

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: P522383

Luminaire Tested: **SQW-F-075U-050D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522383
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 (6500K)
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 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

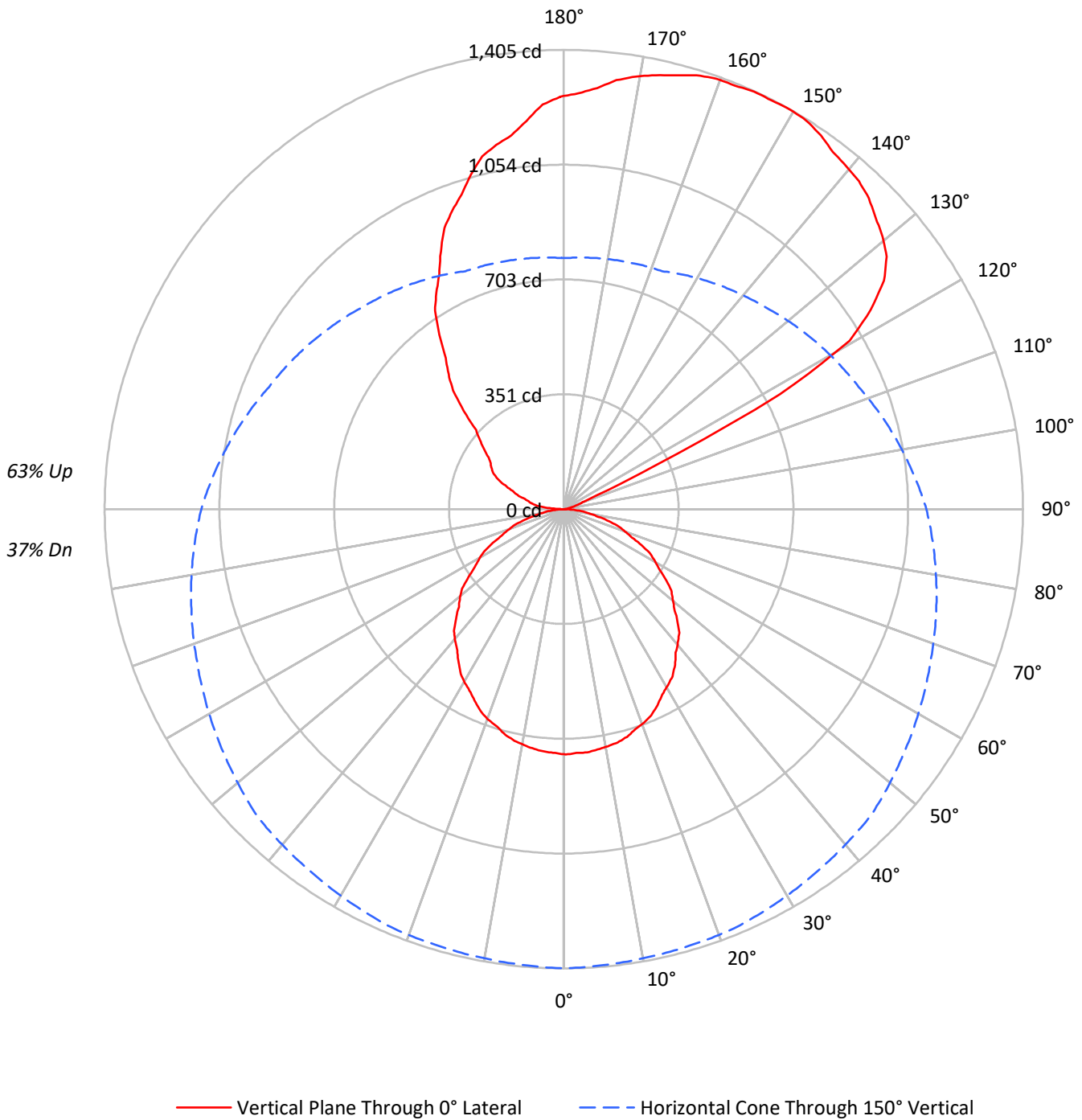
Lumens per Lamp: N/A
Luminaire Lumens: 5615.9 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 46.7
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	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°	12124	12124	12124
5°	12118	12238	12065
10°	12099	12222	12013
15°	12085	12157	11925
20°	12000	12091	11778
25°	11851	11965	11583
30°	11682	11842	11423
35°	11548	11696	11211
40°	11333	11535	11017
45°	11129	11373	10762
50°	10844	11165	10492
55°	10612	10914	10100
60°	10308	10689	9720
65°	9738	10231	9165
70°	9201	9758	8545
75°	8484	8952	7817
80°	7373	7866	6574
85°	5558	6150	4965



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.0	1.3
10°-20°	203.0	3.6
20°-30°	305.4	5.4
30°-40°	364.6	6.5
40°-50°	375.0	6.7
50°-60°	337.4	6.0
60°-70°	255.2	4.5
70°-80°	145.1	2.6
80°-90°	38.4	0.7
90°-100°	33.2	0.6
100°-110°	143.6	2.6
110°-120°	409.5	7.3
120°-130°	622.7	11.1
130°-140°	673.5	12.0
140°-150°	643.5	11.5
150°-160°	529.3	9.4
160°-170°	345.8	6.2
170°-180°	119.6	2.1
0°-30°	579.4	10.3
0°-40°	944.0	16.8
0°-60°	1656.4	29.5
0°-90°	2095.0	37.3
90°-120°	586.3	10.4
90°-150°	2526.1	45.0
90°-180°	3521.0	62.7
0°-180°	5615.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	751	751	751	751	751	
5°	748	748	755	748	744	71
15°	723	724	727	719	713	204
25°	665	672	672	662	650	306
35°	586	592	593	581	569	366
45°	487	494	498	482	471	375
55°	377	384	388	373	359	337
65°	255	262	268	252	240	254
75°	136	140	144	133	125	144
85°	30	34	33	30	27	36
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°	750.9	750.9	750.9	750.9	750.9	750.9	750.9	750.9	750.9
2.5°	747.4	749.9	750.0	749.3	756.0	749.3	750.9	749.1	746.6
5°	747.7	747.7	747.7	746.8	755.1	745.7	747.7	744.4	744.4
7.5°	743.2	743.4	744.2	741.4	750.6	740.2	742.1	738.7	739.5
10°	738.0	739.1	739.1	737.1	745.5	735.0	736.9	732.7	732.7
12.5°	732.9	733.1	733.9	731.1	739.5	728.2	730.1	725.8	724.9
15°	723.0	723.0	724.1	720.0	727.3	716.8	718.7	713.4	713.4
17.5°	708.7	708.5	711.0	705.6	713.2	701.4	705.2	698.5	696.7
20°	698.4	697.3	701.6	695.4	703.7	691.2	694.1	686.6	685.5
22.5°	685.5	684.5	690.5	684.2	691.7	679.2	682.1	672.0	671.8
25°	665.2	664.1	671.6	665.3	671.6	660.1	662.0	651.2	650.2
27.5°	642.0	642.0	650.8	643.5	650.6	639.1	639.9	629.0	629.0
30°	626.6	626.6	636.3	628.9	635.2	623.7	624.5	612.7	612.7
32.5°	610.3	610.3	618.3	612.6	618.9	607.4	607.3	595.5	595.5
35°	585.9	583.8	592.3	587.1	593.4	581.9	580.6	568.8	568.8
37.5°	556.6	555.5	564.9	561.2	566.2	554.9	551.8	540.5	541.6
40°	537.7	536.7	545.2	543.2	547.3	536.9	531.3	521.7	522.7
42.5°	518.0	516.1	524.6	523.5	527.6	517.2	512.4	501.9	502.1
45°	487.4	487.4	493.8	493.9	498.1	486.6	482.0	471.3	471.3
47.5°	454.8	455.0	461.7	462.0	465.9	455.9	450.9	439.4	439.2
50°	431.7	432.7	440.2	441.4	444.5	436.1	429.5	418.8	417.7
52.5°	412.0	410.5	418.0	419.9	422.2	413.9	407.2	396.5	395.5
55°	377.0	378.1	384.5	387.7	387.7	380.4	372.8	362.0	358.8
57.5°	342.3	343.8	349.0	353.1	354.1	345.9	338.0	328.3	324.1
60°	319.2	318.2	326.7	329.9	331.0	323.6	314.9	305.2	301.0
62.5°	294.3	295.0	301.0	305.9	307.0	298.8	290.9	278.6	275.3
65°	254.9	258.1	262.4	265.7	267.8	261.5	251.7	242.0	239.9
67.5°	218.9	221.0	225.4	230.3	231.6	224.5	215.7	207.3	205.0
70°	194.9	197.0	201.4	204.6	206.7	200.4	191.7	184.2	181.0
72.5°	171.0	173.0	176.5	179.8	181.9	175.6	167.7	161.0	158.7
75°	136.0	138.1	140.3	142.5	143.5	139.3	132.8	126.4	125.3
77.5°	101.5	103.6	106.0	108.8	107.8	104.8	98.5	94.2	93.0
80°	79.3	81.4	84.6	85.7	84.6	82.5	77.1	72.8	70.7
82.5°	58.7	60.8	64.1	64.2	62.3	61.9	57.4	54.0	52.7
85°	30.0	32.1	34.3	35.3	33.2	33.2	30.0	26.8	26.8
87.5°	6.0	7.7	10.3	12.8	10.3	11.1	8.6	6.0	6.0
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)