

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: P511762

Luminaire Tested: **SQW-F-050U-075D-835-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P511762  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-16,  
Test Lab: INNOVATION CENTER  
Issue Date: 4/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQW-F-050U-075D-835-1D-UNV-STD-W-4  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

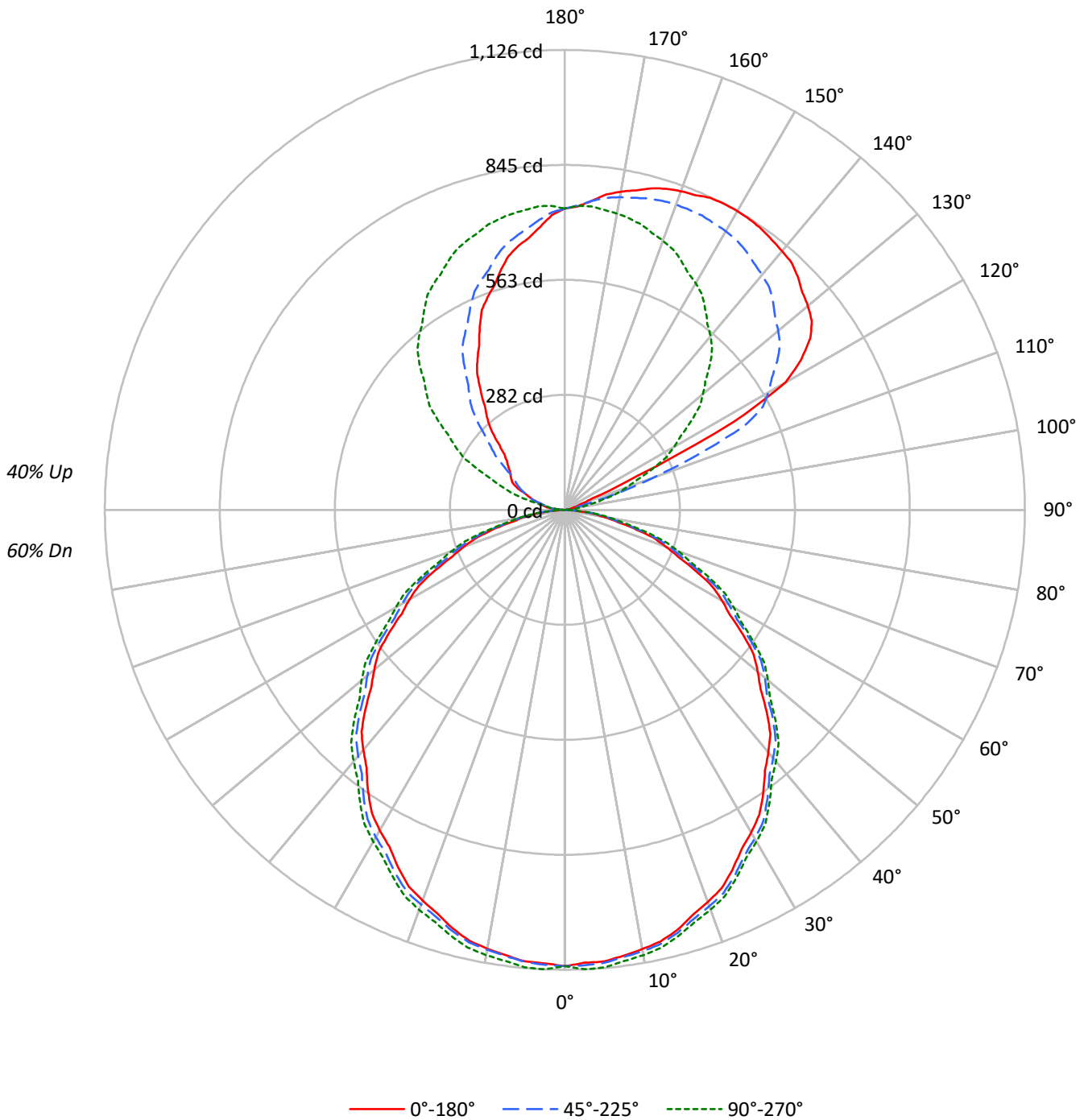
Lumens per Lamp: N/A  
Luminaire Lumens: 5099.7 lumens  
Efficiency: N/A  
Efficacy: 122.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 41.6  
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





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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	109	109	109	109	102	102	102	102	89	89	89	76	76	76	65	65	65	60
1	100	96	92	88	93	89	86	83	78	75	73	67	65	64	57	56	55	50
2	91	83	77	72	85	78	73	68	68	64	60	59	56	53	50	48	46	42
3	83	73	66	60	77	69	62	57	60	55	51	52	48	45	45	42	39	35
4	76	65	57	50	70	61	54	48	53	48	43	46	42	38	40	36	34	30
5	70	58	49	43	65	54	47	41	48	42	37	42	37	33	36	32	29	26
6	64	52	43	37	60	49	41	36	43	37	32	37	33	29	32	29	26	23
7	59	47	39	33	55	44	37	31	39	33	28	34	29	26	30	26	23	20
8	55	42	35	29	51	40	33	28	35	30	25	31	26	23	27	23	20	18
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	25	21	18	16
10	48	36	28	23	45	34	27	22	30	24	20	27	22	19	23	19	17	15

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

	0°	90°	180°
0°	36070	36070	36070
5°	35981	36435	35981
10°	35807	36299	35774
15°	35604	36072	35470
20°	35120	35808	34983
25°	34597	35416	34419
30°	34006	34976	33782
35°	33390	34454	33114
40°	32669	33892	32332
45°	31876	33292	31511
50°	30946	32604	30594
55°	29951	31753	29557
60°	28675	30806	28352
65°	26972	29570	26743
70°	24926	27852	24737
75°	21709	24953	21709
80°	17480	20828	18038
85°	10004	14079	11856



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.6	2.1
10°-20°	300.9	5.9
20°-30°	450.9	8.8
30°-40°	536.1	10.5
40°-50°	548.8	10.8
50°-60°	489.3	9.6
60°-70°	365.6	7.2
70°-80°	199.3	3.9
80°-90°	47.2	0.9
90°-100°	18.1	0.4
100°-110°	82.8	1.6
110°-120°	242.8	4.8
120°-130°	365.4	7.2
130°-140°	392.4	7.7
140°-150°	374.5	7.3
150°-160°	308.2	6.0
160°-170°	201.8	4.0
170°-180°	70.0	1.4
0°-30°	857.4	16.8
0°-40°	1393.5	27.3
0°-60°	2431.6	47.7
0°-90°	3043.7	59.7
90°-120°	343.7	6.7
90°-150°	1476.0	28.9
90°-180°	2056.0	40.3
0°-180°	5099.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1117	1117	1117	1117	1117	
5°	1110	1113	1124	1111	1110	105
15°	1065	1071	1079	1067	1061	300
25°	971	986	994	982	966	447
35°	847	864	874	859	840	529
45°	698	719	729	711	690	538
55°	532	553	564	547	525	475
65°	353	371	387	369	350	350
75°	174	187	200	188	174	186
85°	27	35	38	39	32	39
90°	1	1	1	2	4	1
95°	5	6	13	23	22	6
105°	23	54	95	63	67	26
115°	195	483	236	118	131	260
125°	734	634	376	177	164	645
135°	806	721	503	299	230	623
145°	839	774	599	428	360	526
155°	842	795	674	547	492	389
165°	815	789	723	644	607	231
175°	759	759	746	713	695	74
180°	737	737	737	737	737	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1117.0	1117.0	1117.0	1117.0	1117.0	1117.0	1117.0	1117.0	1117.0
2.5°	1109.8	1115.3	1116.2	1114.8	1125.8	1115.6	1115.4	1115.3	1111.4
5°	1110.0	1110.0	1113.0	1111.3	1124.0	1111.3	1111.0	1109.0	1110.0
7.5°	1100.8	1102.0	1104.2	1102.3	1114.2	1101.3	1102.0	1099.0	1100.6
10°	1092.0	1094.0	1097.0	1094.3	1107.0	1093.3	1094.0	1091.0	1091.0
12.5°	1082.4	1084.4	1088.2	1084.7	1097.4	1084.5	1084.4	1080.6	1080.6
15°	1065.0	1067.0	1071.0	1067.3	1079.0	1065.3	1067.0	1062.0	1061.0
17.5°	1040.4	1044.5	1049.8	1046.1	1058.0	1044.1	1045.0	1038.2	1036.4
20°	1022.0	1026.9	1033.0	1029.3	1042.0	1027.3	1029.0	1019.0	1018.0
22.5°	1002.8	1006.9	1015.4	1011.7	1023.6	1009.7	1011.4	998.2	998.0
25°	971.0	974.9	986.0	983.2	994.0	980.3	982.0	967.0	966.0
27.5°	936.8	941.9	953.0	950.4	961.2	946.5	948.2	932.0	930.0
30°	912.0	917.9	929.0	927.2	938.0	923.3	925.0	908.0	906.0
32.5°	885.6	893.0	904.2	903.2	913.2	899.3	898.6	882.3	879.6
35°	847.0	852.9	864.0	865.2	874.0	861.3	859.0	842.9	840.0
37.5°	804.6	810.7	821.8	824.4	832.0	819.5	815.8	799.7	796.6
40°	775.0	781.8	793.0	797.2	804.0	792.3	787.0	770.9	767.0
42.5°	744.6	752.2	764.2	768.3	774.4	762.7	756.6	741.3	736.6
45°	698.0	705.8	719.0	724.1	729.0	718.2	711.0	694.9	690.0
47.5°	649.6	657.4	671.0	677.3	681.0	672.2	663.8	647.7	641.8
50°	616.0	623.8	639.0	646.1	649.0	640.2	631.0	614.9	609.0
52.5°	583.2	590.2	605.4	613.2	615.4	608.2	598.2	582.8	576.2
55°	532.0	538.8	553.0	562.0	564.0	558.1	547.0	530.9	525.0
57.5°	479.2	486.0	500.0	510.0	512.2	506.3	494.2	480.0	473.4
60°	444.0	450.8	464.0	474.1	477.0	471.1	459.0	444.9	439.0
62.5°	408.0	413.3	427.2	437.3	441.8	436.7	423.8	408.1	403.0
65°	353.0	358.9	371.0	383.1	387.0	383.1	369.0	354.9	350.0
67.5°	300.0	303.9	315.0	326.9	331.8	327.5	314.8	300.3	297.2
70°	264.0	267.9	279.0	290.1	295.0	289.1	278.0	265.9	262.0
72.5°	226.4	230.3	240.6	251.7	255.8	249.9	240.4	229.9	225.2
75°	174.0	177.9	187.0	196.1	200.0	196.1	188.0	178.9	174.0
77.5°	125.2	128.9	136.8	144.6	146.4	143.9	138.2	130.3	126.6
80°	94.0	96.9	104.0	111.0	112.0	111.0	107.0	99.9	97.0
82.5°	66.0	68.2	75.2	80.6	80.0	82.2	78.2	72.0	69.8
85°	27.0	29.0	35.0	40.9	38.0	42.9	39.0	34.9	32.0
87.5°	3.4	3.4	6.6	11.4	10.6	13.7	10.8	8.6	7.2
90°	1.0	1.0	1.0	1.0	1.0	1.0	2.1	3.1	4.1
92.5°	2.7	2.7	2.7	3.5	3.5	8.3	6.2	5.6	6.6
95°	5.1	5.1	6.2	15.4	13.4	20.4	22.7	21.6	21.6
97.5°	9.1	9.1	11.7	41.0	30.3	27.9	38.1	39.3	38.9
100°	12.4	12.4	17.5	65.4	44.3	36.2	42.2	48.5	50.5
102.5°	15.7	16.5	26.6	101.3	62.4	46.3	48.0	54.2	56.2
105°	22.7	24.7	53.6	170.3	94.8	61.5	62.8	63.9	66.9
107.5°	33.6	41.0	135.7	243.1	133.7	80.7	83.4	80.1	80.3
110°	44.3	61.4	229.7	289.6	161.7	94.2	95.8	91.7	92.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	72.3	121.6	349.2	326.5	191.4	110.2	104.8	108.9	106.7
115°	194.7	317.5	483.0	379.9	235.9	137.2	118.4	127.8	130.8
117.5°	465.1	548.1	546.1	425.0	280.1	169.8	131.0	139.8	144.8
120°	624.2	636.2	575.7	453.0	309.0	192.2	140.1	146.4	151.4
122.5°	686.0	671.4	600.5	478.6	336.2	216.1	152.4	151.3	157.2
125°	734.4	708.2	634.5	513.9	375.9	256.1	177.2	160.7	163.8
127.5°	761.8	732.8	663.7	547.0	416.3	296.1	209.9	176.3	174.5
130°	776.6	748.4	681.8	567.7	441.9	324.0	233.8	189.4	184.4
132.5°	788.9	763.2	698.3	587.6	466.6	351.2	259.3	209.1	200.0
135°	806.5	782.3	721.0	614.4	502.6	389.8	298.7	242.8	229.7
137.5°	821.3	796.7	740.1	639.9	533.7	427.6	337.0	283.9	268.6
140°	827.1	804.9	750.8	654.8	555.1	451.4	362.5	308.7	296.6
142.5°	832.8	811.5	760.7	669.8	573.3	474.4	388.9	335.1	322.2
145°	839.4	818.3	773.5	689.1	599.4	507.8	428.5	373.6	360.5
147.5°	842.9	824.0	783.0	705.3	625.0	538.6	467.4	412.1	400.2
150°	844.6	826.4	787.9	716.2	640.6	559.1	491.3	438.5	427.4
152.5°	844.6	825.6	790.4	724.5	653.8	577.9	514.4	464.1	453.8
155°	842.5	824.4	795.1	735.0	673.6	605.1	546.9	503.4	492.3
157.5°	834.3	823.4	795.1	744.7	690.7	630.5	578.6	539.9	530.0
160°	830.1	820.1	795.1	749.7	701.4	646.0	598.4	562.2	553.1
162.5°	824.4	814.3	793.5	753.2	710.5	659.9	617.4	582.0	575.3
165°	814.7	804.6	788.9	756.3	723.0	679.7	643.7	613.7	606.6
167.5°	800.9	795.3	782.6	757.2	730.7	697.4	666.0	641.9	636.3
170°	791.0	787.0	777.6	756.6	736.4	707.2	680.8	660.1	656.1
172.5°	778.6	776.2	770.2	755.8	740.5	717.0	694.8	675.0	671.7
175°	759.1	761.1	759.1	752.7	745.7	729.6	712.7	698.2	695.2
177.5°	744.0	744.0	745.7	745.7	744.9	736.8	729.2	721.0	722.6
180°	737.4	737.4	737.4	737.4	737.4	737.4	737.4	737.4	737.4

(END OF REPORT)