

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: P519235

Luminaire Tested: **SQ4-WB-075U-125D-830-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519235  
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-830-1D-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, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

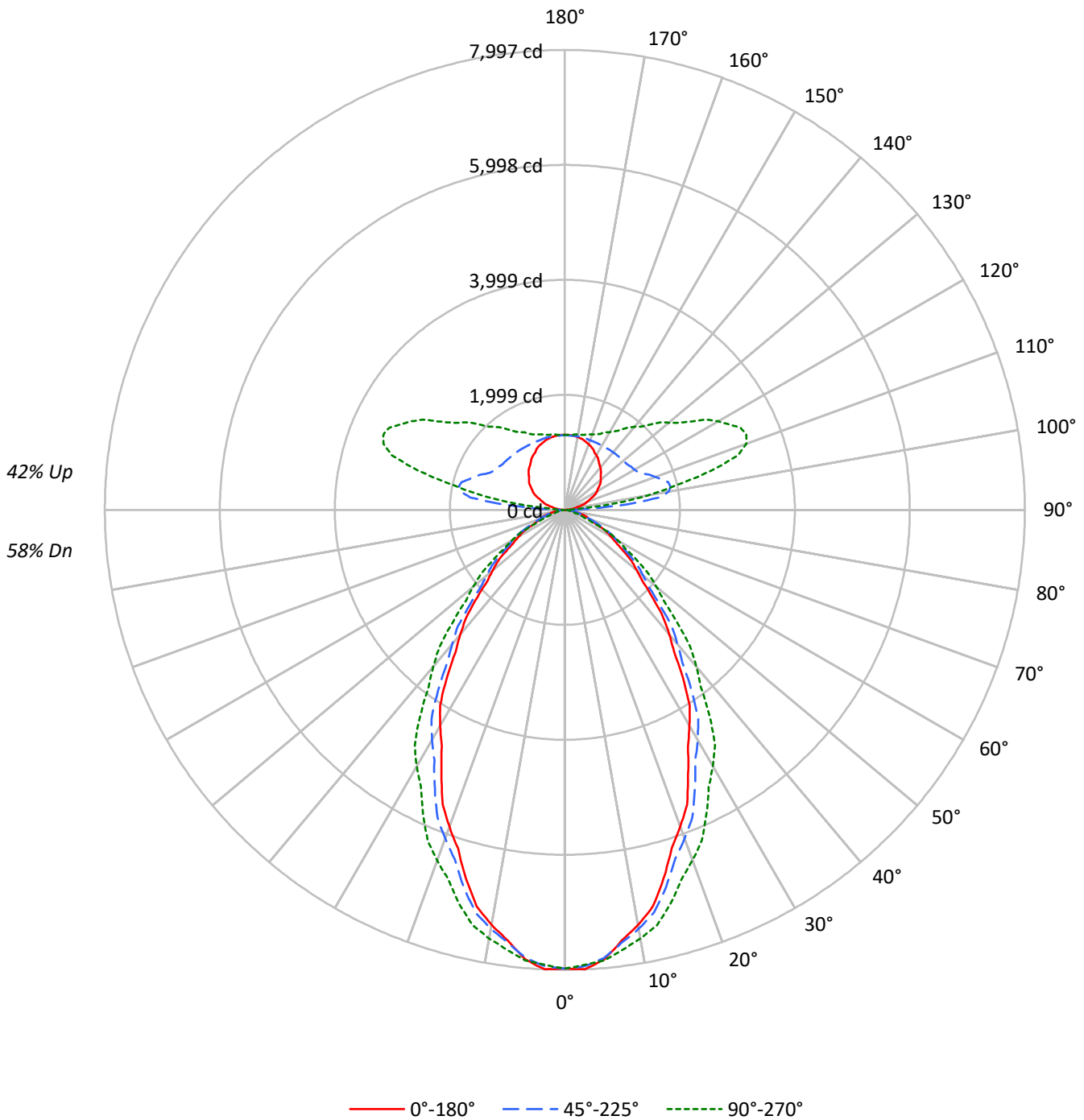
Lumens per Lamp: N/A  
Luminaire Lumens: 20104.6 lumens  
Efficiency: N/A  
Efficacy: 103.2 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: General Diffuse

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

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

	0°	45°	90°
0°	24532	24532	24532
5°	24226	24140	24280
10°	22889	23096	23632
15°	21130	21620	22589
20°	19188	19910	21227
25°	17210	18149	19776
30°	15388	16395	18272
35°	13456	14429	16492
40°	11326	12225	14277
45°	9347	10154	11920
50°	7804	8507	9931
55°	6625	7301	8201
60°	5662	6330	6545
65°	4508	5323	4228
70°	3997	4154	2581
75°	3701	3369	1580
80°	3409	3099	1364
85°	3088	2841	1112



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	731.7	3.6
10°-20°	1903.1	9.5
20°-30°	2465.1	12.3
30°-40°	2413.9	12.0
40°-50°	1847.7	9.2
50°-60°	1231.2	6.1
60°-70°	671.9	3.3
70°-80°	280.0	1.4
80°-90°	82.6	0.4
90°-100°	613.7	3.1
100°-110°	1688.6	8.4
110°-120°	1742.9	8.7
120°-130°	1396.4	6.9
130°-140°	1096.8	5.5
140°-150°	840.5	4.2
150°-160°	604.3	3.0
160°-170°	369.5	1.8
170°-180°	124.6	0.6
0°-30°	5099.9	25.4
0°-40°	7513.8	37.4
0°-60°	10592.8	52.7
0°-90°	11627.2	57.8
90°-120°	4045.3	20.1
90°-150°	7379.0	36.7
90°-180°	8477.0	42.2
0°-180°	20104.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7977	7977	7977	7977	7977	
5°	7848	7769	7820	7838	7865	730
15°	6636	6612	6790	6975	7095	1853
25°	5072	5086	5348	5581	5828	2332
35°	3584	3601	3843	4102	4393	2228
45°	2149	2190	2335	2511	2741	1676
55°	1236	1287	1362	1413	1530	1120
65°	620	671	732	639	581	644
75°	312	312	284	195	133	333
85°	88	88	80	52	32	95
90°	3	11	19	25	25	10
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°	7977.0	7977.0	7977.0	7977.0	7977.0
2.5°	7996.6	7925.4	7943.4	7942.9	7921.0
5°	7847.5	7768.7	7819.5	7837.6	7865.0
7.5°	7556.2	7496.7	7589.1	7657.6	7713.1
10°	7329.4	7278.1	7395.9	7495.6	7567.4
12.5°	7066.2	7023.1	7169.1	7302.9	7396.6
15°	6636.4	6612.4	6790.4	6975.1	7094.9
17.5°	6176.5	6164.8	6369.0	6584.6	6737.9
20°	5862.8	5859.4	6083.4	6307.9	6485.9
22.5°	5546.4	5554.0	5789.3	6022.9	6225.5
25°	5071.8	5085.5	5348.3	5581.4	5827.8
27.5°	4632.9	4639.0	4910.8	5156.9	5419.7
30°	4333.3	4350.4	4616.8	4871.5	5145.3
32.5°	4033.6	4053.5	4314.4	4577.6	4856.9
35°	3584.2	3601.3	3843.2	4101.9	4392.8
37.5°	3120.8	3144.1	3358.8	3603.3	3889.4
40°	2821.2	2855.4	3045.2	3275.6	3556.2
42.5°	2532.7	2575.2	2751.2	2969.7	3223.0
45°	2149.1	2190.2	2334.6	2511.4	2740.7
47.5°	1818.7	1865.9	1976.9	2129.1	2324.8
50°	1631.1	1675.6	1778.1	1890.8	2075.6
52.5°	1465.9	1510.4	1601.7	1688.6	1846.0
55°	1235.6	1286.9	1361.6	1413.2	1529.6
57.5°	1046.6	1095.8	1155.1	1178.4	1248.9
60°	920.6	975.3	1029.1	1026.4	1064.1
62.5°	805.7	852.3	905.9	868.8	870.9
65°	619.5	670.9	731.5	639.2	581.0
67.5°	500.5	511.5	574.0	445.8	376.6
70°	444.5	444.5	462.0	345.2	287.0
72.5°	391.3	391.3	375.2	280.7	219.8
75°	311.5	311.5	283.5	194.6	133.0
77.5°	240.1	237.4	217.0	145.2	96.6
80°	192.5	192.5	175.0	114.7	77.0
82.5°	150.5	150.5	135.8	89.6	57.4
85°	87.5	87.5	80.5	52.0	31.5
87.5°	31.4	33.0	31.9	21.7	19.0
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)