

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: P522387

Luminaire Tested: **SQW-F-075U-075D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522387  
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-075U-075D-92765-1D-UNV-STD-W-4 (4000K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

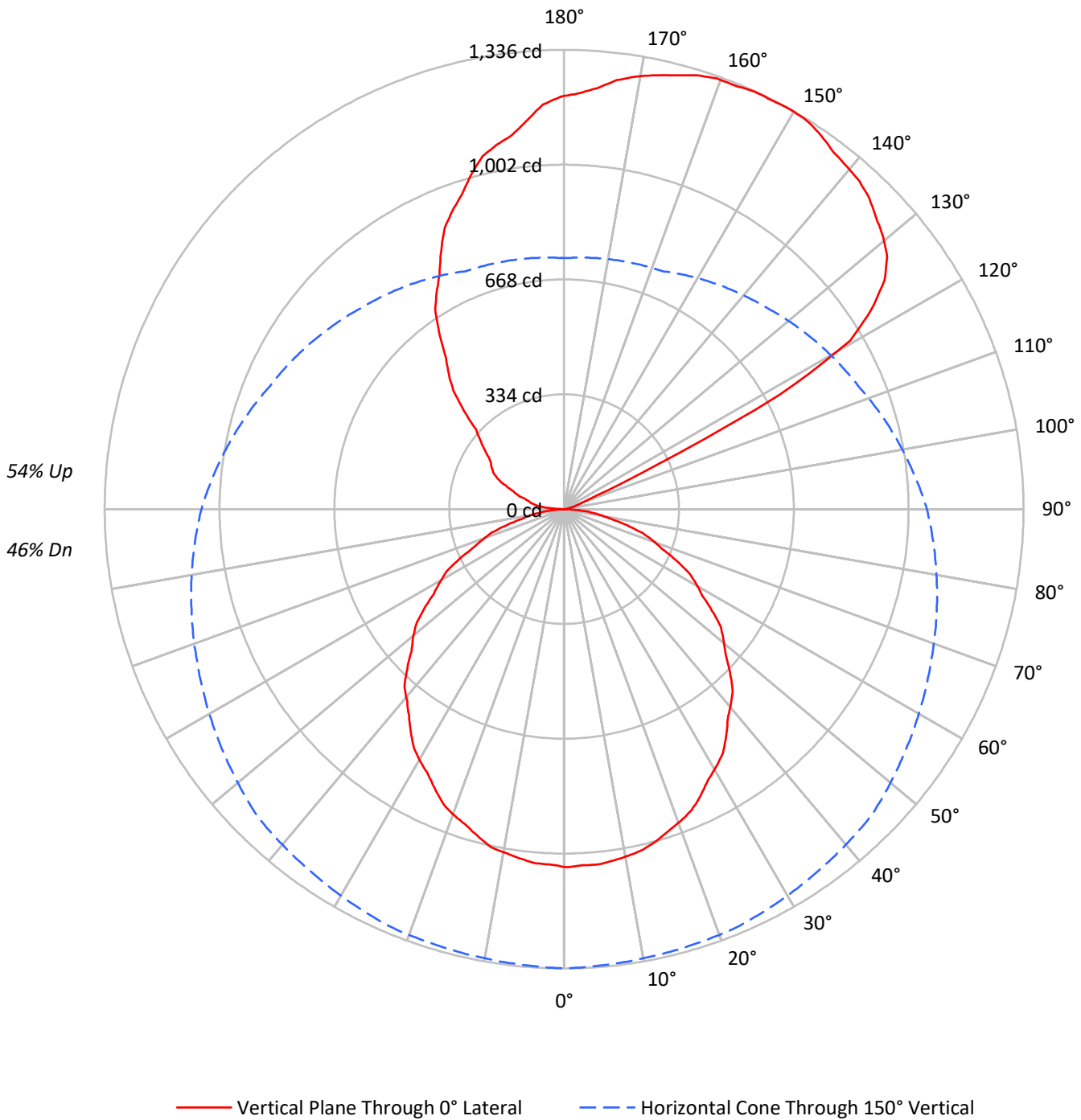
Lumens per Lamp: N/A  
Luminaire Lumens: 6255.9 lumens  
Efficiency: N/A  
Efficacy: 108.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 57.6  
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	106	106	106	106	98	98	98	98	81	81	81	67	67	67	53	53	53	46
1	97	93	89	85	89	85	82	79	71	69	67	58	57	55	47	45	44	39
2	88	81	74	69	81	74	69	64	62	58	55	51	48	46	41	39	37	32
3	80	71	63	58	73	65	59	54	55	50	46	45	42	39	36	34	32	27
4	73	63	55	49	67	58	51	45	49	43	39	40	36	33	32	29	27	23
5	67	56	47	41	61	51	44	39	43	38	34	36	32	28	29	26	23	20
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	21	18
7	57	45	37	31	52	42	34	29	35	30	26	29	25	22	24	21	18	16
8	53	41	33	28	49	38	31	26	32	27	23	27	23	19	22	19	16	14
9	49	37	30	25	45	34	28	23	29	24	20	25	20	17	20	17	15	12
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	19	16	13	11

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

	0°	90°	180°
0°	16819	16819	16819
5°	16835	16982	16752
10°	16811	16928	16644
15°	16749	16868	16493
20°	16639	16761	16289
25°	16436	16618	16037
30°	16231	16421	15776
35°	15997	16198	15514
40°	15732	15968	15152
45°	15438	15742	14858
50°	15091	15448	14503
55°	14705	15136	14075
60°	14237	14832	13546
65°	13616	14357	12879
70°	12883	13700	11920
75°	11753	12452	10736
80°	10228	11074	9186
85°	7744	8670	6410



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.5	1.6
10°-20°	281.6	4.5
20°-30°	423.5	6.8
30°-40°	505.9	8.1
40°-50°	520.1	8.3
50°-60°	468.0	7.5
60°-70°	356.2	5.7
70°-80°	201.8	3.2
80°-90°	53.1	0.8
90°-100°	31.5	0.5
100°-110°	136.5	2.2
110°-120°	389.3	6.2
120°-130°	592.0	9.5
130°-140°	640.3	10.2
140°-150°	611.8	9.8
150°-160°	503.2	8.0
160°-170°	328.8	5.3
170°-180°	113.7	1.8
0°-30°	803.6	12.8
0°-40°	1309.5	20.9
0°-60°	2297.6	36.7
0°-90°	2908.8	46.5
90°-120°	557.4	8.9
90°-150°	2401.5	38.4
90°-180°	3347.0	53.5
0°-180°	6255.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1042	1042	1042	1042	1042	
5°	1039	1039	1048	1036	1034	99
15°	1002	1004	1009	996	987	283
25°	923	932	933	916	900	425
35°	812	823	822	804	787	507
45°	676	685	689	669	651	521
55°	522	533	538	517	500	467
65°	356	367	376	353	337	353
75°	188	194	200	183	172	200
85°	42	47	47	42	35	50
90°	0	0	0	0	0	1
95°	5	7	21	51	48	7
105°	32	80	158	108	116	36
115°	287	764	394	187	212	395
125°	1145	1007	630	310	266	1006
135°	1267	1147	829	514	407	976
145°	1320	1235	988	731	623	827
155°	1335	1276	1103	915	831	617
165°	1303	1275	1181	1059	1010	370
175°	1228	1231	1210	1166	1134	119
180°	1200	1200	1200	1200	1200	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7
2.5°	1037.6	1040.8	1040.9	1041.1	1049.0	1040.3	1040.1	1040.0	1035.2
5°	1038.7	1038.7	1038.7	1036.9	1047.8	1035.9	1035.6	1033.6	1033.6
7.5°	1032.8	1031.0	1032.1	1029.9	1039.9	1026.9	1027.7	1025.4	1025.0
10°	1025.4	1024.4	1026.4	1022.6	1032.5	1019.6	1020.3	1017.2	1015.2
12.5°	1017.3	1016.3	1019.1	1013.6	1024.4	1011.5	1011.4	1007.5	1007.1
15°	1002.0	1002.0	1004.0	1000.2	1009.1	996.2	995.9	991.7	986.7
17.5°	983.9	981.7	986.5	980.2	989.4	974.8	975.9	969.9	964.3
20°	968.4	965.4	973.5	965.6	975.5	958.6	961.3	952.0	948.0
22.5°	950.5	948.3	957.2	950.1	959.2	943.1	944.2	932.5	929.3
25°	922.6	921.6	931.7	923.8	932.8	915.8	916.5	904.2	900.2
27.5°	891.8	891.0	902.2	894.2	902.0	886.3	886.7	873.2	868.2
30°	870.6	870.6	881.8	873.9	880.8	865.9	865.5	851.2	846.2
32.5°	847.8	847.0	858.2	851.8	858.0	842.3	841.1	827.6	822.6
35°	811.6	811.6	822.8	815.8	821.8	807.8	804.5	791.1	787.1
37.5°	773.3	772.3	783.5	779.1	784.5	769.8	765.1	750.9	749.9
40°	746.4	745.4	756.6	754.6	757.6	743.7	738.3	723.9	718.9
42.5°	718.7	719.3	728.9	726.9	730.7	716.8	711.4	696.3	693.7
45°	676.1	675.2	685.3	684.4	689.4	675.4	669.0	652.7	650.7
47.5°	631.7	632.1	641.1	642.2	645.2	632.4	624.8	608.7	606.7
50°	600.8	602.8	611.0	612.1	615.0	603.1	594.7	579.4	577.4
52.5°	570.7	571.8	580.0	583.5	584.1	573.7	563.7	549.2	547.2
55°	522.4	525.4	532.6	536.7	537.7	528.7	517.3	503.0	500.0
57.5°	473.5	475.5	485.3	490.0	490.2	480.8	469.4	456.1	451.3
60°	440.9	442.9	451.1	458.3	459.3	448.3	436.8	423.5	419.5
62.5°	407.5	409.5	417.7	424.9	425.9	415.7	403.4	390.1	387.0
65°	356.4	358.4	366.6	374.8	375.8	365.8	353.3	340.0	337.1
67.5°	306.3	308.3	316.3	323.1	325.2	314.5	303.0	290.7	286.8
70°	272.9	274.9	282.1	287.2	290.2	280.3	268.8	256.5	252.5
72.5°	237.9	239.1	246.2	252.1	252.7	244.4	233.8	224.0	220.8
75°	188.4	190.4	194.5	200.6	199.6	191.6	183.3	176.1	172.1
77.5°	140.9	143.1	147.0	151.1	151.7	144.4	137.3	130.1	127.3
80°	110.0	113.0	116.1	120.1	119.1	114.2	107.9	100.8	98.8
82.5°	81.5	83.7	87.6	90.8	88.2	84.8	80.2	73.1	71.1
85°	41.8	42.7	46.8	49.8	46.8	45.8	41.8	36.6	34.6
87.5°	9.0	10.6	13.8	17.8	14.7	15.5	12.2	8.1	7.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.6	1.6	1.6	3.3	4.9	17.6	19.6	17.1	17.1
95°	5.1	5.1	7.1	22.4	21.4	36.3	50.9	47.9	47.9
97.5°	10.4	11.4	16.3	66.2	49.9	48.5	68.8	76.6	78.0
100°	15.3	16.3	24.4	108.2	74.3	63.4	75.4	89.7	92.7
102.5°	21.0	22.8	39.1	170.2	104.5	74.4	85.9	98.7	102.4
105°	31.6	34.6	80.4	285.3	157.8	97.1	107.9	113.1	116.1
107.5°	46.8	59.0	216.7	400.9	224.0	128.2	139.7	139.0	141.5
110°	63.1	88.0	374.7	464.1	272.9	152.4	152.7	160.8	157.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	104.7	175.0	558.8	524.9	321.8	181.4	165.0	182.9	183.9
115°	287.2	493.3	763.7	610.1	394.1	232.8	187.4	204.8	211.8
117.5°	712.0	858.2	868.6	685.8	466.2	290.1	213.0	220.8	229.9
120°	965.3	995.2	917.5	732.3	514.2	331.0	234.2	231.4	241.3
122.5°	1064.7	1054.0	957.4	775.6	561.5	374.3	260.3	244.3	251.1
125°	1144.6	1116.7	1007.1	835.4	630.3	439.2	309.6	265.8	265.8
127.5°	1192.2	1159.8	1052.7	888.6	692.4	504.7	368.8	300.6	291.2
130°	1219.9	1185.1	1080.4	925.3	733.2	547.0	410.4	330.6	315.7
132.5°	1241.1	1209.4	1106.5	954.1	773.1	588.5	451.9	367.9	343.4
135°	1266.8	1239.9	1146.6	998.2	828.9	650.7	514.2	432.2	407.3
137.5°	1283.3	1262.3	1182.6	1034.4	880.6	712.4	577.2	494.8	472.3
140°	1292.2	1275.3	1200.6	1055.8	912.4	752.1	621.2	537.2	516.3
142.5°	1301.2	1287.4	1213.6	1079.6	943.3	791.8	664.3	580.3	557.8
145°	1319.7	1303.8	1235.2	1108.2	987.7	847.4	731.1	643.1	623.2
147.5°	1332.7	1313.6	1252.9	1139.0	1029.7	897.7	792.4	707.5	687.8
150°	1336.0	1316.1	1262.7	1155.5	1055.0	928.5	829.9	749.0	730.1
152.5°	1333.6	1318.4	1270.0	1169.5	1076.1	958.4	864.1	789.0	771.7
155°	1335.0	1321.0	1275.9	1188.4	1102.8	1000.3	915.4	848.9	830.9
157.5°	1328.9	1319.7	1280.0	1202.9	1127.5	1037.6	962.5	906.5	888.4
160°	1328.9	1314.9	1280.0	1211.3	1144.6	1061.9	991.8	941.6	926.6
162.5°	1319.9	1307.6	1279.2	1217.2	1160.9	1084.6	1019.5	972.6	961.7
165°	1303.4	1293.5	1274.9	1225.0	1181.2	1115.5	1059.0	1017.1	1010.1
167.5°	1290.6	1276.8	1266.8	1224.7	1195.1	1137.7	1092.4	1057.7	1053.7
170°	1275.9	1267.0	1258.6	1222.5	1201.6	1153.8	1116.1	1081.3	1077.4
172.5°	1257.2	1252.2	1248.0	1221.0	1205.7	1167.4	1136.4	1104.9	1097.7
175°	1228.1	1232.0	1231.1	1217.7	1209.7	1184.8	1165.9	1143.3	1134.4
177.5°	1210.1	1208.5	1212.6	1210.1	1209.3	1194.2	1189.0	1173.6	1178.4
180°	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6	1199.6

(END OF REPORT)