

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: P511733

Luminaire Tested: **SQW-F-025U-075D-840-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P511733  
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-840-1D-UNV-STD-W-4  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

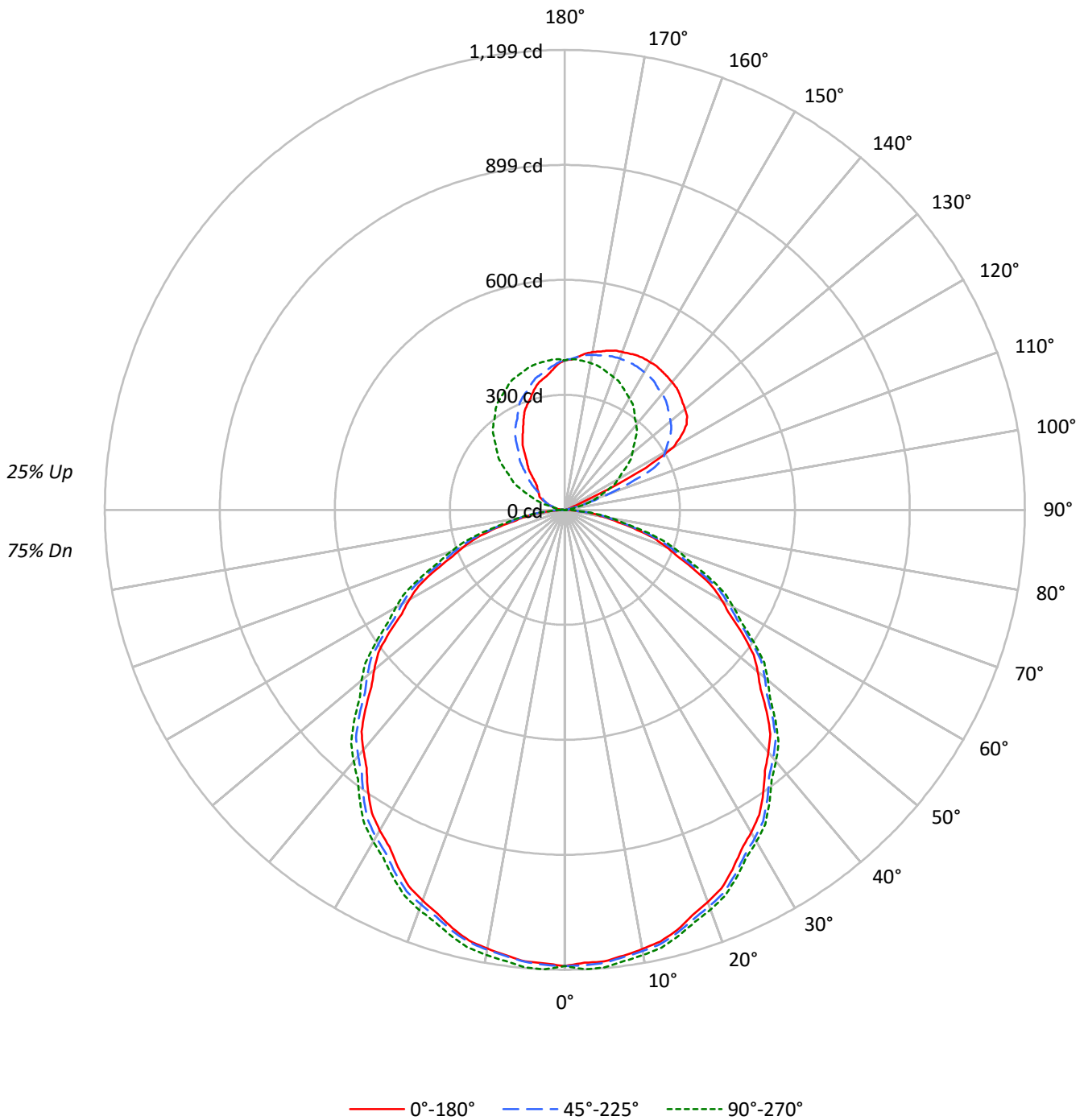
Lumens per Lamp: N/A  
Luminaire Lumens: 4317.7 lumens  
Efficiency: N/A  
Efficacy: 124.4 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')  
CIE Type: Semi-Direct

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°	38405	38405	38405
5°	38312	38795	38312
10°	38125	38650	38089
15°	37907	38409	37767
20°	37395	38127	37247
25°	36838	37707	36646
30°	36206	37239	35971
35°	35550	36685	35258
40°	34786	36084	34427
45°	33940	35447	33552
50°	32951	34714	32574
55°	31888	33808	31471
60°	30529	32802	30186
65°	28722	31488	28478
70°	26540	29656	26342
75°	23119	26563	23119
80°	18615	22185	19210
85°	10634	15006	12634



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.4	2.6
10°-20°	320.4	7.4
20°-30°	480.1	11.1
30°-40°	570.8	13.2
40°-50°	584.3	13.5
50°-60°	521.0	12.1
60°-70°	389.3	9.0
70°-80°	212.2	4.9
80°-90°	50.1	1.2
90°-100°	9.5	0.2
100°-110°	43.7	1.0
110°-120°	126.7	2.9
120°-130°	191.3	4.4
130°-140°	204.8	4.7
140°-150°	195.7	4.5
150°-160°	162.0	3.8
160°-170°	106.4	2.5
170°-180°	36.9	0.9
0°-30°	912.9	21.1
0°-40°	1483.7	34.4
0°-60°	2589.0	60.0
0°-90°	3240.6	75.1
90°-120°	180.0	4.2
90°-150°	771.7	17.9
90°-180°	1077.0	24.9
0°-180°	4317.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1189	1189	1189	1189	1189	
5°	1182	1185	1197	1183	1182	112
15°	1134	1140	1149	1136	1130	319
25°	1034	1050	1058	1046	1028	476
35°	902	920	931	915	894	563
45°	743	766	776	757	735	573
55°	566	589	600	582	559	506
65°	376	395	412	393	373	373
75°	185	199	213	200	185	198
85°	29	37	40	42	34	41
90°	1	1	0	1	2	1
95°	3	3	8	13	11	3
105°	12	29	50	33	35	14
115°	100	253	124	62	68	134
125°	388	335	196	92	85	339
135°	424	379	260	154	117	328
145°	441	407	316	222	185	277
155°	444	420	354	288	256	205
165°	429	416	381	339	319	122
175°	400	400	393	376	366	39
180°	390	390	390	390	390	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1189.3	1189.3	1189.3	1189.3	1189.3	1189.3	1189.3	1189.3	1189.3
2.5°	1181.6	1187.5	1188.5	1187.0	1198.7	1187.9	1187.6	1187.5	1183.3
5°	1181.9	1181.9	1185.1	1183.2	1196.8	1183.2	1182.9	1180.8	1181.9
7.5°	1172.1	1173.3	1175.7	1173.6	1186.3	1172.6	1173.3	1170.2	1171.9
10°	1162.7	1164.8	1168.0	1165.1	1178.7	1164.1	1164.8	1161.6	1161.6
12.5°	1152.5	1154.6	1158.6	1154.9	1168.4	1154.7	1154.6	1150.6	1150.6
15°	1133.9	1136.0	1140.3	1136.4	1148.9	1134.3	1136.1	1130.7	1129.7
17.5°	1107.8	1112.1	1117.8	1113.8	1126.5	1111.7	1112.7	1105.4	1103.5
20°	1088.2	1093.4	1099.9	1095.9	1109.5	1093.8	1095.6	1084.9	1083.9
22.5°	1067.7	1072.1	1081.1	1077.2	1089.9	1075.1	1076.9	1062.8	1062.6
25°	1033.9	1038.0	1049.8	1046.9	1058.3	1043.8	1045.6	1029.6	1028.5
27.5°	997.4	1002.9	1014.7	1012.0	1023.4	1007.8	1009.6	992.3	990.2
30°	971.0	977.3	989.1	987.3	998.7	983.1	984.9	966.7	964.7
32.5°	942.9	950.8	962.7	961.7	972.3	957.5	956.8	939.5	936.5
35°	901.8	908.1	919.9	921.2	930.6	917.0	914.6	897.5	894.4
37.5°	856.7	863.1	875.0	877.7	885.9	872.5	868.6	851.5	848.2
40°	825.2	832.5	844.3	848.8	856.0	843.6	837.9	820.8	816.7
42.5°	792.8	800.9	813.7	818.1	824.5	812.0	805.6	789.3	784.3
45°	743.2	751.5	765.5	771.0	776.2	764.7	757.0	739.9	734.7
47.5°	691.7	700.0	714.4	721.1	725.1	715.7	706.8	689.6	683.3
50°	655.9	664.2	680.4	687.9	691.0	681.6	671.8	654.7	648.4
52.5°	621.0	628.5	644.6	652.9	655.2	647.5	636.9	620.6	613.5
55°	566.4	573.7	588.8	598.4	600.5	594.3	582.4	565.2	559.0
57.5°	510.2	517.5	532.4	543.1	545.4	539.1	526.2	511.1	504.0
60°	472.7	480.0	494.0	504.8	507.9	501.6	488.7	473.7	467.4
62.5°	434.4	440.0	454.9	465.6	470.4	465.0	451.2	434.5	429.1
65°	375.9	382.1	395.0	407.9	412.1	407.9	392.9	377.9	372.7
67.5°	319.4	323.6	335.4	348.1	353.3	348.7	335.2	319.8	316.4
70°	281.1	285.3	297.1	308.9	314.1	307.9	296.0	283.1	279.0
72.5°	241.1	245.2	256.2	268.0	272.4	266.1	256.0	244.8	239.8
75°	185.3	189.4	199.1	208.8	212.9	208.8	200.2	190.5	185.3
77.5°	133.3	137.3	145.7	154.0	155.9	153.2	147.1	138.8	134.8
80°	100.1	103.2	110.7	118.2	119.3	118.2	113.9	106.4	103.3
82.5°	70.3	72.6	80.1	85.8	85.2	87.5	83.3	76.6	74.3
85°	28.7	30.8	37.3	43.6	40.5	45.7	41.5	37.2	34.1
87.5°	3.6	3.6	7.0	11.9	11.1	14.4	11.3	8.7	7.2
90°	1.1	1.1	1.1	0.0	0.0	0.0	1.1	1.1	2.1
92.5°	1.1	1.9	1.1	1.7	1.7	4.2	3.6	2.8	3.0
95°	3.2	3.2	3.2	7.5	7.5	10.7	12.9	11.8	10.7
97.5°	4.7	4.7	6.2	21.2	16.7	14.2	20.0	20.6	20.6
100°	6.4	6.4	9.7	33.1	23.6	19.4	22.5	25.8	25.8
102.5°	8.2	9.0	14.8	51.7	33.1	23.8	26.0	28.4	29.2
105°	11.8	12.9	29.0	88.2	50.5	32.6	33.3	34.4	35.4
107.5°	17.6	21.8	72.8	126.1	71.5	42.1	44.4	42.5	42.5
110°	23.6	32.0	123.5	149.9	87.0	49.2	50.5	49.4	49.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	37.4	62.5	184.4	169.6	102.4	57.9	55.6	57.9	56.3
115°	99.8	162.8	253.3	196.9	124.5	72.0	62.3	66.6	67.6
117.5°	237.9	284.7	287.3	219.9	147.3	87.9	67.6	72.6	74.7
120°	326.3	333.7	302.7	234.5	161.0	99.1	71.9	75.2	77.3
122.5°	359.8	352.9	316.5	248.2	174.8	112.0	78.8	78.6	80.7
125°	387.5	372.8	334.9	268.9	196.4	132.4	92.3	83.8	84.8
127.5°	401.3	386.6	350.2	285.9	216.8	154.1	109.3	91.0	90.2
130°	409.0	394.3	359.6	298.0	229.7	167.8	121.3	98.7	94.5
132.5°	415.9	402.0	368.2	307.5	242.6	180.7	134.2	108.1	102.2
135°	424.0	410.4	378.9	321.7	259.8	201.0	153.5	125.4	117.0
137.5°	431.3	418.7	388.8	334.5	277.8	219.2	173.0	145.8	136.5
140°	434.8	422.2	394.0	342.3	289.8	232.1	186.8	158.7	150.3
142.5°	438.2	426.4	399.1	350.1	300.1	244.9	200.5	172.4	164.0
145°	441.2	430.7	406.9	360.7	315.6	263.1	222.2	193.0	184.6
147.5°	444.4	433.3	411.8	369.8	328.3	281.0	241.7	213.7	205.5
150°	444.4	435.0	414.4	375.9	336.0	293.0	255.5	227.4	220.1
152.5°	445.3	435.0	416.9	381.1	344.6	304.1	268.4	241.2	234.7
155°	444.4	435.0	419.7	387.8	354.3	318.6	287.7	261.8	255.5
157.5°	440.6	434.5	419.7	391.8	364.1	331.4	304.4	284.1	275.2
160°	438.0	432.7	419.7	394.5	369.3	339.9	315.6	296.1	289.8
162.5°	435.4	430.2	418.9	397.1	374.4	347.6	325.1	306.5	301.9
165°	429.4	425.2	416.5	398.9	381.1	358.0	339.2	323.0	318.8
167.5°	422.7	419.8	412.6	400.1	386.0	368.0	351.7	339.1	334.3
170°	417.6	415.5	410.1	400.1	388.6	373.9	358.5	347.7	344.6
172.5°	410.7	409.5	406.6	398.5	390.3	378.1	366.3	356.3	353.2
175°	400.4	400.4	400.4	397.1	392.9	384.5	375.7	368.2	366.1
177.5°	392.3	393.1	394.0	393.1	393.1	388.9	384.5	380.2	381.1
180°	389.7	389.7	389.7	389.7	389.7	389.7	389.7	389.7	389.7

(END OF REPORT)