

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: P519226

Luminaire Tested: **SQ4-WB-075U-100D-930-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519226  
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-930-1D-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: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

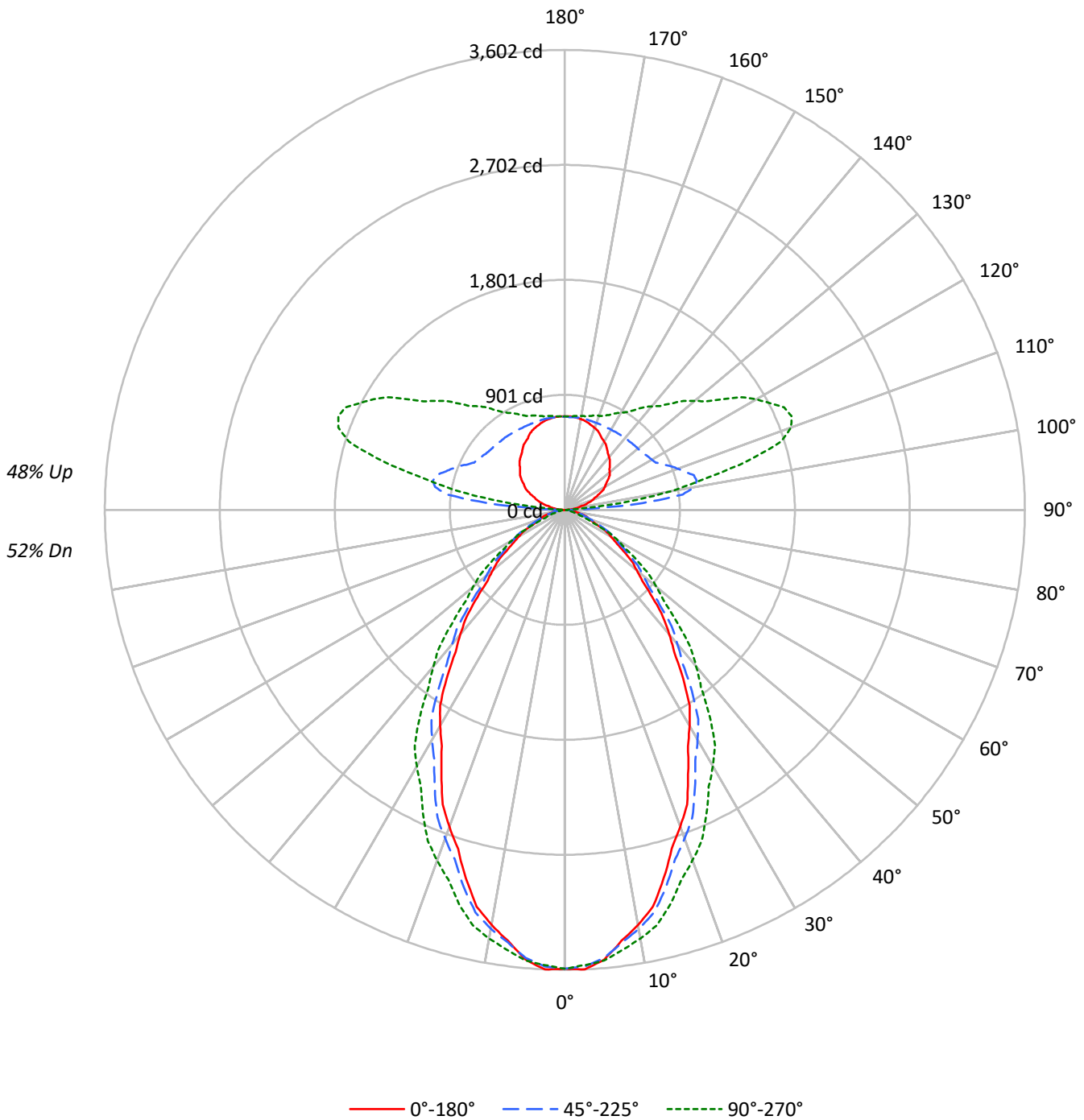
Lumens per Lamp: N/A  
Luminaire Lumens: 10003.2 lumens  
Efficiency: N/A  
Efficacy: 92.4 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

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°	16578	16578	16578
5°	16371	16313	16408
10°	15467	15608	15970
15°	14279	14610	15265
20°	12967	13454	14345
25°	11630	12264	13364
30°	10399	11079	12347
35°	9093	9750	11145
40°	7654	8262	9648
45°	6316	6862	8055
50°	5273	5749	6711
55°	4477	4933	5542
60°	3826	4277	4423
65°	3047	3598	2858
70°	2702	2807	1744
75°	2501	2276	1068
80°	2303	2093	922
85°	2085	1921	752



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	329.6	3.3
10°-20°	857.4	8.6
20°-30°	1110.6	11.1
30°-40°	1087.5	10.9
40°-50°	832.4	8.3
50°-60°	554.7	5.5
60°-70°	302.7	3.0
70°-80°	126.1	1.3
80°-90°	37.6	0.4
90°-100°	344.9	3.4
100°-110°	949.1	9.5
110°-120°	979.6	9.8
120°-130°	784.8	7.8
130°-140°	616.4	6.2
140°-150°	472.4	4.7
150°-160°	339.7	3.4
160°-170°	207.7	2.1
170°-180°	70.0	0.7
0°-30°	2297.6	23.0
0°-40°	3385.1	33.8
0°-60°	4772.2	47.7
0°-90°	5238.5	52.4
90°-120°	2273.6	22.7
90°-150°	4147.3	41.5
90°-180°	4765.0	47.6
0°-180°	10003.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3594	3594	3594	3594	3594	
5°	3535	3500	3523	3531	3543	329
15°	2990	2979	3059	3142	3196	835
25°	2285	2291	2410	2514	2626	1051
35°	1615	1622	1731	1848	1979	1004
45°	968	987	1052	1131	1235	755
55°	557	580	613	637	689	505
65°	279	302	330	288	262	290
75°	140	140	128	88	60	150
85°	39	39	36	23	14	43
90°	2	6	11	14	14	5
95°	51	188	610	261	166	54
105°	170	261	1046	1593	1486	179
115°	300	366	839	1670	1895	296
125°	414	472	761	1287	1508	369
135°	500	554	739	1041	1178	385
145°	577	617	728	887	956	362
155°	654	675	724	797	820	300
165°	706	716	727	756	761	199
175°	731	733	728	738	736	69
180°	731	731	731	731	731	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3593.7	3593.7	3593.7	3593.7	3593.7
2.5°	3602.5	3570.5	3578.6	3578.3	3568.5
5°	3535.4	3499.9	3522.7	3530.9	3543.2
7.5°	3404.2	3377.3	3419.0	3449.8	3474.8
10°	3302.0	3278.9	3331.9	3376.8	3409.2
12.5°	3183.4	3164.0	3229.8	3290.0	3332.3
15°	2989.8	2979.0	3059.1	3142.4	3196.3
17.5°	2782.6	2777.3	2869.3	2966.4	3035.5
20°	2641.3	2639.7	2740.6	2841.8	2922.0
22.5°	2498.7	2502.1	2608.2	2713.4	2804.6
25°	2284.9	2291.1	2409.5	2514.5	2625.5
27.5°	2087.2	2089.9	2212.4	2323.2	2441.6
30°	1952.2	1959.9	2079.9	2194.7	2318.0
32.5°	1817.2	1826.1	1943.7	2062.3	2188.1
35°	1614.7	1622.4	1731.4	1847.9	1979.0
37.5°	1405.9	1416.4	1513.2	1623.3	1752.2
40°	1271.0	1286.4	1371.9	1475.7	1602.1
42.5°	1141.0	1160.1	1239.4	1337.9	1452.0
45°	968.2	986.7	1051.8	1131.4	1234.7
47.5°	819.3	840.6	890.6	959.2	1047.4
50°	734.8	754.9	801.1	851.8	935.1
52.5°	660.4	680.4	721.6	760.7	831.6
55°	556.6	579.8	613.4	636.7	689.1
57.5°	471.5	493.7	520.4	530.9	562.6
60°	414.7	439.4	463.6	462.4	479.4
62.5°	363.0	384.0	408.1	391.4	392.3
65°	279.1	302.2	329.6	288.0	261.8
67.5°	225.5	230.4	258.6	200.8	169.7
70°	200.3	200.3	208.1	155.5	129.3
72.5°	176.3	176.3	169.0	126.5	99.0
75°	140.3	140.3	127.7	87.7	59.9
77.5°	108.2	106.9	97.8	65.4	43.5
80°	86.7	86.7	78.8	51.7	34.7
82.5°	67.8	67.8	61.2	40.4	25.9
85°	39.4	39.4	36.3	23.4	14.2
87.5°	14.2	15.1	14.8	10.3	9.1
90°	1.6	6.1	10.9	14.0	14.0
92.5°	21.5	91.8	159.0	61.1	50.1
95°	51.4	188.3	610.0	260.8	166.5
97.5°	83.7	208.8	930.9	717.2	506.1
100°	107.4	221.5	1031.7	1041.4	849.6
102.5°	129.8	236.6	1057.9	1291.9	1116.1
105°	169.6	260.9	1045.7	1592.6	1486.1
107.5°	207.6	291.0	986.3	1739.8	1771.5
110°	235.0	311.1	941.5	1776.5	1886.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	259.9	333.5	896.6	1752.9	1919.6
115°	300.3	365.8	838.8	1670.2	1895.4
117.5°	338.9	399.2	802.0	1554.1	1808.8
120°	362.6	420.4	785.8	1467.2	1730.4
122.5°	383.7	441.6	774.6	1390.9	1640.8
125°	413.9	471.7	760.9	1287.3	1507.9
127.5°	442.6	497.6	751.9	1200.7	1394.3
130°	457.5	513.8	746.9	1149.3	1325.8
132.5°	474.9	531.2	743.2	1104.1	1263.6
135°	499.5	554.3	739.2	1041.0	1178.0
137.5°	522.5	573.4	735.7	990.1	1103.0
140°	540.0	587.1	734.5	956.2	1058.2
142.5°	554.9	598.4	732.0	926.0	1013.3
145°	577.3	616.9	728.3	887.0	955.5
147.5°	601.3	635.4	726.4	852.4	907.2
150°	616.2	646.7	725.2	833.5	876.1
152.5°	629.9	657.9	723.9	817.1	852.4
155°	653.6	674.9	723.6	797.3	820.1
157.5°	670.7	688.0	723.6	780.9	796.7
160°	683.1	696.8	723.6	772.1	784.3
162.5°	693.1	704.4	724.8	764.6	774.3
165°	706.5	715.6	726.7	756.4	760.9
167.5°	715.8	722.8	728.3	749.5	750.7
170°	722.0	726.6	728.3	746.9	746.9
172.5°	727.0	729.2	728.3	743.2	742.0
175°	731.4	732.9	728.3	737.6	736.0
177.5°	732.6	732.6	727.6	735.1	732.6
180°	731.4	731.4	731.4	731.4	731.4

(END OF REPORT)