

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: P564713

Luminaire Tested: **SQ4-PW1-075U-050D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564713  
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-830-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13940.4 lumens  
Efficiency: N/A  
Efficacy: 129.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Indirect

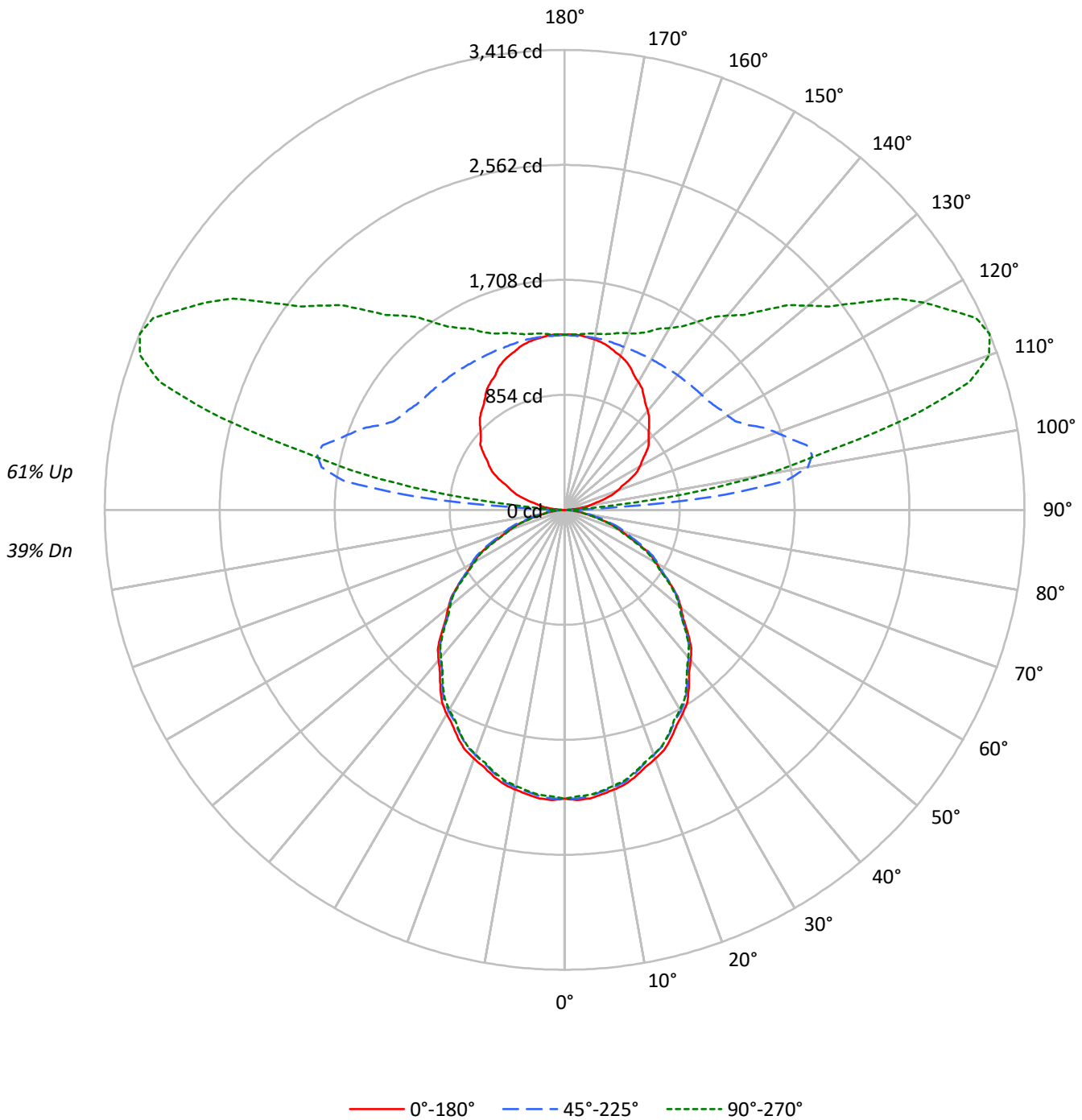
Input Watts (W): 107.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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°	6599	6599	6599
5°	6642	6590	6560
10°	6589	6536	6501
15°	6519	6447	6423
20°	6441	6342	6330
25°	6351	6236	6217
30°	6217	6123	6083
35°	6040	5955	5920
40°	5852	5761	5738
45°	5624	5551	5526
50°	5391	5346	5310
55°	5139	5139	5058
60°	4826	4919	4745
65°	4416	4636	4307
70°	3893	4267	3791
75°	3325	3819	3234
80°	2579	3214	2612
85°	1669	2470	2202



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.1	1.4
10°-20°	570.5	4.1
20°-30°	846.2	6.1
30°-40°	990.2	7.1
40°-50°	985.8	7.1
50°-60°	851.2	6.1
60°-70°	612.7	4.4
70°-80°	321.3	2.3
80°-90°	83.0	0.6
90°-100°	613.7	4.4
100°-110°	1688.6	12.1
110°-120°	1742.9	12.5
120°-130°	1396.4	10.0
130°-140°	1096.8	7.9
140°-150°	840.5	6.0
150°-160°	604.3	4.3
160°-170°	369.5	2.7
170°-180°	124.6	0.9
0°-30°	1618.8	11.6
0°-40°	2608.9	18.7
0°-60°	4445.9	31.9
0°-90°	5462.9	39.2
90°-120°	4045.3	29.0
90°-150°	7379.0	52.9
90°-180°	8477.0	60.8
0°-180°	13940.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2146	2146	2146	2146	2146	
5°	2152	2128	2134	2129	2125	204
15°	2048	2022	2025	2021	2017	577
25°	1872	1840	1838	1826	1832	861
35°	1609	1587	1586	1571	1577	1006
45°	1293	1282	1276	1272	1270	998
55°	958	957	958	945	943	855
65°	607	625	637	612	592	601
75°	280	306	321	300	272	300
85°	47	62	70	66	62	62
90°	3	11	19	25	25	8
95°	91	335	1085	464	296	97
105°	302	464	1861	2834	2644	318
115°	534	651	1492	2972	3372	527
125°	736	839	1354	2290	2683	657
135°	889	986	1315	1852	2096	686
145°	1027	1098	1296	1578	1700	644
155°	1163	1201	1288	1418	1459	534
165°	1257	1273	1293	1346	1354	354
175°	1301	1304	1296	1312	1310	124
180°	1301	1301	1301	1301	1301	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2145.8	2145.8	2145.8	2145.8	2145.8
2.5°	2157.9	2140.2	2145.8	2141.1	2130.7
5°	2151.5	2127.5	2134.5	2128.7	2125.1
7.5°	2129.6	2107.4	2112.6	2106.5	2104.3
10°	2109.9	2087.7	2092.9	2085.3	2081.6
12.5°	2087.2	2063.6	2068.7	2061.1	2058.9
15°	2047.5	2021.7	2024.8	2021.0	2017.3
17.5°	2001.4	1975.2	1975.7	1969.6	1968.9
20°	1968.1	1940.4	1937.9	1930.4	1934.1
22.5°	1931.8	1902.6	1900.1	1889.6	1894.8
25°	1871.7	1840.3	1837.7	1826.5	1832.0
27.5°	1802.1	1771.1	1771.1	1755.4	1761.3
30°	1750.7	1721.1	1724.2	1705.5	1712.9
32.5°	1696.3	1669.6	1671.3	1652.6	1660.0
35°	1608.9	1586.7	1586.2	1571.2	1576.8
37.5°	1519.7	1500.1	1497.0	1488.3	1489.8
40°	1457.7	1441.0	1435.0	1429.3	1429.3
42.5°	1392.6	1377.5	1371.5	1367.3	1365.8
45°	1293.2	1282.1	1276.2	1272.3	1270.5
47.5°	1194.9	1184.5	1179.4	1176.7	1174.8
50°	1126.8	1119.4	1117.4	1111.6	1109.8
52.5°	1058.7	1054.3	1052.3	1045.1	1043.2
55°	958.5	956.7	958.5	945.3	943.4
57.5°	854.2	857.1	863.3	845.4	840.9
60°	784.6	792.0	799.7	778.8	771.4
62.5°	713.5	725.3	736.2	712.1	701.8
65°	606.9	625.4	637.1	612.1	591.8
67.5°	504.0	527.0	541.1	514.1	491.2
70°	433.0	458.8	474.5	447.5	421.6
72.5°	370.9	399.8	412.5	387.0	361.1
75°	279.8	305.7	321.4	300.0	272.2
77.5°	198.5	222.9	235.9	217.3	194.4
80°	145.6	171.5	181.5	166.0	147.5
82.5°	103.2	124.7	131.6	122.2	109.7
85°	47.3	62.1	70.0	66.1	62.4
87.5°	12.7	24.6	32.6	33.8	35.2
90°	2.8	10.9	19.4	24.9	24.9
92.5°	38.2	163.3	283.0	108.6	89.2
95°	91.4	335.0	1085.3	464.1	296.3
97.5°	149.0	371.5	1656.2	1276.1	900.4
100°	191.0	394.1	1835.7	1852.8	1511.7
102.5°	230.9	421.0	1882.2	2298.7	1985.7
105°	301.8	464.2	1860.6	2833.6	2644.1
107.5°	369.3	517.7	1754.8	3095.6	3151.9
110°	418.1	553.4	1675.1	3160.8	3355.7

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	462.4	593.4	1595.3	3118.8	3415.5
115°	534.4	650.8	1492.3	2971.6	3372.3
117.5°	603.0	710.2	1427.0	2765.2	3218.4
120°	645.1	748.0	1398.2	2610.5	3078.8
122.5°	682.8	785.6	1378.3	2474.8	2919.3
125°	736.5	839.4	1353.9	2290.3	2682.9
127.5°	787.4	885.4	1337.8	2136.4	2480.8
130°	814.0	914.2	1329.0	2044.9	2358.9
132.5°	845.0	945.2	1322.3	1964.5	2248.2
135°	888.8	986.2	1315.1	1852.3	2095.9
137.5°	929.7	1020.2	1309.0	1761.6	1962.5
140°	960.7	1044.7	1306.8	1701.3	1882.7
142.5°	987.3	1064.7	1302.4	1647.6	1803.0
145°	1027.2	1097.6	1295.8	1578.2	1700.0
147.5°	1069.8	1130.5	1292.4	1516.7	1614.2
150°	1096.4	1150.6	1290.2	1483.0	1558.8
152.5°	1120.8	1170.6	1288.0	1453.9	1516.7
155°	1162.9	1200.8	1287.5	1418.5	1459.1
157.5°	1193.3	1224.2	1287.5	1389.4	1417.6
160°	1215.5	1239.8	1287.5	1373.8	1395.4
162.5°	1233.2	1253.2	1289.7	1360.4	1377.7
165°	1257.0	1273.2	1293.0	1345.8	1353.9
167.5°	1273.6	1286.1	1295.8	1333.5	1335.6
170°	1284.7	1292.8	1295.8	1329.0	1329.0
172.5°	1293.5	1297.3	1295.8	1322.3	1320.1
175°	1301.3	1304.0	1295.8	1312.3	1309.6
177.5°	1303.5	1303.5	1294.7	1307.8	1303.5
180°	1301.3	1301.3	1301.3	1301.3	1301.3

(END OF REPORT)