

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: P519198

Luminaire Tested: **SQ4-WB-075U-075D-840-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519198  
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-840-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

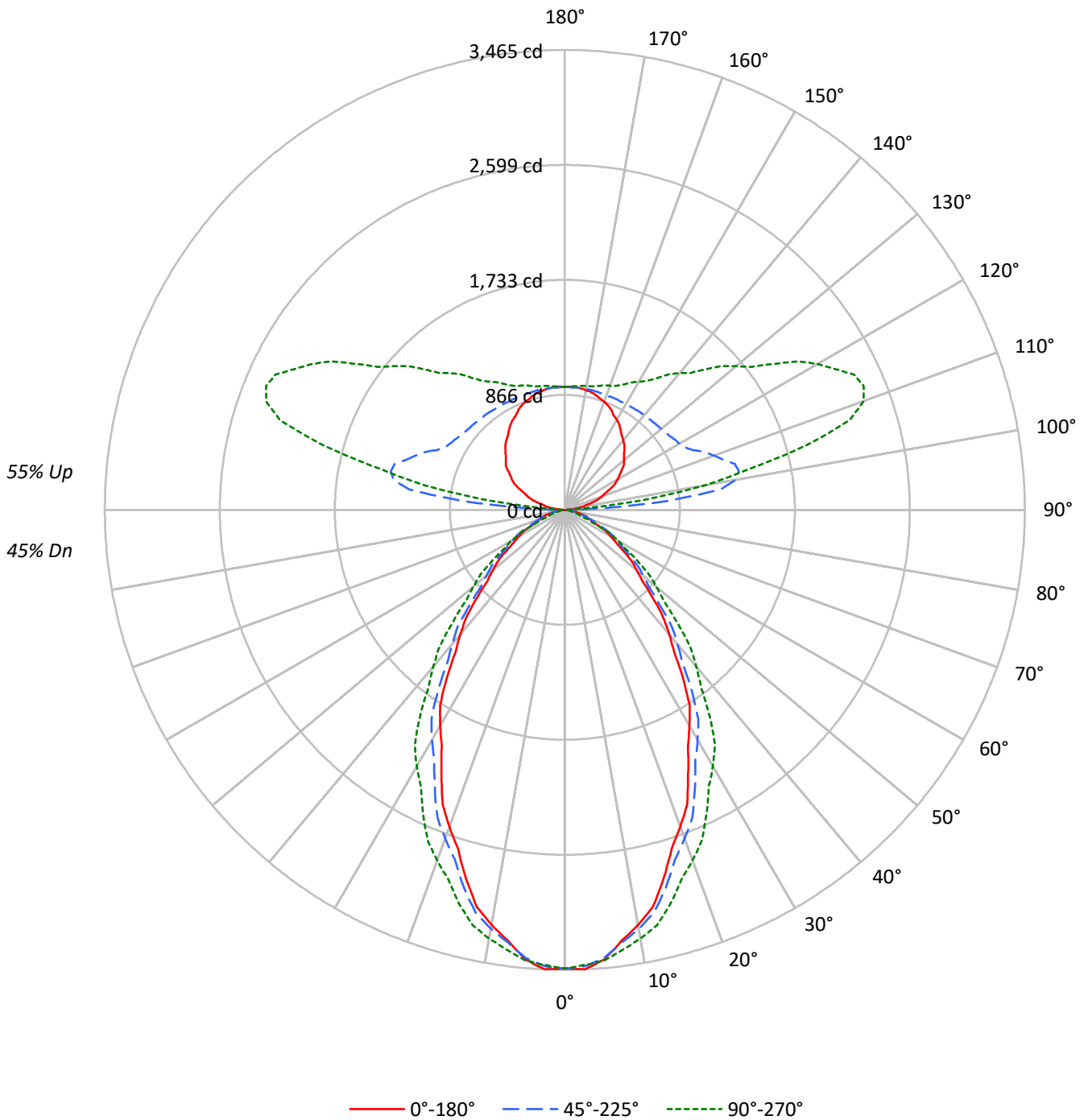
Lumens per Lamp: N/A  
Luminaire Lumens: 11087.1 lumens  
Efficiency: N/A  
Efficacy: 121.8 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 91  
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°	15946	15946	15946
5°	15747	15691	15782
10°	14878	15013	15361
15°	13734	14053	14683
20°	12472	12941	13797
25°	11187	11797	12854
30°	10002	10657	11877
35°	8746	9379	10720
40°	7362	7947	9280
45°	6076	6600	7748
50°	5072	5530	6455
55°	4306	4745	5331
60°	3680	4114	4254
65°	2931	3460	2749
70°	2598	2700	1678
75°	2406	2191	1027
80°	2216	2014	887
85°	2006	1847	725



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	317.1	2.9
10°-20°	824.7	7.4
20°-30°	1068.2	9.6
30°-40°	1046.0	9.4
40°-50°	800.7	7.2
50°-60°	533.5	4.8
60°-70°	291.1	2.6
70°-80°	121.3	1.1
80°-90°	36.7	0.3
90°-100°	437.9	3.9
100°-110°	1204.6	10.9
110°-120°	1243.4	11.2
120°-130°	996.2	9.0
130°-140°	782.5	7.1
140°-150°	599.6	5.4
150°-160°	431.1	3.9
160°-170°	263.6	2.4
170°-180°	88.9	0.8
0°-30°	2209.9	19.9
0°-40°	3256.0	29.4
0°-60°	4590.2	41.4
0°-90°	5039.3	45.5
90°-120°	2885.9	26.0
90°-150°	5264.2	47.5
90°-180°	6048.0	54.5
0°-180°	11087.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3457	3457	3457	3457	3457	
5°	3400	3366	3388	3396	3408	316
15°	2876	2865	2942	3022	3074	803
25°	2198	2204	2318	2419	2525	1011
35°	1553	1561	1665	1778	1904	966
45°	931	949	1012	1088	1188	726
55°	535	558	590	612	663	485
65°	268	291	317	277	252	279
75°	135	135	123	84	58	144
85°	38	38	35	22	14	41
90°	2	8	14	18	18	6
95°	65	239	774	331	211	69
105°	215	331	1327	2022	1886	227
115°	381	464	1065	2120	2406	376
125°	525	599	966	1634	1914	469
135°	634	704	938	1321	1495	489
145°	733	783	924	1126	1213	460
155°	830	857	918	1012	1041	381
165°	897	908	922	960	966	253
175°	928	930	924	936	934	88
180°	928	928	928	928	928	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3456.7	3456.7	3456.7	3456.7	3456.7
2.5°	3465.2	3434.3	3442.1	3441.9	3432.4
5°	3400.5	3366.4	3388.4	3396.3	3408.1
7.5°	3274.4	3248.5	3288.6	3318.3	3342.3
10°	3176.1	3153.8	3204.9	3248.1	3279.2
12.5°	3062.0	3043.3	3106.6	3164.6	3205.2
15°	2875.8	2865.4	2942.5	3022.5	3074.4
17.5°	2676.5	2671.4	2759.9	2853.3	2919.7
20°	2540.6	2539.1	2636.1	2733.4	2810.5
22.5°	2403.4	2406.7	2508.7	2609.9	2697.7
25°	2197.8	2203.7	2317.6	2418.6	2525.4
27.5°	2007.6	2010.2	2128.0	2234.6	2348.5
30°	1877.7	1885.1	2000.6	2111.0	2229.6
32.5°	1747.9	1756.5	1869.5	1983.6	2104.6
35°	1553.1	1560.6	1665.4	1777.5	1903.5
37.5°	1352.3	1362.4	1455.5	1561.4	1685.4
40°	1222.5	1237.3	1319.6	1419.4	1541.0
42.5°	1097.5	1115.9	1192.2	1286.9	1396.6
45°	931.3	949.1	1011.7	1088.2	1187.6
47.5°	788.1	808.6	856.7	922.6	1007.4
50°	706.8	726.1	770.5	819.3	899.4
52.5°	635.2	654.5	694.1	731.7	799.9
55°	535.4	557.7	590.0	612.4	662.8
57.5°	453.5	474.9	500.5	510.6	541.2
60°	398.9	422.6	445.9	444.8	461.1
62.5°	349.2	369.3	392.5	376.5	377.4
65°	268.5	290.7	317.0	277.0	251.8
67.5°	216.9	221.6	248.7	193.2	163.2
70°	192.6	192.6	200.2	149.6	124.4
72.5°	169.6	169.6	162.6	121.6	95.3
75°	135.0	135.0	122.9	84.3	57.6
77.5°	104.0	102.9	94.0	62.9	41.9
80°	83.4	83.4	75.8	49.7	33.4
82.5°	65.2	65.2	58.8	38.8	24.9
85°	37.9	37.9	34.9	22.5	13.7
87.5°	13.7	14.9	14.9	10.8	9.6
90°	2.0	7.8	13.8	17.8	17.8
92.5°	27.3	116.5	201.9	77.5	63.6
95°	65.2	239.0	774.3	331.1	211.3
97.5°	106.3	265.0	1181.6	910.4	642.3
100°	136.3	281.1	1309.6	1321.8	1078.5
102.5°	164.7	300.3	1342.7	1639.9	1416.6
105°	215.3	331.2	1327.3	2021.5	1886.3
107.5°	263.5	369.3	1251.9	2208.4	2248.6
110°	298.3	394.8	1195.0	2254.9	2394.0

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	329.9	423.3	1138.1	2224.9	2436.6
115°	381.2	464.3	1064.6	2120.0	2405.8
117.5°	430.2	506.7	1018.0	1972.7	2296.0
120°	460.2	533.6	997.5	1862.3	2196.4
122.5°	487.1	560.5	983.3	1765.5	2082.7
125°	525.4	598.8	965.9	1633.9	1914.0
127.5°	561.7	631.7	954.4	1524.1	1769.8
130°	580.7	652.2	948.1	1458.8	1682.9
132.5°	602.8	674.3	943.4	1401.5	1603.9
135°	634.0	703.6	938.2	1321.4	1495.2
137.5°	663.3	727.8	933.9	1256.7	1400.0
140°	685.4	745.3	932.3	1213.7	1343.1
142.5°	704.4	759.6	929.1	1175.4	1286.3
145°	732.8	783.0	924.4	1125.9	1212.8
147.5°	763.2	806.5	922.0	1082.0	1151.5
150°	782.2	820.8	920.4	1058.0	1112.0
152.5°	799.6	835.1	918.9	1037.2	1082.0
155°	829.6	856.6	918.5	1012.0	1040.9
157.5°	851.3	873.3	918.5	991.2	1011.3
160°	867.1	884.5	918.5	980.1	995.5
162.5°	879.8	894.0	920.1	970.5	982.9
165°	896.7	908.3	922.4	960.1	965.9
167.5°	908.6	917.5	924.4	951.3	952.8
170°	916.5	922.3	924.4	948.1	948.1
172.5°	922.8	925.5	924.4	943.3	941.8
175°	928.3	930.3	924.4	936.2	934.3
177.5°	929.9	929.9	923.6	933.0	929.9
180°	928.3	928.3	928.3	928.3	928.3

(END OF REPORT)