SIMULACIÓN CÁLCULO COSTOS RESOLUCIÓN CREG 101013 DE 2022 –

SONSÓN JUNIO 2025

LIQUIDACION CREG 101013 DE 2022
ALUMBRADO PÚBLICO MUNICIPIO DE SONSON ANTIOQUIA

ALUMBRADO PUBLICO	**LIQUIDACION CREG 101013 INVENTARIO ACTUAL**	r=	12,09%	**MES DE LIQUIDACION**	**JUNIO 2025**
		VCEEIn=	0	**INDICE ACTUALIZACION PRECIO**	1,00
		ID encendidas=	1	VALOR A PAGAR AOM	15.875.276
		ID apagadas	1	FAOML	8,0%
		costos ambientales	5,00%	COSTOS AMBIENTALES ANUALES	**9.525.166**
MUNICIPIO SONSON		FAOMn	4,00%	COSTOS AMBIENTALES MENSUALES	**793.764**
		IPPo JuNIO 2025	1,00	VALOR A PAGAR INV	**1.534.964**
		IPP(m-1) JUNIO 2025	1	**VALOR TOTAL A PAGAR**	**18.204.004**

UNIDADES CONSTRUCTIVAS			CANTIDADES UCAPS								CAOM			CINV		
Descripción	**Unidad**	**Vida Util Años**	**V/Unit.**	**k .= Factor Ajuste Eficacia**	**V/ Unt *k**	**Modernización**	**Expansión**	**Cantidades Mpio Y Otros**	**Total Cantidades UCAPs**	**Valor UCAPs**	**CAOM Anual**	**CAOM Mensual**	**Valor Total UCAPs**	**CINV Anual**	**CINV Mensual**
Luminarias Existentes	**Un.**					**0**	**0**	**1.466**	**1.466**	**$1.014.906.939**	**$81.192.555**	**$6.766.046**	**$0**	**$6.138.917**	**$511.576**
Luminaria de Sodio 70 W Existente	Un.	15	$ 654.921	1	$654.921			1210	1.210	$792.454.156	$63.396.332	$5.283.028	$0	$4.793.356	$399.446
Luminaria Ornamental de Sodio 70 W Existente	Un.	15	$ 860.255	1	$860.255			235	235	$202.159.880	$16.172.790	$1.347.733	$0	$1.222.814	$101.901
Proyector de Sodio 150 W Existente	Un.	15	$ 901.171	1	$901.171			7	7	$6.308.194	$504.656	$42.055	$0	$38.157	$3.180
Proyector de Sodio 400 W Existente	Un.	15	$ 1.028.895	1	$1.028.895			2	2	$2.057.790	$164.623	$13.719	$0	$12.447	$1.037
Proyector Metal Halide 400 W Existente	Un.	15	$ 1.045.223	1	$1.045.223			10	10	$10.452.228	$836.178	$69.682	$0	$63.223	$5.269
Proyector Metal Halide 250 W Existente	Un.	15	$ 923.862	1	$923.862			1	1	$923.862	$73.909	$6.159	$0	$5.588	$466
Luminaria Mercurio 125 W Existente	Un.	15	$ 550.830	1	$550.830			1	1	$550.830	$44.066	$3.672	$0	$3.332	$278
Luminarias led existentes	**Un.**					**0**	**0**	**445**	**445**	**$709.717.425**	**$56.777.394**	**$4.731.449**	**$0**	**$4.292.902**	**$357.742**
Luminaria LED de 40 W Existente	Un.	15	$ 1.519.363	1	$1.519.363			214	214	$325.143.637	$26.011.491	$2.167.624	$0	$1.966.712	$163.893
Luminaria LED de 50 W Existente	Un.	15	$ 1.701.012	1	$1.701.012			102	102	$173.503.203	$13.880.256	$1.156.688	$0	$1.049.477	$87.456
Luminaria LED de 60 W Existente	Un.	15	$ 1.756.119	1	$1.756.119			15	15	$26.341.782	$2.107.343	$175.612	$0	$159.335	$13.278
Luminaria LED de 90 W Existente	Un.	15	$ 1.820.175	1	$1.820.175			6	6	$10.921.049	$873.684	$72.807	$0	$66.059	$5.505
Luminaria LED de 100 W Existente	Un.	15	$ 1.946.089	1	$1.946.089			54	54	$105.088.795	$8.407.104	$700.592	$0	$635.656	$52.971
Luminaria LED de 180 W Existente	Un.	15	$ 2.134.175	1	$2.134.175			5	5	$10.670.874	$853.670	$71.139	$0	$64.545	$5.379
Proyector LED de 100 W Existente	Un.	15	$ 1.594.095	1	$1.594.095			7	7	$11.158.664	$892.693	$74.391	$0	$67.496	$5.625
Proyector LED de 50 W Existente	Un.	15	$ 1.109.593	1	$1.109.593			31	31	$34.397.376	$2.751.790	$229.316	$0	$208.061	$17.338
Proyector LED de 30 W Existente	Un.	15	$ 826.993	1	$826.993			6	6	$4.961.957	$396.957	$33.080	$0	$30.014	$2.501
Luminaria Ornamental LED de 100 W Existente	Un.	15	$ 1.506.018	1	$1.506.018			5	5	$7.530.089	$602.407	$50.201	$0	$45.548	$3.796
Bombillos	**Un.**					**0**	**0**	**1.466**	**1.466**	**$126.021.953**	**$5.040.878**	**$420.073**	**$0**	**$1.896.878**	**$158.073**
Bombilla Sodio 70 W	Un.	3,5	$ 85.628					1445	1.445	$123.732.171	$4.949.287	$412.441	$0	$1.862.413	$155.201
Bombilla Sodio 150 W	Un.	3,5	$ 93.321					7	7	$653.246	$26.130	$2.177	$0	$9.833	$819
Bombilla Sodio 400 W	Un.	3,5	$ 116.714					2	2	$233.428	$9.337	$778	$0	$3.514	$293
Bombilla Metal Halide 250 W	Un.	3,5	$ 107.608					1	1	$107.608	$4.304	$359	$0	$1.620	$135
Bombilla Metal Halide 400 W	Un.	3,5	$ 117.486					10	10	$1.174.862	$46.994	$3.916	$0	$17.684	$1.474
Bombilla Mercurio 125 W	Un.	3,5	$ 120.639					1	1	$120.639	$4.826	$402	$0	$1.816	$151
Brazos	**Un.**					**0**	**0**	**1.607**	**1.607**	**$319.915.132**	**$12.796.605**	**$1.066.384**	**$0**	**$1.639.198**	**$136.600**
Brazo Galvanizado 1 1/2" X 1,5 MTS	Un.	30	$ 199.076					1607	1.607	$319.915.132	$12.796.605	$1.066.384	$0	$1.639.198	$136.600
Postes	**Un.**					**0**	**0**	**295**	**295**	**$373.956.259**	**$14.958.250**	**$1.246.521**	**$0**	**$1.916.096**	**$159.675**
Poste concreto 5 mts	Un.	30	$1.316.602					23	23	$30.281.846	$1.211.274	$100.939	$0	$155.160	$12.930
Poste concreto 8 mts	Un.	30	$1.564.034					18	18	$28.152.612	$1.126.104	$93.842	$0	$144.250	$12.021
Tubo metalico 8m x 6"	Un.	30	$1.781.008					58	58	$103.298.464	$4.131.939	$344.328	$0	$529.286	$44.107
Tubo metalico 5m x 5"	Un.	30	$1.473.288					6	6	$8.839.728	$353.589	$29.466	$0	$45.293	$3.774
Tubo metalico 3m x 3"	Un.	30	$1.002.288					146	146	$146.334.048	$5.853.362	$487.780	$0	$749.794	$62.483
Poste metálico 8 mts	Un.	30	$2.935.115					7	7	$20.545.805	$821.832	$68.486	$0	$105.274	$8.773
Poste madera 8 mts	Un.	30	$986.588					37	37	$36.503.756	$1.460.150	$121.679	$0	$187.040	$15.587
Transformadores	**Un.**					**0**	**0**	**1**	**1**	**$18.330.927**	**$733.237**	**$61.103**	**$0**	**$101.187**	**$8.432**
Transformador Monofasico 15kVA	Un.	20	$18.330.927,01					1	1	$18.330.927	$733.237	$61.103	$0	$101.187	$8.432
CAJAS DE PASO	**Un.**					**0**	**0**	**165**	**165**	**$45.569.486**	**$1.822.779**	**$151.898**	**$0**	**$233.491**	**$19.458**
Cajas de Paso 40x40 AP	Un.	30	$276.178,70					165	165	$45.569.486	$1.822.779	$151.898	$0	$233.491	$19.458
Redes aéreas y subterráneas	**Un.**					**0**	**0**	**11.940,00**	**11.940,00**	**$429.540.316**	**$17.181.613**	**$1.431.801**	**$0**	**$2.200.901**	**$183.408**
Cable de Aluminio Aislado # 6 aereo, 2 conductores	ml	30	$51.091					630	630	$32.187.577	$1.287.503	$107.292	$0	$164.924	$13.744
Cable de Aluminio Aislado # 10 aereo, 2 conductores	ml	30	$46.381					165	165	$7.652.930	$306.117	$25.510	$0	$39.212	$3.268
Cable de Cobre Aislado # 8 subterráneo, 2 conductores	ml	30	$39.386					3798	3.798	$149.588.281	$5.983.531	$498.628	$0	$766.468	$63.872
Cable de Cobre Aislado # 10 subterráneo, 2 conductores	ml	30	$35.759					2781	2.781	$99.446.799	$3.977.872	$331.489	$0	$509.551	$42.463
Cable de Cobre Aislado # 12 aerero, 2 conductores	ml	30	$30.807					4566	4.566	$140.664.729	$5.626.589	$468.882	$0	$720.745	$60.062
								Total Costo(Pesos JUNIO 2025)		**$3.037.958.436**	**$190.503.312**	**$15.875.276**	**$0**	**$18.419.571**	**$1.534.964**

LIQUIDACION CREG 101013 DE 2022
ALUMBRADO PÚBLICO MUNICIPIO DE SONSON ANTIOQUIA

ALUMBRADO PUBLICO

MUNICIPIO SONSON

LIQUIDACION CREG 101013 INVENTARIO ACTUAL

r=	12,09%	MES DE LIQUIDACION	JUNIO 2025
VCEEIn=	0	INDICE ACTUALIZACION PRECIO	1,00
ID encendidas=	1	VALOR A PAGAR AOM	39.432.663
ID apagadas	1	FAOML	8,0%
costos ambientales	5,00%	COSTOS AMBIENTALES ANUALES	**23.659.598**
FAOMn	4,00%	COSTOS AMBIENTALES MENSUALES	**1.971.633**
IPPo JuNIO 2025	1,00	VALOR A PAGAR INV	**76.285.604**
IPP(m-1) JUNIO 2025	1	**VALOR TOTAL A PAGAR**	**117.689.900**

UNIDADES CONSTRUCTIVAS			CANTIDADES UCAPS								CAOM			CINV		
Descripción	Unidad	Vida Util Años	V/Unit.	k .= Factor Ajuste Eficacia	V/ Unt *k	Modernización	Expansión	Cantidades Mpio Y Otros	Total Cantidades UCAPs	Valor UCAPs	CAOM Anual	CAOM Mensual	Valor Total UCAPs	CINV Anual	CINV Mensual
Luminarias led Nuevas	**Un.**					**1.466**	**359**	**0**	**1.825**	**$4.214.509.583**	**$337.160.767**	**$28.096.731**	**$5.057.411.499**	**$771.614.751**	**$64.301.229**
Luminaria LED de 35W NUEVA	Un.	15	$ 1.918.075	1,2	$2.301.690	1.064	187		1.251	$2.399.512.175	$191.960.974	$15.996.748	$2.879.414.610	$439.315.406	$36.609.617
Luminaria LED ORNAMENTAL de 35W NUEVA	Un.	15	$ 3.223.337	1,2	$3.868.005	235			235	$757.484.235	$60.598.739	$5.049.895	$908.981.082	$138.684.228	$11.557.019
Luminaria LED de 60W NUEVA	Un.	15	$ 2.437.106	1,2	$2.924.528		24		24	$58.490.551	$4.679.244	$389.937	$70.188.661	$10.708.760	$892.397
Luminaria LED de 80W NUEVA	Un.	15	$ 2.697.177	1,2	$3.236.612	167			167	$450.428.524	$36.034.282	$3.002.857	$540.514.229	$82.466.841	$6.872.237
Luminaria LED de 120W NUEVA	Un.	15	$ 3.089.452	1,2	$3.707.343		48		48	$148.293.709	$11.863.497	$988.625	$177.952.451	$27.150.398	$2.262.533
PROYECTOR LED 400W NUEVO	Un.	15	$ 4.003.004	1,2	$4.803.605		100		100	$400.300.388	$32.024.031	$2.668.669	$480.360.466	$73.289.117	$6.107.426
Luminarias Existentes	**Un.**					**0**	**0**	**0**	**0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**
Luminaria de Sodio 70 W Existente	Un.	15	$ 654.921	1	$654.921				0	$0	$0	$0	$0	$0	$0
Luminaria Ornamental de Sodio 70 W Existente	Un.	15	$ 860.255	1	$860.255				0	$0	$0	$0	$0	$0	$0
Proyector de Sodio 150 W Existente	Un.	15	$ 901.171	1	$901.171				0	$0	$0	$0	$0	$0	$0
Proyector de Sodio 400 W Existente	Un.	15	$ 1.028.895	1	$1.028.895				0	$0	$0	$0	$0	$0	$0
Proyector Metal Halide 400 W Existente	Un.	15	$ 1.045.223	1	$1.045.223				0	$0	$0	$0	$0	$0	$0
Proyector Metal Halide 250 W Existente	Un.	15	$ 923.862	1	$923.862				0	$0	$0	$0	$0	$0	$0
Luminaria Mercurio 125 W Existente	Un.	15	$ 550.830	1	$550.830				0	$0	$0	$0	$0	$0	$0
Luminarias led existentes	**Un.**					**0**	**0**	**445**	**445**	**$709.717.425**	**$56.777.394**	**$4.731.449**	**$0**	**$4.292.902**	**$357.742**
Luminaria LED de 40 W Existente	Un.	15	$ 1.519.363	1	$1.519.363			214	214	$325.143.637	$26.011.491	$2.167.624	$0	$1.966.712	$163.893
Luminaria LED de 50 W Existente	Un.	15	$ 1.701.012	1	$1.701.012			102	102	$173.503.203	$13.880.256	$1.156.688	$0	$1.049.477	$87.456
Luminaria LED de 60 W Existente	Un.	15	$ 1.756.119	1	$1.756.119			15	15	$26.341.782	$2.107.343	$175.612	$0	$159.335	$13.278
Luminaria LED de 90 W Existente	Un.	15	$ 1.820.175	1	$1.820.175			6	6	$10.921.049	$873.684	$72.807	$0	$66.059	$5.505
Luminaria LED de 100 W Existente	Un.	15	$ 1.946.089	1	$1.946.089			54	54	$105.088.795	$8.407.104	$700.592	$0	$635.656	$52.971
Luminaria LED de 180 W Existente	Un.	15	$ 2.134.175	1	$2.134.175			5	5	$10.670.874	$853.670	$71.139	$0	$64.545	$5.379
Proyector LED de 100 W Existente	Un.	15	$ 1.594.095	1	$1.594.095			7	7	$11.158.664	$892.693	$74.391	$0	$67.496	$5.625
Proyector LED de 50 W Existente	Un.	15	$ 1.109.593	1	$1.109.593			31	31	$34.397.376	$2.751.790	$229.316	$0	$208.061	$17.338
Proyector LED de 30 W Existente	Un.	15	$ 826.993	1	$826.993			6	6	$4.961.957	$396.957	$33.080	$0	$30.014	$2.501
Luminaria Ornamental LED de 100 W Existente	Un.	15	$ 1.506.018	1	$1.506.018			5	5	$7.530.089	$602.407	$50.201	$0	$45.548	$3.796
Bombillos	**Un.**					**0**	**0**	**0**	**0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**
Bombilla Sodio 70 W	Un.	3,5	$ 85.628						0	$0	$0	$0	$0	$0	$0
Bombilla Sodio 150 W	Un.	3,5	$ 93.321						0	$0	$0	$0	$0	$0	$0
Bombilla Sodio 400 W	Un.	3,5	$ 116.714						0	$0	$0	$0	$0	$0	$0
Bombilla Metal Halide 250 W	Un.	3,5	$ 107.608						0	$0	$0	$0	$0	$0	$0
Bombilla Metal Halide 400 W	Un.	3,5	$ 117.486						0	$0	$0	$0	$0	$0	$0
Bombilla Mercurio 125 W	Un.	3,5	$ 120.639						0	$0	$0	$0	$0	$0	$0
Brazos	**Un.**					**1.231**	**259**	**396**	**1.886**	**$375.457.336**	**$15.018.293**	**$1.251.524**	**$296.623.240**	**$38.993.384**	**$3.249.449**
Brazo Galvanizado 1 1/2" X 1,5 MTS	Un.	30	$ 199.076			1.231	259	396	1.886	$375.457.336	$15.018.293	$1.251.524	$296.623.240	$38.993.384	$3.249.449
Postes	**Un.**					**0**	**198**	**295**	**493**	**$745.477.605**	**$29.819.104**	**$2.484.925**	**$371.521.346**	**$50.249.478**	**$4.187.457**
Poste concreto 5 mts	Un.	30	$1.316.602					23	23	$30.281.846	$1.211.274	$100.939	$0	$155.160	$12.930
Poste concreto 8 mts	Un.	30	$1.564.034					18	18	$28.152.612	$1.126.104	$93.842	$0	$144.250	$12.021
POSTE 9 M CONCRETO NUEVO	Un.	30	$1.756.987				166		166	$291.659.842	$11.666.394	$972.199	$291.659.842	$37.943.732	$3.161.978
POSTE 12 M CONCRETO NUEVO	Un.	30	$2.495.672				32		32	$79.861.504	$3.194.460	$266.205	$79.861.504	$10.389.649	$865.804
Tubo metalico 8m x 6"	Un.	30	$1.781.008					58	58	$103.298.464	$4.131.939	$344.328	$0	$529.286	$44.107
Tubo metalico 5m x 5"	Un.	30	$1.473.288					6	6	$8.839.728	$353.589	$29.466	$0	$45.293	$3.774
Tubo metalico 3m x 3"	Un.	30	$1.002.288					146	146	$146.334.048	$5.853.362	$487.780	$0	$749.794	$62.483
Poste metálico 8 mts	Un.	30	$2.935.115					7	7	$20.545.805	$821.832	$68.486	$0	$105.274	$8.773
Poste madera 8 mts	Un.	30	$986.588					37	37	$36.503.756	$1.460.150	$121.679	$0	$187.040	$15.587
Transformadores	**Un.**					**0**	**0**	**1**	**1**	**$18.330.927**	**$733.237**	**$61.103**	**$0**	**$101.187**	**$8.432**
Transformador Monofasico 15kVA	Un.	20	$18.330.927,01					1	1	$18.330.927	$733.237	$61.103	$0	$101.187	$8.432
CAJAS DE PASO	**Un.**					**0**	**0**	**165**	**165**	**$45.569.486**	**$1.822.779**	**$151.898**	**$0**	**$233.491**	**$19.458**
Cajas de Paso 40x40 AP	Un.	30	$276.178,70					165	165	$45.569.486	$1.822.779	$151.898	$0	$233.491	$19.458
Redes aéreas y subterráneas	**Un.**					**0**	**6.530**	**11.940,00**	**18.470,00**	**$796.509.400**	**$31.860.376**	**$2.655.031**	**$366.969.084**	**$49.942.052**	**$4.161.838**
Cable de Aluminio Aislado # 6 aereo, 2 conductores	ml	30	$51.091					630	630	$32.187.577	$1.287.503	$107.292	$0	$164.924	$13.744
Cable de Aluminio Aislado # 10 aereo, 2 conductores	ml	30	$46.381					165	165	$7.652.930	$306.117	$25.510	$0	$39.212	$3.268
Cable AL Triplex 2x4+4 AWG AAC NUEVO	ml	30	$56.197				6.530		6.530	$366.969.084	$14.678.763	$1.223.230	$366.969.084	$47.741.151	$3.978.429
Cable de Cobre Aislado # 8 subterráneo, 2 conductores	ml	30	$39.386					3798	3.798	$149.588.281	$5.983.531	$498.628	$0	$766.468	$63.872
Cable de Cobre Aislado # 10 subterráneo, 2 conductores	ml	30	$35.759					2781	2.781	$99.446.799	$3.977.872	$331.489	$0	$509.551	$42.463
Cable de Cobre Aislado # 12 aerero, 2 conductores	ml	30	$30.807					4566	4.566	$140.664.729	$5.626.589	$468.882	$0	$720.745	$60.062
								Total Costo(Pesos JUNIO 2025)		**$6.905.571.760**	**$473.191.951**	**$39.432.663**	**$6.092.525.169**	**$915.427.247**	**$76.285.604**

LIQUIDACION CREG 101013 DE 2022
ALUMBRADO PÚBLICO MUNICIPIO DE SONSON ANTIOQUIA

ALUMBRADO PUBLICO	**LIQUIDACION CREG 101013 INVENTARIO ACTUAL**	r=	12,09%	**MES DE LIQUIDACION**	**JUNIO 2025**
		VCEEIn=	0	**INDICE ACTUALIZACION PRECIO**	1,00
		ID encendidas=	1	VALOR A PAGAR AOM	24.947.211
		ID apagadas	1	FAOML	8,0%
		costos ambientales	5,00%	COSTOS AMBIENTALES ANUALES	**14.968.327**
MUNICIPIO SONSON		FAOMn	4,00%	COSTOS AMBIENTALES MENSUALES	**1.247.361**
		IPPo JuNIO 2025	1,00	VALOR A PAGAR INV	**24.834.938**
		IPP(m-1) JUNIO 2025	1	**VALOR TOTAL A PAGAR**	**51.029.510**

UNIDADES CONSTRUCTIVAS			CANTIDADES UCAPS								CAOM			CINV		
Descripción	**Unidad**	**Vida Util Años**	**V/Unit.**	**k .= Factor Ajuste Eficacia**	**V/ Unt *k**	**Modernización**	**Expansión**	**Cantidades Mpio Y Otros**	**Total Cantidades UCAPs**	**Valor UCAPs**	**CAOM Anual**	**CAOM Mensual**	**Valor Total UCAPs**	**CINV Anual**	**CINV Mensual**
Luminarias led Nuevas	**Un.**					**0**	**359**	**0**	**359**	**$965.764.726**	**$77.261.178**	**$6.438.432**	**$1.158.917.671**	**$176.817.325**	**$14.734.777**
Luminaria LED de 35W NUEVA	Un.	15	$ 1.918.075	1,2	$2.301.690		187		187	$358.680.077	$28.694.406	$2.391.201	$430.416.093	$65.669.050	$5.472.421
Luminaria LED de 60W NUEVA	Un.	15	$ 2.437.106	1,2	$2.924.528		24		24	$58.490.551	$4.679.244	$389.937	$70.188.661	$10.708.760	$892.397
Luminaria LED de 120W NUEVA	Un.	15	$ 3.089.452	1,2	$3.707.343		48		48	$148.293.709	$11.863.497	$988.625	$177.952.451	$27.150.398	$2.262.533
PROYECTOR LED 400W NUEVO	Un.	15	$ 4.003.004	1,2	$4.803.605		100		100	$400.300.388	$32.024.031	$2.668.669	$480.360.466	$73.289.117	$6.107.426
Luminarias Existentes	**Un.**					**0**	**0**	**1.466**	**1.466**	**$1.014.906.939**	**$81.192.555**	**$6.766.046**	**$0**	**$6.138.917**	**$511.576**
Luminaria de Sodio 70 W Existente	Un.	15	$ 654.921	1	$654.921			1210	1.210	$792.454.156	$63.396.332	$5.283.028	$0	$4.793.356	$399.446
Luminaria Ornamental de Sodio 70 W Existente	Un.	15	$ 860.255	1	$860.255			235	235	$202.159.880	$16.172.790	$1.347.733	$0	$1.222.814	$101.901
Proyector de Sodio 150 W Existente	Un.	15	$ 901.171	1	$901.171			7	7	$6.308.194	$504.656	$42.055	$0	$38.157	$3.180
Proyector de Sodio 400 W Existente	Un.	15	$ 1.028.895	1	$1.028.895			2	2	$2.057.790	$164.623	$13.719	$0	$12.447	$1.037
Proyector Metal Halide 400 W Existente	Un.	15	$ 1.045.223	1	$1.045.223			10	10	$10.452.228	$836.178	$69.682	$0	$63.223	$5.269
Proyector Metal Halide 250 W Existente	Un.	15	$ 923.862	1	$923.862			1	1	$923.862	$73.909	$6.159	$0	$5.588	$466
Luminaria Mercurio 125 W Existente	Un.	15	$ 550.830	1	$550.830			1	1	$550.830	$44.066	$3.672	$0	$3.332	$278
Luminarias led existentes	**Un.**					**0**	**0**	**445**	**445**	**$709.717.425**	**$56.777.394**	**$4.731.449**	**$0**	**$4.292.902**	**$357.742**
Luminaria LED de 40 W Existente	Un.	15	$ 1.519.363	1	$1.519.363			214	214	$325.143.637	$26.011.491	$2.167.624	$0	$1.966.712	$163.893
Luminaria LED de 50 W Existente	Un.	15	$ 1.701.012	1	$1.701.012			102	102	$173.503.203	$13.880.256	$1.156.688	$0	$1.049.477	$87.456
Luminaria LED de 60 W Existente	Un.	15	$ 1.756.119	1	$1.756.119			15	15	$26.341.782	$2.107.343	$175.612	$0	$159.335	$13.278
Luminaria LED de 90 W Existente	Un.	15	$ 1.820.175	1	$1.820.175			6	6	$10.921.049	$873.684	$72.807	$0	$66.059	$5.505
Luminaria LED de 100 W Existente	Un.	15	$ 1.946.089	1	$1.946.089			54	54	$105.088.795	$8.407.104	$700.592	$0	$635.656	$52.971
Luminaria LED de 180 W Existente	Un.	15	$ 2.134.175	1	$2.134.175			5	5	$10.670.874	$853.670	$71.139	$0	$64.545	$5.379
Proyector LED de 100 W Existente	Un.	15	$ 1.594.095	1	$1.594.095			7	7	$11.158.664	$892.693	$74.391	$0	$67.496	$5.625
Proyector LED de 50 W Existente	Un.	15	$ 1.109.593	1	$1.109.593			31	31	$34.397.376	$2.751.790	$229.316	$0	$208.061	$17.338
Proyector LED de 30 W Existente	Un.	15	$ 826.993	1	$826.993			6	6	$4.961.957	$396.957	$33.080	$0	$30.014	$2.501
Luminaria Ornamental LED de 100 W Existente	Un.	15	$ 1.506.018	1	$1.506.018			5	5	$7.530.089	$602.407	$50.201	$0	$45.548	$3.796
Bombillos	**Un.**					**0**	**0**	**1.466**	**1.466**	**$126.021.953**	**$5.040.878**	**$420.073**	**$0**	**$1.896.878**	**$158.073**
Bombilla Sodio 70 W	Un.	3,5	$ 85.628					1445	1.445	$123.732.171	$4.949.287	$412.441	$0	$1.862.413	$155.201
Bombilla Sodio 150 W	Un.	3,5	$ 93.321					7	7	$653.246	$26.130	$2.177	$0	$9.833	$819
Bombilla Sodio 400 W	Un.	3,5	$ 116.714					2	2	$233.428	$9.337	$778	$0	$3.514	$293
Bombilla Metal Halide 250 W	Un.	3,5	$ 107.608					1	1	$107.608	$4.304	$359	$0	$1.620	$135
Bombilla Metal Halide 400 W	Un.	3,5	$ 117.486					10	10	$1.174.862	$46.994	$3.916	$0	$17.684	$1.474
Bombilla Mercurio 125 W	Un.	3,5	$ 120.639					1	1	$120.639	$4.826	$402	$0	$1.816	$151
Brazos	**Un.**					**0**	**259**	**1.607**	**1.866**	**$371.475.816**	**$14.859.033**	**$1.238.253**	**$51.560.684**	**$8.347.028**	**$695.586**
Brazo Galvanizado 1 1/2" X 1,5 MTS	Un.	30	$ 199.076				259	1607	1.866	$371.475.816	$14.859.033	$1.238.253	$51.560.684	$8.347.028	$695.586
Postes	**Un.**					**0**	**198**	**295**	**493**	**$745.477.605**	**$29.819.104**	**$2.484.925**	**$371.521.346**	**$50.249.478**	**$4.187.457**
Poste concreto 5 mts	Un.	30	$1.316.602					23	23	$30.281.846	$1.211.274	$100.939	$0	$155.160	$12.930
Poste concreto 8 mts	Un.	30	$1.564.034					18	18	$28.152.612	$1.126.104	$93.842	$0	$144.250	$12.021
POSTE 9 M CONCRETO NUEVO	Un.	30	$1.756.987				166		166	$291.659.842	$11.666.394	$972.199	$291.659.842	$37.943.732	$3.161.978
POSTE 12 M CONCRETO NUEVO	Un.	30	$2.495.672				32		32	$79.861.504	$3.194.460	$266.205	$79.861.504	$10.389.649	$865.804
Tubo metalico 8m x 6"	Un.	30	$1.781.008					58	58	$103.298.464	$4.131.939	$344.328	$0	$529.286	$44.107
Tubo metalico 5m x 5"	Un.	30	$1.473.288					6	6	$8.839.728	$353.589	$29.466	$0	$45.293	$3.774
Tubo metalico 3m x 3"	Un.	30	$1.002.288					146	146	$146.334.048	$5.853.362	$487.780	$0	$749.794	$62.483
Poste metálico 8 mts	Un.	30	$2.935.115					7	7	$20.545.805	$821.832	$68.486	$0	$105.274	$8.773
Poste madera 8 mts	Un.	30	$986.588					37	37	$36.503.756	$1.460.150	$121.679	$0	$187.040	$15.587
Transformadores	**Un.**					**0**	**0**	**1**	**1**	**$18.330.927**	**$733.237**	**$61.103**	**$0**	**$101.187**	**$8.432**
Transformador Monofasico 15kVA	Un.	20	$18.330.927,01					1	1	$18.330.927	$733.237	$61.103	$0	$101.187	$8.432
CAJAS DE PASO	**Un.**					**0**	**0**	**165**	**165**	**$45.569.486**	**$1.822.779**	**$151.898**	**$0**	**$233.491**	**$19.458**
Cajas de Paso 40x40 AP	Un.	30	$276.178,70					165	165	$45.569.486	$1.822.779	$151.898	$0	$233.491	$19.458
Redes aéreas y subterráneas	**Un.**					**0**	**6.530**	**11.940,00**	**18.470,00**	**$796.509.400**	**$31.860.376**	**$2.655.031**	**$366.969.084**	**$49.942.052**	**$4.161.838**
Cable de Aluminio Aislado # 6 aereo, 2 conductores	ml	30	$51.091					630	630	$32.187.577	$1.287.503	$107.292	$0	$164.924	$13.744
Cable de Aluminio Aislado # 10 aereo, 2 conductores	ml	30	$46.381					165	165	$7.652.930	$306.117	$25.510	$0	$39.212	$3.268
Cable AL Triplex 2x4+4 AWG AAC NUEVO	ml	30	$56.197				6.530		6.530	$366.969.084	$14.678.763	$1.223.230	$366.969.084	$47.741.151	$3.978.429
Cable de Cobre Aislado # 8 subterráneo, 2 conductores	ml	30	$39.386					3798	3.798	$149.588.281	$5.983.531	$498.628	$0	$766.468	$63.872
Cable de Cobre Aislado # 10 subterráneo, 2 conductores	ml	30	$35.759					2781	2.781	$99.446.799	$3.977.872	$331.489	$0	$509.551	$42.463
Cable de Cobre Aislado # 12 aerero, 2 conductores	ml	30	$30.807					4566	4.566	$140.664.729	$5.626.589	$468.882	$0	$720.745	$60.062
								Total Costo(Pesos JUNIO 2025)		**$4.793.774.276**	**$299.366.535**	**$24.947.211**	**$1.948.968.785**	**$298.019.260**	**$24.834.938**

LIQUIDACION CREG 101013 DE 2022
ALUMBRADO PÚBLICO MUNICIPIO DE SONSON ANTIOQUIA

ALUMBRADO PUBLICO	**LIQUIDACION CREG 101013 INVENTARIO ACTUAL**	r=	12,09%	**MES DE LIQUIDACION**	**JUNIO 2025**
		VCEEIn=	0	**INDICE ACTUALIZACION PRECIO**	1,00
		ID encendidas=	1	VALOR A PAGAR AOM	30.360.727
		ID apagadas	1	FAOML	8,0%
		costos ambientales	5,00%	COSTOS AMBIENTALES ANUALES	**18.216.436**
MUNICIPIO SONSON		FAOMn	4,00%	COSTOS AMBIENTALES MENSUALES	**1.518.036**
		IPPo JuNIO 2025	1,00	VALOR A PAGAR INV	**52.985.630**
		IPP(m-1) JUNIO 2025	1	**VALOR TOTAL A PAGAR**	**84.864.394**

UNIDADES CONSTRUCTIVAS			**CANTIDADES UCAPS**								**CAOM**		**CINV**		
Descripción	**Unidad**	**Vida Util Años**	**V/Unit.**	**k .= Factor Ajuste Eficacia**	**V/ Unt *k**	**Modernización**	**Expansión**	**Cantidades Mpio Y Otros**	**Total Cantidades UCAPs**	**Valor UCAPs**	**CAOM Anual**	**CAOM Mensual**	**Valor Total UCAPs**	**CINV Anual**	**CINV Mensual**
Luminarias led Nuevas	**Un.**					**1.466**	**0**	**0**	**1.466**	**$3.248.744.857**	**$259.899.589**	**$21.658.299**	**$3.898.493.828**	**$594.797.427**	**$49.566.452**
Luminaria LED de 35W NUEVA	Un.	15	$ 1.918.075	1,2	$2.301.690	1.064			1.064	$2.040.832.098	$163.266.568	$13.605.547	$2.448.998.518	$373.646.357	$31.137.196
Luminaria LED ORNAMENTAL de 35W NUEVA	Un.	15	$ 3.223.337	1,2	$3.868.005	235			235	$757.484.235	$60.598.739	$5.049.895	$908.981.082	$138.684.228	$11.557.019
Luminaria LED de 60W NUEVA	Un.	15	$ 2.437.106	1,2	$2.924.528				0	$0	$0	$0	$0	$0	$0
Luminaria LED de 80W NUEVA	Un.	15	$ 2.697.177	1,2	$3.236.612	167			167	$450.428.524	$36.034.282	$3.002.857	$540.514.229	$82.466.841	$6.872.237
Luminaria LED de 120W NUEVA	Un.	15	$ 3.089.452	1,2	$3.707.343				0	$0	$0	$0	$0	$0	$0
PROYECTOR LED 400W NUEVO	Un.	15	$ 4.003.004	1,2	$4.803.605				0	$0	$0	$0	$0	$0	$0
Luminarias Existentes	**Un.**					**0**	**0**	**0**	**0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**
Luminaria de Sodio 70 W Existente	Un.	15	$ 654.921	1	$654.921				0	$0	$0	$0	$0	$0	$0
Luminaria Ornamental de Sodio 70 W Existente	Un.	15	$ 860.255	1	$860.255				0	$0	$0	$0	$0	$0	$0
Proyector de Sodio 150 W Existente	Un.	15	$ 901.171	1	$901.171				0	$0	$0	$0	$0	$0	$0
Proyector de Sodio 400 W Existente	Un.	15	$ 1.028.895	1	$1.028.895				0	$0	$0	$0	$0	$0	$0
Proyector Metal Halide 400 W Existente	Un.	15	$ 1.045.223	1	$1.045.223				0	$0	$0	$0	$0	$0	$0
Proyector Metal Halide 250 W Existente	Un.	15	$ 923.862	1	$923.862				0	$0	$0	$0	$0	$0	$0
Luminaria Mercurio 125 W Existente	Un.	15	$ 550.830	1	$550.830				0	$0	$0	$0	$0	$0	$0
Luminarias led existentes	**Un.**					**0**	**0**	**445**	**445**	**$709.717.425**	**$56.777.394**	**$4.731.449**	**$0**	**$4.292.902**	**$357.742**
Luminaria LED de 40 W Existente	Un.	15	$ 1.519.363	1	$1.519.363			214	214	$325.143.637	$26.011.491	$2.167.624	$0	$1.966.712	$163.893
Luminaria LED de 50 W Existente	Un.	15	$ 1.701.012	1	$1.701.012			102	102	$173.503.203	$13.880.256	$1.156.688	$0	$1.049.477	$87.456
Luminaria LED de 60 W Existente	Un.	15	$ 1.756.119	1	$1.756.119			15	15	$26.341.782	$2.107.343	$175.612	$0	$159.335	$13.278
Luminaria LED de 90 W Existente	Un.	15	$ 1.820.175	1	$1.820.175			6	6	$10.921.049	$873.684	$72.807	$0	$66.059	$5.505
Luminaria LED de 100 W Existente	Un.	15	$ 1.946.089	1	$1.946.089			54	54	$105.088.795	$8.407.104	$700.592	$0	$635.656	$52.971
Luminaria LED de 180 W Existente	Un.	15	$ 2.134.175	1	$2.134.175			5	5	$10.670.874	$853.670	$71.139	$0	$64.545	$5.379
Proyector LED de 100 W Existente	Un.	15	$ 1.594.095	1	$1.594.095			7	7	$11.158.664	$892.693	$74.391	$0	$67.496	$5.625
Proyector LED de 50 W Existente	Un.	15	$ 1.109.593	1	$1.109.593			31	31	$34.397.376	$2.751.790	$229.316	$0	$208.061	$17.338
Proyector LED de 30 W Existente	Un.	15	$ 826.993	1	$826.993			6	6	$4.961.957	$396.957	$33.080	$0	$30.014	$2.501
Luminaria Ornamental LED de 100 W Existente	Un.	15	$ 1.506.018	1	$1.506.018			5	5	$7.530.089	$602.407	$50.201	$0	$45.548	$3.796
Bombillos	**Un.**					**0**	**0**	**0**	**0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**
Bombilla Sodio 70 W	Un.	3,5	$ 85.628						0	$0	$0	$0	$0	$0	$0
Bombilla Sodio 150 W	Un.	3,5	$ 93.321						0	$0	$0	$0	$0	$0	$0
Bombilla Sodio 400 W	Un.	3,5	$ 116.714						0	$0	$0	$0	$0	$0	$0
Bombilla Metal Halide 250 W	Un.	3,5	$ 107.608						0	$0	$0	$0	$0	$0	$0
Bombilla Metal Halide 400 W	Un.	3,5	$ 117.486						0	$0	$0	$0	$0	$0	$0
Bombilla Mercurio 125 W	Un.	3,5	$ 120.639						0	$0	$0	$0	$0	$0	$0
Brazos	**Un.**					**1.231**	**0**	**396**	**1.627**	**$323.896.652**	**$12.955.866**	**$1.079.656**	**$245.062.556**	**$32.285.553**	**$2.690.463**
Brazo Galvanizado 1 1/2" X 1,5 MTS	Un.	30	$ 199.076			1.231		396	1.627	$323.896.652	$12.955.866	$1.079.656	$245.062.556	$32.285.553	$2.690.463
Postes	**Un.**					**0**	**0**	**295**	**295**	**$373.956.259**	**$14.958.250**	**$1.246.521**	**$0**	**$1.916.096**	**$159.675**
Poste concreto 5 mts	Un.	30	$1.316.602					23	23	$30.281.846	$1.211.274	$100.939	$0	$155.160	$12.930
Poste concreto 8 mts	Un.	30	$1.564.034					18	18	$28.152.612	$1.126.104	$93.842	$0	$144.250	$12.021
POSTE 9 M CONCRETO NUEVO	Un.	30	$1.756.987						0	$0	$0	$0	$0	$0	$0
POSTE 12 M CONCRETO NUEVO	Un.	30	$2.495.672						0	$0	$0	$0	$0	$0	$0
Tubo metalico 8m x 6"	Un.	30	$1.781.008					58	58	$103.298.464	$4.131.939	$344.328	$0	$529.286	$44.107
Tubo metalico 5m x 5"	Un.	30	$1.473.288					6	6	$8.839.728	$353.589	$29.466	$0	$45.293	$3.774
Tubo metalico 3m x 3"	Un.	30	$1.002.288					146	146	$146.334.048	$5.853.362	$487.780	$0	$749.794	$62.483
Poste metálico 8 mts	Un.	30	$2.935.115					7	7	$20.545.805	$821.832	$68.486	$0	$105.274	$8.773
Poste madera 8 mts	Un.	30	$986.588					37	37	$36.503.756	$1.460.150	$121.679	$0	$187.040	$15.587
Transformadores	**Un.**					**0**	**0**	**1**	**1**	**$18.330.927**	**$733.237**	**$61.103**	**$0**	**$101.187**	**$8.432**
Transformador Monofasico 15kVA	Un.	20	$18.330.927,01					1	1	$18.330.927	$733.237	$61.103	$0	$101.187	$8.432
CAJAS DE PASO	**Un.**					**0**	**0**	**165**	**165**	**$45.569.486**	**$1.822.779**	**$151.898**	**$0**	**$233.491**	**$19.458**
Cajas de Paso 40x40 AP	Un.	30	$276.178,70					165	165	$45.569.486	$1.822.779	$151.898	$0	$233.491	$19.458
Redes aéreas y subterráneas	**Un.**					**0**	**0**	**11.940,00**	**11.940,00**	**$429.540.316**	**$17.181.613**	**$1.431.801**	**$0**	**$2.200.901**	**$183.408**
Cable de Aluminio Aislado # 6 aereo, 2 conductores	ml	30	$51.091					630	630	$32.187.577	$1.287.503	$107.292	$0	$164.924	$13.744
Cable de Aluminio Aislado # 10 aereo, 2 conductores	ml	30	$46.381					165	165	$7.652.930	$306.117	$25.510	$0	$39.212	$3.268
Cable AL Triplex 2x4+4 AWG AAC NUEVO	ml	30	$56.197						0	$0	$0	$0	$0	$0	$0
Cable de Cobre Aislado # 8 subterráneo, 2 conductores	ml	30	$39.386					3798	3.798	$149.588.281	$5.983.531	$498.628	$0	$766.468	$63.872
Cable de Cobre Aislado # 10 subterráneo, 2 conductores	ml	30	$35.759					2781	2.781	$99.446.799	$3.977.872	$331.489	$0	$509.551	$42.463
Cable de Cobre Aislado # 12 aerero, 2 conductores	ml	30	$30.807					4566	4.566	$140.664.729	$5.626.589	$468.882	$0	$720.745	$60.062
									Total Costo(Pesos JUNIO 2025)	**$5.149.755.921**	**$364.328.728**	**$30.360.727**	**$4.143.556.384**	**$635.827.558**	**$52.985.630**