

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: P522434

Luminaire Tested: **SQW-F-0U-100D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522434  
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-0U-100D-92765-1D-UNV-STD-W-4 (3500K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

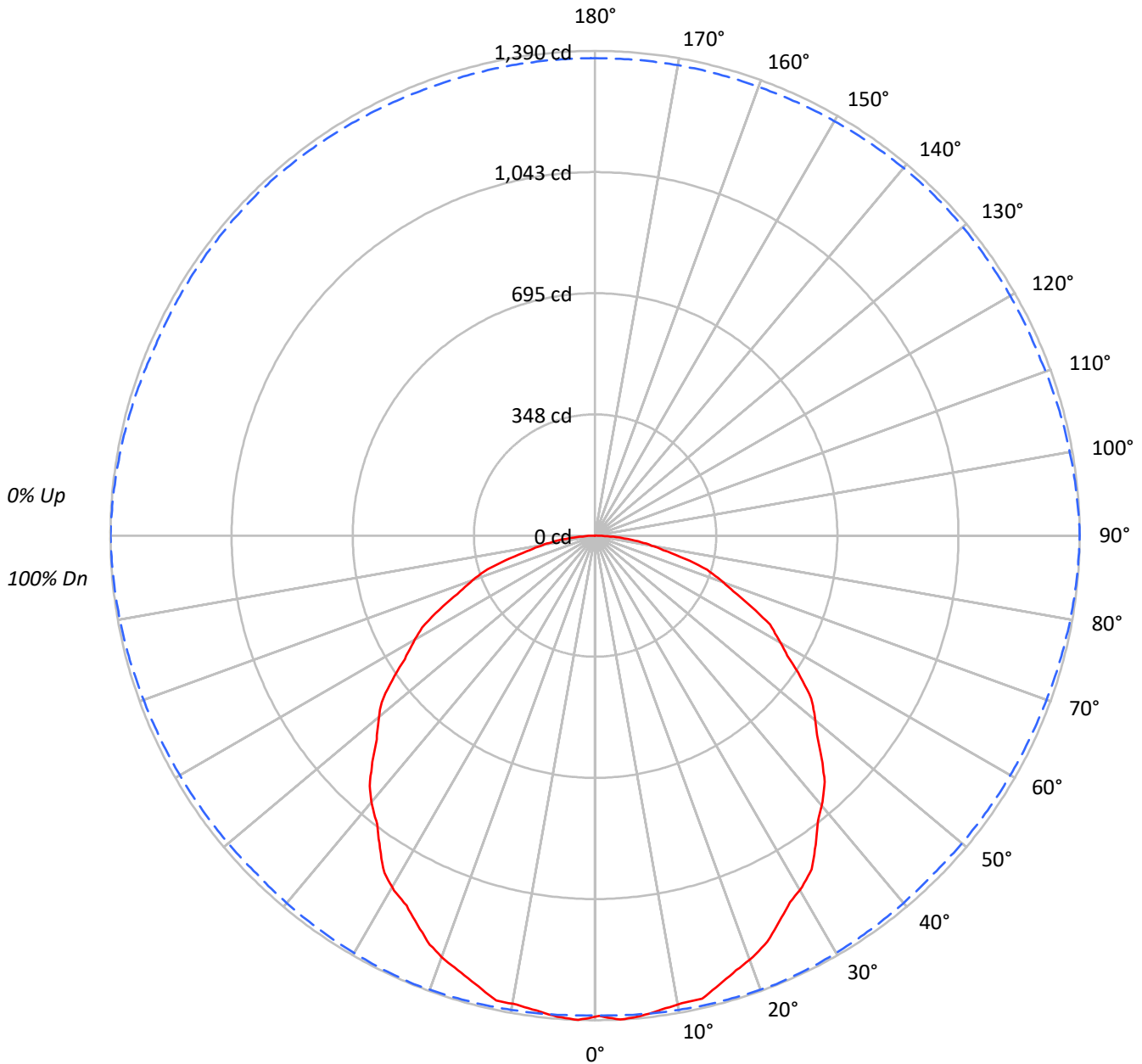
Lumens per Lamp: N/A  
Luminaire Lumens: 3851.6 lumens  
Efficiency: N/A  
Efficacy: 86.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 44.5  
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 90° Lateral      - - - Horizontal Cone Through 2.5° 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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	109	104	100	96	106	102	98	94	97	94	91	94	91	88	90	88	86	84				84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70				70
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59				59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50				50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43				43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38				38
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	33				33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30				30
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27				27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24				24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	22249	22249	22249
5°	22512	22431	22091
10°	22281	22363	22051
15°	22365	22332	21914
20°	21838	22182	21409
25°	21806	21859	21057
30°	21533	21813	20844
35°	21031	21465	20479
40°	20824	21182	20065
45°	20619	20801	19705
50°	19894	20522	19140
55°	19705	20127	18466
60°	18826	19536	17793
65°	17994	18911	16886
70°	17183	18033	15767
75°	15970	16594	14223
80°	13668	14505	11901
85°	10189	11300	8151



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.4	3.4
10°-20°	373.0	9.7
20°-30°	559.9	14.5
30°-40°	669.3	17.4
40°-50°	688.8	17.9
50°-60°	620.1	16.1
60°-70°	470.9	12.2
70°-80°	268.7	7.0
80°-90°	70.3	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1063.4	27.6
0°-40°	1732.7	45.0
0°-60°	3041.6	79.0
0°-90°	3851.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3851.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1378	1378	1378	1378	1378	
5°	1389	1378	1384	1360	1363	131
15°	1338	1330	1336	1317	1311	374
25°	1224	1231	1227	1214	1182	562
35°	1067	1093	1089	1065	1039	672
45°	903	910	911	891	863	690
55°	700	712	715	686	656	620
65°	471	484	495	461	442	468
75°	256	263	266	243	228	268
85°	55	63	61	55	44	68
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1378.0	1378.0	1378.0	1378.0	1378.0	1378.0	1378.0	1378.0	1378.0
2.5°	1376.4	1387.4	1372.4	1376.7	1390.0	1373.6	1378.0	1370.0	1369.2
5°	1389.0	1372.4	1378.0	1370.3	1384.0	1371.3	1360.0	1374.7	1363.0
7.5°	1365.4	1354.6	1376.6	1365.6	1372.8	1364.2	1365.4	1357.2	1357.0
10°	1359.0	1352.2	1359.0	1359.1	1364.0	1352.3	1351.0	1342.1	1345.0
12.5°	1340.6	1350.2	1339.8	1352.8	1363.2	1342.9	1335.0	1338.1	1343.4
15°	1338.0	1335.1	1330.0	1326.2	1336.0	1312.5	1317.0	1308.1	1311.0
17.5°	1297.4	1302.9	1305.4	1302.2	1311.0	1289.7	1284.6	1284.6	1286.0
20°	1271.0	1282.7	1291.0	1282.2	1291.0	1274.4	1271.0	1258.7	1246.0
22.5°	1256.6	1254.3	1271.0	1253.5	1265.4	1244.9	1254.2	1232.8	1239.6
25°	1224.0	1214.2	1231.0	1221.1	1227.0	1210.4	1214.0	1187.9	1182.0
27.5°	1180.6	1180.6	1190.8	1186.7	1190.8	1177.5	1173.8	1149.9	1147.6
30°	1155.0	1147.2	1166.0	1157.3	1170.0	1138.7	1141.0	1121.9	1118.0
32.5°	1120.6	1123.7	1136.4	1125.3	1140.4	1110.7	1116.2	1086.9	1091.6
35°	1067.0	1072.9	1093.0	1078.2	1089.0	1071.4	1065.0	1045.8	1039.0
37.5°	1032.8	1023.8	1033.6	1034.5	1037.8	1018.4	1011.4	988.2	990.4
40°	988.0	986.0	1000.0	1004.0	1005.0	986.4	981.0	953.0	952.0
42.5°	947.2	949.2	960.8	965.6	965.8	947.2	946.6	916.3	920.0
45°	903.0	900.1	910.0	909.0	911.0	891.4	891.0	862.0	863.0
47.5°	833.6	839.9	846.6	848.6	856.2	839.6	827.8	804.7	801.2
50°	792.0	803.7	805.0	814.1	817.0	796.5	787.0	767.9	762.0
52.5°	755.2	761.5	766.6	772.5	777.0	758.0	743.8	725.6	724.4
55°	700.0	696.1	712.0	710.1	715.0	700.3	686.0	665.8	656.0
57.5°	628.6	636.2	639.8	647.3	650.6	634.6	622.0	600.6	599.8
60°	583.0	593.8	595.0	607.9	605.0	591.3	578.0	558.8	551.0
62.5°	541.4	544.3	552.6	561.6	562.6	547.3	537.2	516.5	511.0
65°	471.0	476.9	484.0	496.0	495.0	484.2	461.0	449.8	442.0
67.5°	407.2	409.2	418.8	424.5	428.4	413.5	400.2	384.5	381.2
70°	364.0	362.0	374.0	378.1	382.0	370.3	357.0	342.8	334.0
72.5°	316.8	318.8	327.6	334.1	336.4	324.7	310.6	299.7	294.0
75°	256.0	254.0	263.0	267.0	266.0	257.2	243.0	235.8	228.0
77.5°	188.6	192.5	197.8	201.4	200.0	194.1	183.0	172.1	168.8
80°	147.0	150.9	157.0	158.9	156.0	150.1	143.0	132.9	128.0
82.5°	108.6	110.9	117.0	120.5	116.0	112.5	106.2	98.5	92.8
85°	55.0	57.0	63.0	64.9	61.0	61.0	55.0	47.9	44.0
87.5°	12.8	13.6	18.4	23.9	19.2	20.8	16.0	11.9	8.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)