

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: P563111

Luminaire Tested: **SQ4-PC3-150U-075D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563111  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PC3-150U-075D-835-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

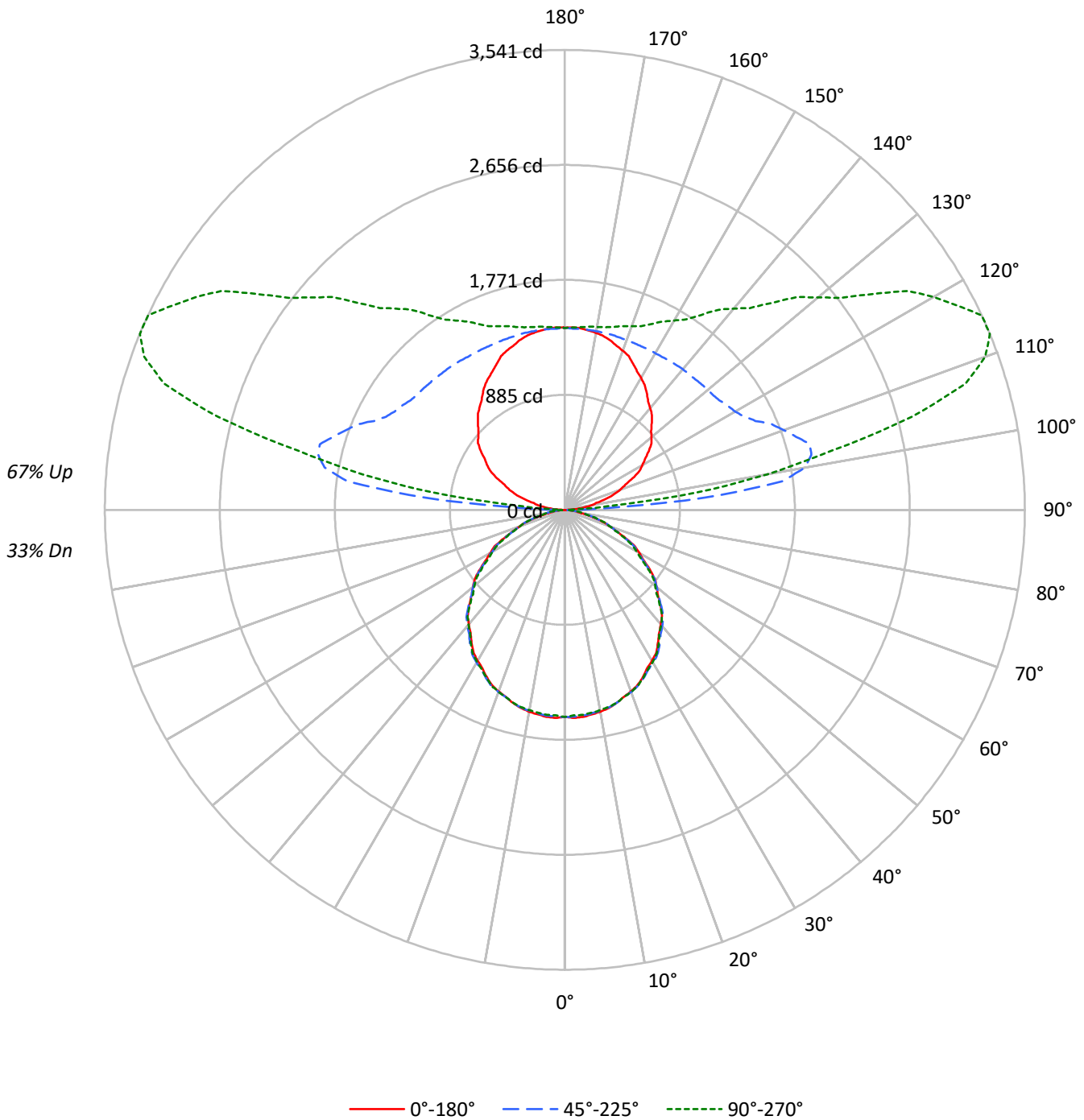
Lumens per Lamp: N/A  
Luminaire Lumens: 13389.7 lumens  
Efficiency: N/A  
Efficacy: 136.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

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				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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	86	83	84	81	78	75	64	62	60	49	48	47	35	35	34	27
2	85	78	72	67	77	71	66	61	56	53	50	43	41	39	31	30	29	23
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	28	26	24	19
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	23	21	17
5	65	54	46	40	58	49	42	37	39	34	31	30	27	24	22	20	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	18	16	13
7	55	43	36	30	50	39	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	20	23	19	16	17	14	13	10
9	48	36	28	24	43	33	26	22	26	22	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10	8

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

	0°	45°	90°
0°	9806	9806	9806
5°	9879	9816	9779
10°	9855	9809	9781
15°	9804	9804	9794
20°	9739	9768	9768
25°	9647	9717	9687
30°	9530	9645	9603
35°	9388	9532	9466
40°	9233	9363	9268
45°	9065	9129	8988
50°	8828	8828	8687
55°	8548	8437	8310
60°	8135	7971	7845
65°	7519	7369	7305
70°	6584	6636	6609
75°	5297	5858	5894
80°	3765	4966	5019
85°	2294	4164	4164



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.9	1.1
10°-20°	433.0	3.2
20°-30°	655.7	4.9
30°-40°	786.1	5.9
40°-50°	801.5	6.0
50°-60°	699.7	5.2
60°-70°	500.9	3.7
70°-80°	258.0	1.9
80°-90°	68.2	0.5
90°-100°	651.3	4.9
100°-110°	1761.1	13.2
110°-120°	1851.5	13.8
120°-130°	1503.9	11.2
130°-140°	1179.7	8.8
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°	1239.5	9.3
0°-40°	2025.5	15.1
0°-60°	3526.7	26.3
0°-90°	4353.7	32.5
90°-120°	4263.9	31.8
90°-150°	7852.9	58.6
90°-180°	9036.0	67.5
0°-180°	13389.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1594	1594	1594	1594	1594	
5°	1600	1584	1590	1585	1584	152
15°	1540	1527	1540	1540	1538	434
25°	1422	1411	1432	1427	1427	654
35°	1250	1247	1269	1261	1261	782
45°	1042	1039	1050	1036	1033	802
55°	797	787	787	775	775	711
65°	517	505	506	502	502	511
75°	223	233	246	248	248	241
85°	32	50	59	60	59	44
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°	1594.2	1594.2	1594.2	1594.2	1594.2
2.5°	1603.6	1589.8	1594.2	1590.5	1584.7
5°	1600.1	1584.2	1589.8	1585.3	1583.8
7.5°	1588.6	1572.7	1580.0	1577.0	1575.6
10°	1577.9	1562.1	1570.6	1567.6	1566.1
12.5°	1563.8	1549.1	1558.8	1555.8	1555.5
15°	1539.6	1526.6	1539.6	1539.5	1538.1
17.5°	1509.2	1497.3	1511.2	1512.1	1511.2
20°	1487.9	1474.9	1492.3	1490.9	1492.3
22.5°	1461.9	1451.2	1469.9	1466.1	1467.5
25°	1421.5	1411.4	1431.8	1427.4	1427.4
27.5°	1373.7	1366.4	1388.7	1384.0	1384.0
30°	1341.8	1334.6	1358.0	1352.1	1352.1
32.5°	1306.3	1301.4	1323.8	1316.7	1316.7
35°	1250.3	1247.4	1269.4	1260.6	1260.6
37.5°	1192.4	1189.8	1209.8	1199.1	1195.6
40°	1149.9	1148.4	1166.1	1154.3	1154.3
42.5°	1107.4	1105.9	1121.2	1107.1	1107.1
45°	1042.1	1039.2	1049.5	1036.2	1033.3
47.5°	971.0	968.1	974.5	960.0	958.6
50°	922.6	919.7	922.6	909.2	907.8
52.5°	873.0	867.8	868.2	854.9	854.7
55°	797.1	787.0	786.8	774.9	774.9
57.5°	716.8	703.5	704.7	694.6	693.2
60°	661.3	646.9	648.0	639.1	637.7
62.5°	607.0	590.2	593.7	583.6	583.4
65°	516.6	505.1	506.3	501.9	501.9
67.5°	429.8	419.2	426.9	423.3	423.0
70°	366.1	358.9	369.0	369.0	367.5
72.5°	307.0	306.7	319.4	319.4	320.3
75°	222.9	233.0	246.5	248.0	248.0
77.5°	148.8	166.7	181.6	182.1	181.9
80°	106.3	126.5	140.2	143.1	141.7
82.5°	72.0	93.4	104.8	107.7	106.3
85°	32.5	49.8	59.0	60.5	59.0
87.5°	10.1	21.6	27.5	27.8	25.2
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)