

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: P520310

Luminaire Tested: **SQ4-F-125U-075D-935-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P520310  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G3-1910-536-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-F-125U-075D-935-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

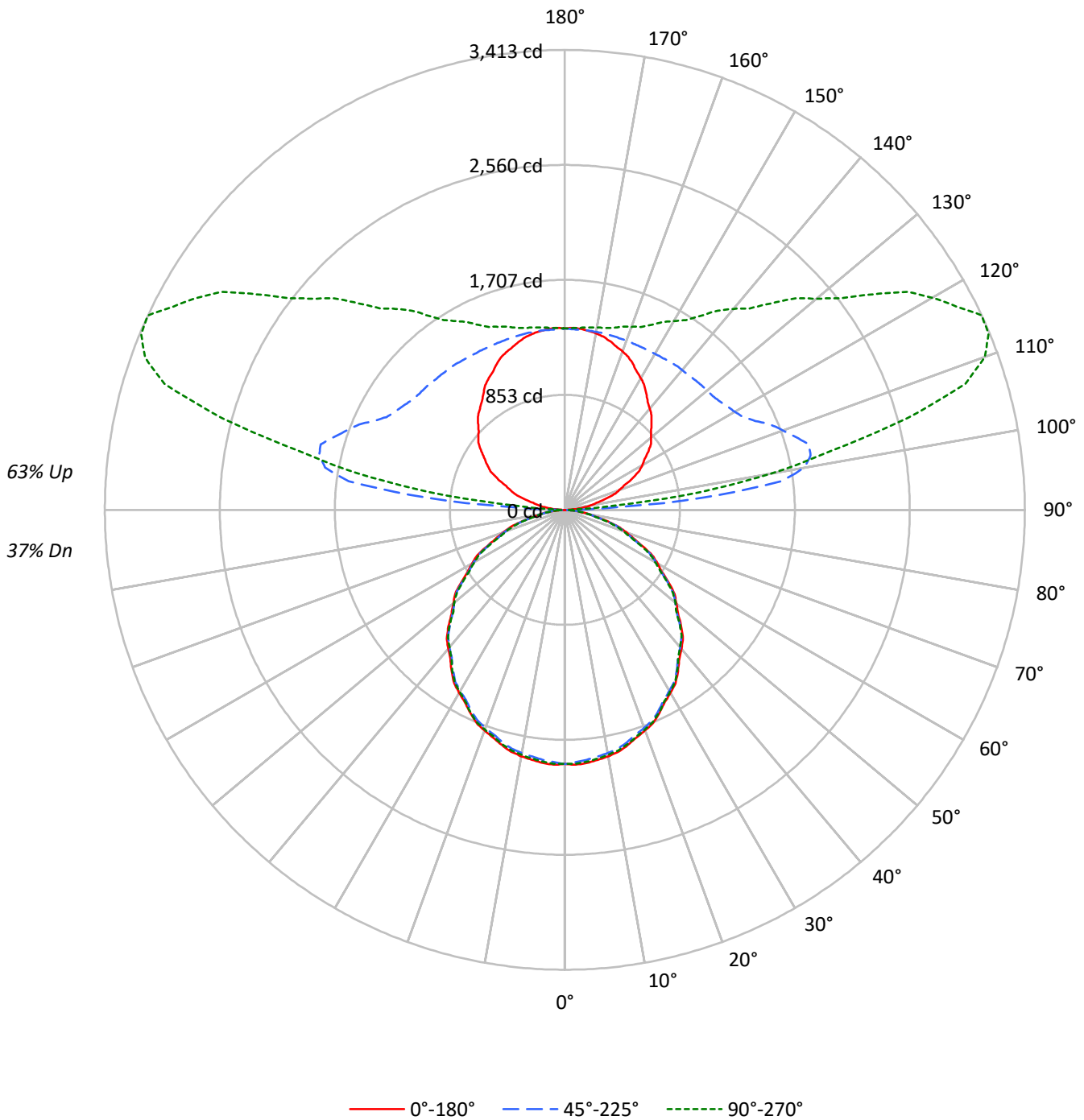
Lumens per Lamp: N/A  
Luminaire Lumens: 13840.2 lumens  
Efficiency: N/A  
Efficacy: 129.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 107.1  
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	94	94	94	94	76	76	76	60	60	60	44	44	44	37
1	95	91	87	83	86	82	79	76	67	64	62	52	51	50	39	38	37	31
2	86	79	73	68	78	72	67	62	58	55	52	46	43	41	34	33	31	26
3	79	69	62	56	71	63	57	52	51	47	43	41	37	35	30	28	27	22
4	72	61	54	48	65	56	49	44	46	41	37	36	33	30	27	25	23	19
5	66	54	47	41	59	50	43	38	41	35	32	32	29	26	24	22	20	16
6	61	49	41	35	55	45	38	32	37	31	27	29	25	22	22	19	17	14
7	56	44	36	31	51	40	33	28	33	28	24	26	23	20	20	17	15	13
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	16	14	11
9	48	36	29	24	44	33	27	22	27	22	19	22	18	16	17	14	12	10
10	45	33	26	21	41	30	24	20	25	20	17	20	17	14	16	13	11	9

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

	0°	45°	90°
0°	8701	8701	8701
5°	8734	8624	8687
10°	8699	8587	8651
15°	8632	8527	8600
20°	8555	8454	8521
25°	8461	8374	8435
30°	8353	8262	8308
35°	8243	8157	8196
40°	8104	8022	8012
45°	7966	7865	7887
50°	7744	7683	7683
55°	7565	7468	7399
60°	7320	7195	7132
65°	6925	6795	6702
70°	6505	6343	6181
75°	5853	5639	5516
80°	4678	4588	4543
85°	2805	3165	3260



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.0	1.3
10°-20°	506.9	3.7
20°-30°	761.5	5.5
30°-40°	908.6	6.6
40°-50°	931.9	6.7
50°-60°	830.3	6.0
60°-70°	619.1	4.5
70°-80°	335.7	2.4
80°-90°	80.3	0.6
90°-100°	629.6	4.5
100°-110°	1695.9	12.3
110°-120°	1779.8	12.9
120°-130°	1444.2	10.4
130°-140°	1132.7	8.2
140°-150°	869.6	6.3
150°-160°	625.2	4.5
160°-170°	382.0	2.8
170°-180°	128.8	0.9
0°-30°	1446.4	10.5
0°-40°	2355.1	17.0
0°-60°	4117.3	29.7
0°-90°	5152.4	37.2
90°-120°	4105.2	29.7
90°-150°	7551.7	54.6
90°-180°	8688.0	62.8
0°-180°	13840.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1886	1886	1886	1886	1886	
5°	1886	1883	1862	1878	1876	179
15°	1808	1804	1785	1799	1801	510
25°	1662	1660	1645	1654	1657	766
35°	1464	1460	1448	1449	1455	914
45°	1221	1216	1206	1206	1209	940
55°	941	939	929	920	920	840
65°	634	634	622	616	614	632
75°	328	322	316	311	310	345
85°	53	56	60	60	62	73
90°	4	10	20	22	22	8
95°	96	342	1032	528	365	100
105°	314	488	1876	2806	2633	330
115°	554	678	1562	3018	3413	545
125°	756	868	1402	2370	2789	675
135°	910	1016	1363	1912	2165	703
145°	1053	1135	1346	1635	1756	660
155°	1195	1238	1334	1467	1514	550
165°	1296	1311	1339	1392	1399	365
175°	1348	1346	1341	1359	1356	128
180°	1346	1346	1346	1346	1346	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1886.2	1886.2	1886.2	1886.2	1886.2
2.5°	1893.0	1889.1	1872.6	1886.2	1884.9
5°	1886.2	1882.9	1862.3	1877.7	1876.0
7.5°	1870.8	1867.2	1846.9	1862.2	1861.9
10°	1857.1	1852.1	1833.2	1848.6	1846.9
12.5°	1839.4	1834.4	1815.4	1830.7	1829.1
15°	1807.5	1804.2	1785.4	1799.1	1800.7
17.5°	1771.3	1764.9	1748.1	1761.5	1763.1
20°	1742.6	1737.6	1722.1	1734.1	1735.8
22.5°	1712.5	1707.4	1692.0	1704.0	1705.7
25°	1662.2	1660.5	1645.2	1653.7	1657.1
27.5°	1607.9	1603.1	1590.7	1597.3	1600.7
30°	1568.2	1564.9	1551.1	1556.3	1559.6
32.5°	1527.1	1525.1	1512.7	1515.3	1519.9
35°	1463.8	1460.4	1448.4	1448.6	1455.3
37.5°	1393.7	1390.1	1380.0	1378.4	1381.0
40°	1345.8	1340.8	1332.1	1330.5	1330.5
42.5°	1296.6	1293.0	1281.5	1278.6	1282.5
45°	1221.0	1216.0	1205.6	1205.7	1209.0
47.5°	1139.2	1137.3	1125.3	1119.8	1121.1
50°	1079.0	1082.4	1070.6	1063.9	1070.6
52.5°	1027.1	1025.1	1014.5	1007.7	1010.3
55°	940.6	938.9	928.6	920.0	920.0
57.5°	853.7	849.3	838.6	832.2	837.2
60°	793.4	791.8	779.8	768.0	773.0
62.5°	733.3	730.3	718.3	710.5	714.1
65°	634.4	634.4	622.5	615.6	614.0
67.5°	547.9	539.9	533.2	524.9	522.6
70°	482.3	475.6	470.3	463.3	458.3
72.5°	417.9	413.9	406.0	399.1	398.2
75°	328.4	321.7	316.4	311.2	309.5
77.5°	233.6	232.2	227.4	224.8	225.7
80°	176.1	176.1	172.7	172.7	171.0
82.5°	124.2	125.5	124.9	122.1	121.7
85°	53.0	56.4	59.8	59.9	61.6
87.5°	10.2	18.3	19.2	19.5	19.5
90°	3.5	10.2	20.5	22.3	22.3
92.5°	41.8	147.8	292.2	140.6	97.7
95°	96.0	342.4	1032.0	527.8	365.2
97.5°	153.2	391.9	1618.7	1352.3	1019.7
100°	197.1	411.8	1805.2	1888.8	1566.9
102.5°	239.7	439.5	1867.0	2290.6	2026.4
105°	313.8	488.0	1875.6	2805.9	2633.2
107.5°	383.6	539.2	1795.6	3070.8	3115.4
110°	430.3	577.8	1722.9	3153.0	3315.6

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	479.6	616.5	1652.9	3134.8	3402.0
115°	553.7	677.8	1561.8	3017.7	3413.2
117.5°	621.2	737.6	1491.1	2830.8	3271.4
120°	665.1	777.4	1455.5	2696.7	3149.3
122.5°	703.5	814.5	1429.5	2559.5	3010.8
125°	756.0	868.3	1402.3	2370.2	2789.2
127.5°	806.4	917.1	1385.3	2203.2	2577.4
130°	836.6	947.2	1378.3	2107.5	2436.1
132.5°	866.7	976.1	1371.5	2023.3	2325.0
135°	910.3	1015.9	1363.0	1912.2	2165.3
137.5°	951.8	1053.0	1358.4	1817.8	2025.7
140°	980.6	1077.8	1354.4	1759.8	1947.5
142.5°	1010.8	1101.3	1351.6	1705.6	1863.8
145°	1052.6	1134.7	1345.8	1634.8	1755.5
147.5°	1097.9	1169.3	1340.0	1575.3	1670.1
150°	1128.0	1190.1	1337.2	1537.9	1616.6
152.5°	1155.4	1209.4	1335.8	1507.3	1571.3
155°	1194.9	1238.5	1333.7	1466.9	1513.8
157.5°	1229.5	1263.4	1334.1	1438.3	1469.9
160°	1251.5	1280.0	1335.5	1421.8	1445.2
162.5°	1270.7	1293.8	1336.9	1407.8	1424.6
165°	1296.1	1311.1	1338.9	1392.3	1399.0
167.5°	1316.7	1325.4	1340.7	1380.1	1382.8
170°	1330.4	1333.7	1340.7	1373.2	1373.2
172.5°	1338.6	1339.3	1342.0	1366.3	1366.3
175°	1347.5	1345.8	1340.7	1359.4	1356.0
177.5°	1351.3	1348.5	1341.6	1352.6	1349.9
180°	1345.8	1345.8	1345.8	1345.8	1345.8

(END OF REPORT)