

Scott County Admin Center

APPENDIX

Calculation Details

Fixture Information				Lamp Information		
Location	Fixture Type	Qty	Annual Op. Hours	Lamp Type	Lamps/ Fixture	Lamp Watt
F15	CN: Can	75	3,120	CFL	2	18
F17	Cl: Cove / Indirect	24	3,120	CFL	1	13
F6	IS4: Industrial Strip 4'	10	3,120	Fluorescent	2	32
F23	OTH: Other	18	3,120	CFL	2	18
F24	OTH: Other	8	4,380	HPS	1	70
F25	OTH: Other	4	4,380	HPS	1	70
F28	OTH: Other	2	4,380	MH	1	250
F10	T1x4: Troffer 1'x4'	36	3,120	Fluorescent	2	32
F6	IS4: Industrial Strip 4'	30	3,120	Fluorescent	2	32
F12	T2x4: Troffer 2'x4'	26	3,120	Fluorescent	2	32
F2	T2x4: Troffer 2'x4'	39	3,120	Fluorescent	2	32
F3	T2x4: Troffer 2'x4'	48	3,120	Fluorescent	3	32

what would you have?

Fixture Information				Lamp Information		
Location	Fixture Type	Qty	Annual Op. Hours	Lamp Type	Lamps/Fixture	Lamp Watt
F18	OTH: Other	2	3,120	Fluorescent	2	32
F20	CN: Can	10	3,120	Incandescent	1	150
F5	CN: Can	47	3,120	CFL	2	26
F19	T1x4: Troffer 1'x4'	12	3,120	Fluorescent	2	25
F21	IS4: Industrial Strip 4'	12	3,120	Fluorescent	2	32
F16	OTH: Other	9	3,120	Halogen	1	35
F7	IS4: Industrial Strip 4'	4	3,120	Fluorescent	2	25
F1	EX: Exit Sign	6	3,120	LED	1	
F11	T2x2: Troffer 2'x2'	1	3,120	Fluorescent	2	17
F14	T2x4: Troffer 2'x4'	4	3,120	Fluorescent	1	32
F22	CN: Can	8	4,380	HPS	1	70
F4	T2x4: Troffer 2'x4'	12	3,120	Fluorescent	4	32
F3	T2x4: Troffer 2'x4'	94	3,120	Fluorescent	3	32
F12	T2x4: Troffer 2'x4'	16	3,120	Fluorescent	2	32

Fixture Information				Lamp Information		
Location	Fixture Type	Qty	Annual Op. Hours	Lamp Type	Lamps/Fixture	Lamp Watt
F9	T2x4: Troffer 2'x4'	8	3,120	Fluorescent	3	32
F2	T2x4: Troffer 2'x4'	16	3,120	Fluorescent	2	32
F15	CN: Can	3	3,120	CFL	2	18
F6	IS4: Industrial Strip 4'	71	3,120	Fluorescent	2	32
F8	IS4: Industrial Strip 2'	1	3,120	Fluorescent	2	17
F7	IS4: Industrial Strip 3'	1	3,120	Fluorescent	2	25
F5	CN: Can	3	3,120	CFL	2	26
F10	T1x4: Troffer 1'x4'	9	3,120	Fluorescent	2	32
F11	T1x4: Troffer 1'x4'	1	3,120	Fluorescent	2	17
F1	EX: Exit Sign	11	3,120	LED	1	
F16	OTH: Other	4	3,120	Halogen	1	35
F13	T2x4: Troffer 2'x4'	2	3,120	Fluorescent	3	32
F4	T2x4: Troffer 2'x4'	18	3,120	Fluorescent	4	32
F14	T2x4: Troffer 2'x4'	7	3,120	Fluorescent	4	32

Fixture Information				Lamp Information		
Location	Fixture Type	Qty	Annual Op. Hours	Lamp Type	Lamps/Fixture	Lamp Watt
F3	T2x4: Troffer 2'x4'	124	3,120	Fluorescent	3	32
F13	T2x4: Troffer 2'x4'	8	3,120	Fluorescent	3	32
F2	T2x4: Troffer 2'x4'	2	3,120	Fluorescent	2	32
F12	T2x4: Troffer 2'x4'	9	3,120	Fluorescent	2	32
F6	IS4: Industrial Strip 4'	83	3,120	Fluorescent	2	32
F7	IS4: Industrial Strip 3'	1	3,120	Fluorescent	2	25
F1	EX: Exit Sign	8	3,120	LED	1	
F16	OTH: Other	6	3,120	Halogen	1	35
F11	T2x2: Troffer 2'x2'	4	3,120	Fluorescent	2	17
F8	IS4: Industrial Strip 2'	1	3,120	Fluorescent	2	17
F5	CN: Can	3	3,120	CFL	2	26
F15	CN: Can	2	3,120	CFL	2	18
F3	T2x4: Troffer 2'x4'	71	3,120	Fluorescent	3	32
F15	CN: Can	10	3,120	CFL	2	18

Fixture Information				Lamp Information		
Location	Fixture Type	Qty	Annual Op. Hours	Lamp Type	Lamps/ Fixture	Lamp Watt
F12	T2x4: Troffer 2'x4'	17	3,120	Fluorescent	2	32
F7	IS4: Industrial Strip 3'	5	3,120	Fluorescent	2	25
F6	IS4: Industrial Strip 4'	93	3,120	Fluorescent	2	32
F8	IS4: Industrial Strip 2'	2	3,120	Fluorescent	2	17
F1	EX: Exit Sign	6	3,120	LED	1	
F2	T2x4: Troffer 2'x4'	61	3,120	Fluorescent	2	32
F16	OTH: Other	5	3,120	Halogen	1	35
F10	T1x4: Troffer 1'x4'	4	3,120	Fluorescent	2	32
F4	T2x4: Troffer 2'x4'	3	3,120	Fluorescent	4	32
F18	OTH: Other	5	3,120	Fluorescent	2	32
F5	CN: Can	4	3,120	CFL	2	26
F9	T2x4: Troffer 2'x4'	8	3,120	Fluorescent	3	32
F4	T2x4: Troffer 2'x4'	22	3,120	Fluorescent	4	32
F3	T2x4: Troffer 2'x4'	132	3,120	Fluorescent	3	32

Fixture Information				Lamp Information		
Location	Fixture Type	Qty	Annual Op. Hours	Lamp Type	Lamps/ Fixture	Lamp Watt
F2	T2x4: Troffer 2'x4'	16	3,120	Fluorescent	2	32
F6	IS4: Industrial Strip 4'	44	3,120	Fluorescent	2	32
F7	IS4: Industrial Strip 3'	2	3,120	Fluorescent	2	25
F1	EX: Exit Sign	1	3,120	LED	1	
F15	CN: Can	13	3,120	CFL	2	18
F10	T1x4: Troffer 1'x4'	33	3,120	Fluorescent	2	32
F11	T2x2: Troffer 2'x2'	2	3,120	Fluorescent	2	17
F16	OTH: Other	5	3,120	Halogen	1	35
F5	CN: Can	5	3,120	CFL	2	26
F28	OTH: Other	10	4,380	MH	1	250
F19	T1x4: Troffer 1'x4'	1	3,120	Fluorescent	2	25
F21	IS4: Industrial Strip 4'	3	3,120	Fluorescent	2	32
F12	T2x4: Troffer 2'x4'	1	3,120	Fluorescent	2	32
F15	CN: Can	6	3,120	CFL	2	18

Fixture Information				Lamp Information		
Location	Fixture Type	Qty	Annual Op. Hours	Lamp Type	Lamps/ Fixture	Lamp Watt
F3	T2x4: Troffer 2'x4'	74	3,120	Fluorescent	3	32
F4	T2x4: Troffer 2'x4'	3	3,120	Fluorescent	4	32
F2	T2x4: Troffer 2'x4'	16	3,120	Fluorescent	2	32
F12	T2x4: Troffer 2'x4'	17	3,120	Fluorescent	2	32
F13	T2x4: Troffer 2'x4'	1	3,120	Fluorescent	3	32
F9	T2x4: Troffer 2'x4'	40	3,120	Fluorescent	3	32
F14	T2x4: Troffer 2'x4'	12	3,120	Fluorescent	4	32
F6	IS4: Industrial Strip 4'	85	3,120	Fluorescent	2	32
F7	IS4: Industrial Strip 3'	5	3,120	Fluorescent	2	25
F8	IS4: Industrial Strip 2'	2	3,120	Fluorescent	2	17
F15	CN: Can	33	3,120	CFL	2	18
F1	EX: Exit Sign	8	3,120	LED	1	
F10	T1x4: Troffer 1'x4'	4	3,120	Fluorescent	2	32
F16	OTH: Other	5	3,120	Halogen	1	35
F17	CI: Cove / Indirect	14	3,120	CFL	1	13

Abbreviations

°C	Degrees Celsius
°F	Degrees Fahrenheit
A	Amps
AFUE	Annual Fuel Utilization Efficiency
AHU	Air Handling Unit
ASHRAE	American Society of Heating, Refrigerating and Air-Conditioning Engineers
ASME	American Society of Mechanical Engineers
Btu	British thermal units
Btuh	Btu per hour
CBECS	Commercial Buildings Energy Consumption Survey
CFM	Cubic Feet per Minute
CHW	Chilled Water
COP	Coefficient of Performance
DHW	Domestic Hot Water
DOE	Department of Energy
EEM	Energy Efficiency Measure
EER	Energy Efficiency Ratio
EIA	Energy Information Administration
EPA	U.S. Environmental Protection Agency
ft	foot
ft ²	square foot
gpm	gallons per minute
HID	High-Intensity Discharge
hp	horsepower
hr	hour
HVAC	Heating, Ventilation and Air-Conditioning
HW	Hot Water
in Hg	inches of mercury (pressure)
in WC	inches of Water Column (pressure)
in	inch
IR	Infrared
kBtu	1 thousand Btu
Kvar	Kilovolt-amp reactive (power)
kW	kilowatt
kWh	kilowatt-hour
MBH	1 thousand Btu per Hour
min	minutes
MMBtu	1 million British thermal units
MW	Megawatt
NEMA	National Electrical Manufacturers Association
O&M	Operations and Maintenance
pph	pounds per hour steam
psi	pounds per square inch (pressure)
psig	pounds per square inch gage (gage pressure)
RTU	Rooftop Unit
SCFM	Standard Cubic Feet per Minute