

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: P519187

Luminaire Tested: **SQ4-WB-075U-075D-830-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519187  
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-075D-830-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

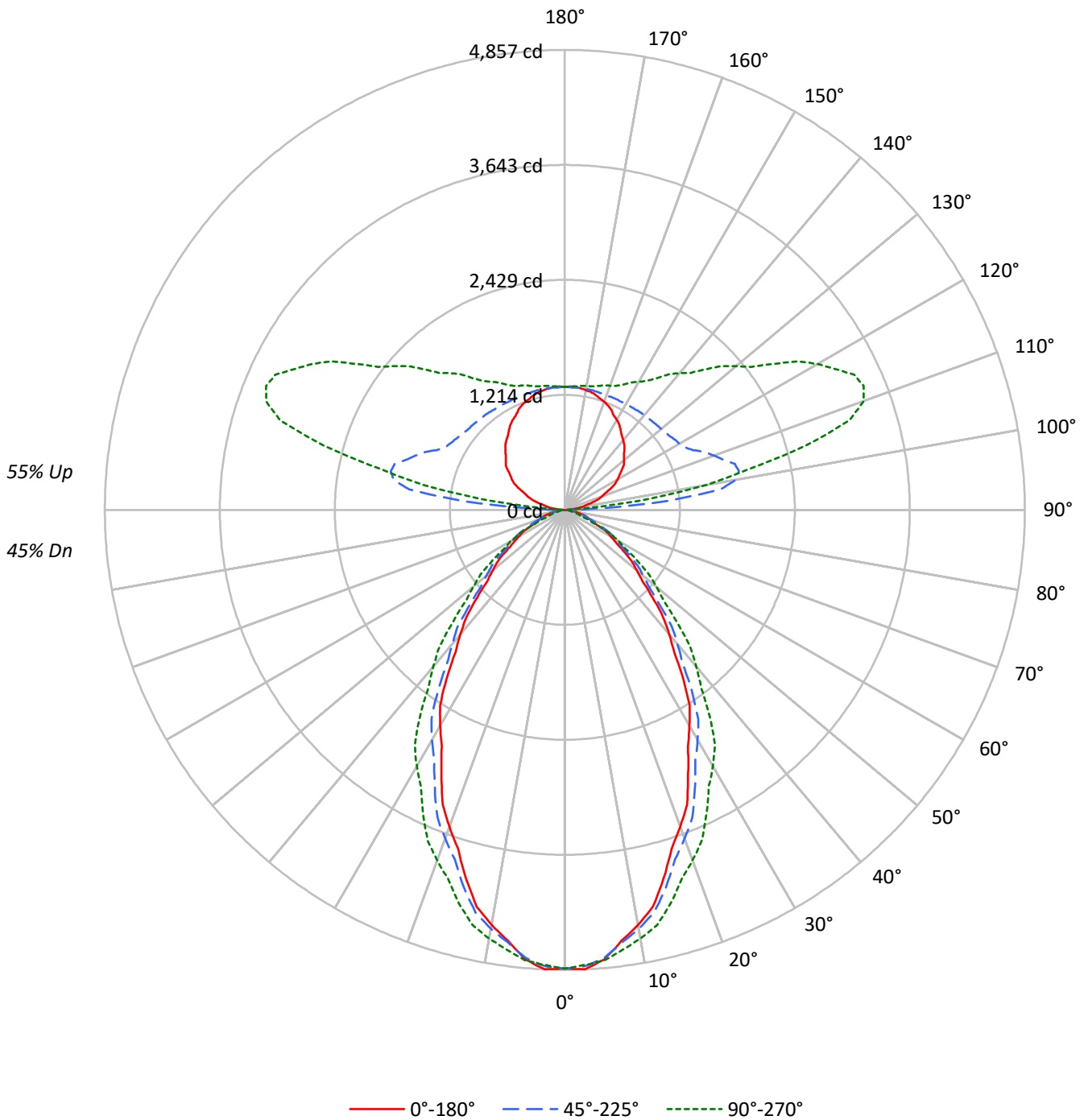
Lumens per Lamp: N/A  
Luminaire Lumens: 15541.2 lumens  
Efficiency: N/A  
Efficacy: 116.5 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 133.4  
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				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	45		
1	98	94	90	87	90	86	83	81	72	70	68	59	58	57	47	47	46	40		
2	90	83	78	73	82	77	72	68	65	61	58	53	51	49	43	42	40	36		
3	83	74	67	62	76	69	63	58	58	54	50	48	45	43	39	37	36	31		
4	76	66	59	54	70	61	55	50	52	48	44	44	40	38	36	34	32	28		
5	70	60	52	47	65	55	49	44	47	42	39	40	36	33	33	30	28	25		
6	65	54	47	41	60	50	44	39	43	38	34	36	33	30	30	28	26	23		
7	61	49	42	37	56	46	39	35	39	34	31	34	30	27	28	25	23	21		
8	56	45	38	33	52	42	36	31	36	31	28	31	27	24	26	23	21	19		
9	53	41	34	29	49	39	32	28	34	29	25	29	25	22	24	21	19	17		
10	49	38	31	27	46	36	30	25	31	26	23	27	23	20	23	20	18	16		

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

	0°	45°	90°
0°	14901	14901	14901
5°	14716	14663	14748
10°	13903	14029	14354
15°	12834	13132	13721
20°	11655	12093	12893
25°	10454	11024	12012
30°	9347	9959	11098
35°	8174	8764	10017
40°	6880	7426	8672
45°	5678	6168	7240
50°	4740	5167	6032
55°	4024	4434	4982
60°	3440	3845	3975
65°	2738	3233	2568
70°	2428	2523	1567
75°	2248	2046	960
80°	2070	1883	829
85°	1877	1725	674



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	444.4	2.9
10°-20°	1156.0	7.4
20°-30°	1497.3	9.6
30°-40°	1466.3	9.4
40°-50°	1122.3	7.2
50°-60°	747.9	4.8
60°-70°	408.1	2.6
70°-80°	170.0	1.1
80°-90°	51.5	0.3
90°-100°	613.7	3.9
100°-110°	1688.6	10.9
110°-120°	1742.9	11.2
120°-130°	1396.4	9.0
130°-140°	1096.8	7.1
140°-150°	840.5	5.4
150°-160°	604.3	3.9
160°-170°	369.5	2.4
170°-180°	124.6	0.8
0°-30°	3097.7	19.9
0°-40°	4564.0	29.4
0°-60°	6434.2	41.4
0°-90°	7063.8	45.5
90°-120°	4045.3	26.0
90°-150°	7379.0	47.5
90°-180°	8477.0	54.5
0°-180°	15541.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4845	4845	4845	4845	4845	
5°	4767	4719	4750	4761	4777	443
15°	4031	4016	4125	4237	4310	1126
25°	3081	3089	3249	3390	3540	1417
35°	2177	2188	2334	2492	2668	1353
45°	1305	1330	1418	1525	1665	1018
55°	750	782	827	858	929	680
65°	376	408	444	388	353	391
75°	189	189	172	118	81	202
85°	53	53	49	32	19	58
90°	3	11	19	25	25	9
95°	91	335	1085	464	296	97
105°	302	464	1861	2834	2644	318
115°	534	651	1492	2972	3372	527
125°	736	839	1354	2290	2683	657
135°	889	986	1315	1852	2096	686
145°	1027	1098	1296	1578	1700	644
155°	1163	1201	1288	1418	1459	534
165°	1257	1273	1293	1346	1354	354
175°	1301	1304	1296	1312	1310	124
180°	1301	1301	1301	1301	1301	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4845.3	4845.3	4845.3	4845.3	4845.3
2.5°	4857.2	4814.0	4824.9	4824.6	4811.3
5°	4766.7	4718.8	4749.7	4760.7	4777.3
7.5°	4589.8	4553.6	4609.8	4651.3	4685.0
10°	4452.0	4420.8	4492.4	4552.9	4596.6
12.5°	4292.1	4265.9	4354.6	4435.9	4492.8
15°	4031.0	4016.5	4124.6	4236.8	4309.6
17.5°	3751.7	3744.6	3868.6	3999.6	4092.7
20°	3561.2	3559.1	3695.1	3831.5	3939.6
22.5°	3369.0	3373.6	3516.5	3658.4	3781.4
25°	3080.7	3089.0	3248.6	3390.2	3539.9
27.5°	2814.1	2817.8	2982.9	3132.4	3292.0
30°	2632.1	2642.5	2804.3	2959.0	3125.3
32.5°	2450.1	2462.1	2620.6	2780.5	2950.1
35°	2177.1	2187.5	2334.4	2491.5	2668.2
37.5°	1895.6	1909.7	2040.2	2188.7	2362.5
40°	1713.6	1734.4	1849.7	1989.6	2160.1
42.5°	1538.4	1564.2	1671.1	1803.9	1957.7
45°	1305.4	1330.4	1418.1	1525.4	1664.7
47.5°	1104.7	1133.4	1200.8	1293.2	1412.1
50°	990.8	1017.8	1080.0	1148.5	1260.8
52.5°	890.4	917.4	972.9	1025.7	1121.3
55°	750.5	781.7	827.0	858.4	929.1
57.5°	635.7	665.6	701.6	715.8	758.6
60°	559.2	592.4	625.1	623.5	646.3
62.5°	489.4	517.7	550.2	527.7	529.0
65°	376.3	407.5	444.3	388.3	352.9
67.5°	304.0	310.7	348.7	270.8	228.8
70°	270.0	270.0	280.6	209.7	174.3
72.5°	237.7	237.7	227.9	170.5	133.5
75°	189.2	189.2	172.2	118.2	80.8
77.5°	145.8	144.2	131.8	88.2	58.7
80°	116.9	116.9	106.3	69.6	46.8
82.5°	91.4	91.4	82.5	54.4	34.9
85°	53.2	53.2	48.9	31.6	19.1
87.5°	19.3	20.9	20.9	15.2	13.5
90°	2.8	10.9	19.4	24.9	24.9
92.5°	38.2	163.3	283.0	108.6	89.2
95°	91.4	335.0	1085.3	464.1	296.3
97.5°	149.0	371.5	1656.2	1276.1	900.4
100°	191.0	394.1	1835.7	1852.8	1511.7
102.5°	230.9	421.0	1882.2	2298.7	1985.7
105°	301.8	464.2	1860.6	2833.6	2644.1
107.5°	369.3	517.7	1754.8	3095.6	3151.9
110°	418.1	553.4	1675.1	3160.8	3355.7

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	462.4	593.4	1595.3	3118.8	3415.5
115°	534.4	650.8	1492.3	2971.6	3372.3
117.5°	603.0	710.2	1427.0	2765.2	3218.4
120°	645.1	748.0	1398.2	2610.5	3078.8
122.5°	682.8	785.6	1378.3	2474.8	2919.3
125°	736.5	839.4	1353.9	2290.3	2682.9
127.5°	787.4	885.4	1337.8	2136.4	2480.8
130°	814.0	914.2	1329.0	2044.9	2358.9
132.5°	845.0	945.2	1322.3	1964.5	2248.2
135°	888.8	986.2	1315.1	1852.3	2095.9
137.5°	929.7	1020.2	1309.0	1761.6	1962.5
140°	960.7	1044.7	1306.8	1701.3	1882.7
142.5°	987.3	1064.7	1302.4	1647.6	1803.0
145°	1027.2	1097.6	1295.8	1578.2	1700.0
147.5°	1069.8	1130.5	1292.4	1516.7	1614.2
150°	1096.4	1150.6	1290.2	1483.0	1558.8
152.5°	1120.8	1170.6	1288.0	1453.9	1516.7
155°	1162.9	1200.8	1287.5	1418.5	1459.1
157.5°	1193.3	1224.2	1287.5	1389.4	1417.6
160°	1215.5	1239.8	1287.5	1373.8	1395.4
162.5°	1233.2	1253.2	1289.7	1360.4	1377.7
165°	1257.0	1273.2	1293.0	1345.8	1353.9
167.5°	1273.6	1286.1	1295.8	1333.5	1335.6
170°	1284.7	1292.8	1295.8	1329.0	1329.0
172.5°	1293.5	1297.3	1295.8	1322.3	1320.1
175°	1301.3	1304.0	1295.8	1312.3	1309.6
177.5°	1303.5	1303.5	1294.7	1307.8	1303.5
180°	1301.3	1301.3	1301.3	1301.3	1301.3

(END OF REPORT)