

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: P520306

Luminaire Tested: **SQ4-F-125U-075D-930-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P520306  
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-930-1D-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**

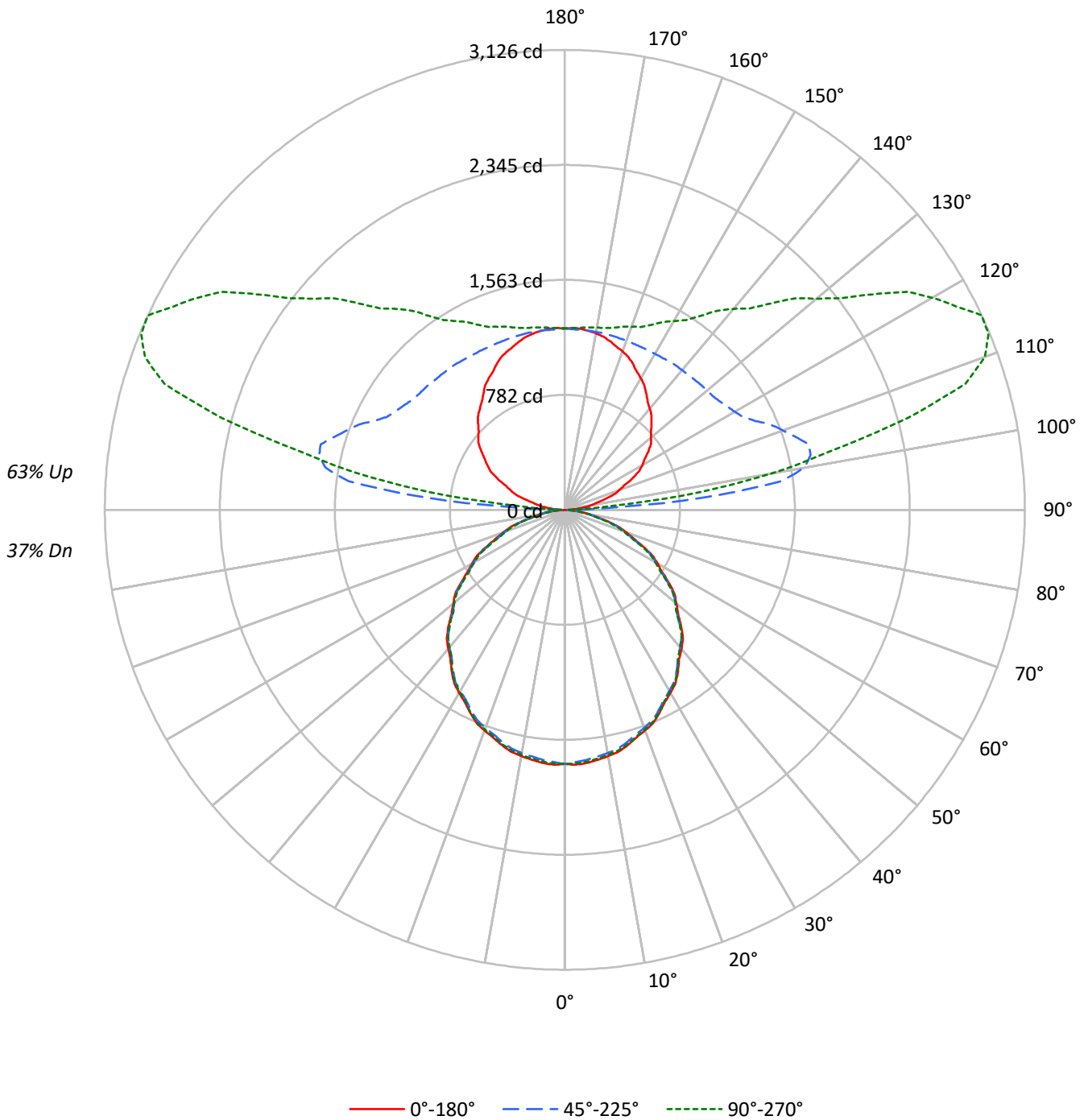
Lumens per Lamp: N/A  
Luminaire Lumens: 12675.1 lumens  
Efficiency: N/A  
Efficacy: 118.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Indirect

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°	7969	7969	7969
5°	7999	7898	7956
10°	7967	7864	7923
15°	7906	7808	7876
20°	7835	7743	7804
25°	7748	7669	7725
30°	7650	7567	7609
35°	7550	7470	7506
40°	7422	7347	7338
45°	7295	7203	7224
50°	7092	7036	7036
55°	6927	6840	6777
60°	6705	6588	6531
65°	6343	6223	6138
70°	5956	5809	5661
75°	5360	5164	5053
80°	4285	4200	4163
85°	2567	2901	2985



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.1	1.3
10°-20°	464.2	3.7
20°-30°	697.4	5.5
30°-40°	832.2	6.6
40°-50°	853.4	6.7
50°-60°	760.5	6.0
60°-70°	567.0	4.5
70°-80°	307.5	2.4
80°-90°	73.5	0.6
90°-100°	576.6	4.5
100°-110°	1553.1	12.3
110°-120°	1629.9	12.9
120°-130°	1322.7	10.4
130°-140°	1037.3	8.2
140°-150°	796.4	6.3
150°-160°	572.6	4.5
160°-170°	349.8	2.8
170°-180°	118.0	0.9
0°-30°	1324.7	10.5
0°-40°	2156.8	17.0
0°-60°	3770.7	29.7
0°-90°	4718.7	37.2
90°-120°	3759.6	29.7
90°-150°	6916.0	54.6
90°-180°	7956.0	62.8
0°-180°	12675.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1727	1727	1727	1727	1727	
5°	1727	1724	1706	1720	1718	164
15°	1655	1652	1635	1648	1649	467
25°	1522	1521	1507	1515	1518	701
35°	1341	1338	1326	1327	1333	837
45°	1118	1114	1104	1104	1107	861
55°	861	860	850	843	843	769
65°	581	581	570	564	562	578
75°	301	294	290	285	284	316
85°	48	52	55	55	56	67
90°	3	9	19	20	20	7
95°	88	314	945	483	334	92
105°	287	447	1718	2570	2412	302
115°	507	621	1430	2764	3126	499
125°	692	795	1284	2171	2554	618
135°	834	930	1248	1751	1983	643
145°	964	1039	1232	1497	1608	605
155°	1094	1134	1222	1343	1386	504
165°	1187	1201	1226	1275	1281	335
175°	1234	1232	1228	1245	1242	117
180°	1232	1232	1232	1232	1232	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1727.4	1727.4	1727.4	1727.4	1727.4
2.5°	1733.7	1730.1	1714.9	1727.4	1726.2
5°	1727.4	1724.4	1705.6	1719.5	1718.1
7.5°	1713.3	1710.0	1691.4	1705.5	1705.2
10°	1700.9	1696.2	1678.9	1693.0	1691.4
12.5°	1684.5	1680.0	1662.6	1676.6	1675.2
15°	1655.4	1652.3	1635.0	1647.6	1649.2
17.5°	1622.2	1616.4	1600.9	1613.2	1614.6
20°	1596.0	1591.3	1577.2	1588.1	1589.7
22.5°	1568.3	1563.8	1549.5	1560.5	1562.1
25°	1522.2	1520.8	1506.6	1514.6	1517.6
27.5°	1472.5	1468.2	1456.8	1462.8	1466.0
30°	1436.1	1433.1	1420.5	1425.2	1428.4
32.5°	1398.5	1396.8	1385.5	1387.7	1392.0
35°	1340.6	1337.5	1326.5	1326.7	1332.8
37.5°	1276.4	1273.1	1263.8	1262.4	1264.8
40°	1232.5	1228.0	1220.0	1218.5	1218.5
42.5°	1187.5	1184.1	1173.7	1170.9	1174.6
45°	1118.2	1113.7	1104.1	1104.2	1107.3
47.5°	1043.4	1041.5	1030.5	1025.6	1026.8
50°	988.2	991.3	980.4	974.3	980.4
52.5°	940.7	938.8	929.1	922.9	925.3
55°	861.3	859.9	850.4	842.6	842.6
57.5°	781.8	777.8	768.1	762.2	766.8
60°	726.7	725.2	714.1	703.3	707.9
62.5°	671.5	668.8	657.7	650.7	654.0
65°	581.1	581.1	570.1	563.8	562.3
67.5°	501.8	494.5	488.3	480.7	478.6
70°	441.6	435.5	430.7	424.3	419.7
72.5°	382.8	379.1	371.8	365.5	364.6
75°	300.7	294.5	289.7	285.0	283.5
77.5°	213.9	212.8	208.3	205.8	206.8
80°	161.3	161.3	158.1	158.1	156.7
82.5°	113.7	114.9	114.3	111.8	111.5
85°	48.5	51.6	54.8	54.8	56.4
87.5°	9.3	16.7	17.5	17.8	17.8
90°	3.2	9.3	18.8	20.4	20.4
92.5°	38.3	135.4	267.5	128.8	89.5
95°	87.9	313.6	945.2	483.3	334.4
97.5°	140.4	359.0	1482.4	1238.4	933.8
100°	180.6	377.0	1653.2	1729.8	1435.1
102.5°	219.4	402.5	1709.8	2097.8	1855.8
105°	287.3	447.0	1717.7	2569.7	2411.6
107.5°	351.4	493.9	1644.5	2812.2	2853.1
110°	394.1	529.2	1577.9	2887.6	3036.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	439.3	564.6	1513.8	2870.9	<i>3115.7</i>
115°	<i>507.2</i>	<i>620.7</i>	<i>1430.3</i>	<i>2763.7</i>	<i>3126.0</i>
117.5°	568.9	675.5	1365.6	2592.5	<i>2996.0</i>
120°	609.2	712.0	1333.0	2469.7	<i>2884.2</i>
122.5°	644.3	746.0	1309.1	2344.0	<i>2757.4</i>
125°	692.4	795.3	1284.3	2170.7	<i>2554.5</i>
127.5°	738.6	839.9	1268.6	2017.7	<i>2360.4</i>
130°	766.2	867.5	1262.3	1930.1	<i>2231.1</i>
132.5°	793.8	893.9	1256.1	1853.0	<i>2129.3</i>
135°	833.7	930.4	1248.2	1751.1	<i>1983.0</i>
137.5°	871.7	964.4	1244.2	1664.8	<i>1855.2</i>
140°	898.1	987.1	1240.3	1611.6	<i>1783.6</i>
142.5°	925.7	1008.6	1237.8	1562.1	<i>1706.9</i>
145°	964.0	1039.2	1232.5	1497.2	<i>1607.8</i>
147.5°	1005.5	1070.9	1227.2	1442.7	<i>1529.5</i>
150°	1033.1	1089.9	1224.6	1408.4	<i>1480.6</i>
152.5°	1058.3	1107.7	1223.4	1380.5	<i>1439.1</i>
155°	1094.4	1134.2	1221.5	1343.4	<i>1386.3</i>
157.5°	1126.0	1157.0	1221.9	1317.3	<i>1346.2</i>
160°	1146.2	1172.2	1223.0	1302.1	<i>1323.6</i>
162.5°	1163.7	1184.9	1224.3	1289.3	<i>1304.7</i>
165°	1186.9	1200.7	1226.2	1275.0	<i>1281.2</i>
167.5°	1205.8	1213.8	1227.8	1264.0	<i>1266.5</i>
170°	1218.4	1221.5	1227.8	1257.6	<i>1257.6</i>
172.5°	1225.9	1226.5	1229.1	1251.4	<i>1251.4</i>
175°	1234.1	1232.5	1227.8	1244.9	<i>1241.9</i>
177.5°	1237.5	1235.1	1228.8	1238.7	<i>1236.3</i>
180°	1232.5	1232.5	1232.5	1232.5	<i>1232.5</i>

(END OF REPORT)