

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: P522378

Luminaire Tested: **SQW-F-075U-050D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522378
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-050D-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5242.9 lumens
Efficiency: N/A
Efficacy: 111.3 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: Semi-Indirect

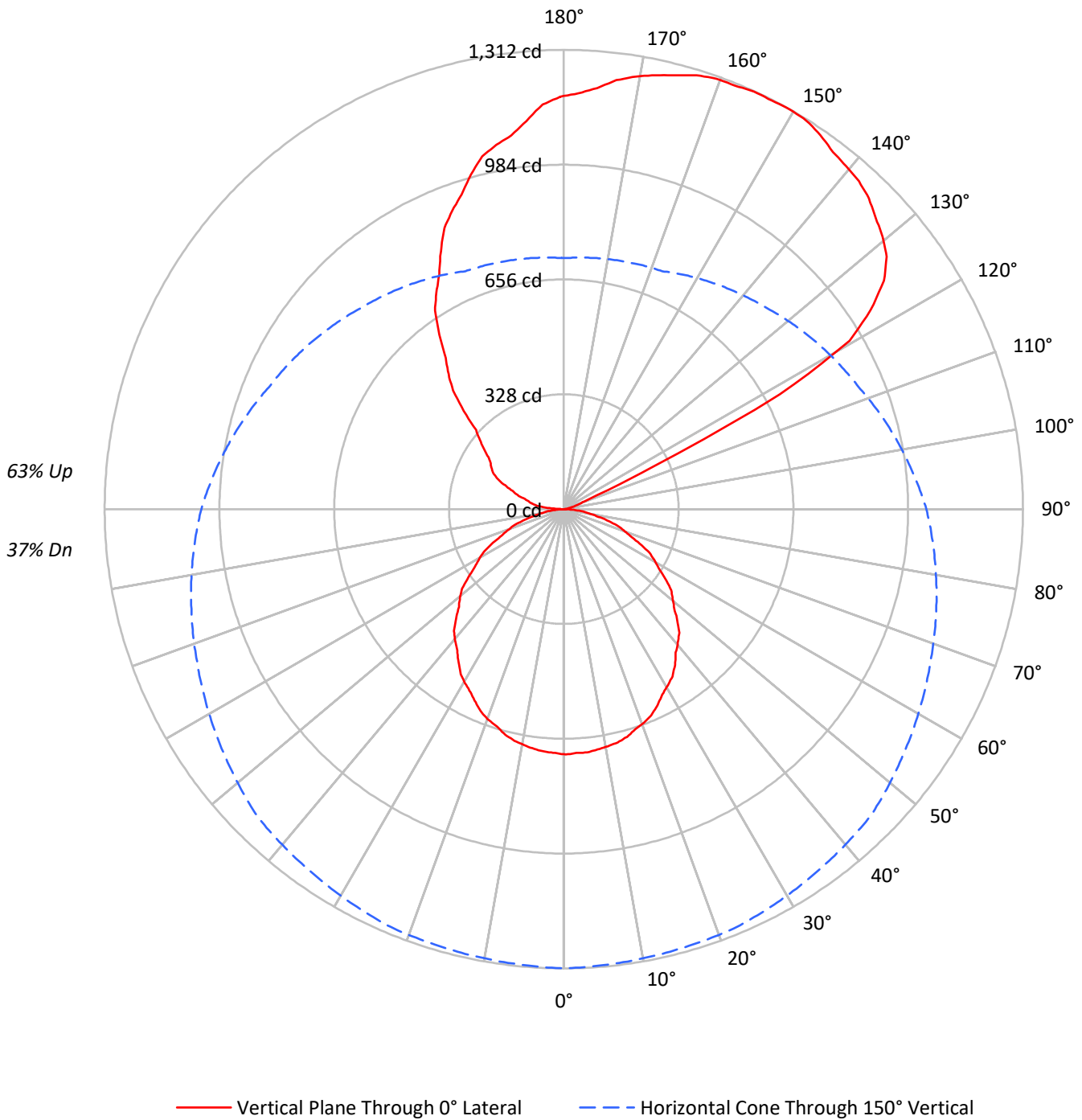
Input Watts (W): 47.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	44	44	44	37
1	95	91	87	83	86	82	79	76	67	64	62	52	51	49	39	38	37	31
2	86	79	73	68	78	72	67	62	58	55	51	46	43	41	34	33	31	26
3	79	69	62	56	71	63	57	52	51	47	43	40	37	35	30	28	26	22
4	72	61	53	47	65	56	49	44	45	40	37	36	32	30	27	25	23	19
5	66	54	46	40	59	50	43	37	41	35	31	32	28	25	24	22	20	16
6	60	49	41	35	55	44	37	32	36	31	27	29	25	22	22	19	17	14
7	56	44	36	30	50	40	33	28	33	28	24	26	22	20	20	17	15	12
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	16	14	11
9	48	36	29	24	44	33	27	22	27	22	19	22	18	15	17	14	12	10
10	45	33	26	21	41	30	24	20	25	20	17	20	17	14	16	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	11318	11318	11318
5°	11313	11426	11264
10°	11296	11411	11214
15°	11283	11350	11132
20°	11203	11289	10997
25°	11063	11170	10814
30°	10907	11056	10664
35°	10782	10920	10466
40°	10581	10770	10286
45°	10389	10618	10047
50°	10123	10424	9796
55°	9909	10190	9430
60°	9623	9978	9074
65°	9093	9551	8558
70°	8592	9111	7978
75°	7923	8359	7299
80°	6881	7345	6137
85°	5187	5743	4631



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.3	1.3
10°-20°	189.5	3.6
20°-30°	285.1	5.4
30°-40°	340.4	6.5
40°-50°	350.1	6.7
50°-60°	315.0	6.0
60°-70°	238.2	4.5
70°-80°	135.5	2.6
80°-90°	35.8	0.7
90°-100°	31.0	0.6
100°-110°	134.1	2.6
110°-120°	382.3	7.3
120°-130°	581.4	11.1
130°-140°	628.8	12.0
140°-150°	600.8	11.5
150°-160°	494.1	9.4
160°-170°	322.9	6.2
170°-180°	111.7	2.1
0°-30°	540.9	10.3
0°-40°	881.3	16.8
0°-60°	1546.4	29.5
0°-90°	1955.9	37.3
90°-120°	547.4	10.4
90°-150°	2358.3	45.0
90°-180°	3287.0	62.7
0°-180°	5242.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	701	701	701	701	701	
5°	698	698	705	698	695	66
15°	675	676	679	671	666	190
25°	621	627	627	618	607	286
35°	547	553	554	542	531	341
45°	455	461	465	450	440	350
55°	352	359	362	348	335	315
65°	238	245	250	235	224	237
75°	127	131	134	124	117	134
85°	28	32	31	28	25	33
90°	0	0	0	0	0	1
95°	5	7	21	50	47	6
105°	31	79	155	106	114	36
115°	282	750	387	184	208	388
125°	1124	989	619	304	261	988
135°	1244	1126	814	505	400	959
145°	1296	1213	970	718	612	812
155°	1311	1253	1083	899	816	606
165°	1280	1252	1160	1040	992	364
175°	1206	1209	1188	1145	1114	117
180°	1178	1178	1178	1178	1178	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0
2.5°	697.8	700.1	700.2	699.5	705.8	699.5	701.0	699.3	697.0
5°	698.0	698.0	698.0	697.2	705.0	696.2	698.0	695.0	695.0
7.5°	693.8	694.0	694.8	692.2	700.8	691.0	692.8	689.6	690.4
10°	689.0	690.0	690.0	688.2	696.0	686.2	688.0	684.0	684.0
12.5°	684.2	684.4	685.2	682.6	690.4	679.8	681.6	677.6	676.8
15°	675.0	675.0	676.0	672.2	679.0	669.2	671.0	666.0	666.0
17.5°	661.6	661.4	663.8	658.8	665.8	654.8	658.4	652.2	650.4
20°	652.0	651.0	655.0	649.2	657.0	645.3	648.0	641.0	640.0
22.5°	640.0	639.0	644.6	638.8	645.8	634.1	636.8	627.4	627.2
25°	621.0	620.0	627.0	621.1	627.0	616.2	618.0	608.0	607.0
27.5°	599.4	599.4	607.6	600.8	607.4	596.6	597.4	587.2	587.2
30°	585.0	585.0	594.0	587.1	593.0	582.2	583.0	572.0	572.0
32.5°	569.8	569.8	577.2	571.9	577.8	567.0	567.0	556.0	556.0
35°	547.0	545.0	553.0	548.1	554.0	543.2	542.0	531.0	531.0
37.5°	519.6	518.6	527.4	523.9	528.6	518.0	515.2	504.6	505.6
40°	502.0	501.0	509.0	507.1	511.0	501.2	496.0	487.0	488.0
42.5°	483.6	481.8	489.8	488.7	492.6	482.8	478.4	468.6	468.8
45°	455.0	455.0	461.0	461.1	465.0	454.2	450.0	440.0	440.0
47.5°	424.6	424.8	431.0	431.3	435.0	425.6	421.0	410.2	410.0
50°	403.0	404.0	411.0	412.1	415.0	407.2	401.0	391.0	390.0
52.5°	384.6	383.2	390.2	392.0	394.2	386.4	380.2	370.2	369.2
55°	352.0	353.0	359.0	362.0	362.0	355.2	348.0	337.9	335.0
57.5°	319.6	321.0	325.8	329.6	330.6	323.0	315.6	306.5	302.6
60°	298.0	297.0	305.0	308.0	309.0	302.2	294.0	284.9	281.0
62.5°	274.8	275.4	281.0	285.6	286.6	279.0	271.6	260.1	257.0
65°	238.0	240.9	245.0	248.0	250.0	244.1	235.0	226.0	224.0
67.5°	204.4	206.4	210.4	215.0	216.2	209.6	201.4	193.6	191.4
70°	182.0	184.0	188.0	191.0	193.0	187.1	179.0	171.9	169.0
72.5°	159.6	161.6	164.8	167.8	169.8	163.9	156.6	150.4	148.2
75°	127.0	129.0	131.0	133.0	134.0	130.1	124.0	118.0	117.0
77.5°	94.8	96.8	99.0	101.6	100.6	97.9	92.0	88.0	86.8
80°	74.0	76.0	79.0	80.0	79.0	77.0	72.0	68.0	66.0
82.5°	54.8	56.8	59.8	60.0	58.2	57.8	53.6	50.4	49.2
85°	28.0	30.0	32.0	33.0	31.0	31.0	28.0	25.0	25.0
87.5°	5.6	7.2	9.6	11.9	9.6	10.4	8.0	5.6	5.6
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	3.2	4.8	17.3	19.2	16.8	16.8
95°	5.0	5.0	7.0	22.0	21.0	35.7	50.0	47.0	47.0
97.5°	10.2	11.2	16.0	65.0	49.0	47.6	67.6	75.2	76.6
100°	15.0	16.0	24.0	106.2	73.0	62.2	74.0	88.1	91.0
102.5°	20.6	22.4	38.4	167.1	102.6	73.1	84.4	96.9	100.6
105°	31.0	33.9	79.0	280.2	155.0	95.4	106.0	111.1	114.0
107.5°	46.0	57.9	212.8	393.7	220.0	125.9	137.2	136.5	139.0
110°	62.0	86.4	368.0	455.7	268.0	149.7	150.0	157.9	155.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	102.8	171.8	548.8	515.5	316.0	178.1	162.0	179.6	180.6
115°	282.0	484.4	750.0	599.2	387.0	228.6	184.0	201.2	208.0
117.5°	699.2	842.7	853.0	673.5	457.8	284.9	209.2	216.8	225.8
120°	948.0	977.3	901.0	719.1	505.0	325.1	230.0	227.2	237.0
122.5°	1045.6	1035.0	940.2	761.6	551.4	367.6	255.6	240.0	246.6
125°	1124.0	1096.6	989.0	820.4	619.0	431.3	304.0	261.0	261.0
127.5°	1170.8	1138.9	1033.8	872.6	680.0	495.6	362.2	295.2	286.0
130°	1198.0	1163.8	1061.0	908.7	720.0	537.2	403.0	324.7	310.0
132.5°	1218.8	1187.7	1086.6	937.0	759.2	577.9	443.8	361.3	337.2
135°	1244.0	1217.6	1126.0	980.2	814.0	639.0	505.0	424.4	400.0
137.5°	1260.2	1239.7	1161.4	1015.8	864.8	699.6	566.8	485.9	463.8
140°	1269.0	1252.4	1179.0	1036.8	896.0	738.6	610.0	527.5	507.0
142.5°	1277.8	1264.3	1191.8	1060.2	926.4	777.6	652.4	569.9	547.8
145°	1296.0	1280.4	1213.0	1088.3	970.0	832.1	718.0	631.6	612.0
147.5°	1308.8	1290.0	1230.4	1118.6	1011.2	881.5	778.2	694.8	675.4
150°	1312.0	1292.4	1240.0	1134.8	1036.0	911.8	815.0	735.6	717.0
152.5°	1309.6	1294.7	1247.2	1148.5	1056.8	941.2	848.6	774.8	757.8
155°	1311.0	1297.3	1253.0	1167.1	1083.0	982.3	899.0	833.6	816.0
157.5°	1305.0	1296.0	1257.0	1181.3	1107.2	1019.0	945.2	890.2	872.4
160°	1305.0	1291.3	1257.0	1189.5	1124.0	1042.8	974.0	924.7	910.0
162.5°	1296.2	1284.1	1256.2	1195.3	1140.0	1065.1	1001.2	955.2	944.4
165°	1280.0	1270.2	1252.0	1203.0	1160.0	1095.5	1040.0	998.8	992.0
167.5°	1267.4	1253.9	1244.0	1202.7	1173.6	1117.3	1072.8	1038.7	1034.8
170°	1253.0	1244.2	1236.0	1200.5	1180.0	1133.1	1096.0	1061.9	1058.0
172.5°	1234.6	1229.7	1225.6	1199.1	1184.0	1146.5	1116.0	1085.0	1078.0
175°	1206.0	1209.9	1209.0	1195.8	1188.0	1163.6	1145.0	1122.8	1114.0
177.5°	1188.4	1186.8	1190.8	1188.4	1187.6	1172.7	1167.6	1152.5	1157.2
180°	1178.0	1178.0	1178.0	1178.0	1178.0	1178.0	1178.0	1178.0	1178.0

(END OF REPORT)