

Public Service Company of Colorado  
 Electric Department  
 Street and Area Light Rate Light Count Forecast  
 Test Year 2023

Line No.	Rate Sch.	Ref No.	Description of Lights				Connected Load kW	Connected Load kW	Annual Light Mo. Count 12 Mo. Ending 12/31/2023	Current Rates	Total Revenues Current Rates	Proposed Rates	Revised Total Revenues
			Lamp Type	Lumen Rating	Lamp Watts	Burn Period							
1	<b>RAL - Residential Area Lighting</b>												
2													
3	RAL	010	HPS	9500	100	Night	0.117	511.24	52,435	\$12.89	\$675,881	\$ 15.45	\$ 810,113.14
4	RAL	020	HPS	27500	250	Night	0.296	9.74	395	\$16.44	\$6,489	\$ 18.58	\$ 7,333.53
5	RAL	030	HPS	50000	400	Night	0.482	2.89	72	\$20.13	\$1,449	\$ 21.84	\$ 1,571.75
6													
7	RAL	510	LED	4000	39	Night	0.039	0.02	5	\$11.34	\$62	\$ 14.09	\$ 76.56
8	RAL	520	LED	14000	155	Night	0.155	0.00	-	\$13.64	\$0	\$ 16.12	\$ -
9	RAL	530	LED	25000	246	Night	0.246	0.00	-	\$15.46	\$0	\$ 17.70	\$ -
10													
11	RAL	610	LED Option A	4000	39	Night	0.039	6.56	2,017	\$14.13	\$28,500	\$ 17.93	\$ 36,164.76
12	RAL	620	LED Option A	14000	155	Night	0.155	0.19	15	\$17.78	\$263	\$ 20.50	\$ 303.74
13	RAL	630	LED Option A	25000	246	Night	0.246	0.00	-	\$22.25	\$0	\$ 23.94	\$ -
14													
15			Total RAL					530.63	54,938		\$ 712,644		\$ 855,563.47
16													
17													
18	<b>CAL - Commercial Area Lighting</b>												
19													
20	CAL	010	HPS	9500	100	Night	0.117	1,678.89	172,194	\$12.89	\$2,219,580	\$ 15.45	\$ 2,660,396.64
21	CAL	020	HPS	27500	250	Night	0.296	173.23	7,023	\$16.44	\$115,452	\$ 18.58	\$ 130,480.62
22	CAL	030	HPS	50000	400	Night	0.482	101.13	2,518	\$20.13	\$50,684	\$ 21.84	\$ 54,989.48
23													
24	CAL	510	LED	4000	39	Night	0.039	1.57	482	\$11.34	\$5,470	\$ 14.09	\$ 6,796.90
25	CAL	520	LED	14000	155	Night	0.155	17.09	1,323	\$13.64	\$18,048	\$ 16.12	\$ 21,328.87
26	CAL	530	LED	25000	246	Night	0.246	4.52	221	\$15.46	\$3,409	\$ 17.70	\$ 3,903.24
27													
28	CAL	610	LED Option A	4000	39	Night	0.039	87.47	26,915	\$14.13	\$380,306	\$ 17.93	\$ 482,582.24
29	CAL	620	LED Option A	14000	155	Night	0.155	53.87	4,171	\$17.78	\$74,156	\$ 20.50	\$ 85,500.61
30	CAL	630	LED Option A	25000	246	Night	0.246	6.35	310	\$22.25	\$6,892	\$ 23.94	\$ 7,415.14
31													
32			Total CAL					2,124.12	215,156		\$ 2,873,997		\$ 3,453,394
33													
34													
35	<b>PLL - Parking Lot Lighting</b>												
36													
37	PLL	010	HPS	9500	100	Night	0.117	275.15	28,220	\$11.47	\$323,684	\$ 14.40	\$ 406,368.27
38	PLL	020	HPS	16000	150	Night	0.171	19.26	1,352	\$12.55	\$16,966	\$ 15.35	\$ 20,751.12
39	PLL	030	HPS	22000	200	Night	0.229	66.34	3,476	\$13.69	\$47,588	\$ 16.36	\$ 56,868.72
40	PLL	040	HPS	27500	250	Night	0.296	259.55	10,522	\$15.03	\$158,150	\$ 17.53	\$ 184,456.09
41	PLL	050	HPS	50000	400	Night	0.482	261.63	6,514	\$18.72	\$121,935	\$ 20.79	\$ 135,418.16
42													
43	PLL	510	LED	4000	39	Night	0.039	0.20	60	\$9.92	\$595	\$ 13.04	\$ 782.40
44	PLL	520	LED	6000	65	Night	0.065	0.00	-	\$10.43	\$0	\$ 13.49	\$ -
45	PLL	530	LED	14000	155	Night	0.155	0.80	62	\$12.23	\$758	\$ 15.07	\$ 934.34
46	PLL	540	LED	25000	246	Night	0.246	0.00	-	\$14.04	\$0	\$ 16.65	\$ -
47													
48	PLL	610	LED Option A	4000	39	Night	0.039	35.04	10,782	\$12.72	\$137,147	\$ 16.88	\$ 181,999.97
49	PLL	620	LED Option A	6000	65	Night	0.065	5.34	987	\$13.45	\$13,270	\$ 18.55	\$ 18,301.09
50	PLL	630	LED Option A	14000	155	Night	0.155	37.60	2,911	\$16.36	\$47,627	\$ 19.45	\$ 56,623.07
51	PLL	640	LED Option A	25000	246	Night	0.246	88.91	4,337	\$20.83	\$90,338	\$ 22.89	\$ 99,272.12
52													
53			Total PLL					1,049.82	69,223		\$ 958,058		\$ 1,161,775
54													
55	<b>SL - Street Lighting</b>												
56													
57	SL	010	HPS	4100	50	Night	0.061	101.26	19,920	\$10.36	\$206,370	\$ 13.42	\$ 267,325.26
58	SL	020	HPS	5800	70	Night	0.083	895.28	129,439	\$10.80	\$1,397,936	\$ 13.80	\$ 1,786,251.35
59	SL	030	HPS	9500	100	Night	0.117	5,044.55	517,390	\$11.47	\$5,934,466	\$ 14.40	\$ 7,450,419.14

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			Lamp Type	Lumen Rating	Lamp Watts	Burn Period							
60	SL	040	HPS	16000	150	Night	0.171	510.23	35,806	\$12.55	\$449,363	\$ 15.35	\$ 549,618.72
61	SL	050	HPS	22000	200	Night	0.229	700.58	36,712	\$13.69	\$502,582	\$ 16.36	\$ 600,602.32
62	SL	060	HPS	27500	250	Night	0.296	6,887.33	279,216	\$15.03	\$4,196,620	\$ 17.53	\$ 4,894,660.09
63	SL	070	HPS	50000	400	Night	0.482	1,881.80	46,850	\$18.72	\$877,026	\$ 20.79	\$ 974,004.86
64	SL	080	HPS	140000	1000	Night	1.065	1,342.64	15,128	\$30.30	\$458,388	\$ 31.00	\$ 468,977.41
65													
66	SL	100	MH	4200	70	Night	0.083	0.75	108	\$12.05	\$1,301	\$ 13.72	\$ 1,481.76
67	SL	110	MH	8500	100	Night	0.130	131.65	12,152	\$12.99	\$157,854	\$ 14.55	\$ 176,811.60
68	SL	120	MH	14000	175	Night	0.213	190.88	10,754	\$14.63	\$157,331	\$ 16.00	\$ 172,064.00
69	SL	130	MH	20500	250	Night	0.295	440.40	17,915	\$16.26	\$291,291	\$ 17.43	\$ 312,250.58
70	SL	140	MH	36000	400	Night	0.457	256.34	6,731	\$19.48	\$131,120	\$ 20.27	\$ 136,437.37
71	SL	150	MH	110000	1000	Night	1.090	29.43	324	\$32.04	\$10,381	\$ 31.36	\$ 10,160.64
72													
73	SL	160	QL	3500	55	Night	0.055	30.10	6,568	\$12.49	\$82,034	\$ 12.80	\$ 84,070.40
74	SL	170	QL	6000	85	Night	0.085	0.00	-	\$13.08	\$0	\$ 13.32	\$ -
75	SL	180	QL	12000	165	Night	0.165	30.80	2,240	\$14.67	\$32,861	\$ 14.72	\$ 32,972.80
76													
77	SL	210	FL	1100	18	Night	0.023	0.13	67	\$10.72	\$718	\$ 12.66	\$ 848.22
78	SL	220	FL	1750	28	Night	0.033	48.77	17,735	\$10.92	\$193,666	\$ 12.83	\$ 227,540.05
79													
80	SL	510	LED	2750	29	Night	0.029	10.70	4,428	\$9.32	\$41,269	\$ 12.06	\$ 53,402.30
81	SL	520	LED	4000	39	Night	0.039	96.83	29,794	\$9.52	\$283,643	\$ 12.24	\$ 364,683.35
82	SL	525	LED	4000	50	Night	0.050	478.10	114,743	\$9.73	\$1,116,449	\$ 12.43	\$ 1,426,254.47
83	SL	530	LED	6000	65	Night	0.065	44.36	8,190	\$10.03	\$82,141	\$ 12.69	\$ 103,925.44
84	SL	540	LED	14000	155	Night	0.155	110.61	8,563	\$11.82	\$101,219	\$ 14.27	\$ 122,199.24
85	SL	550	LED	25000	246	Night	0.246	1,273.33	62,114	\$13.63	\$846,609	\$ 15.85	\$ 984,501.34
86	SL	560	LED	40000	320	Night	0.320	276.95	10,386	\$15.09	\$156,722	\$ 17.15	\$ 178,116.56
87	SL	570	LED	55000	500	Night	0.500	139.74	3,354	\$18.66	\$62,580	\$ 20.31	\$ 68,113.58
88													
89	SL	610	LED OPT A	2750	29	Night	0.029	16.31	6,749	\$12.07	\$81,460	\$ 15.60	\$ 105,283.97
90	SL	620	LED OPT A	4000	39	Night	0.039	1,083.01	333,233	\$12.31	\$4,102,094	\$ 16.08	\$ 5,358,381.25
91	SL	625	LED OPT A	4000	50	Night	0.050	2.85	684	\$12.52	\$8,564	\$ 17.96	\$ 12,284.64
92	SL	630	LED OPT A	6000	65	Night	0.065	246.04	45,422	\$13.04	\$592,303	\$ 17.75	\$ 806,240.50
93	SL	640	LED OPT A	14000	155	Night	0.155	3,799.87	294,183	\$15.95	\$4,692,223	\$ 18.65	\$ 5,486,518.21
94	SL	650	LED OPT A	25000	246	Night	0.246	489.46	23,876	\$20.43	\$487,786	\$ 22.09	\$ 527,420.35
95	SL	660	LED OPT A	40000	320	Night	0.320	0.00	-	\$27.12	\$0	\$ 29.86	\$ -
96	SL	670	LED OPT A	55000	500	Night	0.500	0.00	-	\$32.22	\$0	\$ 34.22	\$ -
97													
98	SL	710	LED OPT B	2750	29	Night	0.029	3.37	1,395	\$10.38	\$14,480	\$ 13.35	\$ 18,623.25
99	SL	720	LED OPT B	4000	39	Night	0.039	72.09	22,180	\$10.59	\$234,888	\$ 13.67	\$ 303,202.96
100	SL	725	LED OPT B	4000	50	Night	0.050	0.50	120	\$12.81	\$1,537	\$ 14.62	\$ 1,753.93
101	SL	730	LED OPT B	6000	65	Night	0.065	77.00	14,216	\$11.20	\$159,221	\$ 14.66	\$ 208,409.31
102	SL	740	LED OPT B	14000	155	Night	0.155	212.19	16,428	\$13.50	\$221,774	\$ 15.93	\$ 261,692.90
103	SL	750	LED OPT B	25000	246	Night	0.246	139.43	6,802	\$16.52	\$112,362	\$ 18.36	\$ 124,877.02
104	SL	760	LED OPT B	40000	320	Night	0.320	0.00	-	\$20.33	\$0	\$ 22.57	\$ -
105	SL	770	LED OPT B	55000	500	Night	0.500	2.00	48	\$24.59	\$1,180	\$ 26.27	\$ 1,260.96
106													
107	SL	310	HPS	5800	70	Day	0.083	0.83	120	\$10.83	\$1,300	\$ 13.81	\$ 1,657.20
108	SL	320	HPS	16000	150	Day	0.171	1.20	84	\$12.60	\$1,058	\$ 15.37	\$ 1,291.08
109	SL	330	HPS	22000	200	Day	0.229	6.56	344	\$13.76	\$4,733	\$ 16.40	\$ 5,641.60
110	SL	340	HPS	27500	250	Day	0.296	3.55	144	\$15.12	\$2,177	\$ 17.58	\$ 2,531.52
111	SL	350	HPS	50000	400	Day	0.482	68.60	1,708	\$18.87	\$32,230	\$ 20.85	\$ 35,611.80
112													
113	SL	410	HPS	5800	70	24Hr	0.083	0.00	-	\$11.05	\$0	\$ 13.91	\$ -
114	SL	420	HPS	16000	150	24Hr	0.171	26.42	1,854	\$13.06	\$24,213	\$ 15.57	\$ 28,866.78
115	SL	430	HPS	22000	200	24Hr	0.229	0.99	52	\$14.39	\$748	\$ 16.67	\$ 866.84
116	SL	440	HPS	27500	250	24Hr	0.296	0.00	-	\$15.92	\$0	\$ 17.93	\$ -
117	SL	450	HPS	50000	400	24Hr	0.482	46.67	1,162	\$20.18	\$23,449	\$ 21.43	\$ 24,901.66
118													
119			Total SL					27,252.49	2,167,429	\$	28,571,721	\$	34,765,011

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			Lamp Type	Lumen Rating	Lamp Watts	Burn Period							
120			<b>MSL - Metered Street Lighting</b>										
121													
122													
123	MSL		MSL						\$3.35	\$ 7,276	\$ 3.95	\$ -	
124									\$0.05356	\$ 38,071	\$ 0.05070	\$ -	
125			Total MSL							\$ 45,347		\$ -	
126													
127			<b>SSL - Special Street Lighting</b>										
128													
129	SSL	010	MV	4200	100	Night	0.117	2.11	216	\$11.47	\$2,478	\$ 14.40	\$ 3,110.40
130													
131			Total SSL							\$ 2,478		\$ 3,110	
132													
133			<b>COL - Customer Owned Lighting</b>										
134													
135	COL	010	HPS	9500	100	Night	0.117	3.73	383	\$2.73	\$1,046	\$ 2.93	\$ 1,122.05
136	COL	020	HPS	16000	150	Night	0.171	46.07	3,233	\$3.81	\$12,318	\$ 3.88	\$ 12,542.83
137	COL	030	HPS	22000	200	Night	0.229	0.43	23	\$4.95	\$112	\$ 4.89	\$ 110.16
138	COL	040	HPS	27500	250	Night	0.296	72.80	2,951	\$6.29	\$18,565	\$ 6.06	\$ 17,884.42
139	COL	050	HPS	37000	310	Night	0.379	1.07	34	\$7.94	\$268	\$ 7.51	\$ 253.79
140	COL	060	HPS	50000	400	Night	0.482	619.45	15,422	\$9.97	\$153,756	\$ 9.32	\$ 143,724.92
141	COL	070	HPS	140000	1000	Night	1.065	802.82	9,046	\$21.56	\$195,029	\$ 19.53	\$ 176,661.55
142													
143	COL	100	MH	4200	70	Night	0.083	0.00	-	\$12.05	\$0	\$ 2.25	\$ -
144	COL	102	MH	8500	100	Night	0.130	0.00	-	\$12.99	\$0	\$ 3.08	\$ -
145	COL	104	MH	14000	175	Night	0.213	0.00	-	\$14.63	\$0	\$ 4.53	\$ -
146	COL	106	MH	20500	250	Night	0.295	0.00	-	\$16.26	\$0	\$ 5.96	\$ -
147	COL	108	MH	36000	400	Night	0.457	0.00	-	\$19.48	\$0	\$ 8.80	\$ -
148	COL	110	MH	110000	1000	Night	1.090	26.16	288	\$23.30	\$6,710	\$ 19.89	\$ 5,728.18
149													
150	COL	210	HPS	27500	250	Day	0.296	157.77	6,396	\$6.38	\$40,806	\$ 6.11	\$ 39,076.53
151	COL	220	HPS	50000	400	Day	0.482	0.00	-	\$10.13	\$0	\$ 9.38	\$ -
152													
153	COL	310	HPS	27500	250	24Hr	0.296	116.03	4,704	\$7.18	\$33,775	\$ 6.46	\$ 30,385.61
154	COL	320	HPS	50000	400	24Hr	0.482	0.00	-	\$11.44	\$0	\$ 9.96	\$ -
155													
156			Total COL					1,846.33	42,480	\$	462,385		427,490

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			Lamp Type	Lumen Rating	Lamp Watts	Burn Period							
157													
158			ESL - Street Lighting										
159													
160	ESL	001	0.0	- 3.0			0.004	0.00	-	\$0.15	\$0	\$ 0.16 \$ -	
161	ESL	002	3.1	- 6.0			0.013	0.03	24	\$0.32	\$8	\$ 0.31 \$ 7.43	
162	ESL	003	6.1	- 9.0			0.022	3.35	1,835	\$0.48	\$881	\$ 0.46 \$ 843.23	
163	ESL	004	9.1	- 12.0			0.031	1.88	737	\$0.64	\$472	\$ 0.62 \$ 456.59	
164	ESL	005	12.1	- 15.0			0.039	6.13	1,872	\$0.79	\$1,479	\$ 0.77 \$ 1,440.55	
165	ESL	006	15.1	- 18.0			0.048	1.73	432	\$0.96	\$415	\$ 0.92 \$ 397.24	
166	ESL	007	18.1	- 21.0			0.057	11.85	2,508	\$1.12	\$2,809	\$ 1.07 \$ 2,682.37	
167	ESL	008	21.1	- 24.0			0.065	0.52	96	\$1.28	\$123	\$ 1.22 \$ 117.07	
168	ESL	009	24.1	- 27.0			0.074	1.47	238	\$1.44	\$343	\$ 1.38 \$ 328.33	
169	ESL	010	27.1	- 30.0			0.083	17.60	2,550	\$1.60	\$4,080	\$ 1.53 \$ 3,900.29	
170	ESL	011	30.1	- 33.0			0.091	8.59	1,128	\$1.76	\$1,985	\$ 1.68 \$ 1,894.51	
171	ESL	012	33.1	- 36.0			0.100	0.00	-	\$1.93	\$0	\$ 1.83 \$ -	
172	ESL	013	36.1	- 39.0			0.109	2.18	240	\$2.08	\$499	\$ 1.98 \$ 475.09	
173	ESL	014	39.1	- 42.0			0.118	71.32	7,284	\$2.24	\$16,316	\$ 2.14 \$ 15,584.31	
174	ESL	015	42.1	- 45.0			0.126	0.00	-	\$2.40	\$0	\$ 2.29 \$ -	
175	ESL	016	45.1	- 48.0			0.135	1.35	120	\$2.57	\$308	\$ 2.44 \$ 292.74	
176	ESL	017	48.1	- 51.0			0.144	0.57	48	\$2.73	\$131	\$ 2.59 \$ 124.30	
177	ESL	018	51.1	- 54.0			0.152	2.13	168	\$2.88	\$484	\$ 2.74 \$ 460.24	
178	ESL	019	54.1	- 57.0			0.161	0.00	-	\$3.05	\$0	\$ 2.90 \$ -	
179	ESL	020	57.1	- 60.0			0.170	2.72	192	\$3.21	\$616	\$ 3.05 \$ 585.51	
180	ESL	021	60.1	- 63.0			0.178	0.00	-	\$3.37	\$0	\$ 3.20 \$ -	
181	ESL	022	63.1	- 66.0			0.187	0.00	-	\$3.52	\$0	\$ 3.35 \$ -	
182	ESL	023	66.1	- 69.0			0.196	0.00	-	\$3.69	\$0	\$ 3.51 \$ -	
183	ESL	024	69.1	- 72.0			0.205	0.00	-	\$3.85	\$0	\$ 3.66 \$ -	
184	ESL	025	72.1	- 75.0			0.213	17.48	984	\$4.01	\$3,946	\$ 3.81 \$ 3,748.57	
185	ESL	026	75.1	- 78.0			0.222	0.00	-	\$4.17	\$0	\$ 3.96 \$ -	
186	ESL	027	78.1	- 81.0			0.231	21.96	1,143	\$4.33	\$4,949	\$ 4.11 \$ 4,697.19	
187	ESL	028	81.1	- 84.0			0.239	0.00	-	\$4.49	\$0	\$ 4.27 \$ -	
188	ESL	029	84.1	- 87.0			0.248	1.24	60	\$4.66	\$280	\$ 4.42 \$ 265.17	
189	ESL	030	87.1	- 90.0			0.257	30.03	1,404	\$4.82	\$6,767	\$ 4.57 \$ 6,415.62	
190	ESL	031	90.1	- 93.0			0.265	0.00	-	\$4.97	\$0	\$ 4.72 \$ -	
191	ESL	032	93.1	- 96.0			0.274	1.58	69	\$5.13	\$354	\$ 4.87 \$ 336.00	
192	ESL	033	96.1	- 99.0			0.283	0.00	-	\$5.30	\$0	\$ 5.03 \$ -	
193	ESL	034	99.1	- 102.0			0.291	78.68	3,240	\$5.46	\$17,690	\$ 5.18 \$ 16,781.67	
194	ESL	035	102.1	- 105.0			0.300	23.23	929	\$5.61	\$5,212	\$ 5.33 \$ 4,951.13	
195	ESL	036	105.1	- 108.0			0.309	0.00	-	\$5.78	\$0	\$ 5.48 \$ -	
196	ESL	037	108.1	- 111.0			0.318	0.00	-	\$5.94	\$0	\$ 5.63 \$ -	
197	ESL	038	111.1	- 114.0			0.326	0.00	-	\$6.10	\$0	\$ 5.79 \$ -	
198	ESL	039	114.1	- 117.0			0.335	0.00	-	\$6.25	\$0	\$ 5.94 \$ -	
199	ESL	040	117.1	- 120.0			0.344	0.00	-	\$6.42	\$0	\$ 6.09 \$ -	
200	ESL	041	120.1	- 123.0			0.352	11.27	384	\$6.58	\$2,527	\$ 6.24 \$ 2,395.98	

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Line No.	Rate Sch.	Ref No.	Description of Lights				Connected Load kW	Connected Load kW	Annual Light Mo. Count 12 Mo. Ending 12/31/2023	Current Rates	Total Revenues		Proposed Rates		Revised	
			Lamp Type	Lumen Rating	Lamp Watts	Burn Period					Current Rates	Current Rates	Rates	Total Revenues		
201	ESL	042	123.1	- 126.0			0.361	0.00	-	\$6.74	\$0	\$	6.40	\$ -		
202	ESL	043	126.1	- 129.0			0.370	0.00	-	\$6.91	\$0	\$	6.55	\$ -		
203	ESL	044	129.1	- 132.0			0.378	0.00	-	\$7.06	\$0	\$	6.70	\$ -		
204	ESL	045	132.1	- 135.0			0.387	0.00	-	\$7.22	\$0	\$	6.85	\$ -		
205	ESL	046	135.1	- 138.0			0.396	0.00	-	\$7.39	\$0	\$	7.00	\$ -		
206	ESL	047	138.1	- 141.0			0.405	0.00	-	\$7.55	\$0	\$	7.16	\$ -		
207	ESL	048	141.1	- 144.0			0.413	0.00	-	\$7.70	\$0	\$	7.31	\$ -		
208	ESL	049	144.1	- 147.0			0.422	0.00	-	\$7.86	\$0	\$	7.46	\$ -		
209	ESL	050	147.1	- 150.0			0.431	0.00	-	\$8.03	\$0	\$	7.61	\$ -		
210	ESL	051	150.1	- 153.0			0.439	0.00	-	\$8.19	\$0	\$	7.76	\$ -		
211	ESL	052	153.1	- 156.0			0.448	0.00	-	\$8.35	\$0	\$	7.92	\$ -		
212	ESL	053	156.1	- 159.0			0.457	5.48	144	\$8.51	\$1,225	\$	8.07	\$ 1,162.01		
213	ESL	054	159.1	- 162.0			0.465	0.00	-	\$8.67	\$0	\$	8.22	\$ -		
214	ESL	055	162.1	- 165.0			0.474	0.00	-	\$8.83	\$0	\$	8.37	\$ -		
215	ESL	056	165.1	- 168.0			0.483	47.27	1,175	\$9.00	\$10,575	\$	8.52	\$ 10,010.44		
216	ESL	057	168.1	- 171.0			0.491	0.00	-	\$9.15	\$0	\$	8.68	\$ -		
217	ESL	058	171.1	- 174.0			0.500	88.02	2,112	\$9.31	\$19,663	\$	8.83	\$ 18,647.96		
218																
219			Total ESL					459.67	31,116		\$	104,136		\$	99,002	
220																
221			<b>SLU - Unincorporated Area Street Lighting</b>													
222																
223	SLU	010	HPS	9500	100	Night	0.117	812.02	83,284	\$1.78	\$148,245	\$	2.19	\$ 182,391.78		
224																
225	SLU	510	LED	4000	39	Night	0.039	20.40	6,278	\$1.56	\$9,794	\$	2.00	\$ 12,556.04		
226																
227	SLU	610	LED OPT A	4000	39	Night	0.039	0.00	-	\$1.96	\$0	\$	2.55	\$ -		
228																
229			Total SLU					832.42	89,562		\$	158,039		\$	194,948	
230																
231			<b>Total Street and Area Base Rates</b>					<b>34,098 kW</b>	<b>2,670,119</b>		<b>\$</b>	<b>33,888,805</b>		<b>\$</b>	<b>40,960,293</b>	
232																
233			<b>Street Light Maintenance Charges</b>									\$2,963,744		\$	2,963,744.40	
234																
235			<b>Municipal Services Charges</b>						1,530,107	\$0.01149	\$	17,581		\$	17,580.93	
236																
237			<b>Total Street and Area Lighting Service</b>								<b>\$</b>	<b>36,870,130</b>		<b>\$</b>	<b>43,941,618.28</b>	

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Determination of System and Facility Unit Costs

Line No.			
1	<u>System Capacity per Connected kW</u>		
2			
3	System Capacity Revenue Requirement	\$5,080,796	
4	Demand Side Management	1,592,809	
5	Total Capacity Revenue Requirement	\$ 6,673,605	
6			
7	Total Connected Load	34,098 kW	
8			
9	Capacity Cost per kW of Connected Load	\$195.72 / kW	
10			
11			
12			
13	<u>Base Energy per kWh</u>		
14			
15	Base Energy Revenue Requirement	\$489,667	
16			
17	Total Delivered Energy, kWh	141,274,664 kWh	
18			
19	Base Energy Cost per kWh	\$ 0.00347 / kWh	
20			
21	<u>Base Capacity and Energy Combined for ESL and MSL</u>		
22	Total Capacity Revenue Requirement	\$ 6,673,605	
23	Base Energy Revenue Requirement	\$ 489,667	
24	Total Base Energy Cost per kWh	7,163,272	
25	Base Capacity and Energy Cost per kWh	\$ 0.05070 / kWh	
26			
27			
28	<u>Facility Cost per Month</u>		
29			
30	Total Customer Revenue Requirement	\$36,461,395	
31	Plus Low Income Assistance	206,493	Low-Income 0.080
32	Less Maintenance Costs included in Base Rates	(1,247,906)	
33	Less Non-Routine Maintenance (separately billed)	(2,048,924)	
34	Less RAL, CAL, SLU included in Base Rates	(296,957)	
35	Less LED option included in Base Rates	(3,081,045)	
36	Required Annual Facility Cost Revenue	\$29,993,056	
37			
38	Total Annual Light Count:		
39	Total Street and Area Lights	2,670,119 Light Months	
40	Less Customer Owned Lights (COL & ESL)	73,596 Light Months	
41	Total Company Owned Lights	2,596,523 Light Months	
42			
43			
44	Monthly Facility Cost per Light	\$11.55 / Month	
45	Monthly Facility Cost per Light Adjustment	0.00	

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Line No.	Rate Sch.	Ref No.	Description of Lights				System and Maintenance Costs Included in Monthly Rates						Months Annual Light Count	Facility Cost \$ / Month	Proposed Total Base Rate \$ / Month	Proposed Base Rate Revenue \$			
							System Capacity Cost			System Energy Cost							Included Maintenance Cost		
							Connected Load kW	Cost/Unit Annual \$	@ 195.72 Monthly \$	Annual Burning Hours	Annual Energy kWh	Cost/Unit Annual \$					@ 0.00347 Monthly \$	Routine (Lamp + LSC) Monthly \$	Non-Routine Monthly \$
<b>RAL - Residential Area Lighting</b>																			
1																			
2																			
3	RAL	010	HPS	9500	100	Night	0.117	22.90	1.91	4,140	484	1.68	0.14	0.80	1.05	1.85	52,435	15.45	810,113
4	RAL	020	HPS	27500	250	Night	0.296	57.93	4.83	4,140	1,225	4.25	0.35	0.80	1.05	1.85	395	18.58	7,334
5	RAL	030	HPS	50000	400	Night	0.482	94.34	7.86	4,140	1,995	6.92	0.58	0.80	1.05	1.85	72	21.84	1,572
6																			
7	RAL	510	LED	4000	39	Night	0.039	7.63	0.64	4,140	161	0.56	0.05	0.80	1.05	1.85	5	14.09	77
8	RAL	520	LED	14000	155	Night	0.155	30.34	2.53	4,140	642	2.23	0.19	0.80	1.05	1.85	0	16.12	-
9	RAL	530	LED	25000	246	Night	0.246	48.15	4.01	4,140	1,018	3.53	0.29	0.80	1.05	1.85	0	17.70	-
10																			
11	RAL	610	LED Option A	4000	39	Night	0.039	7.63	0.64	4,140	161	0.56	0.05	0.80	1.05	1.85	2,017	17.93	36,165
12	RAL	620	LED Option A	14000	155	Night	0.155	30.34	2.53	4,140	642	2.23	0.19	0.80	1.05	1.85	15	20.50	304
13	RAL	630	LED Option A	25000	246	Night	0.246	48.15	4.01	4,140	1,018	3.53	0.29	0.80	1.05	1.85	0	23.94	-
14																			
15																	54,938		855,563
16																			
17																			
18	<b>CAL - Commercial Area Lighting</b>																		
19																			
20	CAL	010	HPS	9500	100	Night	0.117	22.90	1.91	4,140	484	1.68	0.14	0.80	1.05	1.85	172,194	15.45	2,660,397
21	CAL	020	HPS	27500	250	Night	0.296	57.93	4.83	4,140	1,225	4.25	0.35	0.80	1.05	1.85	7,023	18.58	130,481
22	CAL	030	HPS	50000	400	Night	0.482	94.34	7.86	4,140	1,995	6.92	0.58	0.80	1.05	1.85	2,518	21.84	54,989
23																			
24	CAL	510	LED	4000	39	Night	0.039	7.63	0.64	4,140	161	0.56	0.05	0.80	1.05	1.85	482	14.09	6,797
25	CAL	520	LED	14000	155	Night	0.155	30.34	2.53	4,140	642	2.23	0.19	0.80	1.05	1.85	1,323	16.12	21,329
26	CAL	530	LED	25000	246	Night	0.246	48.15	4.01	4,140	1,018	3.53	0.29	0.80	1.05	1.85	221	17.70	3,903
27																			
28	CAL	610	LED Option A	4000	39	Night	0.039	7.63	0.64	4,140	161	0.56	0.05	0.80	1.05	1.85	26,915	17.93	482,582
29	CAL	620	LED Option A	14000	155	Night	0.155	30.34	2.53	4,140	642	2.23	0.19	0.80	1.05	1.85	4,171	20.50	85,501
30	CAL	630	LED Option A	25000	246	Night	0.246	48.15	4.01	4,140	1,018	3.53	0.29	0.80	1.05	1.85	310	23.94	7,415
31																			
32																	215,156		3,453,394
33																			
34																			
35	<b>PLL - Parking Lot Lighting</b>																		
36																			
37	PLL	010	HPS	9500	100	Night	0.117	22.90	1.91	4,140	484	1.68	0.14	0.80		0.80	28,220	14.40	406,368
38	PLL	020	HPS	16000	150	Night	0.171	33.47	2.79	4,140	708	2.46	0.21	0.80		0.80	1,352	15.35	20,751
39	PLL	030	HPS	22000	200	Night	0.229	44.82	3.74	4,140	948	3.29	0.27	0.80		0.80	3,476	16.36	56,869
40	PLL	040	HPS	27500	250	Night	0.296	57.93	4.83	4,140	1,225	4.25	0.35	0.80		0.80	10,522	17.53	184,456
41	PLL	050	HPS	50000	400	Night	0.482	94.34	7.86	4,140	1,995	6.92	0.58	0.80		0.80	6,514	20.79	135,418
42																			
43	PLL	510	LED	4000	39	Night	0.039	7.63	0.64	4,140	161	0.56	0.05	0.80		0.80	60	13.04	782
44	PLL	520	LED	6000	65	Night	0.065	12.72	1.06	4,140	269	0.93	0.08	0.80		0.80	0	13.49	-
45	PLL	530	LED	14000	155	Night	0.155	30.34	2.53	4,140	642	2.23	0.19	0.80		0.80	62	15.07	934
46	PLL	540	LED	25000	246	Night	0.246	48.15	4.01	4,140	1,018	3.53	0.29	0.80		0.80	0	16.65	-
47																			
48	PLL	610	LED Option A	4000	39	Night	0.039	7.63	0.64	4,140	161	0.56	0.05	0.80		0.80	10,782	16.88	182,000
49	PLL	620	LED Option A	6000	65	Night	0.065	12.72	1.06	4,140	269	0.93	0.08	0.80		0.80	987	18.55	18,301
50	PLL	630	LED Option A	14000	155	Night	0.155	30.34	2.53	4,140	642	2.23	0.19	0.80		0.80	2,911	19.45	56,623
51	PLL	640	LED Option A	25000	246	Night	0.246	48.15	4.01	4,140	1,018	3.53	0.29	0.80		0.80	4,337	22.89	99,272
52																			
53																	69,222.60		1,161,775

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Line No.	Description of Lights						System Capacity Cost			System Energy Cost				Included Maintenance Cost			Months Annual Light Count	Facility Cost \$ / Month Proposed Total Base Rate \$ / Month	Proposed Base Rate Revenue \$
	Rate Sch.	Ref No.	Lamp Type	Lumen Rating	Lamp Watts	Burn Period	Connected Load kW	Cost/Unit @ 195.72		Annual Burning Hours	Annual Energy kWh	Cost/Unit @ 0.00347		Routine (Lamp + LSC) Monthly \$	Non-Routine Monthly \$	Cost/Unit Monthly \$			
								Annual \$	Monthly \$			Annual \$	Monthly \$						
1	SL - Street Lighting																		
2																			
3	SL	010	HPS	4100	50	Night	0.061	11.94	1.00	4,140	253	0.88	0.07	0.80	0.80	0.80	19,920	13.42	267,325
4	SL	020	HPS	5800	70	Night	0.083	16.24	1.35	4,140	344	1.19	0.10	0.80	0.80	0.80	129,439	13.80	1,786,251
5	SL	030	HPS	9500	100	Night	0.117	22.90	1.91	4,140	484	1.68	0.14	0.80	0.80	0.80	517,390	14.40	7,450,419
6	SL	040	HPS	16000	150	Night	0.171	33.47	2.79	4,140	708	2.46	0.21	0.80	0.80	0.80	35,806	15.35	549,619
7	SL	050	HPS	22000	200	Night	0.229	44.82	3.74	4,140	948	3.29	0.27	0.80	0.80	0.80	36,712	16.36	600,602
8	SL	060	HPS	27500	250	Night	0.296	57.93	4.83	4,140	1,225	4.25	0.35	0.80	0.80	0.80	279,216	17.53	4,894,660
9	SL	070	HPS	50000	400	Night	0.482	94.34	7.86	4,140	1,995	6.92	0.58	0.80	0.80	0.80	46,850	20.79	974,005
10	SL	080	HPS	140000	1000	Night	1.065	208.44	17.37	4,140	4,409	15.30	1.28	0.80	0.80	0.80	15,128	31.00	468,977
11																			
12	SL	100	MH	4200	70	Night	0.083	16.24	1.35	4,140	344	1.19	0.10	0.72	0.72	0.72	108	13.72	1,482
13	SL	110	MH	8500	100	Night	0.130	25.44	2.12	4,140	538	1.87	0.16	0.72	0.72	0.72	12,152	14.55	176,812
14	SL	120	MH	14000	175	Night	0.213	41.69	3.47	4,140	882	3.06	0.26	0.72	0.72	0.72	10,754	16.00	172,064
15	SL	130	MH	20500	250	Night	0.295	57.74	4.81	4,140	1,221	4.24	0.35	0.72	0.72	0.72	17,915	17.43	312,251
16	SL	140	MH	36000	400	Night	0.457	89.44	7.45	4,140	1,892	6.57	0.55	0.72	0.72	0.72	6,731	20.27	136,437
17	SL	150	MH	110000	1000	Night	1.090	213.33	17.78	4,140	4,513	15.66	1.31	0.72	0.72	0.72	324	31.36	10,161
18																			
19	SL	160	QL	3500	55	Night	0.055	10.76	0.90	4,140	228	0.79	0.07	0.28	0.28	0.28	6,568	12.80	84,070
20	SL	170	QL	6000	85	Night	0.085	16.64	1.39	4,140	352	1.22	0.10	0.28	0.28	0.28	0	13.32	0
21	SL	180	QL	12000	165	Night	0.165	32.29	2.69	4,140	683	2.37	0.20	0.28	0.28	0.28	2,240	14.72	32,973
22																			
23	SL	210	FL	1100	18	Night	0.023	4.50	0.38	4,140	95	0.33	0.03	0.70	0.70	0.70	67	12.66	848
24	SL	220	FL	1750	28	Night	0.033	6.46	0.54	4,140	137	0.48	0.04	0.70	0.70	0.70	17,735	12.83	227,540
25																			
26	SL	510	LED	2750	29	Night	0.029	5.68	0.47	4,140	120	0.42	0.04	0.00	0.00	0.00	4,428	12.06	53,402
27	SL	520	LED	4000	39	Night	0.039	7.63	0.64	4,140	161	0.56	0.05	0.00	0.00	0.00	29,794	12.24	364,683
28	SL	525	LED	4000	50	Night	0.050	9.79	0.82	4,140	207	0.72	0.06	0.00	0.00	0.00	114,743	12.43	1,426,254
29	SL	530	LED	6000	65	Night	0.065	12.72	1.06	4,140	269	0.93	0.08	0.00	0.00	0.00	8,190	12.69	103,925
30	SL	540	LED	14000	155	Night	0.155	30.34	2.53	4,140	642	2.23	0.19	0.00	0.00	0.00	8,563	14.27	122,189
31	SL	550	LED	25000	246	Night	0.246	48.15	4.01	4,140	1,018	3.53	0.29	0.00	0.00	0.00	62,114	15.85	984,501
32	SL	560	LED	40000	320	Night	0.320	62.63	5.22	4,140	1,325	4.60	0.38	0.00	0.00	0.00	10,386	17.15	178,117
33	SL	570	LED	55000	500	Night	0.500	97.86	8.16	4,140	2,070	7.18	0.60	0.00	0.00	0.00	3,354	20.31	68,114
34																			
35	SL	610	LED OPT A	2750	29	Night	0.029	5.68	0.47	4,140	120	0.42	0.04	0.00	0.00	0.00	6,749	15.60	105,284
36	SL	620	LED OPT A	4000	39	Night	0.039	7.63	0.64	4,140	161	0.56	0.05	0.00	0.00	0.00	333,233	16.08	5,358,381
37	SL	625	LED OPT A	4000	50	Night	0.050	9.79	0.82	4,140	207	0.72	0.06	0.00	0.00	0.00	684	17.96	12,285
38	SL	630	LED OPT A	6000	65	Night	0.065	12.72	1.06	4,140	269	0.93	0.08	0.00	0.00	0.00	45,422	17.75	806,241
39	SL	640	LED OPT A	14000	155	Night	0.155	30.34	2.53	4,140	642	2.23	0.19	0.00	0.00	0.00	294,183	18.65	5,486,518
40	SL	650	LED OPT A	25000	246	Night	0.246	48.15	4.01	4,140	1,018	3.53	0.29	0.00	0.00	0.00	23,876	22.09	527,420
41	SL	660	LED OPT A	40000	320	Night	0.320	62.63	5.22	4,140	1,325	4.60	0.38	0.00	0.00	0.00	0	29.86	0
42	SL	670	LED OPT A	55000	500	Night	0.500	97.86	8.16	4,140	2,070	7.18	0.60	0.00	0.00	0.00	0	34.22	0
43																			
44	SL	710	LED OPT B	2750	29	Night	0.029	5.68	0.47	4,140	120	0.42	0.04	0.00	0.00	0.00	1,395	13.35	18,623
45	SL	720	LED OPT B	4000	39	Night	0.039	7.63	0.64	4,140	161	0.56	0.05	0.00	0.00	0.00	22,180	13.67	303,203
46	SL	725	LED OPT B	4000	50	Night	0.050	9.79	0.82	4,140	207	0.72	0.06	0.00	0.00	0.00	120	14.62	1,754
47	SL	730	LED OPT B	6000	65	Night	0.065	12.72	1.06	4,140	269	0.93	0.08	0.00	0.00	0.00	14,216	14.66	208,409
48	SL	740	LED OPT B	14000	155	Night	0.155	30.34	2.53	4,140	642	2.23	0.19	0.00	0.00	0.00	16,428	15.93	261,693
49	SL	750	LED OPT B	25000	246	Night	0.246	48.15	4.01	4,140	1,018	3.53	0.29	0.00	0.00	0.00	6,802	18.36	124,877
50	SL	760	LED OPT B	40000	320	Night	0.320	62.63	5.22	4,140	1,325	4.60	0.38	0.00	0.00	0.00	0	22.57	0
51	SL	770	LED OPT B	55000	500	Night	0.500	97.86	8.16	4,140	2,070	7.18	0.60	0.00	0.00	0.00	48	26.27	1,261
52																			
53	SL	310	HPS	5800	70	Day	0.083	16.24	1.35	4,620	383	1.33	0.11	0.80	0.80	0.80	120	13.81	1,657
54	SL	320	HPS	16000	150	Day	0.171	33.47	2.79	4,620	790	2.74	0.23	0.80	0.80	0.80	84	15.37	1,291
55	SL	330	HPS	22000	200	Day	0.229	44.82	3.74	4,620	1,058	3.67	0.31	0.80	0.80	0.80	344	16.40	5,642
56	SL	340	HPS	27500	250	Day	0.296	57.93	4.83	4,620	1,368	4.75	0.40	0.80	0.80	0.80	144	17.58	2,532
57	SL	350	HPS	50000	400	Day	0.482	94.34	7.86	4,620	2,227	7.73	0.60	0.80	0.80	0.80	1,708	20.85	35,612
58																			
59	SL	410	HPS	5800	70	24Hr	0.083	16.24	1.35	8,760	727	2.52	0.21	0.80	0.80	0.80	0	13.91	0
60	SL	420	HPS	16000	150	24Hr	0.171	33.47	2.79	8,760	1,498	5.20	0.43	0.80	0.80	0.80	1,854	15.57	28,867
61	SL	430	HPS	22000	200	24Hr	0.229	44.82	3.74	8,760	2,006	6.96	0.58	0.80	0.80	0.80	52	16.67	867
62	SL	440	HPS	27500	250	24Hr	0.296	57.93	4.83	8,760	2,593	9.00	0.75	0.80	0.80	0.80	0	17.93	0
63	SL	450	HPS	50000	400	24Hr	0.482	94.34	7.86	8,760	4,222	14.65	1.22	0.80	0.80	0.80	1,162	21.43	24,902
64																			
65																			
Total SL																	2,167,429	\$	34,765,011



Public Service Company of Colorado  
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 Street and Area Light Rate Design  
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Rate Design and Summary Revenue Reconciliation

Line No.	Class	Meter Description				Allocated Revenue Requirement per Typical Meter											
						Revenue Requirement		Annual cost per Meter			Monthly Cost per Meter						
						Lighting Facilities	*Low Income	Lighting Facilities	Meter	N/A	Lighting Facilities	Meter	Meter Reading	Low Income	Billing Cost	Total	
	Rate	Type	Size	Phase	Voltage	\$	\$	\$	\$		\$	\$	\$	\$	\$	\$	
1	<u>Lighting</u>																
2	MSL	kWh	SC	1Ph	Sec	-	206,493	\$ -	25.95			-	2.16	0.87	0.08	0.84	3.95
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10	Total MSL					3.95	0.05070	2,172	710,801	44,617							

Public Service Company of Colorado  
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System and Maintenance Costs Included in Monthly Rates

Line No.	Rate Sch.	Ref No.	Description of Lights				System Capacity Cost			System Energy Cost				Included Maintenance Cost			Months Annual Light Count	Facility Cost \$ / Month		Proposed Base Rate Revenue \$		
			Lamp Type	Lumen Rating	Lamp Watts	Burn Period	Connected Load kW	Cost/Unit @ 195.72 Annual \$	Cost/Unit @ 195.72 Monthly \$	Annual Burning Hours	Annual Energy kWh	Cost/Unit @ 0.00347 Annual \$	Cost/Unit @ 0.00347 Monthly \$	Routine (Lamp + LSC) Monthly \$	Non-Routine Monthly \$	Cost/Unit Monthly \$		Proposed Total Base Rate \$ / Month	11.55			
1			<b>SSL - Special Street Lighting</b>																			
2																						
3	SSL	010	MV	4200	100	Night	0.117	22.90	1.91	4,140	484	1.68	0.14	0.80		0.80	216	14.40	14.68	3,110		
4																						
5			Total SSL															216	14.40		3,110	
6																						
7			<b>COL - Customer Owned Lighting</b>																			
8																						
9	COL	010	HPS	9500	100	Night	0.117	22.90	1.91	4,140	484	1.68	0.14	0.80		0.80	383	2.93	2.99	1,122		
10	COL	020	HPS	16000	150	Night	0.171	33.47	2.79	4,140	708	2.46	0.21	0.80		0.80	3,233	3.88	3.96	12,543		
11	COL	030	HPS	22000	200	Night	0.229	44.82	3.74	4,140	948	3.29	0.27	0.80		0.80	23	4.89	4.99	110		
12	COL	040	HPS	27500	250	Night	0.296	57.93	4.83	4,140	1,225	4.25	0.35	0.80		0.80	2,951	6.06	6.18	17,884		
13	COL	050	HPS	37000	310	Night	0.379	74.18	6.18	4,140	1,569	5.44	0.45	0.80		0.80	34	7.51	7.66	254		
14	COL	060	HPS	50000	400	Night	0.482	94.34	7.86	4,140	1,995	6.92	0.58	0.80		0.80	15,422	9.32	9.50	143,725		
15	COL	070	HPS	140000	1000	Night	1.065	208.44	17.37	4,140	4,409	15.30	1.28	0.80		0.80	9,046	19.53	19.91	176,662		
16																						
17	COL	100	MH	4200	70	Night	0.083	16.24	1.35	4,140	344	1.19	0.10	0.72		0.72	0	2.25				
18	COL	102	MH	8500	100	Night	0.130	25.44	2.12	4,140	538	1.87	0.16	0.72		0.72	0	3.08				
19	COL	104	MH	14000	175	Night	0.213	41.69	3.47	4,140	882	3.06	0.26	0.72		0.72	0	4.53				
20	COL	106	MH	20500	250	Night	0.295	57.74	4.81	4,140	1,221	4.24	0.35	0.72		0.72	0	5.96				
21	COL	108	MH	36000	400	Night	0.457	89.44	7.45	4,140	1,892	6.57	0.55	0.72		0.72	0	8.80				
22	COL	110	MH	110000	1000	Night	1.090	213.33	17.78	4,140	4,513	15.66	1.31	0.72		0.72	288	19.89	20.27	5,728		
23																						
24	COL	210	HPS	27500	250	Day	0.296	57.93	4.83	4,620	1,368	4.75	0.40	0.80		0.80	6,396	6.11	6.23	39,077		
25	COL	220	HPS	50000	400	Day	0.482	94.34	7.86	4,620	2,227	7.73	0.64	0.80		0.80	0	9.38	9.57	0		
26																						
27	COL	310	HPS	27500	250	24Hr	0.296	57.93	4.83	8,760	2,593	9.00	0.75	0.80		0.80	4,704	6.46	6.59	30,386		
28	COL	320	HPS	50000	400	24Hr	0.482	94.34	7.86	8,760	4,222	14.65	1.22	0.80		0.80	0	9.96	10.16	0		
29																						
30			Total COL															42,480	130.53		427,490	
31																						
32			<b>SLU - Unincorporated Area Street Lighting</b>																			
33																						
34	SLU	010	HPS	9500	100	Night	0.117	22.90	1.91	4,140	484	1.68	0.14	0.80	1.05	1.85	83,284	2.19	2.24	182,392		
35																						
36	SLU	510	LED	4000	39	Night	0.039	7.63	0.64	4,140	161	0.56	0.05	0.80	1.05	1.85	6,278	2.00	2.05	12,556		
37																						
38	SLU	610	LED OPT A	4000	39	Night	0.039	7.63	0.64	4,140	161	0.56	0.05	0.80	1.05	1.85	0	2.55	2.61	0		
39																						
40			Total SLU																89,562	6.74		194,948
41																						
42																						
43																						

Public Service Company of Colorado  
 Electric Department  
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Rate Design and Summary Revenue Reconciliation

Line No.	Rate Sch.	Ref No.	Lamp		Connected kW	System Capacity and Energy Cost		Low Income \$	Total Rate \$	Pro Forma Annual Light Count/Mo.	Proposed Base Rate Revenue \$		
			Min. kWh	Max. kWh		Connected kWh	Cost/Unit @ 0.05070 Annual \$ Monthly \$						
1	<b>ESL - Street Lighting</b>												
2													
3	ESL	001	0.0	-	3.0	0.004	1.5	0.91	0.08	0.08	0.16	0	\$ -
4	ESL	002	3.1	-	6.0	0.013	4.6	2.77	0.23	0.08	0.31	24	7.43
5	ESL	003	6.1	-	9.0	0.022	7.6	4.59	0.38	0.08	0.46	1,835	843.23
6	ESL	004	9.1	-	12.0	0.031	10.6	6.42	0.54	0.08	0.62	737	456.59
7	ESL	005	12.1	-	15.0	0.039	13.6	8.24	0.69	0.08	0.77	1,872	1,440.55
8	ESL	006	15.1	-	18.0	0.048	16.6	10.07	0.84	0.08	0.92	432	397.24
9	ESL	007	18.1	-	21.0	0.057	19.6	11.89	0.99	0.08	1.07	2,508	2,682.37
10	ESL	008	21.1	-	24.0	0.065	22.6	13.72	1.14	0.08	1.22	96	117.07
11	ESL	009	24.1	-	27.0	0.074	25.6	15.54	1.30	0.08	1.38	238	328.33
12	ESL	010	27.1	-	30.0	0.083	28.6	17.37	1.45	0.08	1.53	2,550	3,900.29
13	ESL	011	30.1	-	33.0	0.091	31.6	19.20	1.60	0.08	1.68	1,128	1,894.51
14	ESL	012	33.1	-	36.0	0.100	34.6	21.02	1.75	0.08	1.83	0	-
15	ESL	013	36.1	-	39.0	0.109	37.6	22.85	1.90	0.08	1.98	240	475.09
16	ESL	014	39.1	-	42.0	0.118	40.6	24.67	2.06	0.08	2.14	7,284	15,584.31
17	ESL	015	42.1	-	45.0	0.126	43.6	26.50	2.21	0.08	2.29	0	-
18	ESL	016	45.1	-	48.0	0.135	46.6	28.32	2.36	0.08	2.44	120	292.74
19	ESL	017	48.1	-	51.0	0.144	49.6	30.15	2.51	0.08	2.59	48	124.30
20	ESL	018	51.1	-	54.0	0.152	52.6	31.97	2.66	0.08	2.74	168	460.24
21	ESL	019	54.1	-	57.0	0.161	55.6	33.80	2.82	0.08	2.90	0	-
22	ESL	020	57.1	-	60.0	0.170	58.6	35.62	2.97	0.08	3.05	192	585.51
23	ESL	021	60.1	-	63.0	0.178	61.6	37.45	3.12	0.08	3.20	0	-
24	ESL	022	63.1	-	66.0	0.187	64.6	39.27	3.27	0.08	3.35	0	-
25	ESL	023	66.1	-	69.0	0.196	67.6	41.10	3.43	0.08	3.51	0	-
26	ESL	024	69.1	-	72.0	0.205	70.6	42.92	3.58	0.08	3.66	0	-
27	ESL	025	72.1	-	75.0	0.213	73.6	44.75	3.73	0.08	3.81	984	3,748.57
28	ESL	026	75.1	-	78.0	0.222	76.6	46.57	3.88	0.08	3.96	0	-
29	ESL	027	78.1	-	81.0	0.231	79.6	48.40	4.03	0.08	4.11	1,143	4,697.19
30	ESL	028	81.1	-	84.0	0.239	82.6	50.22	4.19	0.08	4.27	0	-
31	ESL	029	84.1	-	87.0	0.248	85.6	52.05	4.34	0.08	4.42	60	265.17
32	ESL	030	87.1	-	90.0	0.257	88.6	53.87	4.49	0.08	4.57	1,404	6,415.62
33	ESL	031	90.1	-	93.0	0.265	91.6	55.70	4.64	0.08	4.72	0	-
34	ESL	032	93.1	-	96.0	0.274	94.6	57.52	4.79	0.08	4.87	69	336.00
35	ESL	033	96.1	-	99.0	0.283	97.6	59.35	4.95	0.08	5.03	0	-
36	ESL	034	99.1	-	102.0	0.291	100.6	61.17	5.10	0.08	5.18	3,240	16,781.67

Public Service Company of Colorado  
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Rate Design and Summary Revenue Reconciliation

Line No.	Rate Sch.	Ref No.	Lamp		Connected kW	System Capacity and Energy Cost		Low Income \$	Total Rate \$	Pro Forma Annual Light Count/Mo.	Proposed Base Rate Revenue \$		
			Min. kWh	Max. kWh		Connected kWh	Cost/Unit @ 0.05070 Annual \$ Monthly \$						
1	<b>ESL - Street Lighting</b>												
37	ESL	035	102.1	-	105.0	0.300	103.6	63.00	5.25	0.08	5.33	929	4,951.13
38	ESL	036	105.1	-	108.0	0.309	106.6	64.83	5.40	0.08	5.48	0	-
39	ESL	037	108.1	-	111.0	0.318	109.6	66.65	5.55	0.08	5.63	0	-
40	ESL	038	111.1	-	114.0	0.326	112.6	68.48	5.71	0.08	5.79	0	-
41	ESL	039	114.1	-	117.0	0.335	115.6	70.30	5.86	0.08	5.94	0	-
42	ESL	040	117.1	-	120.0	0.344	118.6	72.13	6.01	0.08	6.09	0	-
43	ESL	041	120.1	-	123.0	0.352	121.6	73.95	6.16	0.08	6.24	384	2,395.98
44	ESL	042	123.1	-	126.0	0.361	124.6	75.78	6.32	0.08	6.40	0	-
45	ESL	043	126.1	-	129.0	0.370	127.6	77.60	6.47	0.08	6.55	0	-
46	ESL	044	129.1	-	132.0	0.378	130.6	79.43	6.62	0.08	6.70	0	-
47	ESL	045	132.1	-	135.0	0.387	133.6	81.25	6.77	0.08	6.85	0	-
48	ESL	046	135.1	-	138.0	0.396	136.6	83.08	6.92	0.08	7.00	0	-
49	ESL	047	138.1	-	141.0	0.405	139.6	84.90	7.08	0.08	7.16	0	-
50	ESL	048	141.1	-	144.0	0.413	142.6	86.73	7.23	0.08	7.31	0	-
51	ESL	049	144.1	-	147.0	0.422	145.6	88.55	7.38	0.08	7.46	0	-
52	ESL	050	147.1	-	150.0	0.431	148.6	90.38	7.53	0.08	7.61	0	-
53	ESL	051	150.1	-	153.0	0.439	151.6	92.20	7.68	0.08	7.76	0	-
54	ESL	052	153.1	-	156.0	0.448	154.6	94.03	7.84	0.08	7.92	0	-
55	ESL	053	156.1	-	159.0	0.457	157.6	95.85	7.99	0.08	8.07	144	1,162.01
56	ESL	054	159.1	-	162.0	0.465	160.6	97.68	8.14	0.08	8.22	0	-
57	ESL	055	162.1	-	165.0	0.474	163.6	99.50	8.29	0.08	8.37	0	-
58	ESL	056	165.1	-	168.0	0.483	166.6	101.33	8.44	0.08	8.52	1,175	10,010.44
59	ESL	057	168.1	-	171.0	0.491	169.6	103.15	8.60	0.08	8.68	0	-
60	ESL	058	171.1	-	174.0	0.500	172.6	104.98	8.75	0.08	8.83	2,112	18,647.96
Total ESL											31,116.00	\$ 99,001.54	

Public Service Company of Colorado  
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 Street and Area Light Rate Design  
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LED Conversion Cost Rate Design

Line No.	Rate		Description of Lights			Capital Conversion Component										LED Light Count Mo.	LED Option in Base Rates
	Ref No.	Lamp Type	Lumen Rating	Lamp Watts	Burn Period	Existing Fixture Retirement	Salvage	Labor and Equipment	New Fixture Cost	LSC Cost	Material Overheads	Total Conversion Cost	Annual Revenue Requirement	Monthly Rate			
1	SL - Street Lighting																
4	610	LED OPT A	2750	29	Night	\$ 21.08	\$ (1.00)	\$ 138.54	\$ 180.92	\$ 14.33	\$ -	\$ 353.87	\$ 42.52	\$ 3.54	6,749	\$ 23,891.36	
5	620	LED OPT A	4000	39	Night	\$ 21.08	\$ (1.00)	\$ 138.54	\$ 210.93	\$ 14.33	\$ -	\$ 383.88	\$ 46.13	\$ 3.84	333,233	\$ 1,279,613.43	
6	625	LED OPT A	4000	50	Night	\$ 21.08	\$ (1.00)	\$ 138.54	\$ 379.18	\$ 14.33	\$ -	\$ 552.13	\$ 66.35	\$ 5.53	684	\$ 3,782.52	
7	630	LED OPT A	6000	65	Night	\$ 21.86	\$ (1.00)	\$ 138.54	\$ 331.77	\$ 14.33	\$ -	\$ 505.50	\$ 60.74	\$ 5.06	45,422	\$ 229,835.32	
8	640	LED OPT A	14000	155	Night	\$ 21.48	\$ (1.00)	\$ 138.54	\$ 263.52	\$ 14.33	\$ -	\$ 436.87	\$ 52.50	\$ 4.38	294,183	\$ 1,288,522.77	
9	650	LED OPT A	25000	246	Night	\$ 21.48	\$ (1.00)	\$ 138.54	\$ 449.95	\$ 14.33	\$ -	\$ 623.30	\$ 74.90	\$ 6.24	23,876	\$ 148,986.10	
10	660	LED OPT A	40000	320	Night	\$ 21.48	\$ (1.00)	\$ 138.54	\$ 1,095.51	\$ 14.33	\$ -	\$ 1,268.86	\$ 152.47	\$ 12.71	0	\$ -	
11	670	LED OPT A	55000	500	Night	\$ 21.48	\$ (1.00)	\$ 138.54	\$ 1,215.32	\$ 14.33	\$ -	\$ 1,388.67	\$ 166.87	\$ 13.91	0	\$ -	
12																	
13	710	LED OPT B	2750	29	Night	\$ 21.08	\$ (1.00)	\$ 79.81	\$ 180.92	\$ 14.33	\$ 16.36	\$ 311.50	\$ 15.47	\$ 1.29	1,395	\$ 1,799.55	
14	720	LED OPT B	4000	39	Night	\$ 21.08	\$ (1.00)	\$ 79.81	\$ 210.93	\$ 14.33	\$ 19.07	\$ 344.22	\$ 17.10	\$ 1.43	22,180	\$ 31,717.65	
15	725	LED OPT B	4000	50	Night	\$ 21.86	\$ (1.00)	\$ 79.81	\$ 379.18	\$ 14.33	\$ 34.28	\$ 528.46	\$ 26.25	\$ 2.19	120	\$ 262.73	
16	730	LED OPT B	6000	65	Night	\$ 21.86	\$ (1.00)	\$ 79.81	\$ 331.77	\$ 14.33	\$ 29.99	\$ 476.76	\$ 23.68	\$ 1.97	14,216	\$ 28,005.89	
17	740	LED OPT B	14000	155	Night	\$ 21.48	\$ (1.00)	\$ 79.81	\$ 263.52	\$ 14.33	\$ 23.82	\$ 401.96	\$ 19.97	\$ 1.66	16,428	\$ 27,269.94	
18	750	LED OPT B	25000	246	Night	\$ 21.86	\$ (1.00)	\$ 79.81	\$ 449.95	\$ 14.33	\$ 40.68	\$ 605.63	\$ 30.08	\$ 2.51	6,802	\$ 17,071.97	
19	760	LED OPT B	25000	246	Night	\$ 21.48	\$ (1.00)	\$ 79.81	\$ 1,095.51	\$ 14.33	\$ 99.03	\$ 1,309.16	\$ 65.03	\$ 5.42	0	\$ -	
20	770	LED OPT B	55000	500	Night	\$ 21.48	\$ (1.00)	\$ 79.81	\$ 1,215.32	\$ 14.33	\$ 109.86	\$ 1,439.80	\$ 71.52	\$ 5.96	48	\$ 286.08	
21																	
22	Calculation of Depreciated Material Replacement Cost of Cobra Heads Detail										A	B	C	D			
23				Handy	Handy	Original	Condition	Undepreciated	Undepreciated								
24				Witman	Witman	Installed	Percent	Replacement	Original	Retirement							
25	Description	Date Installed (1)	Replacement Cost (3)	Index Vintage	Index Current	Cost		Cost	Cost	Cost							
26	100W - 54005 (2)	1992	\$ 116.59	302	694	\$ 50.74	27.37%	\$ 31.92	\$ 13.89	\$ 21.08							
27	150W - 54024	1992	\$ 123.13	302	694	\$ 53.58	27.37%	\$ 33.71	\$ 14.67	\$ 21.86							
28	250W - 54042 (2)	1992	\$ 119.91	302	694	\$ 52.18	27.37%	\$ 32.82	\$ 14.28	\$ 21.48							
29	Long life p/c - 216296	1992	\$ 60.38	302	694	\$ 26.27	27.37%	\$ 16.53	\$ 7.19								
30																	
31																	
32																	
33	(1) Average Age at 22 years																
34	(2) No data available for 70 and 400W cobrahead fixtures, proxy using 100W and 250W																
35	(3) average unit prices for HPS cobra heads																
36																	
37	Lighting Revenue Requirements Detail																
38		Option A		Option B													
39																	
40	Distribution Operation and Maintenance (1)	0.07383605	-	0.07383605	-												
41																	
42	Property Tax	0.01615117	0.01615117	0.01615117	0.01615117												
43																	
44	Property Insurance	0.00053531	0.00053531	0.00053531	0.00053531												
45																	
46	Administrative and General	0.01631270	0.01631270	0.01631270	0.01631270												
47																	
48	Reserve for Replacement	0.02792229	0.02792229	0.02792229	-												
49																	
50	Return on Rate Base and Income Taxes	0.05924550	0.05924550	0.05924550	0.01667220												
51																	
52	Total Revenue Requirement Percentage	0.19400302	0.12016697	0.19400302	0.04967138 (2)												
53																	
54	(1) Allocation is zero due to no incremental cost of Distribution O&M as a result from additional LED lighting fixtures																
55	(2) Includes only Income Taxes.																
56																	
57	Labor and Equipment Detail - Option A																
58																	
59	Bld - 2 Person Crew																
60																	
61	\$		138.54														

62

**Labor and Equipment Detail - Option B**

63

**Tariff Rates**

64

		Bucket	Travel	Traffic	Light	
	Labor Rate (2 person crew)	Truck	Costs	Control	Conversion	Per Light
					Rate	Cost
65						
66						
67	\$ 138.54	\$ 28.86	\$ 10.15	\$ 21.98	2.50	79.81
68						

**Material Overheads Detail**

69

**Tariff Rates**

70

71

72

73

	Lumen Rating	Fixture	Materials	Materials
		Cost	Overhead	Overhead
				Cost
74	2750	\$ 180.92	9.04%	\$ 16.36
75	4000	\$ 210.93	9.04%	\$ 19.07
76	4000	\$ 379.18	9.04%	\$ 34.28
77	6000	\$ 331.77	9.04%	\$ 29.99
78	14000	\$ 263.52	9.04%	\$ 23.82
79	25000	\$ 449.95	9.04%	\$ 40.68
80	40000	\$ 1,095.51	9.04%	\$ 99.03
81	55000	\$ 1,215.32	9.04%	\$ 109.86

Public Service Company of Colorado  
 Electric Department  
 Street and Area Light Rate Design  
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**Average Non-Routine Maintenance Cost Determination**

Line No.	Description of Lights			Monthly Average Maintenance Cost		
	Lamp Type	Lumen Rating	Lamp Watts	Non-Routine \$/Month	Routine \$/Month	Total \$/Month
1	<b><u>RAL - CAL</u></b>					
2						
3	HPS	9500	100	1.05		
4	HPS	27500	250	1.05		
5	HPS	50000	400	1.05		
6						
7	<b><u>SLU</u></b>					
8						
9	HPS	9500	100	1.05		
10						
11						
12	<b><u>Non-Routine Maintenance In Base Rates</u></b>					
13						
14						
15						
16	Rate		Number of	Billed	Billed	Billed
17	Class		Customers	Non- Routine	Non- Routine	Non- Routine
18				Maint. Costs	Maint. Costs	Maint. Costs
19				\$	\$/Year	\$/Year
20	RAL		4,578			\$ 57,683
21	CAL		17,930			\$ 225,918
22	SLU		1,060			\$ 13,356
23	Subtotal		23,568			\$ 296,957
24						
25	PLL		5,769			
26	SL		180,619			
27	SSL		18			
28	COL - Cust Owned		0			
29	Subtotal		186,406	\$ 2,345,881	12.58	1.05

Public Service Company of Colorado  
 Electric Department  
 Street and Area Light Rate Design  
 Test Year 2023

Cost of Relamp Program - By Lamp Type

Lamp Type	Total Annual Cost	Maintenance		No. of Lights	Yrly. Rate	Monthly Rate
		Percentage				
High Pressure Sodium (HPS)	\$ 1,197,989.89	96.0%		124,677	9.61	0.80
Metal Halide (MH)	\$ 34,941.37	2.8%		4,023.00	8.69	0.72
Compact Fluorescent (FL)	\$ 12,479.06	1.0%		1,484.00	8.41	0.70
*Mercury Vapor (MV)	\$ -	0.0%		18.00	9.61	0.80
*Induction Lamps (QL)	\$ 2,495.81	0.2%		734.00	3.40	0.28
	<u>1,247,906.14</u>	<u>100.0%</u>		<u>130,936</u>		

Lamp Type	RAL	CAL	PLL	SL	SSL	COL	SLU	Total	
								Annual Months	Total
High Pressure Sodium (HPS)	52,901	181,734	50,084	1,085,928	N/A	42,192	83,284	1,496,123	124,677
Metal Halide (MH)	N/A	N/A	N/A	47,984	N/A	288	N/A	48,272	4,023
Compact Fluorescent (FL)	N/A	N/A	N/A	17,802	N/A	N/A	N/A	17,802	1,484
*Mercury Vapor (MV)	N/A	N/A	N/A	N/A	216	N/A	N/A	216	18
*Induction Lamps (QL)	N/A	N/A	N/A	8,808	N/A	N/A	N/A	8,808	734