

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P522305

Luminaire Tested: **SQW-F-025U-075D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522305
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-52,
Test Lab: INNOVATION CENTER
Issue Date: 5/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-025U-075D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

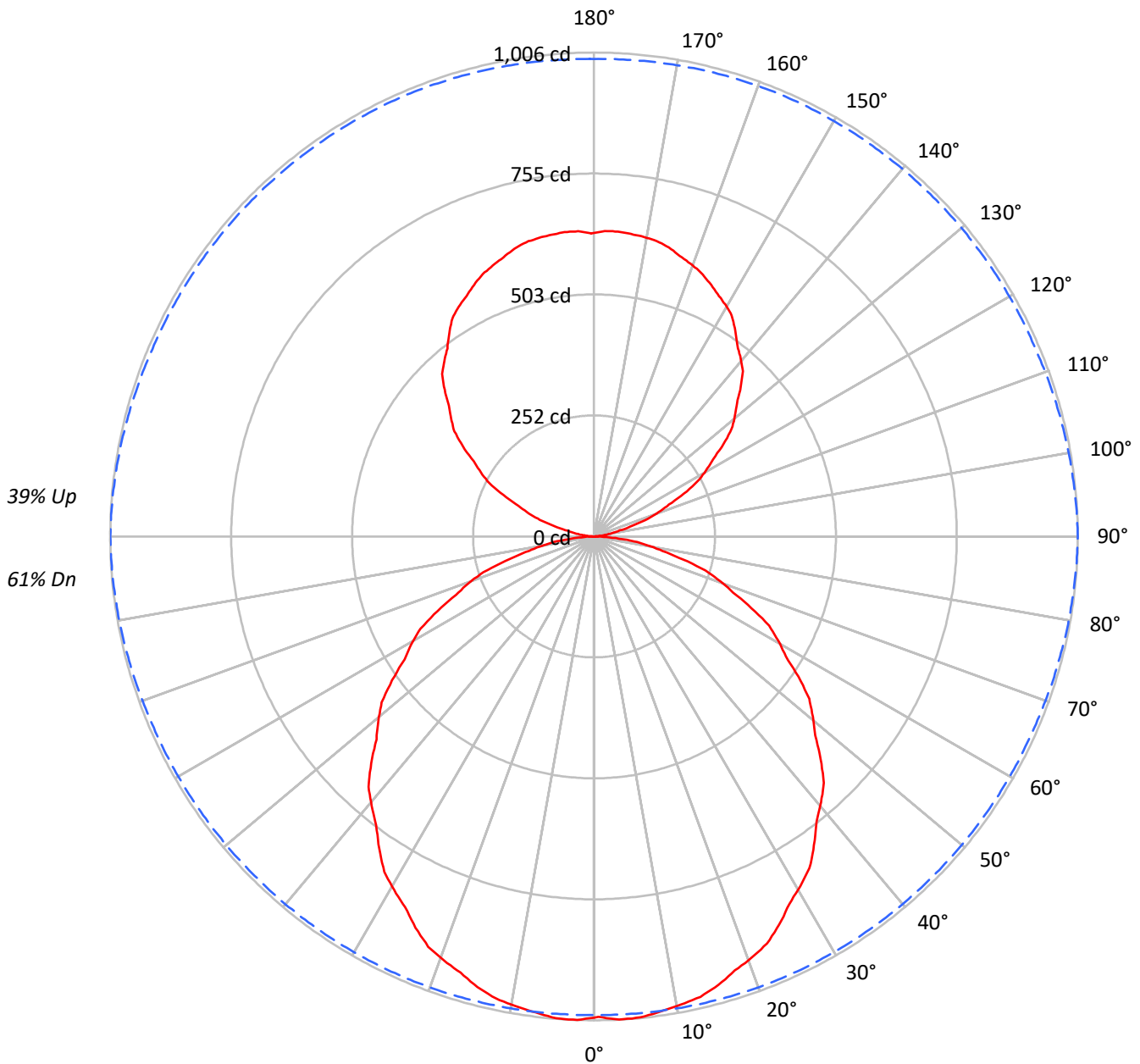
Lumens per Lamp: N/A
Luminaire Lumens: 4548.0 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 46
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



39% Up

61% Dn

— Vertical Plane Through 90° Lateral - - - Horizontal Cone Through 2.5° Vertical



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	61
1	100	96	92	88	94	90	86	83	78	76	73	68	66	64	59	57	56	51
2	91	83	77	72	85	78	73	68	69	64	61	60	56	54	51	49	47	43
3	83	73	66	60	77	69	62	57	60	55	51	53	49	45	45	42	40	36
4	76	65	57	50	71	61	54	48	54	48	43	47	42	39	40	37	34	31
5	70	58	49	43	65	54	47	41	48	42	37	42	37	33	36	33	30	27
6	64	52	43	37	60	49	41	36	43	37	32	38	33	29	33	29	26	23
7	59	47	38	33	55	44	37	31	39	33	28	34	29	26	30	26	23	21
8	55	42	34	29	51	40	33	28	36	30	25	31	27	23	28	24	21	18
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	25	21	19	16
10	48	36	28	23	45	34	27	22	30	24	20	27	22	19	24	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	16130	16130	16130
5°	16144	16287	16065
10°	16123	16234	15962
15°	16062	16177	15818
20°	15957	16074	15622
25°	15763	15935	15380
30°	15567	15748	15129
35°	15341	15534	14879
40°	15087	15314	14533
45°	14805	15095	14248
50°	14473	14815	13908
55°	14103	14514	13498
60°	13656	14221	12991
65°	13058	13769	12348
70°	12354	13138	11434
75°	11273	11940	10293
80°	9809	10628	8805
85°	7410	8318	6150



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.5	2.1
10°-20°	270.0	5.9
20°-30°	406.2	8.9
30°-40°	485.2	10.7
40°-50°	498.8	11.0
50°-60°	448.9	9.9
60°-70°	341.6	7.5
70°-80°	193.6	4.3
80°-90°	50.9	1.1
90°-100°	16.6	0.4
100°-110°	71.7	1.6
110°-120°	204.5	4.5
120°-130°	311.0	6.8
130°-140°	336.4	7.4
140°-150°	321.4	7.1
150°-160°	264.4	5.8
160°-170°	172.7	3.8
170°-180°	59.7	1.3
0°-30°	770.7	16.9
0°-40°	1255.8	27.6
0°-60°	2203.5	48.4
0°-90°	2789.5	61.3
90°-120°	292.8	6.4
90°-150°	1261.7	27.7
90°-180°	1758.0	38.7
0°-180°	4548.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	999	999	999	999	999	
5°	996	996	1005	993	991	95
15°	961	963	968	955	946	271
25°	885	894	894	879	863	408
35°	778	789	788	772	755	487
45°	648	657	661	642	624	500
55°	501	511	516	496	480	448
65°	342	352	360	339	323	339
75°	181	186	191	176	165	192
85°	40	45	45	40	33	48
90°	0	0	0	0	0	1
95°	3	4	11	27	25	3
105°	17	42	83	57	61	19
115°	151	401	207	98	111	208
125°	601	529	331	163	140	528
135°	666	602	436	270	214	513
145°	693	649	519	384	327	434
155°	701	670	579	481	436	324
165°	685	670	621	556	531	195
175°	645	647	636	612	596	63
180°	630	630	630	630	630	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	999.0	999.0	999.0	999.0	999.0	999.0	999.0	999.0	999.0
2.5°	995.1	998.2	998.2	998.4	1006.1	997.7	997.5	997.4	992.8
5°	996.1	996.1	996.1	994.4	1004.9	993.4	993.2	991.2	991.2
7.5°	990.4	988.7	989.8	987.7	997.3	984.9	985.5	983.4	983.0
10°	983.4	982.4	984.4	980.7	990.2	977.8	978.5	975.5	973.6
12.5°	975.6	974.6	977.3	972.1	982.4	970.0	969.9	966.2	965.8
15°	960.9	960.9	962.9	959.2	967.8	955.4	955.1	951.1	946.3
17.5°	943.6	941.5	946.1	940.0	948.8	934.9	935.9	930.2	924.8
20°	928.7	925.8	933.6	926.0	935.5	919.3	921.9	913.0	909.2
22.5°	911.5	909.4	918.0	911.1	919.9	904.5	905.5	894.3	891.2
25°	884.8	883.8	893.6	885.9	894.5	878.3	878.9	867.1	863.3
27.5°	855.3	854.5	865.2	857.6	865.0	850.0	850.4	837.4	832.6
30°	835.0	835.0	845.7	838.0	844.7	830.4	830.1	816.3	811.5
32.5°	813.1	812.3	823.0	816.9	822.9	807.8	806.6	793.6	788.9
35°	778.3	778.3	789.1	782.4	788.1	774.7	771.5	758.7	754.9
37.5°	741.6	740.6	751.4	747.2	752.3	738.2	733.8	720.1	719.1
40°	715.8	714.9	725.6	723.7	726.6	713.2	708.0	694.2	689.5
42.5°	689.3	689.8	699.0	697.2	700.8	687.4	682.2	667.7	665.2
45°	648.4	647.5	657.2	656.4	661.1	647.8	641.6	625.9	624.0
47.5°	605.9	606.2	614.8	615.9	618.8	606.5	599.2	583.7	581.8
50°	576.2	578.1	585.9	587.0	589.8	578.4	570.3	555.6	553.7
52.5°	547.3	548.4	556.3	559.6	560.2	550.2	540.6	526.7	524.8
55°	501.0	503.8	510.7	514.7	515.6	507.0	496.1	482.4	479.5
57.5°	454.1	456.0	465.4	469.9	470.1	461.1	450.2	437.4	432.8
60°	422.9	424.8	432.6	439.5	440.4	429.9	418.9	406.2	402.3
62.5°	390.8	392.7	400.6	407.4	408.4	398.7	386.9	374.2	371.1
65°	341.8	343.7	351.6	359.4	360.4	350.8	338.9	326.1	323.2
67.5°	293.8	295.7	303.3	309.8	311.9	301.6	290.6	278.8	275.0
70°	261.7	263.6	270.5	275.5	278.3	268.8	257.8	246.0	242.2
72.5°	228.1	229.3	236.1	241.8	242.4	234.4	224.2	214.8	211.7
75°	180.7	182.6	186.5	192.4	191.4	183.8	175.8	168.9	165.0
77.5°	135.2	137.3	141.0	144.9	145.5	138.4	131.6	124.7	122.1
80°	105.5	108.3	111.3	115.2	114.3	109.5	103.5	96.6	94.7
82.5°	78.1	80.2	84.0	87.1	84.6	81.3	77.0	70.1	68.2
85°	40.0	41.0	44.9	47.8	44.9	44.0	40.0	35.1	33.2
87.5°	8.6	10.1	13.3	17.1	14.1	14.8	11.7	7.8	7.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.9	0.9	0.9	1.7	2.6	9.3	10.3	9.0	9.0
95°	2.7	2.7	3.7	11.8	11.2	19.1	26.7	25.1	25.1
97.5°	5.5	6.0	8.6	34.8	26.2	25.5	36.2	40.2	41.0
100°	8.0	8.5	12.8	56.8	39.1	33.3	39.6	47.1	48.7
102.5°	11.0	12.0	20.5	89.4	54.9	39.1	45.2	51.8	53.8
105°	16.6	18.2	42.3	149.9	82.9	51.0	56.7	59.4	61.0
107.5°	24.6	31.0	113.8	210.6	117.7	67.4	73.4	73.0	74.4
110°	33.2	46.2	196.9	243.8	143.4	80.1	80.2	84.5	82.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	55.0	91.9	293.6	275.8	169.1	95.3	86.7	96.1	96.6
115°	150.9	259.1	401.2	320.5	207.0	122.3	98.4	107.6	111.3
117.5°	374.1	450.8	456.3	360.3	244.9	152.4	111.9	116.0	120.8
120°	507.2	522.8	482.0	384.7	270.2	173.9	123.0	121.6	126.8
122.5°	559.4	553.7	503.0	407.4	295.0	196.6	136.7	128.4	131.9
125°	601.3	586.7	529.1	438.9	331.1	230.7	162.6	139.6	139.6
127.5°	626.3	609.3	553.1	466.8	363.8	265.1	193.8	157.9	153.0
130°	640.9	622.6	567.6	486.1	385.2	287.4	215.6	173.7	165.8
132.5°	652.0	635.4	581.3	501.3	406.2	309.2	237.4	193.3	180.4
135°	665.5	651.4	602.4	524.4	435.5	341.8	270.2	227.1	214.0
137.5°	674.2	663.2	621.3	543.4	462.6	374.2	303.2	259.9	248.1
140°	678.9	670.0	630.7	554.7	479.3	395.1	326.3	282.2	271.2
142.5°	683.6	676.4	637.6	567.2	495.6	416.0	349.0	304.9	293.1
145°	693.3	685.0	648.9	582.2	518.9	445.2	384.1	337.9	327.4
147.5°	700.2	690.1	658.2	598.4	541.0	471.6	416.3	371.7	361.3
150°	701.9	691.4	663.4	607.1	554.2	487.8	436.0	393.5	383.6
152.5°	700.6	692.7	667.2	614.4	565.4	503.5	454.0	414.5	405.4
155°	701.4	694.0	670.3	624.4	579.4	525.5	480.9	446.0	436.5
157.5°	698.1	693.3	672.5	632.0	592.3	545.1	505.7	476.2	466.7
160°	698.1	690.8	672.5	636.4	601.3	557.9	521.1	494.7	486.8
162.5°	693.4	686.9	672.0	639.5	609.9	569.8	535.6	511.0	505.2
165°	684.8	679.5	669.8	643.6	620.6	586.0	556.4	534.4	530.7
167.5°	678.0	670.8	665.5	643.4	627.8	597.7	573.9	555.7	553.6
170°	670.3	665.6	661.2	642.3	631.3	606.2	586.3	568.1	566.0
172.5°	660.5	657.9	655.7	641.5	633.4	613.3	597.0	580.5	576.7
175°	645.2	647.3	646.8	639.7	635.6	622.5	612.5	600.7	596.0
177.5°	635.8	634.9	637.0	635.8	635.3	627.4	624.6	616.6	619.1
180°	630.2	630.2	630.2	630.2	630.2	630.2	630.2	630.2	630.2

(END OF REPORT)