

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: P522381

Luminaire Tested: **SQW-F-075U-050D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522381
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 (5000K)
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 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

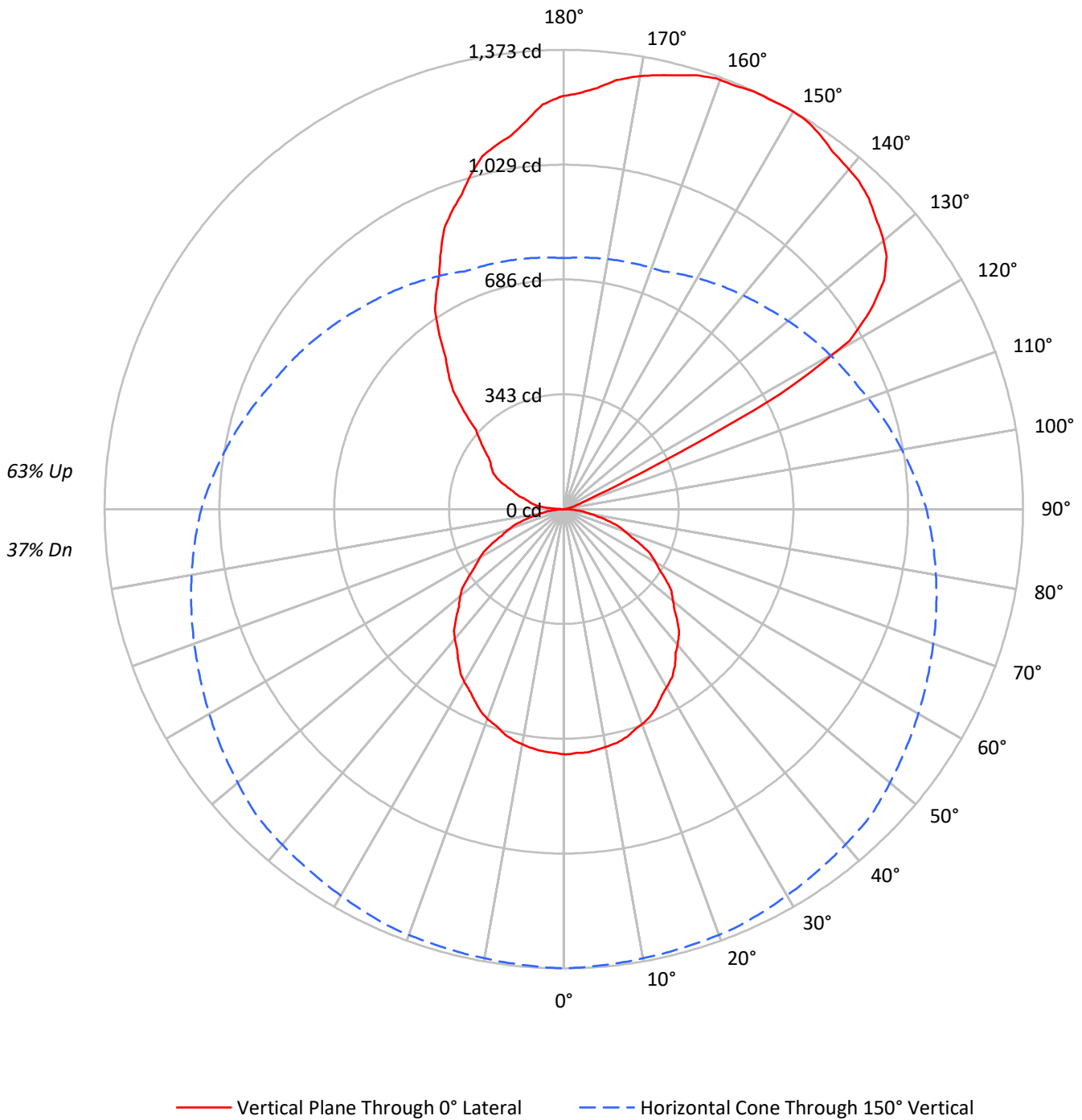
Lumens per Lamp: N/A
Luminaire Lumens: 5485.0 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 46.9
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°	11841	11841	11841
5°	11835	11953	11784
10°	11817	11937	11732
15°	11804	11873	11646
20°	11720	11809	11503
25°	11574	11685	11313
30°	11410	11566	11156
35°	11280	11424	10949
40°	11070	11268	10760
45°	10869	11109	10510
50°	10590	10906	10248
55°	10367	10660	9866
60°	10069	10440	9494
65°	9513	9990	8951
70°	8988	9531	8346
75°	8291	8746	7636
80°	7197	7680	6416
85°	5428	6002	4854



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.4	1.3
10°-20°	198.3	3.6
20°-30°	298.2	5.4
30°-40°	356.1	6.5
40°-50°	366.3	6.7
50°-60°	329.6	6.0
60°-70°	249.2	4.5
70°-80°	141.7	2.6
80°-90°	37.5	0.7
90°-100°	32.4	0.6
100°-110°	140.3	2.6
110°-120°	400.0	7.3
120°-130°	608.2	11.1
130°-140°	657.8	12.0
140°-150°	628.5	11.5
150°-160°	517.0	9.4
160°-170°	337.8	6.2
170°-180°	116.8	2.1
0°-30°	565.9	10.3
0°-40°	922.0	16.8
0°-60°	1617.8	29.5
0°-90°	2046.2	37.3
90°-120°	572.7	10.4
90°-150°	2467.2	45.0
90°-180°	3439.0	62.7
0°-180°	5485.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	733	733	733	733	733	
5°	730	730	738	730	727	69
15°	706	707	710	702	697	199
25°	650	656	656	646	635	299
35°	572	578	580	567	556	357
45°	476	482	486	471	460	367
55°	368	376	379	364	350	329
65°	249	256	262	246	234	248
75°	133	137	140	130	122	140
85°	29	34	32	29	26	35
90°	0	0	0	0	0	1
95°	5	7	22	52	49	7
105°	32	83	162	111	119	37
115°	295	785	405	192	218	406
125°	1176	1035	648	318	273	1033
135°	1301	1178	852	528	418	1003
145°	1356	1269	1015	751	640	849
155°	1372	1311	1133	940	854	634
165°	1339	1310	1214	1088	1038	381
175°	1262	1265	1243	1198	1165	122
180°	1232	1232	1232	1232	1232	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	733.4	733.4	733.4	733.4	733.4	733.4	733.4	733.4	733.4
2.5°	730.0	732.5	732.5	731.8	738.4	731.8	733.4	731.6	729.2
5°	730.2	730.2	730.2	729.4	737.5	728.3	730.2	727.1	727.1
7.5°	725.8	726.0	726.9	724.2	733.2	722.9	724.8	721.5	722.3
10°	720.8	721.8	721.9	720.0	728.1	717.9	719.8	715.6	715.6
12.5°	715.8	716.0	716.8	714.1	722.3	711.2	713.1	708.9	708.0
15°	706.2	706.2	707.2	703.2	710.3	700.1	702.0	696.7	696.7
17.5°	692.1	691.9	694.4	689.2	696.5	685.1	688.8	682.3	680.4
20°	682.1	681.1	685.2	679.1	687.3	675.1	677.9	670.6	669.5
22.5°	669.5	668.5	674.4	668.3	675.6	663.3	666.2	656.4	656.2
25°	649.7	648.6	655.9	649.8	655.9	644.7	646.5	636.0	635.0
27.5°	627.1	627.1	635.7	628.5	635.4	624.2	625.0	614.3	614.3
30°	612.0	612.0	621.4	614.2	620.4	609.1	609.9	598.4	598.4
32.5°	596.1	596.1	603.8	598.3	604.5	593.2	593.2	581.7	581.7
35°	572.3	570.2	578.5	573.4	579.6	568.3	567.0	555.5	555.5
37.5°	543.6	542.6	551.7	548.1	553.0	542.0	539.0	527.9	528.9
40°	525.2	524.2	532.5	530.5	534.6	524.4	518.9	509.5	510.5
42.5°	505.9	504.1	512.4	511.3	515.3	505.1	500.5	490.2	490.4
45°	476.0	476.0	482.3	482.4	486.5	475.2	470.8	460.3	460.3
47.5°	444.2	444.4	450.9	451.2	455.1	445.3	440.4	429.1	428.9
50°	421.6	422.6	430.0	431.1	434.2	426.0	419.5	409.0	408.0
52.5°	402.4	400.9	408.2	410.1	412.4	404.2	397.8	387.3	386.2
55°	368.3	369.3	375.6	378.7	378.7	371.6	364.1	353.5	350.5
57.5°	334.4	335.8	340.8	344.8	345.9	337.9	330.2	320.7	316.6
60°	311.8	310.7	319.1	322.2	323.3	316.1	307.6	298.1	294.0
62.5°	287.5	288.1	294.0	298.8	299.8	291.9	284.1	272.1	268.9
65°	249.0	252.1	256.3	259.5	261.5	255.4	245.8	236.4	234.3
67.5°	213.8	215.9	220.1	225.0	226.2	219.2	210.7	202.5	200.2
70°	190.4	192.4	196.7	199.9	201.9	195.8	187.3	179.9	176.8
72.5°	167.0	169.0	172.4	175.6	177.6	171.5	163.8	157.3	155.0
75°	132.9	134.9	137.0	139.2	140.2	136.1	129.7	123.4	122.4
77.5°	99.2	101.2	103.6	106.3	105.2	102.4	96.2	92.0	90.8
80°	77.4	79.5	82.6	83.7	82.6	80.6	75.3	71.1	69.0
82.5°	57.3	59.4	62.6	62.7	60.9	60.5	56.1	52.7	51.5
85°	29.3	31.3	33.5	34.5	32.4	32.4	29.3	26.2	26.2
87.5°	5.9	7.5	10.0	12.5	10.0	10.9	8.4	5.9	5.9
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	3.4	5.0	18.1	20.1	17.6	17.6
95°	5.2	5.2	7.3	23.0	22.0	37.3	52.3	49.2	49.2
97.5°	10.7	11.7	16.7	68.0	51.3	49.8	70.7	78.7	80.1
100°	15.7	16.7	25.1	111.1	76.4	65.1	77.4	92.1	95.2
102.5°	21.6	23.4	40.2	174.8	107.3	76.4	88.3	101.4	105.2
105°	32.4	35.5	82.6	293.1	162.2	99.8	110.9	116.2	119.3
107.5°	48.1	60.6	222.6	411.8	230.2	131.8	143.5	142.8	145.4
110°	64.9	90.4	385.0	476.8	280.4	156.6	156.9	165.2	162.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	107.5	179.8	574.1	539.3	330.6	186.4	169.5	187.9	188.9
115°	295.0	506.8	784.6	626.8	404.9	239.2	192.5	210.4	217.6
117.5°	731.5	881.6	892.4	704.6	478.9	298.1	218.9	226.8	236.2
120°	991.8	1022.5	942.6	752.3	528.3	340.1	240.6	237.7	247.9
122.5°	1093.9	1082.8	983.6	796.8	576.9	384.5	267.4	251.0	258.0
125°	1175.9	1147.3	1034.7	858.3	647.6	451.2	318.0	273.1	273.1
127.5°	1224.9	1191.5	1081.5	912.9	711.4	518.5	378.9	308.8	299.2
130°	1253.3	1217.5	1110.0	950.7	753.2	562.0	421.6	339.7	324.3
132.5°	1275.1	1242.5	1136.8	980.2	794.3	604.6	464.3	377.9	352.8
135°	1301.4	1273.8	1178.0	1025.5	851.6	668.5	528.3	444.0	418.5
137.5°	1318.4	1296.9	1215.0	1062.7	904.7	731.9	593.0	508.3	485.2
140°	1327.6	1310.2	1233.4	1084.7	937.4	772.7	638.2	551.9	530.4
142.5°	1336.8	1322.7	1246.8	1109.1	969.2	813.5	682.5	596.2	573.1
145°	1355.8	1339.5	1269.0	1138.6	1014.8	870.6	751.1	660.7	640.3
147.5°	1369.2	1349.6	1287.2	1170.2	1057.9	922.2	814.1	726.8	706.6
150°	1372.6	1352.1	1297.2	1187.1	1083.8	953.9	852.6	769.5	750.1
152.5°	1370.1	1354.5	1304.8	1201.5	1105.6	984.7	887.8	810.6	792.8
155°	1371.5	1357.2	1310.8	1221.0	1133.0	1027.6	940.5	872.1	853.7
157.5°	1365.3	1355.8	1315.0	1235.9	1158.3	1066.1	988.8	931.3	912.7
160°	1365.3	1350.9	1315.0	1244.4	1175.9	1091.0	1019.0	967.4	952.0
162.5°	1356.0	1343.4	1314.2	1250.5	1192.6	1114.3	1047.4	999.3	988.0
165°	1339.1	1328.9	1309.8	1258.6	1213.6	1146.0	1088.0	1045.0	1037.8
167.5°	1325.9	1311.8	1301.4	1258.3	1227.8	1168.9	1122.3	1086.7	1082.6
170°	1310.8	1301.6	1293.1	1256.0	1234.5	1185.4	1146.6	1110.9	1106.8
172.5°	1291.6	1286.5	1282.2	1254.4	1238.7	1199.4	1167.5	1135.1	1127.8
175°	1261.7	1265.8	1264.8	1251.0	1242.8	1217.3	1197.9	1174.6	1165.4
177.5°	1243.3	1241.6	1245.8	1243.2	1242.4	1226.9	1221.5	1205.7	1210.6
180°	1232.4	1232.4	1232.4	1232.4	1232.4	1232.4	1232.4	1232.4	1232.4

(END OF REPORT)