

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P564720

Luminaire Tested: **SQ4-PW1-075U-050D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564720  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-075U-050D-835-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

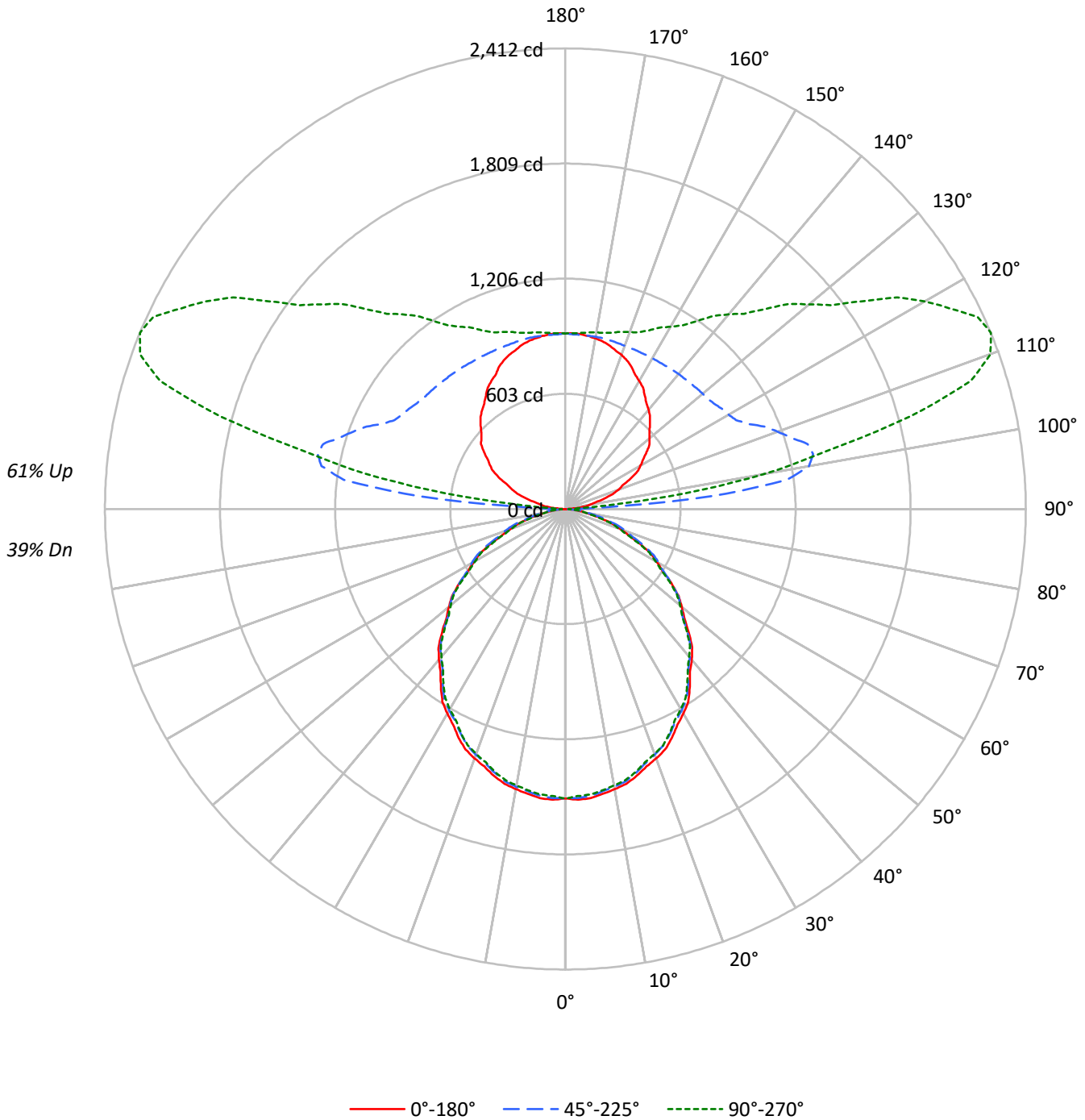
Lumens per Lamp: N/A  
Luminaire Lumens: 9845.9 lumens  
Efficiency: N/A  
Efficacy: 137.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 71.8  
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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	87	84	87	83	80	77	68	66	64	54	52	51	41	40	39	33
2	87	80	74	69	79	73	68	63	59	56	53	47	45	43	36	34	33	28
3	79	70	63	57	72	64	58	53	52	48	44	42	39	36	32	30	28	24
4	73	62	54	48	66	57	50	45	47	42	38	37	34	31	29	26	24	20
5	67	55	47	41	60	50	44	38	42	36	32	33	30	27	26	23	21	18
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	21	19	16
7	57	45	37	31	51	41	34	29	34	29	25	27	24	21	21	19	17	14
8	52	40	33	28	48	37	30	26	31	26	22	25	21	18	20	17	15	12
9	49	37	29	24	44	34	27	23	28	23	20	23	19	16	18	15	13	11
10	45	34	27	22	41	31	25	20	26	21	18	21	18	15	17	14	12	10

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

	0°	45°	90°
0°	6992	6992	6992
5°	7037	6981	6950
10°	6980	6924	6887
15°	6907	6830	6805
20°	6824	6719	6706
25°	6729	6606	6586
30°	6587	6487	6444
35°	6400	6309	6272
40°	6200	6103	6079
45°	5959	5880	5854
50°	5712	5664	5625
55°	5445	5445	5359
60°	5113	5211	5026
65°	4678	4912	4563
70°	4125	4521	4017
75°	3522	4046	3427
80°	2731	3406	2768
85°	1768	2615	2334



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.7	1.4
10°-20°	402.9	4.1
20°-30°	597.7	6.1
30°-40°	699.3	7.1
40°-50°	696.2	7.1
50°-60°	601.2	6.1
60°-70°	432.8	4.4
70°-80°	226.9	2.3
80°-90°	58.6	0.6
90°-100°	433.5	4.4
100°-110°	1192.6	12.1
110°-120°	1231.0	12.5
120°-130°	986.3	10.0
130°-140°	774.7	7.9
140°-150°	593.7	6.0
150°-160°	426.8	4.3
160°-170°	261.0	2.7
170°-180°	88.0	0.9
0°-30°	1143.3	11.6
0°-40°	1842.7	18.7
0°-60°	3140.1	31.9
0°-90°	3858.4	39.2
90°-120°	2857.1	29.0
90°-150°	5211.7	52.9
90°-180°	5988.0	60.8
0°-180°	9845.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1516	1516	1516	1516	1516	
5°	1520	1503	1508	1504	1501	144
15°	1446	1428	1430	1427	1425	408
25°	1322	1300	1298	1290	1294	608
35°	1136	1121	1120	1110	1114	710
45°	913	906	901	899	897	705
55°	677	676	677	668	666	604
65°	429	442	450	432	418	425
75°	198	216	227	212	192	212
85°	33	44	49	47	44	44
90°	2	8	14	18	18	5
95°	64	237	767	328	209	68
105°	213	328	1314	2001	1868	225
115°	377	460	1054	2099	2382	372
125°	520	593	956	1618	1895	464
135°	628	697	929	1308	1480	484
145°	726	775	915	1115	1201	455
155°	821	848	909	1002	1031	377
165°	888	899	913	950	956	250
175°	919	921	915	927	925	87
180°	919	919	919	919	919	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1515.6	1515.6	1515.6	1515.6	1515.6
2.5°	1524.1	1511.6	1515.6	1512.2	1504.9
5°	1519.6	1502.6	1507.6	1503.5	1500.9
7.5°	1504.1	1488.5	1492.1	1487.8	1486.2
10°	1490.2	1474.6	1478.2	1472.8	1470.2
12.5°	1474.2	1457.5	1461.1	1455.7	1454.2
15°	1446.2	1427.9	1430.1	1427.4	1424.8
17.5°	1413.6	1395.0	1395.4	1391.1	1390.6
20°	1390.1	1370.5	1368.7	1363.4	1366.0
22.5°	1364.4	1343.8	1342.0	1334.6	1338.3
25°	1322.0	1299.8	1297.9	1290.0	1293.9
27.5°	1272.8	1250.9	1250.9	1239.8	1244.0
30°	1236.5	1215.6	1217.8	1204.6	1209.8
32.5°	1198.1	1179.3	1180.4	1167.2	1172.4
35°	1136.4	1120.7	1120.3	1109.8	1113.7
37.5°	1073.3	1059.5	1057.3	1051.2	1052.2
40°	1029.5	1017.8	1013.5	1009.5	1009.5
42.5°	983.6	972.9	968.7	965.7	964.6
45°	913.4	905.5	901.3	898.6	897.3
47.5°	843.9	836.6	833.0	831.1	829.8
50°	795.9	790.6	789.2	785.1	783.8
52.5°	747.8	744.7	743.2	738.1	736.8
55°	677.0	675.7	677.0	667.6	666.3
57.5°	603.3	605.4	609.7	597.1	594.0
60°	554.2	559.4	564.8	550.0	544.8
62.5°	504.0	512.3	520.0	503.0	495.7
65°	428.6	441.7	450.0	432.3	418.0
67.5°	356.0	372.2	382.2	363.1	346.9
70°	305.8	324.1	335.2	316.1	297.8
72.5°	262.0	282.4	291.4	273.3	255.0
75°	197.6	215.9	227.0	211.9	192.3
77.5°	140.2	157.4	166.6	153.5	137.3
80°	102.8	121.1	128.2	117.2	104.2
82.5°	72.9	88.1	92.9	86.3	77.4
85°	33.4	43.8	49.4	46.7	44.1
87.5°	8.9	17.4	23.0	23.8	24.9
90°	2.0	7.7	13.7	17.6	17.6
92.5°	27.0	115.3	199.9	76.7	63.0
95°	64.5	236.6	766.6	327.8	209.2
97.5°	105.2	262.4	1169.8	901.3	635.9
100°	134.9	278.3	1296.5	1308.6	1067.7
102.5°	163.1	297.3	1329.4	1623.5	1402.5
105°	213.2	327.9	1314.1	2001.4	1867.5
107.5°	260.9	365.6	1239.4	2186.4	2226.2
110°	295.3	390.9	1183.1	2232.4	2370.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	326.6	419.1	1126.8	2202.8	2412.3
115°	377.4	459.6	1054.0	2098.8	2381.8
117.5°	425.9	501.6	1007.9	1953.0	2273.1
120°	455.6	528.3	987.5	1843.8	2174.6
122.5°	482.2	554.9	973.5	1747.9	2061.9
125°	520.2	592.8	956.3	1617.7	1894.9
127.5°	556.2	625.4	944.9	1508.9	1752.2
130°	574.9	645.7	938.7	1444.3	1666.1
132.5°	596.8	667.6	934.0	1387.5	1587.9
135°	627.7	696.6	928.9	1308.3	1480.3
137.5°	656.7	720.5	924.6	1244.2	1386.1
140°	678.6	737.8	923.0	1201.7	1329.8
142.5°	697.3	752.0	919.9	1163.7	1273.4
145°	725.5	775.2	915.2	1114.7	1200.7
147.5°	755.6	798.4	912.8	1071.2	1140.1
150°	774.4	812.6	911.3	1047.4	1101.0
152.5°	791.6	826.8	909.7	1026.9	1071.2
155°	821.3	848.1	909.3	1001.9	1030.6
157.5°	842.8	864.6	909.3	981.3	1001.2
160°	858.5	875.7	909.3	970.3	985.6
162.5°	871.0	885.1	910.9	960.8	973.1
165°	887.8	899.3	913.2	950.5	956.3
167.5°	899.5	908.3	915.2	941.8	943.3
170°	907.4	913.1	915.2	938.7	938.7
172.5°	913.6	916.3	915.2	933.9	932.4
175°	919.1	921.0	915.2	926.9	925.0
177.5°	920.7	920.7	914.4	923.7	920.7
180°	919.1	919.1	919.1	919.1	919.1

(END OF REPORT)