP Motor, 50 HP, 1800 RPM, 94.5%	4000	29.60317	118413	29.293	117172.775	0.310	1239.9	0.138	15.0	EM&V-Commercial- HVAC_Fans_Pumps	3201
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 50 HP, 3600 RPM, 94%	ODP Motor, 50 HP, 3600 RPM, 93%	4000	30.08065	120323	29.761	119042.553	0.320	1280.0	0.142	15.0	EM&V-Commercial- HVAC_Fans_Pumps	3201
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 60 HP, 1200 RPM, 95.5%	ODP Motor, 60 HP, 1200 RPM, 94.5%	4000	35.52381	142095	35.152	140607.330	0.372	1487.9	0.165	15.0	EM&V-Commercial- HVAC_Fans_Pumps	4286
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 60 HP, 1800 RPM, 96%	ODP Motor, 60 HP, 1800 RPM, 95%	4000	35.33684	141347	34.969	139875	0.368	1472	0.163	15.0	EM&V-Commercial- HVAC_Fans_Pumps	4286
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 60 HP, 3600 RPM, 94.6%	ODP Motor, 60 HP, 3600 RPM, 93.6%	4000	35.86538	143462	35	141945	0	1517	0.168	15.0	EM&V-Commercial- HVAC_Fans_Pumps	4286
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 75 HP, 1200 RPM, 95.5%	ODP Motor, 75 HP, 1200 RPM, 94.5%	4,000.00	44.40	177619	43.940	175759	0.465	1860	0.206	15.0	EM&V-Commercial- HVAC_Fans_Pumps	5068
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 75 HP, 1800 RPM, 96%	ODP Motor, 75 HP, 1800 RPM, 95%	4,000.00	44.17	176684	43.711	174844	0.460	1840	0.204	15.0	EM&V-Commercial- HVAC_Fans_Pumps	5068
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 75 HP, 3600 RPM, 94.6%	ODP Motor, 75 HP, 3600 RPM, 93.6%	4000	44.83173	179327	44.35782	177431.29	0.47391	1895.63344	0.210	15.0	EM&V-Commercial- HVAC_Fans_Pumps	5068
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 100 HP, 1200 RPM, 96%	ODP Motor, 100 HP, 1200 RPM, 95%	4000	58.89474	235579	58.28125	233125	0.61349	2453.94737	0.272	15.0	EM&V-Commercial- HVAC_Fans_Pumps	5956
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 100 HP, 1800 RPM, 96.4%	ODP Motor, 100 HP, 1800 RPM, 95.4%	4000	58.6478	234591	58.03942	232157.676	0.60838	2433.51862	0.270	15.0	EM&V-Commercial- HVAC_Fans_Pumps	5956
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 100 HP, 3600 RPM, 94.6%	ODP Motor, 100 HP, 3600 RPM, 93.6%	4000	59.77564	239103	59.14376	236575.053	0.63188	2527.51125	0.281	15.0	EM&V-Commercial- HVAC_Fans_Pumps	5956
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 125 HP, 1200 RPM, 96%	ODP Motor, 125 HP, 1200 RPM, 95%	4,000.00	73.62	294474	72.852	291406	0.767	3067	0.341	15.0	EM&V-Commercial- HVAC_Fans_Pumps	7689
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 125 HP, 1800 RPM, 96.4%	ODP Motor, 125 HP, 1800 RPM, 95.4%	4,000.00	73.31	293239	72.549	290197	0.760	3042	0.338	15.0	EM&V-Commercial- HVAC_Fans_Pumps	7689
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 125 HP, 3600 RPM, 95.1%	ODP Motor, 125 HP, 3600 RPM, 94.1%	4,000.00	74.32	297290	73.541	294164	0.782	3126	0.347	15.0	EM&V-Commercial- HVAC_Fans_Pumps	7689
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 150 HP, 1200 RPM, 96.4%	ODP Motor, 150 HP, 1200 RPM, 95.4%	4,000.00	87.97	351887	87.059	348237	0.913	3650	0.405	15.0	EM&V-Commercial- HVAC_Fans_Pumps	8023
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 150 HP, 1800 RPM, 96.8%	ODP Motor, 150 HP, 1800 RPM, 95.8%	4,000.00	87.60	350418	86.699	346798	0.905	3620	0.402	15.0	EM&V-Commercial- HVAC_Fans_Pumps	8023



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	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 150 HP, 3600 RPM, 95.1%	ODP Motor, 150 HP, 3600 RPM, 94.1%	4000	89.18704	356748	88.249	352,996.8	0.938	3,751.3	0.416	15.0	EM&V-Commercial-HVAC_Fans_Pumps	8023
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 200 HP, 1200 RPM, 96.4%	ODP Motor, 200 HP, 1200 RPM, 95.4%	4000	117.2956	469182	116.079	464,315.4	1.217	4,867.0	0.540	15.0	EM&V-Commercial-HVAC_Fans_Pumps	9924
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 200 HP, 1800 RPM, 96.8%	ODP Motor, 200 HP, 1800 RPM, 95.8%	4000	116.80585	467223	115.599	462,396.7	1.207	4,826.7	0.536	15.0	EM&V-Commercial-HVAC_Fans_Pumps	9924
Electric Auxiliary	OPEN DRIP-PROOF (ODP) MOTORS	ODP Motor, 200 HP, 3600 RPM, 96%	ODP Motor, 200 HP, 3600 RPM, 95%	4000	117.78947	471158	116.563	466,250.0	1.227	4,907.9	0.545	15.0	EM&V-Commercial-HVAC_Fans_Pumps	9924
Space Cooling and Heating	PACKAGED TERMINAL AIR CONDITIONERS (PTAC)	Cooling Capacity <7,000 Btu/h and EER >= 13.1	Cooling Capacity <7,000 Btu/h and EER = 11.9	650					0.064	34.8	0.011	15.0	PSP-Business-Commercial-Space_Cooling_&_Heating	20.3
Space Cooling and Heating	PACKAGED TERMINAL AIR CONDITIONERS (PTAC)	Cooling Capacity >15,000 Btu/h and EER >= 10.5	Cooling Capacity >15,000 Btu/h and EER = 9.5	650					0.144	93.3	0.028	15.0	PSP-Business-Commercial-Space_Cooling_&_Heating	43.75
Space Cooling and Heating	PACKAGED TERMINAL AIR CONDITIONERS (PTAC)	Cooling Capacity >=7,000 Btu/h & <=15,000 Btu/h and EER >= [14.0-(0.3 x Cap)] x 1.1	Cooling Capacity >=7,000 Btu/h & <=15,000 Btu/h and EER = 14.0-(0.3 x Cap)	650					0.093	60.7	0.018	15.0	PSP-Business-Commercial-Space_Cooling_&_Heating	32.08
Space Cooling and Heating	PACKAGED TERMINAL HEAT PUMPS (PTHP)	Cooling Capacity <7,000 Btu/h and EER >= 13.1 and COP >= 3.6	Cooling Capacity <7,000 Btu/h and EER = 11.9 and COP = 3.3	2650					0.064	147.8	0.045	15.0	PSP-Business-Commercial-Space_Cooling_&_Heating	20.3
Space Cooling and Heating	PACKAGED TERMINAL HEAT PUMPS (PTHP)	Cooling Capacity >15,000 Btu/h and EER >= 10.5 and COP >= 3.2	Cooling Capacity >15,000 Btu/h and EER = 9.5 and COP =2.9	2650					0.144	368.9	0.112	15.0	PSP-Business-Commercial-Space_Cooling_&_Heating	43.75
Space Cooling and Heating	PACKAGED TERMINAL HEAT PUMPS (PTHP)	Cooling Capacity >=7,000 Btu/h & <15,000 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 >=7,000 Btu/h & <15,000 Btu/h and EER = 14.0 - (0.3 x Cap) and COP = 3.7 - (0.052 x Cap)	2650					0.093	260.9	0.079	15.0	PSP-Business-Commercial-Space_Cooling_&_Heating	32.08
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	1.152	2,852.4	0.000	4,295.8	0.477	8.0	EM&V-Commercial-HVAC_Fans_Pumps	78
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	4,756.7	0.543	15.0	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	1247.4
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	9,513.3	1.087	15.0	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	2494.8
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	14,270.0	1.630	15.0	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	3742.2
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	19026.66667	2.173	15.0	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	4989.6
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	18600	2.124	15.0	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	6237



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPE RATING_HOURS	BASE_CASE_K W	BASE_CASE_K WH	CONSERVATION _CASE_KW	CONSERVATION _CASE_KWH	FIRST_YEAR_DEMAND_S AVINGS	FIRST_YEAR_ENERGY_SA VINGS	PEAK_DEMAND_SA VINGS	EFFECTIVE_USEF UL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE COST
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	37200	4.249	15.0	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	12474
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	55800	6.373	15.0	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	18711
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	74400	8.498	15.0	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	24948
Chillers	Process Chiller-Water Cooled Centrifugal	<75 Tons, <=0.610 kW/Ton FL	<75 Tons, <=0.610 kW/Ton FL	5700	-	-	-	-	KW=TONS* ΔFL	KWH=TONS*ΔFL *EFLH	KW=kWH* SPDF	20.0	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* ΔFL	KWH=TONS*ΔFL *EFLH	KW=kWH* SPDF	20.0	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* ΔFL	KWH=TONS*ΔFL *EFLH	KW=kWH* SPDF	20.0	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* ΔFL	KWH=TONS*ΔFL *EFLH	KW=kWH* SPDF	20.0	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* ΔFL	KWH=TONS*ΔFL *EFLH	KW=kWH* SPDF	20.0	EM&V-Commercial-Cooling	\$400/Ton
Chillers	Process Chiller-Water Cooled Positive Displacement	<75 Tons, <=0.750 kW/Ton FL	<75 Tons, <=0.750 kW/Ton FL	5700	-	-	-	-	KW=TONS* ΔFL	KWH=TONS*ΔFL *EFLH	KW=kWH* SPDF	20.0	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* ΔFL	KWH=TONS*ΔFL *EFLH	KW=kWH* SPDF	20.0	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* ΔFL	KWH=TONS*ΔFL *EFLH	KW=kWH* SPDF	20.0	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* ΔFL	KWH=TONS*ΔFL *EFLH	KW=kWH* SPDF	20.0	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* ΔFL	KWH=TONS*ΔFL *EFLH	KW=kWH* SPDF	20.0	EM&V-Commercial-Cooling	\$400/Ton
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	158	0.012	72.888	0.014	85.036	0.012	8.0	PSP-Business-Food_Retail-Lighting_Interior_General	236.42
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	0.029	176.146	0.012	72.888	0.010	8.0	PSP-Business-Food_Retail-Lighting_Interior_General	230.48
Compressed Air	REGENERATIVE DRYER WITH DEWPOINT CONTROL	0 to <200 CFM	Regenerative Dryer with Timer Controlled Regeneration	3920					0	6634.8	0.758	15.0	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	6623



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPE RATING_HOURS	BASE_CASE_K W	BASE_CASE_K WH	CONSERVATION _CASE_KW	CONSERVATION _CASE_KWH	FIRST_YEAR_DEMAND_S AVINGS	FIRST_YEAR_ENERGY_SA VINGS	PEAK_DEMAND_SA VINGS	EFFECTIVE_USEF UL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE COST
Compressed Air	REGENERATIVE DRYER WITH DEWPOINT CONTROL	>=200 to <400 CFM	Regenerative Dryer with Timer Controlled Regeneration	3920					0	16587	1.894	15.0	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	6623
Compressed Air	REGENERATIVE DRYER WITH DEWPOINT CONTROL	>=400 to <750 CFM	Regenerative Dryer with Timer Controlled Regeneration	3920					0	33174	3.789	15.0	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	6623
Space Cooling and Heating	ROOM AIR CONDITIONERS	8,000 to 13,999 Btu/h and CEER >= 12.0	8,000 to 13,999 Btu/h and CEER >= 10.9	200					0.13727	27.45474	0.019	10.0	EM&V-Commercial-Cooling	25
Space Cooling and Heating	ROOM AIR CONDITIONERS	14,000 to 19,999 Btu/h and CEER >= 11.8	14,000 to 19,999 Btu/h and CEER >= 10.7	200					0.21188	42.37697	0.030	10.0	EM&V-Commercial-Cooling	25
Space Cooling and Heating	ROOM AIR CONDITIONERS	20,000 to 27,999 Btu/h and CEER >= 10.3	20,000 to 27,999 Btu/h and CEER >= 9.4	200					0.25905	51.35086	0.036	10.0	EM&V-Commercial-Cooling	25
Space Cooling and Heating	ROOM AIR CONDITIONERS	<8,000 Btu/h and CEER >= 12.1	<8,000 Btu/h and CEER >= 11.0	200					0.0795	15.89922	0.011	10.0	EM&V-Commercial-Cooling	25
Space Cooling and Heating	ROOM AIR CONDITIONERS	>=28,000 Btu/h and CEER >= 9.9	>=28,000 Btu/h and CEER >= 9.0	200					0.29857	59.71431	0.042	10.0	EM&V-Commercial-Cooling	25
Agribusiness	SINGLE CREEP HEAT PAD	Up to 100W maximum	175W Heat Lamp	6900	0.175	1208	0.085	586.5	0.09	621	0.000	10.0	EM&V-Commercial-Creep_Heat_Pad	70
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	15.0	EM&V-Commercial-HVAC_Fans_Pumps	9880
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	0.67818	3352	0.67006	3311.43593	0.00812	40.13862	0.004	15.0	EM&V-Commercial-HVAC_Fans_Pumps	421
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	0.65439	3234	0.64682	3196.58844	0.00757	37.387	0.004	15.0	EM&V-Commercial-HVAC_Fans_Pumps	421
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 1 HP, 3600 RPM, 78%	TEFC Motor, 1 HP, 3600 RPM, 77%	4942	0.72662	3591	0.71731	3544.93462	0.00932	46.03811	0.005	15.0	EM&V-Commercial-HVAC_Fans_Pumps	421
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	0.97023	4795	0.95914	4740.084	0.01109	54.79866	0.006	15.0	EM&V-Commercial-HVAC_Fans_Pumps	417
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	0.97023	4795	0.95914	4740.084	0.01109	54.79866	0.006	15.0	EM&V-Commercial-HVAC_Fans_Pumps	417
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	0.99911	4938	0.98735	4879.49824	0.01175	58.08926	0.006	15.0	EM&V-Commercial-HVAC_Fans_Pumps	417
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	1.27886	6320	1.26441	6248.69831	0.01445	71.41369	0.008	15.0	EM&V-Commercial-HVAC_Fans_Pumps	494



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPE RATING_HOURS	BASE_CASE_K W	BASE_CASE_K WH	CONSERVATION _CASE_KW	CONSERVATION _CASE_KWH	FIRST_YEAR_DEMAND_S AVINGS	FIRST_YEAR_ENERGY_SA VINGS	PEAK_DEMAND_SA VINGS	EFFECTIVE_USEF UL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE COST
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	1.29364	6393	1.27886	6320.112	0.01478	73.06488	0.008	15.0	EM&V-Commercial-HVAC_Fans_Pumps	494
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	1.30877	6468	1.29364	6393.17688	0.01513	74.774	0.008	15.0	EM&V-Commercial-HVAC_Fans_Pumps	494
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	1.89661	9373	1.87542	9268.32067	0.02119	104.72679	0.012	15.0	EM&V-Commercial-HVAC_Fans_Pumps	535
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	1.87542	9268	1.8547	9165.90829	0.02072	102.41238	0.011	15.0	EM&V-Commercial-HVAC_Fans_Pumps	535
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	1.96316	9702	1.94046	9589.76532	0.0227	112.161	0.012	15.0	EM&V-Commercial-HVAC_Fans_Pumps	535
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	3.1257	15447	3.09116	15276.5138	0.03454	170.68731	0.019	15.0	EM&V-Commercial-HVAC_Fans_Pumps	556
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	3.1257	15447	3.09116	15276.5138	0.03454	170.68731	0.019	15.0	EM&V-Commercial-HVAC_Fans_Pumps	556
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	3.2341	15983	3.19714	15800.28	0.03696	182.6622	0.020	15.0	EM&V-Commercial-HVAC_Fans_Pumps	556
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	4.65216	22991	4.60115	22738.8898	0.05101	252.09412	0.028	15.0	EM&V-Commercial-HVAC_Fans_Pumps	869
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	4.61126	22789	4.56114	22541.1603	0.05012	247.70506	0.028	15.0	EM&V-Commercial-HVAC_Fans_Pumps	869
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	4.74153	23433	4.68855	23170.8017	0.05298	261.81697	0.029	15.0	EM&V-Commercial-HVAC_Fans_Pumps	869
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 10 HP, 1200 RPM, 92.0%	TEFC Motor, 10 HP, 1200 RPM, 91%	4942	6.10142	30153	6.0356	29827.9288	0.06582	325.2773	0.036	15.0	EM&V-Commercial-HVAC_Fans_Pumps	1006
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	6.10142	30153	6.0356	29827.9288	0.06582	325.2773	0.036	15.0	EM&V-Commercial-HVAC_Fans_Pumps	1006
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	6.2514	30894	6.18232	30553.0276	0.06908	341.37461	0.038	15.0	EM&V-Commercial-HVAC_Fans_Pumps	1006
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	9.15213	45230	9.0534	44741.8932	0.09873	487.91596	0.054	15.0	EM&V-Commercial-HVAC_Fans_Pumps	1318
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	9.02419	44598	8.92819	44123.1223	0.096	474.44218	0.053	15.0	EM&V-Commercial-HVAC_Fans_Pumps	1318



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPE RATING_HOURS	BASE_CASE_K W	BASE_CASE_K WH	CONSERVATION _CASE_KW	CONSERVATION CASE_KWH	FIRST_YEAR_DEMAND_S AVINGS	FIRST_YEAR_ENERGY_SA VINGS	PEAK_DEMAND_SA VINGS	EFFECTIVE_USEF UL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE COST
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 15 HP, 3600 RPM, 92.0%	TEFC Motor, 15 HP, 3600 RPM, 91%	4942	9.30432	45982	9.2023	45477.7796	0.10202	504.18824	0.056	15.0	EM&V-Commercial-HVAC_Fans_Pumps	1318
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	12.11039	59850	11.98073	59208.758	0.12966	640.78742	0.071	15.0	EM&V-Commercial-HVAC_Fans_Pumps	1607
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 20 HP, 1800 RPM, 94%	TEFC Motor, 20 HP, 1800 RPM, 93%	4942	12.03226	59463	11.90426	58830.8298	0.128	632.58957	0.070	15.0	EM&V-Commercial-HVAC_Fans_Pumps	1607
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 20 HP, 3600 RPM, 92%	TEFC Motor, 20 HP, 3600 RPM, 91%	4942	12.2967	60770	12.16304	60109.7609	0.13366	660.54682	0.073	15.0	EM&V-Commercial-HVAC_Fans_Pumps	1607
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 25 HP, 1200 RPM, 94%	TEFC Motor, 25 HP, 1200 RPM, 93%	4942	15.04032	74329	14.88032	73538.5372	0.16	790.73696	0.088	15.0	EM&V-Commercial-HVAC_Fans_Pumps	1968
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	14.94391	73853	14.78594	73072.1195	0.15797	780.68504	0.087	15.0	EM&V-Commercial-HVAC_Fans_Pumps	1968
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	15.25354	75383	15.089	74569.822	0.16455	813.19326	0.090	15.0	EM&V-Commercial-HVAC_Fans_Pumps	1968
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 30 HP, 1200 RPM, 94%	TEFC Motor, 30 HP, 1200 RPM, 93%	4942	17.93269	88623	17.74313	87686.5433	0.18956	936.82204	0.104	15.0	EM&V-Commercial-HVAC_Fans_Pumps	2195
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	17.83741	88152	17.64984	87225.5205	0.18756	926.94496	0.103	15.0	EM&V-Commercial-HVAC_Fans_Pumps	2195
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	18.30425	90460	18.1068	89483.7864	0.19746	975.83191	0.108	15.0	EM&V-Commercial-HVAC_Fans_Pumps	2195
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	23.78321	117537	23.53312	116300.694	0.25009	1235.92661	0.137	15.0	EM&V-Commercial-HVAC_Fans_Pumps	2834
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	23.78321	117537	23.53312	116300.694	0.25009	1235.92661	0.137	15.0	EM&V-Commercial-HVAC_Fans_Pumps	2834
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	24.22078	119699	23.96146	118417.516	0.25932	1281.57485	0.142	15.0	EM&V-Commercial-HVAC_Fans_Pumps	2834
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	29.72901	146921	29.4164	145375.868	0.31261	1544.90826	0.172	15.0	EM&V-Commercial-HVAC_Fans_Pumps	3201
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	29.60317	146299	29.29319	144766.963	0.30998	1531.92554	0.170	15.0	EM&V-Commercial-HVAC_Fans_Pumps	3201
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 50 HP, 3600 RPM, 94%	TEFC Motor, 50 HP, 3600 RPM, 93%	4942	30.08065	148659	29.76064	147077.074	0.32001	1581.47392	0.176	15.0	EM&V-Commercial-HVAC_Fans_Pumps	3201



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPE RATING_HOURS	BASE_CASE_K W	BASE_CASE_K WH	CONSERVATION _CASE_KW	CONSERVATION _CASE_KWH	FIRST_YEAR_DEMAND_S AVINGS	FIRST_YEAR_ENERGY_SA VINGS	PEAK_DEMAND_SA VINGS	EFFECTIVE_USEF UL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE COST
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	35.52381	175559	35.15183	173720.356	0.37198	1838.31065	0.204	15.0	EM&V-Commercial-HVAC_Fans_Pumps	4286
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 60 HP, 1800 RPM, 96%	TEFC Motor, 60 HP, 1800 RPM, 95%	4942	35.33684	174635	34.96875	172815.563	0.36809	1819.11118	0.202	15.0	EM&V-Commercial-HVAC_Fans_Pumps	4286
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	35.86538	177247	35.48626	175373.087	0.37913	1873.64409	0.208	15.0	EM&V-Commercial-HVAC_Fans_Pumps	4286
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	44.40476	219448	43.93979	217150.445	0.46497	2297.88831	0.255	15.0	EM&V-Commercial-HVAC_Fans_Pumps	5068
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 75 HP, 1800 RPM, 96.4%	TEFC Motor, 75 HP, 1800 RPM, 95%	4942	44.17105	218293	43.71094	216019.453	0.46012	2273.88898	0.252	15.0	EM&V-Commercial-HVAC_Fans_Pumps	5068
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	44.83173	221558	44.35782	219216.358	0.47391	2342.05511	0.260	15.0	EM&V-Commercial-HVAC_Fans_Pumps	5068
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 100 HP, 1200 RPM, 96%	TEFC Motor, 100 HP, 1200 RPM, 95%	4942	58.89474	291058	58.28125	288025.938	0.61349	3031.85197	0.337	15.0	EM&V-Commercial-HVAC_Fans_Pumps	5956
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	58.6478	289837	58.03942	286830.809	0.60838	3006.61226	0.334	15.0	EM&V-Commercial-HVAC_Fans_Pumps	5956
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	59.77564	295411	59.14376	292288.478	0.63188	3122.74015	0.347	15.0	EM&V-Commercial-HVAC_Fans_Pumps	5956
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 125 HP, 1200 RPM, 96%	TEFC Motor, 125 HP, 1200 RPM, 95%	4942	73.61842	363822	72.85156	360032.422	0.76686	3789.81497	0.421	15.0	EM&V-Commercial-HVAC_Fans_Pumps	7689
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	73.30975	362297	72.54927	358538.511	0.76047	3758.26532	0.417	15.0	EM&V-Commercial-HVAC_Fans_Pumps	7689
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 125 HP, 3600 RPM, 96%	TEFC Motor, 125 HP, 3600 RPM, 95%	4942	74.32253	367302	73.54101	363439.669	0.78152	3862.27066	0.429	15.0	EM&V-Commercial-HVAC_Fans_Pumps	7689
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	87.9717	434756	87.05913	430246.214	0.91257	4509.91838	0.501	15.0	EM&V-Commercial-HVAC_Fans_Pumps	8023
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	87.60438	432941	86.69938	428468.337	0.905	4472.52961	0.497	15.0	EM&V-Commercial-HVAC_Fans_Pumps	8023
Electric Auxiliary	TOTALLY ENCLOSED FAN-COOLED (TEFC) MOTORS	TEFC Motor, 150 HP, 3600 RPM, 96%	TEFC Motor, 150 HP, 3600 RPM, 95%	4942	89.18704	440762	88.24921	436127.603	0.93782	4634.72479	0.515	15.0	EM&V-Commercial-HVAC_Fans_Pumps	8023
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	117.2956	579675	116.07884	573661.618	1.21676	6013.22451	0.668	15.0	EM&V-Commercial-HVAC_Fans_Pumps	9924



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPE RATING_HOURS	BASE_CASE_K W	BASE_CASE_W H	CONSERVATION _CASE_KW	CONSERVATION _CASE_KWH	FIRST_YEAR_DEMAND_S AVINGS	FIRST_YEAR_ENERGY_SA VINGS	PEAK_DEMAND_SA VINGS	EFFECTIVE_USEF UL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE COST
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	116.80585	577254	115.59917	571291.116	1.20667	5963.37282	0.662	15.0	EM&V-Commercial-HVAC_Fans_Pumps	9924
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	117.78947	582116	116.5625	576051.875	1.22697	6063.70395	0.673	15.0	EM&V-Commercial-HVAC_Fans_Pumps	9924
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					0.33042	2114.74133	0.643	15.0	PSP-Business-Commercial-Space_Cooling_&_Heating	1620
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					0.33042	2114.74133	0.643	15.0	PSP-Business-Commercial-Space_Cooling_&_Heating	1620
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					0.75682	1467.24032	0.446	15.0	PSP-Business-Commercial-Space_Cooling_&_Heating	5040
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					0.75682	1467.24032	0.446	15.0	PSP-Business-Commercial-Space_Cooling_&_Heating	5040
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					1.48233	2166.19197	0.658	15.0	PSP-Business-Commercial-Space_Cooling_&_Heating	9390
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					1.48233	2166.19197	0.658	15.0	PSP-Business-Commercial-Space_Cooling_&_Heating	9390
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					4.32767	6278.95475	1.909	15.0	PSP-Business-Commercial-Space_Cooling_&_Heating	24990
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					4.32767	6278.95475	1.909	15.0	PSP-Business-Commercial-Space_Cooling_&_Heating	24990
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					0.49321	295.92819	0.217	15.0	EM&V-Commercial-Cooling	357.21
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					0.58712	352.27273	0.258	15.0	EM&V-Commercial-Cooling	548.57
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					0.56718	340.3103	0.250	15.0	EM&V-Commercial-Cooling	548.57
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					0.49321	295.92819	0.217	15.0	EM&V-Commercial-Cooling	357.21
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					0.58712	352.27273	0.258	15.0	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					0.56718	340.3103	0.250	15.0	EM&V-Commercial-Cooling	548.57



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPE RATING_HOURS	BASE_CASE_K W	BASE_CASE_K WH	CONSERVATION _CASE_KW	CONSERVATION _CASE_KWH	FIRST_YEAR_DEMAND_S AVINGS	FIRST_YEAR_ENERGY_SA VINGS	PEAK_DEMAND_SA VINGS	EFFECTIVE_USEF UL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE COST
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					5.4902	3294.11765	2.415	15.0	EM&V-Commercial-Cooling	1615.95
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					5.27359	3164.15543	2.320	15.0	EM&V-Commercial-Cooling	1615.95
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					0.85227	511.36364	0.375	15.0	EM&V-Commercial-Cooling	797.34
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					0.82333	493.99883	0.362	15.0	EM&V-Commercial-Cooling	797.34
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					1.73611	1041.66667	0.764	15.0	EM&V-Commercial-Cooling	1328.91
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					1.6766	1005.96125	0.738	15.0	EM&V-Commercial-Cooling	1328.91
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					3.8506	2310.35811	1.694	15.0	EM&V-Commercial-Cooling	1064.47
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					3.7037	2222.22222	1.629	15.0	EM&V-Commercial-Cooling	1064.47
Electric Auxiliary	VARIABLE FREQUENCY DRIVE (VFD)	Motor Size: 1 HP, 66% Load Factor	No VFD installed, Motor is at 75% Load Factor	4000					0.25	1007	0.112	15.0	EM&V-Commercial-HVAC_Fans_Pumps	2255
Electric Auxiliary	VARIABLE FREQUENCY DRIVE (VFD)	Motor Size: 1.5 HP, 66% Load Factor	No VFD installed, Motor is at 75% Load Factor	4000					0.37	1493	0.166	15.0	EM&V-Commercial-HVAC_Fans_Pumps	2294
Electric Auxiliary	VARIABLE FREQUENCY DRIVE (VFD)	Motor Size: 2 HP, 66% Load Factor	No VFD installed, Motor is at 75% Load Factor	4000					0.5	1991	0.221	15.0	EM&V-Commercial-HVAC_Fans_Pumps	2332
Electric Auxiliary	VARIABLE FREQUENCY DRIVE (VFD)	Motor Size: 3 HP, 66% Load Factor	No VFD installed, Motor is at 75% Load Factor	4000					0.72	2887	0.321	15.0	EM&V-Commercial-HVAC_Fans_Pumps	2409
Electric Auxiliary	VARIABLE FREQUENCY DRIVE (VFD)	Motor Size: 5 HP, 66% Load Factor	No VFD installed, Motor is at 75% Load Factor	4000					1.2	4811	0.534	15.0	EM&V-Commercial-HVAC_Fans_Pumps	2417
Electric Auxiliary	VARIABLE FREQUENCY DRIVE (VFD)	Motor Size: 7.5 HP, 66% Load Factor	No VFD installed, Motor is at 75% Load Factor	4000					1.77	7098	0.788	15.0	EM&V-Commercial-HVAC_Fans_Pumps	2755
Electric Auxiliary	VARIABLE FREQUENCY DRIVE (VFD)	Motor Size: 10 HP, 66% Load Factor	No VFD installed, Motor is at 75% Load Factor	4000					2.35	9391	1.043	15.0	EM&V-Commercial-HVAC_Fans_Pumps	2947
Electric Auxiliary	VARIABLE FREQUENCY DRIVE (VFD)	Motor Size: 15 HP, 66% Load Factor	No VFD installed, Motor is at 75% Load Factor	4000					3.47	13890	1.542	15.0	EM&V-Commercial-HVAC_Fans_Pumps	3335



END_USE	CONSERVATION_MEASURE_NAME	DESCRIPTION	BASE_MEASURE	ASSUMED_ANNUAL_OPE RATING_HOURS	BASE_CASE_K W	BASE_CASE_K WH	CONSERVATION _CASE_KW	CONSERVATION _CASE_KWH	FIRST_YEAR_DEMAND_S AVINGS	FIRST_YEAR_ENERGY_SA VINGS	PEAK_DEMAND_SA VINGS	EFFECTIVE_USEF UL_LIFE	END_USE_LOAD_PROFILE	INCREMENTAL_LIFE_CYCLE COST
Electric Auxiliary	VARIABLE FREQUENCY DRIVE (VFD)	Motor Size: 20 HP, 66% Load Factor	No VFD installed, Motor is at 75% Load Factor	4000					4.63	18520	2.056	15.0	EM&V-Commercial-HVAC_Fans_Pumps	3788
Electric Auxiliary	VARIABLE FREQUENCY DRIVE (VFD)	Motor Size: 25 HP, 66% Load Factor	No VFD installed, Motor is at 75% Load Factor	4000					5.75	23002	2.554	15.0	EM&V-Commercial-HVAC_Fans_Pumps	4242
Electric Auxiliary	VARIABLE FREQUENCY DRIVE (VFD)	Motor Size: 30 HP, 66% Load Factor	No VFD installed, Motor is at 75% Load Factor	4000					6.86	27455	3.048	15.0	EM&V-Commercial-HVAC_Fans_Pumps	4484
Electric Auxiliary	VARIABLE FREQUENCY DRIVE (VFD)	Motor Size: 40 HP, 66% Load Factor	No VFD installed, Motor is at 75% Load Factor	4000					9.15	36607	4.064	15.0	EM&V-Commercial-HVAC_Fans_Pumps	5252
Electric Auxiliary	VARIABLE FREQUENCY DRIVE (VFD)	Motor Size: 50 HP, 66% Load Factor	No VFD installed, Motor is at 75% Load Factor	4000					11.39	45565	5.059	15.0	EM&V-Commercial-HVAC_Fans_Pumps	6136
Electric Auxiliary	VARIABLE FREQUENCY DRIVE (VFD)	Motor Size: 60 HP, 66% Load Factor	No VFD installed, Motor is at 75% Load Factor	4000					13.6	54390	6.039	15.0	EM&V-Commercial-HVAC_Fans_Pumps	6789
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	15.0	EM&V-Commercial-HVAC_Fans_Pumps	7826
Electric Auxiliary	VARIABLE FREQUENCY DRIVE (VFD)	Motor Size: 100 HP, 66% Load Factor	No VFD installed, Motor is at 75% Load Factor	4000					22.57	90271	10.022	15.0	EM&V-Commercial-HVAC_Fans_Pumps	9863
Electric Auxiliary	VARIABLE FREQUENCY DRIVE (VFD)	Motor Size: 125 HP, 66% Load Factor	No VFD Installed, Motor is at 75% Load Factor	4000					28.21	112840	12.530	15.0	EM&V-Commercial-HVAC_Fans_Pumps	11780
Electric Auxiliary	VARIABLE FREQUENCY DRIVE (VFD)	Motor Size: 150 HP, 66% Load Factor	No VFD Installed, Motor is at 75% Load Factor	4000					33.71	134840	14.970	15.0	EM&V-Commercial-HVAC_Fans_Pumps	13700
Electric Auxiliary	VARIABLE FREQUENCY DRIVE (VFD)	Motor Size: 200 HP, 66% Load Factor	No VFD Installed, Motor is at 75% Load Factor	4000					44.95	179790	19.960	15.0	EM&V-Commercial-HVAC_Fans_Pumps	17540
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*4,414 kWh/HP	kW=kWh *SPDF	15.0	Custom-Business-Cold Water_Booster_Pumps	\$1672/HP
Compressed Air	ZERO LOSS DRAIN	Zero Loss Drain	Time controlled moisture drain	3920					0.308	1206	0.138	10.0	PSP-Industrial-Miscellaneous_Industrial-Compressed_Air	253.16