

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: P522551

Luminaire Tested: **SQW-F-075U-075D-93050-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522551
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-53,
Test Lab: INNOVATION CENTER
Issue Date: 5/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-075U-075D-93050-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

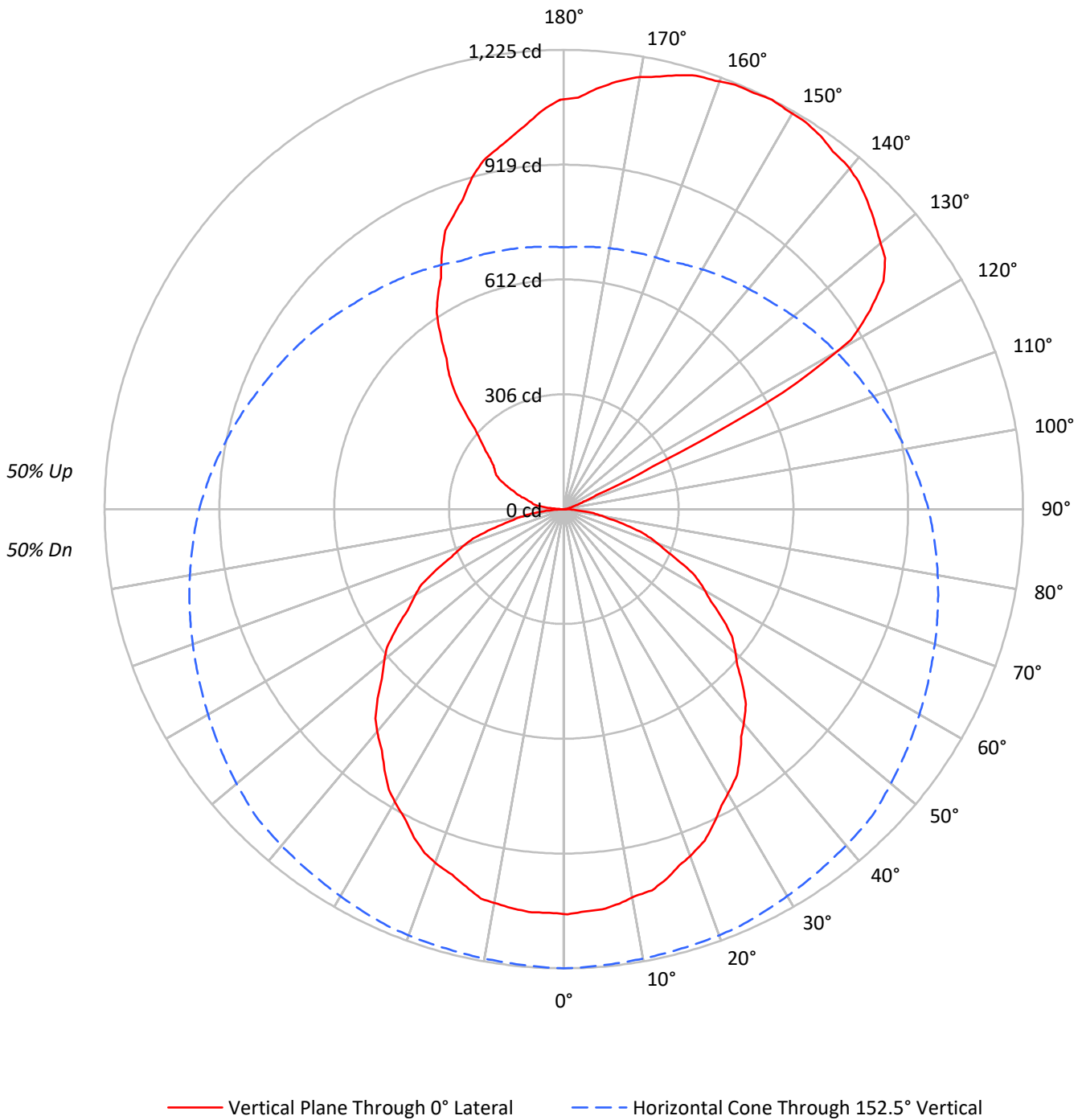
Lumens per Lamp: N/A
Luminaire Lumens: 6052.1 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 57
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	93	89	86	90	86	83	80	73	70	68	61	59	57	49	48	47	42
2	89	81	75	70	82	75	70	65	64	60	56	53	50	48	43	41	39	35
3	81	71	64	58	74	66	59	54	56	51	47	47	43	40	38	36	33	29
4	74	63	55	49	68	58	51	46	50	44	40	42	37	34	34	31	29	25
5	68	56	48	42	62	52	45	39	44	39	34	37	33	30	31	27	25	22
6	62	50	42	36	57	47	39	34	40	34	30	34	29	26	28	24	22	19
7	58	45	37	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17
8	53	41	33	28	49	38	31	26	33	27	23	28	23	20	23	20	17	15
9	50	37	30	25	46	35	28	23	30	25	21	26	21	18	21	18	16	13
10	46	34	27	22	43	32	25	21	28	22	19	24	19	16	20	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	17452	17452	17452
5°	17386	17634	17485
10°	17203	17554	17505
15°	17115	17523	17387
20°	16857	17383	17295
25°	16554	17190	17152
30°	16242	16982	16887
35°	15948	16811	16630
40°	15616	16647	16432
45°	15269	16408	16175
50°	14878	16056	15850
55°	14410	15758	15415
60°	13837	15381	14987
65°	13066	14892	14388
70°	12203	14224	13695
75°	10792	12951	12445
80°	8991	11353	10981
85°	5854	8855	8485



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.2	1.7
10°-20°	291.8	4.8
20°-30°	439.0	7.3
30°-40°	524.5	8.7
40°-50°	539.7	8.9
50°-60°	485.2	8.0
60°-70°	369.6	6.1
70°-80°	209.7	3.5
80°-90°	54.9	0.9
90°-100°	27.6	0.5
100°-110°	122.3	2.0
110°-120°	351.6	5.8
120°-130°	535.5	8.8
130°-140°	581.3	9.6
140°-150°	555.9	9.2
150°-160°	458.0	7.6
160°-170°	299.7	5.0
170°-180°	103.7	1.7
0°-30°	833.1	13.8
0°-40°	1357.5	22.4
0°-60°	2382.3	39.4
0°-90°	3016.6	49.8
90°-120°	501.5	8.3
90°-150°	2174.2	35.9
90°-180°	3036.0	50.2
0°-180°	6052.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1081	1081	1081	1081	1081	
5°	1073	1074	1088	1081	1079	102
15°	1024	1029	1048	1043	1040	288
25°	929	950	965	971	963	428
35°	809	830	853	858	844	506
45°	669	688	719	716	708	515
55°	512	532	560	557	548	457
65°	342	363	390	387	377	339
75°	173	187	208	206	200	184
85°	32	41	48	51	46	41
90°	0	0	0	0	0	1
95°	4	6	19	43	42	6
105°	28	74	140	97	103	32
115°	264	693	354	166	186	364
125°	1047	912	565	280	238	919
135°	1154	1045	749	464	370	891
145°	1208	1125	894	660	564	757
155°	1220	1170	1000	828	755	565
165°	1195	1164	1073	964	917	339
175°	1125	1128	1105	1056	1031	109
180°	1092	1092	1092	1092	1092	



TEST NUMBER: P522551

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1080.9	1080.9	1080.9	1080.9	1080.9	1080.9	1080.9	1080.9	1080.9
2.5°	1074.4	1077.6	1079.3	1075.5	1090.7	1077.9	1082.5	1079.2	1076.8
5°	1072.7	1071.7	1073.8	1070.1	1088.0	1074.1	1080.9	1075.9	1078.8
7.5°	1062.4	1060.4	1064.0	1064.5	1078.0	1067.9	1071.9	1070.6	1074.2
10°	1049.3	1051.3	1057.5	1058.8	1070.7	1059.8	1064.6	1065.7	1067.7
12.5°	1043.6	1040.1	1046.9	1050.6	1063.4	1050.0	1058.9	1058.4	1062.0
15°	1023.9	1022.9	1029.0	1032.4	1048.3	1036.4	1043.2	1043.2	1040.2
17.5°	999.1	999.1	1007.2	1008.8	1025.5	1016.8	1023.5	1020.4	1019.6
20°	981.1	981.1	993.4	991.8	1011.7	1003.7	1009.6	1002.6	1006.6
22.5°	960.8	961.6	976.3	973.8	992.9	988.2	995.0	984.7	989.5
25°	929.2	932.2	949.6	947.9	964.9	959.9	971.0	958.8	962.8
27.5°	895.6	899.8	917.2	917.0	933.7	930.1	942.9	928.8	929.4
30°	871.2	876.2	893.6	895.0	910.9	904.9	920.1	906.8	905.8
32.5°	847.6	851.8	869.2	872.2	888.1	884.5	896.5	883.2	881.4
35°	809.1	814.1	830.5	836.0	852.9	847.9	858.0	845.7	843.7
37.5°	769.4	772.6	790.0	794.7	815.0	810.9	817.3	805.5	805.7
40°	740.9	744.9	762.3	767.9	789.8	784.8	788.8	778.6	779.6
42.5°	712.4	716.4	733.0	741.0	761.3	756.3	759.5	750.9	751.1
45°	668.7	671.7	688.0	698.7	718.6	713.6	715.5	707.4	708.4
47.5°	623.3	625.5	640.4	655.2	671.7	669.5	669.9	659.8	662.8
50°	592.3	595.3	608.6	624.2	639.2	640.2	638.1	628.0	631.0
52.5°	560.6	562.8	578.5	591.7	607.4	609.2	605.6	596.3	598.5
55°	511.9	513.9	532.3	545.8	559.8	560.8	556.7	549.6	547.6
57.5°	461.9	464.9	482.0	496.8	510.5	508.7	506.7	498.3	496.7
60°	428.5	431.5	447.8	463.4	476.3	475.3	473.3	464.1	464.1
62.5°	394.3	398.1	415.3	429.2	442.1	441.9	439.1	432.3	430.7
65°	342.0	346.0	363.3	375.9	389.8	389.8	386.8	378.6	376.6
67.5°	291.9	295.9	310.2	323.2	337.1	335.9	333.0	327.9	325.1
70°	258.5	262.5	272.8	287.3	301.3	299.3	297.2	292.1	290.1
72.5°	222.7	227.5	237.8	250.7	263.8	263.4	261.4	258.6	254.2
75°	173.0	176.0	187.3	198.7	207.6	208.6	205.6	204.5	199.5
77.5°	126.0	129.8	139.0	148.9	155.5	158.7	156.9	154.4	150.6
80°	96.7	99.7	108.9	117.2	122.1	126.1	125.2	121.0	118.1
82.5°	69.0	72.0	79.6	87.0	91.2	95.2	94.2	91.7	87.1
85°	31.6	33.5	40.7	45.8	47.8	52.8	50.9	48.8	45.8
87.5°	4.9	5.7	10.6	15.5	14.7	19.4	17.1	13.8	10.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.8	0.8	1.6	2.5	4.1	15.2	17.1	15.5	14.7
95°	4.1	4.1	6.1	19.3	19.3	31.3	42.7	41.7	41.7
97.5°	9.2	10.2	14.2	58.9	44.0	42.8	61.1	67.2	67.8
100°	13.2	14.2	22.4	96.0	65.1	55.2	65.1	79.5	82.4
102.5°	18.1	19.9	35.4	151.5	92.0	66.1	76.5	86.8	89.8
105°	27.5	30.5	74.3	253.9	140.5	87.7	96.7	101.8	102.8
107.5°	41.3	52.5	203.4	357.1	199.3	116.1	121.3	124.8	126.0
110°	56.0	79.9	353.2	419.4	243.3	137.8	134.3	143.5	141.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	94.2	164.3	518.5	470.5	287.2	163.4	146.6	161.4	162.6
115°	263.6	452.7	693.1	543.3	354.2	207.9	165.9	180.3	186.3
117.5°	661.6	787.1	785.1	610.6	418.5	260.3	189.1	196.0	202.7
120°	889.5	908.5	831.5	656.1	460.0	297.8	208.6	205.7	211.7
122.5°	974.2	958.9	866.5	696.0	502.4	337.0	233.9	216.3	221.5
125°	1047.3	1017.4	911.9	753.0	564.9	394.7	279.9	239.2	238.2
127.5°	1087.8	1056.6	956.3	802.4	622.3	454.7	332.2	271.5	262.4
130°	1107.3	1078.5	987.2	832.7	660.5	495.3	370.5	299.9	286.0
132.5°	1131.0	1099.7	1009.2	863.8	697.2	533.6	408.7	334.1	317.8
135°	1154.2	1125.3	1045.3	904.3	749.1	589.9	464.1	390.4	369.5
137.5°	1174.9	1148.5	1078.2	936.2	795.9	645.2	522.7	450.9	425.4
140°	1188.8	1159.9	1092.1	960.7	824.4	680.1	561.8	490.1	470.2
142.5°	1193.7	1175.9	1106.7	981.4	856.2	713.5	600.9	526.8	508.5
145°	1208.1	1196.2	1124.7	1006.1	893.6	763.2	660.5	583.8	563.9
147.5°	1217.5	1199.6	1141.1	1032.8	930.3	807.8	714.7	641.0	622.5
150°	1218.3	1204.4	1154.2	1049.2	954.7	840.2	748.1	678.5	661.6
152.5°	1224.8	1207.7	1160.7	1063.2	972.6	867.7	781.5	716.7	698.2
155°	1220.3	1208.4	1170.5	1081.1	1000.5	903.0	828.5	771.1	755.2
157.5°	1220.3	1205.6	1171.7	1095.0	1027.4	941.8	872.4	819.5	807.5
160°	1212.2	1206.2	1172.5	1104.9	1041.2	963.6	901.8	853.6	837.6
162.5°	1208.9	1199.0	1174.1	1111.5	1053.4	981.4	927.0	881.3	869.4
165°	1194.9	1185.9	1164.3	1114.5	1072.7	1013.0	963.8	923.0	917.0
167.5°	1178.8	1171.8	1157.6	1119.4	1085.6	1036.8	995.4	962.4	954.3
170°	1167.4	1156.5	1151.1	1121.9	1092.1	1051.3	1015.7	986.0	977.1
172.5°	1147.9	1146.5	1142.2	1115.7	1097.8	1064.1	1034.5	1007.3	1001.5
175°	1124.7	1124.7	1127.7	1111.3	1105.3	1077.4	1056.5	1040.0	1031.0
177.5°	1097.8	1098.6	1105.1	1104.3	1105.1	1089.2	1083.1	1067.6	1066.0
180°	1092.1	1092.1	1092.1	1092.1	1092.1	1092.1	1092.1	1092.1	1092.1

(END OF REPORT)