

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: P563595

Luminaire Tested: **SQ4-PP3-100U-075D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563595  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-100U-075D-840-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

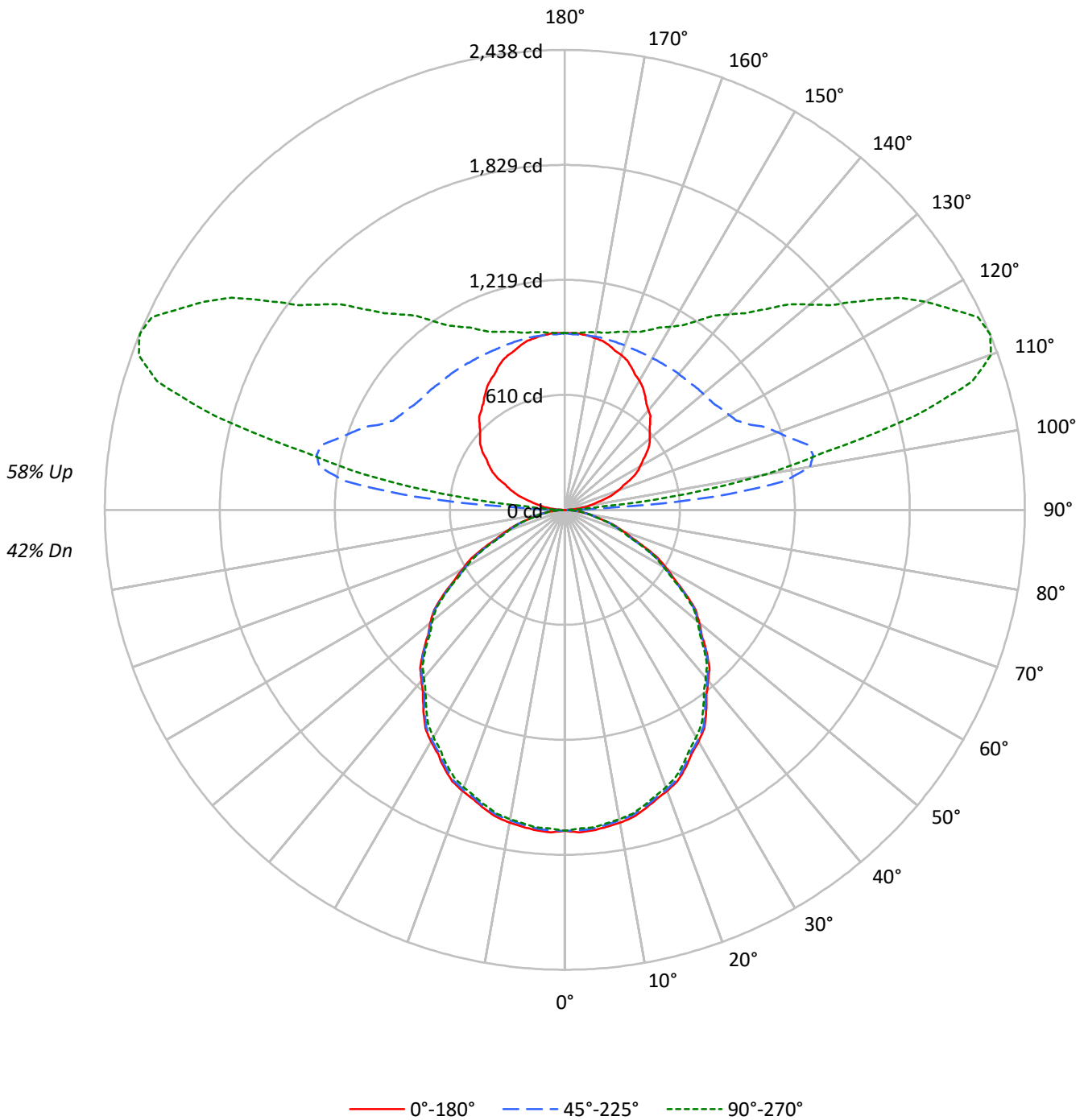
Lumens per Lamp: N/A  
Luminaire Lumens: 10440.1 lumens  
Efficiency: N/A  
Efficacy: 133.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 78  
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	88	84	81	78	69	67	65	56	54	53	43	42	41	35
2	88	80	74	69	80	74	68	64	61	57	54	49	46	44	38	36	35	30
3	80	71	64	58	73	65	59	54	54	49	45	43	40	38	34	32	30	26
4	73	63	55	49	67	57	51	46	48	43	39	39	35	32	30	28	26	22
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	27	25	23	19
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	25	22	20	17
7	57	45	37	32	52	42	35	30	35	29	26	29	25	22	23	20	18	15
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13	11

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

	0°	45°	90°
0°	10461	10461	10461
5°	10538	10473	10436
10°	10520	10445	10399
15°	10450	10393	10337
20°	10381	10322	10244
25°	10258	10187	10086
30°	10068	10015	9888
35°	9805	9737	9614
40°	9491	9431	9324
45°	9232	9167	9076
50°	8900	8844	8758
55°	8439	8328	8264
60°	7684	7463	7426
65°	6769	6487	6465
70°	5843	5602	5602
75°	5031	4960	4888
80°	4435	4488	4382
85°	3472	3790	3790



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.8	1.5
10°-20°	459.2	4.4
20°-30°	687.8	6.6
30°-40°	806.8	7.7
40°-50°	809.3	7.8
50°-60°	690.4	6.6
60°-70°	450.3	4.3
70°-80°	225.9	2.2
80°-90°	64.5	0.6
90°-100°	438.6	4.2
100°-110°	1210.8	11.6
110°-120°	1248.7	12.0
120°-130°	1003.5	9.6
130°-140°	788.6	7.6
140°-150°	604.8	5.8
150°-160°	434.7	4.2
160°-170°	265.8	2.5
170°-180°	89.6	0.9
0°-30°	1307.9	12.5
0°-40°	2114.6	20.3
0°-60°	3614.4	34.6
0°-90°	4355.0	41.7
90°-120°	2898.1	27.8
90°-150°	5295.0	50.7
90°-180°	6085.0	58.3
0°-180°	10440.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1701	1701	1701	1701	1701	
5°	1707	1691	1696	1690	1690	162
15°	1641	1625	1632	1626	1623	463
25°	1512	1494	1501	1488	1486	695
35°	1306	1293	1297	1282	1280	816
45°	1061	1054	1054	1043	1043	817
55°	787	784	777	772	771	699
65°	465	456	446	443	444	464
75°	212	212	209	207	206	230
85°	49	54	54	54	54	58
90°	3	6	12	14	15	6
95°	64	237	796	327	213	69
105°	216	333	1332	2034	1915	230
115°	387	467	1073	2124	2416	380
125°	530	604	972	1646	1932	472
135°	638	707	946	1333	1503	494
145°	740	792	934	1135	1221	463
155°	835	862	926	1018	1050	385
165°	904	915	930	967	974	255
175°	936	938	932	946	942	89
180°	936	936	936	936	936	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1700.8	1700.8	1700.8	1700.8	1700.8
2.5°	1711.5	1697.5	1700.8	1698.2	1691.2
5°	1706.7	1690.7	1696.3	1690.3	1690.3
7.5°	1695.1	1677.6	1683.2	1677.2	1676.9
10°	1684.4	1666.9	1672.4	1666.5	1665.0
12.5°	1668.9	1651.4	1658.1	1651.0	1650.7
15°	1641.1	1625.1	1632.2	1626.2	1623.3
17.5°	1609.8	1592.4	1600.9	1592.5	1591.4
20°	1586.0	1568.5	1577.0	1565.1	1565.1
22.5°	1557.4	1539.9	1549.6	1534.1	1534.1
25°	1511.5	1494.0	1501.0	1487.6	1486.1
27.5°	1456.9	1439.7	1447.1	1431.9	1431.6
30°	1417.6	1401.5	1410.1	1393.7	1392.2
32.5°	1374.6	1359.8	1366.0	1349.6	1348.1
35°	1305.8	1292.6	1296.8	1281.9	1280.4
37.5°	1233.3	1219.9	1224.7	1211.8	1211.3
40°	1182.0	1173.3	1174.6	1164.1	1161.2
42.5°	1134.3	1124.4	1125.7	1115.2	1114.7
45°	1061.3	1054.0	1053.8	1043.4	1043.4
47.5°	983.8	978.3	976.6	968.0	967.7
50°	930.1	925.8	924.2	916.7	915.2
52.5°	874.1	872.0	866.9	860.7	860.4
55°	787.0	784.1	776.6	772.1	770.6
57.5°	692.5	686.7	678.2	671.7	672.9
60°	624.6	618.7	606.7	603.7	603.7
62.5°	559.0	552.0	539.9	535.8	538.1
65°	465.1	456.3	445.7	442.7	444.2
67.5°	379.8	371.9	360.4	360.4	359.2
70°	324.9	320.6	311.5	311.5	311.5
72.5°	276.1	274.0	267.4	267.4	266.2
75°	211.7	211.7	208.7	207.2	205.7
77.5°	158.6	159.2	157.7	156.2	153.5
80°	125.2	128.1	126.7	125.2	123.7
82.5°	94.2	97.1	96.9	94.2	93.9
85°	49.2	53.6	53.7	53.7	53.7
87.5°	13.7	19.0	21.5	21.8	23.3
90°	3.0	5.9	12.0	13.5	15.0
92.5°	27.0	112.0	200.2	73.1	56.9
95°	64.4	237.3	795.7	327.1	212.8
97.5°	106.7	265.8	1178.7	907.5	657.2
100°	137.9	282.9	1320.1	1329.5	1080.4
102.5°	167.8	302.3	1347.7	1642.6	1406.4
105°	215.8	333.0	1332.1	2033.7	1915.0
107.5°	266.7	371.0	1257.8	2222.3	2265.7
110°	302.7	396.5	1200.3	2262.9	2403.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	335.1	425.3	1146.3	2230.8	2438.3
115°	386.6	467.2	1072.9	2123.9	2415.5
117.5°	431.6	511.8	1024.6	1973.5	2305.2
120°	461.5	540.6	1005.5	1871.7	2205.7
122.5°	490.3	565.9	989.9	1776.6	2093.0
125°	530.5	603.7	972.5	1645.8	1931.5
127.5°	564.6	637.9	962.3	1535.2	1781.7
130°	587.4	660.7	957.5	1467.6	1691.8
132.5°	609.0	678.7	952.7	1410.8	1613.8
135°	638.3	707.2	945.5	1333.0	1502.9
137.5°	671.3	734.0	941.9	1267.7	1412.7
140°	689.3	750.8	939.5	1224.1	1351.6
142.5°	709.7	766.5	937.1	1185.4	1297.7
145°	740.2	791.5	933.5	1134.8	1221.2
147.5°	769.6	814.4	930.2	1092.1	1159.2
150°	791.2	827.8	929.0	1066.6	1120.8
152.5°	808.0	842.2	927.8	1044.8	1089.7
155°	834.6	862.5	926.0	1018.2	1050.4
157.5°	859.2	880.6	926.3	998.8	1020.7
160°	873.6	892.6	927.5	987.8	1004.0
162.5°	885.6	902.3	928.7	978.2	990.8
165°	903.6	915.3	930.5	966.7	974.0
167.5°	917.4	924.4	932.0	959.7	962.0
170°	924.5	930.4	932.0	956.0	956.0
172.5°	930.5	934.1	932.0	951.2	950.0
175°	936.5	938.0	932.0	945.5	942.5
177.5°	938.9	937.8	931.7	940.1	937.7
180°	936.5	936.5	936.5	936.5	936.5

(END OF REPORT)