

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: P520053

Luminaire Tested: **SQ4-F-075U-125D-830-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P520053  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G3-1910-536-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-F-075U-125D-830-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

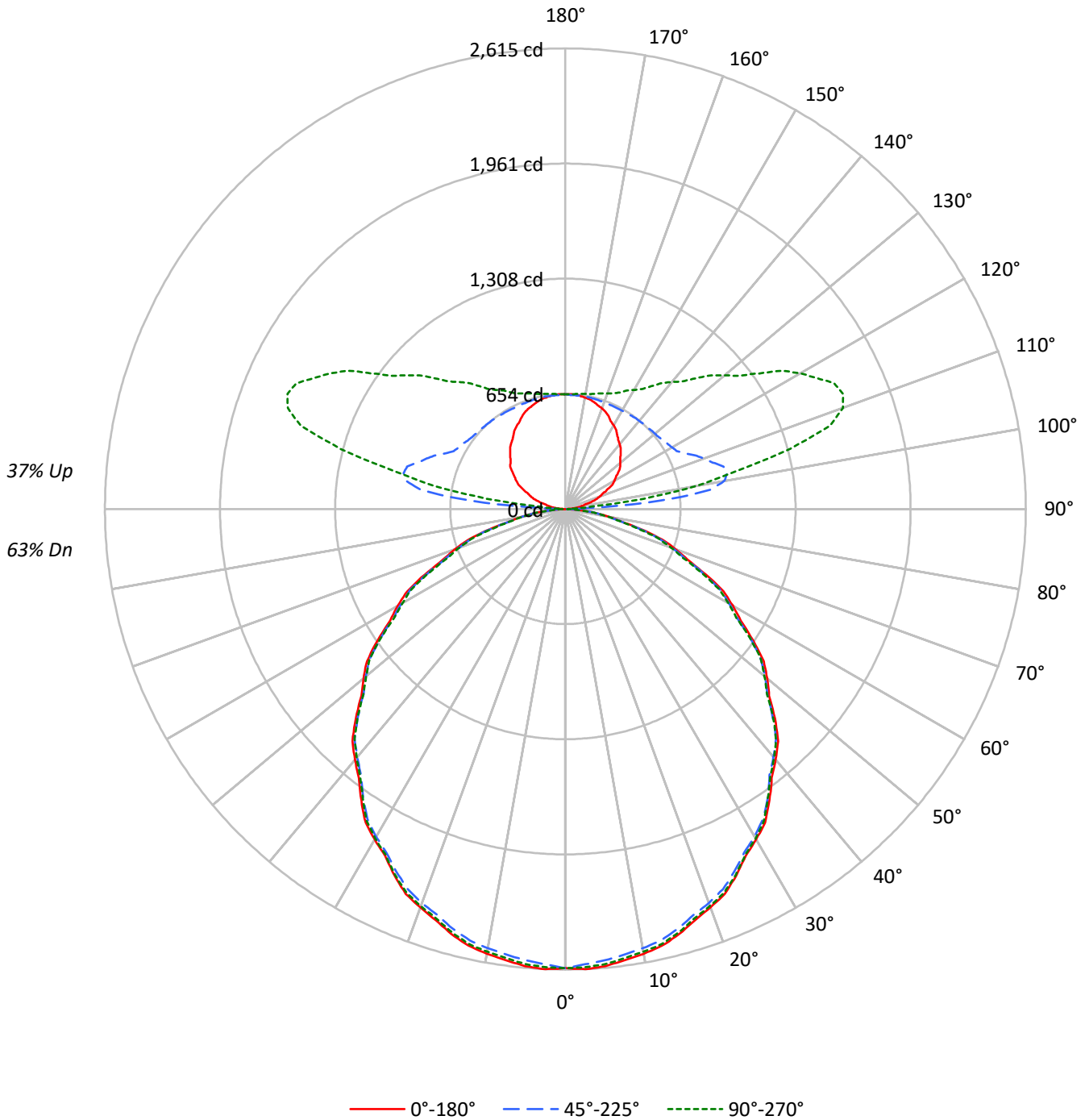
Lumens per Lamp: N/A  
Luminaire Lumens: 11354.0 lumens  
Efficiency: N/A  
Efficacy: 121.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 93.6  
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	110	110	110	110	103	103	103	103	90	90	90	79	79	79	68	68	68	63
1	101	96	92	89	94	90	87	84	79	77	74	69	67	66	60	59	57	53
2	92	84	78	72	86	79	73	69	69	65	61	61	57	55	53	50	48	44
3	83	74	66	60	78	69	63	57	61	56	52	54	49	46	47	43	41	37
4	76	65	57	51	71	61	54	48	54	48	44	48	43	39	41	38	35	32
5	70	58	50	44	65	55	47	42	49	42	38	43	38	34	37	34	30	27
6	65	52	44	38	60	49	42	36	44	38	33	39	34	30	34	30	27	24
7	60	47	39	33	56	45	37	32	40	34	29	35	30	26	31	27	24	21
8	55	43	35	29	52	41	33	28	36	30	26	32	27	24	28	24	21	19
9	52	39	31	26	48	37	30	25	33	27	23	30	25	21	26	22	19	17
10	48	36	28	24	45	34	27	23	31	25	21	27	23	19	24	20	17	15

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

	0°	45°	90°
0°	16038	16038	16038
5°	16090	15886	16019
10°	16016	15819	15944
15°	15909	15716	15845
20°	15761	15583	15705
25°	15581	15417	15543
30°	15389	15257	15338
35°	15171	15042	15052
40°	14921	14759	14806
45°	14642	14480	14504
50°	14322	14156	14116
55°	13958	13757	13726
60°	13503	13203	13133
65°	12802	12531	12364
70°	11921	11612	11457
75°	10606	10366	10060
80°	8643	8388	8335
85°	5166	5872	5872



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	246.0	2.2
10°-20°	700.7	6.2
20°-30°	1052.7	9.3
30°-40°	1256.0	11.1
40°-50°	1287.5	11.3
50°-60°	1147.5	10.1
60°-70°	854.2	7.5
70°-80°	462.8	4.1
80°-90°	107.9	1.0
90°-100°	306.9	2.7
100°-110°	844.3	7.4
110°-120°	871.5	7.7
120°-130°	698.2	6.1
130°-140°	548.4	4.8
140°-150°	420.3	3.7
150°-160°	302.2	2.7
160°-170°	184.8	1.6
170°-180°	62.3	0.5
0°-30°	1999.3	17.6
0°-40°	3255.3	28.7
0°-60°	5690.3	50.1
0°-90°	7115.3	62.7
90°-120°	2022.6	17.8
90°-150°	3689.5	32.5
90°-180°	4239.0	37.3
0°-180°	11354.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2607	2607	2607	2607	2607	
5°	2606	2602	2573	2596	2594	247
15°	2498	2493	2468	2490	2488	704
25°	2296	2292	2272	2285	2290	1057
35°	2020	2019	2003	2003	2005	1263
45°	1683	1679	1665	1662	1667	1297
55°	1302	1297	1283	1273	1280	1162
65°	880	874	861	855	850	871
75°	446	446	436	428	423	474
85°	73	83	83	85	83	101
90°	1	6	10	12	12	5
95°	46	168	543	232	148	48
105°	151	232	930	1417	1322	159
115°	267	325	746	1486	1686	264
125°	368	420	677	1145	1342	329
135°	444	493	658	926	1048	343
145°	514	549	648	789	850	322
155°	581	600	644	709	730	267
165°	628	637	646	673	677	177
175°	651	652	648	656	655	62
180°	651	651	651	651	651	

TEST NUMBER: P520053

CATALOG NUMBER: SQ4-F-075U-125D-830-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2607.4	2607.4	2607.4	2607.4	2607.4
2.5°	2615.4	2610.9	2587.8	2607.3	2603.9
5°	2606.0	2601.7	2572.9	2595.8	2594.4
7.5°	2583.9	2578.5	2552.2	2573.7	2571.2
10°	2564.3	2560.0	2532.8	2554.3	2552.8
12.5°	2540.2	2536.0	2508.7	2530.1	2529.8
15°	2498.3	2492.6	2468.1	2489.6	2488.3
17.5°	2448.1	2441.7	2417.3	2434.4	2437.2
20°	2407.9	2403.7	2380.7	2396.5	2399.3
22.5°	2366.6	2361.2	2337.0	2355.1	2357.9
25°	2295.9	2291.8	2271.6	2284.6	2290.2
27.5°	2218.5	2218.5	2199.8	2209.1	2212.4
30°	2166.8	2166.8	2148.2	2154.0	2159.6
32.5°	2111.7	2107.2	2089.6	2094.3	2099.9
35°	2020.4	2019.0	2003.2	2003.2	2004.6
37.5°	1926.0	1922.1	1904.8	1906.1	1912.8
40°	1858.3	1855.4	1838.2	1838.3	1844.0
42.5°	1789.4	1786.6	1771.6	1769.4	1771.6
45°	1683.3	1679.0	1664.6	1661.9	1667.4
47.5°	1570.1	1571.3	1554.1	1550.2	1553.2
50°	1496.7	1496.7	1479.4	1470.9	1475.2
52.5°	1419.7	1417.5	1400.3	1390.7	1400.6
55°	1301.6	1297.3	1282.9	1273.0	1280.0
57.5°	1180.4	1174.0	1159.5	1148.6	1152.6
60°	1097.7	1087.9	1073.3	1064.8	1067.6
62.5°	1011.7	1006.3	990.7	977.6	983.8
65°	879.6	874.1	861.0	855.1	849.5
67.5°	750.2	746.6	731.9	725.7	722.0
70°	662.9	655.9	645.7	638.5	637.1
72.5°	578.0	569.9	559.7	553.5	549.8
75°	446.3	446.3	436.2	427.5	423.3
77.5°	320.9	322.0	313.7	310.7	308.8
80°	244.0	244.0	236.8	233.9	235.3
82.5°	170.5	173.8	171.4	167.2	165.3
85°	73.2	83.0	83.2	84.6	83.2
87.5°	12.9	21.6	23.8	22.1	19.8
90°	1.4	5.5	9.7	12.4	12.4
92.5°	19.1	81.7	141.4	54.3	44.6
95°	45.7	167.6	542.7	232.0	148.1
97.5°	74.4	185.7	828.1	638.0	450.2
100°	95.6	197.0	917.9	926.4	755.9
102.5°	115.4	210.5	941.0	1149.3	992.9
105°	150.9	232.1	930.3	1416.8	1322.0
107.5°	184.7	258.8	877.4	1547.8	1575.9
110°	209.0	276.7	837.6	1580.3	1677.9



TEST NUMBER: P520053

CATALOG NUMBER: SQ4-F-075U-125D-830-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	231.2	296.7	797.7	1559.4	1707.7
115°	267.2	325.4	746.2	1485.9	1686.2
117.5°	301.6	355.2	713.5	1382.6	1609.2
120°	322.6	374.0	699.1	1305.2	1539.4
122.5°	341.4	392.8	689.1	1237.4	1459.6
125°	368.3	419.7	677.0	1145.2	1341.5
127.5°	393.7	442.7	668.9	1068.2	1240.4
130°	407.0	457.1	664.5	1022.4	1179.5
132.5°	422.5	472.6	661.2	982.2	1124.1
135°	444.4	493.1	657.6	926.2	1048.0
137.5°	464.9	510.1	654.6	880.8	981.2
140°	480.4	522.3	653.4	850.7	941.3
142.5°	493.7	532.4	651.2	823.8	901.5
145°	513.6	548.8	647.9	789.0	850.0
147.5°	534.9	565.3	646.2	758.3	807.0
150°	548.2	575.2	645.1	741.5	779.4
152.5°	560.4	585.3	644.0	726.9	758.3
155°	581.4	600.4	643.7	709.2	729.6
157.5°	596.7	612.1	643.7	694.8	708.7
160°	607.7	619.9	643.7	686.9	697.7
162.5°	616.6	626.6	644.9	680.2	688.9
165°	628.5	636.7	646.5	672.8	677.0
167.5°	636.9	643.0	647.9	666.7	667.9
170°	642.3	646.4	647.9	664.5	664.5
172.5°	646.7	648.7	647.9	661.1	660.0
175°	650.6	652.0	647.9	656.1	654.8
177.5°	651.7	651.7	647.3	654.0	651.7
180°	650.6	650.6	650.6	650.6	650.6

(END OF REPORT)