

Xcel Energy Analysis Report

City of Grand Junction - Building A Municipal Operations Building



Exhibit 8: Lighting Details

Existing Fixture Type	Existing Fixture Wattage (Watts)	Fixture Quantity	Proposed Fixture Type	Proposed Fixture Wattage (Watts)	Annual Op. Hours	kWh Savings	Peak kW Savings	Estimated Energy Cost Savings (\$/yr)	Estimated Incentive (\$)	Estimated Project Cost (\$)	Effective Useful Life (yrs)	Simple Payback (yrs)
2-Lamp 32W T8 2'x4' Troffer Offices	59	69	DLC Qualified LED Replacement Lamp (UL Type B)	30	2,080	4,784	1.4	507	552	3,312	10	5.4
2-lamp 32W T8 4' Strip Fixture Offices	59	24	DLC Qualified LED Replacement Lamp (UL Type B)	30	2,080	1,692	0.5	179	192	1,152	10	5.4
4-Lamp 32W T8 4' Strip Fixture Traffic	117	8	DLC Qualified LED Replacement Lamp (UL Type B)	59	520	243	0.2	26	128	768	10	24.8
4-Lamp 32W T8 4' Strip Fixture Street Shop	117	24	DLC Qualified LED Replacement Lamp (UL Type B)	59	2,600	3,650	0.7	387	384	2,304	10	5.0
2-lamp 34W T12 4' Strip Fixture Mechanical Room	84	2	DLC Qualified LED Replacement Lamp (UL Type B)	21	520	66	0.1	7	16	96	10	11.5
1-lamp 32W T8 4' Strip Fixture Bathroom	32	2	DLC Qualified LED Replacement Lamp (UL Type B)	16	2,080	75	0.0	8	8	48	10	5.0
2-lamp 32W T8 4' Strip Fixture Water Shop	59	35	DLC Qualified LED Replacement Lamp (UL Type B)	30	2,600	2,685	0.5	284	280	1,680	10	4.9
4-lamp 40W T12 4' Strip Fixture Large Quonset Hut	175	8	DLC Qualified LED Replacement Lamp (UL Type B)	44	2,600	2,730	0.5	289	128	768	10	2.2

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2-lamp 32W T8 4' Strip Fixture Large Quonset Hut	59	2	DLC Qualified LED Replacement Lamp (UL Type B)	30	2,600	153	0.0	16	16	96	10	4.9
4-lamp 40W T12 4' Strip Fixture Small Quonset Hut	175	2	DLC Qualified LED Replacement Lamp (UL Type B)	44	2,600	683	0.1	72	32	192	10	2.2
2-lamp 100W Incandescent Flood Light Exterior	100	1	ENERGY STAR Qualified LED Screw-In Lamp	30	4,380	307	0.0	11	0	22	10	1.9
60W Downlight Over Front Door Meter Shop	60	2	ENERGY STAR Qualified LED Screw-In Lamp	18	1,300	109	0.0	4	0	22	10	5.4
4-lamp 34W T12 4' Strip Fixture Mater Shop	156	3	DLC Qualified LED Replacement Lamp (UL Type B)	39	1,300	456	0.2	48	48	288	10	5.0
2-lamp 34 T12 4' Strip Fixture Mater Shop	67	1	DLC Qualified LED Replacement Lamp (UL Type B)	17	1,300	65	0.0	7	8	48	10	5.8
2-lamp 60W T12 8' Strip Fixture Mater Shop	133	2	DLC Qualified LED Replacement Lamp (UL Type B)	33	1,300	259	0.1	27	16	96	10	2.9
2-lamp 34W T12 2'x4' Troffer Mater Shop	67	2	DLC Qualified LED Replacement Lamp (UL Type B)	17	1,300	131	0.1	14	16	96	10	5.8
2-lamp 32W T8 4' Strip Fixture Mater Shop	59	3	DLC Qualified LED Replacement Lamp (UL Type B)	30	1,300	115	0.0	12	24	144	10	9.9
2-lamp 32W T8 4' Strip Fixture Sanitation	60	11	DLC Qualified LED Replacement Lamp (UL Type B)	30	2,600	858	0.2	91	88	528	10	4.8

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100W HID Wall Pack	125	4	DLC Qualified LED Mogul Screw-Based Replacement Lamps	25	4,380	1,752	0.0	66	0	808	9	12.3
2-lamp triple-tube pin-based 32W CFL	84	5	DLC Qualified LED Four Pin-Based Replacement Lamps	42	4,380	920	0.0	34	0	300	9	8.7
Total		210				21,734	4.8	2,090	1,936	12,768	10	5.2