

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: P562717

Luminaire Tested: **SQ4-PC3-075U-050D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562717  
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-940-1D-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: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12871.0 lumens  
Efficiency: N/A  
Efficacy: 119.8 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

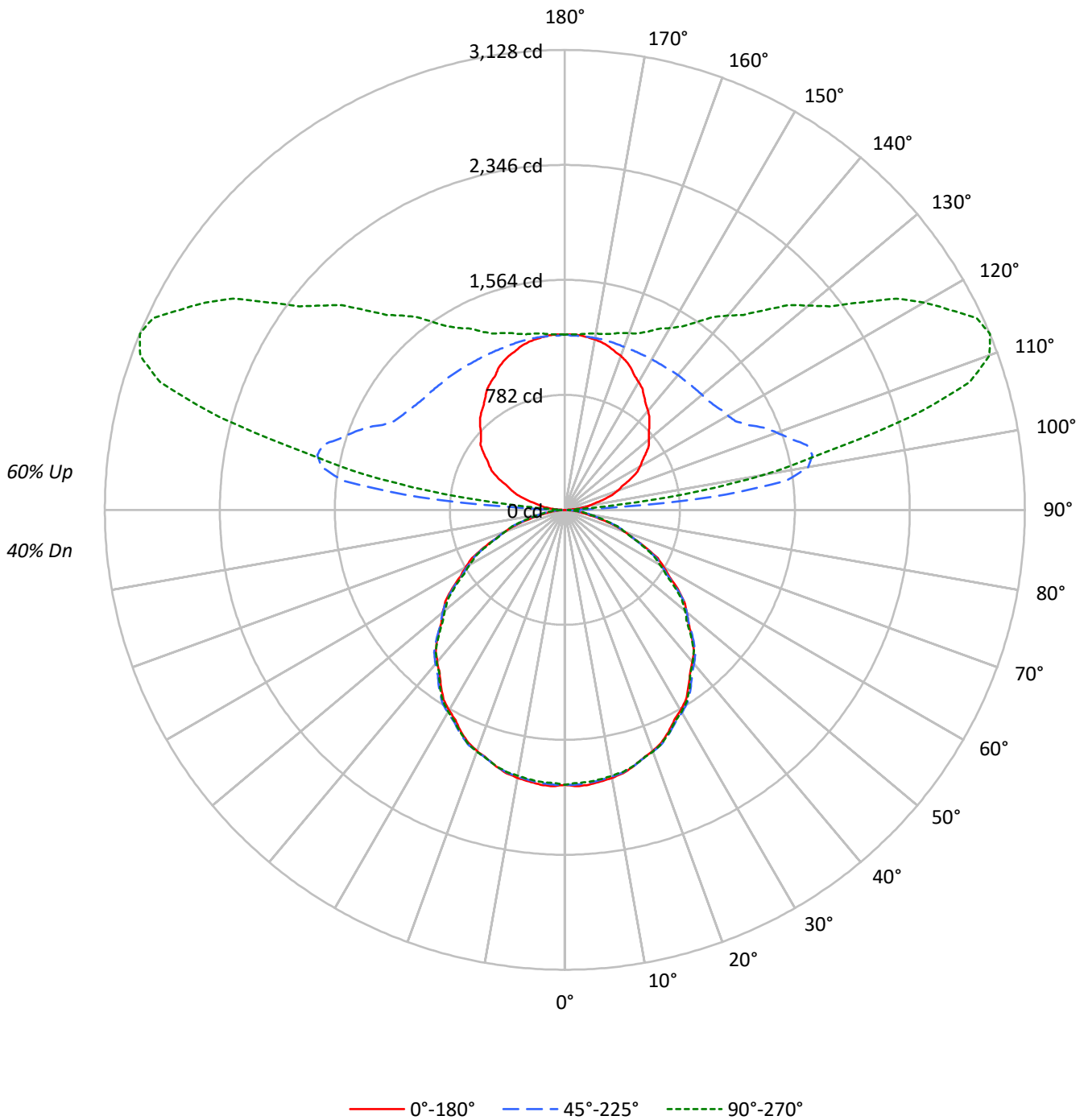
Input Watts (W): 107.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	5751	5751	5751
5°	5795	5757	5736
10°	5780	5754	5737
15°	5750	5750	5745
20°	5712	5729	5729
25°	5658	5699	5682
30°	5590	5657	5633
35°	5506	5591	5552
40°	5415	5492	5436
45°	5317	5354	5272
50°	5178	5178	5095
55°	5013	4948	4874
60°	4771	4676	4601
65°	4410	4322	4284
70°	3861	3893	3877
75°	3107	3436	3457
80°	2209	2913	2943
85°	1344	2445	2445



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.0	1.4
10°-20°	507.9	3.9
20°-30°	769.1	6.0
30°-40°	922.1	7.2
40°-50°	940.2	7.3
50°-60°	820.7	6.4
60°-70°	587.6	4.6
70°-80°	302.6	2.4
80°-90°	79.6	0.6
90°-100°	562.1	4.4
100°-110°	1546.5	12.0
110°-120°	1596.3	12.4
120°-130°	1279.0	9.9
130°-140°	1004.5	7.8
140°-150°	769.8	6.0
150°-160°	553.5	4.3
160°-170°	338.4	2.6
170°-180°	114.1	0.9
0°-30°	1454.0	11.3
0°-40°	2376.1	18.5
0°-60°	4137.0	32.1
0°-90°	5106.8	39.7
90°-120°	3704.9	28.8
90°-150°	6758.2	52.5
90°-180°	7764.0	60.3
0°-180°	12871.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1870	1870	1870	1870	1870	
5°	1877	1858	1865	1860	1858	178
15°	1806	1791	1806	1806	1804	509
25°	1668	1656	1680	1674	1674	767
35°	1467	1463	1489	1479	1479	917
45°	1222	1219	1231	1216	1212	941
55°	935	923	923	909	909	833
65°	606	592	594	589	589	599
75°	262	273	289	291	291	283
85°	38	58	69	71	69	52
90°	2	10	18	23	23	7
95°	84	307	994	425	271	88
105°	276	425	1704	2595	2422	291
115°	489	596	1367	2722	3089	483
125°	674	769	1240	2098	2457	602
135°	814	903	1204	1696	1920	628
145°	941	1005	1187	1445	1557	590
155°	1065	1100	1179	1299	1336	489
165°	1151	1166	1184	1233	1240	324
175°	1192	1194	1187	1202	1199	113
180°	1192	1192	1192	1192	1192	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1870.1	1870.1	1870.1	1870.1	1870.1
2.5°	1881.2	1864.9	1870.1	1865.8	1859.0
5°	1877.0	1858.4	1864.9	1859.6	1858.0
7.5°	1863.5	1844.9	1853.5	1850.0	1848.3
10°	1851.0	1832.4	1842.4	1838.9	1837.2
12.5°	1834.4	1817.1	1828.5	1825.0	1824.7
15°	1806.0	1790.8	1806.0	1806.0	1804.3
17.5°	1770.3	1756.5	1772.8	1773.8	1772.8
20°	1745.4	1730.2	1750.6	1748.9	1750.6
22.5°	1714.9	1702.4	1724.3	1719.8	1721.5
25°	1667.5	1655.6	1679.6	1674.4	1674.4
27.5°	1611.4	1602.9	1629.0	1623.5	1623.5
30°	1574.0	1565.5	1593.0	1586.1	1586.1
32.5°	1532.4	1526.7	1552.9	1544.5	1544.5
35°	1466.6	1463.2	1489.1	1478.7	1478.7
37.5°	1398.7	1395.7	1419.2	1406.6	1402.6
40°	1348.9	1347.2	1367.9	1354.1	1354.1
42.5°	1299.0	1297.3	1315.3	1298.7	1298.7
45°	1222.5	1219.1	1231.1	1215.5	1212.1
47.5°	1139.0	1135.6	1143.2	1126.2	1124.5
50°	1082.2	1078.8	1082.2	1066.6	1064.9
52.5°	1024.0	1017.9	1018.5	1002.9	1002.6
55°	935.0	923.2	922.9	909.1	909.1
57.5°	840.8	825.3	826.6	814.8	813.1
60°	775.7	758.8	760.2	749.7	748.0
62.5°	712.0	692.4	696.4	684.6	684.3
65°	606.0	592.5	593.9	588.7	588.7
67.5°	504.2	491.7	500.8	496.6	496.3
70°	429.4	421.0	432.9	432.8	431.2
72.5°	360.2	359.8	374.7	374.7	375.7
75°	261.5	273.3	289.2	290.9	290.9
77.5°	174.5	195.5	213.0	213.7	213.3
80°	124.7	148.4	164.5	167.9	166.2
82.5°	84.5	109.6	122.9	126.4	124.7
85°	38.1	58.4	69.3	71.0	69.3
87.5°	11.6	25.3	31.3	32.2	29.5
90°	2.5	10.0	17.8	22.8	22.8
92.5°	35.0	149.5	259.2	99.5	81.7
95°	83.7	306.8	994.0	425.1	271.3
97.5°	136.4	340.2	1516.9	1168.8	824.6
100°	175.0	360.9	1681.2	1696.9	1384.5
102.5°	211.5	385.5	1723.8	2105.3	1818.7
105°	276.4	425.2	1704.0	2595.2	2421.7
107.5°	338.3	474.1	1607.2	2835.2	2886.7
110°	382.9	506.9	1534.1	2894.8	3073.4

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	423.5	543.5	1461.1	2856.4	3128.1
115°	489.4	596.0	1366.8	2721.6	3088.6
117.5°	552.3	650.5	1306.9	2532.5	2947.6
120°	590.8	685.1	1280.6	2390.8	2819.8
122.5°	625.3	719.5	1262.3	2266.6	2673.7
125°	674.5	768.7	1240.0	2097.7	2457.2
127.5°	721.2	810.9	1225.3	1956.7	2272.1
130°	745.5	837.3	1217.2	1872.9	2160.5
132.5°	773.9	865.7	1211.1	1799.2	2059.1
135°	814.0	903.2	1204.5	1696.4	1919.6
137.5°	851.5	934.3	1198.9	1613.4	1797.4
140°	879.9	956.8	1196.9	1558.2	1724.3
142.5°	904.3	975.2	1192.8	1509.0	1651.3
145°	940.8	1005.2	1186.7	1445.4	1557.0
147.5°	979.8	1035.4	1183.7	1389.1	1478.4
150°	1004.2	1053.8	1181.7	1358.2	1427.6
152.5°	1026.5	1072.1	1179.6	1331.6	1389.1
155°	1065.0	1099.7	1179.1	1299.2	1336.4
157.5°	1092.9	1121.2	1179.1	1272.5	1298.3
160°	1113.2	1135.5	1179.1	1258.2	1278.0
162.5°	1129.4	1147.8	1181.2	1245.9	1261.8
165°	1151.2	1166.1	1184.2	1232.6	1240.0
167.5°	1166.5	1177.9	1186.7	1221.3	1223.3
170°	1176.6	1184.0	1186.7	1217.2	1217.2
172.5°	1184.7	1188.2	1186.7	1211.0	1209.1
175°	1191.8	1194.3	1186.7	1201.9	1199.4
177.5°	1193.8	1193.8	1185.7	1197.8	1193.8
180°	1191.8	1191.8	1191.8	1191.8	1191.8

(END OF REPORT)