

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: P522384

Luminaire Tested: **SQW-F-075U-075D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522384
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 (2700K)
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 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

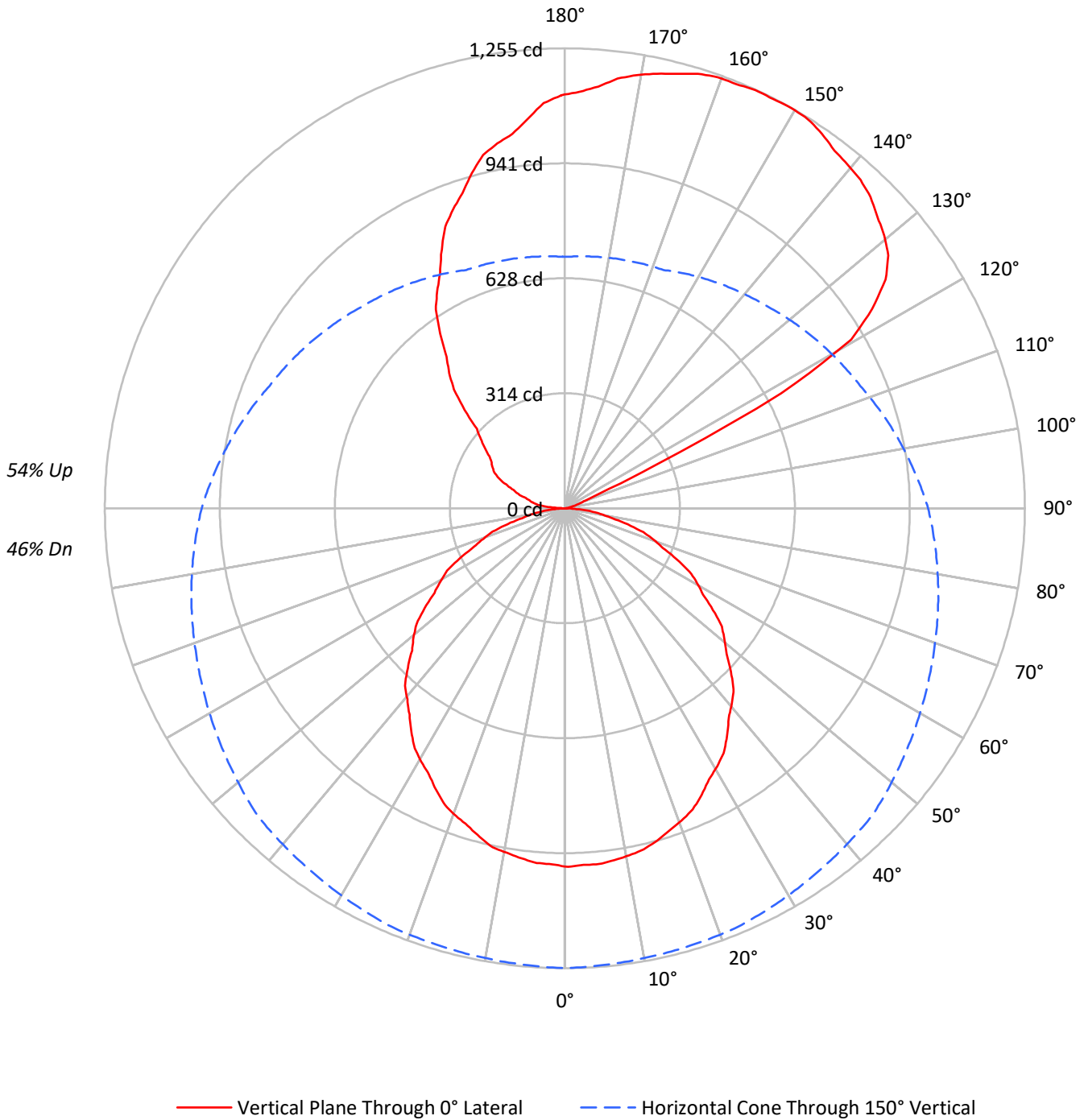
Lumens per Lamp: N/A
Luminaire Lumens: 5877.8 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

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	48	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°	15802	15802	15802
5°	15817	15956	15739
10°	15795	15905	15639
15°	15736	15848	15497
20°	15634	15749	15304
25°	15442	15613	15068
30°	15250	15429	14822
35°	15029	15218	14578
40°	14781	15003	14237
45°	14506	14789	13961
50°	14179	14516	13627
55°	13816	14221	13225
60°	13378	13934	12729
65°	12795	13486	12099
70°	12104	12873	11202
75°	11042	11697	10087
80°	9605	10404	8629
85°	7262	8151	6021



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.6	1.6
10°-20°	264.5	4.5
20°-30°	397.9	6.8
30°-40°	475.3	8.1
40°-50°	488.6	8.3
50°-60°	439.8	7.5
60°-70°	334.7	5.7
70°-80°	189.6	3.2
80°-90°	49.9	0.8
90°-100°	29.6	0.5
100°-110°	128.3	2.2
110°-120°	365.8	6.2
120°-130°	556.2	9.5
130°-140°	601.6	10.2
140°-150°	574.8	9.8
150°-160°	472.8	8.0
160°-170°	308.9	5.3
170°-180°	106.8	1.8
0°-30°	755.0	12.8
0°-40°	1230.3	20.9
0°-60°	2158.7	36.7
0°-90°	2732.9	46.5
90°-120°	523.7	8.9
90°-150°	2256.3	38.4
90°-180°	3145.0	53.5
0°-180°	5877.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	979	979	979	979	979	
5°	976	976	984	973	971	93
15°	941	943	948	936	927	266
25°	867	875	876	861	846	399
35°	762	773	772	756	740	477
45°	635	644	648	629	611	490
55°	491	500	505	486	470	439
65°	335	344	353	332	317	332
75°	177	183	188	172	162	188
85°	39	44	44	39	32	47
90°	0	0	0	0	0	1
95°	5	7	20	48	45	6
105°	30	76	148	101	109	34
115°	270	718	370	176	199	371
125°	1075	946	592	291	250	945
135°	1190	1077	779	483	383	917
145°	1240	1160	928	687	586	777
155°	1254	1199	1036	860	781	580
165°	1225	1198	1110	995	949	348
175°	1154	1157	1137	1096	1066	112
180°	1127	1127	1127	1127	1127	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	978.7	978.7	978.7	978.7	978.7	978.7	978.7	978.7	978.7
2.5°	974.9	977.9	978.0	978.1	985.6	977.4	977.2	977.1	972.6
5°	975.9	975.9	975.9	974.2	984.5	973.3	973.0	971.1	971.1
7.5°	970.3	968.6	969.7	967.7	977.0	964.9	965.5	963.4	963.1
10°	963.4	962.5	964.4	960.8	970.1	958.0	958.6	955.7	953.9
12.5°	955.8	954.8	957.5	952.4	962.5	950.3	950.2	946.6	946.2
15°	941.4	941.4	943.3	939.7	948.1	936.0	935.7	931.8	927.1
17.5°	924.4	922.3	926.9	921.0	929.6	915.9	916.9	911.3	906.0
20°	909.9	907.0	914.6	907.2	916.6	900.7	903.2	894.5	890.7
22.5°	893.0	891.0	899.3	892.6	901.2	886.1	887.1	876.1	873.1
25°	866.8	865.9	875.4	868.0	876.4	860.5	861.1	849.5	845.8
27.5°	837.9	837.2	847.7	840.2	847.5	832.7	833.1	820.4	815.7
30°	818.0	818.0	828.5	821.0	827.6	813.5	813.2	799.7	795.0
32.5°	796.6	795.8	806.3	800.3	806.1	791.4	790.3	777.5	772.9
35°	762.5	762.5	773.0	766.5	772.1	759.0	755.8	743.3	739.6
37.5°	726.5	725.6	736.1	732.0	737.1	723.2	718.9	705.5	704.5
40°	701.3	700.4	710.9	709.0	711.8	698.7	693.6	680.1	675.5
42.5°	675.3	675.8	684.8	683.0	686.6	673.5	668.4	654.2	651.7
45°	635.3	634.3	643.9	643.0	647.7	634.6	628.6	613.2	611.4
47.5°	593.6	593.9	602.4	603.4	606.2	594.2	587.1	571.9	570.0
50°	564.5	566.3	574.0	575.1	577.9	566.6	558.7	544.3	542.5
52.5°	536.2	537.3	545.0	548.2	548.8	539.1	529.6	516.0	514.2
55°	490.8	493.6	500.4	504.2	505.2	496.7	486.0	472.6	469.8
57.5°	444.9	446.8	456.0	460.4	460.6	451.8	441.1	428.5	424.0
60°	414.3	416.1	423.8	430.6	431.5	421.2	410.4	397.9	394.2
62.5°	382.9	384.8	392.5	399.2	400.1	390.6	379.1	366.6	363.6
65°	334.9	336.7	344.4	352.1	353.0	343.7	332.0	319.5	316.7
67.5°	287.8	289.7	297.2	303.5	305.6	295.5	284.7	273.2	269.4
70°	256.4	258.3	265.0	269.9	272.7	263.3	252.6	241.0	237.3
72.5°	223.5	224.6	231.3	236.9	237.5	229.6	219.7	210.4	207.4
75°	177.0	178.9	182.7	188.5	187.5	180.0	172.2	165.4	161.7
77.5°	132.4	134.5	138.2	142.0	142.6	135.6	129.0	122.2	119.6
80°	103.3	106.1	109.1	112.9	111.9	107.3	101.4	94.7	92.8
82.5°	76.5	78.6	82.3	85.3	82.9	79.7	75.4	68.7	66.8
85°	39.2	40.2	44.0	46.8	44.0	43.1	39.2	34.4	32.5
87.5°	8.4	9.9	13.0	16.8	13.8	14.5	11.5	7.6	6.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.5	1.5	1.5	3.1	4.6	16.6	18.4	16.1	16.1
95°	4.8	4.8	6.7	21.0	20.1	34.1	47.8	45.0	45.0
97.5°	9.8	10.7	15.3	62.2	46.9	45.6	64.7	72.0	73.3
100°	14.4	15.3	23.0	101.6	69.8	59.6	70.8	84.3	87.1
102.5°	19.7	21.4	36.7	159.9	98.2	69.9	80.7	92.7	96.2
105°	29.7	32.5	75.6	268.0	148.3	91.2	101.4	106.3	109.1
107.5°	44.0	55.4	203.6	376.6	210.5	120.5	131.3	130.6	133.0
110°	59.3	82.7	352.1	436.0	256.4	143.2	143.5	151.1	148.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	98.4	164.4	525.1	493.2	302.3	170.4	155.0	171.9	172.8
115°	269.8	463.4	717.6	573.3	370.3	218.7	176.0	192.5	199.0
117.5°	669.0	806.3	816.1	644.4	438.0	272.6	200.1	207.4	216.0
120°	907.0	935.1	862.0	688.0	483.2	311.0	220.0	217.4	226.7
122.5°	1000.4	990.3	899.5	728.7	527.5	351.7	244.5	229.6	235.9
125°	1075.4	1049.2	946.2	784.9	592.2	412.6	290.8	249.7	249.7
127.5°	1120.1	1089.7	989.1	834.9	650.6	474.2	346.5	282.4	273.6
130°	1146.2	1113.4	1015.1	869.4	688.9	513.9	385.6	310.6	296.6
132.5°	1166.1	1136.3	1039.6	896.4	726.4	552.9	424.6	345.6	322.6
135°	1190.2	1164.9	1077.3	937.8	778.8	611.3	483.2	406.1	382.7
137.5°	1205.7	1186.0	1111.2	971.8	827.4	669.3	542.3	464.9	443.7
140°	1214.1	1198.2	1128.0	991.9	857.2	706.6	583.6	504.7	485.1
142.5°	1222.5	1209.6	1140.2	1014.3	886.3	743.9	624.2	545.2	524.1
145°	1239.9	1225.0	1160.5	1041.2	928.0	796.1	686.9	604.2	585.5
147.5°	1252.2	1234.2	1177.2	1070.2	967.5	843.4	744.5	664.7	646.2
150°	1255.2	1236.5	1186.4	1085.7	991.2	872.4	779.7	703.8	686.0
152.5°	1252.9	1238.7	1193.2	1098.8	1011.1	900.5	811.9	741.3	725.0
155°	1254.3	1241.2	1198.8	1116.6	1036.1	939.8	860.1	797.5	780.7
157.5°	1248.5	1239.9	1202.6	1130.2	1059.3	974.9	904.3	851.7	834.7
160°	1248.5	1235.4	1202.6	1138.0	1075.4	997.7	931.9	884.7	870.6
162.5°	1240.1	1228.5	1201.9	1143.6	1090.7	1019.0	957.9	913.8	903.5
165°	1224.6	1215.3	1197.8	1151.0	1109.8	1048.1	995.0	955.6	949.1
167.5°	1212.6	1199.7	1190.2	1150.7	1122.8	1068.9	1026.4	993.8	990.0
170°	1198.8	1190.4	1182.5	1148.6	1128.9	1084.0	1048.6	1016.0	1012.2
172.5°	1181.2	1176.5	1172.6	1147.2	1132.8	1096.9	1067.7	1038.1	1031.4
175°	1153.8	1157.6	1156.7	1144.1	1136.6	1113.2	1095.5	1074.2	1065.8
177.5°	1137.0	1135.5	1139.3	1137.0	1136.2	1122.0	1117.1	1102.6	1107.1
180°	1127.0	1127.0	1127.0	1127.0	1127.0	1127.0	1127.0	1127.0	1127.0

(END OF REPORT)