

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: P563597

Luminaire Tested: **SQ4-PP3-100U-075D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563597  
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-930-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

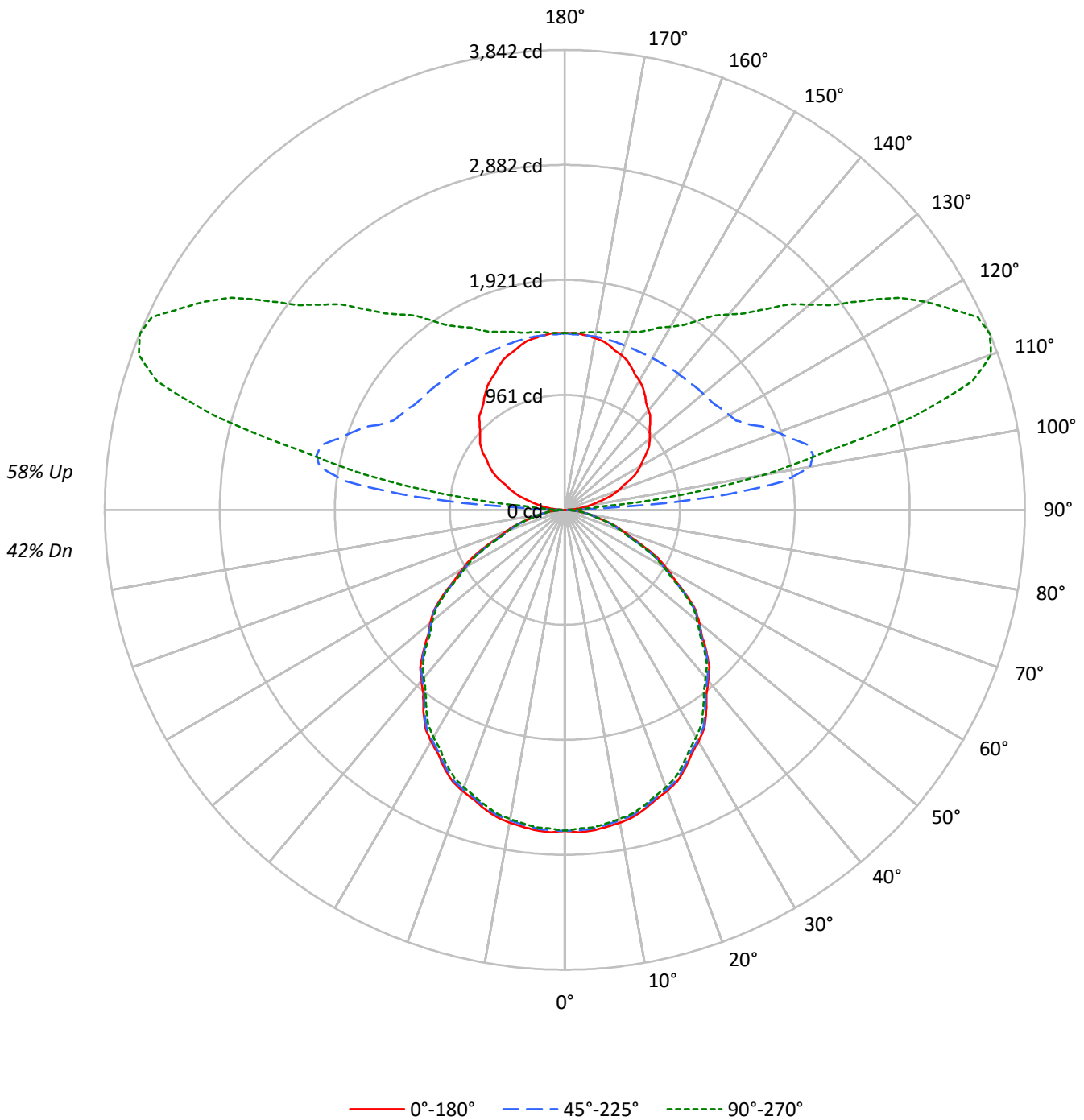
Lumens per Lamp: N/A  
Luminaire Lumens: 16449.9 lumens  
Efficiency: N/A  
Efficacy: 107.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 153.4  
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	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°	8241	8241	8241
5°	8302	8251	8222
10°	8288	8229	8193
15°	8233	8188	8143
20°	8179	8133	8071
25°	8081	8026	7946
30°	7932	7890	7790
35°	7724	7671	7574
40°	7477	7430	7345
45°	7273	7222	7151
50°	7012	6967	6900
55°	6649	6561	6511
60°	6053	5880	5851
65°	5333	5110	5093
70°	4604	4414	4414
75°	3963	3907	3851
80°	3494	3535	3452
85°	2735	2985	2985



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	253.4	1.5
10°-20°	723.6	4.4
20°-30°	1083.8	6.6
30°-40°	1271.2	7.7
40°-50°	1275.2	7.8
50°-60°	1087.8	6.6
60°-70°	709.5	4.3
70°-80°	355.9	2.2
80°-90°	101.6	0.6
90°-100°	691.1	4.2
100°-110°	1907.8	11.6
110°-120°	1967.5	12.0
120°-130°	1581.1	9.6
130°-140°	1242.6	7.6
140°-150°	953.0	5.8
150°-160°	684.9	4.2
160°-170°	418.9	2.5
170°-180°	141.2	0.9
0°-30°	2060.7	12.5
0°-40°	3331.9	20.3
0°-60°	5695.0	34.6
0°-90°	6861.9	41.7
90°-120°	4566.4	27.8
90°-150°	8343.0	50.7
90°-180°	9588.0	58.3
0°-180°	16449.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2680	2680	2680	2680	2680	
5°	2689	2664	2673	2663	2663	255
15°	2586	2561	2572	2562	2558	730
25°	2382	2354	2365	2344	2342	1095
35°	2057	2037	2043	2020	2018	1285
45°	1672	1661	1660	1644	1644	1288
55°	1240	1236	1224	1217	1214	1102
65°	733	719	702	698	700	731
75°	334	334	329	326	324	362
85°	78	84	85	85	85	91
90°	5	9	19	21	24	10
95°	102	374	1254	515	335	109
105°	340	525	2099	3204	3017	362
115°	609	736	1690	3347	3806	599
125°	836	951	1532	2593	3043	744
135°	1006	1114	1490	2100	2368	778
145°	1166	1247	1471	1788	1924	730
155°	1315	1359	1459	1604	1655	606
165°	1424	1442	1466	1523	1535	401
175°	1476	1478	1469	1490	1485	140
180°	1476	1476	1476	1476	1476	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2679.8	2679.8	2679.8	2679.8	2679.8
2.5°	2696.7	2674.7	2679.8	2675.8	2664.8
5°	2689.2	2664.0	2672.8	2663.4	2663.4
7.5°	2670.9	2643.3	2652.1	2642.7	2642.2
10°	2654.0	2626.4	2635.2	2625.8	2623.5
12.5°	2629.6	2602.0	2612.7	2601.4	2600.9
15°	2585.9	2560.6	2571.8	2562.3	2557.7
17.5°	2536.6	2509.0	2522.5	2509.3	2507.4
20°	2499.0	2471.4	2484.9	2466.1	2466.1
22.5°	2453.9	2426.3	2441.7	2417.2	2417.2
25°	2381.5	2354.0	2365.1	2343.9	2341.6
27.5°	2295.6	2268.5	2280.1	2256.1	2255.7
30°	2233.6	2208.3	2221.8	2195.9	2193.6
32.5°	2165.9	2142.5	2152.3	2126.4	2124.1
35°	2057.4	2036.8	2043.3	2019.8	2017.5
37.5°	1943.3	1922.2	1929.7	1909.4	1908.5
40°	1862.5	1848.7	1850.7	1834.2	1829.6
42.5°	1787.3	1771.7	1773.7	1757.2	1756.3
45°	1672.2	1660.8	1660.5	1644.1	1644.1
47.5°	1550.1	1541.4	1538.8	1525.2	1524.8
50°	1465.6	1458.7	1456.2	1444.4	1442.1
52.5°	1377.3	1374.0	1366.0	1356.1	1355.6
55°	1240.1	1235.5	1223.7	1216.6	1214.3
57.5°	1091.2	1082.0	1068.6	1058.3	1060.2
60°	984.1	974.9	955.9	951.2	951.2
62.5°	880.7	869.7	850.7	844.2	847.9
65°	732.8	719.0	702.2	697.6	699.9
67.5°	598.4	586.0	567.9	567.9	566.0
70°	512.0	505.1	490.9	490.9	490.9
72.5°	435.0	431.8	421.3	421.3	419.5
75°	333.5	333.5	328.8	326.4	324.1
77.5°	249.9	250.8	248.5	246.0	241.9
80°	197.3	201.9	199.6	197.2	194.9
82.5°	148.4	153.0	152.7	148.4	148.0
85°	77.5	84.4	84.6	84.6	84.6
87.5°	21.6	29.9	33.8	34.4	36.7
90°	4.7	9.3	18.9	21.3	23.6
92.5°	42.5	176.4	315.4	115.1	89.7
95°	101.5	373.9	1253.7	515.3	335.3
97.5°	168.1	418.8	1857.2	1429.9	1035.6
100°	217.2	445.8	2080.1	2094.8	1702.3
102.5°	264.4	476.4	2123.5	2588.2	2216.1
105°	340.0	524.7	2099.0	3204.4	3017.4
107.5°	420.3	584.6	1981.9	3501.6	3569.9
110°	476.9	624.7	1891.2	3565.5	3787.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	527.9	670.1	1806.2	3515.0	3841.9
115°	609.1	736.1	1690.5	3346.6	3806.0
117.5°	680.0	806.5	1614.5	3109.6	3632.2
120°	727.2	851.9	1584.3	2949.1	3475.5
122.5°	772.5	891.7	1559.7	2799.3	3297.9
125°	835.8	951.2	1532.3	2593.2	3043.4
127.5°	889.6	1005.1	1516.3	2419.0	2807.3
130°	925.5	1041.0	1508.7	2312.4	2665.6
132.5°	959.5	1069.4	1501.2	2222.9	2542.8
135°	1005.8	1114.3	1489.8	2100.3	2368.1
137.5°	1057.7	1156.6	1484.2	1997.4	2226.0
140°	1086.1	1183.0	1480.4	1928.8	2129.7
142.5°	1118.2	1207.8	1476.6	1867.8	2044.7
145°	1166.4	1247.2	1470.9	1788.0	1924.3
147.5°	1212.6	1283.3	1465.7	1720.8	1826.5
150°	1246.6	1304.3	1463.8	1680.6	1766.1
152.5°	1273.1	1327.1	1462.0	1646.3	1717.0
155°	1315.1	1359.0	1459.1	1604.3	1655.1
157.5°	1353.8	1387.5	1459.6	1573.7	1608.3
160°	1376.5	1406.5	1461.5	1556.5	1581.9
162.5°	1395.4	1421.7	1463.4	1541.3	1561.1
165°	1423.7	1442.2	1466.2	1523.1	1534.7
167.5°	1445.4	1456.5	1468.6	1512.1	1515.8
170°	1456.8	1466.0	1468.6	1506.3	1506.3
172.5°	1466.2	1471.7	1468.6	1498.7	1496.9
175°	1475.7	1478.0	1468.6	1489.7	1485.1
177.5°	1479.4	1477.6	1468.1	1481.2	1477.5
180°	1475.7	1475.7	1475.7	1475.7	1475.7

(END OF REPORT)