

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: P519230

Luminaire Tested: **SQ4-WB-075U-100D-935-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519230  
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-100D-935-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

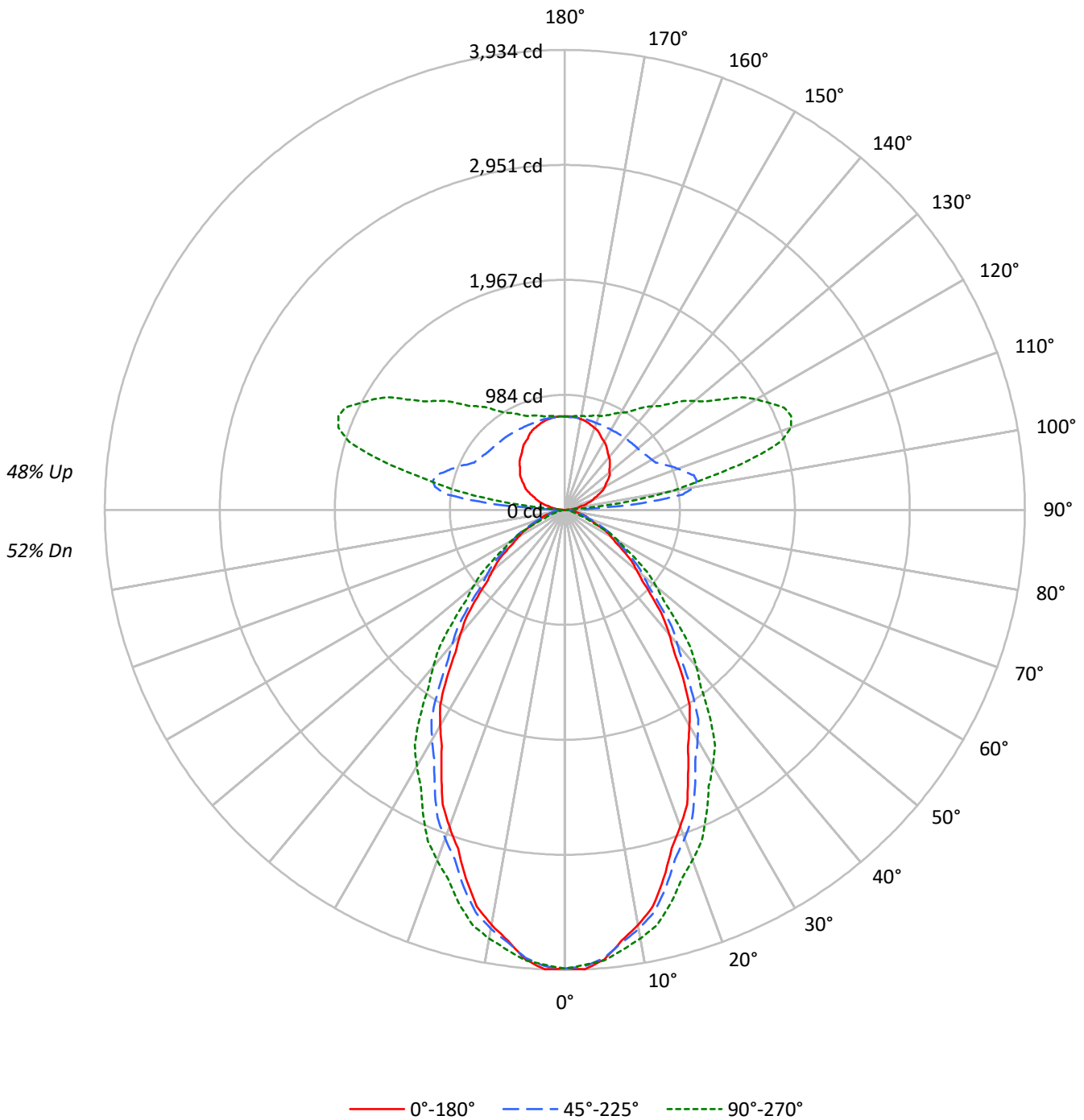
Lumens per Lamp: N/A  
Luminaire Lumens: 10922.6 lumens  
Efficiency: N/A  
Efficacy: 100.9 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 108.3  
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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58	52
1	99	96	92	89	92	89	86	83	76	74	72	64	63	61	53	52	52	46
2	92	85	79	75	85	79	74	70	68	65	62	58	55	53	48	47	45	41
3	84	76	69	64	78	71	65	60	61	57	53	52	49	47	44	42	40	36
4	78	68	61	55	72	64	57	52	55	50	47	48	44	41	40	38	36	32
5	72	61	54	48	67	57	51	46	50	45	41	43	40	37	37	34	32	29
6	67	56	48	43	62	52	45	41	46	41	37	40	36	33	34	31	29	26
7	62	51	43	38	58	48	41	36	42	37	33	37	33	30	32	29	26	24
8	58	46	39	34	54	44	37	33	39	33	30	34	30	27	29	26	24	22
9	54	43	36	31	51	40	34	30	36	31	27	31	27	24	27	24	22	20
10	51	39	33	28	47	37	31	27	33	28	25	29	25	22	26	23	20	18

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

	0°	45°	90°
0°	18102	18102	18102
5°	17876	17812	17916
10°	16889	17042	17438
15°	15591	15953	16668
20°	14158	14691	15663
25°	12699	13391	14592
30°	11355	12098	13483
35°	9929	10646	12169
40°	8357	9021	10535
45°	6897	7492	8796
50°	5759	6277	7327
55°	4888	5387	6051
60°	4178	4670	4829
65°	3327	3928	3120
70°	2950	3066	1904
75°	2731	2486	1166
80°	2516	2287	1007
85°	2276	2096	820



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	359.9	3.3
10°-20°	936.2	8.6
20°-30°	1212.6	11.1
30°-40°	1187.5	10.9
40°-50°	908.9	8.3
50°-60°	605.7	5.5
60°-70°	330.5	3.0
70°-80°	137.7	1.3
80°-90°	41.0	0.4
90°-100°	376.7	3.4
100°-110°	1036.3	9.5
110°-120°	1069.6	9.8
120°-130°	857.0	7.8
130°-140°	673.1	6.2
140°-150°	515.8	4.7
150°-160°	370.9	3.4
160°-170°	226.8	2.1
170°-180°	76.4	0.7
0°-30°	2508.7	23.0
0°-40°	3696.2	33.8
0°-60°	5210.8	47.7
0°-90°	5720.0	52.4
90°-120°	2482.6	22.7
90°-150°	4528.5	41.5
90°-180°	5203.0	47.6
0°-180°	10922.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3924	3924	3924	3924	3924	
5°	3860	3822	3846	3855	3869	359
15°	3265	3253	3340	3431	3490	912
25°	2495	2502	2631	2746	2867	1147
35°	1763	1772	1890	2018	2161	1096
45°	1057	1077	1148	1235	1348	824
55°	608	633	670	695	752	551
65°	305	330	360	314	286	317
75°	153	153	140	96	65	164
85°	43	43	40	26	16	47
90°	2	7	12	15	15	6
95°	56	206	666	285	182	59
105°	185	285	1142	1739	1623	195
115°	328	399	916	1824	2070	324
125°	452	515	831	1406	1646	403
135°	545	605	807	1137	1286	421
145°	630	674	795	968	1043	395
155°	714	737	790	870	896	328
165°	771	781	794	826	831	217
175°	799	800	795	805	804	76
180°	799	799	799	799	799	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3924.0	3924.0	3924.0	3924.0	3924.0
2.5°	3933.6	3898.6	3907.5	3907.2	3896.5
5°	3860.3	3821.6	3846.5	3855.4	3868.9
7.5°	3717.0	3687.7	3733.2	3766.9	3794.2
10°	3605.5	3580.2	3638.2	3687.2	3722.6
12.5°	3476.0	3454.8	3526.6	3592.4	3638.5
15°	3264.6	3252.8	3340.3	3431.2	3490.1
17.5°	3038.3	3032.6	3133.0	3239.1	3314.5
20°	2884.0	2882.3	2992.5	3103.0	3190.5
22.5°	2728.4	2732.1	2847.9	2962.7	3062.4
25°	2494.9	2501.6	2630.9	2745.6	2866.8
27.5°	2279.0	2282.0	2415.7	2536.8	2666.0
30°	2131.6	2140.0	2271.1	2396.4	2531.1
32.5°	1984.2	1994.0	2122.3	2251.8	2389.2
35°	1763.1	1771.6	1890.5	2017.8	2160.9
37.5°	1535.2	1546.6	1652.2	1772.5	1913.3
40°	1387.8	1404.6	1498.0	1611.3	1749.4
42.5°	1245.9	1266.8	1353.3	1460.9	1585.4
45°	1057.2	1077.4	1148.4	1235.4	1348.2
47.5°	894.7	917.9	972.5	1047.3	1143.6
50°	802.4	824.2	874.7	930.1	1021.0
52.5°	721.1	743.0	787.9	830.6	908.1
55°	607.8	633.1	669.8	695.2	752.4
57.5°	514.8	539.1	568.2	579.7	614.3
60°	452.8	479.8	506.2	504.9	523.4
62.5°	396.4	419.3	445.6	427.4	428.4
65°	304.8	330.0	359.9	314.4	285.8
67.5°	246.2	251.6	282.4	219.3	185.3
70°	218.7	218.7	227.3	169.8	141.2
72.5°	192.5	192.5	184.6	138.1	108.1
75°	153.2	153.2	139.5	95.7	65.4
77.5°	118.1	116.8	106.8	71.4	47.5
80°	94.7	94.7	86.1	56.4	37.9
82.5°	74.0	74.0	66.8	44.1	28.2
85°	43.0	43.0	39.6	25.6	15.5
87.5°	15.5	16.5	16.2	11.3	9.9
90°	1.7	6.7	11.9	15.3	15.3
92.5°	23.4	100.2	173.7	66.7	54.7
95°	56.1	205.6	666.1	284.8	181.8
97.5°	91.4	228.0	1016.4	783.2	552.6
100°	117.2	241.8	1126.5	1137.1	927.7
102.5°	141.7	258.3	1155.1	1410.7	1218.6
105°	185.2	284.9	1141.8	1739.0	1622.7
107.5°	226.7	317.7	1076.9	1899.8	1934.3
110°	256.6	339.6	1028.0	1939.7	2059.4

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	283.8	364.2	979.0	1914.0	2096.1
115°	327.9	399.4	915.8	1823.7	2069.6
117.5°	370.1	435.9	875.7	1697.0	1975.1
120°	395.9	459.0	858.1	1602.0	1889.5
122.5°	419.0	482.1	845.8	1518.8	1791.6
125°	452.0	515.1	830.9	1405.6	1646.5
127.5°	483.2	543.4	821.0	1311.1	1522.4
130°	499.5	561.0	815.6	1255.0	1447.7
132.5°	518.6	580.1	811.5	1205.6	1379.7
135°	545.4	605.2	807.1	1136.7	1286.3
137.5°	570.6	626.1	803.4	1081.1	1204.4
140°	589.6	641.1	802.0	1044.1	1155.4
142.5°	605.9	653.4	799.3	1011.1	1106.5
145°	630.4	673.6	795.2	968.5	1043.3
147.5°	656.6	693.8	793.2	930.8	990.6
150°	672.9	706.1	791.8	910.1	956.6
152.5°	687.8	718.4	790.4	892.2	930.8
155°	713.6	736.9	790.1	870.5	895.5
157.5°	732.3	751.3	790.1	852.7	870.0
160°	745.9	760.9	790.1	843.1	856.4
162.5°	756.8	769.1	791.5	834.9	845.5
165°	771.4	781.4	793.5	825.9	830.9
167.5°	781.6	789.2	795.2	818.3	819.7
170°	788.4	793.4	795.2	815.6	815.6
172.5°	793.8	796.2	795.2	811.5	810.2
175°	798.6	800.3	795.2	805.4	803.7
177.5°	800.0	800.0	794.5	802.6	800.0
180°	798.6	798.6	798.6	798.6	798.6

(END OF REPORT)