

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: P565151

Luminaire Tested: **SQ4-PW1-150U-100D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P565151  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PW1-150U-100D-835-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

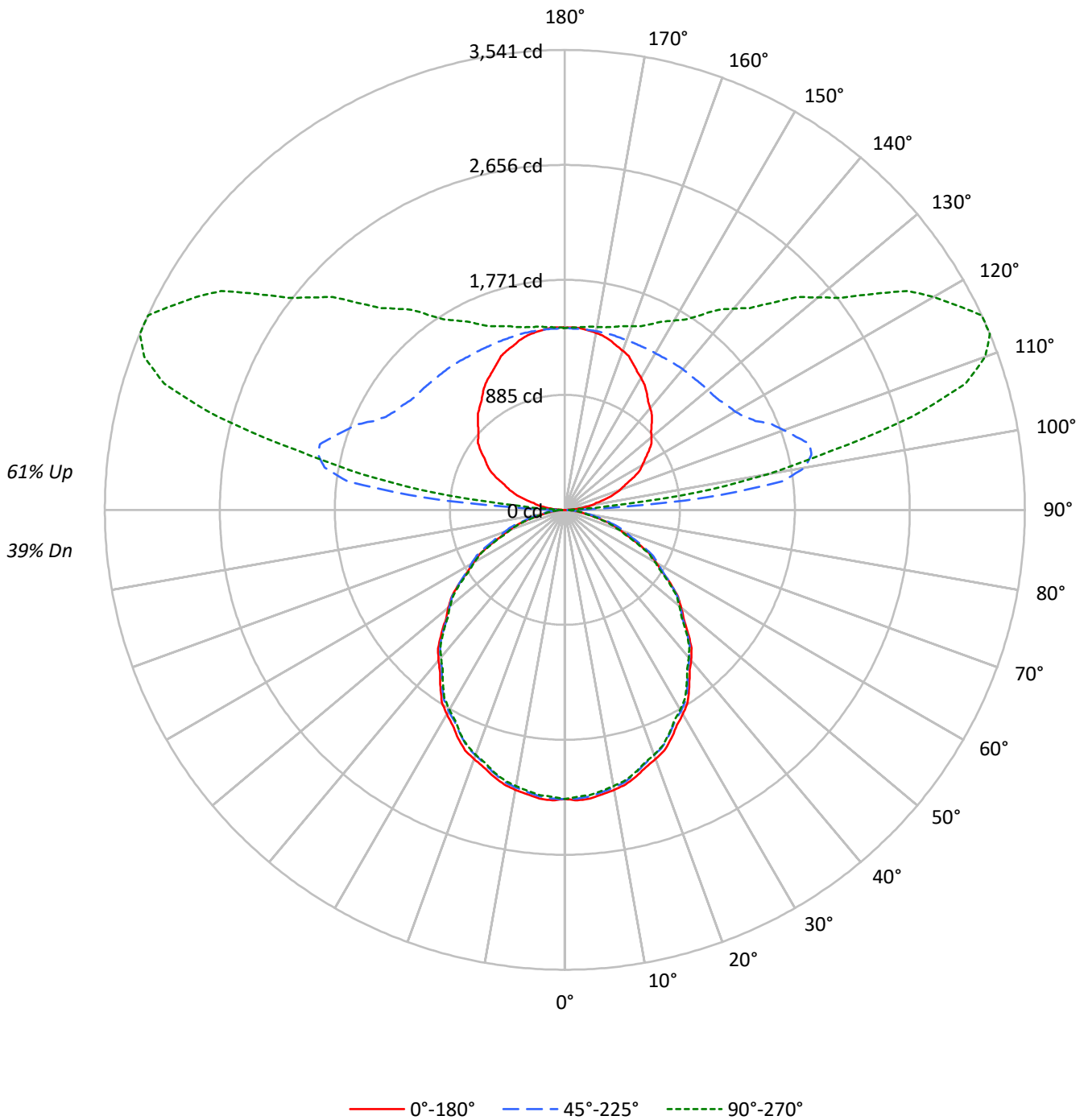
Lumens per Lamp: N/A  
Luminaire Lumens: 14702.6 lumens  
Efficiency: N/A  
Efficacy: 130.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 112.7  
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	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	87	84	86	83	80	77	68	65	63	53	52	51	40	39	39	33
2	87	80	74	69	79	73	67	63	59	56	52	47	44	42	36	34	33	27
3	79	70	63	57	72	64	58	53	52	48	44	42	38	36	32	30	28	23
4	72	62	54	48	66	57	50	45	46	41	38	37	33	31	28	26	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	27	25	23	21	17
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	37	31	51	41	34	29	34	29	25	27	23	20	21	18	16	14
8	52	40	33	27	47	37	30	26	31	26	22	25	21	18	19	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	17	15	17	14	12	10

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

	0°	45°	90°
0°	13692	13692	13692
5°	13780	13672	13611
10°	13671	13560	13487
15°	13526	13376	13326
20°	13364	13159	13133
25°	13178	12938	12898
30°	12899	12704	12620
35°	12533	12356	12282
40°	12142	11952	11905
45°	11669	11516	11465
50°	11185	11091	11017
55°	10664	10664	10495
60°	10012	10205	9844
65°	9163	9620	8935
70°	8076	8853	7866
75°	6899	7923	6711
80°	5349	6670	5419
85°	3458	5124	4566



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.6	1.4
10°-20°	591.8	4.0
20°-30°	877.9	6.0
30°-40°	1027.2	7.0
40°-50°	1022.6	7.0
50°-60°	883.1	6.0
60°-70°	635.6	4.3
70°-80°	333.3	2.3
80°-90°	85.6	0.6
90°-100°	651.3	4.4
100°-110°	1761.1	12.0
110°-120°	1851.5	12.6
120°-130°	1503.9	10.2
130°-140°	1179.7	8.0
140°-150°	905.4	6.2
150°-160°	651.2	4.4
160°-170°	397.8	2.7
170°-180°	134.1	0.9
0°-30°	1679.3	11.4
0°-40°	2706.5	18.4
0°-60°	4612.1	31.4
0°-90°	5666.6	38.5
90°-120°	4263.9	29.0
90°-150°	7852.9	53.4
90°-180°	9036.0	61.5
0°-180°	14702.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2226	2226	2226	2226	2226	
5°	2232	2207	2214	2208	2204	211
15°	2124	2097	2100	2096	2093	599
25°	1942	1909	1906	1895	1900	893
35°	1669	1646	1646	1630	1636	1043
45°	1342	1330	1324	1320	1318	1035
55°	994	992	994	981	979	887
65°	630	649	661	635	614	624
75°	290	317	333	311	282	311
85°	49	64	73	69	65	65
90°	3	9	20	21	20	8
95°	101	355	1083	561	333	106
105°	327	506	1954	2882	2764	345
115°	576	705	1620	3136	3541	569
125°	789	904	1460	2464	2895	703
135°	946	1058	1421	1990	2252	731
145°	1100	1182	1402	1703	1833	688
155°	1242	1290	1389	1528	1578	573
165°	1352	1365	1396	1450	1457	381
175°	1403	1402	1397	1415	1412	133
180°	1402	1402	1402	1402	1402	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2226.1	2226.1	2226.1	2226.1	2226.1
2.5°	2238.6	2220.2	2226.1	2221.1	2210.4
5°	2231.9	2207.0	2214.3	2208.3	2204.5
7.5°	2209.2	2186.2	2191.5	2185.2	2182.9
10°	2188.8	2165.8	2171.1	2163.2	2159.4
12.5°	2165.3	2140.7	2146.0	2138.1	2135.8
15°	2124.1	2097.2	2100.5	2096.5	2092.7
17.5°	2076.2	2049.0	2049.5	2043.3	2042.5
20°	2041.7	2012.9	2010.3	2002.6	2006.4
22.5°	2004.0	1973.7	1971.1	1960.2	1965.6
25°	1941.7	1909.1	1906.4	1894.7	1900.5
27.5°	1869.5	1837.3	1837.3	1821.0	1827.1
30°	1816.2	1785.5	1788.7	1769.3	1776.9
32.5°	1759.7	1732.1	1733.8	1714.3	1722.0
35°	1669.1	1646.0	1645.5	1630.0	1635.7
37.5°	1576.5	1556.2	1552.9	1544.0	1545.5
40°	1512.2	1494.9	1488.6	1482.7	1482.7
42.5°	1444.7	1429.0	1422.7	1418.4	1416.8
45°	1341.5	1330.0	1323.9	1319.9	1318.0
47.5°	1239.5	1228.8	1223.5	1220.7	1218.7
50°	1168.9	1161.3	1159.1	1153.2	1151.3
52.5°	1098.3	1093.7	1091.7	1084.2	1082.2
55°	994.4	992.5	994.4	980.6	978.7
57.5°	886.1	889.2	895.5	877.0	872.4
60°	813.9	821.6	829.6	807.9	800.2
62.5°	740.2	752.5	763.7	738.8	728.0
65°	629.6	648.8	661.0	635.0	613.9
67.5°	522.9	546.7	561.3	533.3	509.5
70°	449.1	476.0	492.3	464.2	437.4
72.5°	384.8	414.7	428.0	401.5	374.6
75°	290.3	317.1	333.4	311.2	282.4
77.5°	205.9	231.2	244.8	225.4	201.6
80°	151.0	177.9	188.3	172.2	153.0
82.5°	107.1	129.3	136.5	126.8	113.8
85°	49.0	64.4	72.6	68.6	64.7
87.5°	13.2	25.1	33.7	34.1	35.3
90°	3.0	8.9	19.6	21.1	19.6
92.5°	42.8	156.1	308.1	133.7	96.9
95°	101.1	354.8	1083.2	560.6	333.4
97.5°	162.3	406.9	1688.4	1397.3	1026.2
100°	208.2	428.0	1876.7	1957.2	1582.5
102.5°	250.4	457.2	1943.1	2381.7	2101.5
105°	327.4	505.9	1953.6	2881.8	2763.8
107.5°	398.6	561.4	1868.3	3193.7	3232.9
110°	454.1	601.6	1792.2	3277.5	3444.1

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	503.6	641.6	1722.2	3260.7	3540.7
115°	576.3	704.6	1620.2	3136.5	3540.7
117.5°	647.5	767.9	1553.0	2946.8	3404.9
120°	690.9	808.9	1513.1	2810.6	3278.2
122.5°	732.0	847.6	1489.0	2664.6	3135.8
125°	789.0	904.1	1460.3	2464.3	2895.0
127.5°	841.5	954.5	1443.4	2300.8	2679.6
130°	870.5	987.0	1436.2	2199.8	2542.0
132.5°	900.6	1016.0	1428.9	2108.6	2423.7
135°	945.9	1058.0	1421.1	1989.8	2252.3
137.5°	991.5	1097.4	1414.5	1893.3	2107.2
140°	1022.8	1121.7	1412.1	1831.2	2021.5
142.5°	1053.0	1145.9	1407.2	1775.2	1941.9
145°	1099.8	1182.4	1401.5	1703.1	1833.0
147.5°	1142.3	1215.5	1394.9	1637.9	1737.6
150°	1173.7	1238.6	1392.4	1602.4	1682.1
152.5°	1202.7	1259.3	1391.2	1569.5	1635.0
155°	1241.6	1290.3	1389.4	1527.8	1578.0
157.5°	1282.0	1315.9	1389.7	1498.8	1531.8
160°	1304.9	1333.0	1390.9	1480.5	1504.1
162.5°	1323.0	1346.3	1392.1	1465.9	1483.6
165°	1351.7	1365.0	1395.5	1449.9	1457.3
167.5°	1371.3	1380.5	1395.8	1436.3	1439.8
170°	1383.4	1387.8	1397.0	1430.2	1430.2
172.5°	1393.0	1393.9	1397.0	1422.9	1421.7
175°	1403.0	1401.5	1397.0	1415.0	1412.1
177.5°	1406.3	1402.8	1396.7	1408.7	1405.1
180°	1401.5	1401.5	1401.5	1401.5	1401.5

(END OF REPORT)