

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: P562709

Luminaire Tested: **SQ4-PC3-075U-050D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562709  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PC3-075U-050D-930-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

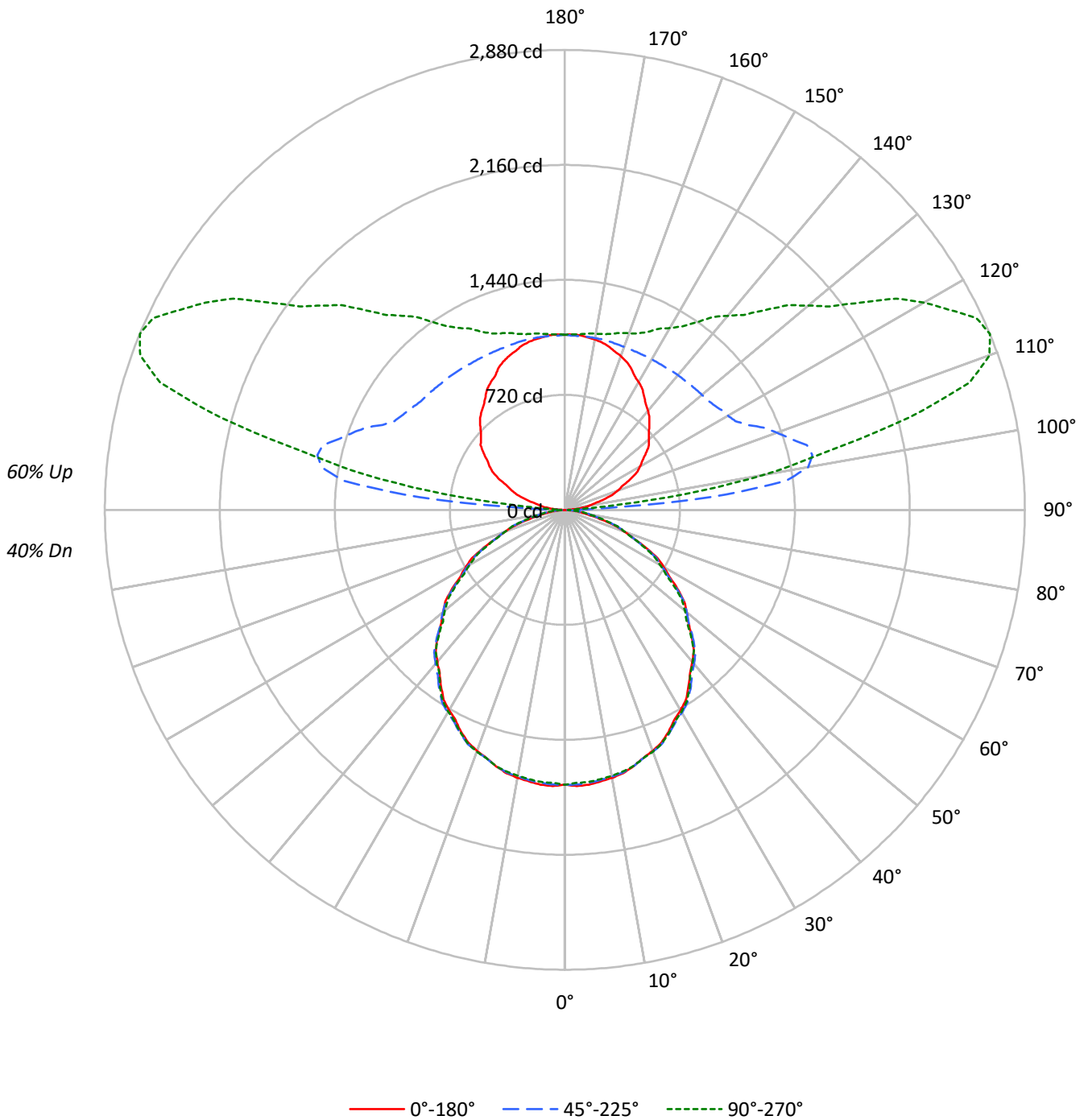
Lumens per Lamp: N/A  
Luminaire Lumens: 11847.8 lumens  
Efficiency: N/A  
Efficacy: 110.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Indirect

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	78	78	78	61	61	61	47	47	47	40
1	96	91	87	84	87	83	80	77	68	66	64	54	53	51	41	40	39	34
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	36	35	33	28
3	79	70	63	57	72	64	58	53	53	48	44	42	39	36	32	30	28	24
4	72	62	54	48	66	57	50	45	47	42	38	37	34	31	29	26	24	20
5	66	55	47	41	60	50	43	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	15
7	56	44	37	31	51	41	34	29	34	29	25	27	23	21	21	19	16	14
8	52	40	33	27	47	37	30	25	31	26	22	25	21	18	20	17	15	12
9	49	37	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13	11
10	45	33	26	22	41	31	25	20	26	21	17	21	17	15	17	14	12	10

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

	0°	45°	90°
0°	5294	5294	5294
5°	5334	5299	5280
10°	5321	5296	5281
15°	5293	5293	5288
20°	5258	5274	5274
25°	5208	5246	5230
30°	5145	5207	5185
35°	5068	5146	5110
40°	4985	5055	5004
45°	4894	4929	4852
50°	4766	4766	4690
55°	4615	4555	4487
60°	4392	4304	4235
65°	4060	3978	3943
70°	3554	3583	3569
75°	2860	3163	3182
80°	2033	2681	2710
85°	1239	2251	2251



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.9	1.4
10°-20°	467.5	3.9
20°-30°	708.0	6.0
30°-40°	848.8	7.2
40°-50°	865.5	7.3
50°-60°	755.5	6.4
60°-70°	540.9	4.6
70°-80°	278.6	2.4
80°-90°	73.2	0.6
90°-100°	517.4	4.4
100°-110°	1423.6	12.0
110°-120°	1469.4	12.4
120°-130°	1177.3	9.9
130°-140°	924.7	7.8
140°-150°	708.6	6.0
150°-160°	509.5	4.3
160°-170°	311.5	2.6
170°-180°	105.0	0.9
0°-30°	1338.4	11.3
0°-40°	2187.2	18.5
0°-60°	3808.2	32.1
0°-90°	4700.8	39.7
90°-120°	3410.4	28.8
90°-150°	6220.9	52.5
90°-180°	7147.0	60.3
0°-180°	11847.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1721	1721	1721	1721	1721	
5°	1728	1711	1717	1712	1710	164
15°	1662	1648	1662	1662	1661	469
25°	1535	1524	1546	1541	1541	706
35°	1350	1347	1371	1361	1361	844
45°	1125	1122	1133	1119	1116	866
55°	861	850	850	837	837	767
65°	558	545	547	542	542	552
75°	241	252	266	268	268	260
85°	35	54	64	65	64	48
90°	2	9	16	21	21	7
95°	77	282	915	391	250	81
105°	254	391	1569	2389	2229	268
115°	450	549	1258	2505	2843	445
125°	621	708	1141	1931	2262	554
135°	749	831	1109	1562	1767	578
145°	866	925	1092	1330	1433	543
155°	980	1012	1085	1196	1230	450
165°	1060	1073	1090	1135	1141	299
175°	1097	1099	1092	1106	1104	104
180°	1097	1097	1097	1097	1097	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1721.4	1721.4	1721.4	1721.4	1721.4
2.5°	1731.6	1716.6	1721.4	1717.4	1711.2
5°	1727.8	1710.6	1716.6	1711.8	1710.2
7.5°	1715.4	1698.2	1706.1	1702.9	1701.3
10°	1703.9	1686.7	1695.9	1692.7	1691.1
12.5°	1688.6	1672.7	1683.2	1680.0	1679.6
15°	1662.4	1648.4	1662.4	1662.4	1660.8
17.5°	1629.6	1616.8	1631.8	1632.8	1631.8
20°	1606.6	1592.6	1611.4	1609.9	1611.4
22.5°	1578.6	1567.1	1587.2	1583.1	1584.7
25°	1534.9	1524.0	1546.1	1541.3	1541.3
27.5°	1483.3	1475.5	1499.5	1494.4	1494.4
30°	1448.9	1441.1	1466.4	1460.0	1460.0
32.5°	1410.6	1405.3	1429.4	1421.8	1421.8
35°	1350.0	1346.9	1370.7	1361.2	1361.2
37.5°	1287.5	1284.7	1306.4	1294.8	1291.1
40°	1241.6	1240.1	1259.2	1246.4	1246.4
42.5°	1195.7	1194.2	1210.7	1195.4	1195.4
45°	1125.3	1122.2	1133.3	1118.8	1115.7
47.5°	1048.5	1045.3	1052.3	1036.6	1035.1
50°	996.2	993.1	996.2	981.8	980.2
52.5°	942.6	937.0	937.5	923.2	922.9
55°	860.7	849.8	849.5	836.8	836.8
57.5°	774.0	759.7	760.9	750.1	748.5
60°	714.1	698.5	699.7	690.1	688.6
62.5°	655.4	637.3	641.1	630.2	629.9
65°	557.9	545.4	546.7	541.9	541.9
67.5°	464.1	452.6	461.0	457.1	456.8
70°	395.3	387.5	398.5	398.4	396.9
72.5°	331.5	331.2	344.9	344.9	345.9
75°	240.7	251.6	266.2	267.8	267.8
77.5°	160.7	180.0	196.0	196.7	196.4
80°	114.8	136.6	151.4	154.6	153.0
82.5°	77.8	100.8	113.2	116.3	114.8
85°	35.1	53.8	63.8	65.3	63.8
87.5°	10.7	23.3	28.8	29.6	27.2
90°	2.3	9.2	16.3	21.0	21.0
92.5°	32.2	137.7	238.6	91.6	75.2
95°	77.0	282.4	915.0	391.3	249.8
97.5°	125.6	313.2	1396.3	1075.9	759.1
100°	161.1	332.2	1547.6	1562.0	1274.5
102.5°	194.7	354.9	1586.8	1937.9	1674.1
105°	254.4	391.4	1568.6	2388.9	2229.1
107.5°	311.4	436.5	1479.4	2609.8	2657.2
110°	352.5	466.6	1412.2	2664.7	2829.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	389.8	500.3	1345.0	2629.3	2879.5
115°	450.5	548.6	1258.1	2505.3	2843.0
117.5°	508.4	598.8	1203.0	2331.2	2713.3
120°	543.9	630.6	1178.8	2200.8	2595.6
122.5°	575.6	662.3	1162.0	2086.4	2461.2
125°	620.9	707.6	1141.4	1930.9	2261.8
127.5°	663.8	746.5	1127.9	1801.1	2091.4
130°	686.3	770.7	1120.4	1724.0	1988.7
132.5°	712.4	796.8	1114.8	1656.2	1895.4
135°	749.3	831.4	1108.7	1561.6	1767.0
137.5°	783.8	860.0	1103.6	1485.1	1654.5
140°	810.0	880.7	1101.7	1434.3	1587.2
142.5°	832.4	897.6	1098.0	1389.0	1520.0
145°	866.0	925.3	1092.4	1330.5	1433.2
147.5°	901.9	953.1	1089.6	1278.7	1360.8
150°	924.3	970.0	1087.7	1250.2	1314.1
152.5°	944.9	986.9	1085.9	1225.7	1278.7
155°	980.4	1012.3	1085.4	1195.9	1230.1
157.5°	1006.0	1032.1	1085.4	1171.4	1195.1
160°	1024.7	1045.2	1085.4	1158.2	1176.4
162.5°	1039.6	1056.5	1087.3	1146.9	1161.5
165°	1059.7	1073.4	1090.1	1134.6	1141.4
167.5°	1073.7	1084.2	1092.4	1124.2	1126.0
170°	1083.1	1089.9	1092.4	1120.4	1120.4
172.5°	1090.5	1093.7	1092.4	1114.8	1112.9
175°	1097.1	1099.3	1092.4	1106.4	1104.1
177.5°	1098.9	1098.9	1091.5	1102.6	1098.9
180°	1097.1	1097.1	1097.1	1097.1	1097.1

(END OF REPORT)