

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: P522389

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

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522389
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-075D-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 750 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

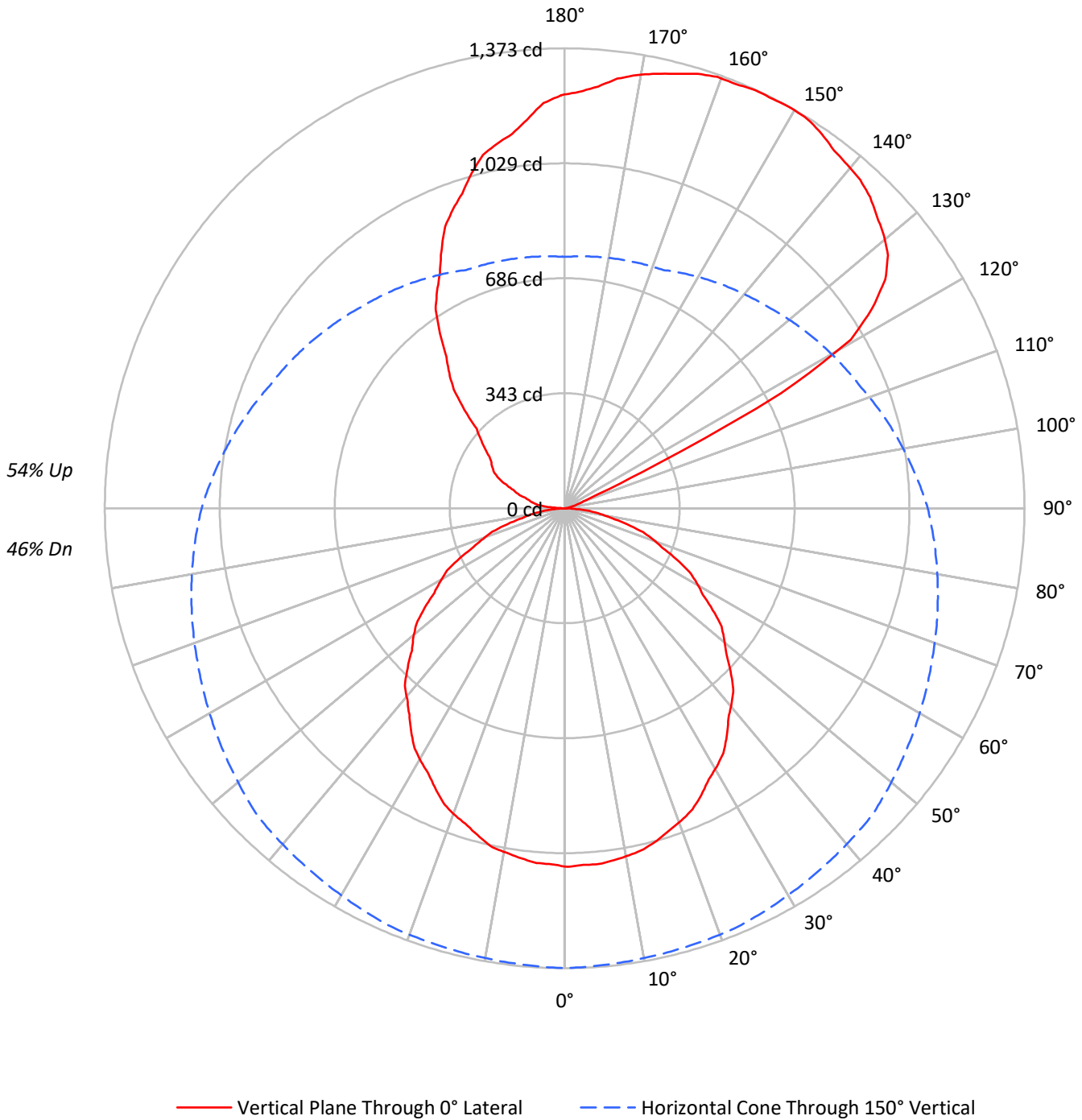
Lumens per Lamp: N/A
Luminaire Lumens: 6427.2 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 57.4
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	106	106	106	106	98	98	98	98	81	81	81	67	67	67	53	53	53	46
1	97	93	89	85	89	85	82	79	71	69	67	58	57	55	47	45	44	39
2	88	81	74	69	81	74	69	64	62	58	55	51	48	46	41	39	37	32
3	80	71	63	58	73	65	59	54	55	50	46	45	42	39	36	34	32	27
4	73	63	55	49	67	58	51	45	49	43	39	40	36	33	32	29	27	23
5	67	56	47	41	61	51	44	39	43	38	34	36	32	28	29	26	23	20
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	21	18
7	57	45	37	31	52	42	34	29	35	30	26	29	25	22	24	21	18	16
8	53	41	33	28	49	38	31	26	32	27	23	27	23	19	22	19	16	14
9	49	37	30	25	45	34	28	23	29	24	20	25	20	17	20	17	15	12
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	19	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	17279	17279	17279
5°	17295	17447	17211
10°	17272	17392	17100
15°	17207	17331	16944
20°	17094	17220	16735
25°	16885	17072	16475
30°	16677	16871	16209
35°	16435	16642	15940
40°	16162	16404	15567
45°	15863	16173	15264
50°	15503	15872	14900
55°	15108	15550	14460
60°	14628	15235	13918
65°	13990	14747	13230
70°	13237	14077	12246
75°	12071	12788	11029
80°	10507	11381	9437
85°	7947	8911	6595



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.2	1.6
10°-20°	289.3	4.5
20°-30°	435.1	6.8
30°-40°	519.7	8.1
40°-50°	534.3	8.3
50°-60°	480.9	7.5
60°-70°	365.9	5.7
70°-80°	207.4	3.2
80°-90°	54.5	0.8
90°-100°	32.4	0.5
100°-110°	140.3	2.2
110°-120°	400.0	6.2
120°-130°	608.2	9.5
130°-140°	657.8	10.2
140°-150°	628.5	9.8
150°-160°	517.0	8.0
160°-170°	337.8	5.3
170°-180°	116.8	1.8
0°-30°	825.6	12.8
0°-40°	1345.4	20.9
0°-60°	2360.5	36.7
0°-90°	2988.4	46.5
90°-120°	572.7	8.9
90°-150°	2467.2	38.4
90°-180°	3439.0	53.5
0°-180°	6427.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1070	1070	1070	1070	1070	
5°	1067	1067	1076	1064	1062	101
15°	1029	1032	1037	1023	1014	290
25°	948	957	958	942	925	437
35°	834	845	844	826	809	521
45°	695	704	708	687	668	535
55°	537	547	552	532	514	479
65°	366	377	386	363	346	363
75°	194	200	205	188	177	205
85°	43	48	48	43	36	51
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	



TEST NUMBER: P522389

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2
2.5°	1066.0	1069.3	1069.4	1069.6	1077.8	1068.8	1068.6	1068.4	1063.5
5°	1067.1	1067.1	1067.1	1065.3	1076.5	1064.2	1064.0	1061.9	1061.9
7.5°	1061.0	1059.2	1060.4	1058.1	1068.3	1055.0	1055.8	1053.5	1053.1
10°	1053.5	1052.5	1054.5	1050.6	1060.8	1047.5	1048.3	1045.1	1043.0
12.5°	1045.1	1044.1	1047.0	1041.4	1052.4	1039.1	1039.1	1035.1	1034.7
15°	1029.4	1029.4	1031.5	1027.5	1036.8	1023.5	1023.2	1018.9	1013.7
17.5°	1010.8	1008.6	1013.5	1007.0	1016.5	1001.5	1002.6	996.4	990.7
20°	994.9	991.8	1000.1	992.0	1002.2	984.8	987.6	978.1	974.0
22.5°	976.5	974.2	983.4	976.1	985.5	968.9	970.0	958.0	954.7
25°	947.8	946.8	957.2	949.1	958.3	940.9	941.6	928.9	924.8
27.5°	916.2	915.4	926.9	918.7	926.7	910.5	911.0	897.1	892.0
30°	894.5	894.5	906.0	897.8	904.9	889.6	889.2	874.5	869.4
32.5°	871.0	870.2	881.7	875.2	881.5	865.3	864.1	850.2	845.1
35°	833.8	833.8	845.3	838.1	844.3	829.9	826.5	812.8	808.7
37.5°	794.5	793.4	804.9	800.4	806.0	790.8	786.1	771.4	770.4
40°	766.8	765.8	777.3	775.3	778.3	764.0	758.5	743.7	738.6
42.5°	738.4	739.0	748.8	746.8	750.7	736.4	730.9	715.3	712.6
45°	694.7	693.6	704.1	703.1	708.3	693.9	687.3	670.5	668.5
47.5°	649.0	649.5	658.7	659.8	662.9	649.8	641.9	625.4	623.3
50°	617.2	619.3	627.7	628.8	631.9	619.6	611.0	595.2	593.2
52.5°	586.3	587.5	595.9	599.5	600.1	589.4	579.2	564.3	562.2
55°	536.7	539.8	547.1	551.4	552.4	543.2	531.5	516.7	513.7
57.5°	486.5	488.5	498.6	503.4	503.6	494.0	482.3	468.6	463.7
60°	453.0	455.0	463.5	470.8	471.8	460.6	448.8	435.1	431.0
62.5°	418.7	420.7	429.1	436.5	437.5	427.1	414.5	400.8	397.5
65°	366.2	368.2	376.6	385.0	386.0	375.8	363.0	349.4	346.3
67.5°	314.7	316.7	324.9	331.9	334.1	323.1	311.3	298.7	294.6
70°	280.4	282.4	289.8	295.1	298.2	287.9	276.2	263.5	259.4
72.5°	244.4	245.6	253.0	259.0	259.7	251.1	240.2	230.1	226.8
75°	193.5	195.6	199.8	206.1	205.0	196.9	188.3	180.9	176.8
77.5°	144.8	147.0	151.1	155.3	155.9	148.3	141.0	133.6	130.8
80°	113.0	116.1	119.3	123.4	122.4	117.3	110.9	103.5	101.5
82.5°	83.7	85.9	90.0	93.3	90.6	87.1	82.4	75.1	73.0
85°	42.9	43.9	48.1	51.2	48.1	47.1	42.9	37.6	35.6
87.5°	9.2	10.8	14.2	18.3	15.1	15.9	12.6	8.4	7.5
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)