

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: P519528

Luminaire Tested: **SQ4-WB-125U-125D-835-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519528  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-125U-125D-835-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

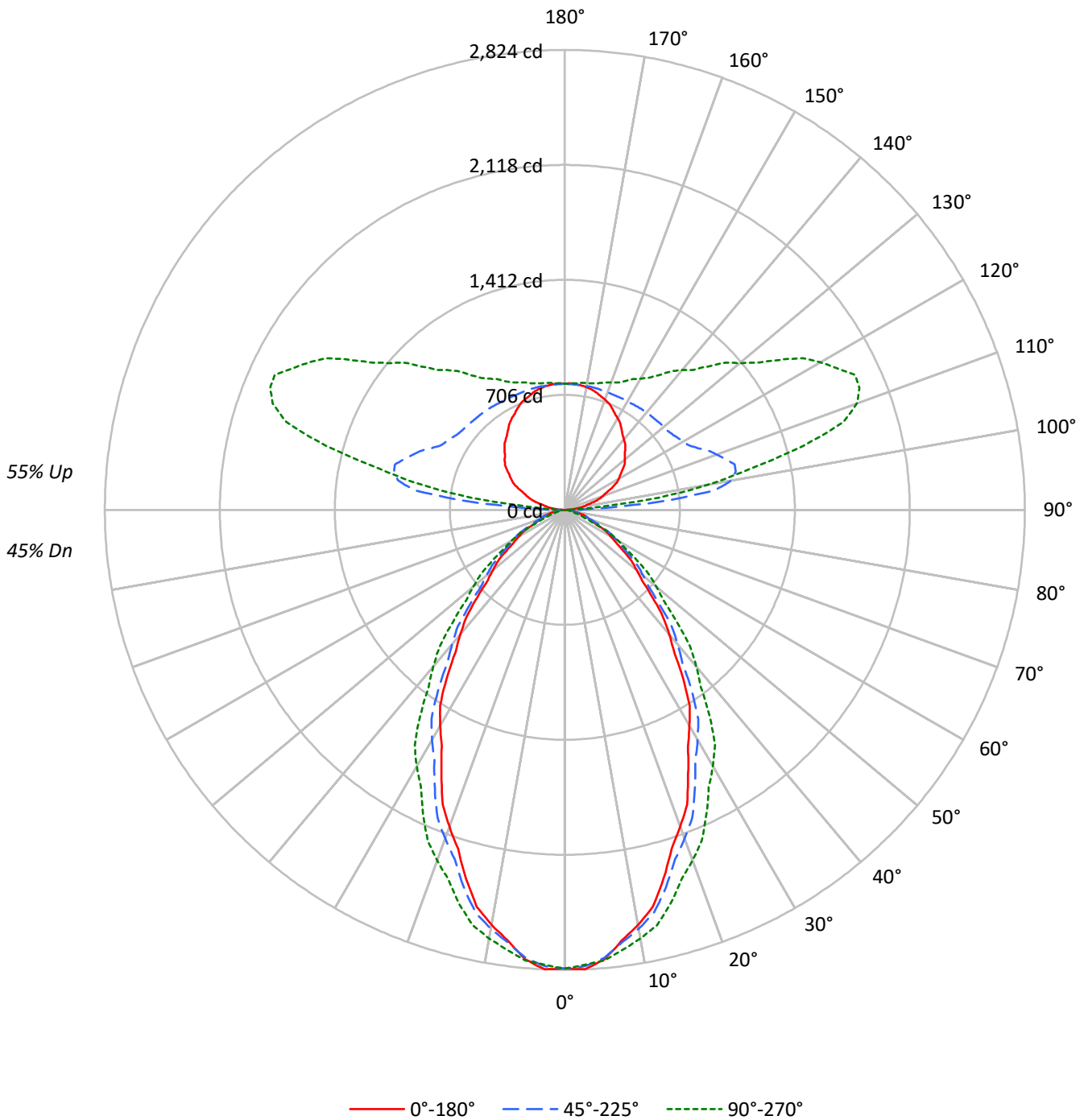
Lumens per Lamp: N/A  
Luminaire Lumens: 9106.1 lumens  
Efficiency: N/A  
Efficacy: 120.9 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 75.3  
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	106	106	106	106	97	97	97	97	81	81	81	65	65	65	52	52	52	45
1	98	94	90	87	90	86	83	81	72	70	68	59	58	57	47	46	46	40
2	90	83	78	73	82	77	72	68	64	61	58	53	51	49	43	41	40	35
3	83	74	67	62	76	68	63	58	58	54	50	48	45	43	39	37	35	31
4	76	66	59	54	70	61	55	50	52	47	44	44	40	38	36	33	31	28
5	70	60	52	47	65	55	49	44	47	42	39	40	36	33	33	30	28	25
6	65	54	46	41	60	50	44	39	43	38	34	36	33	30	30	27	25	23
7	61	49	42	36	56	46	39	34	39	34	31	33	30	27	28	25	23	20
8	56	45	38	33	52	42	35	31	36	31	28	31	27	24	26	23	21	19
9	53	41	34	29	49	39	32	28	33	28	25	29	25	22	24	21	19	17
10	49	38	31	27	46	36	29	25	31	26	23	27	23	20	22	20	18	16

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

	0°	45°	90°
0°	25990	25990	25990
5°	25666	25575	25724
10°	24250	24470	25036
15°	22385	22905	23933
20°	20328	21093	22489
25°	18233	19227	20951
30°	16303	17369	19358
35°	14257	15286	17472
40°	11999	12952	15126
45°	9903	10758	12629
50°	8268	9013	10521
55°	7018	7734	8689
60°	5999	6706	6934
65°	4777	5639	4480
70°	4235	4402	2735
75°	3921	3568	1675
80°	3613	3284	1445
85°	3271	3006	1175



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	258.4	2.8
10°-20°	672.1	7.4
20°-30°	870.5	9.6
30°-40°	852.5	9.4
40°-50°	652.5	7.2
50°-60°	434.8	4.8
60°-70°	237.3	2.6
70°-80°	98.9	1.1
80°-90°	29.8	0.3
90°-100°	362.3	4.0
100°-110°	975.9	10.7
110°-120°	1024.2	11.2
120°-130°	831.1	9.1
130°-140°	651.8	7.2
140°-150°	500.4	5.5
150°-160°	359.8	4.0
160°-170°	219.8	2.4
170°-180°	74.1	0.8
0°-30°	1801.0	19.8
0°-40°	2653.5	29.1
0°-60°	3740.8	41.1
0°-90°	4106.8	45.1
90°-120°	2362.3	25.9
90°-150°	4345.6	47.7
90°-180°	4999.0	54.9
0°-180°	9106.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2817	2817	2817	2817	2817	
5°	2771	2744	2761	2768	2778	258
15°	2344	2335	2398	2463	2506	654
25°	1791	1796	1889	1971	2058	824
35°	1266	1272	1357	1449	1551	787
45°	759	774	824	887	968	592
55°	436	454	481	499	540	396
65°	219	237	258	226	205	227
75°	110	110	100	69	47	117
85°	31	31	28	18	11	34
90°	2	6	12	13	13	5
95°	55	197	594	304	210	58
105°	180	281	1079	1615	1515	190
115°	319	390	899	1736	1964	314
125°	435	500	807	1364	1605	389
135°	524	585	784	1100	1246	404
145°	606	653	774	941	1010	380
155°	688	713	768	844	871	317
165°	746	754	770	801	805	210
175°	775	774	772	782	780	74
180°	774	774	774	774	774	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2817.0	2817.0	2817.0	2817.0	2817.0
2.5°	2824.0	2798.8	2805.2	2805.0	2797.3
5°	2771.3	2743.5	2761.4	2767.8	2777.5
7.5°	2668.5	2647.4	2680.1	2704.3	2723.8
10°	2588.4	2570.2	2611.9	2647.0	2672.4
12.5°	2495.4	2480.2	2531.8	2579.0	2612.1
15°	2343.6	2335.2	2398.0	2463.3	2505.6
17.5°	2181.2	2177.1	2249.2	2325.3	2379.5
20°	2070.4	2069.2	2148.3	2227.6	2290.5
22.5°	1958.7	1961.4	2044.5	2127.0	2198.5
25°	1791.1	1795.9	1888.7	1971.1	2058.1
27.5°	1636.1	1638.3	1734.2	1821.1	1914.0
30°	1530.3	1536.3	1630.4	1720.4	1817.1
32.5°	1424.5	1431.5	1523.6	1616.6	1715.2
35°	1265.8	1271.8	1357.2	1448.6	1551.3
37.5°	1102.1	1110.3	1186.2	1272.5	1373.5
40°	996.3	1008.4	1075.4	1156.8	1255.9
42.5°	894.4	909.4	971.6	1048.8	1138.2
45°	759.0	773.5	824.5	886.9	967.9
47.5°	642.3	659.0	698.1	751.9	821.0
50°	576.0	591.7	627.9	667.7	733.0
52.5°	517.7	533.4	565.6	596.3	651.9
55°	436.3	454.5	480.8	499.1	540.2
57.5°	369.6	387.0	407.9	416.1	441.0
60°	325.1	344.4	363.4	362.5	375.8
62.5°	284.5	301.0	319.9	306.8	307.5
65°	218.8	236.9	258.3	225.7	205.2
67.5°	176.8	180.6	202.7	157.4	133.0
70°	157.0	157.0	163.2	121.9	101.4
72.5°	138.2	138.2	132.5	99.1	77.6
75°	110.0	110.0	100.1	68.7	47.0
77.5°	84.8	83.8	76.6	51.3	34.1
80°	68.0	68.0	61.8	40.5	27.2
82.5°	53.2	53.2	48.0	31.6	20.3
85°	30.9	30.9	28.4	18.4	11.1
87.5°	11.3	12.0	12.3	8.5	7.5
90°	2.0	5.8	11.8	12.8	12.8
92.5°	24.1	85.0	168.1	80.9	56.2
95°	55.2	197.0	593.9	303.7	210.1
97.5°	88.2	225.6	931.5	778.2	586.8
100°	113.4	236.9	1038.8	1086.9	901.7
102.5°	137.9	252.9	1074.3	1318.1	1166.1
105°	180.5	280.9	1079.3	1614.6	1515.3
107.5°	220.8	310.3	1033.3	1767.0	1792.7
110°	247.6	332.5	991.5	1814.4	1907.9

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	276.0	354.7	951.2	1803.9	1957.7
115°	318.6	390.0	898.7	1736.5	1964.2
117.5°	357.5	424.5	858.1	1629.0	1882.5
120°	382.8	447.4	837.6	1551.8	1812.2
122.5°	404.9	468.7	822.6	1472.9	1732.5
125°	435.1	499.7	807.0	1363.9	1605.1
127.5°	464.1	527.7	797.1	1267.8	1483.1
130°	481.4	545.1	793.2	1212.8	1401.8
132.5°	498.8	561.7	789.2	1164.3	1337.9
135°	523.8	584.6	784.3	1100.3	1246.0
137.5°	547.7	606.0	781.7	1046.1	1165.7
140°	564.3	620.2	779.4	1012.7	1120.7
142.5°	581.7	633.7	777.8	981.5	1072.5
145°	605.7	653.0	774.4	940.7	1010.2
147.5°	631.8	672.9	771.1	906.5	961.1
150°	649.1	684.8	769.5	885.0	930.3
152.5°	664.9	696.0	768.7	867.4	904.2
155°	687.6	712.7	767.5	844.1	871.1
157.5°	707.5	727.0	767.7	827.7	845.8
160°	720.2	736.6	768.5	818.1	831.6
162.5°	731.2	744.5	769.3	810.2	819.8
165°	745.8	754.5	770.5	801.1	805.0
167.5°	757.6	762.7	771.5	794.2	795.7
170°	765.5	767.5	771.5	790.2	790.2
172.5°	770.3	770.7	772.2	786.3	786.3
175°	775.4	774.4	771.5	782.3	780.3
177.5°	777.6	776.0	772.1	778.3	776.8
180°	774.4	774.4	774.4	774.4	774.4

(END OF REPORT)