

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: P522311

Luminaire Tested: **SQW-F-025U-075D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522311
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 (6500K)
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 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

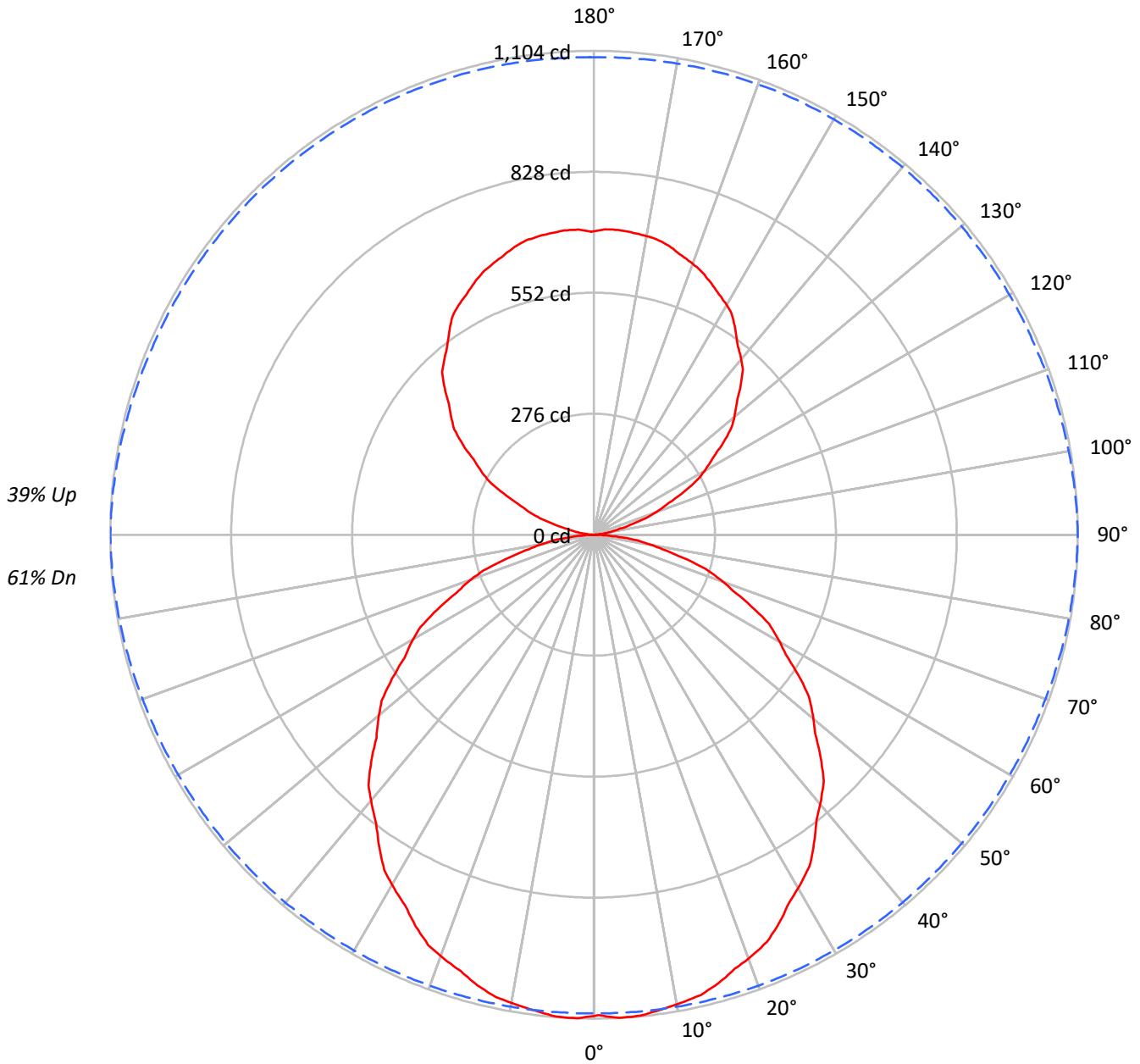
Lumens per Lamp: N/A
Luminaire Lumens: 4988.5 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 45.7
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



— 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°	17693	17693	17693
5°	17708	17864	17621
10°	17684	17807	17508
15°	17618	17743	17349
20°	17502	17630	17134
25°	17288	17480	16869
30°	17074	17273	16595
35°	16827	17038	16320
40°	16547	16796	15938
45°	16239	16559	15630
50°	15875	16252	15254
55°	15468	15921	14804
60°	14977	15600	14250
65°	14323	15098	13543
70°	13553	14412	12538
75°	12364	13094	11291
80°	10758	11650	9661
85°	8133	9133	6743



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.6	2.1
10°-20°	296.2	5.9
20°-30°	445.5	8.9
30°-40°	532.1	10.7
40°-50°	547.1	11.0
50°-60°	492.3	9.9
60°-70°	374.7	7.5
70°-80°	212.3	4.3
80°-90°	55.9	1.1
90°-100°	18.2	0.4
100°-110°	78.7	1.6
110°-120°	224.4	4.5
120°-130°	341.1	6.8
130°-140°	369.0	7.4
140°-150°	352.5	7.1
150°-160°	289.9	5.8
160°-170°	189.5	3.8
170°-180°	65.5	1.3
0°-30°	845.3	16.9
0°-40°	1377.5	27.6
0°-60°	2416.8	48.4
0°-90°	3059.7	61.3
90°-120°	321.2	6.4
90°-150°	1383.8	27.7
90°-180°	1929.0	38.7
0°-180°	4988.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1096	1096	1096	1096	1096	
5°	1093	1093	1102	1089	1087	104
15°	1054	1056	1062	1048	1038	297
25°	970	980	981	964	947	447
35°	854	866	864	846	828	534
45°	711	721	725	704	684	548
55°	550	560	566	544	526	491
65°	375	386	395	372	354	371
75°	198	205	210	193	181	210
85°	44	49	49	44	36	52
90°	0	0	0	0	0	1
95°	3	4	12	29	28	4
105°	18	46	91	62	67	21
115°	166	440	227	108	122	228
125°	660	580	363	178	153	580
135°	730	661	478	296	235	563
145°	760	712	569	421	359	476
155°	769	735	636	528	479	355
165°	751	735	681	610	582	213
175°	708	709	697	672	654	69
180°	691	691	691	691	691	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1095.8	1095.8	1095.8	1095.8	1095.8	1095.8	1095.8	1095.8	1095.8
2.5°	1091.5	1094.8	1094.9	1095.1	1103.5	1094.3	1094.1	1093.9	1088.9
5°	1092.6	1092.6	1092.6	1090.7	1102.2	1089.6	1089.3	1087.2	1087.2
7.5°	1086.3	1084.5	1085.7	1083.4	1093.8	1080.2	1081.0	1078.6	1078.2
10°	1078.6	1077.6	1079.7	1075.7	1086.1	1072.5	1073.3	1070.0	1067.9
12.5°	1070.1	1069.0	1072.0	1066.2	1077.6	1063.9	1063.8	1059.8	1059.3
15°	1054.0	1054.0	1056.1	1052.1	1061.5	1047.9	1047.6	1043.2	1037.9
17.5°	1034.9	1032.6	1037.7	1031.1	1040.7	1025.4	1026.6	1020.2	1014.4
20°	1018.6	1015.5	1024.0	1015.7	1026.1	1008.3	1011.1	1001.4	997.2
22.5°	999.8	997.5	1006.9	999.4	1009.0	992.0	993.2	980.9	977.5
25°	970.4	969.4	980.1	971.7	981.2	963.4	964.0	951.1	946.9
27.5°	938.1	937.3	949.0	940.6	948.8	932.3	932.7	918.5	913.2
30°	915.8	915.8	927.6	919.2	926.5	910.8	910.5	895.3	890.1
32.5°	891.8	891.0	902.7	896.0	902.5	886.0	884.8	870.5	865.3
35°	853.7	853.7	865.5	858.1	864.4	849.7	846.2	832.2	828.0
37.5°	813.4	812.4	824.1	819.5	825.2	809.7	804.8	789.8	788.8
40°	785.1	784.1	795.9	793.8	796.9	782.3	776.6	761.5	756.2
42.5°	756.0	756.6	766.7	764.7	768.6	754.0	748.3	732.4	729.7
45°	711.2	710.2	720.9	719.9	725.2	710.5	703.7	686.5	684.5
47.5°	664.5	664.9	674.4	675.5	678.7	665.3	657.2	640.3	638.2
50°	632.0	634.1	642.7	643.8	647.0	634.4	625.5	609.4	607.3
52.5°	600.3	601.5	610.1	613.8	614.4	603.5	593.0	577.7	575.6
55°	549.5	552.6	560.2	564.5	565.6	556.1	544.1	529.1	525.9
57.5°	498.1	500.2	510.5	515.4	515.6	505.8	493.8	479.8	474.7
60°	463.8	465.9	474.5	482.0	483.1	471.6	459.5	445.5	441.3
62.5°	428.7	430.8	439.4	446.9	447.9	437.3	424.4	410.4	407.0
65°	374.9	377.0	385.6	394.2	395.2	384.8	371.7	357.7	354.5
67.5°	322.2	324.3	332.7	339.8	342.1	330.8	318.8	305.8	301.6
70°	287.1	289.2	296.7	302.1	305.3	294.8	282.8	269.8	265.6
72.5°	250.2	251.5	259.0	265.2	265.9	257.1	245.9	235.6	232.2
75°	198.2	200.3	204.6	211.0	209.9	201.6	192.8	185.2	181.0
77.5°	148.2	150.5	154.7	159.0	159.6	151.8	144.4	136.8	133.9
80°	115.7	118.8	122.1	126.4	125.3	120.1	113.5	106.0	103.9
82.5°	85.7	88.0	92.1	95.5	92.8	89.2	84.4	76.9	74.8
85°	43.9	45.0	49.3	52.4	49.3	48.2	43.9	38.5	36.4
87.5°	9.4	11.1	14.6	18.8	15.4	16.3	12.9	8.6	7.7
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	1.9	2.8	10.2	11.3	9.9	9.9
95°	2.9	2.9	4.1	12.9	12.3	20.9	29.3	27.6	27.6
97.5°	6.0	6.6	9.4	38.2	28.8	27.9	39.7	44.1	44.9
100°	8.8	9.4	14.1	62.3	42.8	36.5	43.4	51.7	53.4
102.5°	12.1	13.1	22.5	98.1	60.2	42.9	49.5	56.8	59.0
105°	18.2	19.9	46.4	164.4	91.0	56.0	62.2	65.2	66.9
107.5°	27.0	34.0	124.9	231.0	129.1	73.9	80.5	80.1	81.6
110°	36.4	50.7	215.9	267.4	157.3	87.8	88.0	92.7	91.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	60.3	100.8	322.0	302.5	185.4	104.5	95.1	105.4	106.0
115°	165.5	284.2	440.1	351.6	227.1	134.1	108.0	118.0	122.1
117.5°	410.3	494.5	500.5	395.2	268.6	167.2	122.8	127.2	132.5
120°	556.3	573.5	528.7	422.0	296.3	190.8	135.0	133.3	139.1
122.5°	613.5	607.3	551.7	446.9	323.6	215.7	150.0	140.8	144.7
125°	659.5	643.5	580.3	481.4	363.2	253.1	178.4	153.1	153.1
127.5°	687.0	668.3	606.6	512.0	399.0	290.8	212.5	173.2	167.8
130°	703.0	682.9	622.6	533.2	422.5	315.2	236.5	190.5	181.9
132.5°	715.2	696.9	637.6	549.8	445.5	339.1	260.4	212.0	197.9
135°	730.0	714.5	660.7	575.2	477.6	374.9	296.3	249.1	234.7
137.5°	739.5	727.4	681.5	596.0	507.4	410.5	332.6	285.1	272.1
140°	744.6	734.9	691.8	608.4	525.8	433.4	357.9	309.5	297.5
142.5°	749.8	741.9	699.3	622.1	543.6	456.3	382.8	334.4	321.4
145°	760.5	751.3	711.8	638.6	569.2	488.3	421.3	370.6	359.1
147.5°	768.0	757.0	722.0	656.3	593.4	517.3	456.6	407.7	396.3
150°	769.9	758.4	727.6	665.9	607.9	535.0	478.2	431.6	420.7
152.5°	768.4	759.7	731.8	673.9	620.1	552.3	497.9	454.6	444.7
155°	769.3	761.2	735.2	684.8	635.5	576.4	527.5	489.1	478.8
157.5°	765.7	760.5	737.6	693.2	649.7	597.9	554.6	522.3	511.9
160°	765.7	757.7	737.6	698.0	659.5	611.9	571.5	542.6	534.0
162.5°	760.6	753.5	737.1	701.4	668.9	625.0	587.5	560.5	554.2
165°	751.1	745.3	734.6	705.9	680.7	642.8	610.3	586.1	582.1
167.5°	743.7	735.8	730.0	705.7	688.6	655.6	629.5	609.5	607.2
170°	735.2	730.1	725.3	704.4	692.4	664.9	643.1	623.1	620.8
172.5°	724.4	721.6	719.2	703.6	694.7	672.7	654.8	636.7	632.5
175°	707.7	710.0	709.4	701.7	697.1	682.8	671.9	658.8	653.7
177.5°	697.3	696.4	698.7	697.3	696.9	688.1	685.1	676.3	679.0
180°	691.2	691.2	691.2	691.2	691.2	691.2	691.2	691.2	691.2

(END OF REPORT)