

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: P522380

Luminaire Tested: **SQW-F-075U-050D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522380
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 (4500K)
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 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

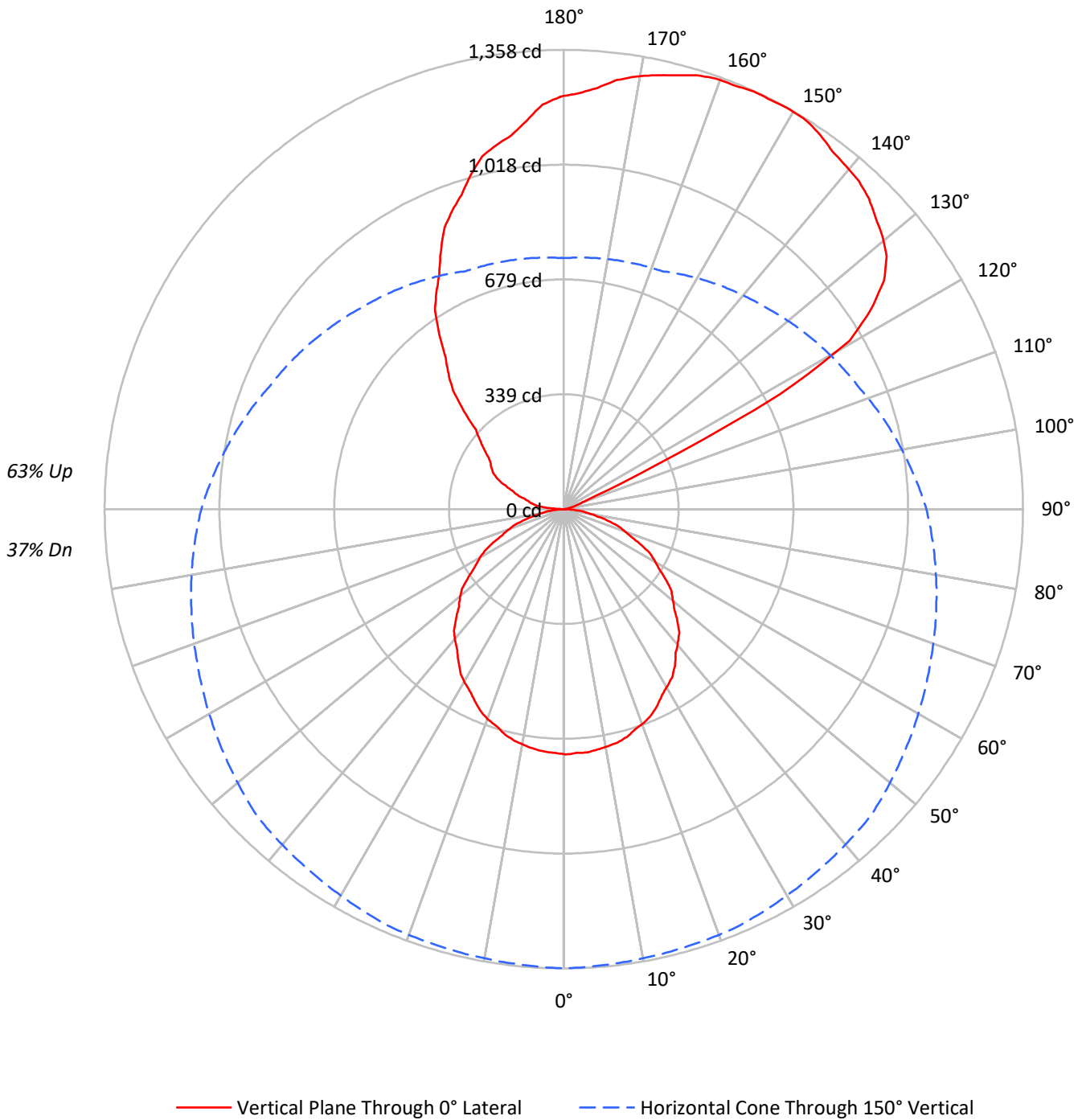
Lumens per Lamp: N/A
Luminaire Lumens: 5425.0 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

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°	11711	11711	11711
5°	11705	11823	11655
10°	11688	11808	11603
15°	11674	11744	11519
20°	11591	11680	11378
25°	11448	11558	11190
30°	11285	11440	11035
35°	11156	11298	10829
40°	10947	11143	10642
45°	10750	10985	10396
50°	10474	10786	10135
55°	10252	10545	9757
60°	9956	10324	9390
65°	9410	9883	8856
70°	8889	9427	8257
75°	8197	8652	7555
80°	7122	7596	6351
85°	5372	5947	4798



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.6	1.3
10°-20°	196.1	3.6
20°-30°	295.0	5.4
30°-40°	352.2	6.5
40°-50°	362.3	6.7
50°-60°	325.9	6.0
60°-70°	246.5	4.5
70°-80°	140.2	2.6
80°-90°	37.0	0.7
90°-100°	32.0	0.6
100°-110°	138.7	2.6
110°-120°	395.6	7.3
120°-130°	601.5	11.1
130°-140°	650.6	12.0
140°-150°	621.7	11.5
150°-160°	511.3	9.4
160°-170°	334.1	6.2
170°-180°	115.6	2.1
0°-30°	559.7	10.3
0°-40°	911.9	16.8
0°-60°	1600.1	29.5
0°-90°	2023.8	37.3
90°-120°	566.4	10.4
90°-150°	2440.2	45.0
90°-180°	3401.0	62.7
0°-180°	5425.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	725	725	725	725	725	
5°	722	722	730	722	719	69
15°	698	700	703	694	689	197
25°	643	649	649	640	628	296
35°	566	572	573	561	549	353
45°	471	477	481	466	455	363
55°	364	372	375	360	347	325
65°	246	254	259	243	232	245
75°	131	136	139	128	121	139
85°	29	33	32	29	26	34
90°	0	0	0	0	0	1
95°	5	7	22	52	49	7
105°	32	82	160	110	118	37
115°	292	776	400	190	215	401
125°	1163	1023	640	315	270	1022
135°	1287	1165	842	522	414	992
145°	1341	1255	1004	743	633	840
155°	1356	1296	1121	930	844	627
165°	1324	1296	1200	1076	1026	376
175°	1248	1251	1229	1185	1153	121
180°	1219	1219	1219	1219	1219	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	725.3	725.3	725.3	725.3	725.3	725.3	725.3	725.3	725.3
2.5°	722.0	724.5	724.5	723.8	730.3	723.8	725.3	723.6	721.2
5°	722.2	722.2	722.2	721.4	729.5	720.4	722.2	719.1	719.1
7.5°	717.9	718.1	718.9	716.2	725.1	715.0	716.9	713.6	714.4
10°	712.9	713.9	714.0	712.1	720.2	710.0	711.9	707.7	707.7
12.5°	708.0	708.2	709.0	706.3	714.4	703.4	705.3	701.1	700.3
15°	698.4	698.4	699.5	695.5	702.6	692.5	694.3	689.1	689.1
17.5°	684.6	684.4	686.8	681.6	688.9	677.6	681.3	674.8	673.0
20°	674.6	673.6	677.7	671.7	679.8	667.7	670.5	663.2	662.2
22.5°	662.2	661.2	667.0	660.9	668.2	656.1	658.9	649.2	649.0
25°	642.6	641.5	648.8	642.7	648.8	637.6	639.5	629.1	628.1
27.5°	620.2	620.2	628.7	621.6	628.5	617.4	618.1	607.6	607.6
30°	605.3	605.3	614.6	607.5	613.6	602.5	603.2	591.9	591.9
32.5°	589.6	589.6	597.2	591.8	597.9	586.7	586.7	575.3	575.3
35°	566.0	564.0	572.2	567.2	573.2	562.1	560.8	549.4	549.4
37.5°	537.6	536.6	545.7	542.1	547.0	536.0	533.1	522.1	523.2
40°	519.4	518.4	526.7	524.7	528.7	518.6	513.2	503.9	504.9
42.5°	500.4	498.6	506.8	505.7	509.7	499.6	495.0	484.9	485.1
45°	470.8	470.8	477.0	477.1	481.1	470.0	465.6	455.3	455.3
47.5°	439.3	439.5	446.0	446.3	450.1	440.4	435.6	424.4	424.2
50°	417.0	418.0	425.3	426.4	429.4	421.3	414.9	404.6	403.5
52.5°	398.0	396.5	403.7	405.7	407.9	399.8	393.4	383.0	382.0
55°	364.2	365.2	371.5	374.6	374.6	367.5	360.1	349.7	346.6
57.5°	330.7	332.1	337.1	341.1	342.1	334.2	326.6	317.2	313.1
60°	308.3	307.3	315.6	318.7	319.7	312.6	304.2	294.8	290.8
62.5°	284.3	284.9	290.8	295.5	296.6	288.7	281.0	269.2	265.9
65°	246.3	249.3	253.5	256.7	258.7	252.6	243.2	233.8	231.8
67.5°	211.5	213.5	217.7	222.5	223.7	216.8	208.4	200.3	198.0
70°	188.3	190.3	194.5	197.7	199.7	193.6	185.2	177.9	174.9
72.5°	165.1	167.2	170.5	173.7	175.7	169.6	162.0	155.6	153.3
75°	131.4	133.4	135.5	137.6	138.7	134.6	128.3	122.1	121.1
77.5°	98.1	100.1	102.4	105.1	104.1	101.3	95.2	91.0	89.8
80°	76.6	78.6	81.7	82.8	81.7	79.7	74.5	70.3	68.3
82.5°	56.7	58.7	61.9	62.0	60.2	59.8	55.5	52.1	50.9
85°	29.0	31.0	33.1	34.1	32.1	32.1	29.0	25.9	25.9
87.5°	5.8	7.4	9.9	12.4	9.9	10.7	8.3	5.8	5.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.7	1.7	1.7	3.3	5.0	17.9	19.9	17.4	17.4
95°	5.2	5.2	7.2	22.7	21.7	36.9	51.7	48.6	48.6
97.5°	10.6	11.6	16.6	67.3	50.7	49.3	69.9	77.8	79.3
100°	15.5	16.5	24.8	109.9	75.5	64.4	76.6	91.1	94.2
102.5°	21.3	23.1	39.7	172.9	106.2	75.6	87.3	100.2	104.1
105°	32.1	35.1	81.7	289.9	160.4	98.7	109.7	114.9	118.0
107.5°	47.6	59.9	220.2	407.3	227.6	130.3	142.0	141.2	143.8
110°	64.2	89.4	380.8	471.6	277.3	154.9	155.2	163.4	160.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	106.4	177.8	567.9	533.4	327.0	184.3	167.6	185.9	186.9
115°	291.8	501.2	776.0	620.0	400.4	236.5	190.4	208.1	215.2
117.5°	723.5	872.0	882.6	696.9	473.7	294.8	216.5	224.3	233.6
120°	980.9	1011.3	932.3	744.1	522.5	336.4	238.0	235.1	245.2
122.5°	1081.9	1071.0	972.8	788.1	570.5	380.3	264.5	248.3	255.2
125°	1163.0	1134.7	1023.3	848.9	640.5	446.2	314.6	270.1	270.1
127.5°	1211.5	1178.5	1069.7	902.9	703.6	512.8	374.8	305.4	295.9
130°	1239.6	1204.2	1097.8	940.3	745.0	555.8	417.0	335.9	320.8
132.5°	1261.1	1228.9	1124.3	969.5	785.6	598.0	459.2	373.8	348.9
135°	1287.2	1259.9	1165.1	1014.3	842.3	661.2	522.5	439.2	413.9
137.5°	1304.0	1282.7	1201.7	1051.0	894.8	723.8	586.5	502.8	479.9
140°	1313.1	1295.9	1219.9	1072.8	927.1	764.2	631.2	545.8	524.6
142.5°	1322.2	1308.2	1233.2	1097.0	958.6	804.6	675.1	589.7	566.8
145°	1341.0	1324.8	1255.1	1126.1	1003.7	861.0	742.9	653.5	633.2
147.5°	1354.2	1334.8	1273.1	1157.4	1046.3	912.2	805.2	718.9	698.8
150°	1357.6	1337.3	1283.1	1174.2	1072.0	943.5	843.3	761.1	741.9
152.5°	1355.1	1339.7	1290.5	1188.4	1093.5	973.9	878.1	801.7	784.1
155°	1356.5	1342.4	1296.5	1207.6	1120.6	1016.4	930.2	862.5	844.3
157.5°	1350.3	1341.0	1300.6	1222.3	1145.6	1054.4	978.0	921.1	902.7
160°	1350.3	1336.1	1300.6	1230.8	1163.0	1079.1	1007.8	956.8	941.6
162.5°	1341.2	1328.7	1299.8	1236.8	1179.6	1102.1	1036.0	988.3	977.2
165°	1324.4	1314.3	1295.5	1244.8	1200.3	1133.5	1076.1	1033.5	1026.4
167.5°	1311.4	1297.4	1287.2	1244.5	1214.3	1156.1	1110.0	1074.8	1070.7
170°	1296.5	1287.4	1278.9	1242.2	1221.0	1172.4	1134.1	1098.8	1094.7
172.5°	1277.5	1272.4	1268.2	1240.7	1225.1	1186.3	1154.7	1122.7	1115.4
175°	1247.9	1251.9	1251.0	1237.3	1229.2	1204.0	1184.8	1161.8	1152.7
177.5°	1229.7	1228.0	1232.1	1229.6	1228.8	1213.5	1208.1	1192.5	1197.4
180°	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9

(END OF REPORT)