

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: P519237

Luminaire Tested: **SQ4-WB-075U-125D-830-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519237  
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-6  
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**

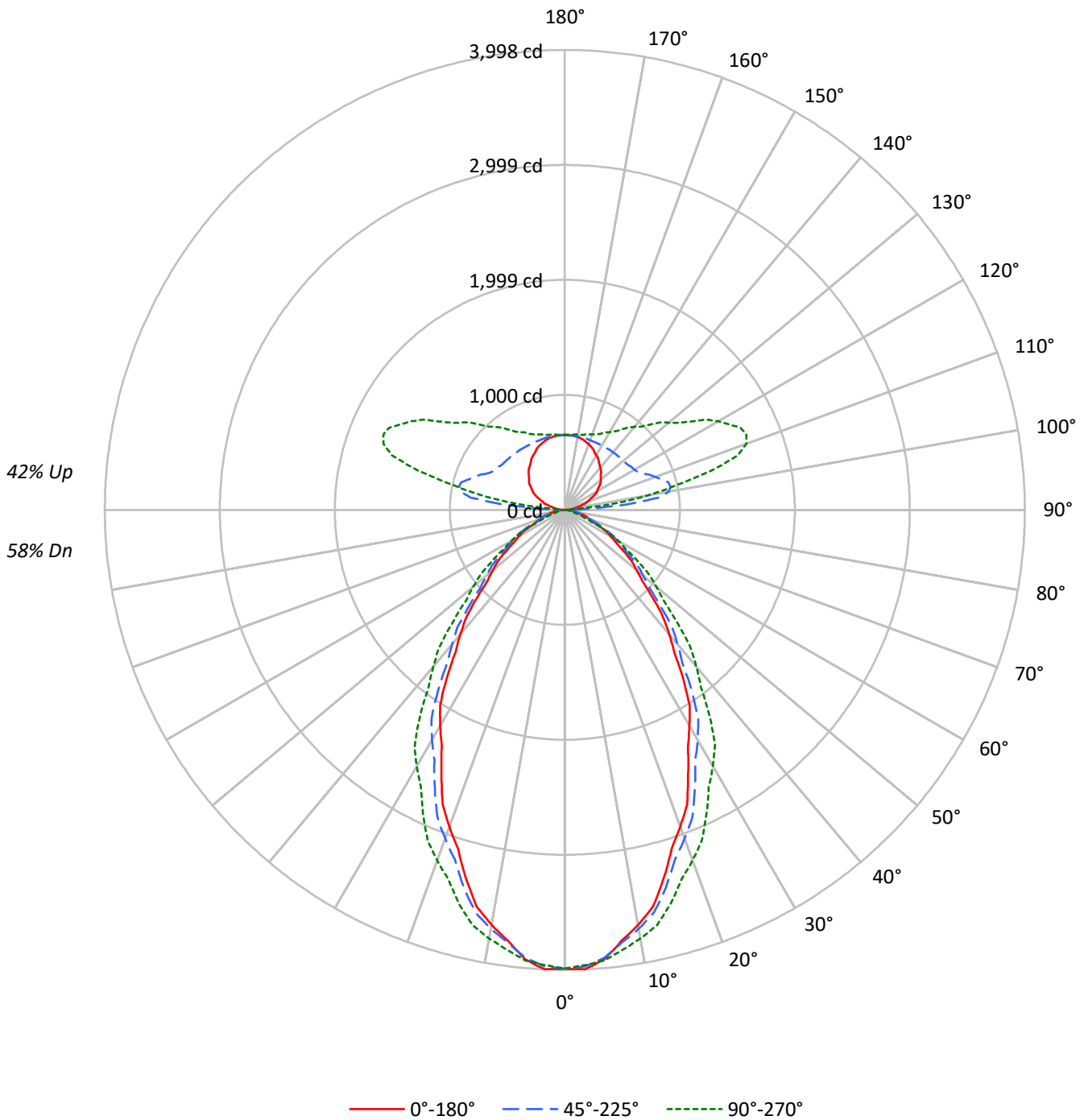
Lumens per Lamp: N/A  
Luminaire Lumens: 10052.4 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 97.3  
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	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	23097	23632
15°	21130	21620	22590
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°	7803	8508	9931
55°	6625	7301	8201
60°	5662	6329	6544
65°	4509	5324	4228
70°	3998	4154	2581
75°	3703	3370	1580
80°	3411	3099	1364
85°	3091	2844	1115



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	365.8	3.6
10°-20°	951.6	9.5
20°-30°	1232.5	12.3
30°-40°	1207.0	12.0
40°-50°	923.9	9.2
50°-60°	615.6	6.1
60°-70°	335.9	3.3
70°-80°	140.0	1.4
80°-90°	41.3	0.4
90°-100°	306.9	3.1
100°-110°	844.3	8.4
110°-120°	871.5	8.7
120°-130°	698.2	6.9
130°-140°	548.4	5.5
140°-150°	420.3	4.2
150°-160°	302.2	3.0
160°-170°	184.8	1.8
170°-180°	62.3	0.6
0°-30°	2549.9	25.4
0°-40°	3756.9	37.4
0°-60°	5296.4	52.7
0°-90°	5813.6	57.8
90°-120°	2022.6	20.1
90°-150°	3689.5	36.7
90°-180°	4239.0	42.2
0°-180°	10052.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3988	3988	3988	3988	3988	
5°	3924	3884	3910	3919	3932	365
15°	3318	3306	3395	3488	3548	927
25°	2536	2543	2674	2791	2914	1166
35°	1792	1801	1922	2051	2196	1114
45°	1075	1095	1167	1256	1370	838
55°	618	644	681	707	765	560
65°	310	335	366	320	290	322
75°	156	156	142	97	66	166
85°	44	44	40	26	16	48
90°	1	5	10	12	12	5
95°	46	168	543	232	148	48
105°	151	232	930	1417	1322	159
115°	267	325	746	1486	1686	264
125°	368	420	677	1145	1341	328
135°	444	493	658	926	1048	343
145°	514	549	648	789	850	322
155°	581	600	644	709	730	267
165°	628	637	646	673	677	177
175°	651	652	648	656	655	62
180°	651	651	651	651	651	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3988.5	3988.5	3988.5	3988.5	3988.5
2.5°	3998.3	3962.7	3971.7	3971.4	3960.5
5°	3923.7	3884.4	3909.7	3918.8	3932.5
7.5°	3778.1	3748.3	3794.6	3828.8	3856.5
10°	3664.7	3639.0	3698.0	3747.8	3783.7
12.5°	3533.1	3511.5	3584.6	3651.4	3698.3
15°	3318.2	3306.2	3395.2	3487.6	3547.5
17.5°	3088.2	3082.4	3184.5	3292.3	3368.9
20°	2931.4	2929.7	3041.7	3154.0	3242.9
22.5°	2773.2	2777.0	2894.7	3011.4	3112.7
25°	2535.9	2542.7	2674.2	2790.7	2913.9
27.5°	2316.4	2319.5	2455.4	2578.4	2709.9
30°	2166.6	2175.2	2308.4	2435.8	2572.7
32.5°	2016.8	2026.7	2157.2	2288.8	2428.4
35°	1792.1	1800.7	1921.6	2050.9	2196.4
37.5°	1560.4	1572.0	1679.4	1801.7	1944.7
40°	1410.6	1427.7	1522.6	1637.8	1778.1
42.5°	1266.4	1287.6	1375.6	1484.9	1611.5
45°	1074.6	1095.1	1167.3	1255.7	1370.3
47.5°	909.4	933.0	988.5	1064.5	1162.4
50°	815.5	837.8	889.1	945.4	1037.8
52.5°	732.9	755.2	800.8	844.3	923.0
55°	617.8	643.5	680.8	706.6	764.8
57.5°	523.3	547.9	577.5	589.2	624.4
60°	460.3	487.7	514.5	513.2	532.0
62.5°	402.9	426.1	452.9	434.4	435.4
65°	309.8	335.4	365.8	319.6	290.5
67.5°	250.3	255.7	287.0	222.9	188.3
70°	222.3	222.3	231.0	172.6	143.5
72.5°	195.7	195.7	187.6	140.4	109.9
75°	155.8	155.8	141.8	97.3	66.5
77.5°	120.1	118.7	108.5	72.6	48.3
80°	96.3	96.3	87.5	57.3	38.5
82.5°	75.3	75.3	67.9	44.8	28.7
85°	43.8	43.8	40.3	26.0	15.8
87.5°	15.7	16.5	15.9	10.9	9.5
90°	1.4	5.4	9.7	12.5	12.5
92.5°	19.1	81.6	141.5	54.3	44.6
95°	45.7	167.5	542.7	232.0	148.1
97.5°	74.5	185.7	828.1	638.1	450.2
100°	95.5	197.0	917.8	926.4	755.9
102.5°	115.5	210.5	941.1	1149.3	992.9
105°	150.9	232.1	930.3	1416.8	1322.1
107.5°	184.7	258.9	877.4	1547.8	1576.0
110°	209.0	276.7	837.5	1580.4	1677.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	231.2	296.7	797.7	1559.4	1707.7
115°	267.2	325.4	746.2	1485.8	1686.1
117.5°	301.5	355.1	713.5	1382.6	1609.2
120°	322.6	374.0	699.1	1305.2	1539.4
122.5°	341.4	392.8	689.1	1237.4	1459.7
125°	368.2	419.7	677.0	1145.2	1341.4
127.5°	393.7	442.7	668.9	1068.2	1240.4
130°	407.0	457.1	664.5	1022.5	1179.5
132.5°	422.5	472.6	661.2	982.2	1124.1
135°	444.4	493.1	657.6	926.1	1048.0
137.5°	464.9	510.1	654.5	880.8	981.2
140°	480.4	522.3	653.4	850.7	941.4
142.5°	493.7	532.4	651.2	823.8	901.5
145°	513.6	548.8	647.9	789.1	850.0
147.5°	534.9	565.2	646.2	758.4	807.1
150°	548.2	575.3	645.1	741.5	779.4
152.5°	560.4	585.3	644.0	726.9	758.4
155°	581.4	600.4	643.7	709.3	729.6
157.5°	596.7	612.1	643.7	694.7	708.8
160°	607.7	619.9	643.7	686.9	697.7
162.5°	616.6	626.6	644.8	680.2	688.9
165°	628.5	636.6	646.5	672.9	677.0
167.5°	636.8	643.0	647.9	666.7	667.8
170°	642.3	646.4	647.9	664.5	664.5
172.5°	646.8	648.7	647.9	661.1	660.1
175°	650.6	652.0	647.9	656.2	654.8
177.5°	651.8	651.8	647.3	653.9	651.8
180°	650.6	650.6	650.6	650.6	650.6

(END OF REPORT)