

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: P511732

Luminaire Tested: **SQW-F-025U-075D-835-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P511732  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-15,  
Test Lab: INNOVATION CENTER  
Issue Date: 4/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQW-F-025U-075D-835-1D-UNV-STD-W-4  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

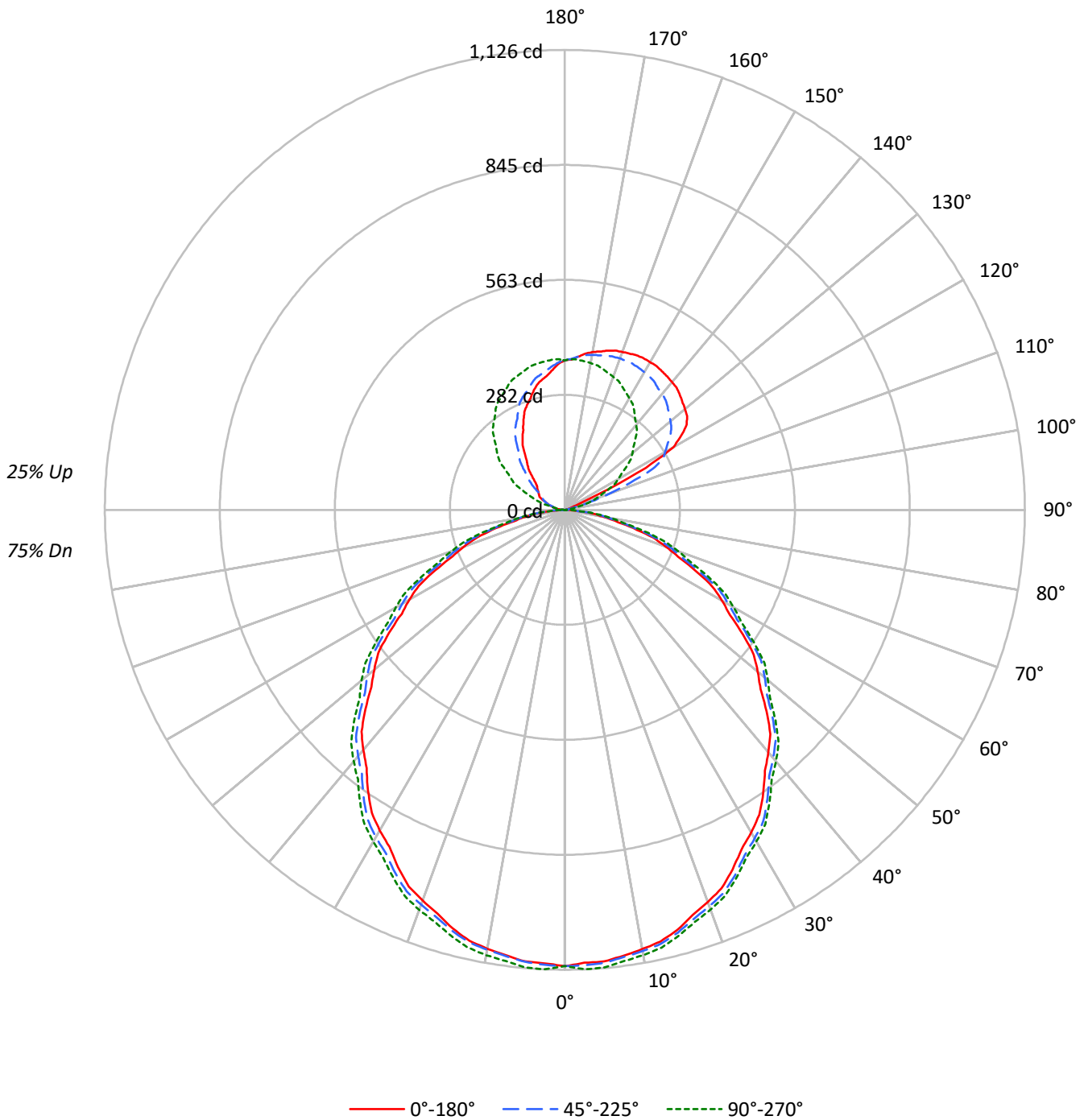
Lumens per Lamp: N/A  
Luminaire Lumens: 4055.1 lumens  
Efficiency: N/A  
Efficacy: 116.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 34.7  
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





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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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75
1	103	99	95	91	98	94	91	87	85	83	80	77	75	73	70	68	67	63
2	94	86	80	74	89	82	76	72	75	70	66	68	64	61	61	59	56	53
3	86	76	68	62	81	72	65	60	66	60	56	60	55	52	54	51	48	44
4	78	67	59	52	74	64	57	51	59	52	47	53	48	44	48	44	41	38
5	72	60	51	45	68	57	49	44	52	46	41	48	42	38	44	39	36	33
6	66	54	45	39	63	52	44	38	47	41	36	43	38	33	40	35	31	29
7	62	49	40	34	58	47	39	33	43	36	32	39	34	30	36	31	28	26
8	57	44	36	31	54	43	35	30	39	33	28	36	31	26	33	28	25	23
9	53	41	33	27	51	39	32	27	36	30	25	33	28	24	31	26	22	20
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	19

**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	2.6
10°-20°	300.9	7.4
20°-30°	450.9	11.1
30°-40°	536.1	13.2
40°-50°	548.8	13.5
50°-60°	489.3	12.1
60°-70°	365.6	9.0
70°-80°	199.3	4.9
80°-90°	47.0	1.2
90°-100°	9.0	0.2
100°-110°	41.0	1.0
110°-120°	119.0	2.9
120°-130°	179.6	4.4
130°-140°	192.3	4.7
140°-150°	183.8	4.5
150°-160°	152.2	3.8
160°-170°	99.9	2.5
170°-180°	34.7	0.9
0°-30°	857.4	21.1
0°-40°	1393.5	34.4
0°-60°	2431.6	60.0
0°-90°	3043.5	75.1
90°-120°	169.0	4.2
90°-150°	724.8	17.9
90°-180°	1012.0	25.0
0°-180°	4055.1	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	0	1	2	1
95°	3	3	7	12	10	3
105°	11	27	47	31	33	13
115°	94	238	117	58	64	126
125°	364	315	184	87	80	319
135°	398	356	244	144	110	308
145°	414	382	296	209	173	260
155°	417	394	333	270	240	193
165°	403	391	358	319	299	114
175°	376	376	369	353	344	36
180°	366	366	366	366	366	



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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	11.2	10.4	13.5	10.6	8.2	6.8
90°	1.0	1.0	1.0	0.0	0.0	0.0	1.0	1.0	2.0
92.5°	1.0	1.8	1.0	1.6	1.6	4.0	3.4	2.6	2.8
95°	3.0	3.0	3.0	7.1	7.1	10.0	12.1	11.1	10.1
97.5°	4.4	4.4	5.8	19.9	15.7	13.4	18.8	19.4	19.4
100°	6.0	6.0	9.1	31.1	22.2	18.2	21.2	24.2	24.2
102.5°	7.7	8.5	13.9	48.6	31.1	22.4	24.4	26.6	27.4
105°	11.1	12.1	27.2	82.9	47.4	30.6	31.3	32.3	33.3
107.5°	16.5	20.5	68.4	118.4	67.1	39.5	41.7	39.9	39.9
110°	22.2	30.1	115.9	140.8	81.7	46.2	47.4	46.4	46.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	35.1	58.7	173.2	159.3	96.2	54.4	52.2	54.4	52.8
115°	93.8	152.9	237.9	185.0	117.0	67.7	58.5	62.5	63.5
117.5°	223.4	267.4	269.8	206.5	138.3	82.5	63.5	68.2	70.2
120°	306.5	313.4	284.3	220.2	151.2	93.1	67.6	70.6	72.6
122.5°	338.0	331.4	297.2	233.1	164.1	105.2	74.0	73.8	75.8
125°	364.0	350.2	314.6	252.5	184.5	124.4	86.7	78.7	79.6
127.5°	376.9	363.1	328.9	268.5	203.7	144.7	102.6	85.5	84.7
130°	384.1	370.3	337.8	279.8	215.8	157.6	113.9	92.7	88.7
132.5°	390.6	377.6	345.8	288.8	227.9	169.7	126.0	101.5	96.0
135°	398.2	385.4	355.9	302.2	244.0	188.8	144.2	117.8	109.9
137.5°	405.1	393.3	365.2	314.2	260.9	205.9	162.5	136.9	128.2
140°	408.3	396.5	370.0	321.5	272.2	218.0	175.4	149.0	141.2
142.5°	411.6	400.5	374.9	328.8	281.9	230.0	188.3	161.9	154.1
145°	414.4	404.5	382.1	338.8	296.4	247.1	208.7	181.3	173.4
147.5°	417.4	407.0	386.8	347.4	308.3	264.0	227.1	200.7	193.0
150°	417.4	408.5	389.2	353.0	315.6	275.2	240.0	213.6	206.7
152.5°	418.2	408.5	391.6	357.9	323.6	285.6	252.1	226.5	220.4
155°	417.4	408.5	394.2	364.3	332.7	299.2	270.2	245.9	240.0
157.5°	413.8	408.1	394.2	368.0	342.0	311.2	285.9	266.8	258.5
160°	411.4	406.4	394.2	370.5	346.8	319.2	296.4	278.1	272.2
162.5°	408.9	404.0	393.4	373.0	351.7	326.4	305.3	287.8	283.5
165°	403.3	399.3	391.2	374.7	357.9	336.2	318.6	303.4	299.4
167.5°	397.0	394.3	387.6	375.8	362.6	345.6	330.3	318.5	314.0
170°	392.2	390.2	385.1	375.8	365.0	351.2	336.7	326.6	323.6
172.5°	385.7	384.6	381.9	374.3	366.6	355.2	344.0	334.7	331.7
175°	376.1	376.1	376.1	373.0	369.0	361.1	352.9	345.8	343.8
177.5°	368.4	369.2	370.0	369.2	369.2	365.3	361.1	357.1	357.9
180°	366.0	366.0	366.0	366.0	366.0	366.0	366.0	366.0	366.0

(END OF REPORT)