

# Xcel Energy Analysis Report

The Municipal Service Center Complex



Exhibit 9: 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)
6-lamp 32W T8 High Bay Main Shop Bays	169	26	DLC Qualified LED Replacement Lamp (UL Type B)	85	2,600	5,712	1.1	768	624	3,744	10	4.1
2-lamp 32W T8 4' Strip Fixture Main Shop	59	33	DLC Qualified LED Replacement Lamp (UL Type B)	30	2,600	2,531	0.5	340	264	1,584	10	3.9
2-lamp 32W T8 4' Strip Fixture Parts Room	59	17	DLC Qualified LED Replacement Lamp (UL Type B)	30	2,600	1,473	0.3	198	136	816	10	3.4
2-lamp 32W T8 2'x4' Troffer Break Room and Offices	59	22	DLC Qualified LED Replacement Lamp (UL Type B)	30	2,600	1,907	0.4	256	176	1,056	10	3.4
2-lamp 17W T8 2'x2' Troffer Break Room and Offices	32	12	DLC Qualified LED Replacement Lamp (UL Type A/B)	16	2,600	564	0.1	76	48	576	10	7.0
60W Incandescent Recessed Can Bathrooms	60	2	ENERGY STAR Qualified LED Screw-In Lamp	18	2,600	247	0.1	33	10	22	10	0.4
2-lamp 32W T8 2'x4' Troffer Engineering	59	52	DLC Qualified LED Replacement Lamp (UL Type B)	30	2,600	4,507	1.1	606	416	2,496	10	3.4

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60W Incandescent Recessed Can Canopy	60	2	ENERGY STAR Qualified LED Screw-In Lamp	18	2,600	247	0.1	33	10	22	10	0.4
2-lamp 32W T8 4' Strip Fixture Engineering	59	1	DLC Qualified LED Replacement Lamp (UL Type B)	30	2,600	87	0.0	12	8	48	10	3.4
4-lamp 32W T8 2'x4' Troffer Warehouse	117	3	DLC Qualified LED Replacement Lamp (UL Type B)	59	2,600	516	0.1	69	48	288	10	3.5
6-lamp 32W T8 High Bay Warehouse	169	23	DLC Qualified LED Replacement Lamp (UL Type B)	85	2,600	5,710	1.3	768	552	3,312	10	3.6
2-lamp 17W T8 2'x2' Troffer Warehouse	32	1	DLC Qualified LED Replacement Lamp (UL Type A/B)	16	2,600	47	0.0	6	4	48	10	7.0
2-lamp 4' T8 Strip 32W Racks in Warehouse	59	42	DLC Qualified LED Replacement Lamp (UL Type B)	30	2,600	3,640	0.9	490	336	2,016	10	3.4
23W CFL Recessed Can Canopy (walkway)	30	5	DLC Qualified LED Four Pin-Based Replacement Lamps	15	4,380	329	0.0	12	35	150	9	9.3
4-lamp 54W T5 High Bay Building H	234	28	DLC Qualified LED Replacement Lamp (UL Type B)	140	2,600	6,814	1.4	916	448	2,688	10	2.4
<b>Total</b>		<b>269</b>				<b>34,330</b>	<b>7.5</b>	<b>4,585</b>	<b>3,115</b>	<b>18,866</b>	<b>10</b>	<b>3.4</b>