

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: P522375

Luminaire Tested: **SQW-F-075U-025D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522375
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-025D-92765-1D-UNV-STD-W-4 (6500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

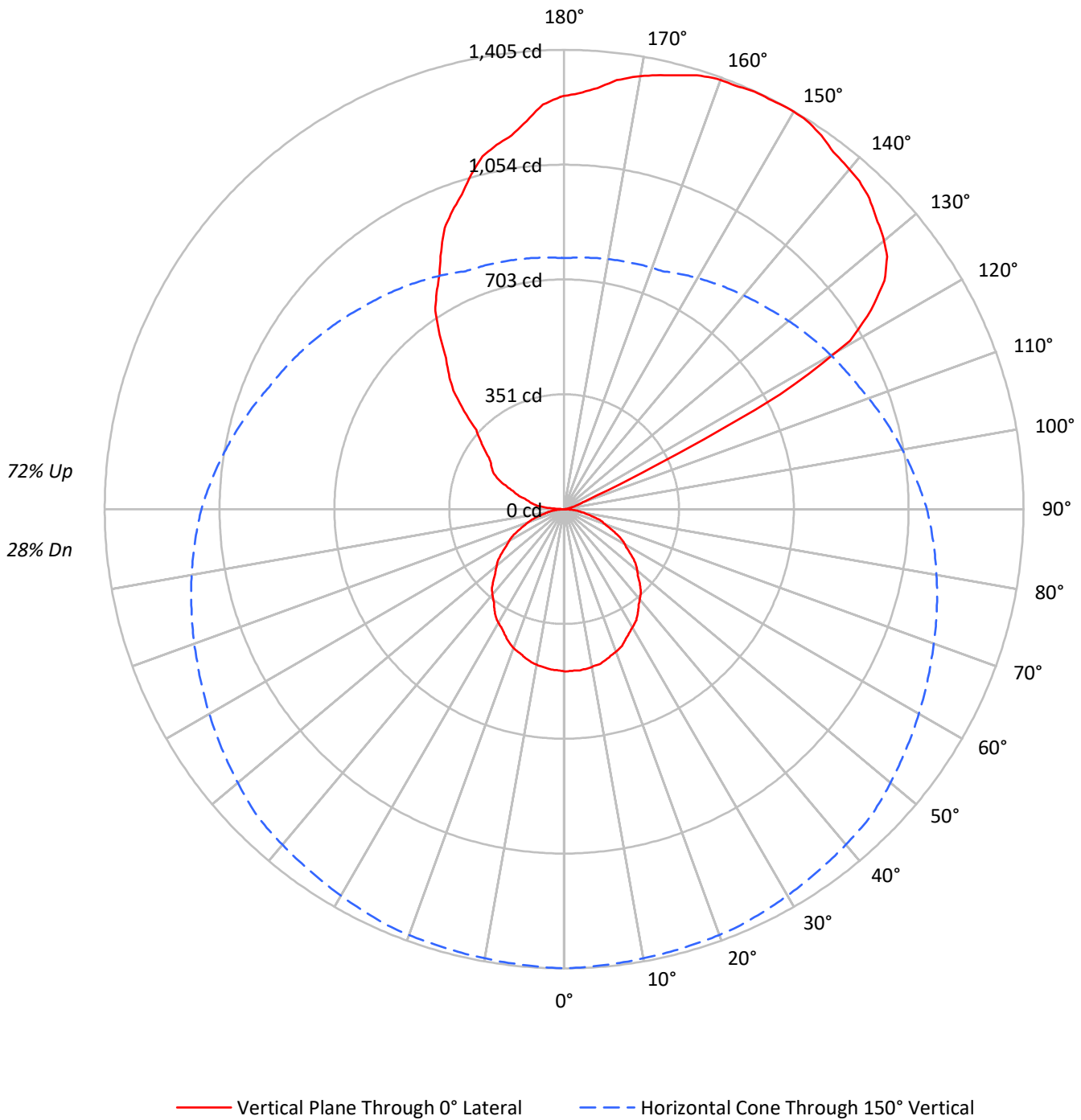
Lumens per Lamp: N/A
Luminaire Lumens: 4907.1 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 39.7
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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	93	89	85	81	83	79	76	73	62	60	58	46	45	44	32	31	30	24
2	84	77	71	66	75	69	64	60	54	51	48	41	38	36	28	27	25	20
3	77	68	61	55	69	61	55	50	48	44	40	36	33	31	25	23	22	17
4	70	60	52	46	63	54	47	42	42	38	34	32	29	26	22	20	18	14
5	64	53	45	39	57	48	41	36	38	33	29	28	25	23	20	18	16	12
6	59	47	40	34	53	43	36	31	34	29	25	26	22	20	18	16	14	11
7	55	43	35	30	49	38	32	27	31	26	22	23	20	17	16	14	12	9
8	50	39	31	26	45	35	28	24	28	23	19	21	18	15	15	13	11	8
9	47	35	28	23	42	32	25	21	25	21	17	19	16	14	14	11	10	8
10	44	32	25	20	39	29	23	19	23	19	15	18	14	12	13	10	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	8024	8024	8024
5°	8037	8107	7985
10°	8025	8096	7938
15°	8003	8057	7878
20°	7950	8005	7804
25°	7824	7919	7652
30°	7748	7828	7528
35°	7663	7748	7411
40°	7541	7630	7246
45°	7412	7508	7069
50°	7264	7372	6835
55°	7026	7206	6632
60°	6814	7020	6365
65°	6464	6835	6055
70°	6118	6524	5665
75°	5677	6014	5078
80°	5077	5281	4482
85°	3779	3964	2983



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.0	1.0
10°-20°	134.5	2.7
20°-30°	202.1	4.1
30°-40°	241.7	4.9
40°-50°	248.5	5.1
50°-60°	222.0	4.5
60°-70°	168.6	3.4
70°-80°	96.3	2.0
80°-90°	25.5	0.5
90°-100°	33.2	0.7
100°-110°	143.6	2.9
110°-120°	409.5	8.3
120°-130°	622.7	12.7
130°-140°	673.5	13.7
140°-150°	643.5	13.1
150°-160°	529.3	10.8
160°-170°	345.8	7.0
170°-180°	119.6	2.4
0°-30°	383.6	7.8
0°-40°	625.3	12.7
0°-60°	1095.8	22.3
0°-90°	1386.2	28.2
90°-120°	586.3	11.9
90°-150°	2526.1	51.5
90°-180°	3521.0	71.8
0°-180°	4907.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	497	497	497	497	497	
5°	496	496	500	495	493	47
15°	479	480	482	476	471	135
25°	439	444	444	437	430	203
35°	389	394	393	384	376	243
45°	325	329	329	319	310	250
55°	250	254	256	243	236	223
65°	169	175	179	166	158	168
75°	91	94	96	87	81	97
85°	20	24	21	19	16	25
90°	0	0	0	0	0	1
95°	5	8	22	54	50	7
105°	33	85	166	114	122	38
115°	302	803	414	197	223	415
125°	1204	1059	663	326	280	1058
135°	1332	1206	872	541	428	1027
145°	1388	1299	1039	769	656	870
155°	1404	1342	1160	963	874	649
165°	1371	1341	1242	1114	1063	390
175°	1292	1295	1272	1226	1193	125
180°	1262	1262	1262	1262	1262	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	497.0	497.0	497.0	497.0	497.0	497.0	497.0	497.0	497.0
2.5°	495.3	496.1	497.0	497.1	501.3	496.3	496.1	495.3	493.6
5°	495.9	495.9	495.9	495.0	500.2	493.9	494.9	492.7	492.7
7.5°	492.9	492.1	492.3	491.1	496.4	489.9	489.9	488.6	488.4
10°	489.5	489.5	490.6	488.6	493.8	486.5	487.4	485.2	484.2
12.5°	486.1	485.2	486.3	484.3	489.5	482.2	482.2	479.2	479.0
15°	478.8	478.8	479.9	477.8	482.0	475.7	475.6	472.3	471.3
17.5°	469.6	469.4	471.7	468.6	472.8	465.5	465.5	462.7	461.0
20°	462.7	461.7	464.9	461.8	465.9	458.6	459.5	454.2	454.2
22.5°	454.2	453.1	457.2	453.2	457.4	450.0	450.9	444.7	443.9
25°	439.2	440.2	444.5	441.4	444.5	437.2	437.0	430.6	429.5
27.5°	426.7	425.9	431.5	427.0	430.2	422.8	422.9	415.1	414.1
30°	415.6	415.6	422.0	416.7	419.9	412.6	413.5	404.9	403.8
32.5°	405.3	405.3	410.9	407.3	409.6	402.3	401.5	393.7	392.7
35°	388.8	388.8	394.2	391.0	393.1	385.8	384.5	376.0	376.0
37.5°	370.6	369.8	374.9	372.8	374.9	367.8	365.3	357.7	356.7
40°	357.8	357.8	362.0	359.9	362.0	355.8	352.4	344.9	343.8
42.5°	344.0	344.0	349.2	347.1	349.2	342.1	338.7	331.2	330.1
45°	324.6	324.6	328.8	327.8	328.8	322.6	319.2	310.6	309.6
47.5°	303.8	302.9	307.0	307.2	308.9	302.0	297.6	289.4	288.3
50°	289.2	289.2	292.4	293.5	293.5	288.3	283.9	273.1	272.1
52.5°	272.1	272.9	276.1	277.2	278.1	271.2	266.7	258.5	257.5
55°	249.6	248.5	253.9	255.0	256.0	249.7	243.1	236.7	235.6
57.5°	226.4	226.2	230.7	232.0	232.9	227.6	221.1	213.8	212.5
60°	211.0	210.0	215.3	217.4	217.4	212.2	205.7	199.2	197.1
62.5°	193.0	195.3	199.0	201.2	202.9	196.8	189.4	183.8	181.7
65°	169.2	170.3	174.6	176.8	178.9	172.6	166.0	160.6	158.5
67.5°	145.0	146.9	150.2	152.4	154.5	148.4	141.8	137.3	135.4
70°	129.6	130.7	133.9	136.1	138.2	132.9	126.4	121.0	120.0
72.5°	114.2	115.2	118.5	119.8	121.0	115.8	110.1	106.4	104.5
75°	91.0	92.1	94.3	95.4	96.4	91.2	86.8	83.5	81.4
77.5°	69.2	69.2	71.3	72.2	72.2	69.1	64.9	61.9	60.2
80°	54.6	54.6	56.8	56.8	56.8	53.6	50.3	48.2	48.2
82.5°	40.1	40.9	43.1	43.0	42.2	39.9	37.5	35.3	35.3
85°	20.4	21.4	23.6	23.5	21.4	21.4	19.3	18.2	16.1
87.5°	5.1	6.0	7.7	8.5	6.9	6.9	5.1	3.4	3.4
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	3.5	5.1	18.5	20.6	18.0	18.0
95°	5.4	5.4	7.5	23.5	22.5	38.2	53.6	50.3	50.3
97.5°	10.9	12.0	17.1	69.7	52.5	51.0	72.4	80.6	82.0
100°	16.1	17.1	25.7	113.8	78.2	66.7	79.3	94.3	97.5
102.5°	22.1	24.0	41.1	179.0	109.9	78.3	90.4	103.8	107.8
105°	33.2	36.3	84.6	300.1	166.0	102.1	113.5	119.0	122.1
107.5°	49.3	62.0	227.9	421.7	235.6	134.9	147.0	146.2	148.9
110°	66.4	92.6	394.2	488.2	287.1	160.3	160.7	169.2	166.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	110.1	184.1	587.8	552.1	338.5	190.8	173.5	192.4	193.4
115°	302.1	518.9	803.3	641.8	414.5	244.9	197.1	215.5	222.8
117.5°	748.9	902.7	913.7	721.4	490.4	305.2	224.1	232.2	241.9
120°	1015.4	1046.9	965.1	770.3	540.9	348.2	246.4	243.4	253.9
122.5°	1120.0	1108.7	1007.1	815.8	590.6	393.7	273.8	257.0	264.1
125°	1204.0	1174.6	1059.3	878.8	663.0	461.9	325.6	279.6	279.6
127.5°	1254.1	1219.9	1107.3	934.7	728.4	530.8	388.0	316.2	306.3
130°	1283.2	1246.6	1136.5	973.3	771.2	575.4	431.7	347.8	332.1
132.5°	1305.5	1272.2	1163.9	1003.6	813.2	619.0	475.4	386.9	361.2
135°	1332.5	1304.2	1206.1	1049.9	871.9	684.4	540.9	454.6	428.5
137.5°	1349.8	1327.8	1244.0	1088.0	926.3	749.3	607.1	520.5	496.8
140°	1359.3	1341.5	1262.9	1110.5	959.7	791.1	653.4	565.1	543.1
142.5°	1368.7	1354.2	1276.6	1135.6	992.3	832.9	698.8	610.4	586.8
145°	1388.2	1371.4	1299.3	1165.7	1039.0	891.3	769.1	676.5	655.5
147.5°	1401.9	1381.8	1317.9	1198.1	1083.1	944.3	833.6	744.2	723.4
150°	1405.3	1384.4	1328.2	1215.5	1109.7	976.7	873.0	787.9	768.0
152.5°	1402.8	1386.8	1335.9	1230.2	1132.0	1008.2	909.0	829.9	811.7
155°	1404.3	1389.6	1342.1	1250.1	1160.0	1052.2	962.9	892.9	874.0
157.5°	1397.8	1388.2	1346.4	1265.3	1186.0	1091.5	1012.4	953.5	934.5
160°	1397.8	1383.2	1346.4	1274.1	1204.0	1117.0	1043.3	990.4	974.7
162.5°	1388.4	1375.4	1345.6	1280.4	1221.1	1140.9	1072.4	1023.1	1011.6
165°	1371.0	1360.6	1341.1	1288.6	1242.5	1173.4	1114.0	1069.9	1062.6
167.5°	1357.6	1343.1	1332.5	1288.3	1257.1	1196.8	1149.1	1112.6	1108.4
170°	1342.1	1332.7	1323.9	1285.9	1263.9	1213.7	1174.0	1137.4	1133.3
172.5°	1322.4	1317.2	1312.8	1284.3	1268.2	1228.0	1195.4	1162.2	1154.7
175°	1291.8	1296.0	1295.0	1280.9	1272.5	1246.3	1226.4	1202.7	1193.2
177.5°	1272.9	1271.3	1275.5	1272.9	1272.1	1256.2	1250.7	1234.5	1239.5
180°	1261.8	1261.8	1261.8	1261.8	1261.8	1261.8	1261.8	1261.8	1261.8

(END OF REPORT)