

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: P562920

Luminaire Tested: **SQ4-PC3-100U-075D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562920  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PC3-100U-075D-835-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

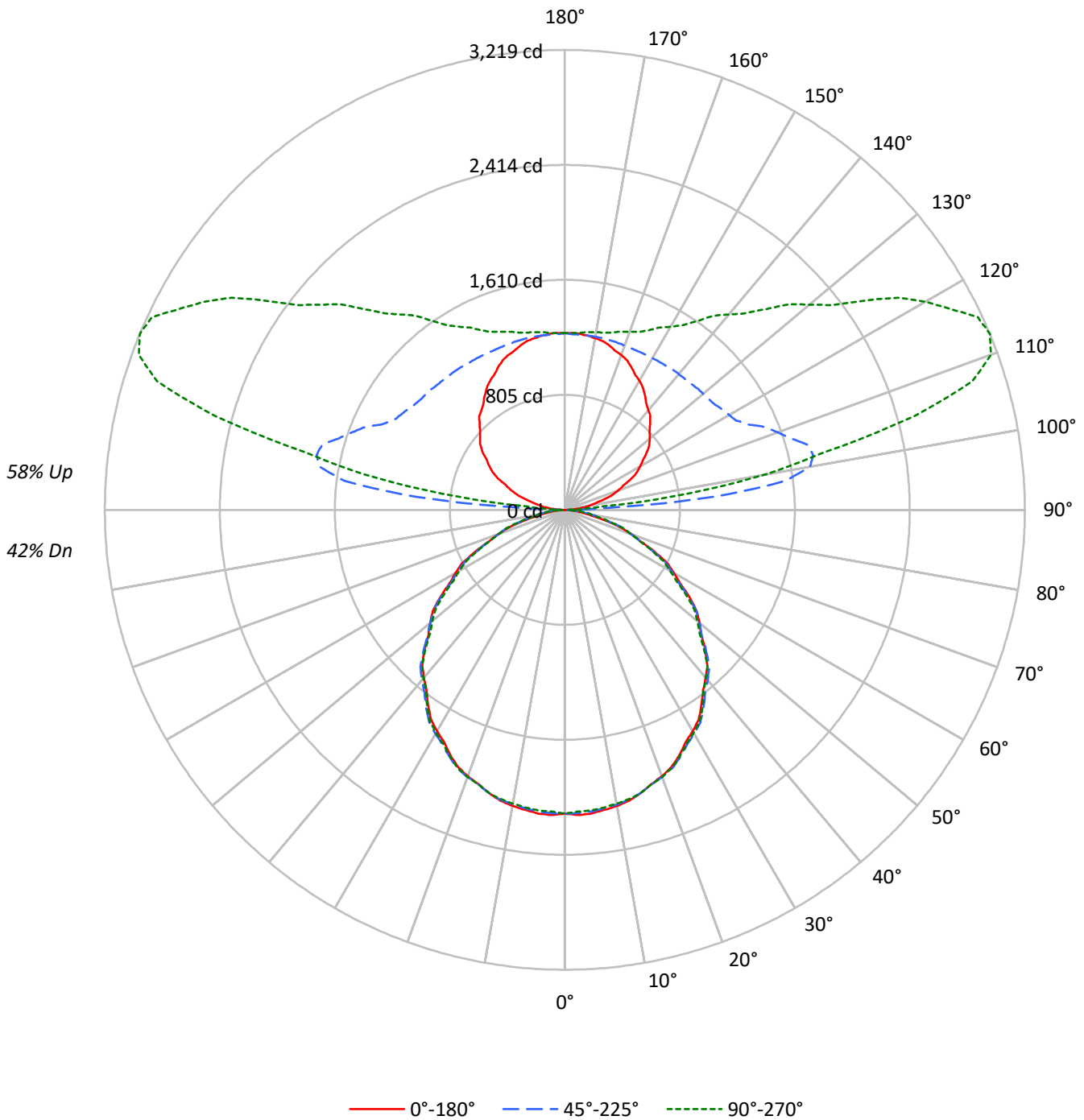
Lumens per Lamp: N/A  
Luminaire Lumens: 13836.3 lumens  
Efficiency: N/A  
Efficacy: 133.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 103.9  
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	96	96	96	96	79	79	79	63	63	63	49	49	49	42
1	96	92	88	85	87	84	81	78	69	67	65	56	54	53	43	42	41	35
2	87	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35	30
3	80	70	63	57	72	64	58	53	53	49	45	43	40	37	34	31	30	25
4	73	62	54	48	66	57	50	45	47	42	38	38	35	32	30	27	25	22
5	67	55	47	41	61	51	44	39	42	37	33	34	30	27	27	24	22	19
6	61	50	42	36	56	46	39	33	38	33	29	31	27	24	24	22	19	16
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17	14
8	53	40	33	28	48	37	31	26	31	26	22	26	22	19	20	18	15	13
9	49	37	29	24	45	34	27	23	29	23	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	20	26	21	18	22	18	15	17	15	13	11

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

	0°	45°	90°
0°	9806	9806	9806
5°	9879	9816	9779
10°	9855	9809	9782
15°	9804	9804	9794
20°	9739	9768	9768
25°	9647	9717	9687
30°	9530	9645	9603
35°	9388	9532	9466
40°	9233	9363	9268
45°	9065	9129	8988
50°	8828	8828	8687
55°	8548	8437	8311
60°	8135	7971	7844
65°	7519	7369	7305
70°	6583	6636	6610
75°	5297	5859	5893
80°	3764	4968	5018
85°	2292	4166	4166



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	201.2	1.5
10°-20°	577.3	4.2
20°-30°	874.2	6.3
30°-40°	1048.1	7.6
40°-50°	1068.7	7.7
50°-60°	932.9	6.7
60°-70°	667.9	4.8
70°-80°	344.0	2.5
80°-90°	89.5	0.6
90°-100°	579.0	4.2
100°-110°	1598.3	11.6
110°-120°	1648.4	11.9
120°-130°	1324.6	9.6
130°-140°	1041.0	7.5
140°-150°	798.4	5.8
150°-160°	573.8	4.1
160°-170°	350.9	2.5
170°-180°	118.3	0.9
0°-30°	1652.7	11.9
0°-40°	2700.7	19.5
0°-60°	4702.3	34.0
0°-90°	5803.7	41.9
90°-120°	3825.6	27.6
90°-150°	6989.6	50.5
90°-180°	8033.0	58.1
0°-180°	13836.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2126	2126	2126	2126	2126	
5°	2133	2112	2120	2114	2112	203
15°	2053	2035	2053	2053	2051	579
25°	1895	1882	1909	1903	1903	872
35°	1667	1663	1693	1681	1681	1043
45°	1390	1386	1399	1382	1378	1070
55°	1063	1049	1049	1033	1033	947
65°	689	673	675	669	669	681
75°	297	311	329	331	331	321
85°	43	66	79	81	79	59
90°	4	8	16	18	20	8
95°	85	313	1050	432	281	91
105°	285	440	1758	2685	2528	303
115°	510	617	1416	2804	3189	501
125°	700	797	1284	2172	2550	623
135°	843	934	1248	1760	1984	652
145°	977	1045	1232	1498	1612	612
155°	1102	1138	1222	1344	1387	508
165°	1193	1208	1228	1276	1286	336
175°	1236	1238	1230	1248	1244	117
180°	1236	1236	1236	1236	1236	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2125.6	2125.6	2125.6	2125.6	2125.6
2.5°	2138.2	2119.7	2125.6	2120.7	2113.0
5°	2133.4	2112.3	2119.7	2113.7	2111.8
7.5°	2118.1	2096.9	2106.7	2102.7	2100.8
10°	2103.9	2082.8	2094.1	2090.1	2088.2
12.5°	2085.0	2065.4	2078.3	2074.4	2074.0
15°	2052.8	2035.4	2052.8	2052.7	2050.8
17.5°	2012.2	1996.4	2015.0	2016.1	2015.0
20°	1983.9	1966.5	1989.8	1987.8	1989.8
22.5°	1949.2	1935.0	1959.9	1954.8	1956.7
25°	1895.3	1881.8	1909.1	1903.2	1903.2
27.5°	1831.5	1821.9	1851.6	1845.3	1845.3
30°	1789.0	1779.4	1810.7	1802.8	1802.8
32.5°	1741.8	1735.2	1765.0	1755.6	1755.6
35°	1667.0	1663.2	1692.6	1680.8	1680.8
37.5°	1589.9	1586.4	1613.1	1598.8	1594.2
40°	1533.2	1531.2	1554.8	1539.1	1539.1
42.5°	1476.5	1474.6	1495.0	1476.1	1476.1
45°	1389.5	1385.6	1399.3	1381.5	1377.7
47.5°	1294.6	1290.8	1299.4	1280.0	1278.1
50°	1230.1	1226.2	1230.1	1212.3	1210.4
52.5°	1163.9	1157.0	1157.7	1139.9	1139.5
55°	1062.8	1049.3	1049.0	1033.3	1033.3
57.5°	955.7	938.0	939.6	926.2	924.2
60°	881.7	862.5	864.0	852.2	850.2
62.5°	809.3	787.0	791.6	778.2	777.8
65°	688.8	673.4	675.1	669.2	669.2
67.5°	573.1	558.9	569.2	564.4	564.1
70°	488.1	478.5	492.0	492.0	490.1
72.5°	409.4	409.0	425.9	425.9	427.1
75°	297.2	310.7	328.7	330.6	330.6
77.5°	198.4	222.2	242.1	242.9	242.5
80°	141.7	168.6	187.0	190.9	188.9
82.5°	96.0	124.5	139.7	143.6	141.7
85°	43.3	66.4	78.7	80.6	78.7
87.5°	13.4	28.0	34.7	35.0	32.3
90°	4.0	7.8	15.8	17.8	19.8
92.5°	35.6	147.8	264.3	96.4	75.2
95°	85.1	313.3	1050.3	431.7	280.9
97.5°	140.8	350.9	1555.9	1197.9	867.6
100°	182.0	373.5	1742.6	1755.0	1426.2
102.5°	221.5	399.1	1779.0	2168.4	1856.6
105°	284.8	439.6	1758.5	2684.6	2527.9
107.5°	352.1	489.8	1660.4	2933.5	2990.8
110°	399.6	523.3	1584.4	2987.1	3172.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	442.3	561.4	1513.2	2944.8	3218.7
115°	510.3	616.7	1416.3	2803.7	3188.6
117.5°	569.7	675.7	1352.6	2605.1	3043.0
120°	609.2	713.7	1327.3	2470.7	2911.7
122.5°	647.2	747.0	1306.7	2345.2	2762.9
125°	700.2	796.9	1283.7	2172.5	2549.7
127.5°	745.3	842.0	1270.3	2026.6	2351.9
130°	775.4	872.1	1264.0	1937.3	2233.2
132.5°	803.9	895.9	1257.6	1862.3	2130.3
135°	842.6	933.5	1248.1	1759.6	1984.0
137.5°	886.2	968.9	1243.4	1673.4	1864.9
140°	909.9	991.1	1240.2	1615.9	1784.2
142.5°	936.8	1011.8	1237.1	1564.8	1713.0
145°	977.1	1044.8	1232.3	1498.0	1612.1
147.5°	1015.9	1075.1	1228.0	1441.6	1530.2
150°	1044.4	1092.8	1226.4	1408.0	1479.6
152.5°	1066.6	1111.8	1224.8	1379.2	1438.4
155°	1101.8	1138.5	1222.4	1344.1	1386.6
157.5°	1134.2	1162.4	1222.8	1318.4	1347.4
160°	1153.2	1178.3	1224.4	1304.0	1325.3
162.5°	1169.0	1191.1	1226.0	1291.2	1307.9
165°	1192.8	1208.2	1228.4	1276.1	1285.7
167.5°	1211.0	1220.2	1230.3	1266.8	1269.9
170°	1220.4	1228.2	1230.3	1262.0	1262.0
172.5°	1228.4	1233.0	1230.3	1255.6	1254.1
175°	1236.3	1238.2	1230.3	1248.1	1244.2
177.5°	1239.4	1237.9	1229.9	1240.9	1237.9
180°	1236.3	1236.3	1236.3	1236.3	1236.3

(END OF REPORT)