

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: P519247

Luminaire Tested: **SQ4-WB-075U-125D-930-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519247  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2009-966-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-WB-075U-125D-930-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

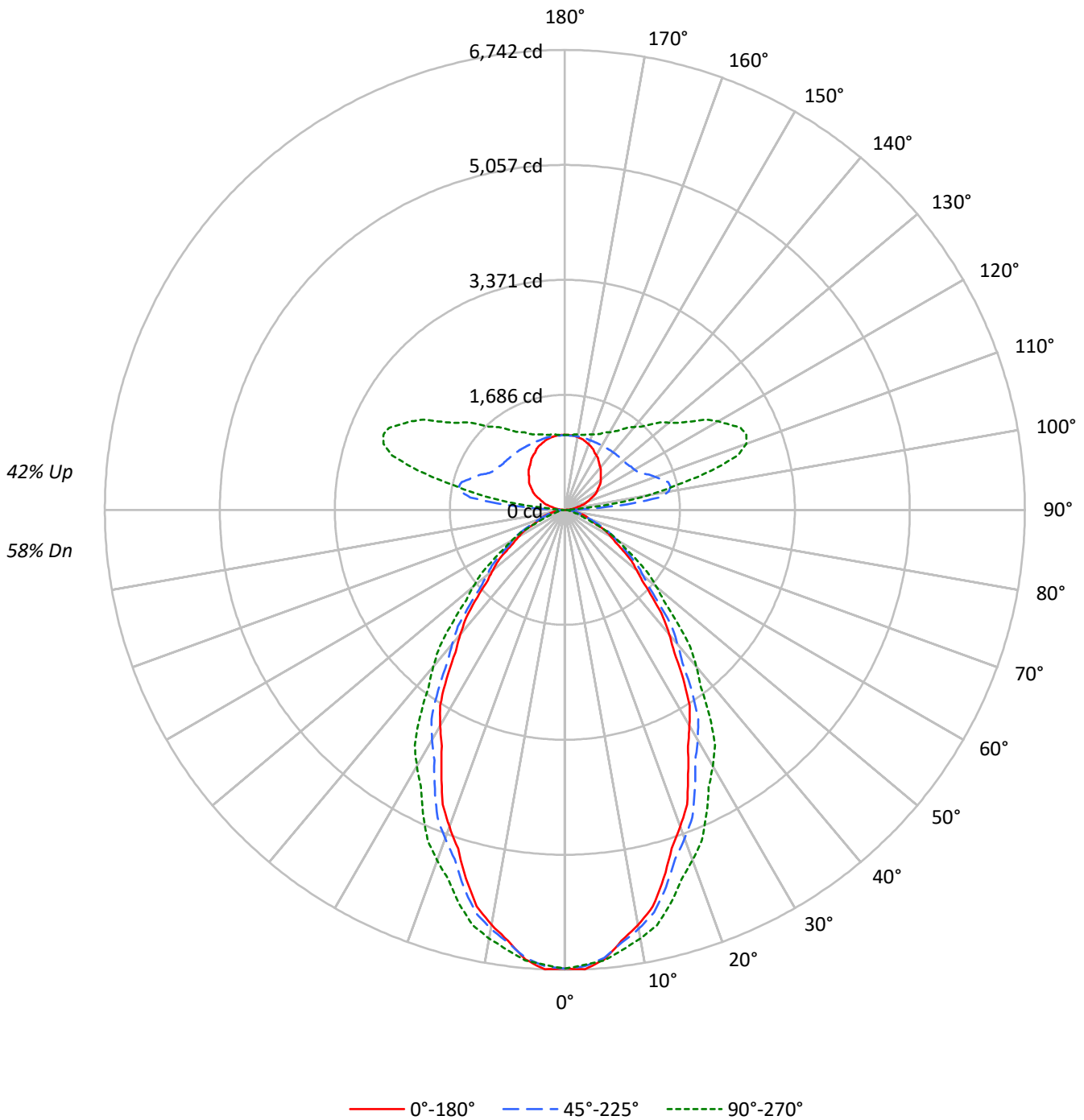
Lumens per Lamp: N/A  
Luminaire Lumens: 16949.4 lumens  
Efficiency: N/A  
Efficacy: 87.0 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 194.8  
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	50	30	10	0	
RCR																						
0	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58				58
1	101	97	94	90	94	91	88	85	79	77	75	68	66	65	58	57	56	51				51
2	93	86	81	76	87	81	76	72	71	67	64	61	59	57	53	51	49	45				45
3	86	77	70	65	80	72	67	62	64	59	56	56	52	50	48	46	44	40				40
4	79	69	62	57	74	65	59	54	58	53	49	51	47	44	44	41	39	36				36
5	73	63	55	50	68	59	52	47	52	47	43	46	42	39	40	37	35	32				32
6	68	57	49	44	64	54	47	42	48	42	38	42	38	35	37	34	31	29				29
7	63	52	44	39	59	49	42	38	44	39	35	39	35	32	34	31	29	26				26
8	59	48	40	35	55	45	39	34	40	35	31	36	32	29	32	29	26	24				24
9	55	44	37	32	52	42	35	31	37	32	29	34	29	26	30	26	24	22				22
10	52	41	34	29	49	39	32	28	35	30	26	31	27	24	28	25	22	20				20

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

	0°	45°	90°
0°	20682	20682	20682
5°	20424	20351	20470
10°	19296	19472	19923
15°	17814	18227	19044
20°	16176	16785	17896
25°	14509	15300	16672
30°	12973	13822	15404
35°	11345	12165	13904
40°	9548	10307	12036
45°	7880	8560	10049
50°	6579	7172	8372
55°	5585	6155	6914
60°	4774	5336	5518
65°	3801	4488	3564
70°	3370	3502	2176
75°	3120	2840	1332
80°	2874	2612	1149
85°	2604	2396	939



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	616.8	3.6
10°-20°	1604.4	9.5
20°-30°	2078.2	12.3
30°-40°	2035.1	12.0
40°-50°	1557.7	9.2
50°-60°	1038.0	6.1
60°-70°	566.4	3.3
70°-80°	236.0	1.4
80°-90°	69.6	0.4
90°-100°	517.4	3.1
100°-110°	1423.6	8.4
110°-120°	1469.4	8.7
120°-130°	1177.3	6.9
130°-140°	924.7	5.5
140°-150°	708.6	4.2
150°-160°	509.5	3.0
160°-170°	311.5	1.8
170°-180°	105.0	0.6
0°-30°	4299.5	25.4
0°-40°	6334.6	37.4
0°-60°	8930.3	52.7
0°-90°	9802.4	57.8
90°-120°	3410.4	20.1
90°-150°	6220.9	36.7
90°-180°	7147.0	42.2
0°-180°	16949.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6725	6725	6725	6725	6725	
5°	6616	6550	6592	6608	6631	615
15°	5595	5575	5725	5880	5981	1562
25°	4276	4287	4509	4706	4913	1966
35°	3022	3036	3240	3458	3703	1879
45°	1812	1846	1968	2117	2310	1413
55°	1042	1085	1148	1191	1290	944
65°	522	566	617	539	490	543
75°	263	263	239	164	112	280
85°	74	74	68	44	27	80
90°	2	9	16	21	21	9
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°	6725.0	6725.0	6725.0	6725.0	6725.0
2.5°	6741.6	6681.5	6696.7	6696.3	6677.8
5°	6615.9	6549.5	6592.2	6607.5	6630.6
7.5°	6370.3	6320.1	6398.1	6455.8	6502.5
10°	6179.1	6135.8	6235.2	6319.2	6379.8
12.5°	5957.2	5920.9	6044.0	6156.7	6235.8
15°	5594.9	5574.7	5724.7	5880.4	5981.4
17.5°	5207.1	5197.3	5369.4	5551.2	5680.4
20°	4942.7	4939.8	5128.6	5317.9	5468.0
22.5°	4676.0	4682.3	4880.7	5077.6	5248.4
25°	4275.8	4287.4	4508.9	4705.5	4913.2
27.5°	3905.8	3911.0	4140.1	4347.5	4569.1
30°	3653.2	3667.6	3892.2	4107.0	4337.8
32.5°	3400.6	3417.3	3637.2	3859.2	4094.6
35°	3021.7	3036.1	3240.1	3458.1	3703.3
37.5°	2631.0	2650.6	2831.7	3037.8	3279.0
40°	2378.4	2407.3	2567.3	2761.5	2998.1
42.5°	2135.3	2171.0	2319.4	2503.7	2717.2
45°	1811.8	1846.5	1968.2	2117.2	2310.5
47.5°	1533.3	1573.1	1666.7	1794.9	1960.0
50°	1375.1	1412.6	1499.0	1594.1	1749.9
52.5°	1235.8	1273.3	1350.3	1423.6	1556.3
55°	1041.7	1084.9	1147.9	1191.4	1289.5
57.5°	882.3	923.9	973.8	993.4	1052.9
60°	776.1	822.2	867.6	865.3	897.1
62.5°	679.3	718.5	763.7	732.4	734.2
65°	522.3	565.6	616.7	538.9	489.8
67.5°	422.0	431.2	483.9	375.8	317.5
70°	374.8	374.8	389.5	291.0	242.0
72.5°	329.9	329.9	316.3	236.7	185.3
75°	262.6	262.6	239.0	164.1	112.1
77.5°	202.4	200.1	183.0	122.4	81.4
80°	162.3	162.3	147.5	96.7	64.9
82.5°	126.9	126.9	114.5	75.5	48.4
85°	73.8	73.8	67.9	43.9	26.6
87.5°	26.4	27.8	26.9	18.3	16.0
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)