

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: P564479

Luminaire Tested: **SQ4-PR1-150U-100D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564479  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-150U-100D-835-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

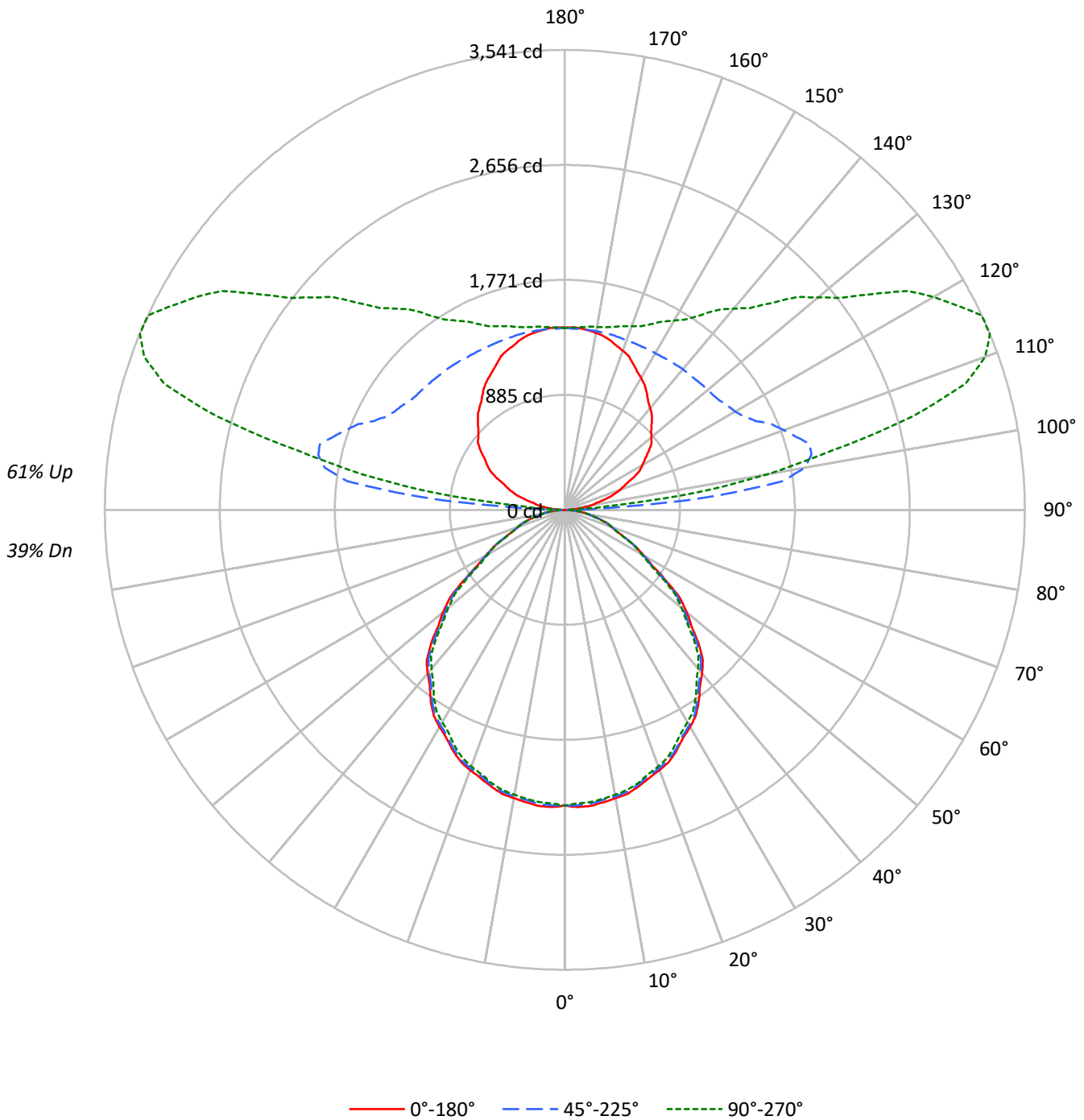
Lumens per Lamp: N/A  
Luminaire Lumens: 14731.3 lumens  
Efficiency: N/A  
Efficacy: 130.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

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	88	84	87	83	80	77	68	66	64	54	52	51	41	40	39	33
2	87	80	74	69	79	73	68	64	60	56	53	47	45	43	36	35	33	28
3	80	70	63	58	72	64	58	53	53	48	45	42	39	36	32	30	28	24
4	73	62	55	49	66	57	50	45	47	42	38	38	34	31	29	27	25	21
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	24	22	18
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	21	19	16
7	57	45	37	32	52	41	34	30	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	37	31	26	31	26	22	25	22	19	20	17	15	13
9	49	37	30	25	45	34	28	23	29	24	20	23	20	17	18	16	14	11
10	46	34	27	22	42	31	25	21	26	21	18	21	18	15	17	14	12	10

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

	0°	45°	90°
0°	14006	14006	14006
5°	14132	14023	13950
10°	14087	13989	13915
15°	14025	13938	13863
20°	13954	13865	13762
25°	13856	13763	13603
30°	13707	13609	13414
35°	13504	13387	13195
40°	13197	13055	12819
45°	12659	12437	12181
50°	11710	11429	11204
55°	10222	9990	9780
60°	8614	8541	8372
65°	7450	7479	7421
70°	6843	6879	6879
75°	6571	6571	6619
80°	6185	6252	6185
85°	4982	5540	5540



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	215.3	1.5
10°-20°	616.1	4.2
20°-30°	929.2	6.3
30°-40°	1107.2	7.5
40°-50°	1091.6	7.4
50°-60°	834.2	5.7
60°-70°	516.3	3.5
70°-80°	293.2	2.0
80°-90°	92.1	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	6.1
150°-160°	651.2	4.4
160°-170°	397.8	2.7
170°-180°	134.1	0.9
0°-30°	1760.7	12.0
0°-40°	2867.9	19.5
0°-60°	4793.7	32.5
0°-90°	5695.3	38.7
90°-120°	4263.9	28.9
90°-150°	7852.9	53.3
90°-180°	9036.0	61.3
0°-180°	14731.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2277	2277	2277	2277	2277	
5°	2289	2264	2271	2263	2259	217
15°	2202	2180	2189	2181	2177	622
25°	2042	2017	2028	2006	2004	940
35°	1798	1777	1783	1759	1757	1122
45°	1455	1436	1430	1404	1400	1115
55°	953	938	932	916	912	854
65°	512	508	514	510	510	519
75°	276	276	276	278	278	292
85°	71	74	78	78	78	82
90°	3	9	20	21	20	10
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°	2277.1	2277.1	2277.1	2277.1	2277.1
2.5°	2291.2	2271.2	2277.1	2272.1	2261.4
5°	2288.8	2263.9	2271.2	2263.2	2259.4
7.5°	2271.2	2246.6	2253.9	2246.0	2243.7
10°	2255.5	2232.5	2239.8	2231.9	2228.0
12.5°	2238.2	2213.7	2222.5	2213.0	2209.2
15°	2202.5	2179.5	2188.8	2180.9	2177.0
17.5°	2163.3	2138.8	2148.0	2138.9	2133.9
20°	2131.9	2108.9	2118.2	2104.4	2102.5
22.5°	2097.4	2074.4	2083.7	2065.2	2064.8
25°	2041.7	2016.8	2028.0	2006.4	2004.4
27.5°	1975.4	1952.4	1961.7	1939.7	1937.4
30°	1929.9	1906.9	1916.2	1892.6	1888.7
32.5°	1878.1	1856.6	1864.4	1840.8	1838.5
35°	1798.5	1777.4	1782.8	1759.2	1757.3
37.5°	1707.9	1688.7	1691.8	1665.9	1664.0
40°	1643.6	1624.4	1625.9	1598.4	1596.5
42.5°	1573.0	1553.8	1552.2	1524.7	1522.7
45°	1455.3	1436.1	1429.8	1404.2	1400.4
47.5°	1321.1	1301.9	1290.1	1269.3	1266.6
50°	1223.8	1204.7	1194.4	1176.6	1170.9
52.5°	1118.7	1099.5	1090.9	1074.7	1068.9
55°	953.2	937.8	931.6	915.8	912.0
57.5°	795.9	785.5	783.7	768.4	766.9
60°	700.2	694.4	694.3	680.6	680.6
62.5°	618.6	614.4	617.4	608.4	606.8
65°	511.9	508.1	513.9	509.9	509.9
67.5°	427.6	427.6	431.1	429.5	429.5
70°	380.5	380.5	382.5	382.5	382.5
72.5°	338.1	336.6	341.7	341.6	340.1
75°	276.5	276.5	276.5	278.5	278.5
77.5°	215.3	215.7	217.3	216.9	215.3
80°	174.6	176.5	176.5	174.6	174.6
82.5°	133.8	135.7	135.7	135.3	133.8
85°	70.6	74.4	78.5	78.5	78.5
87.5°	21.0	28.3	35.3	35.6	33.7
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)