

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: P522601

Luminaire Tested: **SQW-F-100U-075D-93050-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522601
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-100U-075D-93050-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

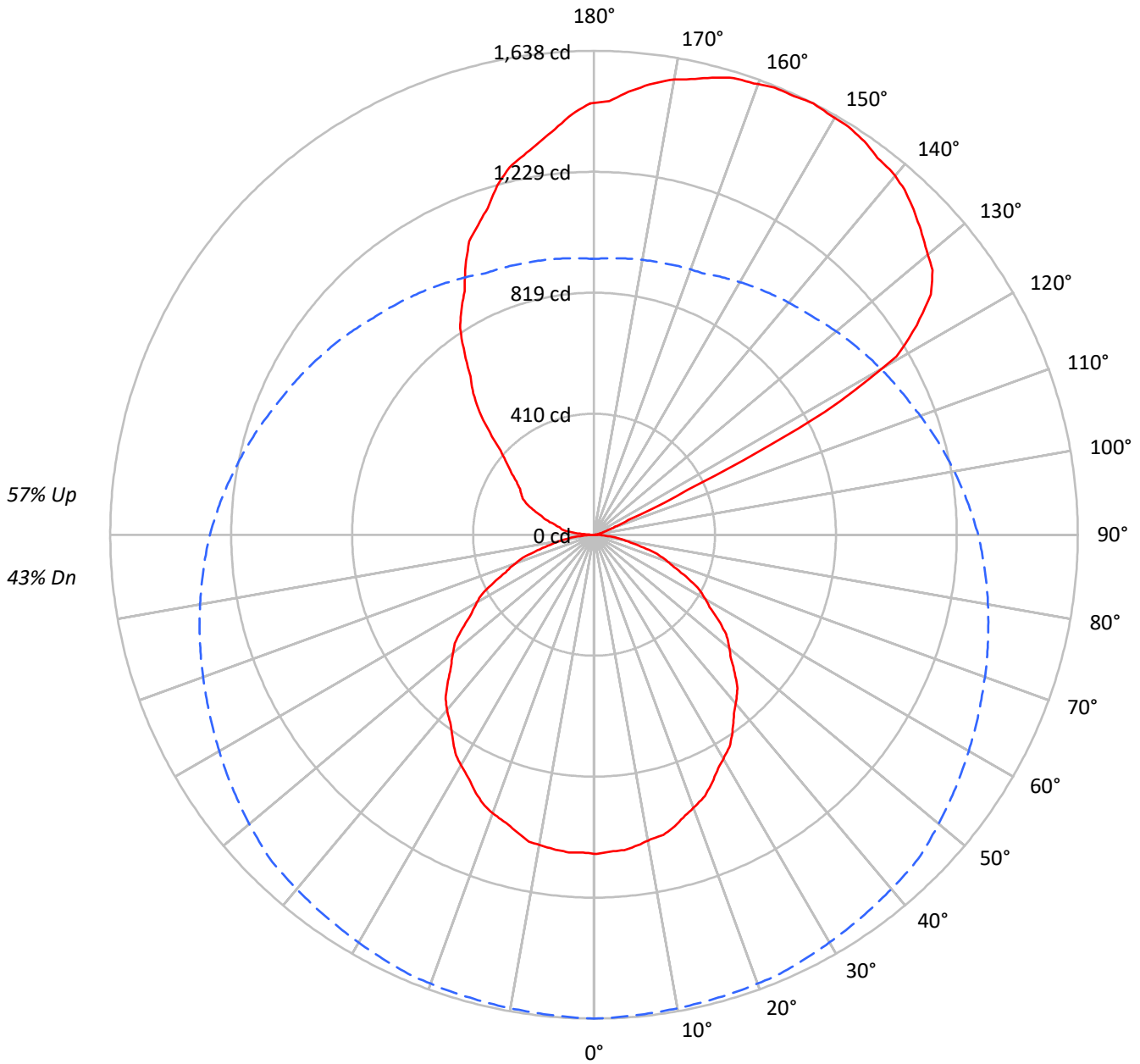
Lumens per Lamp: N/A
Luminaire Lumens: 7077.2 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 66.1
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



— Vertical Plane Through 0° Lateral - - - Horizontal Cone Through 152.5° Vertical



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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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	49	49	49	43
1	96	92	88	84	88	84	81	78	69	67	65	56	54	53	43	42	41	36
2	87	80	74	69	79	73	68	63	61	57	53	49	46	44	38	36	35	30
3	80	70	63	57	72	64	58	53	53	49	45	43	40	37	34	31	29	25
4	73	62	54	48	66	57	50	45	47	42	38	38	35	32	30	27	25	21
5	67	55	47	41	61	51	43	38	42	37	33	34	30	27	27	24	22	18
6	61	49	41	35	56	45	38	33	38	32	28	31	27	24	24	21	19	16
7	57	44	36	31	52	41	34	29	34	29	25	28	24	21	22	19	17	14
8	52	40	33	27	48	37	30	25	31	26	22	26	22	19	20	17	15	13
9	49	37	29	24	45	34	27	23	29	23	20	23	19	17	19	16	14	11
10	46	34	26	22	42	31	25	20	26	21	18	22	18	15	17	14	12	10

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	1.4
10°-20°	291.8	4.1
20°-30°	439.0	6.2
30°-40°	524.5	7.4
40°-50°	539.7	7.6
50°-60°	485.2	6.9
60°-70°	369.6	5.2
70°-80°	209.7	3.0
80°-90°	54.9	0.8
90°-100°	36.9	0.5
100°-110°	163.6	2.3
110°-120°	470.3	6.6
120°-130°	716.3	10.1
130°-140°	777.6	11.0
140°-150°	743.6	10.5
150°-160°	612.6	8.7
160°-170°	400.9	5.7
170°-180°	138.7	2.0
0°-30°	833.1	11.8
0°-40°	1357.5	19.2
0°-60°	2382.3	33.7
0°-90°	3016.6	42.6
90°-120°	670.9	9.5
90°-150°	2908.4	41.1
90°-180°	4061.0	57.4
0°-180°	7077.2	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°	5	8	26	57	56	7
105°	37	99	188	129	138	43
115°	353	927	474	222	249	487
125°	1401	1220	756	374	319	1230
135°	1544	1398	1002	621	494	1192
145°	1616	1504	1195	884	754	1013
155°	1632	1566	1338	1108	1010	756
165°	1598	1558	1435	1289	1227	453
175°	1504	1508	1479	1413	1379	145
180°	1461	1461	1461	1461	1461	



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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°	1.1	1.1	2.2	3.3	5.4	20.4	22.9	20.7	19.6
95°	5.4	5.4	8.2	25.9	25.9	41.8	57.2	55.8	55.8
97.5°	12.3	13.6	19.1	78.8	58.8	57.2	81.7	89.9	90.7
100°	17.7	19.0	30.0	128.4	87.1	73.8	87.1	106.3	110.3
102.5°	24.2	26.6	47.4	202.7	123.1	88.5	102.4	116.1	120.1
105°	36.8	40.8	99.4	339.6	187.9	117.3	129.3	136.2	137.5
107.5°	55.3	70.2	272.0	477.7	266.6	155.3	162.3	167.0	168.6
110°	74.9	106.8	472.4	561.0	325.4	184.3	179.7	191.9	189.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	126.1	219.8	693.5	629.4	384.2	218.6	196.1	216.0	217.6
115°	352.6	605.6	927.2	726.7	473.8	278.1	221.9	241.2	249.2
117.5°	885.0	1053.0	1050.2	816.8	559.8	348.2	253.0	262.2	271.2
120°	1189.9	1215.2	1112.3	877.6	615.4	398.4	279.1	275.2	283.2
122.5°	1303.2	1282.7	1159.2	931.1	672.0	450.8	312.9	289.3	296.3
125°	1401.0	1361.0	1219.9	1007.2	755.6	528.0	374.4	319.9	318.6
127.5°	1455.1	1413.3	1279.2	1073.4	832.4	608.2	444.4	363.2	351.0
130°	1481.3	1442.7	1320.6	1113.9	883.6	662.6	495.6	401.2	382.6
132.5°	1512.9	1471.1	1350.0	1155.5	932.6	713.8	546.8	446.9	425.1
135°	1543.9	1505.3	1398.2	1209.7	1002.0	789.1	620.8	522.2	494.2
137.5°	1571.7	1536.3	1442.3	1252.4	1064.7	863.1	699.3	603.2	569.1
140°	1590.2	1551.6	1460.9	1285.2	1102.8	909.8	751.5	655.6	629.0
142.5°	1596.7	1573.0	1480.5	1312.7	1145.3	954.4	803.8	704.7	680.2
145°	1616.1	1600.1	1504.4	1345.8	1195.4	1021.0	883.6	780.9	754.3
147.5°	1628.6	1604.6	1526.5	1381.5	1244.4	1080.6	956.0	857.4	832.7
150°	1629.7	1611.1	1543.9	1403.5	1277.1	1124.0	1000.7	907.6	885.0
152.5°	1638.4	1615.5	1552.6	1422.2	1301.0	1160.7	1045.3	958.7	934.0
155°	1632.4	1616.4	1565.7	1446.2	1338.3	1207.9	1108.2	1031.5	1010.2
157.5°	1632.4	1612.7	1567.3	1464.8	1374.3	1259.8	1167.1	1096.2	1080.2
160°	1621.5	1613.5	1568.4	1478.0	1392.8	1289.0	1206.3	1141.8	1120.5
162.5°	1617.2	1603.9	1570.6	1486.9	1409.1	1312.7	1240.0	1178.9	1163.0
165°	1598.4	1586.4	1557.5	1490.9	1435.0	1355.1	1289.3	1234.7	1226.7
167.5°	1576.9	1567.5	1548.5	1497.4	1452.2	1386.9	1331.5	1287.4	1276.5
170°	1561.6	1547.0	1539.8	1500.8	1460.9	1406.3	1358.8	1319.0	1307.0
172.5°	1535.5	1533.6	1527.8	1492.5	1468.5	1423.5	1383.8	1347.4	1339.7
175°	1504.4	1504.4	1508.5	1486.6	1478.6	1441.3	1413.2	1391.2	1379.2
177.5°	1468.5	1469.6	1478.3	1477.2	1478.3	1457.0	1448.9	1428.1	1426.0
180°	1460.9	1460.9	1460.9	1460.9	1460.9	1460.9	1460.9	1460.9	1460.9

(END OF REPORT)