

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: P519169

Luminaire Tested: **SQ4-WB-075U-050D-835-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519169  
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-050D-835-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

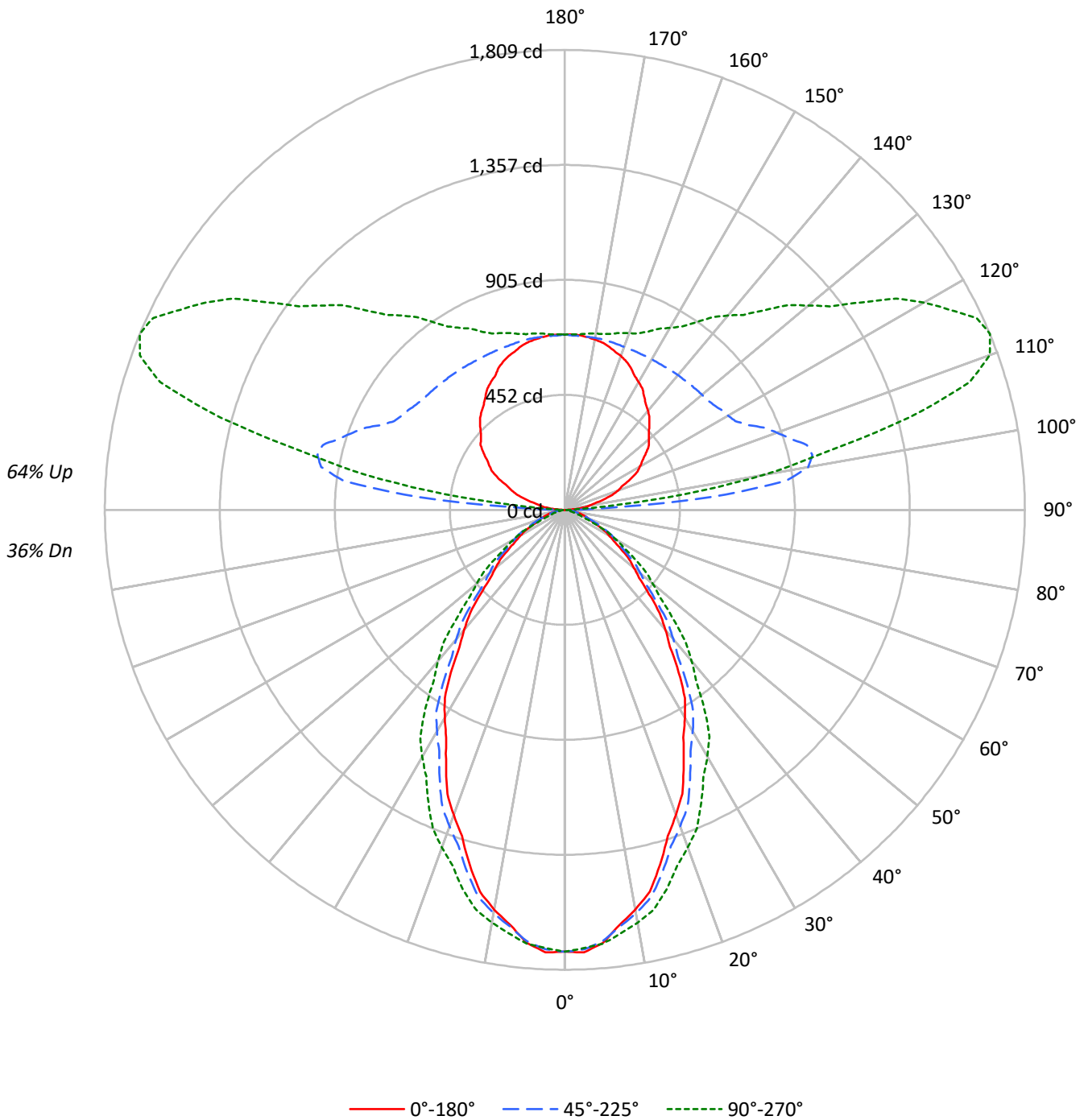
Lumens per Lamp: N/A  
Luminaire Lumens: 7024.9 lumens  
Efficiency: N/A  
Efficacy: 129.4 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 54.3  
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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	43	43	43	36
1	95	92	88	85	86	83	80	78	67	65	64	53	52	50	40	39	38	32
2	88	81	75	71	79	74	69	65	60	57	54	47	45	43	36	35	33	28
3	80	72	65	60	73	66	60	55	54	50	46	43	40	38	33	31	29	25
4	74	64	57	51	67	59	52	48	48	44	40	39	36	33	30	28	26	22
5	68	58	50	45	62	53	46	41	44	39	35	35	32	29	27	25	23	20
6	63	52	44	39	57	48	41	36	40	35	31	32	29	26	25	23	21	18
7	58	47	40	35	53	43	37	32	36	31	28	29	26	23	23	21	19	16
8	54	43	36	31	49	40	33	29	33	28	25	27	24	21	21	19	17	15
9	51	39	32	28	46	36	30	26	31	26	23	25	22	19	20	18	16	14
10	47	36	29	25	43	33	27	23	28	24	20	23	20	18	19	16	15	13

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

	0°	45°	90°
0°	10689	10689	10689
5°	10556	10519	10580
10°	9973	10064	10297
15°	9207	9420	9843
20°	8361	8675	9250
25°	7499	7908	8617
30°	6705	7144	7962
35°	5864	6287	7186
40°	4935	5327	6221
45°	4073	4424	5194
50°	3401	3707	4327
55°	2887	3181	3573
60°	2468	2758	2852
65°	1965	2320	1843
70°	1741	1811	1124
75°	1614	1469	689
80°	1484	1350	595
85°	1348	1235	487



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.4	2.3
10°-20°	414.6	5.9
20°-30°	537.1	7.6
30°-40°	525.9	7.5
40°-50°	402.6	5.7
50°-60°	268.3	3.8
60°-70°	146.4	2.1
70°-80°	61.0	0.9
80°-90°	19.0	0.3
90°-100°	325.1	4.6
100°-110°	894.5	12.7
110°-120°	923.3	13.1
120°-130°	739.7	10.5
130°-140°	581.0	8.3
140°-150°	445.2	6.3
150°-160°	320.1	4.6
160°-170°	195.7	2.8
170°-180°	66.0	0.9
0°-30°	1111.1	15.8
0°-40°	1637.0	23.3
0°-60°	2307.8	32.9
0°-90°	2534.2	36.1
90°-120°	2142.9	30.5
90°-150°	3908.8	55.6
90°-180°	4491.0	63.9
0°-180°	7024.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1738	1738	1738	1738	1738	
5°	1710	1692	1704	1708	1714	159
15°	1446	1441	1479	1520	1546	404
25°	1105	1108	1165	1216	1270	508
35°	781	785	837	894	957	485
45°	468	477	509	547	597	365
55°	269	280	297	308	333	244
65°	135	146	159	139	127	140
75°	68	68	62	42	29	72
85°	19	19	18	11	7	21
90°	2	6	10	13	13	4
95°	48	178	575	246	157	51
105°	160	246	986	1501	1401	169
115°	283	345	790	1574	1786	279
125°	390	445	717	1213	1421	348
135°	471	522	697	981	1110	363
145°	544	581	686	836	900	341
155°	616	636	682	751	773	283
165°	666	674	685	713	717	188
175°	689	691	686	695	694	65
180°	689	689	689	689	689	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1737.9	1737.9	1737.9	1737.9	1737.9
2.5°	1742.2	1726.7	1730.6	1730.5	1725.7
5°	1709.7	1692.5	1703.6	1707.5	1713.5
7.5°	1646.2	1633.3	1653.4	1668.3	1680.4
10°	1596.8	1585.6	1611.3	1633.0	1648.7
12.5°	1539.5	1530.1	1561.9	1591.0	1611.5
15°	1445.8	1440.6	1479.4	1519.6	1545.7
17.5°	1345.6	1343.1	1387.6	1434.6	1468.0
20°	1277.3	1276.6	1325.4	1374.3	1413.1
22.5°	1208.4	1210.0	1261.3	1312.2	1356.3
25°	1105.0	1108.0	1165.2	1216.0	1269.7
27.5°	1009.3	1010.7	1069.9	1123.5	1180.8
30°	944.1	947.8	1005.8	1061.3	1121.0
32.5°	878.8	883.1	940.0	997.3	1058.2
35°	780.9	784.6	837.3	893.7	957.0
37.5°	679.9	685.0	731.8	785.0	847.4
40°	614.6	622.1	663.4	713.6	774.8
42.5°	551.8	561.0	599.4	647.0	702.2
45°	468.2	477.2	508.6	547.1	597.1
47.5°	396.2	406.5	430.7	463.9	506.5
50°	355.4	365.1	387.4	411.9	452.2
52.5°	319.4	329.1	349.0	367.9	402.2
55°	269.2	280.4	296.6	307.9	333.2
57.5°	228.0	238.7	251.7	256.7	272.1
60°	200.6	212.5	224.2	223.6	231.8
62.5°	175.5	185.7	197.4	189.3	189.7
65°	135.0	146.2	159.4	139.3	126.6
67.5°	109.0	111.4	125.1	97.1	82.1
70°	96.8	96.8	100.7	75.2	62.5
72.5°	85.3	85.3	81.7	61.2	47.9
75°	67.9	67.9	61.8	42.4	29.0
77.5°	52.3	51.7	47.3	31.6	21.0
80°	41.9	41.9	38.1	25.0	16.8
82.5°	32.8	32.8	29.6	19.5	12.5
85°	19.1	19.1	17.5	11.3	6.9
87.5°	7.0	7.9	8.2	6.3	5.7
90°	1.5	5.8	10.3	13.2	13.2
92.5°	20.2	86.5	149.9	57.6	47.2
95°	48.4	177.5	574.9	245.8	156.9
97.5°	78.9	196.8	877.3	676.0	477.0
100°	101.2	208.8	972.4	981.5	800.8
102.5°	122.3	223.0	997.0	1217.7	1051.9
105°	159.9	245.9	985.6	1501.0	1400.6
107.5°	195.7	274.2	929.6	1639.8	1669.6
110°	221.5	293.2	887.3	1674.3	1777.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	244.9	314.3	845.1	1652.1	1809.3
115°	283.1	344.7	790.5	1574.1	1786.4
117.5°	319.4	376.2	755.9	1464.8	1704.8
120°	341.7	396.2	740.7	1382.8	1630.9
122.5°	361.7	416.2	730.1	1311.0	1546.4
125°	390.1	444.6	717.2	1213.2	1421.2
127.5°	417.1	469.0	708.7	1131.7	1314.1
130°	431.2	484.3	704.0	1083.2	1249.6
132.5°	447.6	500.7	700.5	1040.6	1190.9
135°	470.8	522.4	696.7	981.2	1110.3
137.5°	492.5	540.4	693.4	933.2	1039.6
140°	508.9	553.4	692.3	901.2	997.3
142.5°	523.0	564.0	689.9	872.8	955.1
145°	544.1	581.4	686.4	836.0	900.5
147.5°	566.7	598.8	684.6	803.4	855.1
150°	580.8	609.5	683.5	785.6	825.7
152.5°	593.7	620.1	682.3	770.2	803.4
155°	616.0	636.1	682.0	751.4	772.9
157.5°	632.1	648.5	682.0	736.0	750.9
160°	643.9	656.8	682.0	727.7	739.2
162.5°	653.2	663.9	683.2	720.6	729.8
165°	665.9	674.5	684.9	712.9	717.2
167.5°	674.7	681.3	686.4	706.4	707.5
170°	680.5	684.8	686.4	704.0	704.0
172.5°	685.2	687.2	686.4	700.4	699.3
175°	689.3	690.8	686.4	695.2	693.7
177.5°	690.5	690.5	685.8	692.8	690.5
180°	689.3	689.3	689.3	689.3	689.3

(END OF REPORT)