

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: P565127

Luminaire Tested: **SQ4-PW1-150U-075D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P565127  
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-075D-835-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

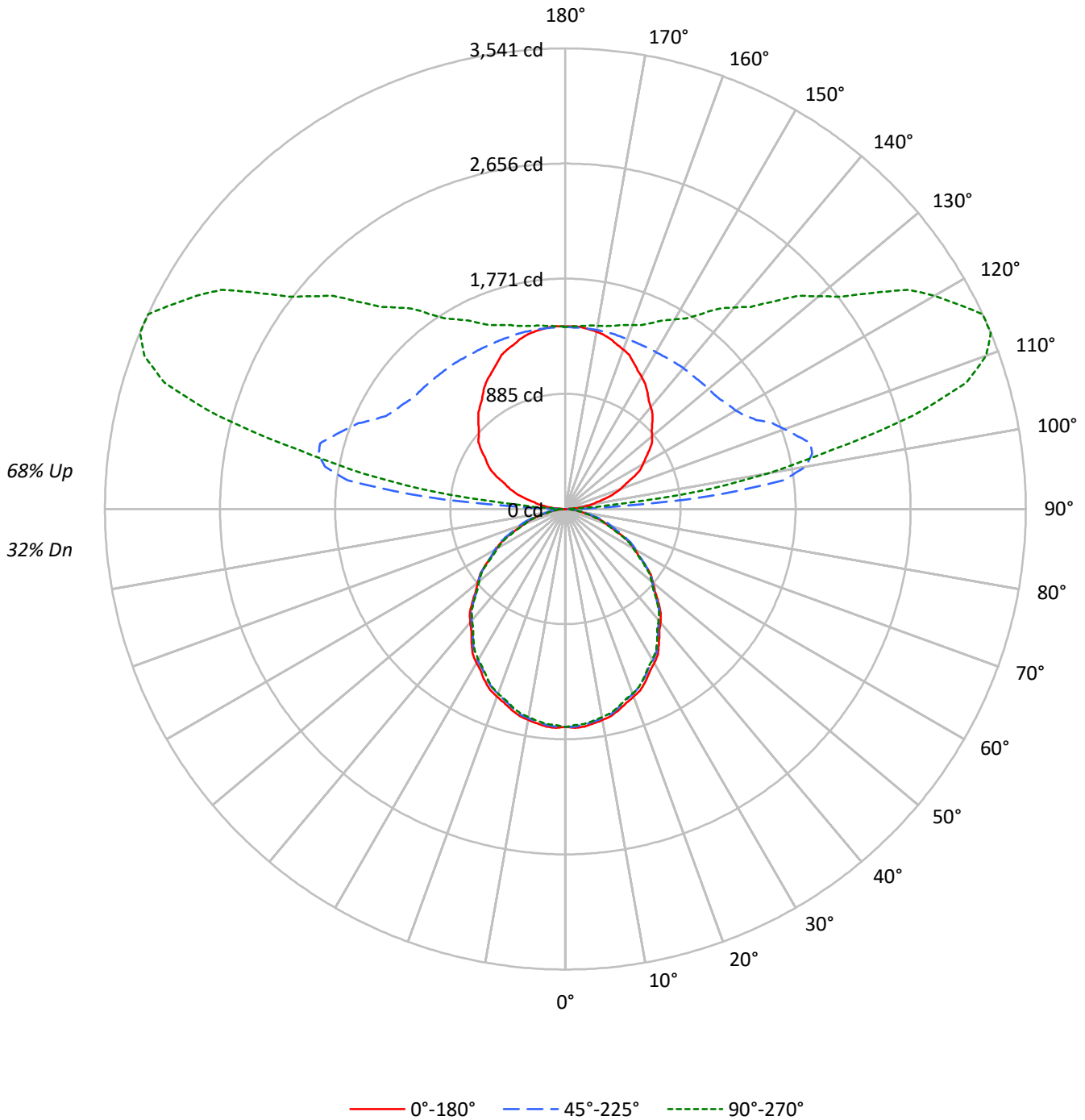
Lumens per Lamp: N/A  
Luminaire Lumens: 13301.4 lumens  
Efficiency: N/A  
Efficacy: 136.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 97.8  
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				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	103	103	103	103	93	93	93	93	73	73	73	56	56	56	40	40	40	32		
1	94	90	86	83	84	81	78	75	64	62	60	49	48	46	35	34	34	27		
2	85	78	72	67	77	71	66	61	56	53	50	43	41	39	31	30	28	23		
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	27	26	24	19		
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	22	21	17		
5	65	54	46	40	59	49	42	37	39	34	31	30	27	24	22	20	18	14		
6	60	48	41	35	54	44	37	32	35	30	27	27	24	21	20	18	16	13		
7	55	44	36	30	50	40	33	28	32	27	23	25	21	19	18	16	14	11		
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	14	13	10		
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	15	13	11	9		
10	44	33	26	21	40	30	24	20	24	20	16	19	16	13	14	12	10	8		

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

	0°	45°	90°
0°	10305	10305	10305
5°	10372	10289	10244
10°	10289	10205	10150
15°	10180	10067	10029
20°	10058	9903	9884
25°	9917	9737	9707
30°	9708	9561	9498
35°	9432	9299	9244
40°	9138	8996	8960
45°	8782	8667	8628
50°	8419	8348	8291
55°	8026	8026	7899
60°	7536	7681	7408
65°	6896	7239	6724
70°	6079	6663	5920
75°	5193	5963	5052
80°	4027	5019	4077
85°	2604	3853	3437



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.8	1.2
10°-20°	445.4	3.3
20°-30°	660.7	5.0
30°-40°	773.1	5.8
40°-50°	769.6	5.8
50°-60°	664.6	5.0
60°-70°	478.4	3.6
70°-80°	250.9	1.9
80°-90°	65.1	0.5
90°-100°	651.3	4.9
100°-110°	1761.1	13.2
110°-120°	1851.5	13.9
120°-130°	1503.9	11.3
130°-140°	1179.7	8.9
140°-150°	905.4	6.8
150°-160°	651.2	4.9
160°-170°	397.8	3.0
170°-180°	134.1	1.0
0°-30°	1263.9	9.5
0°-40°	2036.9	15.3
0°-60°	3471.1	26.1
0°-90°	4265.5	32.1
90°-120°	4263.9	32.1
90°-150°	7852.9	59.0
90°-180°	9036.0	67.9
0°-180°	13301.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1675	1675	1675	1675	1675	
5°	1680	1661	1666	1662	1659	159
15°	1599	1578	1581	1578	1575	451
25°	1461	1437	1435	1426	1430	672
35°	1256	1239	1238	1227	1231	785
45°	1010	1001	996	993	992	779
55°	748	747	748	738	737	668
65°	474	488	497	478	462	470
75°	218	239	251	234	213	234
85°	37	48	55	52	49	49
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°	1675.4	1675.4	1675.4	1675.4	1675.4
2.5°	1684.8	1671.0	1675.4	1671.6	1663.6
5°	1679.8	1661.0	1666.5	1662.0	1659.1
7.5°	1662.7	1645.4	1649.4	1644.6	1642.9
10°	1647.3	1630.0	1634.0	1628.1	1625.2
12.5°	1629.6	1611.1	1615.1	1609.2	1607.5
15°	1598.6	1578.4	1580.9	1577.9	1575.0
17.5°	1562.6	1542.1	1542.5	1537.8	1537.2
20°	1536.6	1515.0	1513.0	1507.2	1510.0
22.5°	1508.3	1485.5	1483.5	1475.3	1479.3
25°	1461.3	1436.8	1434.8	1426.0	1430.3
27.5°	1407.0	1382.8	1382.8	1370.5	1375.1
30°	1366.9	1343.8	1346.2	1331.6	1337.3
32.5°	1324.4	1303.6	1304.9	1290.2	1296.0
35°	1256.2	1238.8	1238.4	1226.7	1231.1
37.5°	1186.5	1171.2	1168.8	1162.0	1163.2
40°	1138.1	1125.1	1120.4	1115.9	1115.9
42.5°	1087.3	1075.5	1070.8	1067.5	1066.3
45°	1009.6	1001.0	996.4	993.4	991.9
47.5°	932.9	924.8	920.8	918.7	917.2
50°	879.8	874.0	872.4	867.9	866.5
52.5°	826.6	823.1	821.6	816.0	814.5
55°	748.4	746.9	748.4	738.0	736.6
57.5°	666.9	669.2	674.0	660.0	656.6
60°	612.6	618.4	624.4	608.0	602.2
62.5°	557.1	566.3	574.8	556.0	547.9
65°	473.8	488.3	497.4	477.9	462.0
67.5°	393.5	411.4	422.5	401.4	383.5
70°	338.0	358.2	370.5	349.4	329.2
72.5°	289.6	312.1	322.1	302.1	281.9
75°	218.5	238.7	250.9	234.2	212.6
77.5°	155.0	174.0	184.2	169.6	151.7
80°	113.7	133.9	141.7	129.6	115.1
82.5°	80.6	97.3	102.7	95.4	85.6
85°	36.9	48.4	54.6	51.6	48.7
87.5°	10.1	19.3	26.4	26.7	27.5
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)