

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: P522424

Luminaire Tested: **SQW-F-0U-075D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522424  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/11/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQW-F-0U-075D-92765-1D-UNV-STD-W-4 (2700K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

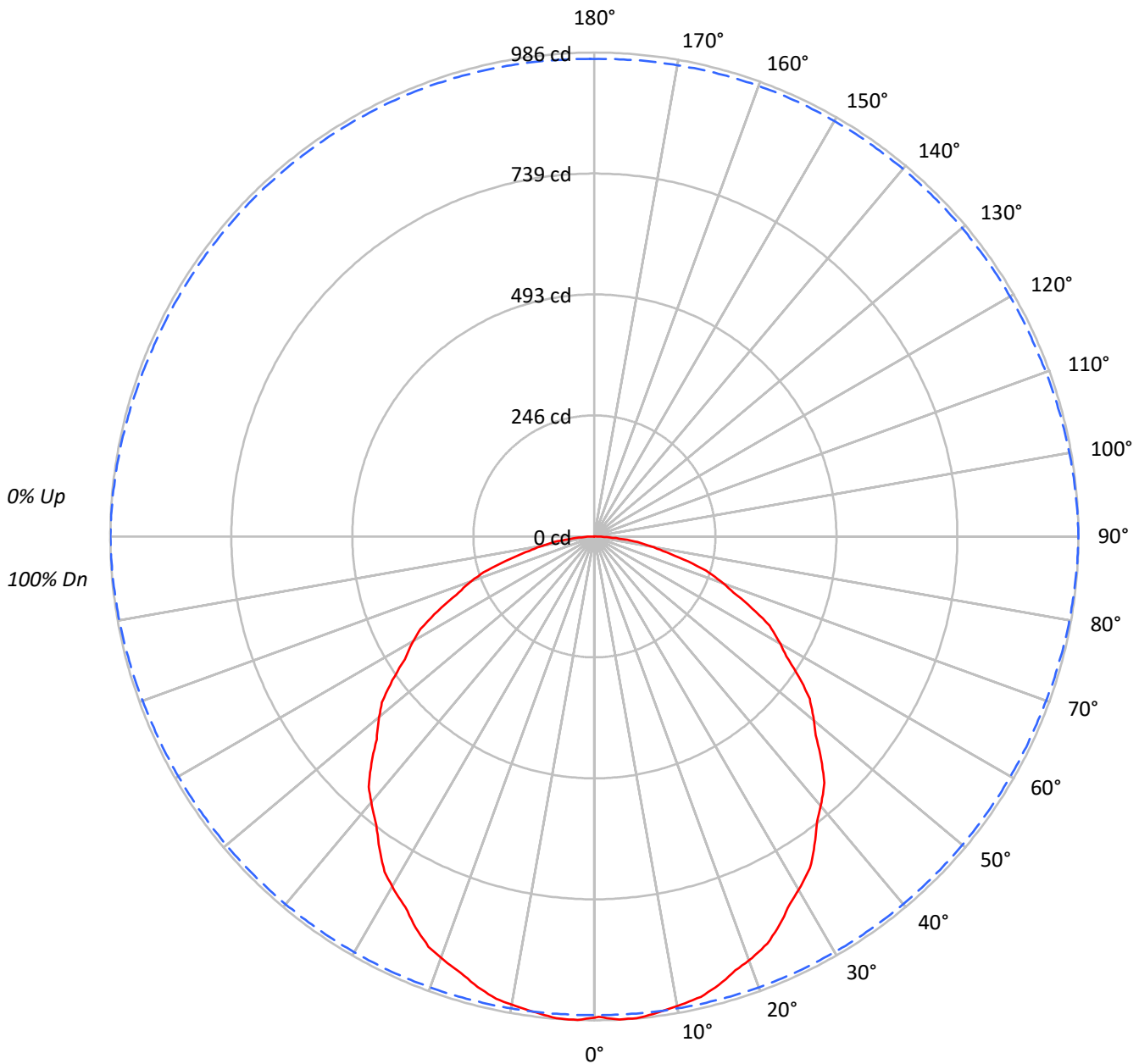
Lumens per Lamp: N/A  
Luminaire Lumens: 2732.9 lumens  
Efficiency: N/A  
Efficacy: 86.2 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 31.7  
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	94	91	88	90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70
3	90	80	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	15802	15802	15802
5°	15817	15956	15739
10°	15795	15905	15639
15°	15736	15848	15497
20°	15634	15749	15304
25°	15442	15613	15068
30°	15250	15429	14822
35°	15029	15218	14578
40°	14781	15003	14237
45°	14506	14789	13961
50°	14179	14516	13627
55°	13816	14221	13225
60°	13378	13934	12729
65°	12795	13486	12099
70°	12104	12873	11202
75°	11042	11697	10087
80°	9605	10404	8629
85°	7262	8151	6021



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.6	3.4
10°-20°	264.5	9.7
20°-30°	397.9	14.6
30°-40°	475.3	17.4
40°-50°	488.6	17.9
50°-60°	439.8	16.1
60°-70°	334.7	12.2
70°-80°	189.6	6.9
80°-90°	49.9	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	755.0	27.6
0°-40°	1230.3	45.0
0°-60°	2158.7	79.0
0°-90°	2732.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2732.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	979	979	979	979	979	
5°	976	976	984	973	971	93
15°	941	943	948	936	927	266
25°	867	875	876	861	846	399
35°	762	773	772	756	740	477
45°	635	644	648	629	611	490
55°	491	500	505	486	470	439
65°	335	344	353	332	317	332
75°	177	183	188	172	162	188
85°	39	44	44	39	32	48
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	978.7	978.7	978.7	978.7	978.7	978.7	978.7	978.7	978.7
2.5°	974.9	977.9	978.0	978.1	985.6	977.4	977.2	977.1	972.6
5°	975.9	975.9	975.9	974.2	984.5	973.3	973.0	971.1	971.1
7.5°	970.3	968.6	969.7	967.7	977.0	964.9	965.5	963.4	963.1
10°	963.4	962.5	964.4	960.8	970.1	958.0	958.6	955.7	953.9
12.5°	955.8	954.8	957.5	952.4	962.5	950.3	950.2	946.6	946.2
15°	941.4	941.4	943.3	939.7	948.1	936.0	935.7	931.8	927.1
17.5°	924.4	922.3	926.9	921.0	929.6	915.9	916.9	911.3	906.0
20°	909.9	907.0	914.6	907.2	916.6	900.7	903.2	894.5	890.7
22.5°	893.0	891.0	899.3	892.6	901.2	886.1	887.1	876.1	873.1
25°	866.8	865.9	875.4	868.0	876.4	860.5	861.1	849.5	845.8
27.5°	837.9	837.2	847.7	840.2	847.5	832.7	833.1	820.4	815.7
30°	818.0	818.0	828.5	821.0	827.6	813.5	813.2	799.7	795.0
32.5°	796.6	795.8	806.3	800.3	806.1	791.4	790.3	777.5	772.9
35°	762.5	762.5	773.0	766.5	772.1	759.0	755.8	743.3	739.6
37.5°	726.5	725.6	736.1	732.0	737.1	723.2	718.9	705.5	704.5
40°	701.3	700.4	710.9	709.0	711.8	698.7	693.6	680.1	675.5
42.5°	675.3	675.8	684.8	683.0	686.6	673.5	668.4	654.2	651.7
45°	635.3	634.3	643.9	643.0	647.7	634.6	628.6	613.2	611.4
47.5°	593.6	593.9	602.4	603.4	606.2	594.2	587.1	571.9	570.0
50°	564.5	566.3	574.0	575.1	577.9	566.6	558.7	544.3	542.5
52.5°	536.2	537.3	545.0	548.2	548.8	539.1	529.6	516.0	514.2
55°	490.8	493.6	500.4	504.2	505.2	496.7	486.0	472.6	469.8
57.5°	444.9	446.8	456.0	460.4	460.6	451.8	441.1	428.5	424.0
60°	414.3	416.1	423.8	430.6	431.5	421.2	410.4	397.9	394.2
62.5°	382.9	384.8	392.5	399.2	400.1	390.6	379.1	366.6	363.6
65°	334.9	336.7	344.4	352.1	353.0	343.7	332.0	319.5	316.7
67.5°	287.8	289.7	297.2	303.5	305.6	295.5	284.7	273.2	269.4
70°	256.4	258.3	265.0	269.9	272.7	263.3	252.6	241.0	237.3
72.5°	223.5	224.6	231.3	236.9	237.5	229.6	219.7	210.4	207.4
75°	177.0	178.9	182.7	188.5	187.5	180.0	172.2	165.4	161.7
77.5°	132.4	134.5	138.2	142.0	142.6	135.6	129.0	122.2	119.6
80°	103.3	106.1	109.1	112.9	111.9	107.3	101.4	94.7	92.8
82.5°	76.5	78.6	82.3	85.3	82.9	79.7	75.4	68.7	66.8
85°	39.2	40.2	44.0	46.8	44.0	43.1	39.2	34.4	32.5
87.5°	8.4	9.9	13.0	16.8	13.8	14.5	11.5	7.6	6.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)